



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 Charger

Brand Name	NXT
Model	NX60455-CC
Additional Model & Model Difference	NX60455-US; See item 3.1
Date of tests	Sep. 23, 2021 ~ Jan. 05, 2022

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

FCC Part 15, Subpart C

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	Date: Jan. 12, 2022				
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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
RF2109WDG0197	Original release	Jan. 12, 2022



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C					
STANDARD SECTION	TEST TYPE AND LIMIT	TEST TYPE AND LIMIT RESULT			
§15.203	Antenna Requirement	PASS	No antenna connector is used.		
§15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.		
§15.209	Radiated Emission	PASS	Meet the requirement of limit.		
§15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.		

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	3.05dB
Padiated emissions	9KHz ~ 30MHz	2.16dB
Radialed emissions	30MHz ~ 1GMHz	3.63dB

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Charging		
MODEL NO.	NX60455-CC		
ADDITIONAL MODEL	NX60455-US		
SAMPLE STATUS	Engineering sample		
FCC ID	A4X-NX60455-US		
	Input: DC 5V/2A, DC 9V/2A, DC 12V/1.5A		
POWER SUPPLY	Output: 5W, 7.5W, 10W		
MODULATION TYPE	FSK		
OPERATING FREQUENCY	111KHz ~ 205KHz		
ANTENNA TYPE	Coil Antenna		
FIELD STRENGTH	89.07dBuV/m (Measured Maximum)		
CABLE SUPPLIED	USB-A to USB-C Cable: Shielded, Detachable, 1.8m		

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.: 2109WDG0197-1) for detailed product photo.
- 4. Additional model NX60455-US is identical with the test model NX60455-CC except the appearance and model no. for trading purpose.
- 5. The EUT was powered by the following adapter:

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



3.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes.

TEST FREQUENCY	TEST MODE	TEST VOLTAGE
127.70KHz	Standby	DC 5V from Adapter Input AC
127.70KHz	Wireless Charging	120V/60Hz

3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, power supply voltage range and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT	ļ	APPLICABLE TO			
CONFIGURE MODE	RE<1G	PLC	20BW	DESCRIPTION	
А	\checkmark	\checkmark	\checkmark	Standby	
В	\checkmark		V	Wireless Charging	

Where RE<1G: Radiated Emission below 1GHz 20BW: 20dB Bandwidth PLC: Power Line Conducted Emission

RADIATED EMISSION TEST (BELOW 1GHZ):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
Following channel(s) was (were) selected for the final test as listed below.

	On a westing	 (1/1-)	Tested Freesware ev////	

EUT configure mode Operating Frequency Range(KHz)		Tested Frequency(KHz)	Modulation Type
А	111-205	127.7	FSK
В	111-205	127.7	FSK

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Operating Frequency Range(KHz)	Tested Frequency(KHz)	Modulation Type
А	111-205	127.7	FSK
В	111-205	127.7	FSK

20DB BANDWIDTH TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Operating Frequency Range(KHz)	Tested Frequency(KHz)	Modulation Type	
А	111-205	127.7	FSK	
В	111-205	127.7	FSK	



TEST CONDITION:

Applicable to	Environmental conditions	Input Power(Adapter)	Tested by	
RE<1G	21deg. C, 53% RH/ 25deg. C, 58% RH	AC 120V/60Hz	Ray/Byant	
PLC	25deg. C, 58% RH	AC 120V/60Hz	Summer	
20BW	25deg. C, 54% RH	AC 120V/60Hz	Jeffrey	

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent 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.

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

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A



3.5 CONFIGURATION OF SYSTEM UNDER TEST



3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

	Class A	(dBuV)	Class B (dBuV)		
	Quasi-peak Average		Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

NOTES: (1) The lower limit shall apply at the transition frequencies.

- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Mar. 07,22
Artificial Mains	Rohde&Schwarz	ENV216	101173	Mar. 07,22
INELWOIK				
Network	Rohde&Schwarz	ESH3-Z5	100317	Mar. 07,22
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Aug. 05,22
Coaxial RF Cable	/	CE CABLE	C2310066DG	Jul. 27,22
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

- **NOTES:** 1. 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. The test was performed in shielding room 553.



4.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 amended as per ANSI C63.4a:2017.

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20dB) were not recorded.

NOTES:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.



4.1.7 TEST RESULTS

TEST MODE	Wireless Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	g Value	Emis Le ^v	sion vel	Lir	nit	Mar	gin
No.		Factor	[dB	(uV)]	[dB ((uV)]	[dB ((uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.25	41.03	18.36	51.28	28.61	66.00	56.00	-14.72	-27.39
2	0.19931	10.29	45.46	25.77	55.75	36.06	63.64	53.64	-7.89	-17.58
3	0.29772	10.26	33.28	12.40	43.54	22.66	60.31	50.31	-16.77	-27.65
4	0.63857	10.24	35.83	31.16	46.07	41.40	56.00	46.00	-9.93	-4.60
5	3.83100	10.48	32.78	28.19	43.26	38.67	56.00	46.00	-12.74	-7.33
6	4.85250	10.52	33.28	28.70	43.80	39.22	56.00	46.00	-12.20	-6.78

REMARK: The emission levels of other frequencies were very low against the limit.





TEST MODE	Wireless Charging	6DB BANDWIDTH	9 kHz
TEST VOLTAGE AC 120V 60Hz		PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	g Value	Emis Le	sion vel	Lir	nit	Mar	gin
No.		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.06	38.02	11.43	48.08	21.49	66.00	56.00	-17.92	-34.51
2	0.19514	10.16	42.41	20.39	52.57	30.55	63.81	53.81	-11.25	-23.27
3	0.29304	10.16	31.99	9.28	42.15	19.44	60.44	50.44	-18.29	-31.00
4	0.63825	10.12	31.77	27.51	41.89	37.63	56.00	46.00	-14.11	-8.37
5	4.08750	10.30	28.79	24.62	39.09	34.92	56.00	46.00	-16.91	-11.08
6	4.85250	10.32	29.53	25.38	39.85	35.70	56.00	46.00	-16.15	-10.30

REMARK: The emission levels of other frequencies were very low against the limit.





TEST MODE	Standby	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Readin	y Value Emis		Emission Limit M		Limit		gin
No.		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.38260	10.25	19.76	-6.72	30.01	3.53	58.22	48.22	-28.21	-44.69
2	0.63825	10.24	26.35	-3.10	36.59	7.14	56.00	46.00	-19.41	-38.86
3	1.91525	10.40	25.77	-6.61	36.17	3.79	56.00	46.00	-19.83	-42.21
4	3.70275	10.48	33.40	23.30	43.88	33.78	56.00	46.00	-12.12	-12.22
5	4.21350	10.50	43.70	28.70	54.20	39.20	56.00	46.00	-1.80	-6.80
6	4.47002	10.51	42.12	30.90	52.63	41.41	56.00	46.00	-3.37	-4.59

REMARK: The emission levels of other frequencies were very low against the limit.





TEST MODE	Standby	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY	Summer

	Freq.	Corr.	Reading	Reading Value		Emission Level		nit	Mar	gin
No.		Factor	[dB (uV)]		[dB ((uV)]	[dB ((uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.38260	10.17	21.99	10.86	32.16	21.03	58.22	48.22	-26.06	-27.19
2	0.63857	10.12	21.93	-7.09	32.05	3.03	56.00	46.00	-23.95	-42.97
3	1.14900	10.26	15.09	-7.23	25.35	3.03	56.00	46.00	-30.65	-42.97
4	3.70275	10.30	29.10	1.90	39.40	12.20	56.00	46.00	-16.60	-33.80
5	4.21350	10.31	38.90	0.60	49.21	10.91	56.00	46.00	-6.79	-35.09
6	4.47002	10.31	38.00	3.00	48.31	13.31	56.00	46.00	-7.69	-32.69

REMARK: The emission levels of other frequencies were very low against the limit.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart C, Section 15.209

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 - 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

NOTES:

1. The lower limit shall apply at the transition frequencies.

2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)



4.2.2 TEST INSTRUMENTS

FREQUENCY 9KHz-30MHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 07,22
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 29,22
Amplifier	Burgeon	BPA-530	100210	Mar. 13,22
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A

NOTES: 1. The test was performed in 10m 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.

3. The FCC Site Registration No. is 749762.

FREQUENCY 30MHz-1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 07,22
Bilog Antenna	Teseq	CBL 6111D	30643	May 29,22
Amplifier	Burgeon	BPA-530	100220	Mar. 13,22
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 22,22
Test software	ADT	ADT_Radiated_V7.6.15. 9.2	N/A	N/A

NOTES: 1. The test was performed in 966 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.

3. The FCC Site Registration No. is 749762.



4.2.3 TEST PROCEDURE

< Below 30MHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

<30MHz~1GHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTES:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 200Hz for Quasi-peak detection (QP) at fundamental frequency 9K-150KHz;
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 9KHz for Quasi-peak detection (QP) at fundamental frequency 150K-30MHz;
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at radiated spurious emission frequency 30MHz-1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

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4.2.5 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

- a. Turn on the power supply of the EUT.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

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4.2.7 TEST RESULTS

TEST MODE	Standby	FREQUENCY RANGE	9KHz-0.15MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 200Hz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 10M											
No	Erog	Correction	Raw	Emission	Limit	Margin	Antenna	Table				
110	(MU-)	Factor	Value	Level	(dBu)//m)	(dB)	Height	Angle				
·	(10172)	(dB/m)	(dBuV)	(dBuV/m)	(ubu v/m)	(UD)	(cm)	(Degree)				
1	0.01870 AV	-10.29	51.33	41.04	122.17	-81.13	100	45				
2	0.03510 AV	-10.83	55.62	44.79	116.70	-71.91	100	74				
3	0.05420 AV	-10.87	43.74	32.87	112.92	-80.05	100	74				
4	0.07460 AV	-10.85	41.43	30.58	110.15	-79.57	100	75				
5	0.09660 QP	-10.81	47.89	37.08	107.90	-70.82	100	62				
6	0.10630 QP	-10.82	53.59	42.77	107.07	-64.30	100	3				
7	0.12770 AV	-10.85	99.59	88.74	105.48	-16.74	100	2				

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.009-0.15MHz.





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TEST MODE	Standby	FREQUENCY RANGE	9KHz-0.15MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 200Hz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PERPENDICYLARL AT 10M											
No	Eroq	Correction	Raw	Emission	Limit	Margin	Antenna	Table				
INO	(MU-)	Factor	Value	Level	(dPuV/m)	(dD)	Height	Angle				
•		(dB/m)	(dBuV)	(dBuV/m)	(ubuv/iii)	(UD)	(cm)	(Degree)				
1	0.01000 AV	-9.88	55.23	45.35	127.60	-82.25	100	45				
2	0.03510 AV	-10.83	55.22	44.39	116.70	-72.31	100	144				
3	0.04370 AV	-10.85	44.75	33.90	114.79	-80.89	100	33				
4	0.06420 AV	-10.88	43.79	32.91	111.45	-78.54	100	22				
5	0.09660 QP	-10.81	49.20	38.39	107.90	-69.51	100	7				
6	0.10630 QP	-10.82	54.18	43.36	107.07	-63.71	100	5				
7	0.12770 AV	-10.85	99.92	89.07	105.48	-16.41	100	3				

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.15-0.15MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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TEST MODE	Standby	FREQUENCY RANGE	150KHz-30MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 9KHz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 10M							
No	Frog	Correction	Raw	Emission	Limit	Margin	Antenna	Table
INO	/MU->)	Factor	Value	Level	(dRu)//m)	(dP)	Height	Angle
•		(dB/m)	(dBuV)	(dBuV/m)	(ubu v/m)	(ub)	(cm)	(Degree)
1	0.38280 AV	-10.98	74.66	63.68	95.94	-32.26	100	190
2	1.65900 QP	-11.18	50.12	38.94	64.19	-25.25	100	190
3	4.98000 QP	-11.32	50.77	39.45	69.54	-30.09	100	169
4	9.29650 QP	-11.20	29.58	18.38	69.54	-51.16	100	111
5	12.48460 QP	-11.10	29.63	18.53	69.54	-51.01	100	23
6	15.78170 QP	-11.09	29.34	18.25	69.54	-51.29	100	318

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.15-30MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



TEST MODE	Standby	FREQUENCY RANGE	150KHz-30MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 9KHz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PERPENDICYLARL AT 10M								
No	Frog	Correction	Raw	Emission	Limit	Margin	Antenna	Table	
INO		Factor	Value	Level	(dRu)//m)	(dP)	Height	Angle	
·	(10112)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(ubuv/iii)	(ub)	(cm)	(Degree)
1	0.38280 AV	-10.98	74.76	63.78	95.94	-32.16	100	176	
2	0.89330 QP	-11.09	59.90	48.81	69.07	-20.26	100	176	
3	2.68140 QP	-11.22	43.55	32.33	69.54	-37.21	100	176	
4	4.98000 QP	-11.32	50.68	39.36	69.54	-30.18	100	165	
5	6.00240 QP	-11.31	31.42	20.11	69.54	-49.43	100	360	
6	8.42480 QP	-11.20	29.66	18.46	69.54	-51.08	100	211	

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.15-30MHz
- 4. Only emissions significantly above equipment noise floor are reported.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



TEST MODE	Wireless Charging	FREQUENCY RANGE	9KHz-0.15MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 200Hz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 10M								
No	Frog	Correction	Raw	Emission	Limit	Margin	Antenna	Table	
NO		Factor	Value	Level	(dBu)//m)	(dD)	Height	Angle	
•		(dB/m)	(dBuV)	(dBuV/m)	(abuv/m)	(ubu v/m)	(UD)	(cm)	(Degree)
1	0.01020 AV	-9.89	66.45	56.56	127.40	-70.84	100	75	
2	0.02050 AV	-10.37	60.70	50.33	121.38	-71.05	100	41	
3	0.03510 AV	-10.83	55.22	44.39	116.68	-72.29	100	242	
4	0.06350 AV	-10.88	46.87	35.99	111.54	-75.55	100	15	
5	0.10090 QP	-10.81	52.59	41.78	107.52	-65.74	100	25	
6	0.10630 QP	-10.82	54.53	43.71	107.07	-63.36	100	24	
7	0.12770 AV	-10.85	99.92	89.07	105.48	-16.41	100	325	

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.009-0.15MHz
- 4. Only emissions significantly above equipment noise floor are reported.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



TEST MODE	Wireless Charging	FREQUENCY RANGE	9KHz-0.15MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 200Hz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PERPENDICYLARL AT 10M							
No	Frog	Correction	Raw	Emission	Limit	Margin	Antenna	Table
INO	/M⊔→)	Factor Value Level	Level	(dBuV/m)	(dBuV/m)	(dD)	Height	Angle
•	(IVITZ)	(dB/m)	(dBuV)	(dBuV/m)		(ub)	(cm)	(Degree)
1	0.01300 AV	-10.02	53.67	43.65	125.33	-81.68	100	22
2	0.03510 AV	-10.83	56.12	45.29	116.70	-71.41	100	54
3	0.05520 AV	-10.88	46.09	35.21	112.76	-77.55	100	144
4	0.06520 AV	-10.88	45.77	34.89	111.31	-76.42	100	25
5	0.08320 AV	-10.83	42.65	31.82	109.20	-77.38	100	74
6	0.10090 QP	-10.81	51.75	40.94	107.52	-66.58	100	4
7	0.12770 AV	-10.85	77.70	66.85	105.48	-38.63	100	7

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.009-0.15MHz
- 4. Only emissions significantly above equipment noise floor are reported.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



TEST MODE	Wireless Charging	FREQUENCY RANGE	150KHz-30MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 9KHz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PARALLEL AT 10M							
No	Frog	Correction	Raw	Emission	Limit	Margin	Antenna	Table
NO		Factor	Value	Level	(dBu)//m)	(dP)	Height	Angle
•	(10112)	(dB/m)	(dBuV)	(dBuV/m)	(aBuv/m)	(ub)	(cm)	(Degree)
1	0.38280 AV	-10.98	58.06	47.08	95.94	-48.86	100	41
2	1.14850 QP	-11.16	40.08	28.92	67.08	-38.16	100	44
3	2.42620 QP	-11.21	31.82	20.61	69.54	-48.93	100	52
4	3.19190 QP	-11.23	30.20	18.97	69.54	-50.57	100	56
5	5.23520 QP	-11.32	30.63	19.31	69.54	-50.23	100	253
6	23.15800 QP	-11.00	28.55	17.55	69.54	-51.99	100	58

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.15-30MHz
- 4. Only emissions significantly above equipment noise floor are reported.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



TEST MODE	Wireless Charging	FREQUENCY RANGE	150KHz-30MHz
TEST VOLTAGE	AC 120V 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	QP&AV, 9KHz
ENVIRONMENTAL CONDITIONS	21deg. C, 53% RH	TESTED BY: Ray	

	ANTENNA POLARITY & TEST DISTANCE: PERPENDICYLARL AT 10M							
No	Frog	Correction	Raw	Emission	Limit	Margin	Antenna	Table
INO	(MU-)	Factor	Value	Level	(dBu)//m)	(dB)	Height	Angle
•	(10112)	(dB/m)	(dBuV)	(dBuV/m)	(dBuv/m)	(UD)	(cm)	(Degree)
1	0.38280 AV	-10.98	58.19	47.21	95.94	-48.73	100	40
2	1.65900 QP	-11.18	33.82	22.64	64.19	-41.55	100	139
3	5.23520 QP	-11.32	30.91	19.59	69.54	-49.95	100	74
4	7.54270 QP	-11.23	29.80	18.57	69.54	-50.97	100	342
5	11.87720 QP	-11.11	29.63	18.52	69.54	-51.02	100	196
6	13.52350 QP	-11.09	29.89	18.80	69.54	-50.74	100	137

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 0.15-30MHz
- 4. Only emissions significantly above equipment noise floor are reported.



Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



TEST MODE	Standby	FREQUENCY RANGE	30MHz -1GHz
TEST VOLTAGE	AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120KHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY: BRYAN	IT

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M									
	Free	Correction	Raw	Emission	Limit	Margin	Antenna	Table		
No.	(MHz)	Factor	Value	Level	(dBuV/m)	(dB)	Height	Angle		
(171	(101112)	(dB/m)	(dBuV)	(dBuV/m)	(ubuv/iii)	(UD)	(cm)	(Degree)		
1	30.00	-12.86	41.09	28.23	40.00	-11.77	100	82		
2	162.13	-18.76	45.86	27.10	43.50	-16.40	100	163		
3	216.54	-20.04	45.57	25.53	46.00	-20.47	100	205		
4	305.14	-15.98	46.54	30.56	46.00	-15.44	100	37		
5	336.23	-15.19	47.84	32.65	46.00	-13.35	100	84		
6	364.21	-13.89	43.55	29.66	46.00	-16.34	100	293		

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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TEST MODE	Standby	FREQUENCY RANGE	30MHz -1GHz
TEST VOLTAGE	AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120KHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY: BRYAN	IT

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M									
	Erog	Correction	Raw	Emission	Limit N	Margin	Antenna	Table		
No.	(MHz)	Factor	Value	Level	(dBuV/m)	(dB)	Height	Angle		
	(11112)	(dB/m)	(dBuV)	(dBuV/m)	(ubuv/iii)	(ub)	(cm)	(Degree)		
1	33.11	-13.9	45.15	31.25	40.00	-8.75	100	89		
2	78.19	-23.02	48.71	25.69	40.00	-14.31	100	69		
3	90.62	-22.18	52.39	30.21	43.50	-13.29	100	133		
4	106.17	-20.17	47.76	27.59	43.50	-15.91	100	243		
5	157.47	-18.53	46.44	27.91	43.50	-15.59	100	271		
6	288.04	-16.22	43.04	26.82	46.00	-19.18	100	95		

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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TEST MODE	Wireless Charging	FREQUENCY RANGE	30MHz -1GHz
TEST VOLTAGE	AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120KHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY: BRYAN	IT

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M									
	Frag	Correction	Raw	Emission	Limit	Margin	Antenna	Table		
No.		Factor	Value	Level	(dBu)//m)	(dB)	Height	Angle		
(171	(11112)	(dB/m)	(dBuV)	(dBuV/m)	(ubuv/iii)	(UD)	(cm)	(Degree)		
1	134.15	-18.57	50.13	31.56	43.50	-11.94	100	79		
2	218.09	-19.96	49.39	29.43	46.00	-16.57	100	305		
3	286.49	-16.29	48.10	31.81	46.00	-14.19	100	233		
4	303.59	-16.01	48.96	32.95	46.00	-13.05	100	274		
5	336.23	-15.19	51.48	36.29	46.00	-9.71	100	103		
6	358.00	-14.09	47.83	33.74	46.00	-12.26	100	41		

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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TEST MODE	Wireless Charging	FREQUENCY RANGE	30MHz -1GHz
TEST VOLTAGE	AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120KHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY: BRYAN	IT

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M									
	Erog	Correction	Raw	Emission	Limit	Margin	Antenna	Table		
No.		Factor	Value	Level	(dPu)//m)	(dP)	Height	Angle		
		(dB/m)	(dBuV)	(dBuV/m)	(авиу/ш)	(uD)	(cm)	(Degree)		
1	30.00	-12.86	47.32	34.46	40.00	-5.54	100	49		
2	40.88	-16.68	47.28	30.60	40.00	-9.40	100	277		
3	87.52	-22.42	52.97	30.55	40.00	-9.45	100	304		
4	132.60	-18.75	57.39	38.64	43.50	-4.86	100	21		
5	218.09	-19.96	46.54	26.58	46.00	-19.42	100	40		
6	336.23	-15.19	44.40	29.21	46.00	-16.79	100	183		

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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4.3. 20dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 17,22
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 29,22
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A

NOTES:

1. The test was performed in RF Oven room.

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.

4.3.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT, then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.



4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITION

- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.



4.3.7 TEST RESULTS

TEST MODE	CHANNEL FREQUENCY (KHz)	20dB BANDWIDTH (Hz)	
Standby	127.70	742.4	

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F	
Lower	127.3266	PASS	
Upper	128.0690	PASS	

Test Data:





TEST MODE	CHANNEL FREQUENCY (KHz)	20dB BANDWIDTH (kHz)	
Wireless charging	127.70	742.4000	

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F	
Lower	127.3266	PASS	
Upper	128.0690	PASS	

Test Data:

Spectrum 🕎										
Ref Level 105.00 dBµV										
Att	15 d	dB SWT 6.3 ms (VBW 1 kH:	: M	ode Aut	o FFT				
Sa View										
100 dBuV					M	1[1]			8	38.81 dBµV
100 UBHA									127.	70000 kHz
				M1	n	IB				20.00 dB
90 00pv				\uparrow	BI	N			742.400	000000 Hz
80 dBuV					<u></u> Q	factor				172.0
00 000			X		X					
70 dBuV			<u>T1/</u>			<u></u> γ2				
						\sim				
60 dBuV				-						
						$ \rangle$				
50 dBµV				_			\setminus			
							$\langle \cdot \rangle$			
40 dBµV				_			+			
							1			
30 dBµV							+			
	~						- \			
20 dBµV				_				<u> </u>		
10 dBµV——				-						
CE 127.7 kH	7		69	1 nts					Sna	n 3.0 kHz
Markor										
Tyne Ref	f Trc X-value F					Function Euroction Result				
M1	1	127.7 kHz	88.81 0	BuV	IV ndB down		, and	742.4 Hz		
T1	1	127.3266 kHz	68.84 c	Βμν		ndB				20.00 dB
T2	1	128.069 kHz	69.07 c	BμV	Q	factor				172.0



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

----END----