

Report No.: SZEM191202077603

1 of 28 Page:

TEST REPORT

Application No.: SZEM1912020776CR Applicant: Voxx Accessories Corp.

Address of Applicant: 3502 Woodview Trace suite 220, Indianapolis, Indiana, 46268, United

Manufacturer: Shenzhen Great Power Innovation and Technology Enterprise Co., Ltd No. 331, No. 335, Guiyue Road, Dafu Community, Guanlan Street, Longhua Address of Manufacturer:

District, Shenzhen, China

Factory: Shenzhen Great Power Innovation and Technology Enterprise Co., Ltd

No. 331, No. 335, Guiyue Road, Dafu Community, Guanlan Street, Longhua Address of Factory:

District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Wireless Charging Speaker Model No.: SPQ820, ARQ820

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: 808 AR(Acoustic Research)

FCC ID: VIXSPQ820

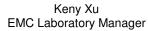
47 CFR Part 15, Subpart C Standard(s):

Date of Receipt: 2019-12-02

Date of Test: 2019-12-03 to 2019-12-11

Date of Issue: 2019-12-13

Pass* **Test Result:**



Ceny. Ku



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



Report No.: SZEM191202077603

Page: 2 of 28

	Revision Record							
Version	Version Chapter Date Modifier Remark							
01		2019-12-13		Original				

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Report No.: SZEM191202077603

Page: 3 of 28

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	er 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

Remark:

Model No.: SPQ820, ARQ820

Only the model SPQ820 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on trade mark and packaging for marketing purpose.



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Report No.: SZEM191202077603

Page: 4 of 28

Contents

			Page
1	cov	ER PAGE	1
2	TES	T SUMMARY	3
			_
3	CON	ITENTS	4
4	GEN	ERAL INFORMATION	5
	4.1	DETAILS OF E.U.T.	
	4.2	DESCRIPTION OF SUPPORT UNITS	
	4.3	MEASUREMENT UNCERTAINTY	
	4.4	TEST LOCATION	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQU	IPMENT LIST	7
6	BAD	IO SPECTRUM TECHNICAL REQUIREMENT	10
U			
	6.1	ANTENNA REQUIREMENT	
	6.1.1 6.1.2		
	_		
7	RAD	IO SPECTRUM MATTER TEST RESULTS	
	7.1	CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	
	7.1.1	_ · · · · · · · · · · · · · · · · · · ·	
	7.1.2		
	7.1.3		
	7.2	20DB BANDWIDTH	
	7.2.1 7.2.2	•	
	7.2.3	, •	
	7.3	RESTRICTED BANDS	
	7.3.1		
	7.3.2		
	7.3.3	Measurement Procedure and Data	17
		RADIATED EMISSIONS (9KHz-30MHz)	-
		E.U.T. Operation	
		Part Setup Diagram	
	7.4.3		
	7.5	RADIATED EMISSIONS (30MHz-1GHz)	
	7.5.1 7.5.2		
	7.5.2 7.5.3	1 0	
0		TOGRAPHS	
8			
	8.1	TEST SETUP	
	8.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	28



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Report No.: SZEM191202077603

Page: 5 of 28

General Information

Details of E.U.T. 4.1

Power Supply:	DC3.7V by li-ion battery
	Recharge input: DC5V/2A via USB port
	Wireless output: 5W
Cable:	USB cable: 0.6m unshielded cable without ferrite core
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	113.78kHz to 139.10kHz
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
Adapter	Nokia	AD-18WE	N/A

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	Conduction emission	± 3.0dB (150kHz to 30MHz)
5	RF conducted power	± 0.75dB
6	RF power density	± 2.84dB
7	Conducted Spurious emissions	± 0.75dB
8	DE Dadiated newer	± 4.5dB (Below 1GHz)
0	RF Radiated power	± 4.8dB (Above 1GHz)
9	Dadiated Churique amission test	± 4.5dB (Below 1GHz)
9	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
10	Temperature test	± 1 ℃
11	Humidity test	± 3%
12	Supply voltages	± 1.5%
13	Time	± 3%



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Report No.: SZEM191202077603

Page: 6 of 28

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

4.7 Abnormalities from Standard Conditions

None



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Page: 7 of 28

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		

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	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10		
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23		
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06		
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20		
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07		

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	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23		
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10		
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23		
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06		



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Report No.: SZEM191202077603

Page: 8 of 28

Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

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 (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31				
Trilog-Broadband Antenna (30MHz-1GHz)	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				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10				
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23				
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26				
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31				



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Report No.: SZEM191202077603

Page: 9 of 28

General used equipmen	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.: SZEM191202077603

Page: 10 of 28

Radio Spectrum Technical Requirement 6

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

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

Antenna location: Refer to Appendix(Internal photos)



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Report No.: SZEM191202077603

11 of 28 Page:

7 **Radio Spectrum Matter Test Results**

7.1 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						
*Decreases with the logarithm of the frequency.								



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Report No.: SZEM191202077603

Page: 12 of 28

7.1.1 E.U.T. Operation

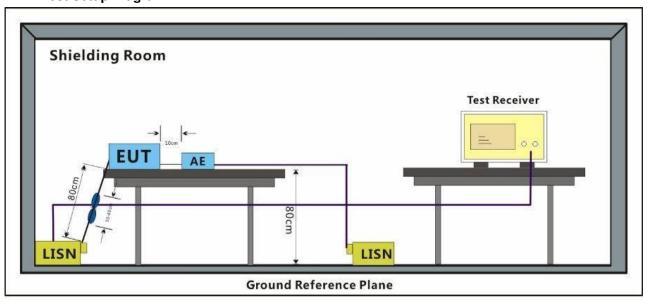
Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar Humidity: 50.1 % RH

Test mode: g: Wireless Charge mode(5W) Keep the EUT in adapter charging and wireless

discharging to a mobile phone

7.1.2 Test Setup Diagram



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 + 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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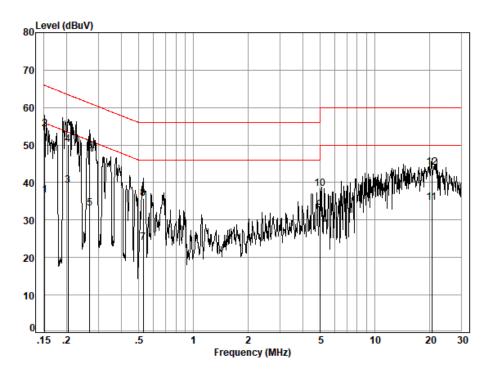
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Report No.: SZEM191202077603

Page: 13 of 28

Mode:g; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 20776CR

Test mode: g

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
1	0.15	0.01	9.59	27.13	36.73	55.91	-19.18	Average
2	0.15	0.01	9.59	44.75	54.35	65.91	-11.56	QP
3	0.20	0.02	9.59	29.56	39.17	53.45	-14.28	Average
4	0.20	0.02	9.59	40.58	50.19	63.45	-13.26	QP
5	0.27	0.03	9.59	23.41	33.03	51.16	-18.13	Average
6	0.27	0.03	9.59	38.79	48.41	61.16	-12.75	QP
7	0.53	0.06	9.59	14.40	24.05	46.00	-21.95	Average
8	0.53	0.06	9.59	26.11	35.76	56.00	-20.24	QP
9	4.98	0.17	9.67	22.76	32.60	46.00	-13.40	Average
10	4.98	0.17	9.67	28.57	38.41	56.00	-17.59	QP
11	20.59	0.24	10.63	23.76	34.63	50.00	-15.37	Average
12	20.59	0.24	10.63	33.22	44.09	60.00	-15.91	QP



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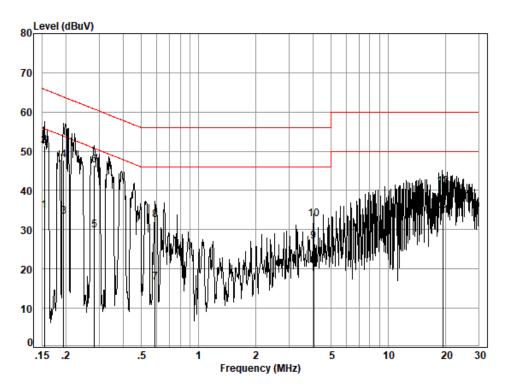
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Report No.: SZEM191202077603

Page: 14 of 28

Mode:g; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 20776CR

Test mode: g

	Frea	Cable	LISN Factor	Read	Lovel	Limit Line	Over	Remark
			-accor	rever	Level	LINE		Kelliai K
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.55	25.29	34.85	55.78	-20.93	Average
2	0.15	0.01	9.55	41.85	51.41	65.78	-14.37	QP
3	0.19	0.02	9.55	23.75	33.32	53.84	-20.52	Average
4	0.19	0.02	9.55	38.25	47.82	63.84	-16.02	QP
5	0.28	0.04	9.54	20.33	29.91	50.72	-20.81	Average
6	0.28	0.04	9.54	36.91	46.49	60.72	-14.23	QP
7	0.59	0.07	9.55	7.00	16.62	46.00	-29.38	Average
8	0.59	0.07	9.55	22.92	32.54	56.00	-23.46	QP
9	4.05	0.16	9.60	17.34	27.10	46.00	-18.90	Average
10	4.05	0.16	9.60	23.03	32.79	56.00	-23.21	QP
11	19.49	0.24	10.60	22.70	33.54	50.00	-16.46	Average
12	19.49	0.24	10.60	30.18	41.02	60.00	-18.98	OP



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Report No.: SZEM191202077603

Page: 15 of 28

7.2 20dB Bandwidth

Test Requirement Test Method:

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

Limit:

For report reference only

7.2.1 E.U.T. Operation

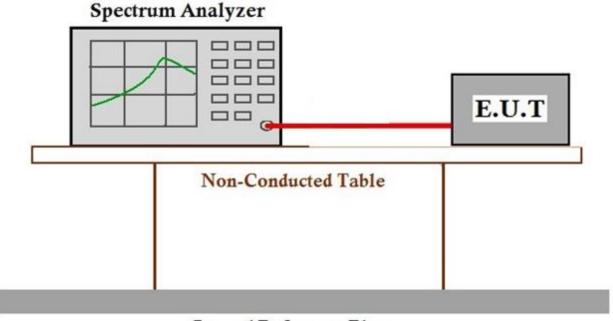
Operating Environment:

Humidity: 35.9 % RH Temperature: 28.3 °C Atmospheric Pressure: 1005 mbar Test mode:

h: Wireless Charge mode(5W)_Keep the EUT wireless discharging to a mobile

phone

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data



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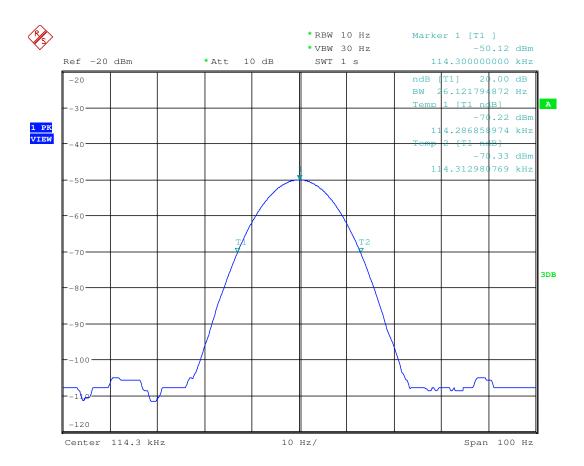
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Report No.: SZEM191202077603

Page: 17 of 28

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

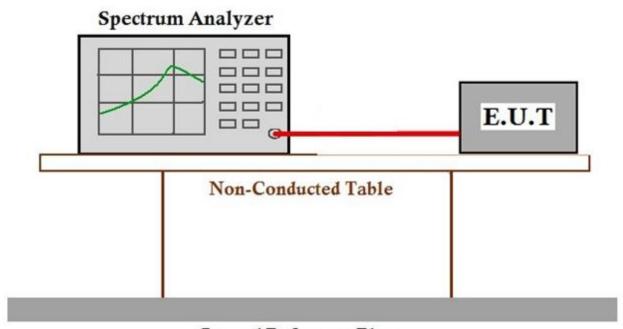
Operating Environment:

Temperature: 28.3 °C Humidity: 35.9 % RH Atmospheric Pressure: 1005 mbar Test mode:

h: Wireless Charge mode(5W)_Keep the EUT wireless discharging to a mobile

phone

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data



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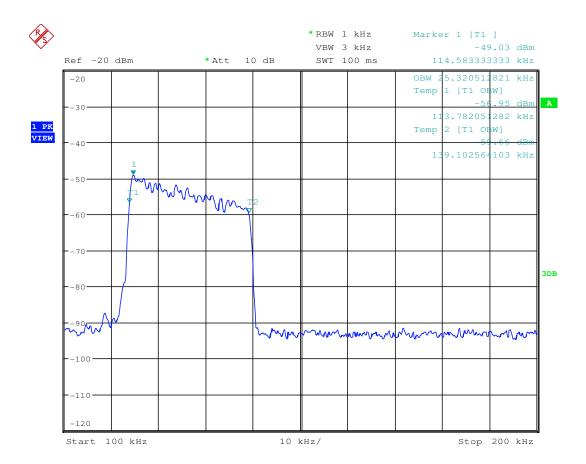
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Page: 19 of 28

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
Ī	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:

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

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



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Report No.: SZEM191202077603

Page: 20 of 28

7.4.1 E.U.T. Operation

Operating Environment:

Humidity: 45 % RH 25 Atmospheric Pressure: 1005 mbar Temperature:

g: Wireless Charge mode(5W) Keep the EUT in adapter charging and wireless Pretest these

modes to find discharging to a mobile phone

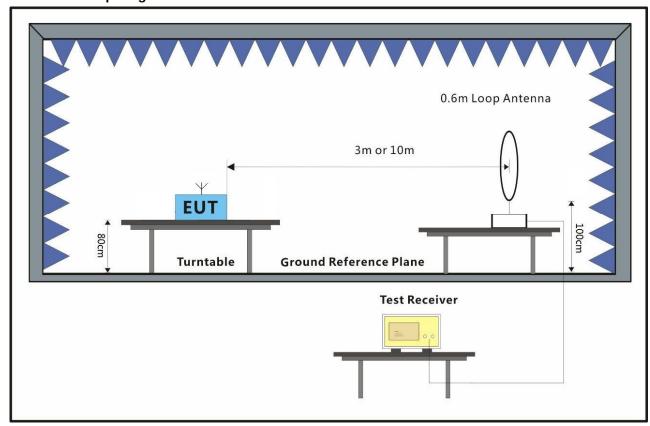
the worst case: h: Wireless Charge mode(5W) Keep the EUT wireless discharging to a mobile

phone

The worst case g: Wireless Charge mode(5W)_Keep the EUT in adapter charging and wireless

for final test: discharging to a mobile phone

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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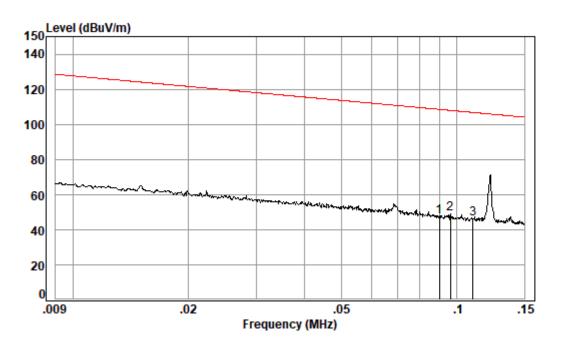
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Report No.: SZEM191202077603

Page: 21 of 28

Mode g: 9K-150K



Condition: 3m

Job No. : 20776CR

Test Mode: g

	Freq		Preamp Factor						Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1									Average
			32.16 32.19						Qr Average



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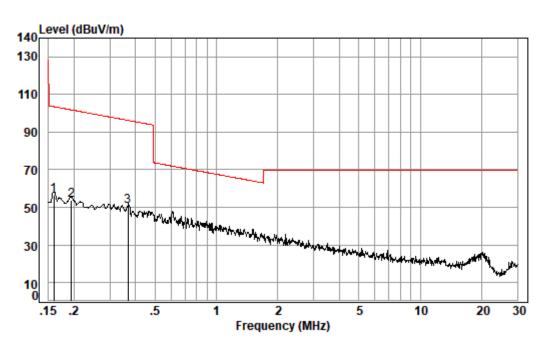


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Report No.: SZEM191202077603

Page: 22 of 28

150k-30M



Condition: 3m

Job No. : 20776CR

Test Mode: g

	Freq		Preamp Factor						Remark	
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	0.160	13.93	32.21	0.02	74.48	56.22	103.53	-47.31	Average	
2	0.194	13.90	32.21	0.03	71.81	53.53	101.83	-48.30	Average	
3 рр	0.369	13.80	32.24	0.04	68.84	50.44	96.26	-45.82	Average	



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Report No.: SZEM191202077603

Page: 23 of 28

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: 3m

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 this band 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.





Report No.: SZEM191202077603

Page: 24 of 28

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 Humidity: 45 % RH Atmospheric Pressure: 1005 mbar

g: Wireless Charge mode(5W) Keep the EUT in adapter charging and wireless Pretest these

discharging to a mobile phone modes to find

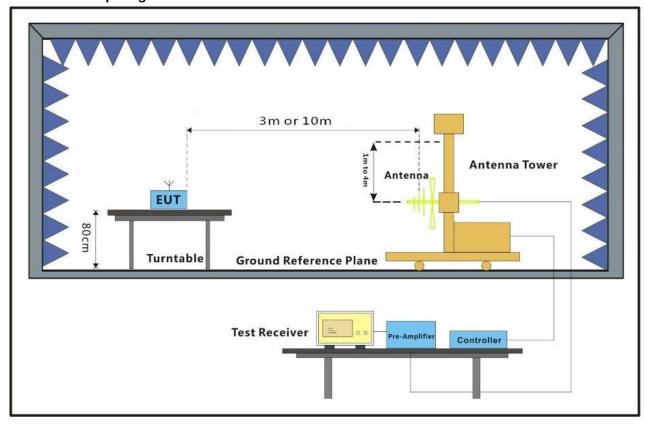
the worst case: h: Wireless Charge mode(5W) Keep the EUT wireless discharging to a mobile

phone

The worst case g: Wireless Charge mode(5W)_Keep the EUT in adapter charging and wireless

for final test: discharging to a mobile phone

7.5.2 Test Setup Diagram





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Report No.: SZEM191202077603

Page: 25 of 28

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 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

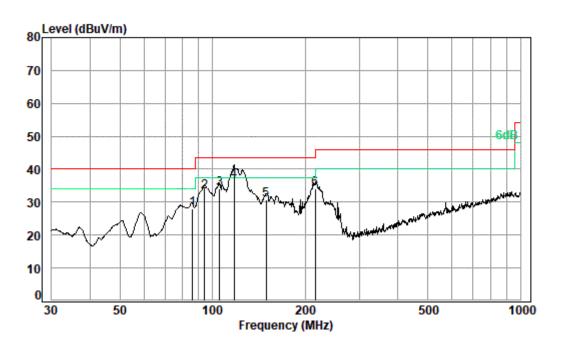




Report No.: SZEM191202077603

Page: 26 of 28

Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 20776CR

Test mode: g

		An+	Cable	Pood		Limit	Over	
	Freq	Factor	Loss	Level	Level	Line	Limit	Remark
	MHZ	dB/m	aв	dBuV	dBuV/m	dBuV/m	aв	
1	96 20	12 70	1 10	<i>1</i> 1 60	27 9/	40 00	12 16	OD
	86.20							•
2	94.10	13.48	1.14	46.23	33.21	43.50	-10.29	QP
3	105.64	13.73	1.22	46.60	33.95	43.50	-9.55	QP
4 pp	117.36	13.21	1.25	49.45	36.38	43.50	-7.12	QP
5	149.49	14.58	1.32	42.16	30.69	43.50	-12.81	QP
6	215.27	17.04	1.49	42.79	34.20	43.50	-9.30	OP



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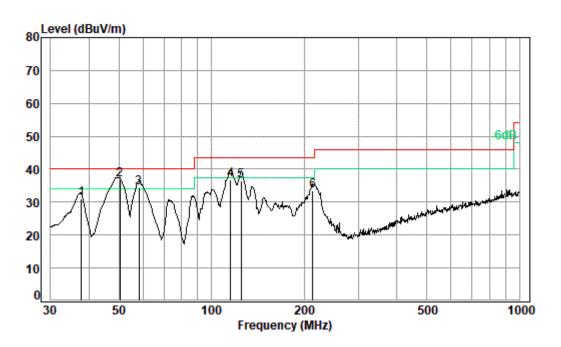
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Report No.: SZEM191202077603

Page: 27 of 28

Mode:g; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 207776CR

Test mode: g

	0							
		Ant	Cable	Read		Limit	0ver	
	Freq	Factor	Loss	Level	Level	Line	Limit	Remark
_								
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	27.04	40.40	0.60	20 52	20.00	40.00	0.40	0.0
1	37.81	18.48	0.60	39.53	30.90	40.00	-9.10	QР
2	50.41	14.16	0.80	49.61	36.88	40.00	-3.12	QP
3	58.20	13.37	0.80	47.99	34.48	40.00	-5.52	QP
4 pp	115.32	13.30	1.24	49.93	36.93	43.50	-6.57	QP
5	125.01	13.26	1.26	49.44	36.47	43.50	-7.03	QP
6	213.02	16.96	1.48	42.14	33.46	43.50	-10.04	OP



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Report No.: SZEM191202077603

Page: 28 of 28

Photographs 8

8.1 Test Setup

Refer to Setup Photos

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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