



Report No.: SEWM2209000178RG05
Rev.: 01
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TEST REPORT

Application No.: SEWM2209000178RG
Applicant: Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Applicant: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Manufacturer: Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
EUT Description: 5G CPE
Model No.: F-NR300
Trade Mark: Four-Faith
FCC ID: 2ALUW-FNR300
Standards: 47 CFR Part 2.1091
 FCC KDB 447498 D01 v06
Date of Receipt: 2022/09/26
Date of Issue: 2022/12/22

| | |
|---------------------|--------------|
| Test Result: | PASS* |
|---------------------|--------------|

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

Authorized Signature:


Panta Sun
Wireless Laboratory Manager



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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022/12/22 | | Original |

| | | |
|--------------------|--|--|
| Prepared By | |  <hr/> (Nick Hu) / Test Engineer |
| Checked By | |  <hr/> (Well Wei) / Reviewer |



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2 General Information

2.1 Client Information

| | |
|--------------------------|--|
| Applicant: | Xiamen Four-Faith Communication Technology Co., Ltd. |
| Address of Applicant: | 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China. |
| Manufacturer: | Xiamen Four-Faith Communication Technology Co., Ltd. |
| Address of Manufacturer: | 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China. |

2.2 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



2.3 General Description of EUT

| | | | | |
|--------------------|--|--|----------------|---------------|
| EUT Description: | 5G CPE | | | |
| Model No.: | F-NR300 | | | |
| Trade Mark: | Four-Faith | | | |
| Hardware Version: | V1.5 | | | |
| Software Version: | FNR300-NA_A311294 | | | |
| Antenna Type: | PCB Antenna | | | |
| HPUE Power Class: | Class 2: Band 41, CA_41C, n41, n77, n78 | | | |
| Feature: | UL 2*2 MIMO: n41; n77; n78 | | | |
| Antenna Gain: | WCDMA Band II: | 2.92dBi(Ant0) | WCDMA Band IV: | 3.3dBi(Ant0) |
| | WCDMA Band V: | 1.64dBi(Ant0) | | |
| | LTE Band 2: | 2.92dBi(Ant0) | LTE Band 4: | 3.3dBi(Ant0) |
| | LTE Band 5: | 1.64dBi(Ant0) | LTE Band 7: | 2.77dBi(Ant0) |
| | LTE Band 12: | 0.63dBi(Ant0) | LTE Band 13: | 2.21dBi(Ant0) |
| | LTE Band 14: | 2.21dBi(Ant0) | LTE Band 17: | 0.63dBi(Ant0) |
| | LTE Band 25: | 2.92dBi(Ant0) | LTE Band 26: | 2.16dBi(Ant0) |
| | LTE Band 30: | 2.81dBi(Ant0) | LTE Band 66: | 3.3dBi(Ant0) |
| | LTE Band 71: | 0.36dBi(Ant0) | LTE Band 41: | 3.2dBi(Ant1) |
| | LTE Band 48: | 2.17dBi(Ant5) | LTE CA_41C: | 3.2dBi(Ant1) |
| | n2: | 2.92dBi(Ant0) | n5: | 1.64dBi(Ant0) |
| | n7: | 2.77dBi(Ant0) | n12: | 0.63dBi(Ant0) |
| | n14: | 2.21dBi(Ant0) | n25: | 2.92dBi(Ant0) |
| | n30: | 2.81dBi(Ant0) | n66: | 3.3dBi(Ant0) |
| | n71: | 0.36dBi(Ant0) | | |
| | n41: | 2.77dBi(Ant0); 3.2dBi(Ant1) | | |
| | n77: | 2.99dBi(Ant4); 2.91dBi(Ant5) | | |
| | n78: | 2.99dBi(Ant4); 2.91dBi(Ant5) | | |
| | WIFI 2.4G: | 2.64dBi(Ant1); 3.09dBi(Ant2); 2.61dBi(Ant3); 2dBi(Ant4) | | |
| | 5G WIFI(U-NII-1): | 2.58dBi(Ant1); 2.54dBi(Ant2); 2.86dBi(Ant3); 2.68dBi(Ant4) | | |
| 5G WIFI(U-NII-2A): | 3.08dBi(Ant1); 2.13dBi(Ant2); 1.86dBi(Ant3); 3.08dBi(Ant4) | | | |
| 5G WIFI(U-NII-2C): | 2.39dBi(Ant1); 3.02dBi(Ant2); 2.79dBi(Ant3); 3.11dBi(Ant4) | | | |
| 5G WIFI(U-NII-3): | 1.51dBi(Ant1); 3.13dBi(Ant2); 2.38dBi(Ant3); 3.05dBi(Ant4) | | | |



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| | |
|--|--|
| | <p>ENDC: DC_12A_n2A; DC_12A_n25A; DC_41A_n41A; DC_2A_n41A; DC_66A_n41A; DC_12A_n66A; DC_2A_n71A; DC_66A_n71A NR UL CA: CA_n25A-n41A; CA_n41A-n66A; CA_n41A-n71A; CA_n25A-n71A; CA_n66A-n71A;</p> |
| | <p>Note: The antenna gain are derived from the gain information report provided by the manufacturer.</p> |
| <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> | |



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | / | / | f/300 | 6 |
| 1500-100,000 | / | / | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

| Operating Band | Frequency (MHz) | Antenna Gain (dBi) | Max Conducted Average Output Power (dBm) | Output Power to Antenna (dBm) | EIRP(ERP) Limit (dBm) | Output Power to Antenna (mw) | Power Density at R = 20 cm (mW/cm2) | Limit (mW/cm2) | Gain according to EIRP (dBi) | Gain according to Pd (dBi) | Max Gain Allowed (dBi) | conclusion |
|--------------------|-----------------|--------------------|--|-------------------------------|-----------------------|------------------------------|-------------------------------------|----------------|------------------------------|----------------------------|------------------------|------------|
| WCDMA Bnad II | 1852.4 | 2.92 | 25.00 | 27.92 | 33.00 | 316.2278 | 0.1232 | 1.0000 | 8.00 | 12.01 | 8.00 | Pass |
| WCDMA Bnad IV | 1712.4 | 3.30 | 25.00 | 28.30 | 30.00 | 316.2278 | 0.1345 | 1.0000 | 5.00 | 12.01 | 5.00 | Pass |
| WCDMA Bnad V | 826.4 | 1.64 | 25.00 | 26.64 | 38.45 | 316.2278 | 0.0918 | 0.5509 | 13.45 | 9.42 | 9.42 | Pass |
| LTE B2 | 1850.7 | 2.92 | 25.00 | 27.92 | 33.00 | 316.2278 | 0.1232 | 1.0000 | 8.00 | 12.01 | 8.00 | Pass |
| LTE B4 | 1710.7 | 3.30 | 25.00 | 28.30 | 30.00 | 316.2278 | 0.1345 | 1.0000 | 5.00 | 12.01 | 5.00 | Pass |
| LTE B5 | 824.7 | 1.64 | 25.00 | 26.64 | 38.45 | 316.2278 | 0.0918 | 0.5498 | 13.45 | 9.41 | 9.41 | Pass |
| LTE B7 | 2502.5 | 2.77 | 25.00 | 27.77 | 33.00 | 316.2278 | 0.1191 | 1.0000 | 8.00 | 12.01 | 8.00 | Pass |
| LTE B12 | 699.7 | 0.63 | 25.00 | 25.63 | 34.77 | 316.2278 | 0.0727 | 0.4665 | 9.77 | 8.70 | 8.70 | Pass |
| LTE B13 | 779.5 | 2.21 | 25.00 | 27.21 | 34.77 | 316.2278 | 0.1046 | 0.5197 | 9.77 | 9.16 | 9.16 | Pass |
| LTE B14 | 790.5 | 2.21 | 25.00 | 27.21 | 34.77 | 316.2278 | 0.1046 | 0.5270 | 9.77 | 9.23 | 9.23 | Pass |
| LTE B17 | 706.5 | 0.63 | 25.00 | 25.63 | 34.77 | 316.2278 | 0.0727 | 0.4710 | 9.77 | 8.74 | 8.74 | Pass |
| LTE B25 | 1850.7 | 2.92 | 25.00 | 27.92 | 33.00 | 316.2278 | 0.1232 | 1.0000 | 8.00 | 12.01 | 8.00 | Pass |
| LTE B26(814-824) | 814.7 | 2.16 | 25.00 | 27.16 | NA | 316.2278 | 0.1034 | 0.5431 | NA | 9.36 | 9.36 | Pass |
| LTE B26(824-849) | 824.7 | 2.16 | 25.00 | 27.16 | 38.45 | 316.2278 | 0.1034 | 0.5498 | 13.45 | 9.41 | 9.41 | Pass |
| LTE B30 | 2307.5 | 2.81 | 21.00 | 23.81 | 23.98 | 125.8925 | 0.0478 | 1.0000 | 2.98 | 16.01 | 2.98 | Pass |
| LTE B41/CA 41(PC2) | 2498.5 | 3.20 | 27.50 | 30.70 | 33.00 | 562.3413 | 0.2337 | 1.0000 | 5.50 | 9.51 | 5.50 | Pass |
| LTE B66 | 1710.7 | 3.30 | 24.50 | 27.80 | 30.00 | 281.8383 | 0.1199 | 1.0000 | 5.50 | 12.51 | 5.50 | Pass |
| LTE B71 | 665.5 | 0.36 | 25.00 | 25.36 | 34.77 | 316.2278 | 0.0683 | 0.4437 | 9.77 | 8.48 | 8.48 | Pass |
| LTE B48 | 3552.5 | 2.17 | 20.70 | 22.87 | 23.00 | 117.4898 | 0.0385 | 1.0000 | 2.30 | 16.31 | 2.30 | Pass |
| NR Band n2 | 1852.5 | 2.29 | 25.00 | 27.29 | 33.00 | 316.2278 | 0.1066 | 1.0000 | 8.00 | 12.01 | 8.00 | Pass |
| NR Band n5 | 826.5 | 1.64 | 24.50 | 26.14 | 38.45 | 281.8383 | 0.0818 | 0.5510 | 13.95 | 9.92 | 9.92 | Pass |
| NR Band n7 | 2502.5 | 2.77 | 24.50 | 27.27 | 33.00 | 281.8383 | 0.1061 | 1.0000 | 8.50 | 12.51 | 8.50 | Pass |
| NR Band n12 | 701.5 | 0.63 | 24.50 | 25.13 | 34.77 | 281.8383 | 0.0648 | 0.4677 | 10.27 | 9.21 | 9.21 | Pass |
| NR Band n14 | 790.5 | 2.21 | 24.50 | 26.71 | 34.77 | 281.8383 | 0.0933 | 0.5270 | 10.27 | 9.73 | 9.73 | Pass |
| NR Band n25 | 1852.5 | 2.29 | 25.00 | 27.29 | 33.00 | 316.2278 | 0.1066 | 1.0000 | 8.00 | 12.01 | 8.00 | Pass |
| NR Band n30 | 2307.5 | 2.81 | 21.00 | 23.81 | 23.98 | 125.8925 | 0.0478 | 1.0000 | 2.98 | 16.01 | 2.98 | Pass |



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| Operating Band | Frequency (MHz) | Antenna Gain (dBi) | Max Conducted Average Output Power (dBm) | Output Power to Antenna (dBm) | EIRP(ERP) Limit (dBm) | Output Power to Antenna (mw) | Power Density at R = 20 cm (mW/cm2) | Limit (mW/cm2) | Gain according to EIRP (dBi) | Gain according to Pd (dBi) | Max Gain Allowed (dBi) | conclusion |
|-------------------------------------|-----------------|--------------------|--|-------------------------------|-----------------------|------------------------------|-------------------------------------|----------------|------------------------------|----------------------------|------------------------|------------|
| NR Band n41(PC2) | 2503.50 | 3.20 | 27.50 | 30.70 | 33.00 | 562.3413 | 0.2337 | 1.0000 | 5.50 | 9.51 | 5.50 | Pass |
| NR Band n41 UL MIMO | 2503.50 | 3.20 | 27.50 | 30.70 | 33.00 | 562.3413 | 0.2337 | 1.0000 | 5.50 | 9.51 | 5.50 | Pass |
| NR Band n66 | 1712.5 | 3.3 | 25.00 | 28.30 | 30.00 | 316.2278 | 0.1345 | 1.0000 | 5.00 | 12.01 | 5.00 | Pass |
| NR Band n71 | 665.5 | 0.36 | 25.00 | 25.36 | 34.77 | 316.2278 | 0.0683 | 0.4437 | 9.77 | 8.48 | 8.48 | Pass |
| NR Band n77/n78 (3450-3550) | 3455.0 | 2.99 | 27.50 | 30.49 | 30.00 | 562.3413 | 0.2227 | 1.0000 | 2.50 | 9.51 | 2.50 | Pass |
| NR Band n77 (3700-3980) | 3705.0 | 2.99 | 27.50 | 30.49 | 30.00 | 562.3413 | 0.2227 | 1.0000 | 2.50 | 9.51 | 2.50 | Pass |
| NR Band n78 (3700-3800) | 3705.0 | 2.99 | 27.50 | 30.49 | 30.00 | 562.3413 | 0.2227 | 1.0000 | 2.50 | 9.51 | 2.50 | Pass |
| NR Band n77/n78 (3450-3550) UL MIMO | 3455.0 | 2.99 | 27.50 | 30.49 | 30.00 | 562.3413 | 0.2227 | 1.0000 | 2.50 | 9.51 | 2.50 | Pass |
| NR Band n77 (3700-3980) UL MIMO | 3705.0 | 2.99 | 27.50 | 30.49 | 30.00 | 562.3413 | 0.2227 | 1.0000 | 2.50 | 9.51 | 2.50 | Pass |
| NR Band n78 (3700-3800) UL MIMO | 3705.0 | 2.99 | 27.50 | 30.49 | 30.00 | 562.3413 | 0.2227 | 1.0000 | 2.50 | 9.51 | 2.50 | Pass |
| 2.4GWIFI MIMO | 2412.0 | 3.09 | 25.00 | 28.09 | 30.00 | 316.2278 | 0.1282 | 1.0000 | | | | Pass |
| 5GWIFI MIMO | 5320.0 | 3.13 | 23.50 | 26.63 | 30.00 | 223.8721 | 0.0916 | 1.0000 | | | | Pass |

Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

NOTE The corresponding MEs must be expressed in terms of power density in the above summation

Therefore, the worst-case(DC_41A_n41A) situation is 0.2337+0.2337=0.4674, which is less than "1",

$$\sum_{i=1}^n \frac{S_{E_i} (duty\ factor)}{MPE_{E_i}} < 1$$

this confirmed that the device comply with MPE limit.

---End of Report---



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