

Report No.: SZCR210502111401 Page: 1 of 32

## TEST REPORT

Test Result:	Pass*		
Date of Issue:	2021-06-22		
Date of Test:	2021-05-29 to 2021-06-15		
<b>Date of Receipt:</b> 2021-05-20			
Standard(s) :	47 CFR Part 15, Subpart C		
Trade Mark:	DNS, omars, mbest, NOVOO, KEYMOX		
FCC ID:	ZBCWD255B		
Model No.:	WD-255B		
EUT Name:	WIRELESS CHARGER, 2 in 1 Wireless Charging Station		
Equipment Under Test (EUT)	:		
Address of Manufacturer:	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China		
Manufacturer:	SHENZHEN DNS INDUSTRIES CO., LTD.		
Address of Applicant:	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China		
Applicant:	SHENZHEN DNS INDUSTRIES CO., LTD.		
Application No.:	SZCR2105021114AT		

\* In the configuration tested, the EUT complied with the standards specified above.

Keny. Ku

Keny Xu EMC Laboratory Manager



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Revision Record						
Version	Version Chapter Date Modifier					
01		2021-06-22		Original		

Authorized for issue by:		
	(eo-li	
	Leo Li/Project Engineer	
	Erric Fu	
	Eric Fu/Reviewer	



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#### **Test Summary** 2

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass	
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass	

N/A: No applicable



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Input: 12V/1.5A	
	Output 1: 5W/7.5W/10W	
	Output 2: 2.5W	
	Total: 12.5W	
Operation frequency:	For Output 1: 112.4kHz to 148.4kHz	
Operation frequency.	For Output 2: 325.2kHz to 327.6kHz	
Modulation type:	Load modulation	
Antenna type:	Loop Antenna	

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-08	REF. No.SEA05M02F
iWatch	Apple	Apple Watch 3	N/A
Type-C Cable	SGS	N/A	REF. No.SEA07B00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	± 4.5dB
Radiated Emissions (9kHz-30MHz)	± 4.5dB
20dB Bandwidth	± 3%
Restricted Bands	± 3%

Remark:

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{cispr}$  (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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#### 4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

#### 4.5 Test Facility

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

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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#### **Equipment List** 5

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09	

Radiated Emissions (9kHz-30MHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26		
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07		
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09		



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20dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22		

Restricted Bands							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22		

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29	



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2

Limit:

	Conducted limit(dBµV)				
Frequency of emission(MHZ)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 59.3 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Final test	03	Charge mode_Keep the EUT charging(Output 2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT chargingOutput1: 5W+Output 2: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT chargingOutput1: 7.5W+Output 2: 2.5W)
Final test	06	Charge mode_Keep the EUT chargingOutput1: 10W+Output 2: 2.5W)



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7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 $\mu$ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 03; Line: Live line

Site :	Shielding	Room
Condition:	Line	
Job No. :	21114AT	
Test mode:	03	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1740	0.03	9.71	6.70	16.44	54.77	-38.33	Average
2	0.1740	0.03	9.71	18.45	28.19	64.77	-36.58	QP
3	0.2481	0.05	9.74	5.07	14.86	51.82	-36.96	Average
4	0.2481	0.05	9.74	14.46	24.25	61.82	-37.57	QP
5	0.4083	0.06	9.76	14.19	24.01	47.68	-23.67	Average
6	0.4083	0.06	9.76	18.76	28.58	57.68	-29.10	QP
7	1.6064	0.12	9.80	19.80	29.72	46.00	-16.28	Average
8	1.6064	0.12	9.80	20.24	30.16	56.00	-25.84	QP
9	4.8211	0.16	9.92	19.95	30.03	46.00	-15.97	Average
10	4.8211	0.16	9.92	20.04	30.12	56.00	-25.88	QP
11	10.0797	0.16	10.20	19.41	29.77	50.00	-20.23	Average
12	10.0797	0.16	10.20	21.56	31.92	60.00	-28.08	QP



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Test Mode: 03; Line: Neutral Line

Site :	Shielding	Room
Condition:	Neutral	
Job No. :	21114AT	
Test mode:	03	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.03	9.71	10.41	20.15	55.78	-35.63	Average
2	0.1540	0.03	9.71	22.89	32.63	65.78	-33.15	QP
3	0.2174	0.04	9.72	8.73	18.49	52.92	-34.43	Average
4	0.2174	0.04	9.72	18.83	28.59	62.92	-34.33	QP
5	0.4105	0.07	9.75	6.74	16.56	47.64	-31.08	Average
6	0.4105	0.07	9.75	14.76	24.58	57.64	-33.06	QP
7	0.5436	0.08	9.76	2.23	12.07	46.00	-33.93	Average
8	0.5436	0.08	9.76	7.06	16.90	56.00	-39.10	QP
9	3.0669	0.14	9.84	19.63	29.61	46.00	-16.39	Average
10	3.0669	0.14	9.84	20.35	30.33	56.00	-25.67	QP
11	6.5732	0.16	10.02	20.98	31.16	50.00	-18.84	Average
12	6.5732	0.16	10.02	21.45	31.63	60.00	-28.37	QP



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Test Mode: 06; Line: Live line

Site :	Shielding	Room
Condition:	Line	
Job No. :	21114AT	
Test mode:	06	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1668	0.03	9.71	29.48	39.22	55.12	-15.90	Average
2	0.1668	0.03	9.71	40.32	50.06	65.12	-15.06	QP
3	0.2029	0.04	9.72	25.90	35.66	53.49	-17.83	Average
4	0.2029	0.04	9.72	36.67	46.43	63.49	-17.06	QP
5	0.2341	0.04	9.73	23.11	32.88	52.30	-19.42	Average
6	0.2341	0.04	9.73	33.23	43.00	62.30	-19.30	QP
7	0.4040	0.06	9.76	16.62	26.44	47.77	-21.33	Average
8	0.4040	0.06	9.76	24.12	33.94	57.77	-23.83	QP
9	2.5807	0.14	9.82	10.67	20.63	46.00	-25.37	Average
10	2.5807	0.14	9.82	15.34	25.30	56.00	-30.70	QP
11	13.9886	0.16	10.46	17.44	28.06	50.00	-21.94	Average
12	13.9886	0.16	10.46	22.10	32.72	60.00	-27.28	QP



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Test Mode: 06; Line: Neutral Line

Site :	Shielding	Room
Condition:	Neutral	
Job No. :	21114AT	
Test mode:	06	

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.03	9.71	28.42	38.16	55.08	-16.92	Average
2	0.1677	0.03	9.71	40.02	49.76	65.08	-15.32	QP
3	0.1997	0.04	9.72	24.21	33.97	53.62	-19.65	Average
4	0.1997	0.04	9.72	35.15	44.91	63.62	-18.71	QP
5	0.4061	0.06	9.75	18.18	27.99	47.73	-19.74	Average
6	0.4061	0.06	9.75	25.38	35.19	57.73	-22.54	QP
7	0.6754	0.08	9.77	13.94	23.79	46.00	-22.21	Average
8	0.6754	0.08	9.77	16.99	26.84	56.00	-29.16	QP
9	2.0333	0.13	9.81	14.36	24.30	46.00	-21.70	Average
10	2.0333	0.13	9.81	18.13	28.07	56.00	-27.93	QP
11	13.4604	0.16	10.44	15.90	26.50	50.00	-23.50	Average
12	13.4604	0.16	10.44	20.74	31.34	60.00	-28.66	QP



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### 7.2 Radiated Emissions (30MHz-1GHz)

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.5
Measurement Distance:	10m

Limit:

Frequency(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		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR guasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 7.2.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.6 °C	Humidity:	49.9 % RH	Atmospheric Pressure:	1010	mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output 2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT chargingOutput1: 5W+Output 2: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT chargingOutput1: 7.5W+Output 2: 2.5W)
Final test	06	Charge mode_Keep the EUT chargingOutput1: 10W+Output 2: 2.5W)



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#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.

i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 06; Polarity: Horizontal



#### Condition: 10m HORIZONTAL Job No. : 21114AT Test Mode: 06

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.416	25.60	19.86	0.92	32.50	13.88	29.50	-15.62	QP
2	115.321	29.28	16.73	1.31	32.44	14.88	33.00	-18.12	QP
3	177.509	30.76	18.32	1.54	32.41	18.21	33.00	-14.79	QP
4 pp	354.183	41.92	20.63	2.36	32.34	32.57	35.60	-3.03	QP
5	441.743	37.15	23.09	2.57	32.30	30.51	35.60	-5.09	QP
6	893.857	25.62	29.24	3.44	31.63	26.67	35.60	-8.93	QP



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Test Mode: 06; Polarity: Vertical



#### Condition: 10m VERTICAL Job No. : 21114AT Test Mode: 06

	Frea	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.853	34.33	18.64	0.88	32.50	21.35	29.50	-8.15	QP
2	58.407	30.99	19.58	1.04	32.49	19.12	29.50	-10.38	QP
3	331.355	39.29	20.50	2.25	32.37	29.67	35.60	-5.93	QP
4 pp	354.183	41.87	20.63	2.36	32.34	32.52	35.60	-3.08	QP
5	470.523	36.26	23.70	2.69	32.30	30.35	35.60	-5.25	QP
6	965.542	27.57	29.98	3.60	31.00	30.15	44.40	-14.25	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m;

L10: Level @ 10m distance. Unit: uV/m;

D3: 3m distance. Unit: m

D10: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
30.853	21.35	11.68	38.94	31.81	40.00	-8.19	V
58.407	19.12	9.04	30.12	29.58	40.00	-10.42	V
331.355	29.67	30.44	101.48	40.13	46.00	-5.87	V
354.183	32.52	42.27	140.89	42.98	46.00	-3.02	V
470.523	30.35	32.92	109.74	40.81	46.00	-5.19	V
965.542	30.15	32.17	107.25	40.61	54.00	-13.39	V
37.416	13.88	4.94	16.48	24.34	40.00	-15.66	Н
115.321	14.88	5.55	18.49	25.34	43.50	-18.16	Н
177.509	18.21	8.14	27.13	28.67	43.50	-14.83	Н
354.183	32.57	42.51	141.70	43.03	46.00	-2.97	Н
441.743	30.51	33.54	111.78	40.97	46.00	-5.03	Н
893.857	26.67	21.55	71.84	37.13	46.00	-8.87	Н



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### 7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4
Measurement Distance:	3m

Limit:

Frequency(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		
Remark: The emission CISPR quasi-peak de emission limits in these the peak field strength specified above by mor	limits shown in the above table are ba tector except for the frequency band three bands are based on measureme of any emission shall not exceed the than 20 dB under any condition of mo	sed on measurements employing a s 9-90kHz, 110-490kHz. Radiated ents employing an average detector, maximum permitted average limits dulation.		

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{\text{near field}} = 47.77 / f_{\text{MHz}}$ where  $f_{MHz}$  is the frequency of the emission being measured in MHz.

#### 7.3.1 E.U.T. Operation

**Operating Environment:** Temperature: 23.6 °C Atmospheric Pressure: 1010 mbar Humidity: 49.9 % RH





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#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output 2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT chargingOutput1: 5W+Output 2: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT chargingOutput1: 7.5W+Output 2: 2.5W)
Final test	06	Charge mode_Keep the EUT chargingOutput1: 10W+Output 2: 2.5W)

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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9kHz-150kHz



Condition: 3m Job No. : 21114AT Test Mode: 06

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.015	73.10	16.00	0.01	31.73	57.38	124.10	-66.72	Average
2	0.030	70.02	12.66	0.01	32.17	50.52	118.09	-67.57	Average
3 pp	0.143	97.08	11.00	0.02	32.50	75.60	104.52	-28.92	Average



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150kHz-30MHz



Condition: 3m : 21114AT Job No. Test Mode: 06

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
_	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 av 2 3 pp	0.329 0.426 0.712	87.78 70.66 63.23	10.88 10.86 10.83	0.29 0.38 0.61	32.50 32.50 32.50	66.45 49.40 42.17	97.27 95.02 70.55	-30.82 -45.62 -28.38	Average Average QP



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#### 7.4 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9.2
Limit:	For report reference only

#### 7.4.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	20.7 °C	Humidity:	52.2 % RH	Atmospheric Pressure:	1010	mbai

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Final test	02	Charge mode_Keep the EUT charging(Output1: 10W)
Final test	03	Charge mode_Keep the EUT charging(Output 2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT chargingOutput1: 5W+Output 2: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT chargingOutput1: 7.5W+Output 2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT chargingOutput1: 10W+Output 2: 2.5W)

#### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.4 Measurement Procedure and Data



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#### 7.5 Restricted Bands

Test Requirement	47 CFR Part 15, Subpart C 15.205
Test Method:	ANSI C63.10 (2013) Section 6.10.5
Limit:	The fundamental wave could not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz

#### 7.5.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	20.7 °C	Humidity:	52.2 % RH	Atmospheric Pressure: 1010 r	nbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Final test	02	Charge mode_Keep the EUT charging(Output1: 10W)
Final test	03	Charge mode_Keep the EUT charging(Output 2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT chargingOutput1: 5W+Output 2: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT chargingOutput1: 7.5W+Output 2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT chargingOutput1: 10W+Output 2: 2.5W)

#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data



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According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz, the field strength also meets the 15.209 requirement, please refer to clause 7.3.



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Mode 03:



According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz, the field strength also meets the 15.209 requirement, please refer to clause 7.3.



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#### **Test Setup Photo** 8

Refer to test setup Photos for SZCR2105021114AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2105021114AT

- End of the Report -



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

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