

Test Report

Verified code: 137477

Report No.: E202109052880-5

Customer: Fiberhome Telecommunication Technologies Co., Ltd.

Address: No.88 Youkeyuan Lu, Hongshan District 430032 Wuhan,Hubei PEOPLE'S REPUBLIC OF CHINA

Sample Name: Wireless Router

Sample Model: SR1021Y

Receive Sample Date: Sep.15,2021

Test Date: Sep.15,2021 ~ Nov.20,2021

Reference Document: CFR 47, FCC Part 2.1091 Radio frequency radiation exposure evaluation: mobile devices.
KDB 447498 D01 General RF Exposure Guidance v06

Test Result: Pass

Prepared By: Yang Zhaoyun

Reviewed By:

Jiang Tao

Approved By: Xiao Liang

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2022-01-04

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Address: No.163 Xipingyun Road, Huangpu Avenue, Tianhe District, Guangzhou (510656)
Tel: (+86) 400-602-0999 FAX: (+86) 020-38698685 Web: <http://www.grgtest.com>



Statement

1. The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.
2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

----- The following blanks -----

Table of Contents

1.	GENERAL DESCRIPTION OF EUT.....	4
1.1.	APPLICANT	4
1.2.	MANUFACTURER.....	4
1.3.	FACTORY	4
1.4.	BASIC DESCRIPTION OF EQUIPMENT UNDER TEST	4
2.	LABORATORY AND ACCREDITATIONS	7
2.1.	LABORATORY	7
2.2.	ACCREDITATIONS	7
3.	EVALUATION METHOD.....	8
4.	LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE	8
5.	CALCULATION METHOD	9
6.	ESTIMATION RESULT	10
6.1.	CONDUCTED POWER RESULTS	10
6.2.	MANUFACTURING TOLERANCE	14
6.3.	MEASUREMENT RESULTS	16
6.3.1.	STANDALONE MPE	16
7.	CONCLUSION	19

----- The following blanks -----

1. GENERAL DESCRIPTION OF EUT

1.1. APPLICANT

Name: Fiberhome Telecommunication Technologies Co., Ltd.
Address: No.88 Youkeyuan Lu, Hongshan District 430032 Wuhan,Hubei PEOPLE'S
REPUBLIC OF CHINA

1.2. MANUFACTURER

Name: Fiberhome Telecommunication Technologies Co., Ltd.
Address: No.88 Youkeyuan Lu, Hongshan District 430032 Wuhan,Hubei PEOPLE'S
REPUBLIC OF CHINA

1.3. FACTORY

Name: Fiberhome Telecommunication Technologies Co., Ltd.
Address: No.88 Youkeyuan Lu, Hongshan District 430032 Wuhan,Hubei PEOPLE'S
REPUBLIC OF CHINA

1.4. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Wireless Router
Model No.: SR1021Y
Adding Model: /
Trade Name: FiberHome
FCC ID: 2AV2N-SR1021Y
Power Supply: DC12V power supplied by adapter
Adapter Specification: Adapter 1: KL-WA120150-D
Input:100-240V~50/60Hz 0.7A
Output:12.0V 1.5A
Adapter 2: RD1201500-C55-153MG
Input:100-240V~50/60Hz 0.6A
Output:12.0V 1.5A
Frequency Range: 2.4G wifi:
2412MHz-2462MHz for 802.11b/g/n HT20/ax HE20
2422MHz-2452MHz: 802.11n HT40/ax HE40
5G wifi:
U-NII-1: 5150 MHz~5250 MHz
U-NII-2A: 5250 MHz~5350 MHz
U-NII-2C: 5470 MHz~5725 MHz
U-NII-3: 5725 MHz~5850 MHz

Transmit Power:

2.4G wifi:

18.57dBm for 802.11b mode (antenna 1)
19.10dBm for 802.11b mode (antenna 2)
24.82dBm for 802.11g mode (antenna 1)
24.85dBm for 802.11g mode (antenna 2)
27.94dBm for 802.11n HT20 mode(MIMO)
27.82dBm for 802.11ax HE20 mode(MIMO)
27.81dBm for 802.11n HT40 mode(MIMO)
27.77dBm for 802.11ax HE40 mode(MIMO)

5G wifi:

U-NII-1:

20.78dBm for IEEE 802.11a (antenna 1)
21.01dBm for IEEE 802.11a (antenna 2)
24.17dBm for IEEE 802.11n HT20(MIMO)
21.88dBm for IEEE 802.11ac VHT20(MIMO)
20.29dBm for IEEE 802.11ax HE20(MIMO)
23.33dBm for IEEE 802.11n HT40(MIMO)
22.61dBm for IEEE 802.11ac VHT40(MIMO)
17.97dBm for IEEE 802.11ax HE40(MIMO)
17.72dBm for IEEE 802.11ac VHT80(MIMO)
17.20dBm for IEEE 802.11ax HE80(MIMO)

U-NII-2A:

20.58dBm for IEEE 802.11a (antenna 1)
21.29dBm for IEEE 802.11a (antenna 2)
20.64dBm for IEEE 802.11n HT20(MIMO)
20.62dBm for IEEE 802.11ac VHT20(MIMO)
19.93dBm for IEEE 802.11ax HE20(MIMO)
21.72dBm for IEEE 802.11n HT40(MIMO)
23.00dBm for IEEE 802.11ac VHT40(MIMO)
18.61dBm for IEEE 802.11ax HE40(MIMO)
19.30dBm for IEEE 802.11ac VHT80(MIMO)
18.12dBm for IEEE 802.11ax HE80(MIMO)

U-NII-2C:

20.59dBm for IEEE 802.11a (antenna 1)
20.73dBm for IEEE 802.11a (antenna 2)
20.46dBm for IEEE 802.11n HT20(MIMO)
23.46dBm for IEEE 802.11ac VHT20(MIMO)
21.45dBm for IEEE 802.11ax HE20(MIMO)
22.75dBm for IEEE 802.11n HT40(MIMO)
23.10dBm for IEEE 802.11ac VHT40(MIMO)
22.39dBm for IEEE 802.11ax HE40(MIMO)
23.37dBm for IEEE 802.11ac VHT80(MIMO)
23.29dBm for IEEE 802.11ax HE80(MIMO)

U-NII-3:

17.48dBm for IEEE 802.11a (antenna 1)
17.52dBm for IEEE 802.11a (antenna 2)
22.35dBm for IEEE 802.11n HT20(MIMO)
21.60dBm for IEEE 802.11ac VHT20(MIMO)

	20.93dBm for IEEE 802.11ax HE20(MIMO) 23.48dBm for IEEE 802.11n HT40(MIMO) 21.63dBm for IEEE 802.11ac VHT40(MIMO) 22.76dBm for IEEE 802.11ax HE40(MIMO) 23.79dBm for IEEE 802.11ac VHT80(MIMO) 22.50dBm for IEEE 802.11ax HE80(MIMO)
Modulation type:	2.4G wifi: DSSS for 802.11b mode; OFDM for 802.11g/n mode OFDMA for 802.11ax mode 5G wifi: OFDM for 802.11g/n/ac mode OFDMA for 802.11ax mode
Channel space:	2.4G wifi:5MHz 5G wifi: IEEE 802.11a: 20MHz IEEE 802.11n HT20: 20MHz IEEE 802.11n HT40: 40MHz IEEE 802.11ac VHT20: 20MHz IEEE 802.11ac VHT40: 40MHz IEEE 802.11ac VHT80: 80MHz IEEE 802.11ax HE20: 20MHz IEEE 802.11ax HE40: 40MHz IEEE 802.11ax HE80: 80MHz
Antenna Specification:	2.4G wifi: Internal antenna 1 with 3.95dBi gain (Max) Internal antenna 2 with 3.95dBi gain (Max) 5G wifi: U-NII-1: External antenna 1 with 3.26dBi gain (Max.) External antenna 2 with 3.26dBi gain (Max.) U-NII-2A: External antenna 1 with 3.20dBi gain (Max.) External antenna 2 with 3.20dBi gain (Max.) U-NII-2C: External antenna 1 with 3.26dBi gain (Max.) External antenna 2 with 3.26dBi gain (Max.) U-NII-3: External antenna 1 with 3.75dBi gain (Max.) External antenna 2 with 3.75dBi gain (Max.)
Temperature Range:	-5℃ ~ 45℃
Hardware Version:	/
Software Version:	V1.0
Sample No:	E202109052880-0002, E202109052880-0003, E202109052880-0004
Note:	/

2. LABORATORY AND ACCREDITATIONS

2.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China.
P.C.: 518000
Tel : 0755-61180008
Fax: 0755-61180008

2.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate #2861.01)

China CNAS(L0446)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

----- The following blanks -----

3. EVALUATION METHOD

Exposure category: General population/uncontrolled environment

EUT Type: Production Unit

Device Type: Mobile Device

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

4. LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

(B)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/cm ²)	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/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100,000	/	/	1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

5. CALCULATION METHOD

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where: S=power density

P=power input to antenna

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

R=distance to the center of radiation of the antenna

From the EUT RF output power, the minimum mobile separation distance, $d=0.2\text{m}$, as well as the maximum gain of the used as following information, the RF power density can be obtained.

Frequency Band	Antenna type	Internal Identification		Maximum antenna gain
2.4GHz	External antenna	Antenna 1		3.95dBi
		Antenna 2		3.95dBi
5GHz	External antenna	Antenna 1	U-NII-1	3.26dBi
			U-NII-2A	3.20dBi
			U-NII-2C	3.26dBi
			U-NII-3	3.75dBi
		Antenna 2	U-NII-1	3.26dBi
			U-NII-2A	3.20dBi
			U-NII-2C	3.26dBi
			U-NII-3	3.75dBi

----- The following blanks -----

6. ESTIMATION RESULT

6.1. CONDUCTED POWER RESULTS

2.4G wifi

Antenna	Mode	Frequency(MHz)	Peak Conducted Output Power (dBm)
Antenna 1	IEEE 802.11b	2412	18.45
		2437	18.55
		2462	18.57
	IEEE 802.11g	2412	24.82
		2437	24.82
		2462	24.82
	IEEE 802.11n HT20	2412	24.88
		2437	24.90
		2462	24.89
	IEEE 802.11n HT40	2422	24.86
		2437	24.82
		2452	24.74
	IEEE 802.11ax HE20	2412	24.75
		2437	24.79
		2462	24.62
	IEEE 802.11ax HE40	2422	24.61
		2437	24.75
		2452	24.60

Antenna	Mode	Frequency(MHz)	Peak Conducted Output Power (dBm)
Antenna 2	IEEE 802.11b	2412	18.95
		2437	19.04
		2462	19.10
	IEEE 802.11g	2412	24.85
		2437	24.84
		2462	24.82
	IEEE 802.11n HT20	2412	24.83
		2437	24.96
		2462	24.83
	IEEE 802.11n HT40	2422	24.74
		2437	24.74
		2452	24.74
	IEEE 802.11ax HE20	2412	24.80
		2437	24.83
		2462	24.77
	IEEE 802.11ax HE40	2422	24.78
		2437	24.76

		2452	24.65
--	--	------	-------

5GHz WIFI

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power (dBm)	
			antenna 1	antenna 2
802.11a	U-NII-1	5180	20.56	20.76
		5200	20.47	20.66
		5240	20.78	21.01
	U-NII-2A	5260	19.65	19.88
		5300	20.58	20.74
		5320	19.69	21.29
	U-NII-2C	5500	19.29	20.06
		5580	20.59	20.73
		5700	19.01	19.12
	U-NII-3	5745	17.48	17.52
		5785	17.27	17.29
		5825	17.09	17.39
802.11n HT20	U-NII-1	5180	21.03	20.98
		5200	20.75	21.48
		5240	21.55	20.72
	U-NII-2A	5260	17.85	17.39
		5300	17.56	17.37
		5320	16.45	18.08
	U-NII-2C	5500	16.88	17.09
		5580	17.89	16.95
		5700	16.72	15.02
	U-NII-3	5745	17.22	15.86
		5785	19.01	17.99
		5825	19.05	19.60
IEEE 802.11ac VHT20	U-NII-1	5180	18.79	18.23
		5200	18.19	18.17
		5240	19.56	18.05
	U-NII-2A	5260	17.80	17.31
		5300	18.07	17.07
		5320	17.53	17.69
	U-NII-2C	5500	19.96	19.36
		5580	20.41	20.49
		5700	18.08	16.83
	U-NII-3	5745	17.63	16.53
		5785	18.92	18.22
		5825	17.93	19.07
802.11n HT40	U-NII-1	5190	17.57	17.84
		5230	20.73	19.85

	U-NII-2A	5270	18.58	18.83
		5310	16.77	18.70
	U-NII-2C	5510	18.25	18.52
		5550	20.26	19.14
		5670	16.98	18.10
	U-NII-3	5755	21.16	19.63
		5795	20.69	20.13
802.11ac VHT40	U-NII-1	5190	16.29	17.15
		5230	19.18	19.98
	U-NII-2A	5270	20.13	19.84
		5310	13.81	15.27
	U-NII-2C	5510	17.08	17.81
		5550	20.59	19.51
		5670	15.85	15.63
	U-NII-3	5755	19.23	17.91
		5795	18.77	17.85
802.11ac VHT80	U-NII-1	5210	14.84	14.57
	U-NII-2A	5290	16.02	16.54
	U-NII-2C	5530	15.38	15.82
		5610	20.80	19.86
	U-NII-3	5775	21.52	19.88
802.11ax HE20	U-NII-1	5180	15.01	14.62
		5200	17.41	17.15
		5240	17.12	15.32
	U-NII-2A	5260	16.06	15.87
		5300	16.74	16.27
		5320	16.09	17.62
	U-NII-2C	5500	16.05	17.18
		5580	18.57	18.32
		5700	16.55	15.21
	U-NII-3	5745	16.53	16.04
		5785	18.04	17.81
		5825	16.60	17.93
802.11ax HE40	U-NII-1	5190	13.92	14.97
		5230	15.29	14.60
	U-NII-2A	5270	15.16	15.63
		5310	14.25	16.62
	U-NII-2C	5510	15.59	15.56
		5550	19.71	19.03
		5670	16.87	17.08

	U-NII-3	5755	20.21	19.24
		5795	19.82	19.17
802.11ax HE80	U-NII-1	5210	13.91	14.46
	U-NII-2A	5290	15.08	15.14
	U-NII-2C	5530	16.15	17.00
		5610	20.50	20.05
	U-NII-3	5775	19.98	18.94

----- The following blanks -----

6.2. MANUFACTURING TOLERANCE

Frequency (MHz)	2.4G Wifi-Antenna 1					
	IEEE 802.11b	IEEE 802.11g	IEEE 802.11n HT20	IEEE 802.11ax HE20	IEEE 802.11n HT40	IEEE 802.11ax HE40
	2462	2412	2437	2437	2422	2437
Target (dBm)	19.0	25.0	25.0	25.0	25.0	25.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0

Frequency (MHz)	2.4G Wifi-Antenna 2					
	IEEE 802.11b	IEEE 802.11g	IEEE 802.11n HT20	IEEE 802.11ax HE20	IEEE 802.11n HT40	IEEE 802.11ax HE40
	2462	2412	2437	2437	2422	2422
Target (dBm)	19.0	25.0	25.0	25.0	25.0	25.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0

Frequency (MHz)	5G Wifi-Antenna 1			
	802.11a	802.11n HT20	802.11ac VHT20	802.11n HT40
	5580	5240	5580	5755
Target (dBm)	21.0	22.0	21.0	22.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0

Frequency (MHz)	5G Wifi-Antenna 2			
	802.11a	802.11n HT20	802.11ac VHT20	802.11n HT40
	5320	5200	5580	5795
Target (dBm)	22.0	22.0	21.0	21.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0

Frequency (MHz)	5G Wifi-Antenna 1		5G Wifi-Antenna 2	
	802.11ac VHT40	802.11ac VHT80	802.11ac VHT40	802.11ac VHT80
	5550	5775	5230	5775
Target (dBm)	21.0	22.0	20.0	20.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0

Frequency (MHz)	5G Wifi-Antenna 1		
	802.11ax HE20	802.11ax HE40	802.11ax HE80
	5580	5755	5610
Target (dBm)	19.0	21.0	21.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

Frequency (MHz)	5G Wifi-Antenna 2		
	802.11ax HE20	802.11ax HE40	802.11ax HE80
	5580	5755	5610
Target (dBm)	19.0	20.0	21.0
Tolerance ±(dB)	1.0	1.0	1.0

----- The following blanks -----

6.3. MEASUREMENT RESULTS

6.3.1. STANDALONE MPE

2.4G wifi

Antenna 1

Mode	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	(dBm)	(mW)					
IEEE 802.11b	19.0	79.4328	3.95	2.4831	97.52%	0.0393	1.0000
IEEE 802.11g	25.0	316.2278	3.95	2.4831	96.04%	0.1563	1.0000
IEEE 802.11n HT20	25.0	316.2278	3.95	2.4831	86.20%	0.1563	1.0000
IEEE 802.11n HT40	25.0	316.2278	3.95	2.4831	77.17%	0.1563	1.0000
IEEE 802.11ax HE20	25.0	316.2278	3.95	2.4831	84.90%	0.1563	1.0000
IEEE 802.11ax HE40	25.0	316.2278	3.95	2.4831	84.90%	0.1563	1.0000

Antenna 2

Mode	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	(dBm)	(mW)					
IEEE 802.11b	19.0	79.4328	3.95	2.4831	97.52%	0.0393	1.0000
IEEE 802.11g	25.0	316.2278	3.95	2.4831	96.04%	0.1563	1.0000
IEEE 802.11n HT20	25.0	316.2278	3.95	2.4831	86.20%	0.1563	1.0000
IEEE 802.11n HT40	25.0	316.2278	3.95	2.4831	77.17%	0.1563	1.0000
IEEE 802.11ax HE20	25.0	316.2278	3.95	2.4831	84.90%	0.1563	1.0000
IEEE 802.11ax HE40	25.0	316.2278	3.95	2.4831	84.90%	0.1563	1.0000

----- The following blanks -----

5G wifi

Antenna 1

Mode	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	(dBm)	(mW)					
IEEE 802.11a	21.0	125.8925	3.26	2.1184	95.50%	0.0531	1.0000
IEEE 802.11n HT20	22.0	158.4893	3.26	2.1184	95.21%	0.0668	1.0000
IEEE 802.11n HT40	22.0	158.4893	3.75	2.3714	85.43%	0.0748	1.0000
IEEE 802.11ac VHT20	21.0	125.8925	3.26	2.1184	92.23%	0.0531	1.0000
IEEE 802.11ac VHT40	21.0	125.8925	3.26	2.1184	85.68%	0.0531	1.0000
IEEE 802.11ac VHT80	22.0	158.4893	3.75	2.3714	34.18%	0.0748	1.0000
IEEE 802.11ax HE20	19.0	79.4328	3.26	2.1184	85.17%	0.0335	1.0000
IEEE 802.11ax HE40	21.0	125.8925	3.75	2.3714	84.90%	0.0594	1.0000
IEEE 802.11ax HE80	21.0	125.8925	3.26	2.1184	78.36%	0.0531	1.0000

Antenna 2

Mode	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	Duty Cycle	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	(dBm)	(mW)					
IEEE 802.11a	22.0	158.4893	3.20	2.1184	95.50%	0.0668	1.0000
IEEE 802.11n HT20	22.0	158.4893	3.26	2.1184	95.21%	0.0668	1.0000
IEEE 802.11n HT40	21.0	125.8925	3.75	2.3714	85.43%	0.0594	1.0000
IEEE 802.11ac VHT20	21.0	125.8925	3.26	2.1184	92.23%	0.0531	1.0000
IEEE 802.11ac VHT40	20.0	100.0000	3.26	2.1184	85.68%	0.0422	1.0000
IEEE 802.11ac VHT80	20.0	100.0000	3.75	2.3714	34.18%	0.0472	1.0000
IEEE 802.11ax HE20	19.0	79.4328	3.26	2.1184	85.17%	0.0335	1.0000
IEEE 802.11ax HE40	20.0	100.0000	3.75	2.3714	84.90%	0.0472	1.0000
IEEE 802.11ax HE80	21.0	125.8925	3.26	2.1184	78.36%	0.0531	1.0000

Remark: 1. Maximum average power including tune-up tolerance;

2. MPE use distance is 20cm from manufacturer declaration of user manual.

----- The following blanks -----

Antenna 1 and Antenna 2 for 2.4G WLAN and 5G WLAN

Band	Mode	MPE Ratio (mW/cm ²) Antenna 1	MPE Ratio (mW/cm ²) Antenna 2	ΣMPE Ratios (mW/cm ²)	Limit (mW/cm ²)	Results
2.4G	IEEE 802.11b	0.0393	0.0393	/	1.000	Pass
	IEEE 802.11g	0.1563	0.1563	/	1.000	Pass
	IEEE 802.11n HT20	0.1563	0.1563	0.3126	1.000	Pass
	IEEE 802.11n HT40	0.1563	0.1563	0.3126	1.000	Pass
	IEEE 802.11ax HE20	0.1563	0.1563	0.3126	1.000	Pass
	IEEE 802.11ax HE40	0.1563	0.1563	0.3126	1.000	Pass

Band	Mode	MPE Ratio (mW/cm ²) Antenna 1	MPE Ratio (mW/cm ²) Antenna 2	ΣMPE Ratios (mW/cm ²)	Limit (mW/cm ²)	Results
5G	IEEE 802.11a	0.0531	0.0668	/	1.000	Pass
	IEEE 802.11n HT20	0.0668	0.0668	0.1336	1.000	Pass
	IEEE 802.11n HT40	0.0748	0.0594	0.1342	1.000	Pass
	IEEE 802.11ac VHT20	0.0531	0.0531	0.1062	1.000	Pass
	IEEE 802.11ac VHT40	0.0531	0.0422	0.0953	1.000	Pass
	IEEE 802.11ac VHT80	0.0748	0.0472	0.1220	1.000	Pass
	IEEE 802.11ax HE20	0.0335	0.0335	0.0670	1.000	Pass
	IEEE 802.11ax HE40	0.0594	0.0472	0.1066	1.000	Pass
	IEEE 802.11ax HE80	0.0531	0.0531	0.1062	1.000	Pass

Remark:

1. Maximum average power including tune-up tolerance;
2. MPE use distance is 20cm from manufacturer declaration of user manual.

We first evaluate WLAN simultaneous transmission and later evaluate WLAN simultaneous transmission;

Maximum Simultaneous transmission MPE Ratio for WLAN

Maximum MPE ratio (mW/cm ²) 2.4G	Maximum MPE ratio (mW/cm ²) 5G	Σ MPE ratios (mW/cm ²)	Limit (mW/cm ²)	Results
0.3126	0.1342	0.4468	1.000	Pass

Note: The estimation distance is 20cm

7. CONCLUSION

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----- End of Report -----