

Report No.: SZEM200100053101

Page: 1 of 32

TEST REPORT

Application No.: SZEM2001000531CR

Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.

Address of Applicant: 23/F Building A, Shenzhen International Innovation Center, No.1006

Shennan Road, Futian, Shenzhen, China

Manufacturer: SHENZHEN DNS INDUSTRIES CO., LTD.

Address of Manufacturer: 23/F Building A, Shenzhen International Innovation Center, No.1006

Shennan Road, Futian, Shenzhen, China

HUIZHOU D&S CABLE CO., LTD. Factory:

Address of Factory: LONGJIN DONGJIANG INDUSTRY ZONE, SHUIKOU, HUICHENG.

HUIZHOU, GUANGDONG, CHINA

Equipment Under Test (EUT):

EUT Name: WIRELESS CHARGER

Model No.: WD-224C Trade mark: DNS

FCC ID: ZBCWD-224C

Standard(s): 47 CFR Part 15, Subpart C

Date of Receipt: 2020-01-16

2020-01-19 to 2020-03-16 Date of Test:

Date of Issue: 2020-03-19

PASS* **Test Result:**

中国·深圳·科技园中区M-10栋一号厂房



Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM200100053101

Page: 2 of 32

	Revision Record						
Version	Remark						
01		2020-03-19		Original			

Authorized for issue by:			
	Peter. Grag		
	Peter Geng /Project Engineer		
	EvicFu		
	Eric Fu /Reviewer		



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Report No.: SZEM200100053101

Page: 3 of 32

Test Summary

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



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Report No.: SZEM200100053101

Page: 4 of 32

Contents

_			age
1	CO	/ER PAGE	1
2	TES	T SUMMARY	3
3	CON	NTENTS	_
4	GEN	NERAL INFORMATION	
	4.1	DETAILS OF E.U.T. DESCRIPTION OF SUPPORT UNITS	
	4.2 4.3	MEASUREMENT UNCERTAINTY	
	4.4	TEST LOCATION	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
_	4.7		
5	EQU	JIPMENT LIST	8
6	RAD	DIO SPECTRUM TECHNICAL REQUIREMENT	11
	6.1	ANTENNA REQUIREMENT	
	6.1.		
	6.1.2	2 Conclusion	11
7	RAD	DIO SPECTRUM MATTER TEST RESULTS	12
	7.1	CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	12
	7.1.	1 E.U.T. Operation	13
	7.1.2 7.1.3	3 - 3 - 3	
	7.1.	20dB Bandwidth	
	7.2.		
	7.2.2		
	7.2.		
	7.3 <i>7.3.</i>	RESTRICTED BANDS	
	7.3.2	·	
	7.3.		
	7.4	RADIATED EMISSIONS (9KHZ-30MHZ)	
	7.4. 7.4.2	•	
	7.4.	· · · ·	
	7.5	RADIATED EMISSIONS (30MHz-1GHz)	
	7.5.		
	7.5.2 7.5.3	, 5	
8	_	OTOGRAPHS	
J		TEST SETUP	
	8.1	1601 06104	32



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Report No.: SZEM200100053101

Page: 5 of 32

8.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)......32



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Report No.: SZEM200100053101

Page: 6 of 32

General Information

4.1 Details of E.U.T.

Power Supply:	AC/DC adapter information,
	Input: AC 100-240V, 50/60Hz, 0.5A
	Output: DC 12V/1.5A, 9V/2A, 5V/3A
	for wireless charger,
	Input: DC 5V/3A, 9V/2A
	Output:
	wireless charger 1: 5W, 7.5W, 10W
	wireless charger 2: 5W
Cable:	USB A to Type C cable: 100cm, unshielded
Operation frequency:	110.26-146.47kHz
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Occupied Bandwidth	± 3%
3	Conduction emission	± 3.0dB (150kHz to 30MHz)
4	Radiated Spurious emission test	± 4.5dB (Below 1GHz)
5	Temperature test	± 1°C
6	Humidity test	± 3%
7	Supply voltages	± 1.5%
8	Time	± 3%



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Report No.: SZEM200100053101

Page: 7 of 32

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

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. 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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Page: 8 of 32

5 **Equipment List**

Conducted Emissions at AC Power Line (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	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31	

Radiated Emissions (9kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10	
EMI Test Receiver	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	

Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10	
EMI Test Receiver	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	



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Report No.: SZEM200100053101

Page: 9 of 32

20 dB bandwidth						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	ZhaoXin	PS-3005D	SEM011-05	2019-09-24	2020-09-23	
Spectrum Analyzer (20Hz- 43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019-04-12	2020-04-11	
Signal Generator (9kHz- 40GHz)	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2019-07-11	2020-07-10	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2019-04-01	2020-03-31	

Restricted Bands					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	ZhaoXin	PS-3005D	SEM011-05	2019-09-24	2020-09-23
Spectrum Analyzer (20Hz- 43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019-04-12	2020-04-11
Signal Generator (9kHz- 40GHz)	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2019-04-01	2020-03-31



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Report No.: SZEM200100053101

Page: 10 of 32

General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03					



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Report No.: SZEM200100053101

Page: 11 of 32

6 Radio Spectrum Technical Requirement

Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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 uses a unique coupling to the intentional radiator, 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.

6.1.2 Conclusion

EUT Antenna:

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

Antenna location: Refer to internal photos.



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Report No.: SZEM200100053101

Page: 12 of 32

Radio Spectrum Matter Test Results 7

Conducted Emissions at AC Power Line (150kHz-30MHz)

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

Limit:

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



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Report No.: SZEM200100053101

Page: 13 of 32

7.1.1 E.U.T. Operation

Operating Environment:

23.5 °C Temperature: Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a:Charge mode Keep the EUT charging(wireless charger 1: 5W) b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)

c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)

d: Charge mode Keep the EUT charging(wireless charger 2: 5W)

e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless

charger 2: 5W)

f: Charge mode Keep the EUT charging(wireless charger 1: 7.5W+wireless

charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

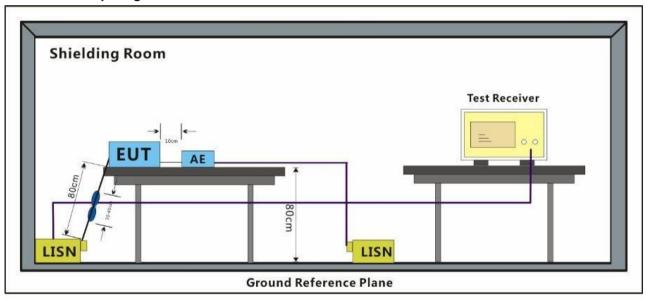
charger 2: 5W)

The worst case for final test:

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

charger 2: 5W)

7.1.2 Test Setup Diagram





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Report No.: SZEM200100053101

Page: 14 of 32

7.1.3 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/50µH + 5ohm 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
- 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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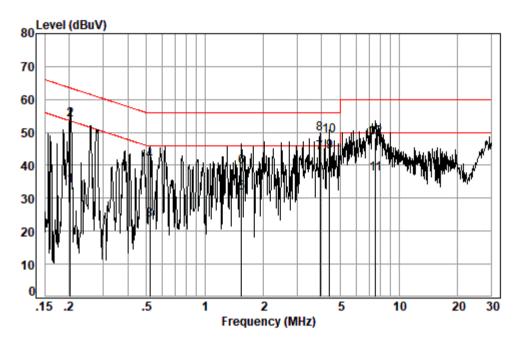
14



Report No.: SZEM200100053101

Page: 15 of 32

Mode:g; Line:Live Line



: Shielding Room

Condition: Line Job No. : 00531CR

Test mode: g

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2029	0.02	9.59	24.30	33.91	53.49	-19.58	Average
2	0.2029	0.02	9.59	44.12	53.73	63.49	-9.76	QP
3	0.5210	0.06	9.59	13.66	23.31	46.00	-22.69	Average
4	0.5210	0.06	9.59	31.79	41.44	56.00	-14.56	QP
5	1.5436	0.13	9.61	21.77	31.51	46.00	-14.49	Average
6	1.5436	0.13	9.61	29.87	39.61	56.00	-16.39	QP
7	3.9169	0.16	9.65	34.10	43.91	46.00	-2.09	Average
8	3.9169	0.16	9.65	39.80	49.61	56.00	-6.39	QP
9	4.3838	0.16	9.66	34.40	44.22	46.00	-1.78	Average
10	4.3838	0.16	9.66	39.20	49.02	56.00	-6.98	QP
11	7.5658	0.17	9.74	27.65	37.56	50.00	-12.44	Average
12	7.5658	0.17	9.74	38.45	48.36	60.00	-11.64	QP



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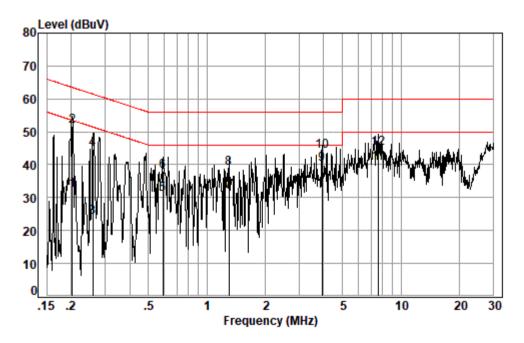
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Report No.: SZEM200100053101

Page: 16 of 32

Mode:g; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00531CR

Test mode: g

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2029	0.02	9.55	22.70	32.27	53.49	-21.22	Average
2	0.2029	0.02	9.55	42.29	51.86	63.49	-11.63	QP
3	0.2589	0.03	9.54	14.59	24.16	51.47	-27.31	Average
4	0.2589	0.03	9.54	35.14	44.71	61.47	-16.76	QP
5	0.5948	0.07	9.55	21.30	30.92	46.00	-15.08	Average
6	0.5948	0.07	9.55	28.25	37.87	56.00	-18.13	QP
7	1.3029	0.12	9.55	22.29	31.96	46.00	-14.04	Average
8	1.3029	0.12	9.55	29.22	38.89	56.00	-17.11	QP
9	3.9222	0.16	9.60	30.44	40.20	46.00	-5.80	Average
10	3.9222	0.16	9.60	34.47	44.23	56.00	-11.77	QP
11	7.6060	0.17	9.72	30.45	40.34	50.00	-9.66	Average
12	7.6060	0.17	9.72	35.05	44.94	60.00	-15.06	QP



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Report No.: SZEM200100053101

Page: 17 of 32

7.2 20dB Bandwidth

Test Requirement Test Method: Limit:

47 CFR Part 15, Subpart C 15.215 ANSI C63.10 (2013) Section 6.9.2

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Report No.: SZEM200100053101

Page: 18 of 32

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.6 % RH

Pretest these modes to find the worst case: a:Charge mode_Keep the EUT charging(wireless charger 1: 5W) b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)

c: Charge mode Keep the EUT charging(wireless charger 1: 10W)

d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)

e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless

charger 2: 5W)

f: Charge mode Keep the EUT charging(wireless charger 1: 7.5W+wireless

charger 2: 5W)

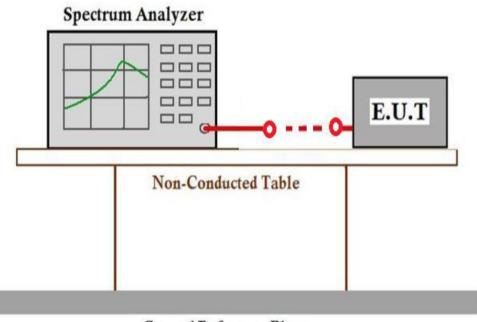
g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless Worst case

charger 2: 5W)

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data



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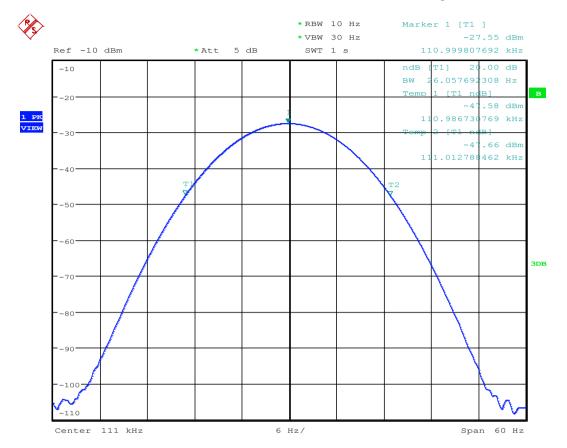
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Report No.: SZEM200100053101

Page: 20 of 32

7.3 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 can not fall in the restricted band 90KHz-110KHz

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.6 °C Humidity: 42.6 % RH

Pretest these modes to find the worst case: a:Charge mode_Keep the EUT charging(wireless charger 1: 5W) b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)

c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)

d: Charge mode_Keep the EUT charging(wireless charger 2: 5W) e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless

charger 2: 5W)

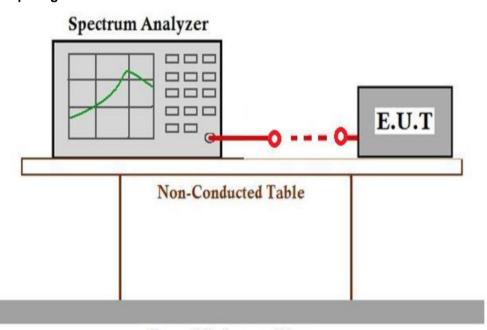
f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless

charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

charger 2: 5W)

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data



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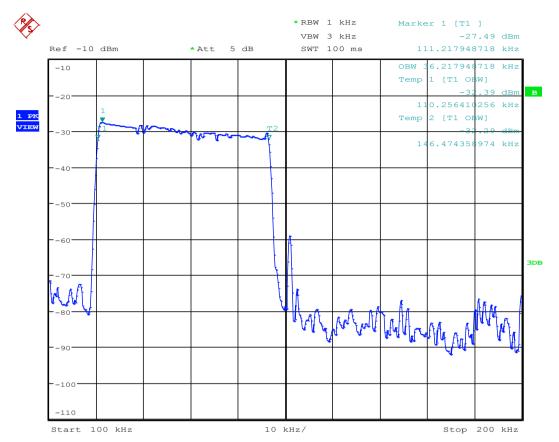
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Report No.: SZEM200100053101

Page: 21 of 32





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Report No.: SZEM200100053101

Page: 22 of 32

7.4 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 limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. 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.

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):

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

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

Remark:

 $d_{\text{near field}} = 47.77 / f_{\text{MHz}}$

where f_{MHz} is the frequency of the emission being measured in MHz.



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Report No.: SZEM200100053101

Page: 23 of 32

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

a:Charge mode_Keep the EUT charging(wireless charger 1: 5W)

b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)

c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)

d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)

e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless

e: Charge mode_keep the EUT charging(wireless charger 1: 5W+wireles charger 2: 5W)

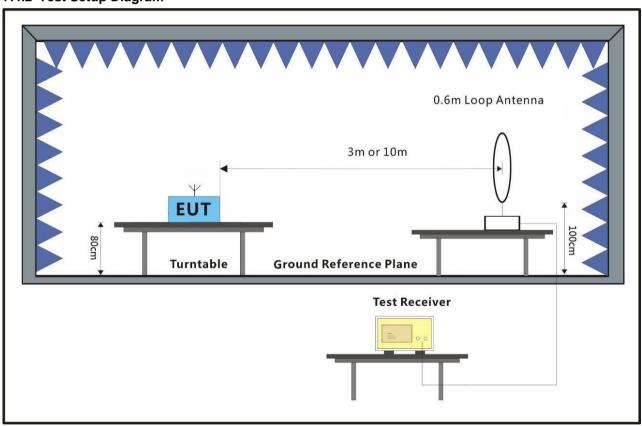
f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

charger 2: 5W)

The worst case g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

7.4.2 Test Setup Diagram



7.4.3 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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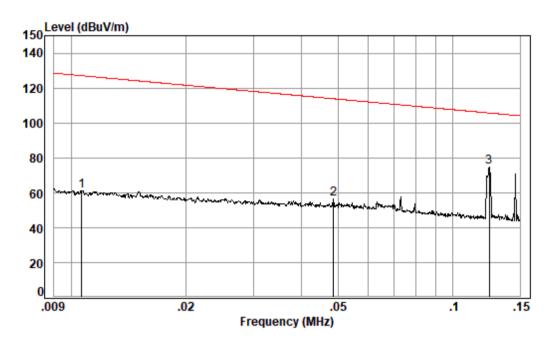
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Report No.: SZEM200100053101

Page: 24 of 32



Condition: 3m

Job No. : 00531CR

Test Mode: g

	Freq		Preamp Factor						
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	20.54	30.68	0.90	70.27	61.03	127.05	-66.02	Average
2	0.049	14.56	31.71	0.01	73.45	56.31	113.86	-57.55	Average
3 pp	0.125	13.97	32.20	0.02	92.64	74.43	105.70	-31.27	Average



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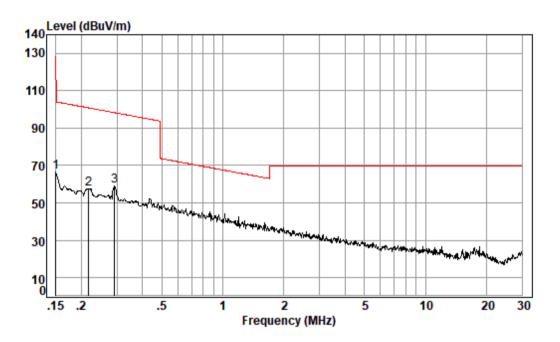
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Report No.: SZEM200100053101

Page: 25 of 32



Condition: 3m

Job No. : 00531CR

Test Mode: g

	Freq		Preamp Factor						Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 pp	0.150	13.94	32.20	0.02	84.71	66.47	104.08	-37.61	Average	
2	0.217	13.88	32.22	0.03	75.90	57.59	100.86	-43.27	Average	
3	0.292	13.81	32.23	0.04	77.39	59.01	98.28	-39.27	Average	



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Report No.: SZEM200100053101

Page: 26 of 32

7.5 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)		
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 quasi-peak detector except for the frequency bands 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.



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Report No.: SZEM200100053101

Page: 27 of 32

7.5.1 E.U.T. Operation

Operating Environment:

25 Temperature: °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

a:Charge mode Keep the EUT charging(wireless charger 1: 5W) b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)

c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)

d: Charge mode Keep the EUT charging(wireless charger 2: 5W)

e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless

charger 2: 5W)

f: Charge mode Keep the EUT charging(wireless charger 1: 7.5W+wireless

charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

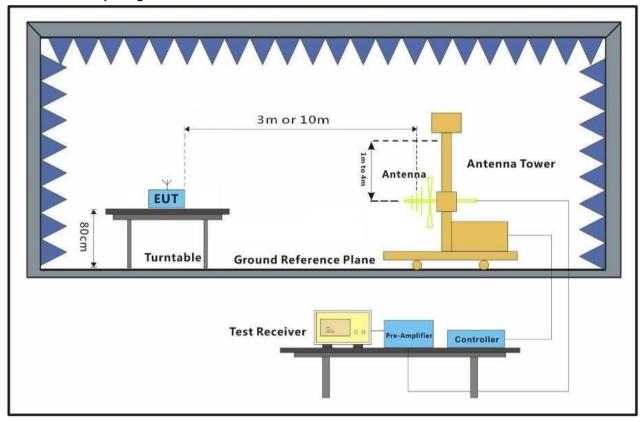
charger 2: 5W)

The worst case for final test:

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless

charger 2: 5W)

7.5.2 Test Setup Diagram





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Report No.: SZEM200100053101

Page: 28 of 32

7.5.3 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 3 meter 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 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
- 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

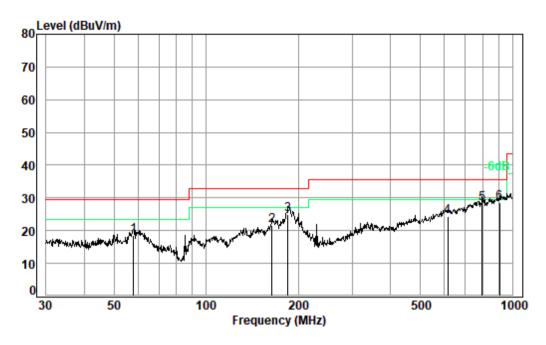




Report No.: SZEM200100053101

Page: 29 of 32

Mode:g; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 00531CR

Test Mode: g

		Ant	Preamp	Cable	Read		Limit	0ver	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	57.999	19.70	32.43	1.03	30.21	18.51	29.50	-10.99	QP
2	164.330	19.58	32.30	1.51	32.69	21.48	33.00	-11.52	QP
3	185.138	17.27	32.29	1.57	38.53	25.08	33.00	-7.92	QP
4	614.214	26.42	32.06	3.17	26.89	24.42	35.60	-11.18	QΡ
5	796.183	28.56	31.93	3.28	28.39	28.30	35.60	-7.30	QР
6 pp	906.482	29.46	31.48	3.42	27.31	28.71	35.60	-6.89	QP



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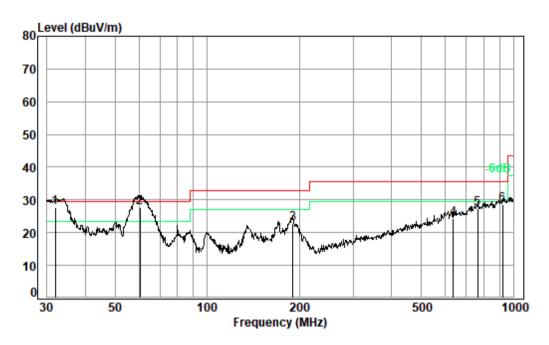
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Report No.: SZEM200100053101

Page: 30 of 32

Mode:g; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 00531CR

Test Mode: g

	Гпол		Preamp						Damanle
_	Freq	-actor	Factor		revei	revei	Line		Kemark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.955	18.70	32.39	0.87	40.49	27.67	29.50	-1.83	QP
2 pp	60.280	19.10	32.42	1.04	40.00	27.72	29.50	-1.78	QP
3	190.405	16.59	32.29	1.58	37.05	22.93	33.00	-10.07	QP
4	636.134	26.26	32.11	3.19	27.03	24.37	35.60	-11.23	QP
5	763.376	28.32	32.04	3.27	27.81	27.36	35.60	-8.24	QP
6	922.516	29.80	31.40	3.45	26.62	28.47	35.60	-7.13	QP



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Report No.: SZEM200100053101

Page: 31 of 32

Radiated Emission below 1GHz

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:

L₃: 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:

The level at on 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			
31.96	27.67	24.18	80.61	38.13	40.00	-1.87	V			
60.28	27.72	24.32	81.07	38.18	40.00	-1.82	V			
190.41	22.93	14.01	46.71	33.39	43.50	-10.11	V			
636.13	24.37	16.54	55.13	34.83	46.00	-11.17	V			
763.38	27.36	23.33	77.78	37.82	46.00	-8.18	V			
922.52	28.47	26.52	88.39	38.93	46.00	-7.07	V			
58.00	18.51	8.42	28.08	28.97	40.00	-11.03	Н			
164.33	21.48	11.86	39.53	31.94	43.50	-11.56	Н			
185.14	25.08	17.95	59.82	35.54	43.50	-7.96	Н			
614.21	24.42	16.63	55.45	34.88	46.00	-11.12	Н			
796.18	28.30	26.00	86.67	38.76	46.00	-7.24	Н			
906.48	28.71	27.26	90.86	39.17	46.00	-6.83	Н			



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Report No.: SZEM200100053101

Page: 32 of 32

8 **Photographs**

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -



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