

RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2205000196AT
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.: FortiExtender 201F-AMxxxxxxxxxx,
 FORTIEXTENDER-201F-AMxxxxxxxxxx, FEX-201F-AMxxxxxxxxxx(where
 "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or
 marketing purposes only) ♣
 ♣ Please refer to section 3.1 of this report which indicates which model was
 actually tested and which were electrically identical.
Trade Mark: FORTINET
FCC ID: TVE-2401M01A
Standard(s) : 47 CFR Part 1.1307
 47 CFR Part 1.1310
 47 CFR Part 2.1091
Date of Receipt: 2022-05-26
Date of Evaluation: 2022-06-24 to 2022-07-12
Date of Issue: 2022-07-19

Evaluation Result:

Pass*

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



Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-19		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power supply:	DC 12V by AC adapter or POE adapter. AC adapter, model: WA-36W12R Input: AC 100-240V, 50/60Hz. 0.9A Max Output: DC 12V, 3.0A, 36.0W POE Adapter: PD-9001GR/AC Input: AC 100-240V 50/60Hz, 0.67A Output: DC 55V 0.6A The EUT support two type adapters (AC to DC adapter and POE adapter), all the mode had been tested and only record the worst case in the report.
Cable(s):	DC cable from the adapter 150cm without core; 3 PCS antennas 21.5cm
For BT:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
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:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Data Rate:	1M/bps, 2M/bps
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	3.5dBi



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For WCDMA/LTE	
Operation Frequency Band:	WCDMA Band II/IV/V, LTE Band 2/4/5/7/12/13/14/25/26/41/48/66/71 LTE CA Band 5B, LTE CA Band 7C, LTE CA Band 41C
Modulation Type:	QPSK, 16QAM, 64QAM, 256QAM
HSDPA UE Category:	13
HSUPA UE Category:	6
LTE Power Class:	Level 3
Antenna Type:	Dipole Antenna
Antenna Gain:	WCDMA Band II: 2.29dBi, WCDMA Band IV: 1.95dBi, WCDMA Band V: 1.74dBi, LTE Band 2: 2.29dBi, LTE Band 4: 1.95dBi, LTE Band 5: 1.74dBi, LTE Band 7: 2.11dBi, LTE Band 12: 1.72dBi, LTE Band 13: 1.66dBi, LTE Band 14: 1.49dBi, LTE Band 25: 2.29dBi, LTE Band 26: 1.74dBi, LTE Band 41: 2.45dBi, LTE Band 66: 1.97dBi, LTE Band 71: 1.77dBi, LTE CA Band 7C: 2.11dBi, LTE CA Band 41C: 2.45dBi, LTE CA Band 5B: 1.74dBi, LTE Band 48: -0.38dBi
Based on Module certification (FCC ID: N7NEM74B)	

Declaration of EUT Family Grouping:

Model No.: FortiExtender 201F-AMxxxxxxxxxx, FORTIEXTENDER-201F-AMxxxxxxxxxx,
FEX-201F-AMxxxxxxxxxx(where "x" can be used as "A-Z", or "0-9", or "-", or blank for software
changes or marketing purposes only)

Only the model FEX-201F-AM was tested, since according to the declaration from the applicant, the
electrical circuit design, PCB layout, components used, internal wiring and functions were identical for
all the above models, with only difference as below: "x" can be used as "A-Z", or "0-9", or "-", or blank
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3.2 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

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

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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 (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

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 and receive data at lowest, middle and highest channel individually.



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4.2 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 (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2480	8.34	6.82	0.003	1.0	PASS

Note: Refer to report No. FYCR220500019601 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 (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2402	10.05	10.12	0.0045	1.0	PASS

Note: Refer to report No. FYCR220500019602 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 standalone WCDMA/LTE

Based on Module certification(FCC ID: N7NEM74B), refer to the Module certification EM7411 for WCDMA/LTE 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.



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Test Mode	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Power (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
WCDMA B2	24.00	2.29	251.19	0.0845	1	0.0845
WCDMA B4	24.00	1.95	251.19	0.0785	1	0.0785
WCDMA B5	24.00	1.74	251.19	0.0745	0.566	0.1316
LTE B2	24.00	2.29	251.19	0.0845	1	0.0845
LTE B4	24.00	1.95	251.19	0.0785	1	0.0785
LTE B5	24.00	1.74	251.19	0.0745	0.566	0.1316
LTE B7	24.00	2.11	251.19	0.0815	1	0.0815
LTE B12	24.00	1.72	251.19	0.0685	0.477	0.1436
LTE B13	24.00	1.66	251.19	0.0735	0.523	0.1405
LTE B14	24.00	1.49	251.19	0.0705	0.532	0.1325
LTE B25	24.00	2.29	251.19	0.0845	1	0.0845
LTE B26	24.00	1.74	251.19	0.0745	0.596	0.125
LTE B41	24.00	2.45	251.19	0.088	1	0.088
LTE B48	23.00	-0.38	199.53	0.0365	1	0.0365
LTE B66	24.00	1.97	251.19	0.0785	1	0.0785
LTE B71	24.00	1.77	251.19	0.075	0.435	0.1724
LTE CA Band 5B	24.00	1.74	251.19	0.0745	0.566	0.1316
LTE CA Band 7C	24.00	2.11	251.19	0.0815	1	0.0815
LTE CA Band 41C	24.00	2.45	251.19	0.088	1	0.088

The simultaneous transmission result between of BT and WCDMA/LTE module:

The SAR Exclusion Threshold Level:

=CPD1 / LPD1 + CPD2 / LPD2

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

= 0.0045 + 0.1724 = 0.1769 < 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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