



## RF Exposure Evaluation Report

**Application No.:** SZCR2104020387AT  
**Applicant:** Fortinet Inc.  
**Address of Applicant:** 899 Kifer Road, Sunnyvale, California, 94086 United States  
**Manufacturer:** Fortinet, Inc.  
**Address of Manufacturer:** 899 Kifer Road, Sunnyvale, California, 94086 United States  
**Equipment Under Test (EUT):**  
**EUT Name:** Secured Network Extension Device  
**Model No.:** FEX-511F, FortiExtender 511Fxxxxxx, FORTIEXTENDER-511Fxxxxxx, FEX-511Fxxxxxx (where "x" can be "0-9", or "A-Z", or "-", or blank for marketing purposes or software changes only and no Safety or EMC related changes) ♣  
**♣** Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** FORTINET  
**FCC ID:** TVE-251M01  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
47 CFR Part 2.1091  
**Date of Receipt:** 2021-04-07  
**Date of Test:** 2021-04-11 to 2021-07-09  
**Date of Issue:** 2021-07-14

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

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

Keny Xu

Keny Xu  
EMC Laboratory Manager



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

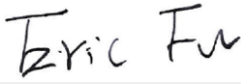
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## 2 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2021-07-14 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |   |  |  |
|--------------------------|--|---|--|--|
| Authorized for issue by: |  |   |  |  |
|                          |  |   |  |  |
|                          |  | Calvin Weng /Project Engineer   |  |  |
|                          |  |  |  |  |
|                          |  | Eric Fu /Reviewer   |  |  |



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## 4 General Information

### 4.1 General Description of EUT

|                             |   |
|-----------------------------|---|
| Power supply:               | DC 12V by adapter.<br>Adapter Model: WA-30P12R<br>Input: AC 100-240V 50/60Hz<br>Output: DC 12V 2.5A |
| For BT                      |   |
| Operation Frequency:        | 2402MHz to 2480MHz  |
| Modulation Type:            | GFSK, pi/4DQPSK, 8DPSK  |
| Number of Channels:         | 79  |
| Channel Spacing:            | 1MHz  |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS)   |
| Antenna Type:               | PIFA Antenna  |
| Antenna Gain:               | 3.5dBi  |
| For BLE                     |   |
| Bluetooth Version:          | V5.0  |
| Operation Frequency:        | 2402MHz to 2480MHz  |
| Modulation Type:            | GFSK  |
| Channel Spacing:            | 2MHz  |
| Data Rate:                  | 1Mbps, 2Mbps  |
| Number of Channels:         | 40  |
| Antenna Type:               | PIFA Antenna  |
| Antenna Gain:               | 3.5dBi  |



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|  |   |
|--|---|
| For WCDMA/LTE  |   |
| Operation Frequency Band:                              | WCDMA Band II/ WCDMA Band V/ WCDMA Band IV<br>LTE FDD Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 48, 66, 71<br>5G NR: n2, n5, n7, n12, n25, n41, n66, n71, n77                                  |
| Modulation Type:                                       | QPSK for WCDMA;<br>QPSK, 16QAM for LTE;   |
| HSDPA UE Category:                                     | 13  |
| HSUPA UE Category:                                     | 6   |
| LTE Release Version:                                   | R8  |
| LTE Power Class:                                       | Level 3   |
| Scs for NR Cell:                                       | FDD Band: 15KHz; TDD Band: 30KHz  |
| Modulation for NR:                                     | UL & DL up to 256QAM  |
| Antenna Type:  | Dipole Antenna  |
| Antenna Gain:  | WCDMA Band II/IV, LTE Band 2/4/7/25/30/38/41/66 and 5G NR n2/7/25/41/66: 3.8 dBi<br>WCDMA Band V, LTE Band 5/12/13/14/17/26/71 and 5G NR n5/12/71: 1.64 dBi<br>LTE Band 48: -0.94dBi; 5G NR n77: 3.35 dBi |
| Based on Module certification(FCC ID: XMR2020RM502QAE) |   |

Remark: The EUT equipped with 5G module Quectel RM502Q-AE which support WCDMA/LTE/5G NR(Based on Module certification, FCC ID: XMR2020RM502QAE)

#### Declaration of EUT Family Grouping:

Model No.: FEX-511F, FortiExtender 511Fxxxxxx, FORTIEXTENDER-511Fxxxxxx, FEX-511Fxxxxxx (where "x" can be "0-9", or "A-Z", or "-", or blank for marketing purposes or software changes only and no Safety or EMC related changes)

Only the model FEX-511F was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on marketing purposes or software with on EMC related changes.



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## 4.2 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, Shenzhen, Guangdong, China.  
518057.

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

## 4.3 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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **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.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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## 5 RF Exposure Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

**TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

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

Friis Formula

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

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

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

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. 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.

#### 5.1.2 Test Procedure

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

#### 4.1.3 EUT RF Exposure Evaluation

**For BT:**

Antenna Gain: 3.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.24 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency<br>(MHz) | Max Conducted<br>Peak Output<br>Power (dBm) | Output Power<br>to Antenna<br>(mW) | Power Density<br>at R = 20 cm<br>(mW/cm <sup>2</sup> ) | Limit | Result |
|--------------------|---|------------------------------------|--|-------|--------|
| 2402               | 5.46  | 3.52                               | 0.0016   | 1.0   | PASS   |

Note: Refer to report No. SZCR210402038702 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

**For BLE:**

Antenna Gain: 3.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.24 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency<br>(MHz) | Max Conducted<br>Peak Output<br>Power (dBm) | Output Power<br>to Antenna<br>(mW) | Power Density<br>at R = 20 cm<br>(mW/cm <sup>2</sup> ) | Limit | Result |
|--------------------|---|------------------------------------|--|-------|--------|
| 2402               | 10.44                                       | 11.07                              | 0.0049   | 1.0   | PASS   |

Note: Refer to report No. SZCR210402038704 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.





For WCDMA/LTE/5G NR

Based on Module certification(FCC ID: XMR2020RM502QAE), refer to report No. 2010RSU005-U8 for WCDMA/LTE/5G NR Module test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

| Test Mode | Maximum Conducted Power (dBm) | Antenna Gain (dBi) | Power (mW) | Power Density at 20cm (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | MPE Ratio |
|-----------|-------------------------------|--------------------|------------|---|-----------------------------|-----------|
| WCDMA B2  | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4476                      | 0.3372    |
| WCDMA B4  | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4242                      | 0.3558    |
| WCDMA B5  | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2576                      | 0.3563    |
| LTE B2    | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4476                      | 0.3372    |
| LTE B4    | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4242                      | 0.3558    |
| LTE B5    | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2576                      | 0.3563    |
| LTE B7    | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.5499                      | 0.2744    |
| LTE B12   | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2302                      | 0.3987    |
| LTE B13   | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2474                      | 0.3710    |
| LTE B14   | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2498                      | 0.3674    |
| LTE B17   | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2313                      | 0.3968    |
| LTE B25   | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4476                      | 0.3372    |
| LTE B26   | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2554                      | 0.3593    |
| LTE B30   | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.5202                      | 0.2901    |
| LTE B38   | 28.00                         | 3.8                | 1513.56    | 0.3011                                      | 0.5604                      | 0.5373    |
| LTE B41   | 28.00                         | 3.8                | 1513.56    | 0.3011                                      | 0.5493                      | 0.5482    |
| LTE B48   | 23.70                         | -0.94              | 188.80     | 0.0304                                      | 0.6988                      | 0.0435    |
| LTE B66   | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4242                      | 0.3558    |
| LTE B71   | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2220                      | 0.4134    |
| n2        | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.4476                      | 0.3372    |
| n5        | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2576                      | 0.3563    |
| n7        | 25.00                         | 3.8                | 758.58     | 0.1509                                      | 0.5499                      | 0.2744    |
| n12       | 25.00                         | 1.64               | 461.32     | 0.0918                                      | 0.2302                      | 0.3987    |





|     |       |      |         |        |        |        |
|-----|-------|------|---------|--------|--------|--------|
| n25 | 25.00 | 3.8  | 758.58  | 0.1509 | 0.4476 | 0.3372 |
| n41 | 28.00 | 3.8  | 1513.56 | 0.3011 | 0.5493 | 0.5482 |
| n66 | 25.00 | 3.8  | 758.58  | 0.1509 | 0.4242 | 0.3558 |
| n71 | 25.00 | 1.64 | 461.32  | 0.0918 | 0.2220 | 0.4134 |
| n77 | 27.00 | 3.35 | 1083.93 | 0.2156 | 0.7189 | 0.3000 |

The simultaneous transmission result between of BTand WCDMA/LTE/5G NR:

The SAR Exclusion Threshold Level:

=CPD1 / LPD1 + CPD2 / LPD2

(CPD = Calculation power density, LPD = Limit of power density)

= 0.0049 +0.5482= 0.5531 < 1

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

- End of the Report -



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