

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400174004

Page: 1 of 8

TEST REPORT

Application No.: SZCR2504001740WM
Applicant: START USA, INC.
Address of Applicant: 5600 Tennyson Parkway, Suite 390, Plano, TX 75024, USA
Manufacturer: START USA, INC.
Address of Manufacturer: 5600 Tennyson Parkway, Suite 390, Plano, TX 75024, USA
EUT Description: 4G Wireless Home Phone Base
Model No.: SD3200
Trade Mark: IRIS, START
FCC ID: 2AWF6-SD3200
Standards: FCC 47 CFR Part 2.1091
 FCC KDB 447498 D01 v06
Date of Receipt: 2025-04-30
Date of Issue: 2025-07-21

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

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

Keny Xu

Keny Xu

EMC Laboratory Manager



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 Shenzhen Branch Testing & EMC Laboratory

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2025-07-21 | | Original |
| | | | | |
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|--------------------------|--|------------------------------|--|--|
| Authorized for issue by: | | | | |
| | | Darren Yuan | | |
| | | Darren Yuan/Project Engineer | | |
| | | Eric Fu | | |
| | | Eric Fu/Reviewer | | |



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Shenzhen Branch Testing Center Laboratory

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3 General Information

3.1 General Description of EUT

| | | | |
|--|--|------------------|------------------|
| EUT Description: | 4G Wireless Home Phone Base | | |
| Model No.: | SD3200 | | |
| Trade Mark: | IRIS, START | | |
| Hardware Version: | SD3200H3.0 | | |
| Software Version: | SD3200SV1.0.0 | | |
| Power Supply: | Powered by Rechargeable Li-ion Polymer Battery Battery information: Model: SA3000 Nominal Voltage: 3.8V Rated Capacity: 3000mAh Adapter information: Model: XT-C15A Input: 100-240VAC, 50/60Hz, 0.3A Output: 5V, 2A, 10W | | |
| Antenna Type: | WWAN Internal Antenna: FPC Antenna WWAN External Antenna: Dipole Antenna WLAN: FPC Antenna | | |
| Antenna Gain: | Band | Internal Antenna | External Antenna |
| | LTE Band 2 | 3.21dBi | 3.70dBi |
| | LTE Band 4 | 3.22dBi | 2.31dBi |
| | LTE Band 5 | -0.94dBi | 0.39dBi |
| | LTE Band 7 | 2.65dBi | 2.85dBi |
| | LTE Band 12 | -0.16dBi | -2.22dBi |
| | LTE Band 13 | -1.02dBi | 1.78dBi |
| | LTE Band 14 | -0.88dBi | 1.78dBi |
| | LTE Band 25 | 3.21dBi | 3.70dBi |
| | LTE Band 26 (814-824) | -0.94dBi | 0.89dBi |
| | LTE Band 26 (824-829) | -0.94dBi | 0.39dBi |
| | LTE Band 30 | 1.19dBi | 0.30dBi |
| | LTE Band 41 | 2.67dBi | 3.10dBi |
| | LTE Band 66 | 3.22dBi | 3.12dBi |
| | LTE Band 71 | -0.16dBi | -3.91dBi |
| | 2.4G Wi-Fi | 1.26dBi | / |
| 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.

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.3 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.



4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

RF Exposure Evaluation Distance: 20cm

Standalone transmission:

WWAN use Internal Antenna

| Mode | Frequency (MHz) | Maximum Conducted Power (dBm) | Antenna Gain (dBi) | Power Density (mW/cm ²) | Limit of Power Density (mW/cm ²) | Ratio | Verdict |
|-----------------------|-----------------|-------------------------------|--------------------|-------------------------------------|--|---------------|---------|
| LTE Band 2 | 1850.7 | 24 | 3.70 | 0.117 | 1.000 | 0.1172 | Pass |
| LTE Band 4 | 1710.7 | 24 | 2.31 | 0.085 | 1.000 | 0.0851 | Pass |
| LTE Band 5 | 824.7 | 24 | 0.39 | 0.055 | 0.550 | 0.0995 | Pass |
| LTE Band 7 | 2502.5 | 24 | 2.85 | 0.096 | 1.000 | 0.0964 | Pass |
| LTE Band 12 | 699.7 | 24 | -2.22 | 0.030 | 0.466 | 0.0643 | Pass |
| LTE Band 13 | 779.5 | 24 | 1.78 | 0.075 | 0.520 | 0.1450 | Pass |
| LTE Band 14 | 790.5 | 24 | 1.78 | 0.075 | 0.527 | 0.1429 | Pass |
| LTE Band 25 | 1852.5 | 24 | 3.70 | 0.117 | 1.000 | 0.1172 | Pass |
| LTE Band 26 (814-824) | 817 | 24 | 0.89 | 0.061 | 0.545 | 0.1127 | Pass |
| LTE Band 26 (824-849) | 824.7 | 24 | 0.39 | 0.055 | 0.550 | 0.0995 | Pass |
| LTE Band 30 | 2307.5 | 24 | 0.30 | 0.054 | 1.000 | 0.0536 | Pass |
| LTE Band 41 | 2498.5 | 24 | 3.10 | 0.102 | 1.000 | 0.1021 | Pass |
| LTE Band 66 | 1710.7 | 24 | 3.12 | 0.103 | 1.000 | 0.1026 | Pass |
| LTE Band 71 | 665.5 | 24 | -3.91 | 0.020 | 0.444 | 0.0458 | Pass |
| 2.4GWi-Fi | 2412 | 18 | 1.26 | 0.017 | 1.000 | 0.0168 | Pass |

Note: The maximum conducted power is referred to the tune up



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WWAN use External Antenna

| Mode | Frequency (MHz) | Maximum Conducted Power (dBm) | Antenna Gain (dBi) | Power Density (mW/cm ²) | Limit of Power Density (mW/cm ²) | Ratio | Verdict |
|-----------------------|-----------------|-------------------------------|--------------------|-------------------------------------|--|---------------|---------|
| LTE Band 2 | 1850.7 | 24 | 3.21 | 0.105 | 1.000 | 0.1047 | Pass |
| LTE Band 4 | 1710.7 | 24 | 3.22 | 0.105 | 1.000 | 0.1049 | Pass |
| LTE Band 5 | 824.7 | 24 | -0.94 | 0.040 | 0.550 | 0.0732 | Pass |
| LTE Band 7 | 2502.5 | 24 | 2.65 | 0.092 | 1.000 | 0.0920 | Pass |
| LTE Band 12 | 699.7 | 24 | -0.16 | 0.048 | 0.466 | 0.1033 | Pass |
| LTE Band 13 | 779.5 | 24 | -1.02 | 0.040 | 0.520 | 0.0761 | Pass |
| LTE Band 14 | 790.5 | 24 | -0.88 | 0.041 | 0.527 | 0.0775 | Pass |
| LTE Band 25 | 1852.5 | 24 | 3.21 | 0.105 | 1.000 | 0.1047 | Pass |
| LTE Band 26 (814-824) | 817 | 24 | -0.94 | 0.040 | 0.545 | 0.0739 | Pass |
| LTE Band 26 (824-849) | 824.7 | 24 | -0.94 | 0.040 | 0.550 | 0.0732 | Pass |
| LTE Band 30 | 2307.5 | 24 | 1.19 | 0.066 | 1.000 | 0.0658 | Pass |
| LTE Band 41 | 2498.5 | 24 | 2.67 | 0.092 | 1.000 | 0.0925 | Pass |
| LTE Band 66 | 1710.7 | 24 | 3.22 | 0.105 | 1.000 | 0.1049 | Pass |
| LTE Band 71 | 665.5 | 24 | -0.16 | 0.048 | 0.444 | 0.1086 | Pass |
| 2.4GWi-Fi | 2412 | 18 | 1.26 | 0.017 | 1.000 | 0.0168 | Pass |

Note: The maximum conducted power is referred to the tune up

Simultaneous transmission

| Test Mode | 2.4G Wi-Fi | LTE (Internal Antenna) | LTE (External Antenna) | Total Ratio | Limit | Verdict |
|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------|-------|---------|
| Maximum Ratio | 0.0168 | 0.1172 | 0.1086 | N/A | N/A | N/A |
| Scenario 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | 0.1340 | 1.0 | Pass |
| Scenario 2 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | 0.1254 | 1.0 | Pass |

Note: WWAN Band was calculated on worst Band.

The EUT meet the Exemption Limits for Routine Evaluation – SAR Evaluation, so no SAR evaluation is required for the EUT.

---End of Report---



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