

ACCREDITED
CERT #3816.01

Report No.: SZEM190901809805

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RF Exposure Evaluation Report

Application No.: SZEM1909018098CR

Applicant: Furrion Ltd.

Address of Applicant: Unit 503c & 505-508, Level 5, Core D, Cyberport 3, 100 Cyberport Road, Hong

Kong.

Manufacturer: Furrion Ltd.

Address of Unit 503c & 505-508, Level 5, Core D, Cyberport 3, 100 Cyberport Road, Hong

Manufacturer: Kong.

Product Name: LTE WiFi Router-Unlocked Model No.: FAN17B8F, FAN17B87 ♣

Please refer to section 4.1 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: FURRION

FCC ID: 2ABH3-FAN17B

47 CFR Part 1.1307

Standards: 47 CFR Part 1.1310

47 CFR Part 2.1091

Date of Receipt: 2019-09-02

Date of Test: 2019-09-05 to 2019-09-28

Date of Issue: 2019-10-08

Test Result : PASS*

Keny Xu EMC Laboratory Manager



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



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2 Version

Revision Record									
Version	Chapter	Date	Modifier	Remark					
01		2019-10-08		Original					

Authorized for issue by:		
	Robsonti	
	Edison Li /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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4 General Information

4.1 General Description of EUT

Power supply: DC 12V								
Internal source:	More than 10	8MHz						
For 2.4G WiFi(MT7603):							
Type of Modulation:	802.11b: DSS	SS (CCK, DQPSK, DBPSK)						
	802.11g: OF	302.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)						
	`	20/HT40): OFDM (64QAM, 16Q	AM, QPSK, BPSK)					
Operating Frequency:		HT20): 2412MHz to 2462MHz						
	,	0): 2422MHz to 2452MHz						
Channel Number:		HT20): 11 Channels						
	,	0): 7 Channels						
Channels Step:	Channels with	n 5MHz step						
Sample Type:	Fixed product	tion						
Antenna Type:	Integral							
Antenna Gain:	Antenna1/Ant	tenna2:2dBi						
		nnas can simultaneous transmi	ssion.					
For 2.4G WiFi(RTL819	2ee):							
Type of Modulation:		SS (CCK, DQPSK, DBPSK)						
		DM (64QAM, 16QAM, QPSK, B	,					
	`	20/HT40): OFDM (64QAM, 16Q	AM, QPSK, BPSK)					
Operating Frequency:	• `	HT20): 2412MHz to 2462MHz						
	,	0): 2422MHz to 2452MHz						
Channel Number:		n(HT20): 11 Channels						
	· · · · · · · · · · · · · · · · · · ·	0): 7 Channels						
Channels Step:	Channels with	n 5MHz step						
Sample Type:	Fixed product	tion						
Antenna Type:	External							
Antenna Gain:	Antenna3/Ant	tenna4:4dBi						
	The two anter	nnas can simultaneous transmi	ssion.					
For 5G WiFi(MT7612E)):							
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels				
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4				
		802.11n(HT40)/ac(HT40)	5190-5230	2				
		802.11ac(HT80)	5210	1				
	UNII Band	802.11a/n(HT20)/ac(HT20)	5745-5825	5				
	III	802.11n(HT40)/ac(HT40)	5755-5795	2				



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		802	2.11ac(HT80)	5775	1			
	802 11a: OEF		, ,					
Modulation Type:	802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)							
		,	(BPSK, QPSK, 16QAM, 64 (BPSK, QPSK, 16QAM, 64	,				
			(DESK, QESK, TOQAIVI, 04	QAIVI, 200QAIVI)				
Sample Type:	Fixed product	ixed production						
Antenna Type:	Integral							
Antenna Gain:	Antenna5/Ant	tenna	a6:2dBi					
Antonna Gain.	The two anter	nnas	can simultaneous transmi	ssion				
For WCDMA/LTE mode	ule*:							
Operation Frequency	WCDMA Ban	ıd II,I\	V,V; LTE FDD Band 2,4,5,	12,13,14,66,71				
Band:								
	WCDMA: QPSK							
Modulation Type:	LTE: QPSK, 16QAM							
HSDPA UE Category:	24							
HSUPA UE Category:	6							
LTE Category:	4							
Antenna Type:	External							
Antonno Douto	Tx & Rx Port		1					
Antenna Ports:	Rx-only Port		1					
Antenna Gain:	Antenna3:4dBi							

^{*:} The WCDMA/LTE single module approval by TCB(FCC ID:XMR201808EC25AF).



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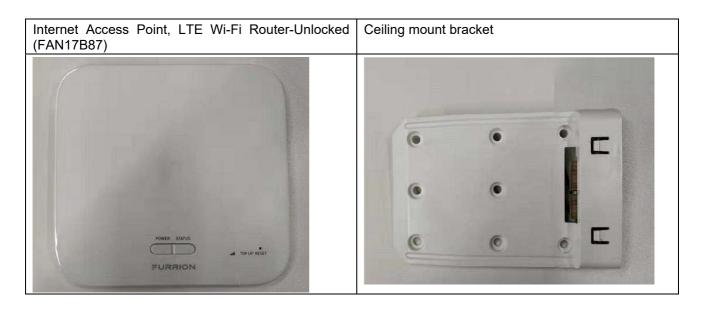
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Declaration of EUT Family Grouping:

Model No.: FAN17B8F, FAN17B87

Only the model FAN17B8F was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, only the difference as below:

	, ,
Model	Description
FAN17B8F	Internet Access Point, LTE and Wi-Fi Router SIM Swappable with ceiling mount
	bracket
FAN17B87	Internet Access Point, LTE and Wi-Fi Router SIM Swappable without ceiling
	mount bracket





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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

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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 (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposures										
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6						
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure							
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30						

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R²)

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

For Uncontrolled Environment, the MPE limit of 300MHz to 1500MHz is f/1500 mW/cm², the MPE limit of 1500MHz to 100000MHz is 1.0 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.

5.1.2 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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5.1.3 EUT RF Exposure Evaluation

1) Test Results

Note: The 2.4G WiFi(RTL8192ee) and WCDMA/LTE module cannot synchronous transmission at the same time.

The 2.4G WiFi(MT7603), 5G WiFi(MT7612E) and WCDMA/LTE module can synchronous transmission at the same time.

For 2.4G WiFi(MT7603 module):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant1+2	2	1.58	20.11	102.57	0.0323	1	0.0323	PASS

Note: Refer to report No. SZEM190901809802 or EUT test Max Conducted Peak Output Power value. The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G WiFi(RTL8192ee module):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
	,	,	(dBm)	(mW)	,			
Ant3+4	4	1.58	17.79	60.12	0.0300	1	0.0300	PASS

Note: Refer to report No. SZEM190901809803 or EUT test Max Conducted Peak Output Power value. The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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For 5G WiFi:

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Note: Refer to report No. SZEM190901809804 or EUT test Max Conducted Peak Output Power value.

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

For WCDMA Band V/ LTE Band 5(824MHz-849MHz):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant3	4	2.51	25	316.23	0.1580	0.5498	0.2874	PASS

Note: Refer to report No. R1806A0301-R1V1 or EUT test Max Conducted Peak Output Power value.

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

For WCDMA Band II/ LTE Band 2(1850MHz-1910MHz):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant3	4	2.51	25	316.23	0.1580	1	0.1580	PASS

Note: Refer to report No. R1806A0301-R2V1 or EUT test Max Conducted Peak Output Power value.

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



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For WCDMA Band IV, LTE Band 4(1710MHz-1755MHz) / LTE Band 66(1710MHz-1780MHz):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant3	1 4	2.51	25	316.23	0.1580	1 1	0.1580	PASS

Note: Refer to report No. R1806A0301-R3V1 or EUT test Max Conducted Peak Output Power value.

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

For LTE Band 12(699MHz-716MHz), LTE Band 13(777MHz-787MHz), LTE Band 71(663MHz-698MHz):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm ²)	MPE Ratios	Result
Ant3	4	2.51	25	316.23	0.1580	0.4437	0.3562	PASS

Note: Refer to report No. R1806A0301-R3V1 or EUT test Max Conducted Peak Output Power value.

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

For LTE Band 14(788MHz-798MHz):

The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Antenna	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
Ant3	4	2.51	25	316.23	0.1580	0.5270	0.2999	PASS

Note: Refer to report No. R1806A0301-R4V1 or EUT test Max Conducted Peak Output Power value.

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



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The simultaneous transmission result between of 2.4G WiFi(MT7603), 5G WiFi and WCDMA/LTE:

The SAR Exclusion Threshold Level:

=CPD1 / LPD1 + CPD2 / LPD2 + CPD3 / LPD3

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

= (0.0323/1) + (0.0112/1) + (0.1580/0.4437) = 0.3997 < 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 Report



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