

FCC RF EXPOSURE REPORT

For

Wireless Router

MODEL NUMBER: SR120-A

FCC ID: 2AV2N-SR120A

IC: 26145-SR120A

REPORT NUMBER: 4789430346-5

ISSUE DATE: May 20, 2020

Prepared for

Fiberhome Telecommunication Technologies Co., Ltd.
No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei Province, P.R.China

Prepared by

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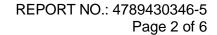




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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Fiberhome Telecommunication Technologies Co., Ltd.

Address: No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei

Province, P.R.China

Manufacturer Information

Company Name: Fiberhome Telecommunication Technologies Co., Ltd.

Address: No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei

Province, P.R.China

EUT Description

EUT Name: Wireless Router

Model: SR120-A
Brand: FiberHome
Sample Status: Normal
Sample ID: 2978107
Sample Received Date: March 25, 2020

Date of Tested: March 26, 2020 ~ May 20, 2020

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
FCC 47CFR§2.1091	PASS		
KDB-447498 D01 V06	PASS		

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name:
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

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4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f2)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/150	30	
1500-100,000			1.0	30	

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

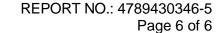
 $S = PG/(4\pi R^2)$

where: S = power density (in appropriate units, e.g. mW/ cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)





CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI 2.4G (Worst case)					
Operating	Max. Tune up Power	Directional Gain		Power density	Limit
Mode	(dBm)	(dBi)	(num)	(mW/cm ²)	Liiiii
802.11n HT20	21	8	6.31	0.1581	1

WIFI 5G (Worst case)						
Operating	Max. Tune up Power	Directional Gain		Power density	Limit	
Mode	(dBm)	(dBi)	(num)	(mW/cm ²)	Liiiik	
802.11n HT20	22	8.17	6.56	0.2069	1	

Note: 1. All the power comes from turn up power which were declared by customer.

- 2. The minimum calculate separation distance of the device is greater than 20 cm.
- 3. The 2.4G and 5G transmitter support Tx simultaneously, the combined power density is 0.1581+0.2069=0.365mW/cm² less than 1mW/cm².

END OF REPORT