



RF EXPOSURE TEST REPORT

Applicant	CE LINK LIMITED
Address	Building M, Li Cheng, Technology Industrial Zone, Gong He Village, Sha Jing Town, Shen Zhen, China

Manufacturer or Supplier	CE LINK LIMITED
Address	Building M, Li Cheng, Technology Industrial Zone, Gong He Village, Sha Jing Town, Shen Zhen, China
Product	Wireless Charging
Brand Name	NXT
Model	NX60454-CC
Additional Model & Model Difference	NX60454-US; See item 1.1
Date of tests	Oct. 23, 2021

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

☑ 47 CFR PART 1, Subpart I, Section 1.1310 ☑ KDB 680106 D01

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department				
Lucas	Data: Dec. 07, 2021				
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requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2109WDG0095	Original release	Dec. 07, 2021



1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	A4X-NX60454-US		
PRODUCT	Wireless Charging		
MODEL NO.	NX60454-CC		
ADDITIONAL MODEL	NX60454-US		
SAMPLE STATUS	Engineering sample		
POWER SUPPLY	Input: 5V/2A, 9V/2A, 12V/1.5A Output: 5W, 7.5W, 10W		
MODULATION TECHNOLOGY	FSK		
OPERATING FREQUENCY RANGE	111KHz ~ 205KHz		
ANTENNA TYPE	Coil Antenna		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	USB-A to USB-C Cable:1.8m, Shielded, Detachable		

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2109WDG0095-1) for detailed product photo.
- 4. The EUT was powered by the following adapter:

ADAPTER	
BRAND:	N/A
MODEL:	W0920U-1U05F
INPUT:	100-240VAC 50/60Hz 0.45A
OUTPUT:	3.6V~6.0V/3A, 6V~9V/2A, 9V~12V/1.5A



2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PER	MISSIBLE EXPOSURE (MPE)
--------------------------------	-------------------------

Electric field Magnetic field strength (V/m) (A/m)		Power density (mW/cm²)	y Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures							
614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6 6				
61.4	0.163	1.0 f/300	6				
	strength (V/m) its for Occupational 614 1842/f 61.4	strength (V/m) strength (A/m) its for Occupational/Controlled Exposure 614 1.63 1842/f 4.89/f 61.4 0.163	strength (V/m) štrength (A/m) Power density (mW/cm²) its for Occupational/Controlled Exposures 614 1.63 *(100) 1842/f 4.89/f *(900/f2) 61.4 1.63 *(100) 61.4 0.163 1.0 1.00 1.00 1.00 1.00				

(B) Limits for General Population/Uncontrolled Exposure

	•			
0.3–1.34	614	1.63	*(100)	30
1.34–30	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

t = trequency in MHZ
* = Plane-wave equivalent power density NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occu-pational/controlled limits apply provided he or she is made aware of the potential for exposure. NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be ex-posed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

exposure or can not exercise control over their exposure.

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

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.

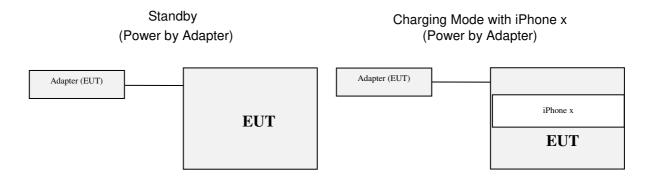
2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

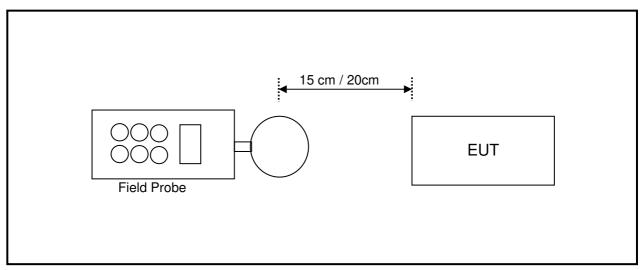
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone X	Apple	MQA52CH/A	N/A	N/A



2.3 CONFIGURATION OF SYSTEM UNDER TEST



2.4 TEST SETUP FOR WPT



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



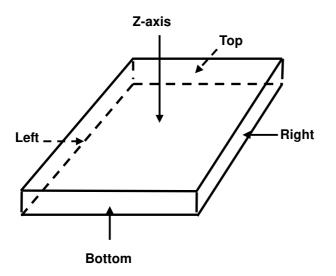
BUREAU
VERITASTest Report No.: FM2109WDG00952.5EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Frequency Range	Next Cal.
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	7m*4m*3m	NSEMC003	2022-03-19
2	Narda Broadband Field Meter	Narda	NBM-520	100KHz-90GHz	2021-12-23
3	E-Field probe	Narda	EF0691	100KHz-6GHz	2021-12-23
4	Exposure Level Tester	Narda	ELT-400	1Hz-400KHz	2021-12-23

NOTES: 1. The test was performed in RS chamber.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2.6 TEST POINT DESCRIPTION





2.7 TEST RESULTS

Mode 1 Standby

E-Field Measurement						
Distance		15cm				
EUT Side	Left	Left Right Top Bottom				
Max E-field (V/m)	0.68	0.68 0.75 0.59 0.49				
Limit (V/m)	614	614	614	614	614	
Margin (V/m)	-613.32	-613.25	-613.41	-613.51	-613.47	
50% Limit (V/m)	307	307	307	307	307	
50% Margin (V/m)	-306.32	-306.25	-306.41	-306.51	-306.47	

H-Field Measurement						
Distance		15cm				
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.221	0.223	0.228	0.236	0.276	
Max H-field (A/m)	0.176	0.178	0.182	0.188	0.220	
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.454	-1.452	-1.448	-1.442	-1.410	
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	
50% Margin (A/m)	-0.639	-0.637	-0.633	-0.627	-0.595	

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Mode 2: Operating with iPhone x 10% Charger

E-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	0.65	0.65 1.09 0.79 0.89					
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-613.35	-612.91	-613.21	-613.11	-613.44		
50% Limit (V/m)	307						
50% Margin (V/m)	-306.35	-305.91	-306.21	-306.11	-306.44		

H-Field Measurement						
Distance		15cm				
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.231	0.23	0.228	0.228	0.231	
Max H-field (A/m)	0.184	0.184 0.183 0.182 0.182				
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.446	-1.447	-1.448	-1.448	-1.446	
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	
50% Margin (A/m)	-0.631	-0.632	-0.633	-0.633	-0.631	

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



E-Field Measurement						
Distance		15cm				
EUT Side	Left	Z-axis				
Max E-field (V/m)	0.69	0.89	0.96	0.72	0.54	
Limit (V/m)	614	614	614	614	614	
Margin (V/m)	-613.31	-613.11	-613.04	-613.28	-613.46	
50% Limit (V/m)	307	307	307	307	307	
50% Margin (V/m)	-306.31	-306.11	-306.04	-306.28	-306.46	

Mode 3: Operating with iPhone x 50% Charger

H-Field Measurement							
Distance		15cm					
EUT Side	Left	Left Right Top Bottom					
Max H-field (uT)	0.229	0.229	0.231	0.232	0.229		
Max H-field (A/m)	0.182	0.182 0.182 0.184 0.185					
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.448	-1.448	-1.446	-1.445	-1.448		
50% Limit (A/m)	0.815	0.815 0.815 0.815 0.815					
50% Margin (A/m)	-0.633	-0.633	-0.631	-0.630	-0.633		

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Mode 4: Operating with iPhone x 90% Charger

E-Field Measurement						
Distance		15cm				
EUT Side	Left	Z-axis				
Max E-field (V/m)	0.66	0.92	0.93	1.02	0.56	
Limit (V/m)	614	614	614	614	614	
Margin (V/m)	-613.34	-613.08	-613.07	-612.98	-613.44	
50% Limit (V/m)	307	307	307	307	307	
50% Margin (V/m)	-306.34	-306.08	-306.07	-305.98	-306.44	

H-Field Measurement						
Distance		15cm				
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.229	0.229	0.231	0.229	0.234	
Max H-field (A/m)	0.182	0.182	0.184	0.182	0.186	
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.448	-1.448	-1.446	-1.448	-1.444	
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	
50% Margin (A/m)	-0.633	-0.633	-0.631	-0.633	-0.629	

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (FCC MPE Test Photo).

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