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FCC MPE TEST REPORT

FCC ID: 2A4FX-T20

Sample: Desktop multi-function wireless charging

stand(T20)

Trade Name: N/A

Main Model: T20

Additional Model: T30, T40, T50, T60

Report No.: 23061403ER-62

Prepared for

Shenzhen Leiden Digital Technology Co., Ltd

Room 602A, Building F, Second Industrial Zone, No.131 Bulan Road, Shanglilang Community, Nanwan, Longgang District, Shenzhen, Guangdong China

Prepared by

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TEST RESULT CERTIFICATION

	Reviewer		
Check By:	Detrium and level	Date:	2023-7-15
	Project Engineer		
Prepared By:	Trankly	Date:	2023-7-15
Test Result	: Pass		
Date of Issue	: Jul. 15,	2023	
Date (s) of performance of	tests: Jun. 14	, 2023 ~ Jun. 20, 2	023
Date of Test			
This device described about the test results show that the requirements. And it is appropriately app	ve has been tested by G the equipment under test plicable only to the tested produced except in full, v lobal United Technology	Blobal United Techr t (EUT) is in compli d sample identified without the written	nology Services Co. Ltd., and ance with the FCC
Test Methods	: FCC KDB 680106	D01 RF Exposure	Wireless Charging Apps v03
Model Name	: T20, T30, T40, T5	0, T60	
Trade Name	·	_	, ,
Product	: Desktop multi-fund	ction wireless chard	ing stand(T20)
Product description	Shenzhen, Guang	dong China	
Address	Road, Shanglilang	Community, Nanw	strial Zone, No.131 Bulan ran, Longgang District,
Manufacturer	: Shenzhen Leiden	Digital Technology	Co., Ltd
Address		Community, Nanw	strial Zone, No.131 Bulan van, Longgang District,
Applicant	: Shenzhen Leiden	Digital Technology	Co., Ltd

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Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Test List						
ANT	Frequency (KHz)	ANT	Frequency (KHz)	ANT	Frequency (KHz)	
01	121.8	02	133.6	03	127.4	

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1. SUMMARY OF TEST RESULTS

1.1 Test procedures according to the technical standards:
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47						
Standard Section	Standard Section Test Item					
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	N/A				
1.1310 KDB680106 D01 v03(3)(3)	Magnetic Field Strength (H) (A/m)	PASS				

Compliant with KDB680106 D01 RF Exposure Wireless Charging Apps v03 section 5, b:

- a) Power transfer frequency is less than 1MHz.

 Yes, the working frequency is 121.8KHz, 133.6KHz, 127.4KHz.
- b) Output power from each primary coil is less than or equal to 15 watts. Yes, the maximum output power is 15 watts.
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

Yes, three primary coils can work at the same time to charge three clients.

- d) Client device is placed directly in contact with the transmitter. Yes, client device is placed directly in contact with the transmitter.
- e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). Yes, EUT is for mobile exposure conditions only.
- f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. Yes, EUT h-field strengths levels are less than 50% of the MPE limit.

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1.2 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Desktop multi-function wireless charging stand(T20)	N/A	T20	EUT
E-2	Adapter	Xiaomi	MDY-11-EX	AE
E-3	Phone	HUAWEI	P40 Pro	AE
E-4	AirPods	APPLE	AirPods Pro	AE
E-5	Apple Watch	APPLE	Series 6	AE

Note:

- 1. The support equipment was authorized by Declaration of Confirmation.
- 2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Radiated Measurement (9KHz-30MHz)	±2.50dB
2	Temperature	±0.5°C
3	Humidity	±2%

1.4 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Until
Broadband Field Meter	NARDA	NBM-550		Jan. 01, 2024
Magnetic Field Meter	NARDA	ELT-400	1–400kHz	Jan. 01, 2024
Magnetic Probe	NARDA	HF-3061	300kHz-30MHz	Jan. 01, 2024
Magnetic Probe	NARDA	HF-0191	27–1000MHz	Jan. 01, 2024
Broadband Field Meter	NARDA	NBM-550	_	Jan. 01, 2024
Electric Field Meter	COMBINOVA	EFM 200	5Hz-400kHz	Jan. 01, 2024
E-Field Probe	NARDA	EF-0391	100kHz–3GHz	Jan. 01, 2024
E-Field Probe	NARDA	EF-6091	100MHz-60GHz	Jan. 01, 2024

NOTE: The calibration interval of the above test instruments is 12 months.

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2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

	Limits for Oc	cupational / Controlled	Limits for Occupational / Controlled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Power Density (S) Strength (H) (A/m) (mW/ cm²)		Averaging Time E ², H ² or S (minutes)						
0.3-3.0	614	1.63	(100)*	6						
3.0-30	1842 / f	4.89 / f	(900 / f)*	6						
30-300	61.4	0.163	1.0	6						
300-1500			F/300	6						
1500-100,000			5	6						
	Limits for Genera	al Population / Uncontro	olled Exposure							
Frequency Range (MHz)	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 / f)*	30						
30-300	27.5	0.073	0.2	30						
300-1500			F/1500	30						
1500-100,000			1	30						

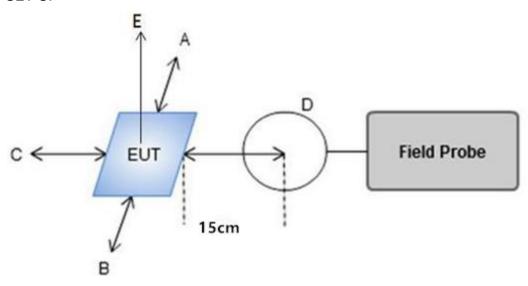
Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

- 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.
- 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2 TEST PROCEDURE

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be at 15 cm surrounding the device and 20 cm above the top surface. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair at 15 cm surrounding the device and 20 cm above the top surface.

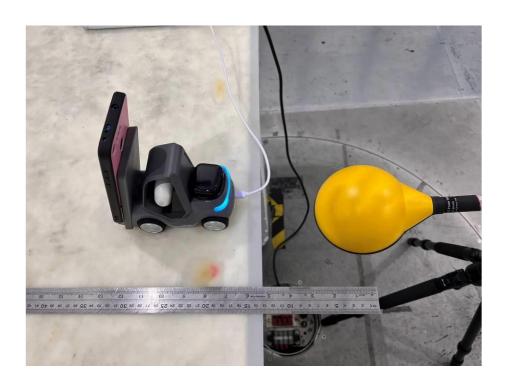
2.3 SET UP

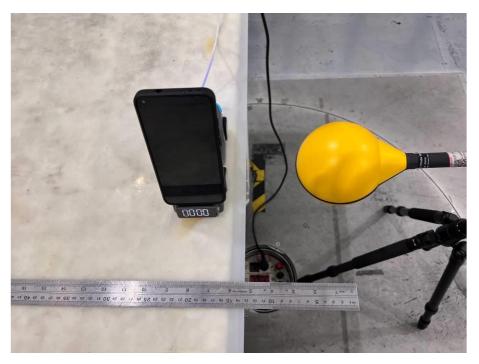


2.4 TEST PHOTO

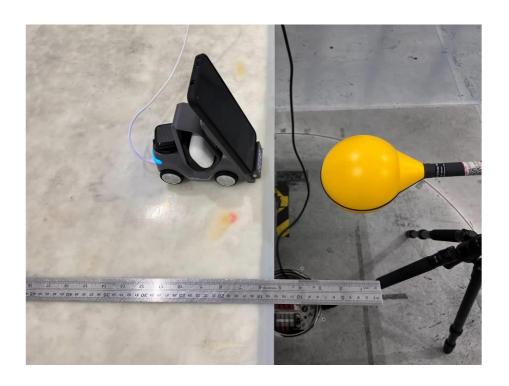














3. RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

For Full load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D		Reference Limit (A/m)	Limits Test (A/m)
uТ	0.13	0.14	0.12	0.15	0.13	/	/
A/m	0.10	0.11	0.10	0.12	0.10	0.815	1.63

Note: Calculation: A/m=uT/1.25

For Half load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D		Reference Limit (A/m)	Limits Test (A/m)
uT	0.15	0.18	0.16	0.17	0.18	/	/
A/m	0.12	0.14	0.13	0.14	0.14	0.815	1.63

Note: Calculation: A/m=uT/1.25

For No load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.17	0.19	0.18	0.21	0.19	/	/
A/m	0.14	0.15	0.14	0.17	0.15	0.815	1.63

Note: Calculation: A/m=uT/1.25
