

FCC Test Report

Report No.: AGC02762220812FE08

FCC ID : 2A8IR-HOT

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : GSM Feature Phone

BRAND NAME : HOLA, SEALOVE

MODEL NAME : Hot, Rio, Maya, Tex, Sea, Love, BOX, EX

APPLICANT : Shenzhen Shenglongwei Technology Co., Ltd

DATE OF ISSUE : Sep. 16, 2022

STANDARD(S) : FCC Part 22H & 24E

REPORT VERSION : V1.0

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



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Sep. 16, 2022 | Valid | Initial Release |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

TABLE OF CONTENTS

| | |
|---|-----------|
| 1. GENERAL INFORMATION | 5 |
| 2. PRODUCT INFORMATION | 6 |
| 2.1 PRODUCT TECHNICAL DESCRIPTION | 6 |
| 2.2 RELATED SUBMITTAL(S) / GRANT (S)..... | 7 |
| 2.3 TEST METHODOLOGY | 7 |
| 2.4 DEVICE CAPABILITIES..... | 7 |
| 2.5 SPECIAL ACCESSORIES..... | 7 |
| 2.6 EQUIPMENT MODIFICATIONS | 7 |
| 2.7 EMISSION DESIGNATOR..... | 7 |
| 3. TEST ENVIRONMENT | 9 |
| 3.1 ADDRESS OF THE TEST LABORATORY | 9 |
| 3.2 TEST FACILITY | 9 |
| 3.3 ENVIRONMENTAL CONDITIONS..... | 10 |
| 3.4 MEASUREMENT UNCERTAINTY..... | 10 |
| 3.5 LIST OF TEST EQUIPMENT | 11 |
| 4. SYSTEM TEST CONFIGURATION..... | 13 |
| 4.1 EUT CONFIGURATION | 13 |
| 4.2 EUT EXERCISE..... | 13 |
| 4.3 CONFIGURATION OF EUT SYSTEM | 13 |
| 4.4 EQUIPMENT USED IN TESTED SYSTEM | 13 |
| 5. SUMMARY OF TEST RESULTS | 14 |
| 5.1 TEST CONDITION : CONDUCTED TEST..... | 14 |
| 5.2 TEST CONDITION : RADIATED TEST | 14 |
| 6. DESCRIPTION OF TEST MODES | 15 |
| 7. CONDUCTED OUTPUT POWER..... | 17 |
| 7.1 PROVISIONS APPLICABLE..... | 17 |
| 7.2 MEASUREMENT METHOD | 17 |
| 7.3 MEASUREMENT SETUP | 17 |
| 7.4 MEASUREMENT RESULT | 18 |
| 8. RADIATED OUTPUT POWER | 19 |
| 8.1 PROVISIONS APPLICABLE..... | 19 |
| 8.2 MEASUREMENT METHOD | 19 |
| 8.3 MEASUREMENT SETUP | 20 |
| 8.4 MEASUREMENT RESULT | 22 |
| 9. PEAK-TO-AVERAGE RATIO..... | 23 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

| | |
|---|-----------|
| 9.1 PROVISIONS APPLICABLE..... | 23 |
| 9.2 MEASUREMENT METHOD | 23 |
| 9.3 MEASUREMENT SETUP | 24 |
| 9.4 MEASUREMENT RESULT | 25 |
| 10. OCCUPIED BANDWIDTH..... | 26 |
| 10.1 PROVISIONS APPLICABLE..... | 26 |
| 10.2 MEASUREMENT METHOD | 26 |
| 10.3 MEASUREMENT SETUP | 26 |
| 10.4 MEASUREMENT RESULT | 27 |
| 11. BAND EDGE EMISSIONS AT ANTENNA TERMINAL..... | 30 |
| 11.1 MEASUREMENT OVERVIEW..... | 30 |
| 11.2 MEASUREMENT METHOD..... | 30 |
| 11.3 MEASUREMENT METHOD..... | 30 |
| 11.4 MEASUREMENT RESULT | 31 |
| 12. SPURIOUS EMISSIONS AT ANTENNA TERMINAL | 33 |
| 12.1 PROVISIONS APPLICABLE..... | 33 |
| 12.2 MEASUREMENT METHOD | 33 |
| 12.3 MEASUREMENT SETUP | 33 |
| 12.4 MEASUREMENT RESULT | 34 |
| 13. RADIATED SPURIOUS EMISSION..... | 40 |
| 13.1. PROVISIONS APPLICABLE..... | 40 |
| 13.2. MEASUREMENT PROCEDURE..... | 40 |
| 13.3. MEASUREMENT SETUP | 41 |
| 13.4 MEASUREMENT RESULT | 42 |
| 14. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE | 46 |
| 14.1 PROVISIONS APPLICABLE..... | 46 |
| 14.2 MEASUREMENT METHOD | 46 |
| 14.3 MEASUREMENT SETUP | 47 |
| 14.4 MEASUREMENT RESULT | 48 |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP | 54 |
| APPENDIX B: PHOTOGRAPHS OF EUT | 54 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

1. GENERAL INFORMATION

| | |
|---------------------------------|--|
| Applicant | Shenzhen Shenglongwei Technology Co., Ltd |
| Address | C703, City Shanhai center, Bantian Street,Longgang District, Shenzhen City,P.R.C |
| Manufacturer | Shenzhen Shenglongwei Technology Co., Ltd |
| Address | C703, City Shanhai center, Bantian Street,Longgang District, Shenzhen City,P.R.C |
| Factory | Shenzhen Shenglongwei Technology Co., Ltd |
| Address | C703, City Shanhai center, Bantian Street,Longgang District, Shenzhen City,P.R.C |
| Product Designation | GSM Feature Phone |
| Brand Name | HOLA, SEALOVE |
| Test Model | Hot |
| Series Model | Rio, Maya, Tex, Sea, Love, BOX, EX |
| Difference Description | All the same except the model name and brand name HOLA is corresponding Hot, Rio, Maya SEALOVE is corresponding Sea, Love, BOX, EX |
| Date of test | Aug. 29, 2022~Sep. 15, 2022 |
| Deviation | No any deviation from the test method. |
| Condition of Test Sample | Normal |

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22H, 24E. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Jack Gui
(Project Engineer)

Sep. 15, 2022

Reviewed By



Calvin Liu
(Reviewer)

Sep. 16, 2022

Approved By



Max Zhang
Authorized Officer

Sep. 16, 2022

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

A major technical description of EUT is described as following:

| | | | |
|-------------------------|--|----------------|--|
| Product Designation: | GSM Feature Phone | | |
| Hardware Version: | M399_MB_V1.0 | | |
| Software Version: | M399_128X160_SLW_HOT_V01_20220826 | | |
| Support Networks: | GSM, GPRS | | |
| Frequency Bands: | <input checked="" type="checkbox"/> GPRS 850 <input checked="" type="checkbox"/> PCS1900 (U.S. Bands) <input type="checkbox"/> GSM 900 <input type="checkbox"/> DCS 1800 (Non-U.S. Bands) | | |
| Type of Modulation: | GMSK,8PSK Modulation For GSM/GPRS | | |
| Frequency Range: | GSM/GPRS 850: 824.2MHz-848.8 MHz GSM/GPRS 1900: 1850.2MHz-1909.8 MHz | | |
| Emission Designator: | GSM/GPRS 850: | 249KGXW | |
| | GSM/GPRS 1900: | 249KGXW | |
| Antenna gain: | GSM850:-0.3dBi | PCS1900:1.0dBi | |
| Power Supply: | DC 3.7V by Built-in Li-ion Battery | | |
| Battery parameter: | DC 3.7V 1000mAh | | |
| Dual Card: | GSM Card Slot | | |
| Extreme Vol. Limits: | DC3.15V to 4.20V (Normal: DC 3.7V) | | |
| Extreme Temp. Tolerance | -30 °C to +50 °C | | |
| Temperature range: | -20°C to +50°C | | |

GSM/WCDMA SLOT 1:

| | Maximum ERP/EIRP (dBm) | Max. Average Burst Power (dBm) |
|----------|---------------------------|-----------------------------------|
| GSM 850 | 30.72 | 33.15 |
| PCS 1900 | 28.33 | 30.20 |

GSM/WCDMA SLOT 2:

| | Maximum ERP/EIRP (dBm) | Max. Average Burst Power (dBm) |
|----------|---------------------------|-----------------------------------|
| GSM 850 | 30.21 | 32.01 |
| PCS 1900 | 27.89 | 29.85 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2A8IR-HOT**, filing to comply with the FCC Part 22H&24E requirements.

2.3 TEST METHODOLOGY

The tests were performed according to following standards:

| No. | Identity | Document Title |
|-----|---------------------|--|
| 1 | 47 CFR FCC Part 2 | Frequency allocations and radio treaty matters, general rules and regulations. |
| 2 | 47 CFR FCC Part 22 | Public Mobile Services. |
| 3 | 47 CFR FCC Part 24 | Personal Communications Services. |
| 4 | ANSI C63.26-2015 | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services |
| 5 | ANSI/TIA-603-E-2016 | Land Mobile FM or PM Communications Equipment Measurement and Performance Standards |
| 6 | KDB 971168 | D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters. |

2.4 DEVICE CAPABILITIES

850/1900 GSM/GPRS.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.5 SPECIAL ACCESSORIES

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7 EMISSION DESIGNATOR

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

GSM Emission Designator**Emission Designator = 249KGXW**

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator**Emission Designator = 249KG7W**

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator**Emission Designator = 4M17F9W**

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation**Emission Designator = 4M48G7D**

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation**Emission Designator = 4M48W7D**

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

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

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

3.2 TEST FACILITY

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

CNAS-Lab Code: L5488

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

A2LA-Lab Cert. No.: 5054.02

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

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

3.3 ENVIRONMENTAL CONDITIONS

| | NORMAL CONDITIONS | EXTREME CONDITIONS |
|--|-------------------|--------------------|
| Temperature range | 15~35°C | -30°C~50°C |
| Humidity range | 20 % to 75 %. | 20 % to 75 %. |
| Pressure range | 86-106kPa | 86-106kPa |
| Power supply | DC 3.7V | DC3.15V or 4.2V |
| Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer. | | |

3.4 MEASUREMENT UNCERTAINTY

| Test | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Transmitter power conducted | ±0.57 dB | (1) |
| Transmitter power Radiated | ±2.20 dB | (1) |
| Conducted spurious emission 9KHz-40 GHz | ±2.20 dB | (1) |
| Occupied Bandwidth | ±0.01ppm | (1) |
| Radiated Emission 30~1000MHz | ±4.10dB | (1) |
| Radiated Emission Above 1GHz | ±4.32dB | (1) |
| Conducted Disturbance0.15~30MHz | ±3.20dB | (1) |
| Radio Frequency | ± 6.5 x 10-8 | (1) |
| RF Power, Conducted | ± 0.9 dB | (1) |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

3.5 LIST OF TEST EQUIPMENT

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|--------------|-------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESPI | 101206 | Mar. 28, 2022 | Mar. 27, 2023 |
| LISN | R&S | ESH2-Z5 | 100086 | Jun. 08, 2022 | Jun. 07, 2023 |
| TEST RECEIVER | R&S | ESCI | 10096 | Mar. 28, 2022 | Mar. 27, 2023 |
| EXA Signal Analyzer | Agilent | N9010A | MY53470504 | Nov. 17, 2021 | Nov. 16, 2022 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 19, 2021 | Sep. 18, 2023 |
| preamplifier | ChengYi | EMC184045S E | 980508 | Oct. 29, 2021 | Oct. 28, 2023 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier | SCHWARZBECK | BBV 9718 | 9718-205 | Jun.06, 2022 | Jun.05, 2023 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Apr. 28, 2021 | Apr. 27, 2023 |
| SIGNAL ANALYZER | Agilent | N9020A | MY52090123 | Aug. 04, 2022 | Aug. 03, 2023 |
| USB Wideband Power Sensor | Agilent | U2021XA | MY54110007 | May 11, 2021 | May 10, 2025 |
| Universal Radio Communication Tester | R&S | CMU200 | 120237 | Jun. 07, 2022 | Jun. 06, 2023 |
| Universal Radio Communication Tester | Agilent | 8960 | GB46200384 | Aug. 04, 2022 | Aug. 03, 2023 |
| Power Splitter | Agilent | 11636A | 34 | Jun.06, 2022 | Jun.05, 2023 |
| Attenuator | JFW | 50FHC-006-50 | N/A | Jun.06, 2022 | Jun.05, 2023 |
| Horn Ant (18G-40GHz) | Schwarzbeck | BBHA 9170 | | Sep. 19, 2021 | Sep. 18, 2022 |
| Horn Ant (18G-40GHz) | ETS | QWH_SL_18_40_K_SG | | Sep. 19, 2021 | Sep. 18, 2022 |
| Power Splitter | Agilent | 11636A | / | Sep.14, 2021 | Sep.13, 2022 |
| CMU200 | R&S | 120237 | / | Jun. 07, 2022 | Jun. 06, 2023 |
| Artificial Mains | R&S | 101242 | / | Jun. 07, 2022 | Jun. 06, 2023 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

| | | | | | |
|------------------------------------|---------------|-----|---|---------------|---------------|
| Network ENV216 | | | | | |
| Filter Bank Notch 1(880-915MHz) | MICRO-TRONICS | 010 | / | Feb. 21, 2022 | Feb. 20, 2023 |
| Filter Bank Notch 2 (1710-1785MHz) | MICRO-TRONICS | 009 | / | Feb. 21, 2022 | Feb. 20, 2023 |
| Filter Bank Notch 3 (1920-1980MHz) | MICRO-TRONICS | 008 | / | Feb. 21, 2022 | Feb. 20, 2023 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

4. SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

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

4.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF EUT SYSTEM

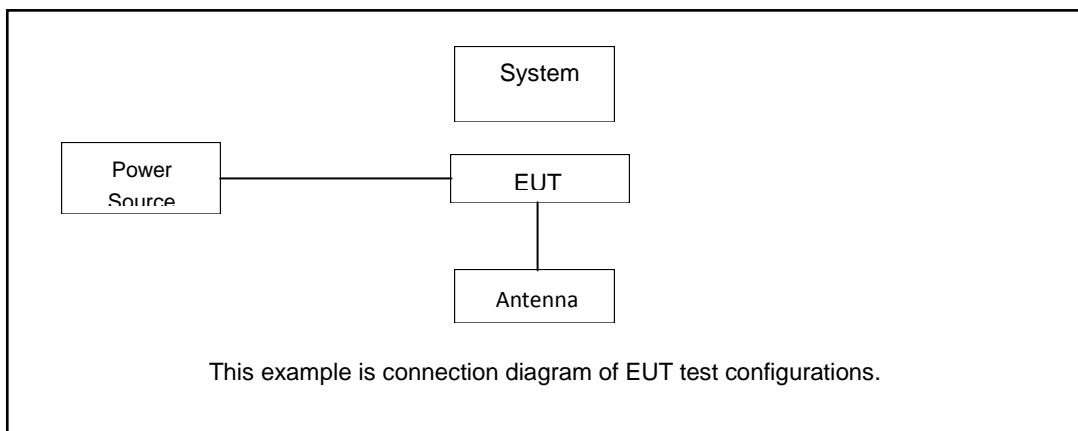


Table 2-1 Equipment Used in EUT System

4.4 EQUIPMENT USED IN TESTED SYSTEM

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

- Test Accessories Come From The Laboratory
- Test Accessories Come From The Manufacturer

| Item | Equipment | Model No. | Identifier | Note |
|------|-------------------|-----------|--|-------------|
| 1 | GSM Feature Phone | Hot | FCC ID: 2A8IR-HOT | EUT |
| 2 | Battery | BL-5C | DC 3.7V 1000mAh | Accessories |
| 3 | Adapter | Hot | Input: 100-240V, 50/60Hz Output: DC 5V 0.5A | Accessories |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

5. SUMMARY OF TEST RESULTS

5.1 TEST CONDITION : CONDUCTED TEST

| Item | Test Description | FCC Rules | Result |
|------|---|---------------------------------|--------|
| 1 | Occupied Bandwidth | §2.1049 | Pass |
| 2 | Band Edge / Spurious and Harmonic Emissions at Antenna Terminal | §2.1051, §22.917(a), §24.238(a) | Pass |
| 5 | Conducted Output Power | §2.1046 | Pass |
| 6 | Frequency stability / variation of ambient temperature | §2.1055, § 22.355, §24.235 | Pass |
| 7 | Peak- to- Average Ratio | §24.232(d) | Pass |

5.2 TEST CONDITION : RADIATED TEST

| Item | Test Description | FCC Rules | Result |
|------|--|----------------------------------|--------|
| 1 | Effective Radiated Power | §22.913(a)(5) | Pass |
| 2 | Equivalent Isotropic Radiated Power | §24.232(c) | Pass |
| 3 | Radiated Spurious and Harmonic Emissions | §2.1053, §22.917(a), §24.238(a), | Pass |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

6. DESCRIPTION OF TEST MODES

| Bands | Tx/Rx Frequency | RF Channel | | |
|-------------|---------------------------|-------------|-------------|-------------|
| | | Low(L) | Middle(M) | High(H) |
| GSM/GPRS850 | TX (824 MHz ~ 849 MHz) | Channel 128 | Channel 190 | Channel 251 |
| | | 824.2 MHz | 836.6 MHz | 848.8 MHz |

| Bands | Tx/Rx Frequency | RF Channel | | |
|--------------|---------------------------|-------------|-------------|-------------|
| | | Low(L) | Middle(M) | High(H) |
| GSM/GPRS1900 | TX (1850 MHz-1910 MHz) | Channel 512 | Channel 661 | Channel 810 |
| | | 1850.2 MHz | 1880.0 MHz | 1909.8 MHz |

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

| Band | Radiated | Conducted |
|----------------------|---|--|
| GSM/GPRS 850/1900 | GSM (GMSK, 1Tx-slot) Link GPRS (GMSK, 1Tx-slot) Link | GSM (GMSK,1Tx-slot) Link GPRS (GMSK, 1Tx-slot) Link |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

ACCORDING TO 3GPP 25.101 SUB-CLAUSE 6.2.2 , THE MAXIMUM OUTPUT POWER IS ALLOWED TO BE REDUCED BY FOLLOWING THE TABLE.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

| UE Transmit Channel Configuration | CM(db) | MPR(db) |
|--|-----------|-------------|
| For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH | 0≤ CM≤3.5 | MAX(CM-1,0) |

Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

7. CONDUCTED OUTPUT POWER

7.1 PROVISIONS APPLICABLE

The conduction test is carried out in a shielded room.

According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.4)

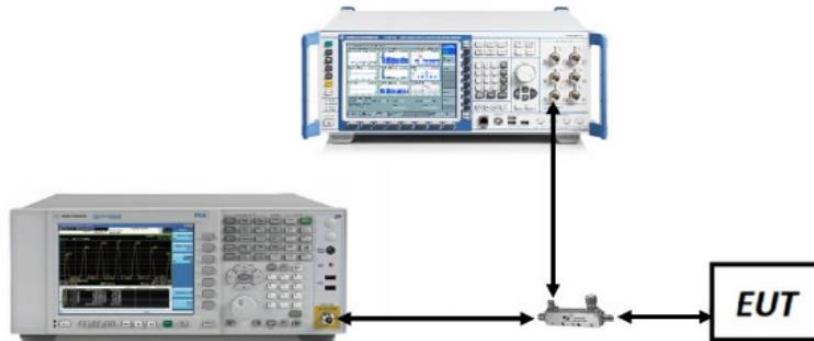
7.2 MEASUREMENT METHOD

- The transmitter output port was connected to base station.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
- The path loss was compensated to the results for each measurement.

Measure the maximum burst average power and average power for other modulation signal.

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all mode (GSM/GPRS 850, GSM/GPRS 1900,)at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

7.3 MEASUREMENT SETUP



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

7.4 MEASUREMENT RESULT

| GSM 850 Maximum Average Power (dBm) | | | |
|-------------------------------------|--------------|-----------|-----------|
| Channel | 128 | 190 | 251 |
| Frequency(MHz) | 824.2 MHz | 836.6 MHz | 848.8 MHz |
| GSM (GMSK, 1Tx-slot) | 33.15 | 33.13 | 32.94 |
| GPRS (GMSK, 1Tx-slot) | 33.10 | 33.04 | 32.88 |
| GPRS (GMSK, 2Tx-slot) | 30.79 | 30.81 | 30.47 |
| GPRS (GMSK, 3Tx-slot) | 28.25 | 28.34 | 28.41 |
| GPRS (GMSK, 4Tx-slot) | 26.69 | 26.74 | 26.73 |

| PCS 1900 Maximum Average Power (dBm) | | | |
|--------------------------------------|--------------|------------|------------|
| Channel | 512 | 661 | 810 |
| Frequency(MHz) | 1850.2 MHz | 1880.0 MHz | 1909.8 MHz |
| GSM (GMSK, 1Tx-slot) | 30.18 | 30.05 | 29.68 |
| GPRS (GMSK, 1Tx-slot) | 30.20 | 30.05 | 29.74 |
| GPRS (GMSK, 2Tx-slot) | 27.67 | 27.57 | 27.69 |
| GPRS (GMSK, 3Tx-slot) | 25.33 | 25.41 | 25.36 |
| GPRS (GMSK, 4Tx-slot) | 23.54 | 23.35 | 23.28 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

8. RADIATED OUTPUT POWER

8.1 PROVISIONS APPLICABLE

The radiation test is carried out in a semi-anechoic chamber.

According to the test, put the device under test on a non-conductive platform 3 meters away from the receiving antenna (ANSI/TIA-603-E-2016 Article 2.2.17).

The following rules are for the maximum radiated power limit requirements of the product:

| Mode | Nominal Peak Power |
|----------|-------------------------------|
| GSM 850 | < 7 Watts max. ERP (38.45dBm) |
| PCS 1900 | < 2 Watts max. EIRP (33dBm) |

8.2 MEASUREMENT METHOD

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $>$ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

Radiation Construction Method:

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula:

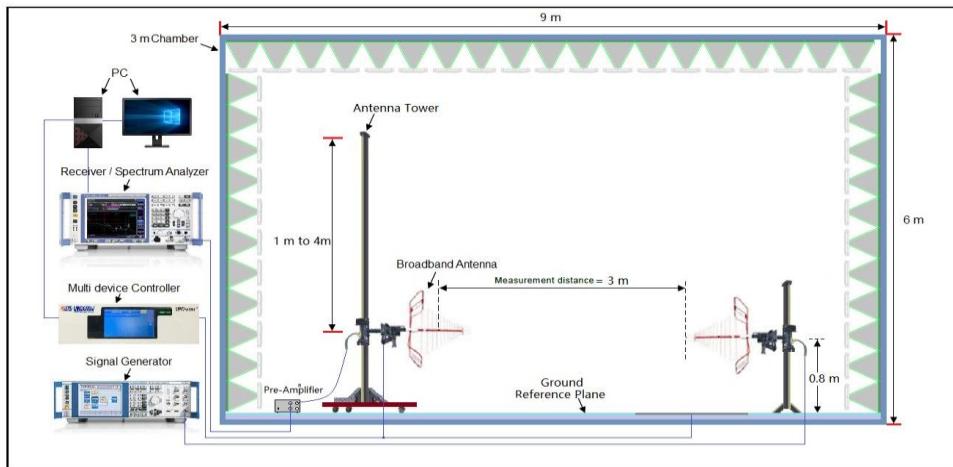
$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes (X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

8.3 MEASUREMENT SETUP

Radiated Power 30MHz to 1GHz Test setup

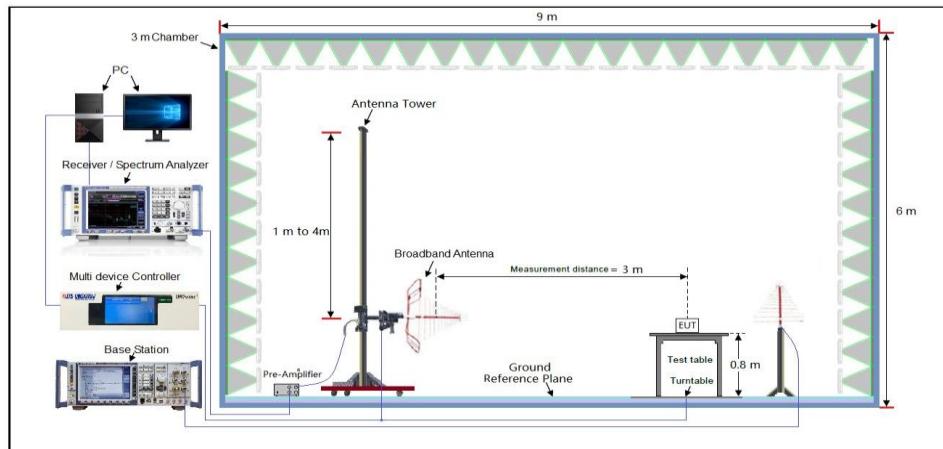


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

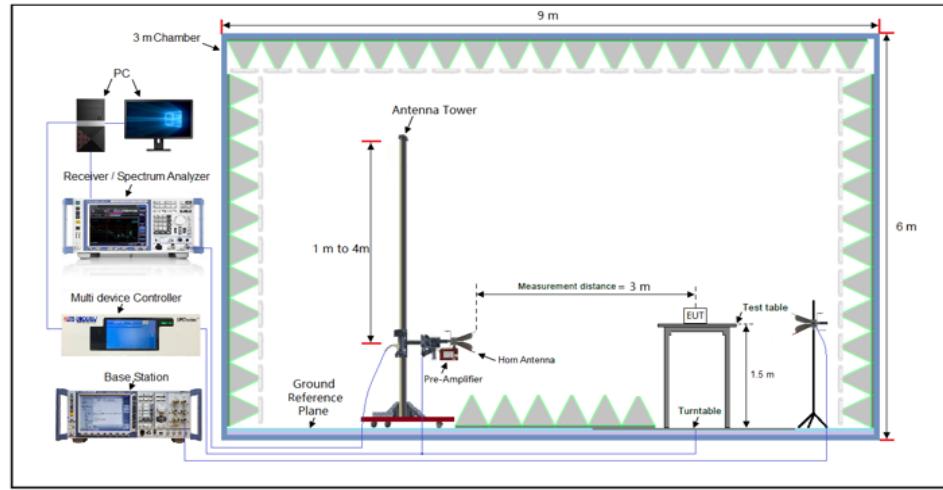
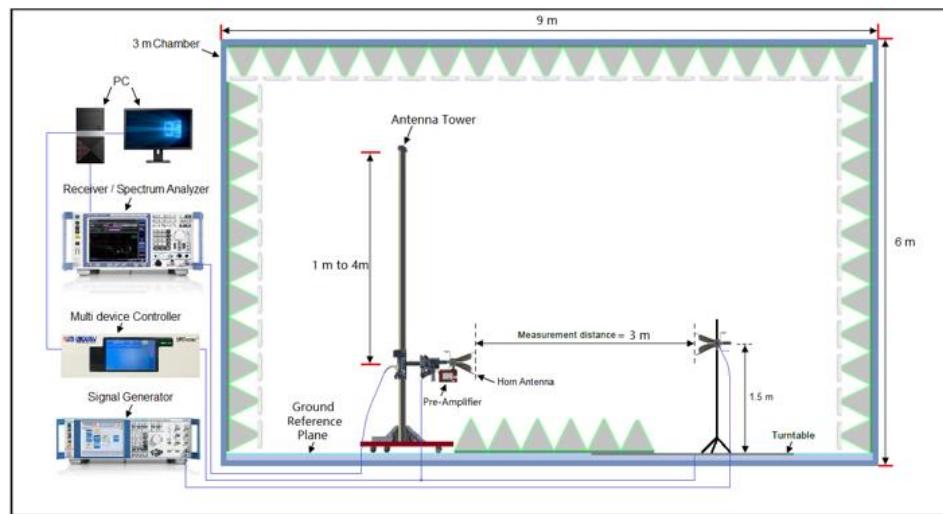
Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Radiated Power Below 1GHz Test setup



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

8.4 MEASUREMENT RESULT

| Mode | Ch./ Freq. | | Substitute LEVEL (dBm) | Ant. Gain (dBd) | C.L | Pol. | Limit | ERP | |
|---------|------------|-------------|------------------------------|-----------------------|------|------|--------|-------|--------------|
| | channel | Freq. (MHz) | | | | | W | W | dBm |
| GSM850 | 128 | 824.2 | 35.23 | 5.90 | 1.21 | H | < 7.00 | 1.132 | 30.54 |
| | 190 | 836.6 | 35.14 | 5.90 | 1.22 | H | | 1.112 | 30.46 |
| | 251 | 848.8 | 35.37 | 5.90 | 1.25 | H | | 1.180 | 30.72 |
| GPRS850 | 128 | 824.2 | 33.11 | 5.90 | 1.21 | H | < 7.00 | 0.695 | 28.42 |
| | 190 | 836.6 | 33.01 | 5.90 | 1.22 | H | | 0.681 | 28.33 |
| | 251 | 848.8 | 32.94 | 5.90 | 1.25 | H | | 0.675 | 28.29 |

| Mode | Ch./ Freq. | | Substitute LEVEL (dBm) | Ant. Gain (dBi) | C.L | Pol. | Limit | EIRP | |
|----------|------------|-------------|------------------------------|-----------------------|------|------|--------|-------|-------|
| | channel | Freq. (MHz) | | | | | W | W | dBm |
| PCS1900 | 512 | 1850.2 | 34.80 | 8.6 | 2.11 | H | < 2.00 | 0.678 | 28.31 |
| | 661 | 1880.0 | 34.64 | 8.6 | 2.15 | H | | 0.659 | 28.19 |
| | 810 | 1909.8 | 34.78 | 8.6 | 2.15 | H | | 0.681 | 28.33 |
| GPRS1900 | 512 | 1850.2 | 32.83 | 8.6 | 2.11 | H | < 2.00 | 0.431 | 26.34 |
| | 661 | 1880.0 | 32.97 | 8.6 | 2.15 | H | | 0.449 | 26.52 |
| | 810 | 1909.8 | 32.92 | 8.6 | 2.15 | H | | 0.444 | 26.47 |

Note:1. EIRP/ERP = Substitute LEVEL (dBm) + Ant. Gain – C.L (Cable Loss)

2. All polarizations and modes have been tested, only the worst mode is recorded in the report

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

9. PEAK-TO-AVERAGE RATIO

9.1 PROVISIONS APPLICABLE

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

9.2 MEASUREMENT METHOD

① CCDF Procedure for PAPR :

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
-for continuous transmissions, set to 1 ms,
-or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1%.

② Alternate Procedure for PAPR:

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as PPk. Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as PAvg. Determine the P.A.R. from:

$$\text{P.A.R(dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)} \quad (\text{PAvg} = \text{Average Power} + \text{Duty cycle Factor})$$

Allow trace to fully stabilize.

Use the peak marker function to determine the peak amplitude level.

Test Settings(Peak Power):

The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

1. Set the RBW \geq OBW.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq 2 \times$ OBW.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

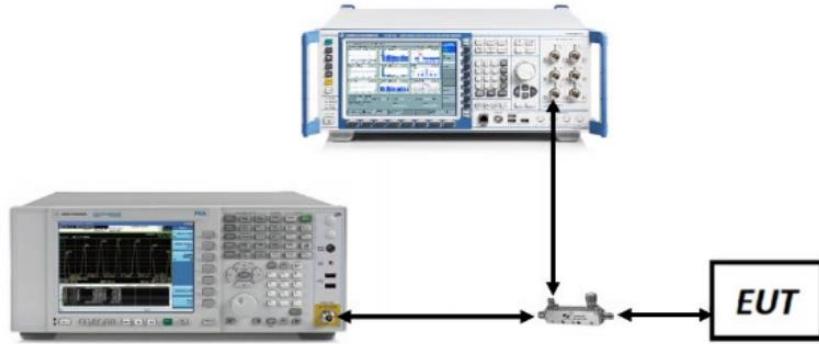
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

4. Sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})$.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

Test Settings(Average Power)

1. Set span to $2 \times$ to $3 \times$ the OBW.
2. Set RBW \geq OBW.
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time: Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

9.3 MEASUREMENT SETUP



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

9.4 MEASUREMENT RESULT

| Bands | Modulation | Peak-to-average ratio (dB) | | | Limit | Result |
|--------------|-------------------|-----------------------------------|---------------|----------------|--------------|---------------|
| | | Lowest | Middle | Highest | | |
| GSM 850 | GSM | 2.64 | 2.65 | 2.64 | 13 | Pass |
| | GPRS | 2.65 | 2.64 | 2.64 | 13 | Pass |
| PCS 1900 | GSM | 2.64 | 2.64 | 2.64 | 13 | Pass |
| | GPRS | 2.64 | 2.64 | 2.65 | 13 | Pass |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

10. OCCUPIED BANDWIDTH

10.1 PROVISIONS APPLICABLE

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission. The EUT makes a call to the communication simulator.

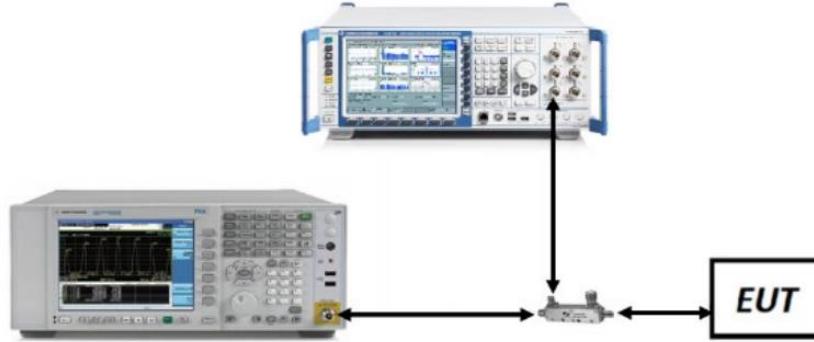
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

10.2 MEASUREMENT METHOD

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

10.3 MEASUREMENT SETUP



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

10.4 MEASUREMENT RESULT

| Test Band | Test Mode | Test Channel | Occupied Bandwidth (KHz) | Emission Bandwidth (KHz) | Verdict |
|-----------|-----------|--------------|--------------------------|--------------------------|---------|
| GSM 850 | GSM | LCH | 246.5 | 314 | PASS |
| | | MCH | 246.6 | 315 | PASS |
| | | HCH | 244.8 | 314 | PASS |
| | GPRS | LCH | 247.9 | 311 | PASS |
| | | MCH | 248.6 | 307 | PASS |
| | | HCH | 245.7 | 308 | PASS |

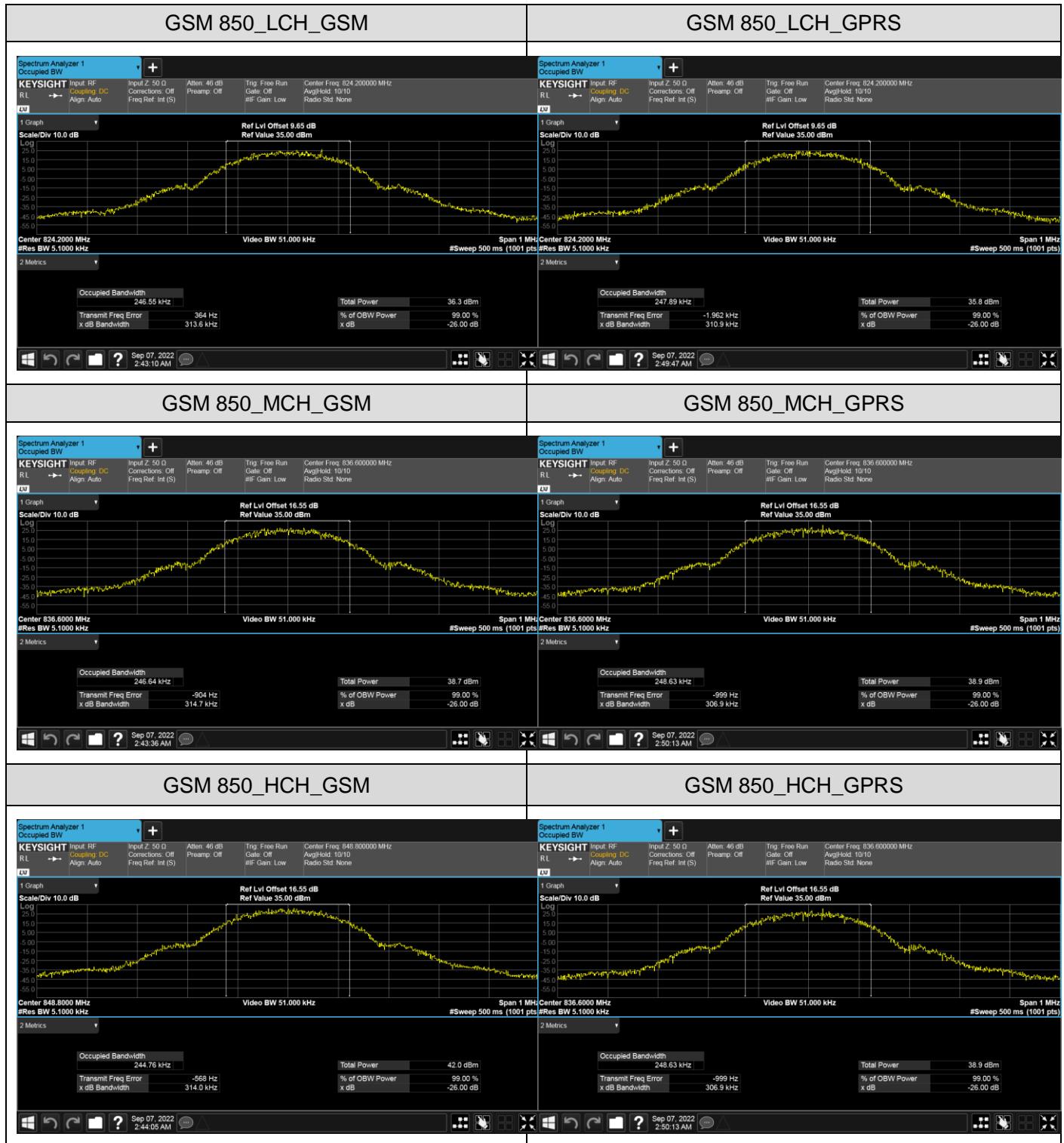
| Test Band | Test Mode | Test Channel | Occupied Bandwidth (KHz) | Emission Bandwidth (KHz) | Verdict |
|-----------|-----------|--------------|--------------------------|--------------------------|---------|
| PCS 1900 | GSM | LCH | 249.0 | 316 | PASS |
| | | MCH | 244.7 | 316 | PASS |
| | | HCH | 246.8 | 319 | PASS |
| | GPRS | LCH | 243.3 | 316 | PASS |
| | | MCH | 244.0 | 314 | PASS |
| | | HCH | 245.8 | 312 | PASS |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

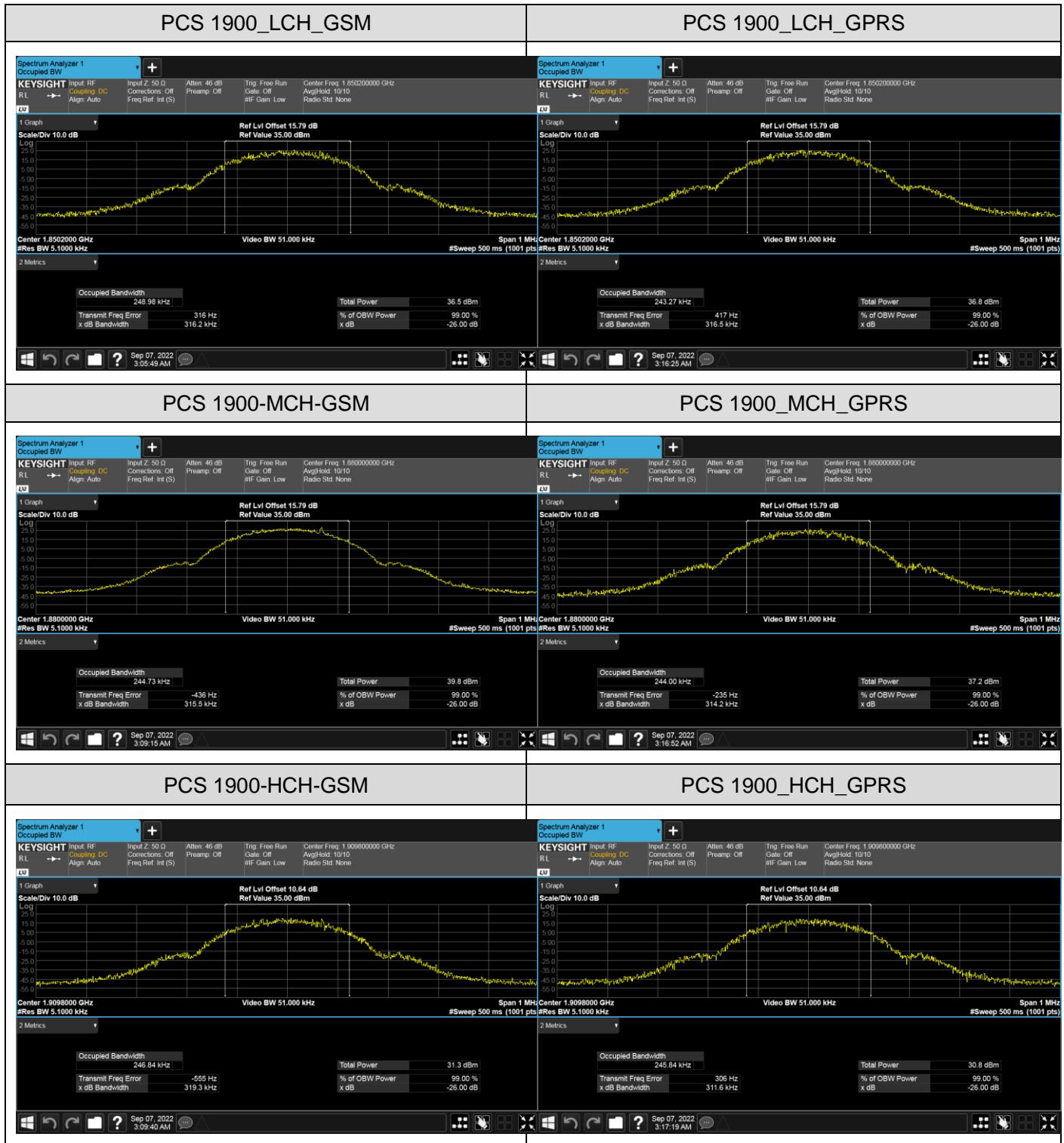


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

11. BAND EDGE EMISSIONS AT ANTENNA TERMINAL

11.1 MEASUREMENT OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

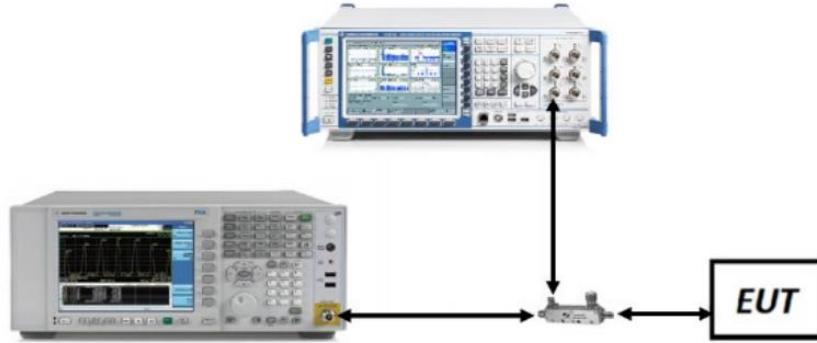
11.2 MEASUREMENT METHOD

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

TEST NOTE

According to FCC 22.917, 24.238, 27.53 specified that 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. All measurements were done at 2 channels (low and high operational frequency range.) The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

11.3 MEASUREMENT METHOD



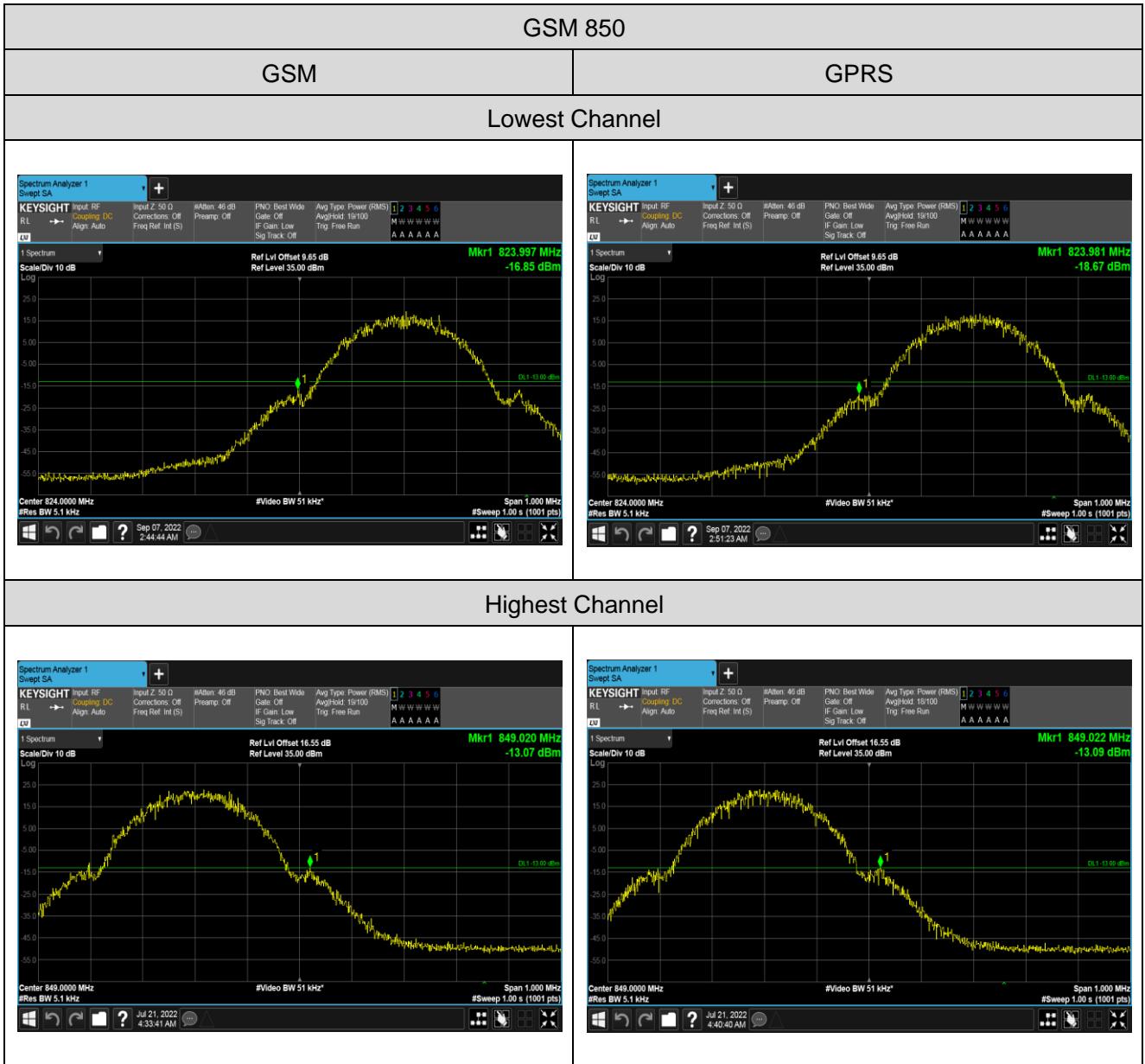
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

11.4 MEASUREMENT RESULT

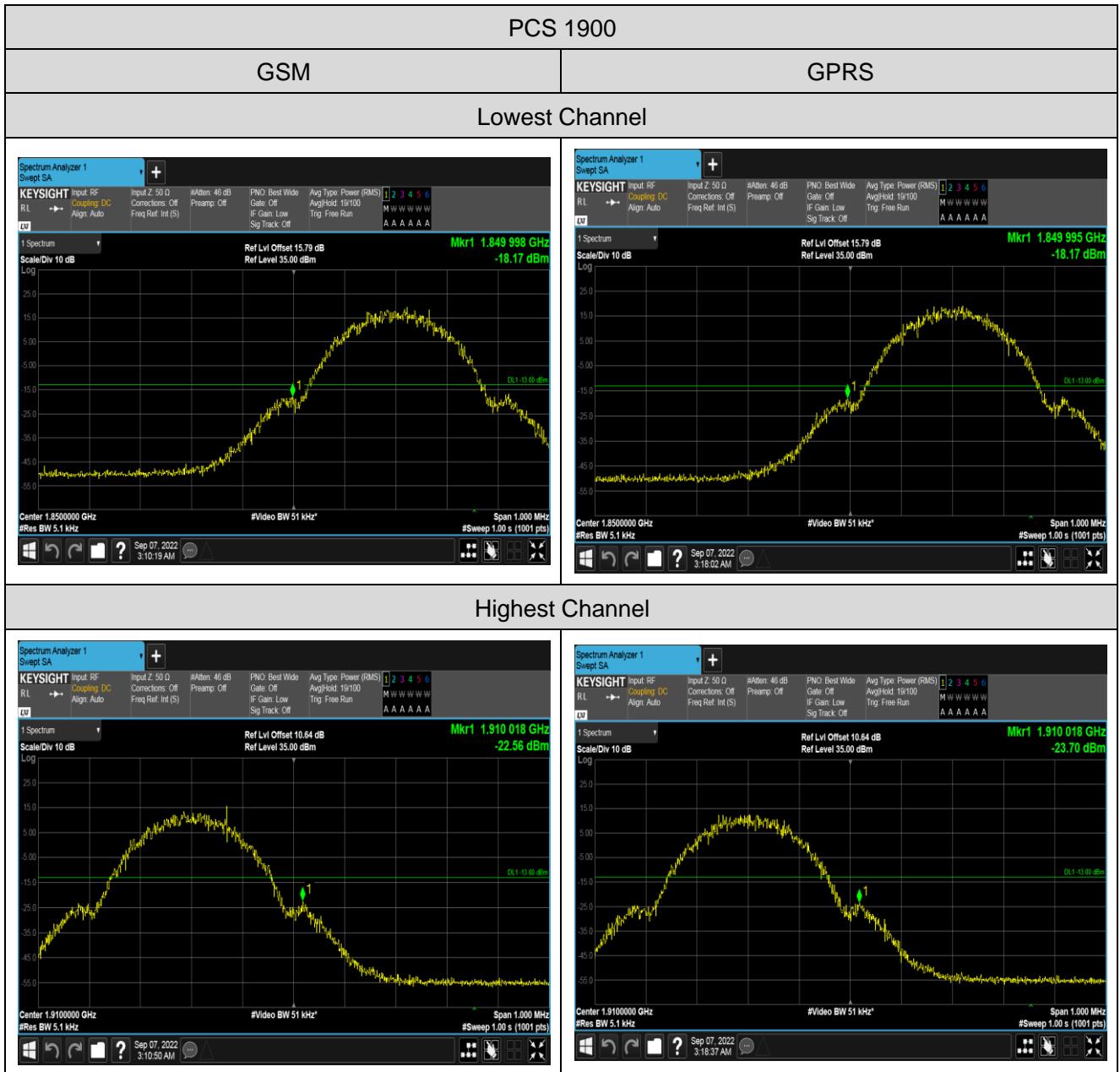


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

12. SPURIOUS EMISSIONS AT ANTENNA TERMINAL

12.1 PROVISIONS APPLICABLE

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

12.2 MEASUREMENT METHOD

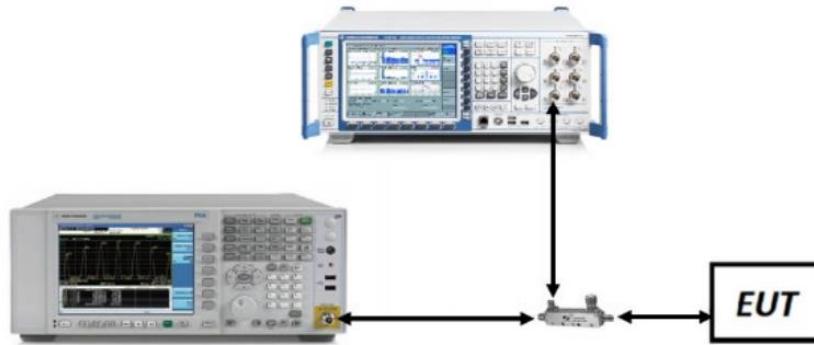
Test Settings (GSM)

1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep \geq 2 x Span / RBW

Test Settings (WCDMA)

1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep \geq 2 x Span / RBW

12.3 MEASUREMENT SETUP



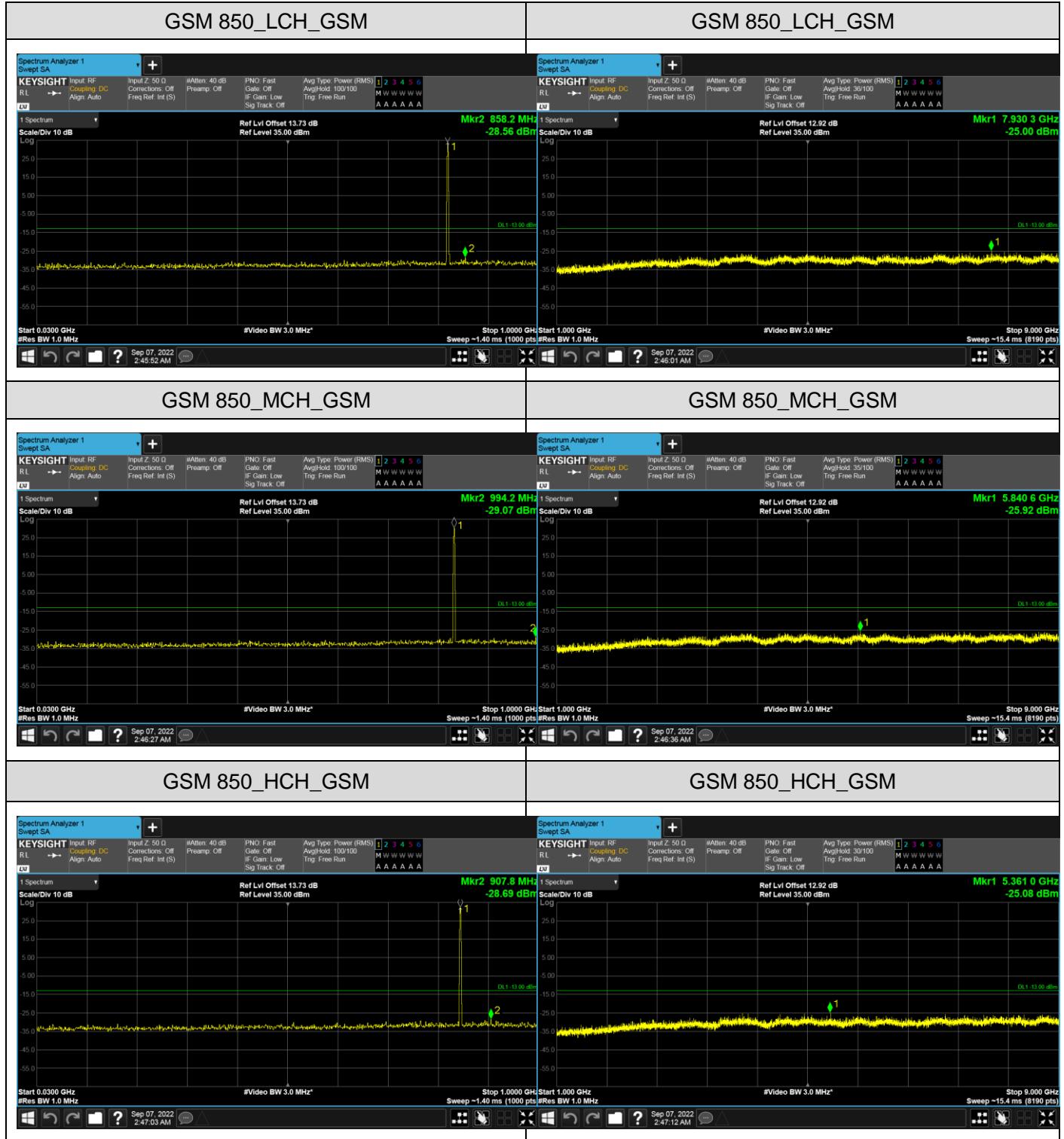
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

12.4 MEASUREMENT RESULT

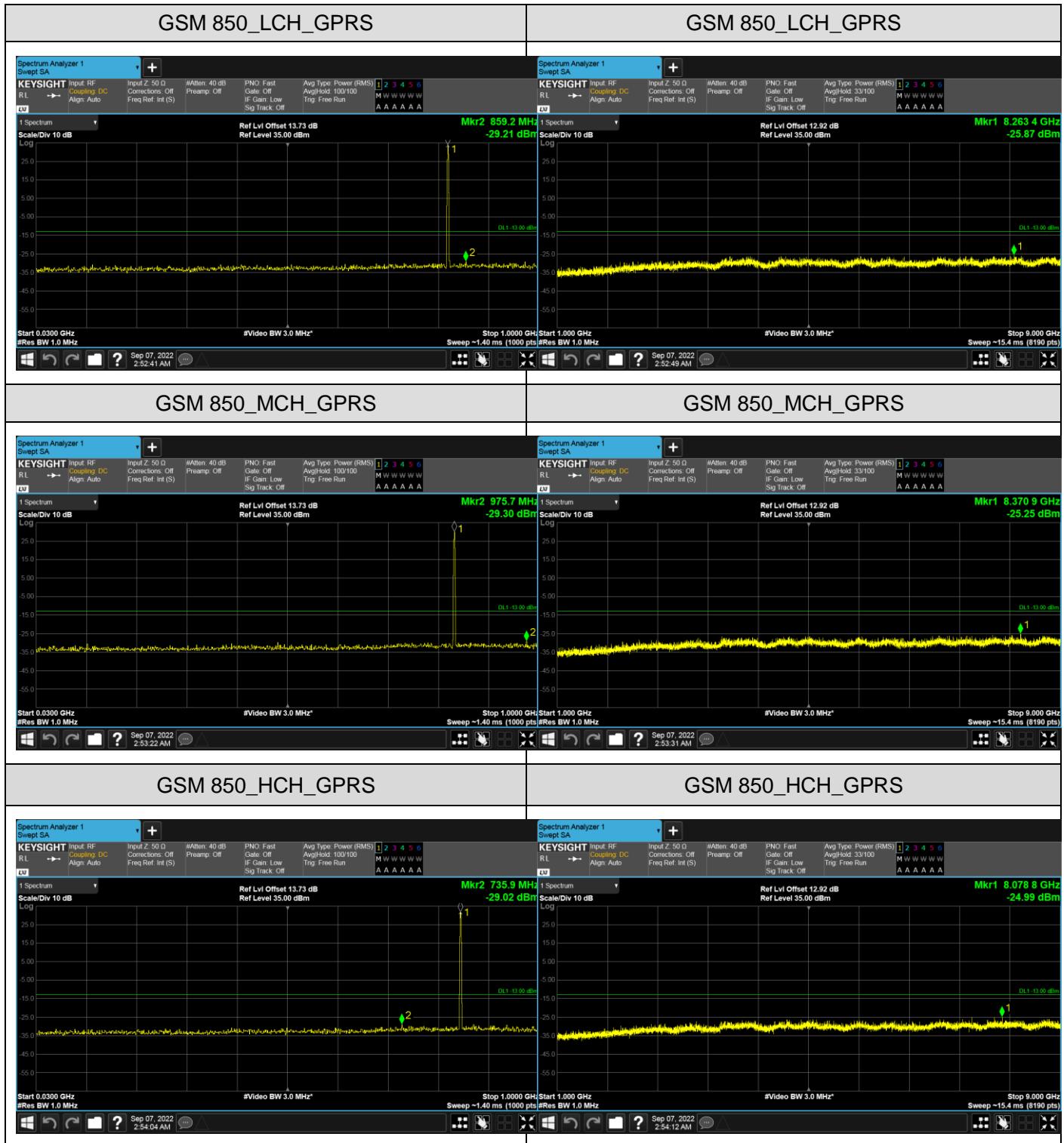


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

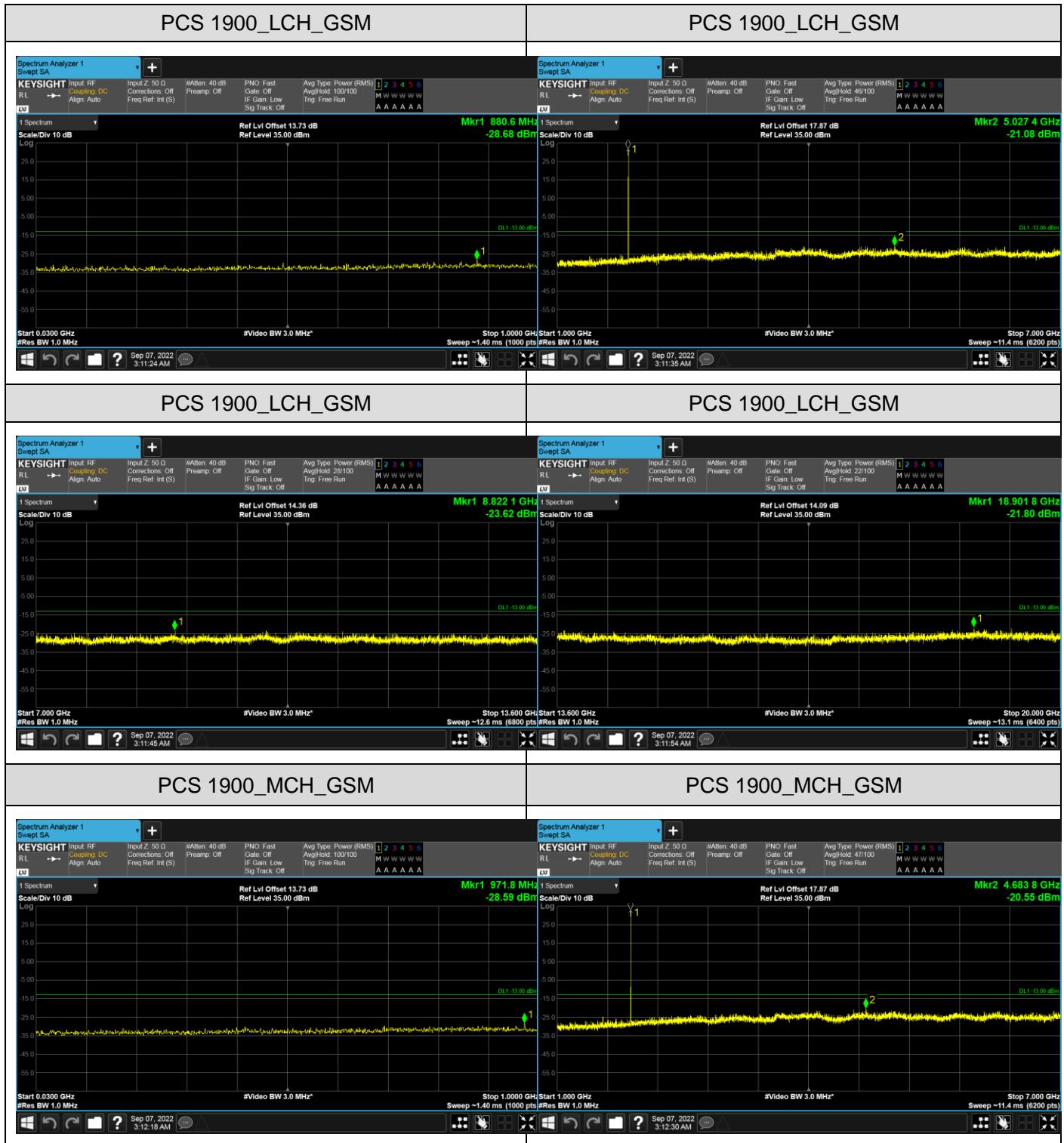


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

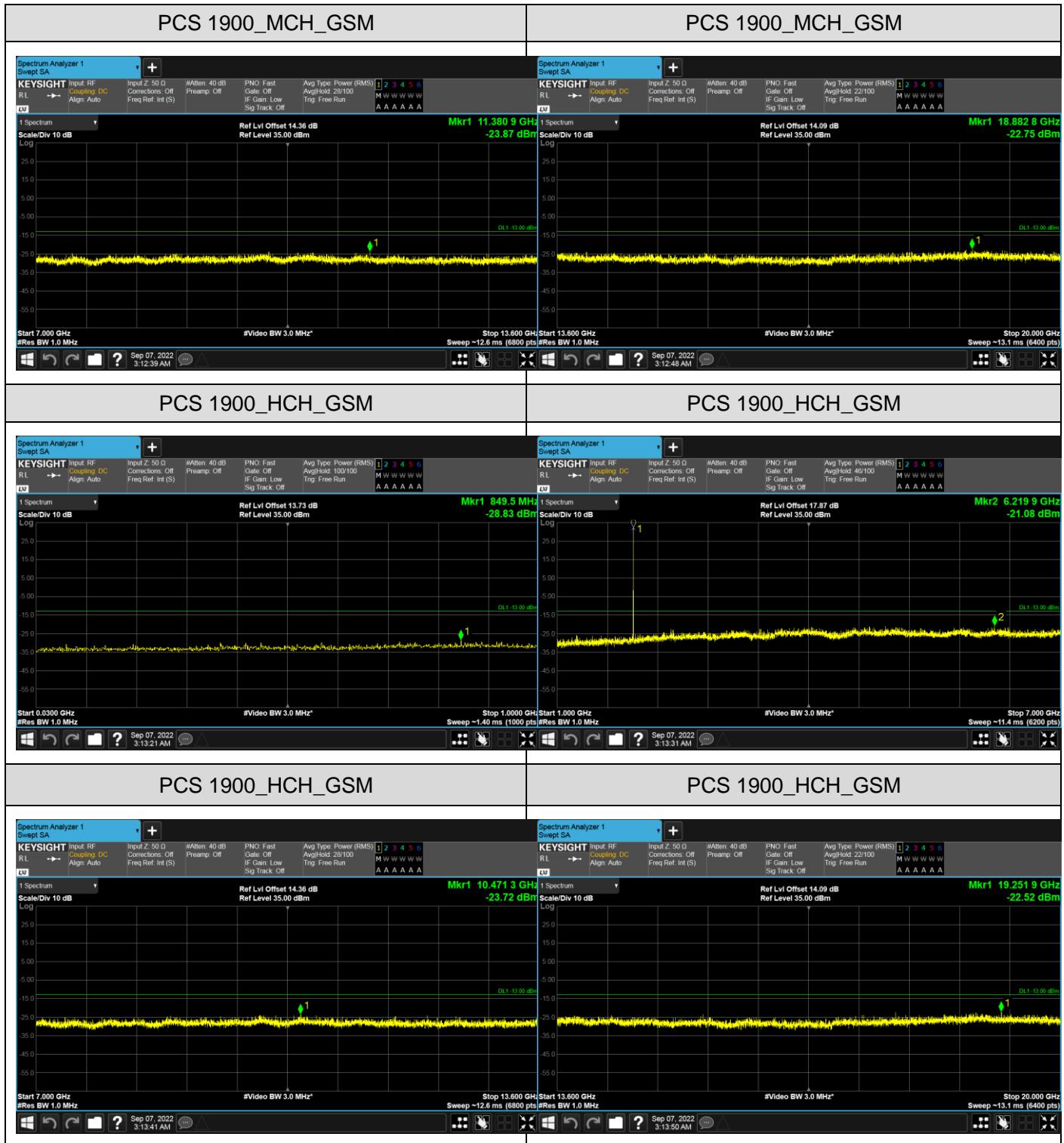


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

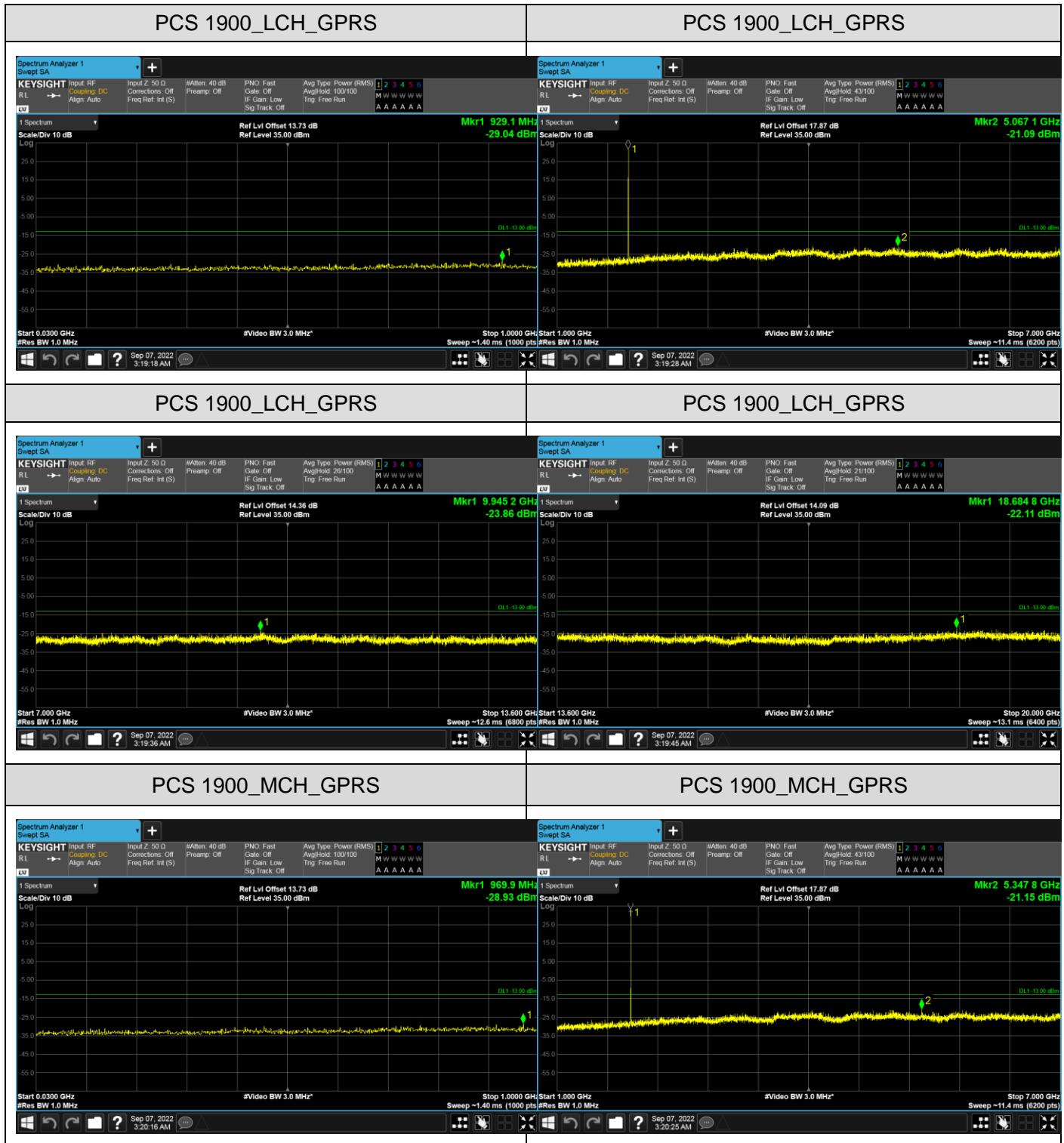


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

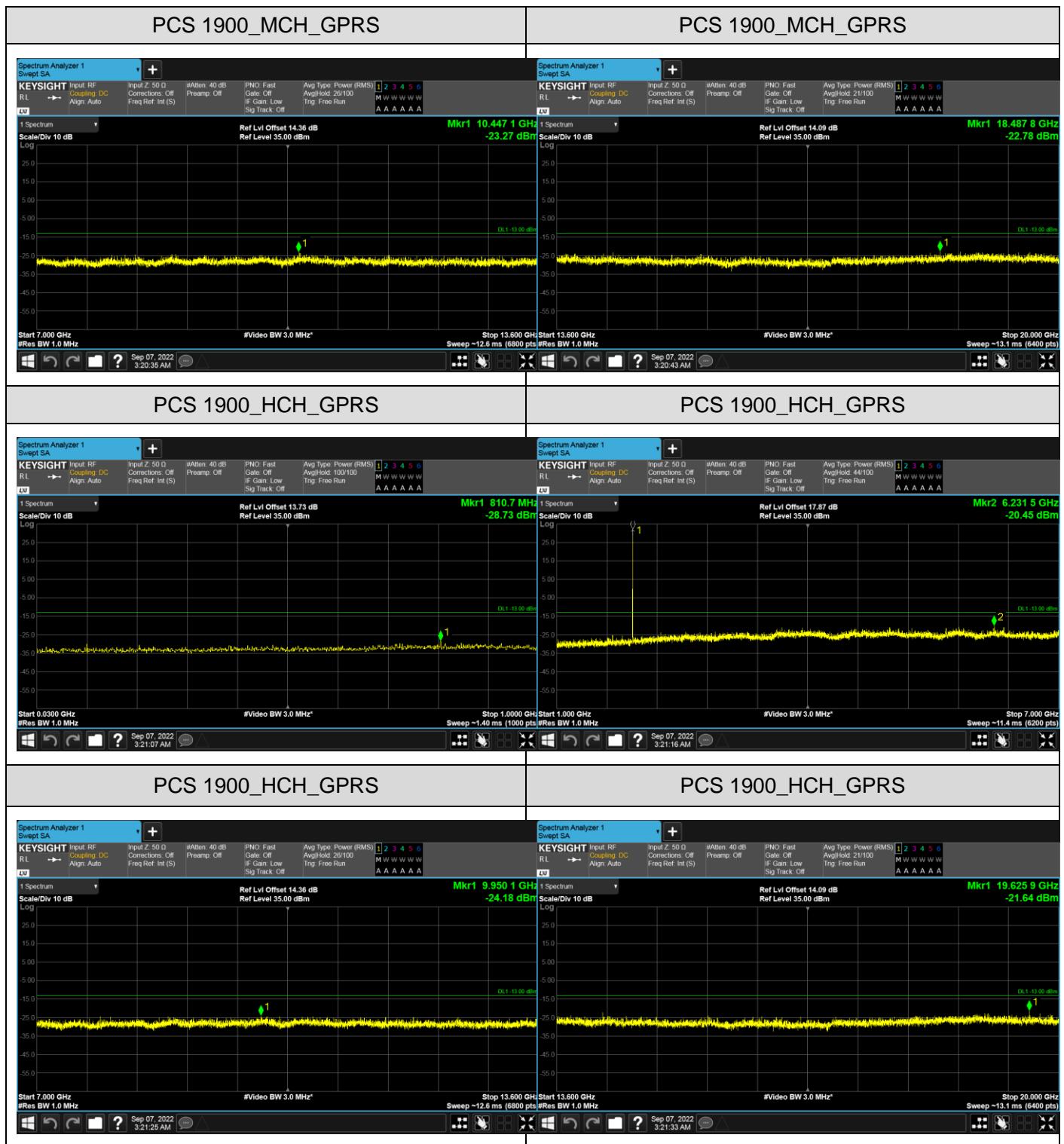


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Note: 1. Below 30MHz no Spurious found and Above is the worst mode data.

2. As no emission found in standby or receive mode, no recording in this report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

13. RADIATED SPURIOUS EMISSION

13.1. PROVISIONS APPLICABLE

(A) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.

At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

(B) For specific criteria, please refer to the description in section 9.2 of the report for corresponding evaluation.

13.2. 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 emissions, 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 VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

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.
11. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated. The spurious emissions is calculated by the following formula;

$$\text{Result(dBm)} = \text{Pg(dBm)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} + \text{Power Splitter(dB)} \text{ (Above 1GHz)}$$

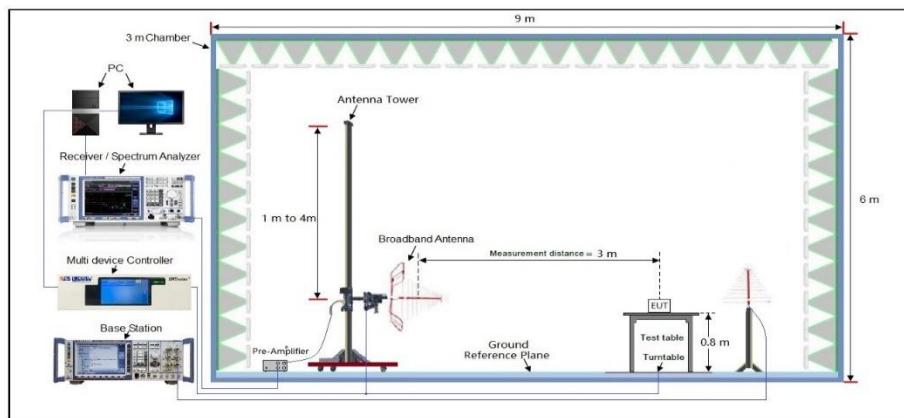
$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} \text{ (Below 1GHz)}$$

Where: Pg is the generator output power into the substitution antenna.
 If the fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

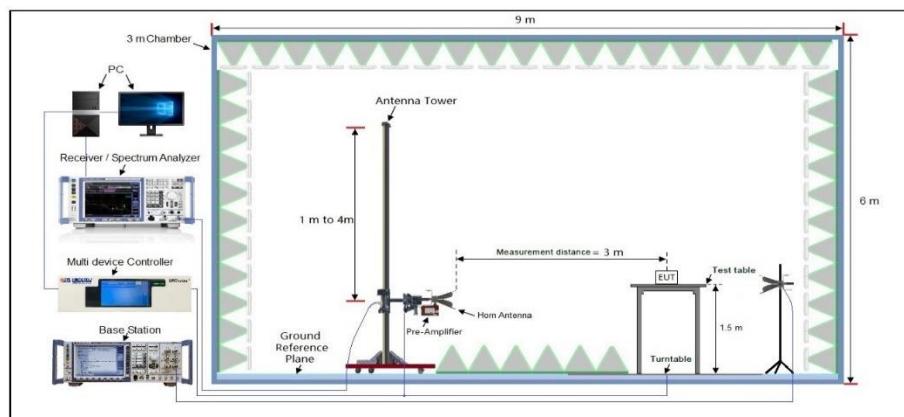
$$\text{EIRP(dBm)} = \text{ERP(dBm)} + 2.15$$

13.3. MEASUREMENT setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

13.4 MEASUREMENT RESULT

The measurement Below 1GHz data as follows:

| GSM 850 | | | | | | | |
|----------------------|-----------|------------|-------------------|-------------|--------|--------|------------|
| No. | Frequency | SA Reading | Correction factor | EIRP Result | Limit | Margin | Ant. Pol. |
| | (MHz) | (dBm) | (dB/m) | (dBm) | (dBm) | (dB) | |
| GSM_ Lowest Channel | | | | | | | |
| 1 | 159.759 | -64.73 | 15.52 | -49.21 | -13.00 | -36.21 | Horizontal |
| 2 | 240.144 | -62.35 | 16.75 | -45.60 | -13.00 | -32.60 | Horizontal |
| 3 | 754.963 | -58.91 | 19.35 | -39.56 | -13.00 | -26.56 | Horizontal |
| 4 | 46.708 | -64.41 | 10.44 | -53.97 | -13.00 | -40.97 | Vertical |
| 5 | 433.340 | -60.22 | 17.75 | -42.47 | -13.00 | -29.47 | Vertical |
| 6 | 502.247 | -57.17 | 18.66 | -38.51 | -13.00 | -25.51 | Vertical |
| GSM_ Middle Channel | | | | | | | |
| 1 | 31.735 | -61.05 | 9.78 | -51.27 | -13.00 | -38.27 | Horizontal |
| 2 | 159.759 | -61.42 | 13.75 | -47.67 | -13.00 | -34.67 | Horizontal |
| 3 | 240.144 | -60.63 | 16.75 | -43.88 | -13.00 | -30.88 | Horizontal |
| 4 | 43.233 | -61.95 | 10.23 | -51.72 | -13.00 | -38.72 | Vertical |
| 5 | 433.340 | -60.48 | 17.75 | -42.73 | -13.00 | -29.73 | Vertical |
| 6 | 498.730 | -57.22 | 18.02 | -39.20 | -13.00 | -26.20 | Vertical |
| GSM_ Highest Channel | | | | | | | |
| 1 | 159.759 | -62.65 | 13.75 | -48.90 | -13.00 | -35.90 | Horizontal |
| 2 | 240.144 | -62.24 | 16.75 | -45.49 | -13.00 | -32.49 | Horizontal |
| 3 | 679.435 | -57.21 | 19.01 | -38.20 | -13.00 | -25.20 | Horizontal |
| 4 | 43.233 | -62.02 | 10.23 | -51.79 | -13.00 | -38.79 | Vertical |
| 5 | 433.340 | -60.70 | 17.75 | -42.95 | -13.00 | -29.95 | Vertical |
| 6 | 498.730 | -57.68 | 18.02 | -39.66 | -13.00 | -26.66 | Vertical |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

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

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>