

**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road,
Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

RF Exposure evaluation**Report Reference No. : GTS20231208004-1-54****FCC ID. : 2BFAK-FD210U**

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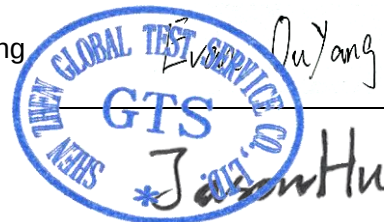
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Date of issue : Mar. 01, 2024

Representative Laboratory Name : Shenzhen Global Test Service Co.,Ltd.

..... :

Address

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and
Creative Garden, No.98, Pingxin North Road, Shangmugu
Community, Pinghu Street, Longgang District, Shenzhen,
Guangdong

Applicant's name..... : Shanghai Neardi Technology Co., LTD.

Address : Room A201-60, Building 16, No.99, Huanhu West 1st Road, Lingang
New Area, Shanghai, China

Test specification

Standard..... : 47CFR §1.1310 Basis and purpose
47CFR §2.1091 Radiofrequency radiation exposure evaluation:
mobile devices
TRF Originator : Shenzhen Global Test Service Co.,Ltd.
Master TRF : Dated 2014-12

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Test item description : FD7155U

Trade Mark : neardi

Manufacturer : Shanghai Neardi Technology Co., LTD.

Model/Type reference : FD210U

Listed Models : N/A

Hardware Version : V03

Software Version : N/A

Rating : DC 3.3V

Result : **PASS**

TEST REPORT

Test Report No. :	GTS20231208004-1-54	Mar. 01, 2024
		Date of issue

Equipment under Test : FD7155U

Model /Type : FD210U

Listed model : N/A

Applicant : **Shanghai Neardi Technology Co., LTD.**

Address : Room A201-60, Building 16, No.99, Huanhu West 1st Road, Lingang New Area, Shanghai, China

Manufacturer : **Shanghai Neardi Technology Co., LTD.**

Address : Room A201-60, Building 16, No.99, Huanhu West 1st Road, Lingang New Area, Shanghai, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY

1.1 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

●	N/A	M/N:	N/A
		Manufacturer:	N/A

1.2 Product Description

Product Name:	FD7155U
Trade Mark:	neardi
Model/Type reference:	FD210U
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 3.3V
Hardware Version	V03
Software Version	N/A
Sample ID	GTS20231208004-1-S0001-5#, GTS20231208004-1-S0001-6#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz IEEE 802.11ax HE20:2412-2462MHz IEEE 802.11ax HE40:2422-2452MHz
WLAN Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20) 7 Channel for IEEE 802.11n/ax (HT40)
Channel separation:	5MHz
Modulation Type	802.11b: DSSS; 802.11g/n/ax: OFDM/OFDMA
WIFI(5.2G/5.3G/5.7G/5.8G Band)	
WLAN Operation frequency	5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz
WLAN Modulation Type	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)

	IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755~5795MHz)
Antenna Description	External Antenna, 2.00 dBi(Max.) for 2.4G Band and 2.00 dBi(Max.) for 5G Band

2. TEST ENVIRONMENT

2.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

2.2 Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

2.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. METHOD OF MEASUREMENT

3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this 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.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

3.2 Requirement

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 KDB447498 D01 General RF Exposure Guidance v06 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.

3.3 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

*=Plane-wave equivalent power density

3.4 MPE Calculation Method

Predication of MPE limit at a given distance

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

$$S = \frac{PG}{4\pi R^2}$$

Where: S=power density

P=power input to antenna

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

R=distance to the center of radiation of the antenna

As declared by the Applicant, the EUT transmits with the maximum source-based Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna is 2.00dBi for BT&WLAN, and the power drift from Turn-up Procedure provided by manufacturer as following states, the RF power density can be obtained.

3.5 Antenna Information

FD210U can only use antennas certificated as follows provided by manufacturer;

Internal Identification	Antenna Identification in Internal photos	Antenna type and antenna number	Operate frequency band	Maximum antenna gain
Antenna 0	BT&WLAN	External Antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	2.00dBi(Max.) for 2.4G band 2.00dBi(Max.) for 5G band

4. Conducted Power Results

Bluetooth			
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	9.29
	39	2441	11.49
	78	2480	11.78
$\pi/4$ DQPSK	0	2402	7.91
	39	2441	11.53
	78	2480	11.78
8DPSK	0	2402	8.19
	39	2440	11.48
	78	2480	11.74
GFSK(BT LE)	0	2402	-4.00
	19	2440	-2.08
	39	2480	-2.07
GFSK(BT 2LE)	0	2402	6.41
	19	2440	8.02
	39	2480	6.65
GFSK(BT LE(S2))	0	2402	6.46
	19	2440	8.04
	39	2480	6.64
GFSK(BT LE(S8))	0	2402	6.49
	19	2440	8.05
	39	2480	6.68

2.4G WLAN			
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	16.18
	06	2437	16.00
	11	2462	16.16
802.11g	01	2412	16.46
	06	2437	16.92
	11	2462	17.60
802.11n(HT20)	01	2412	16.35
	06	2437	16.83
	11	2462	17.49
802.11n(HT40)	03	2422	16.25
	06	2437	16.90
	09	2452	16.70
802.11ax(HE20)	01	2412	16.86
	06	2437	17.41
	11	2462	17.98
802.11ax(HE40)	03	2422	16.84
	06	2437	17.37
	09	2452	17.15

5.2GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	15.11
	40	5200	14.58
	48	5240	14.95
802.11n20	36	5180	15.00
	40	5200	14.41
	48	5240	14.80
802.11n40	38	5190	14.20
	46	5230	14.00
802.11ac20	36	5180	14.95
	40	5200	14.43
	48	5240	14.86
802.11ac40	38	5190	14.31
	46	5230	13.69
802.11ax20	36	5180	15.10
	40	5200	14.32
	48	5240	14.69
802.11ax40	38	5190	14.26
	46	5230	14.14

5.3GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	52	5260	15.09
	56	5280	15.49
	64	5320	15.17
802.11n20	52	5260	15.36
	56	5280	14.13
	64	5320	13.90
802.11n40	54	5270	14.61
	58	5310	14.16
802.11ac20	52	5260	13.58
	56	5280	13.29
	64	5320	13.16
802.11ac40	54	5270	13.53
	58	5310	12.80
802.11ax20	52	5260	14.45
	56	5280	13.23
	64	5320	13.53
802.11ax40	54	5270	13.47
	58	5310	13.11

5.7GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	100	5500	13.90
	120	5600	13.38
	140	5700	14.16
802.11n20	100	5500	16.50
	120	5600	16.53
	140	5700	12.48
802.11n40	102	5510	9.73
	118	5590	8.80
	134	5670	9.57
802.11ac20	100	5500	11.89
	120	5600	12.37
	140	5700	12.24
802.11ac40	102	5510	12.22
	118	5590	11.86
	134	5670	13.07
802.11ax20	100	5500	11.93
	120	5600	11.96
	140	5700	12.21
802.11ax40	102	5510	12.37
	118	5590	11.91
	134	5670	13.04

5.8GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	11.02
	157	5785	12.41
	165	5825	12.44
802.11n20	149	5745	10.88
	157	5785	12.16
	165	5825	12.35
802.11n40	151	5755	11.20
	159	5795	12.14
802.11ac20	149	5745	11.13
	157	5785	12.56
	165	5825	12.44
802.11ac40	151	5755	11.26
	159	5795	12.12
802.11ax20	149	5745	10.76
	157	5785	12.06
	165	5825	12.24
802.11ax40	151	5755	11.25
	159	5795	12.22

5. Manufacturing Tolerance

Bluetooth			
GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	9.00	11.00	11.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	7.00	11.00	11.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	8.00	11.00	11.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
GFSK BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-4.00	-2.00	-2.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
GFSK BT 2LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	6.00	8.00	6.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
GFSK BT LE (S2) (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	6.00	8.00	6.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
GFSK BT LE (S8) (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	6.00	8.00	6.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

2.4GWLAN

IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	16.00	16.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	16.00	16.00	17.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	16.00	16.00	17.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	16.00	16.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	16.00	17.00	17.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	16.00	17.00	17.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	14.00	14.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	14.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	14.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	14.00	14.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/

5.3GWLAN

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	15.00	15.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	15.00	14.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	14.00	14.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	13.00	13.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	13.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	14.00	13.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	13.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/

5.7GWLAN

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	13.00	13.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	16.00	16.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.00	8.00	9.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	11.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	12.00	11.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	11.00	11.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	12.00	11.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

5.8GWLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/

6. Measurement Results

6.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

BT

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
GFSK	12.00	15.8489	2.00	1.5849	0.0050	1.0000
$\pi/4$ DQPSK	12.00	15.8489	2.00	1.5849	0.0050	1.0000
8DPSK	12.00	15.8489	2.00	1.5849	0.0050	1.0000
GFSK (BT LE)	-1.00	0.7943	2.00	1.5849	0.0003	1.0000
GFSK (BT 2LE)	9.00	7.9433	2.00	1.5849	0.0025	1.0000
GFSK (BT LE(S2))	9.00	7.9433	2.00	1.5849	0.0025	1.0000
GFSK (BT LE(S8))	9.00	7.9433	2.00	1.5849	0.0025	1.0000

2.4GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11b	17.00	50.1187	2.00	1.5849	0.0158	1.0000
802.11g	18.00	63.0957	2.00	1.5849	0.0199	1.0000
802.11n(HT20)	18.00	63.0957	2.00	1.5849	0.0199	1.0000
802.11n(HT40)	17.00	50.1187	2.00	1.5849	0.0158	1.0000
802.11ax(HE20)	18.00	63.0957	2.00	1.5849	0.0199	1.0000
802.11ax(HE40)	18.00	63.0957	2.00	1.5849	0.0199	1.0000

5.2GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11a	16.00	39.8107	2.00	1.5849	0.0126	1.0000
802.11n20	16.00	39.8107	2.00	1.5849	0.0126	1.0000
802.11n40	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11ac20	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11ac40	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11ax20	16.00	39.8107	2.00	1.5849	0.0126	1.0000
802.11ax40	15.00	31.6228	2.00	1.5849	0.0100	1.0000

5.3G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	16.00	39.8107	2.00	1.5849	0.0126	1.0000
802.11n20	16.00	39.8107	2.00	1.5849	0.0126	1.0000
802.11n40	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11ac20	14.00	25.1189	2.00	1.5849	0.0079	1.0000
802.11ac40	14.00	25.1189	2.00	1.5849	0.0079	1.0000
802.11ax20	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11ax40	14.00	25.1189	2.00	1.5849	0.0079	1.0000

5.7G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	15.00	31.6228	2.00	1.5849	0.0100	1.0000
802.11n20	17.00	50.1187	2.00	1.5849	0.0158	1.0000
802.11n40	10.00	10.0000	2.00	1.5849	0.0032	1.0000
802.11ac20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ac40	14.00	25.1189	2.00	1.5849	0.0079	1.0000
802.11ax20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ax40	14.00	25.1189	2.00	1.5849	0.0079	1.0000

5.8G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11n40	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ac20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ac40	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ax20	13.00	19.9526	2.00	1.5849	0.0063	1.0000
802.11ax40	13.00	19.9526	2.00	1.5849	0.0063	1.0000

Remark:

1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB447498 D01 General RF Exposure Guidance v06, No SAR is required.

.....End of Report.....