TEST REPORT

Application No.:	GZCR2109021029AT
Applicant:	HONOTO TECHNOLOGY CO., LTD
Address of Applicant:	9 ORCHARD ROAD, SUITE 102 LAKE FOREST, California 92630 United States of America
Manufacturer:	Goldfield Technology Company Limited
Address of Manufacturer:	No.28 Lingxia Road, Tian Tou Jiao Village, Qiaotou Town Dongguan, Guangdong, CN
Factory:	Goldfield Technology Company Limited
Address of Factory:	No.28 Lingxia Road, Tian Tou Jiao Village, Qiaotou Town Dongguan, Guangdong, CN
Equipment Under Test (EUT):	
EUT Name:	Freedom Charge
Model No.:	WLS-A04-02 (Black), WLS-A04-09 (Silver)♣
♣	Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart C
Date of Receipt:	2021-09-08
Date of Test:	2021-10-06 to 2021-12-04
Date of Issue:	2021-12-07
Test Result:	**Pass***

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

Kobe Jian
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		*2021-12-07*		*Original*

Authorized for issue by				
		Curry Wu/Project Engineer		
		Ricky Liu/Reviewer		

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2 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 Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
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
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)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Restricted band		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

Model No.: WLS-A04-02 (Black), WLS-A04-09 (Silver)

WLS-A04-09 (Silver) has been tested fully, and the model WLS-A04-02 (Black) was performed the Conducted Emissions and Radiated Emissions test for discrepancy. Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model number, color and the USB cable of WLS-A04-09 (Silver) is 3Pin which support PD fast charging protocol; the USB cable of WLS-A04-02 (Black) is 5Pin which support QC fast charging protocol.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 5V/2A, 9V/2A, 12V/1.67A Output:5W/7.5W/10W/15W
Cable(s):	DC Cable:100cm unshielded
Modulation Type:	Load modulation
Antenna Type:	Loop antenna
Operation Frequency:	115.1kHz to 161.4kHz
Remark:	1 Tests were conducted in all load modes and the worst case mode was reported in each test item. 2 WLS-A04-09 (Silver) was tested with UGREEN PD Adapter; WLS-A04-02 (Black) was tested with Nokia QC Adapter.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
QC Adapter	Nokia	AD-18WC	REF. No.SEA05J01A
PD Adapter	UGREEN	CD137	Client provided

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 3%
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.12dB
Radiated Emissions (30MHz-1GHz)	± 5.06dB （3m） ± 4.46dB （10m）
Radiated Emissions (9kHz-30MHz)	± 4.5dB
Restricted band	± 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:

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No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

20dB Bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
				2021-11-01	2023-10-31

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

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Radiated Emissions (9kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

Restricted band					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
				2021-11-01	2023-10-31

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

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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.

EUT Antenna:

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

Please refer to internal photos.

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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

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

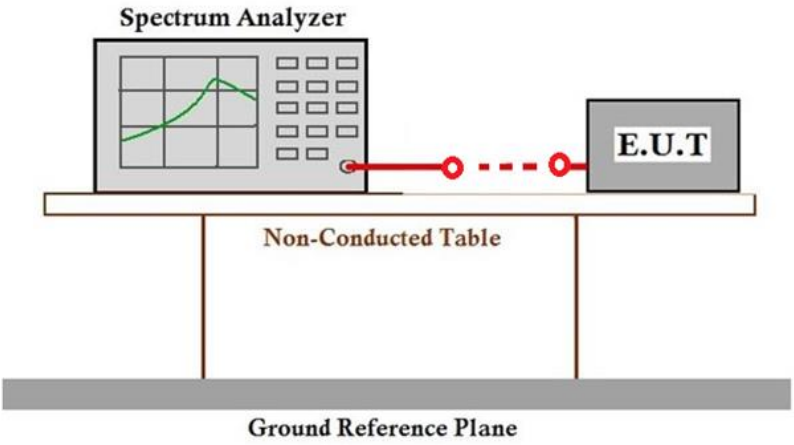
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 54.8 % RH Atmospheric Pressure: 1008 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

7.1.3 Test Setup Diagram



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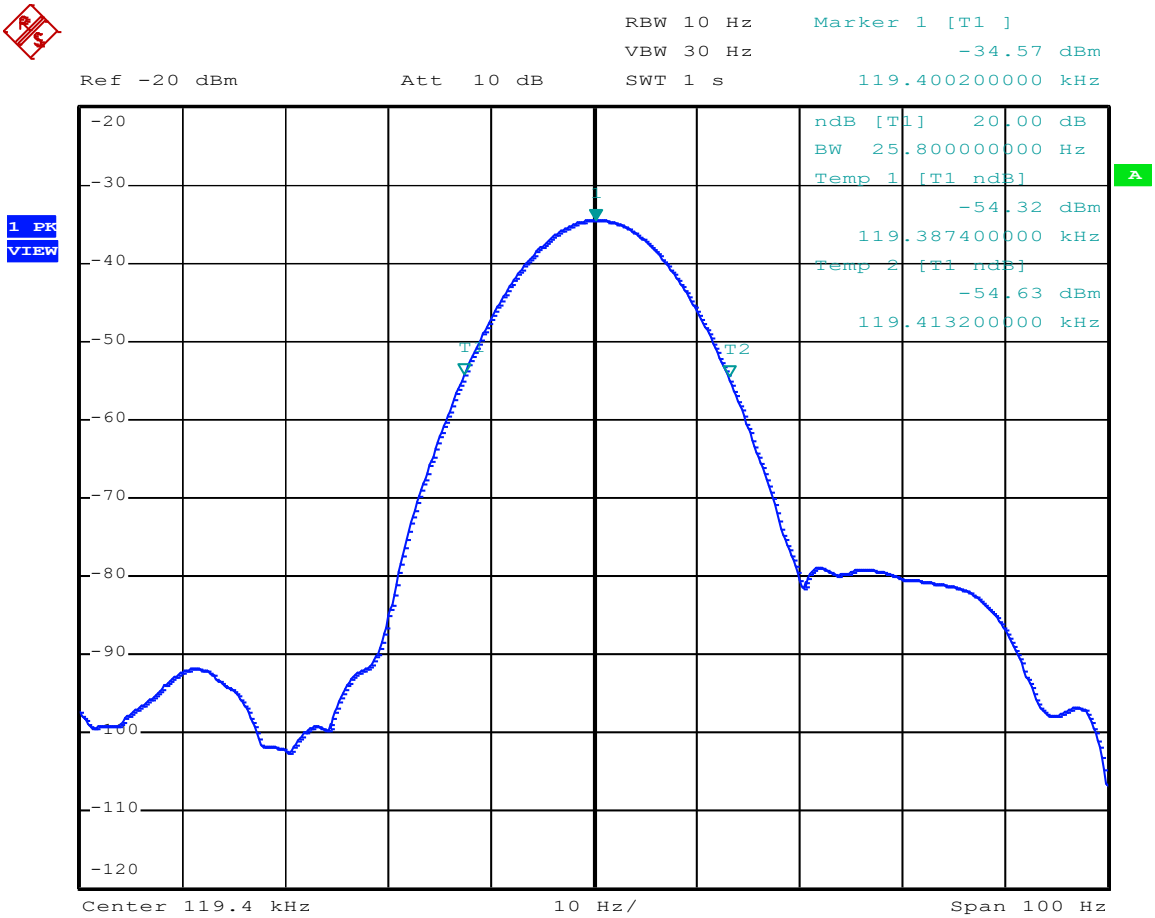
7.1.4 Measurement Procedure and Data

Mode 03:

Test Frequency(kHz)	20dB bandwidth(kHz)	Limit(kHz)	Results
119.4	0.0258	N/A	Pass



Remark: all models of the EUTs have been tested, then found the test result of WLS-A04-09 (Silver) is worse, so record this result in this item.

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7.2 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:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.2.1 E.U.T. Operation

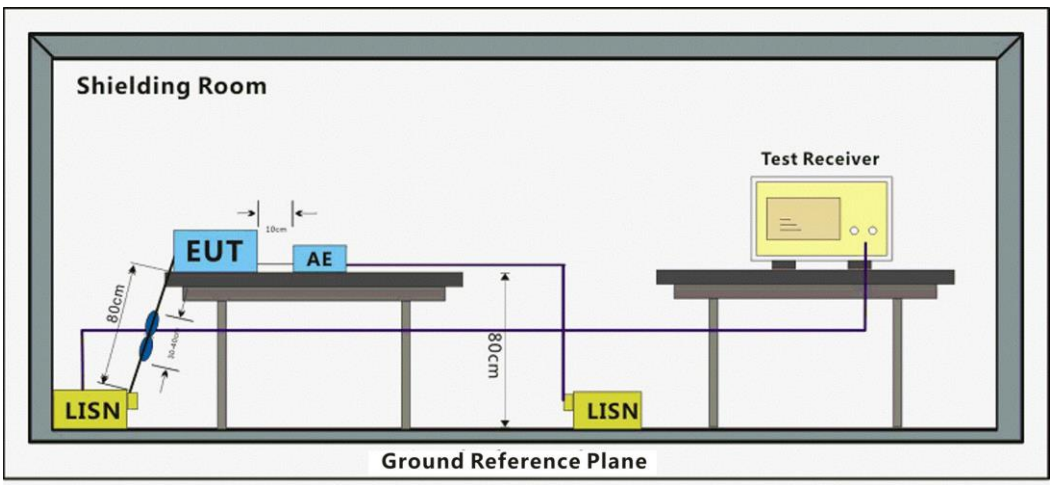
Operating Environment:

Temperature: 23.8 °C Humidity: 54.2 % RH Atmospheric Pressure: 1008 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

7.2.3 Test Setup Diagram



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7.2.4 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/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 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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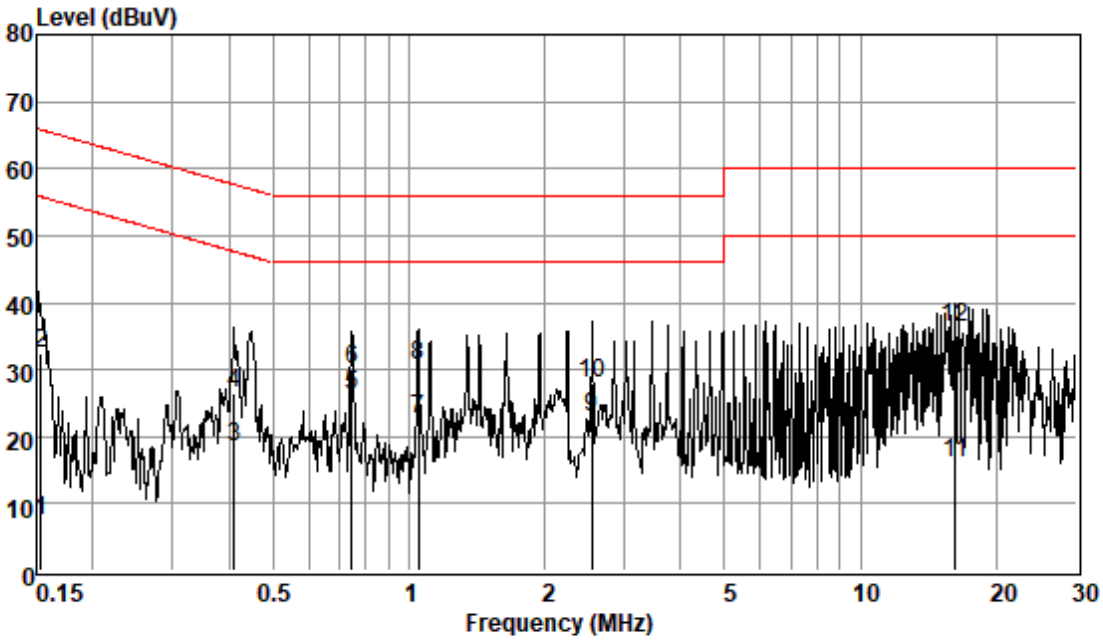
WLS-A04-09 (Silver)

Test Mode: 03; Line: Live line



Pol :LINE
Mode :
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	-2.16	0.06	9.62	7.52	55.82	-48.30	Average
0.15	22.82	0.06	9.62	32.50	65.82	-33.32	QP
0.41	8.61	0.06	9.62	18.29	47.64	-29.35	Average
0.41	16.79	0.06	9.62	26.47	57.64	-31.17	QP
0.75	16.56	0.07	9.63	26.26	46.00	-19.74	Average
0.75	20.30	0.07	9.63	30.00	56.00	-26.00	QP
1.05	13.02	0.07	9.62	22.71	46.00	-23.29	Average
1.05	20.85	0.07	9.62	30.54	56.00	-25.46	QP
2.54	13.17	0.14	9.62	22.93	46.00	-23.07	Average
2.54	18.30	0.14	9.62	28.06	56.00	-27.94	QP
16.23	6.08	0.32	9.75	16.15	50.00	-33.85	Average
16.23	26.32	0.32	9.75	36.39	60.00	-23.61	QP

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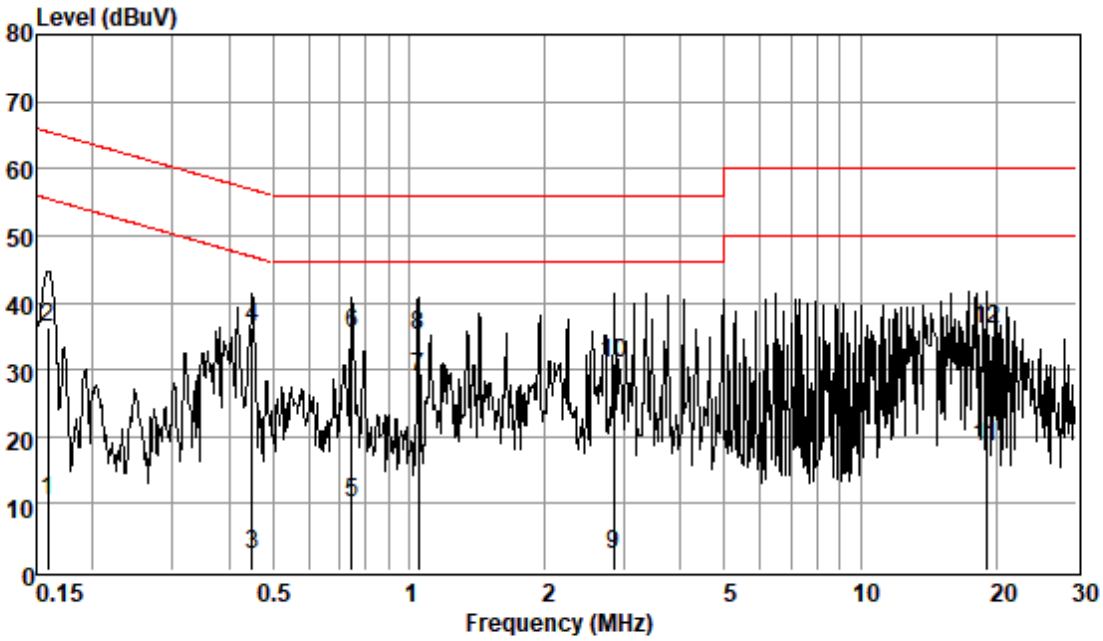
Test Mode: 03; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	0.78	0.06	9.55	10.39	55.52	-45.13	Average
0.16	26.66	0.06	9.55	36.27	65.52	-29.25	QP
0.45	-7.20	0.06	9.55	2.41	46.89	-44.48	Average
0.45	26.72	0.06	9.55	36.33	56.89	-20.56	QP
0.75	0.44	0.07	9.55	10.06	46.00	-35.94	Average
0.75	25.66	0.07	9.55	35.28	56.00	-20.72	QP
1.05	19.29	0.07	9.55	28.91	46.00	-17.09	Average
1.05	25.35	0.07	9.55	34.97	56.00	-21.03	QP
2.84	-7.37	0.14	9.55	2.32	46.00	-43.68	Average
2.84	21.21	0.14	9.55	30.90	56.00	-25.10	QP
18.92	8.41	0.35	9.66	18.42	50.00	-31.58	Average
18.92	26.02	0.35	9.66	36.03	60.00	-23.97	QP

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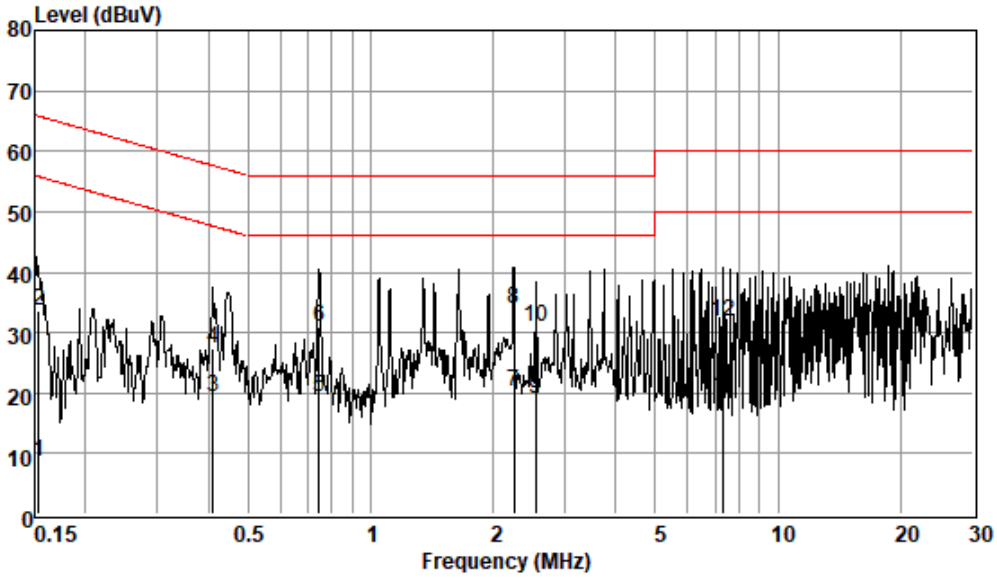
WLS-A04-02 (Black)

Test Mode: 03; Line: Live line



Pol :LINE
Mode :
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	-1.16	0.06	9.62	8.52	55.82	-47.30	Average
0.15	23.82	0.06	9.62	33.50	65.82	-32.32	QP
0.41	9.61	0.06	9.62	19.29	47.64	-28.35	Average
0.41	17.79	0.06	9.62	27.47	57.64	-30.17	QP
0.75	9.56	0.07	9.63	19.26	46.00	-26.74	Average
0.75	21.30	0.07	9.63	31.00	56.00	-25.00	QP
2.25	10.58	0.13	9.62	20.33	46.00	-25.67	Average
2.25	24.08	0.13	9.62	33.83	56.00	-22.17	QP
2.54	9.17	0.14	9.62	18.93	46.00	-27.07	Average
2.54	21.30	0.14	9.62	31.06	56.00	-24.94	QP
7.33	9.41	0.21	9.67	19.29	50.00	-30.71	Average
7.33	21.99	0.21	9.67	31.87	60.00	-28.13	QP

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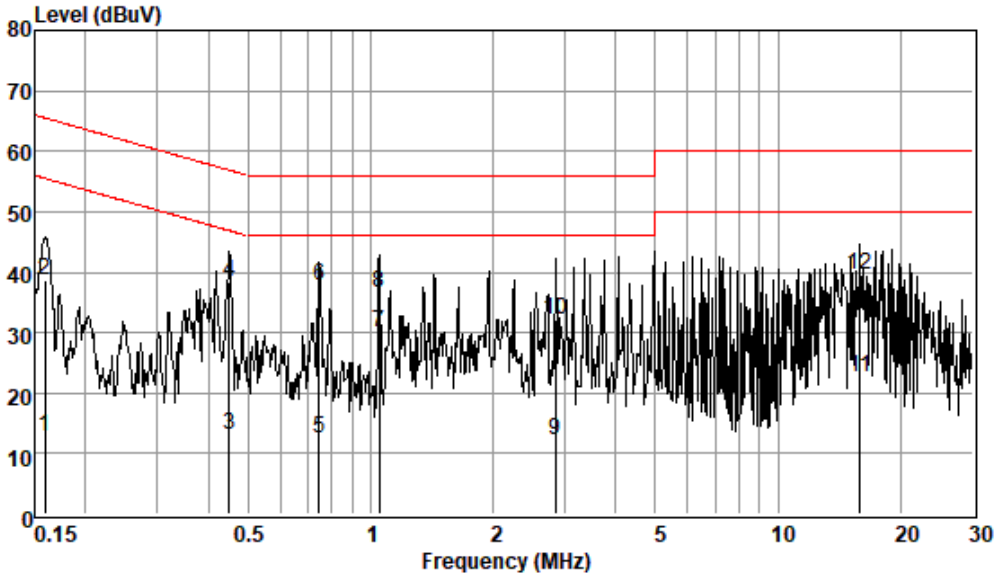
Test Mode: 03; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	3.30	0.06	9.55	12.91	55.52	-42.61	Average
0.16	29.06	0.06	9.55	38.67	65.52	-26.85	QP
0.45	3.49	0.06	9.55	13.10	46.89	-33.79	Average
0.45	28.81	0.06	9.55	38.42	56.89	-18.47	QP
0.75	3.00	0.07	9.55	12.62	46.00	-33.38	Average
0.75	28.20	0.07	9.55	37.82	56.00	-18.18	QP
1.05	20.48	0.07	9.55	30.10	46.00	-15.90	Average
1.05	27.05	0.07	9.55	36.67	56.00	-19.33	QP
2.84	2.46	0.14	9.55	12.15	46.00	-33.85	Average
2.84	22.51	0.14	9.55	32.20	56.00	-23.80	QP
15.89	12.72	0.32	9.65	22.69	50.00	-27.31	Average
15.89	29.50	0.32	9.65	39.47	60.00	-20.53	QP

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7.3 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 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.		

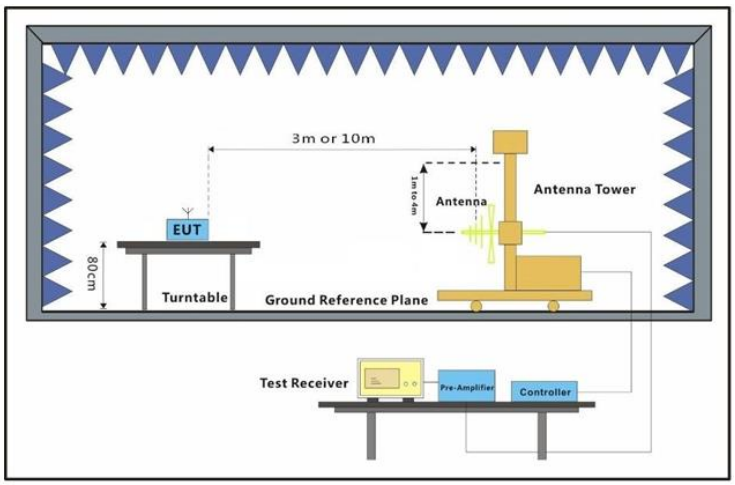
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.4 °C Humidity: 54.3 % RH Atmospheric Pressure: 1008 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground 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 the worst case.

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

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

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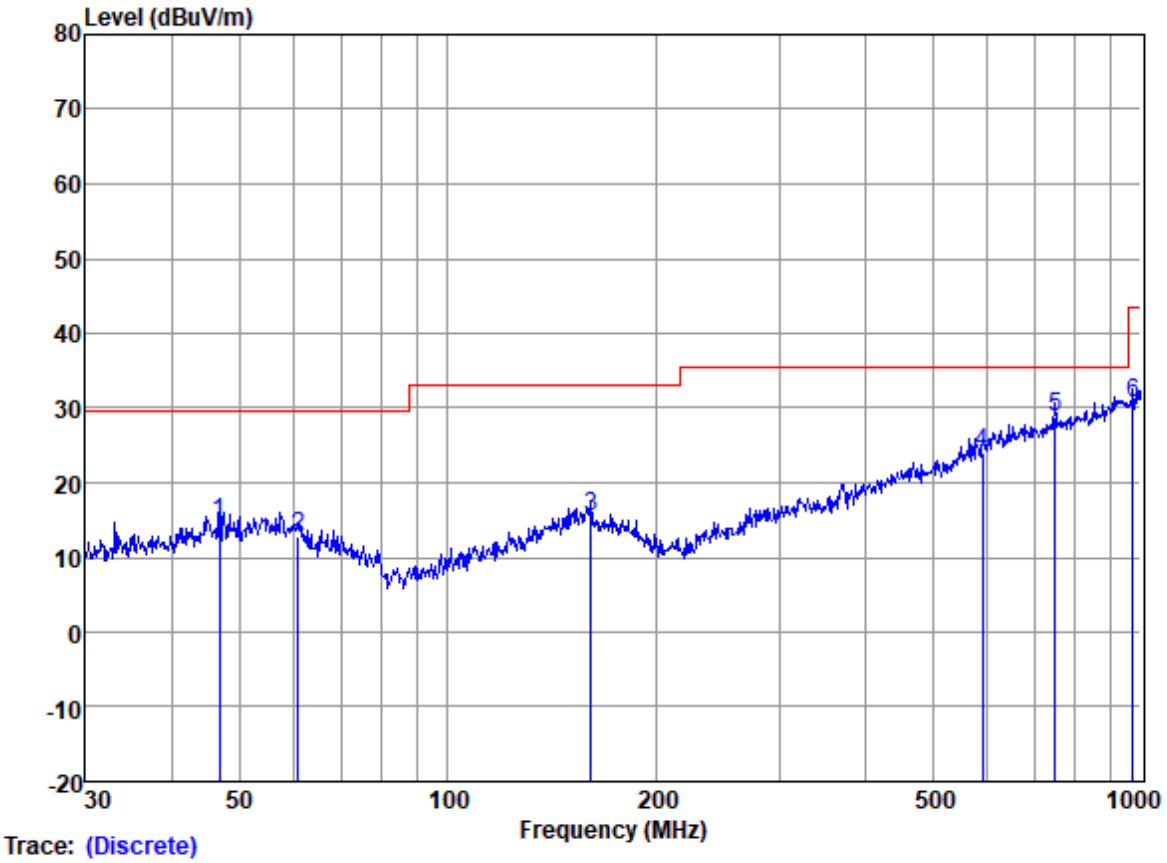
WLS-A04-09 (Silver)

Test Mode: 03; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuA/m	dBuA/m	dBuA		
1	46.83	26.88	13.94	1.13	27.17	14.78	29.50	-14.72	HORIZONTAL	QP
2	60.70	25.33	13.29	1.27	27.16	12.73	29.50	-16.77	HORIZONTAL	QP
3	160.91	26.24	13.60	2.34	26.79	15.39	33.10	-17.71	HORIZONTAL	QP
4	590.97	27.57	19.50	5.10	28.20	23.97	35.60	-11.63	HORIZONTAL	QP
5	750.11	28.70	22.20	5.97	28.10	28.77	35.60	-6.83	HORIZONTAL	QP
6	972.34	27.08	23.97	7.31	27.70	30.66	43.50	-12.84	HORIZONTAL	QP

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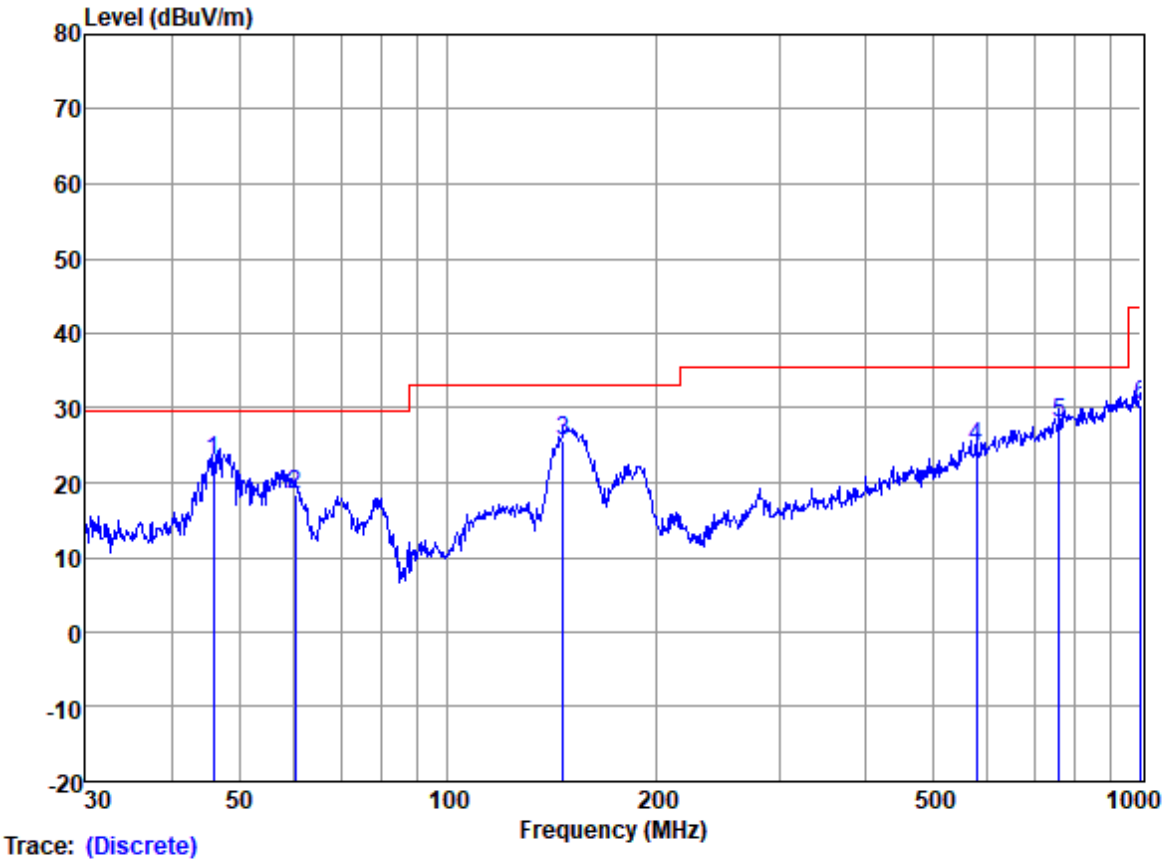
Test Mode: 03; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuA/m	dBuA/m	dBuA		
1	45.86	35.14	13.89	1.13	27.17	22.99	29.50	-6.51	VERTICAL	QP
2	60.28	31.05	13.37	1.26	27.16	18.52	29.50	-10.98	VERTICAL	QP
3	146.37	36.52	13.70	2.20	26.86	25.56	33.10	-7.54	VERTICAL	QP
4	578.67	28.89	19.15	5.02	28.18	24.88	35.60	-10.72	VERTICAL	QP
5	760.70	27.90	22.20	6.01	28.07	28.04	35.60	-7.56	VERTICAL	QP
6(SY	1000.00	26.41	24.30	7.43	27.66	30.48	43.50	-13.02	VERTICAL	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_3: Level @ 3m distance. Unit: uV/m;

L_{10}: Level @ 10m distance. Unit: uV/m;

D_3: 3m distance. Unit: m

D_{10}: 10m distance. Unit: m

The level at 3m test distance is below:

Test Mode: 03

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
46.83	14.78	5.48	18.28	25.24	40.00	-14.76	H
60.07	12.73	4.33	14.43	23.19	40.00	-16.81	H
160.91	15.39	5.88	19.61	25.85	43.50	-17.65	H
590.97	23.97	15.79	52.65	34.43	46.00	-11.57	H
750.11	28.77	27.45	91.49	39.23	46.00	-6.77	H
972.34	30.66	34.12	113.73	41.12	54.00	-12.88	H
45.86	22.99	14.11	47.03	33.45	40.00	-6.55	V
60.28	18.52	8.43	28.11	28.98	40.00	-11.02	V
146.37	25.56	18.97	63.22	36.02	43.50	-7.48	V
578.67	24.88	17.54	58.46	35.34	46.00	-10.66	V
760.77	28.04	25.23	84.12	38.50	46.00	-7.50	V
1000	30.48	33.42	111.40	40.94	54.00	-13.06	V

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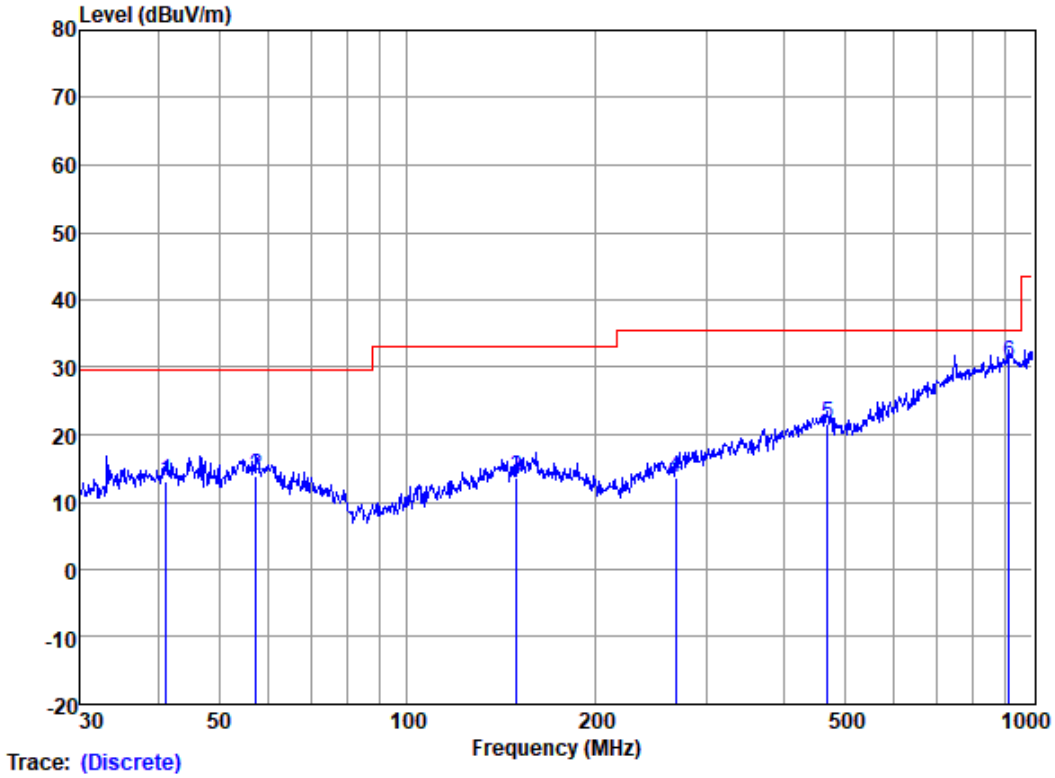
WLS-A04-02 (Black)

Test Mode: 03; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	41.13	25.44	13.62	1.10	27.17	12.99	29.50	-16.51	HORIZONTAL	QP
2	57.19	26.19	13.64	1.22	27.16	13.89	29.50	-15.61	HORIZONTAL	QP
3	149.49	24.38	13.78	2.22	26.84	13.54	33.10	-19.56	HORIZONTAL	QP
4	268.49	24.61	12.60	3.04	26.58	13.67	35.60	-21.93	HORIZONTAL	QP
5	468.88	27.68	17.47	4.29	27.84	21.60	35.60	-14.00	HORIZONTAL	QP
6	916.07	27.86	23.53	6.96	27.82	30.53	35.60	-5.07	HORIZONTAL	QP

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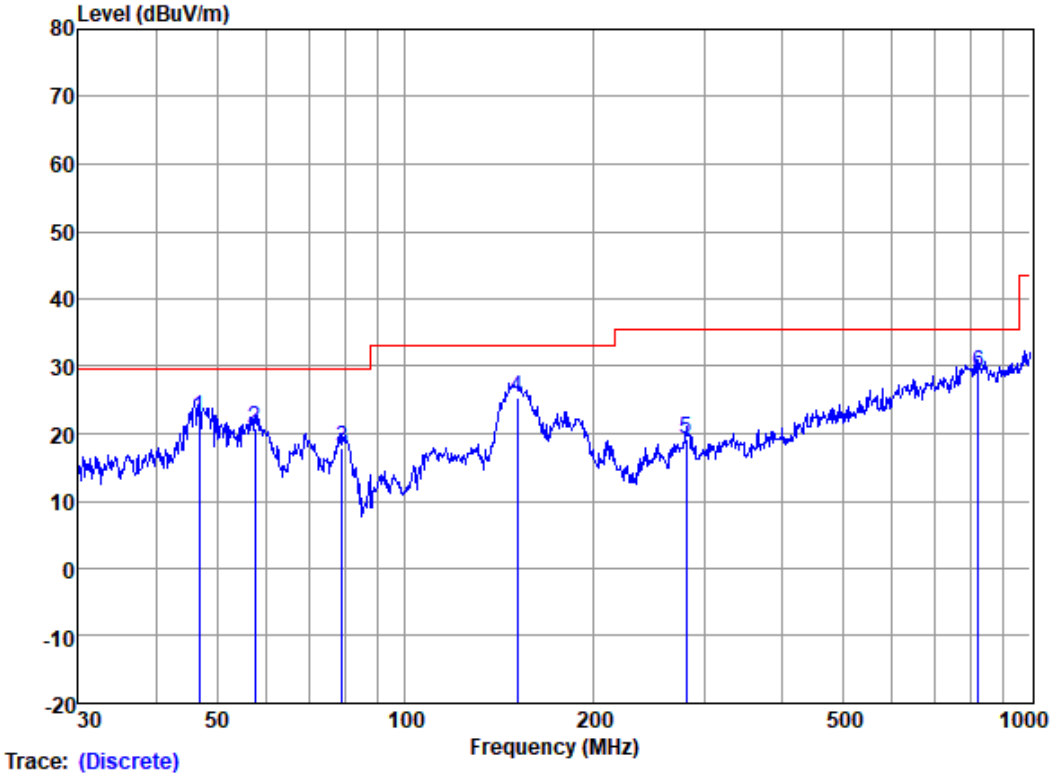
Test Mode: 03; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	46.83	34.55	13.94	1.13	27.17	22.45	29.50	-7.05	VERTICAL	QP
2	57.39	33.01	13.63	1.22	27.16	20.70	29.50	-8.80	VERTICAL	QP
3	79.24	34.45	9.15	1.48	27.10	17.98	29.50	-11.52	VERTICAL	QP
4	151.07	36.03	13.80	2.24	26.83	25.24	33.10	-7.86	VERTICAL	QP
5	281.01	29.38	13.22	3.10	26.56	19.14	35.60	-16.46	VERTICAL	QP
6	824.60	27.91	22.75	6.30	27.99	28.97	35.60	-6.63	VERTICAL	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_3: Level @ 3m distance. Unit: uV/m;

L_{10}: Level @ 10m distance. Unit: uV/m;

D_3: 3m distance. Unit: m

D_{10}: 10m distance. Unit: m

The level at 3m test distance is below:

Test Mode: 03

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
41.13	12.99	4.46	14.87	23.45	40.00	-16.55	H
57.19	13.89	4.95	16.50	24.35	40.00	-15.65	H
149.49	13.54	4.75	15.84	24.00	43.50	-19.50	H
268.49	13.67	4.83	16.08	24.13	46.00	-21.87	H
468.88	21.60	12.02	40.08	32.06	46.00	-13.94	H
916.07	30.53	33.61	112.04	40.99	46.00	-5.01	H
46.83	22.45	13.26	44.20	32.91	40.00	-7.09	V
57.39	20.70	10.84	36.13	31.16	40.00	-8.84	V
79.24	17.98	7.93	26.42	28.44	40.00	-11.56	V
151.07	25.24	18.28	60.94	35.70	43.50	-7.80	V
281.01	19.14	9.06	30.19	29.60	46.00	-16.40	V
824.60	28.97	28.09	93.62	39.43	46.00	-6.57	V

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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 λ/2π and the limit distance is greater than λ/2π, 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 λ/2π distance, and at a 20 dB/decade of distance rate beyond λ/2π. This shall be accomplished using Equation (2):

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

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

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

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

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

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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7.4.1 E.U.T. Operation

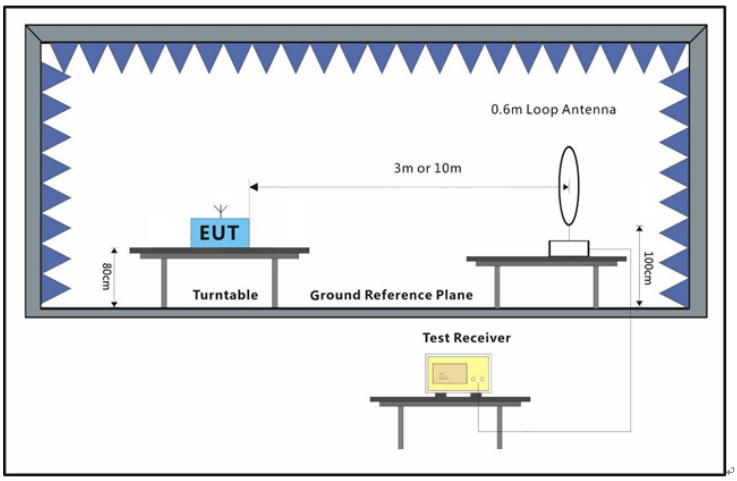
Operating Environment:

Temperature: 23.4 °C Humidity: 54.4 % RH Atmospheric Pressure: 1008 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

7.4.3 Test Setup Diagram



7.4.4 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.

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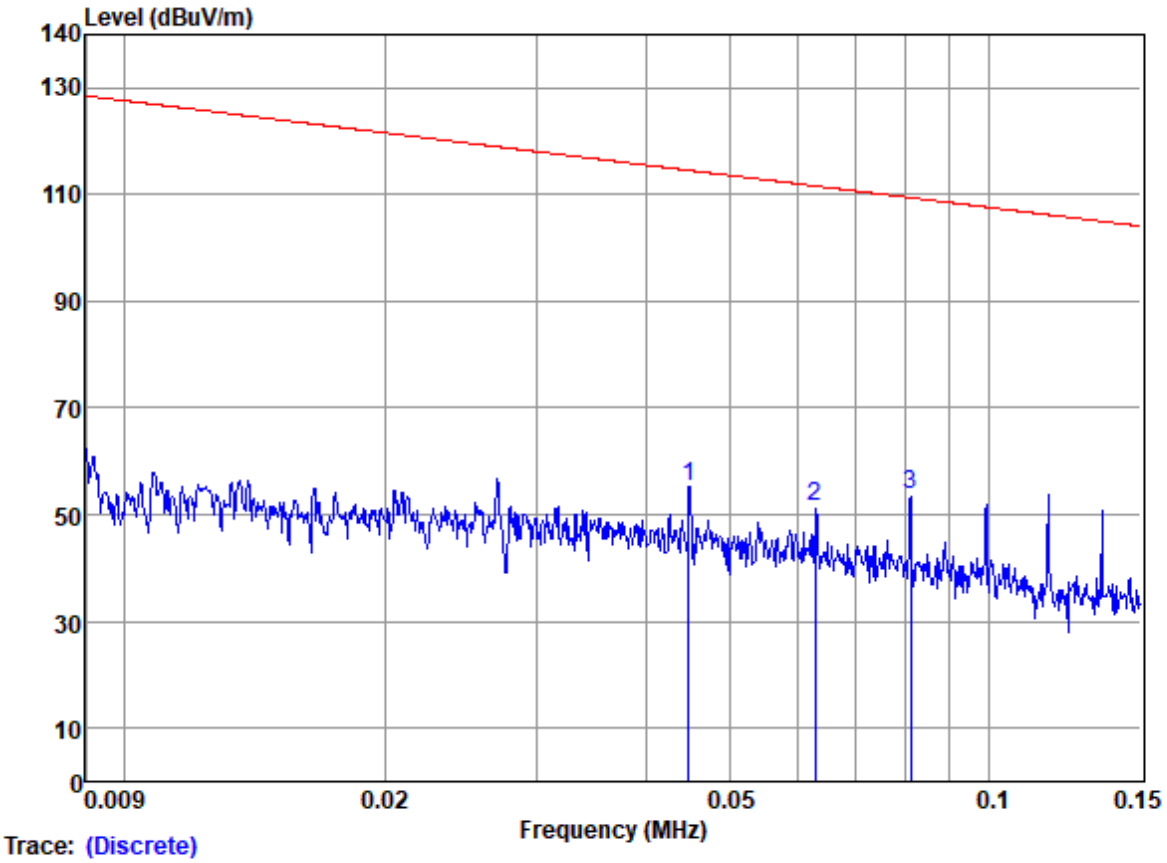
WLS-A04-09 (Silver)

Test Mode: 03;



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuA/m	dBuA/m	dBuA		
1	0.04	72.62	11.96	0.05	29.24	55.39	114.57	-59.18	HORIZONTAL	Average
2	0.06	69.23	11.54	0.05	29.36	51.46	111.63	-60.17	HORIZONTAL	Average
3	0.08	72.45	10.70	0.05	29.43	53.77	109.41	-55.64	HORIZONTAL	Average

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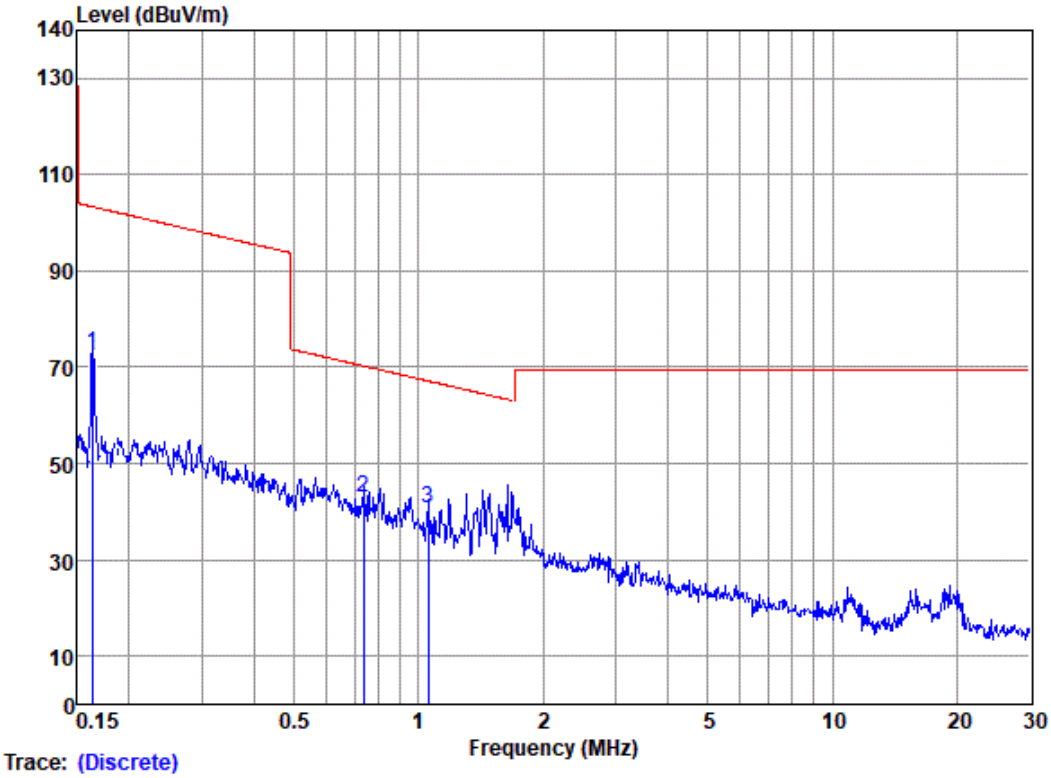
Test Mode: 03;



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuA/m	dBuA/m	dBuA		
1	0.16	97.85	10.78	0.05	29.45	79.23	102.15	-22.92	HORIZONTAL	Average
2	0.74	61.84	10.51	0.12	29.41	43.06	70.28	-27.22	HORIZONTAL	QP
3	1.05	59.68	10.42	0.13	29.41	40.82	67.15	-26.33	HORIZONTAL	QP

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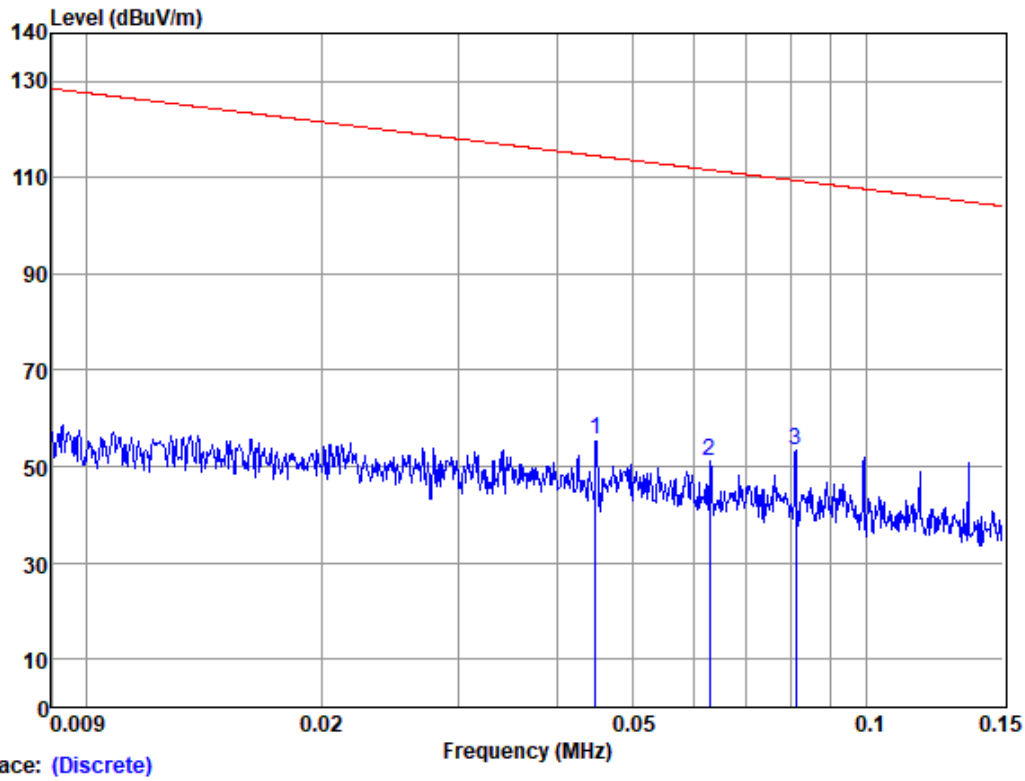
WLS-A04-02 (Black)

Test Mode: 03;



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.04	72.87	11.96	0.05	29.24	55.64	114.57	-58.93	HORIZONTAL	Average
2	0.06	69.02	11.54	0.05	29.36	51.25	111.63	-60.38	HORIZONTAL	Average
3	0.08	72.13	10.70	0.05	29.43	53.45	109.41	-55.96	HORIZONTAL	Average

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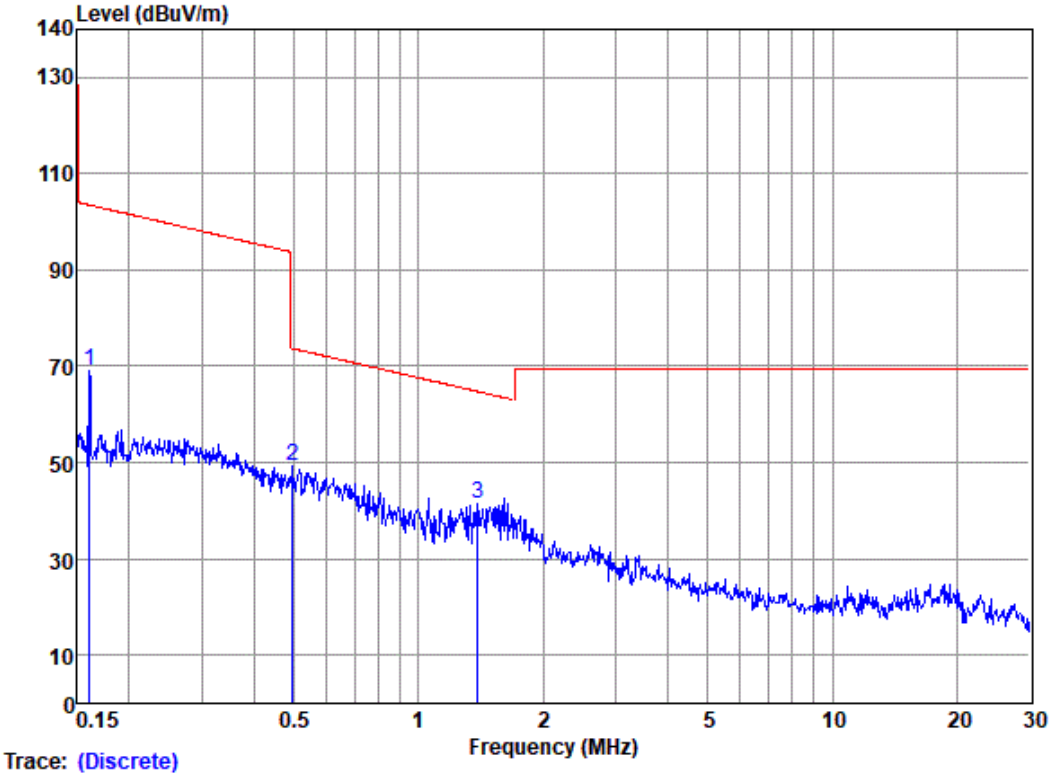
Test Mode: 03;



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.16	87.70	10.71	0.05	29.45	69.01	103.48	-34.47	HORIZONTAL	Average
2	0.50	68.02	10.70	0.08	29.42	49.38	73.68	-24.30	HORIZONTAL	QP
3	1.39	60.16	10.65	0.15	29.40	41.56	64.75	-23.19	HORIZONTAL	QP

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7.5 Restricted band

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

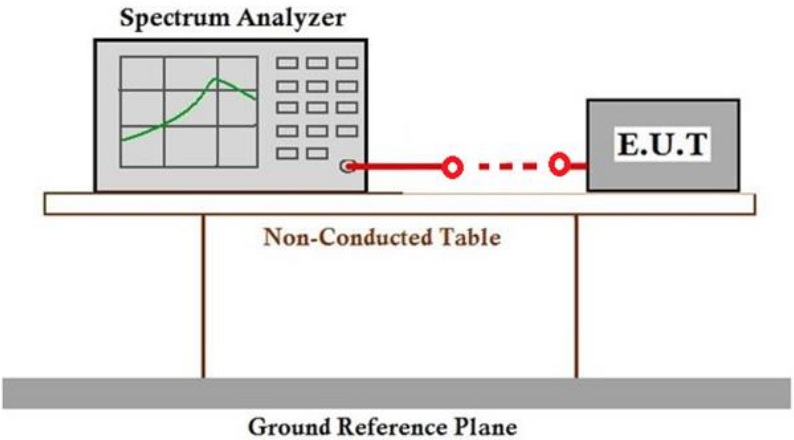
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 23.7 °C Humidity: 54.3 % RH Atmospheric Pressure: 1008 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

7.5.3 Test Setup Diagram



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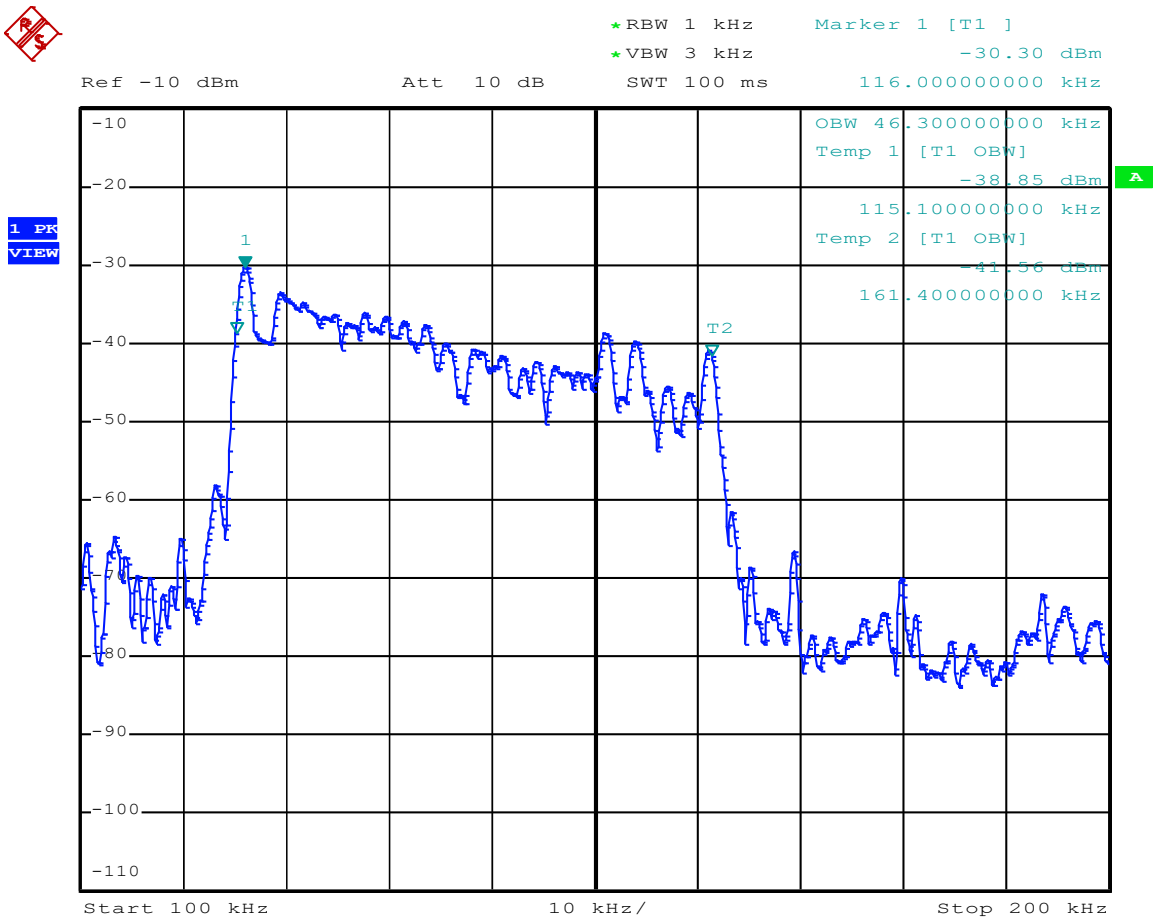
7.5.4 Measurement Procedure and Data



Remark: all models of the EUTs have been tested, then found the test result of WLS-A04-09 (Silver) is worse, so record this result in this item.

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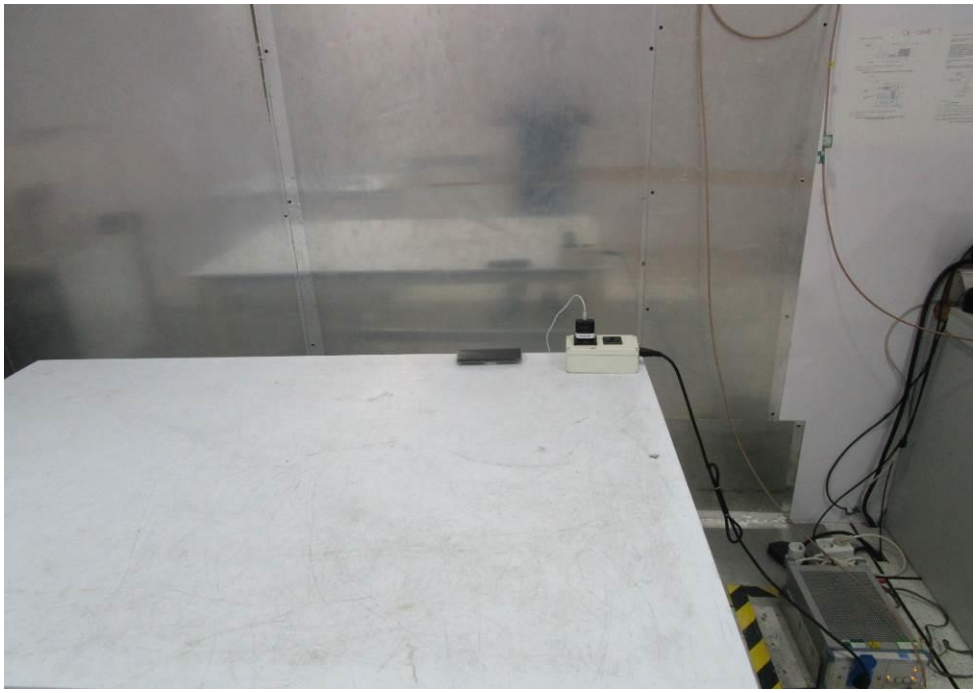
8 Test Setup Photo

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



Radiated Emissions (30MHz-1GHz)

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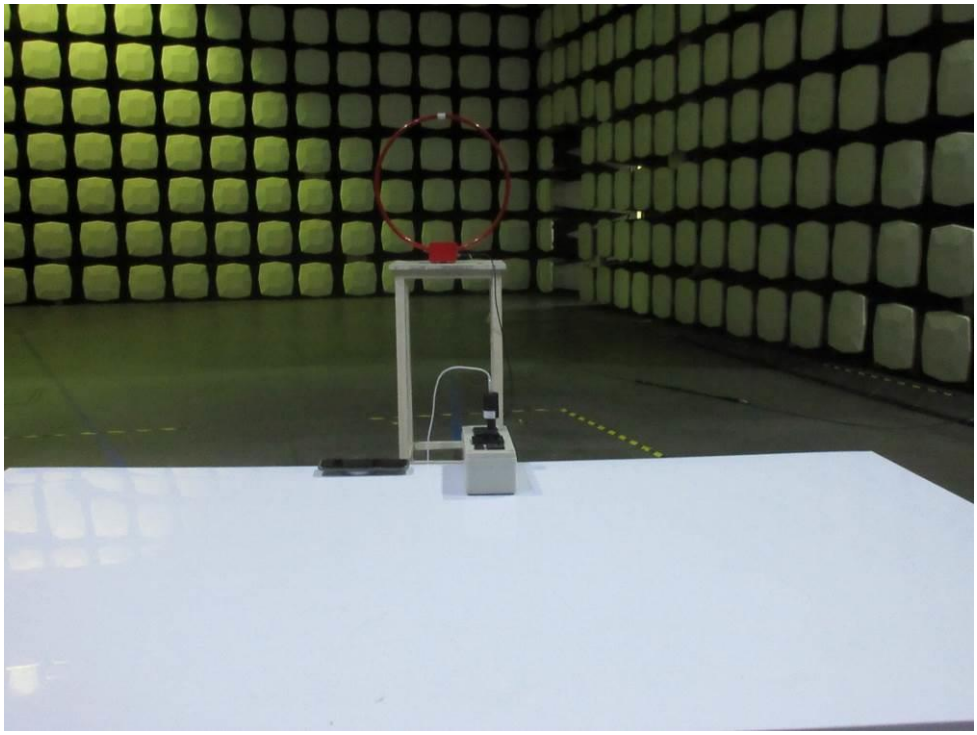
Radiated Emissions (9kHz-30MHz)



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2109021029AT

- End of the Report -

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