

Report No.: GZCR210902112002

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## TEST REPORT

**Application No.:** GZCR2109021120AT **Applicant:** The House of Marley. LLC

Address of Applicant: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States

Manufacturer: The House of Marley. LLC

Address of Manufacturer: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States

**Factory:** 1.Dongguan Kailai Electronic Co., Ltd.

2. YING TONG (VIETNAM) ELECTRONIC TECHNOLOGY COMPANY

LIMITED

Address of Factory: 1.Building 2, No.6, Baisha Road, Changping, Dongguan City, Guangdong

Province, China

2. Plot No. CN02-1-2, Lot No. CN02, Binh Xuyen II Industrial Park, Ba Hien

Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam

**Equipment Under Test (EUT):** 

**EUT Name:** REDEMPTION ANC2

Model No.: EM-DE031 Trade Mark: MARLEY

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

**Date of Receipt:** 2021-09-22

**Date of Test:** 2021-09-27 to 2021-10-29

**Date of Issue:** 2021-11-04

Test Result: Pass\*

Kobe Jian EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version Chapter Date Modifier Remark						
01	01 2021-11-04			Original		

Authorized for issue by		
	Tackson Juan	
	Jackson Yuan/Project Engineer	
	Riday Liu	
	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		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)	47 CFR Part 15, Subpart C	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.



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below for normal working of charger

Model: NV 901638

Rated: DC 3.7 V, 1.924Wh 520mAh DC 5 V for charging of charger

Cable(s): DC output ports

Type C changing ports with unshielded cables (0.4 m)

Operation Frequency: 113.8334 to 145.9804 kHz

Modulation Type: Load modulation
Antenna Type: Loop antenna

Firmware Version: SV01

Hardware Version: EPA262-VCHG-V7

Testing Software: N/A

Sample NO.: GZ\_SP\_20210954424

Power Setting: Default

Function: REDEMPTION ANC2 with WPC function

## 4.2 Description of Support Units

D:			0 1 1 1								
Description	Model No.		Manufacturer Model No.		Manufacturer   Model No.		Manufacturer Model No.		Manufacturer Model No.		Serial No.
		YW-2440									
AC/DC Adapter	dapter YUEWEI (Input: AC100-23		CE02								
		Output: DC5V, Max. 4A)									
Wireless Charging Pad	SAMSUNG	EP-1100	RF7M506VG3ZCIS								

## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty				
20dB Bandwidth	± 3%				
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 2.76dB				
Dedicted Emissions (20MLL 10LL)	± 5.00dB (3m)				
Radiated Emissions (30MHz-1GHz)	± 4.38dB (10m)				
Radiated Emissions (9kHz-30MHz)	± 3.12dB				
Restricted band	± 3%				



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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

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)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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### 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions



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## 5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	M8.0	EMC2136	2021-11-02	2023-11-01

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	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	ESR3	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
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	JS Tonscend	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01

General used equipme	nt				
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 uses a 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.

Antenna location: Please refer to internal photos.



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## Radio Spectrum Matter Test Results

### 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:

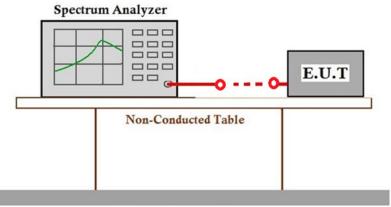
Temperature: 24.3 °C Humidity: 52.0 % RH Atmospheric Pressure: 1018 mbar

## 7.1.2 Test Mode Description

Mode Pre-scan / **Description** Final test Code

Final test 06 Charging mode\_Keep the EUT being charged at zero charge

### 7.1.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.1.4 Measurement Procedure and Data

Changing will take place when the charger is in contact with EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged

Remark: The setting of RBW was the minimum for the spectrum.

Test Frequency	20 dB Bandwidth (kHz)	Limit (kHz)	Results
131.390kHz which is the worst case within the operation frequency range	0.280		Pass



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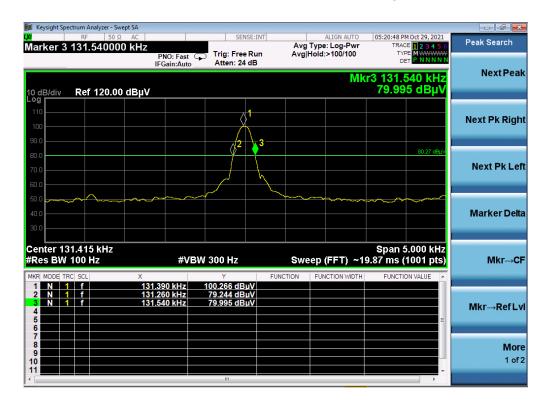
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## 7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

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

Limit:

Francisco of amicaia (MALIE)	Conducted limit(dBµV)					
Frequency of emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
*Decreases with the logarithm of the frequency.						
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz						

## 7.2.1 E.U.T. Operation

Operating Environment:

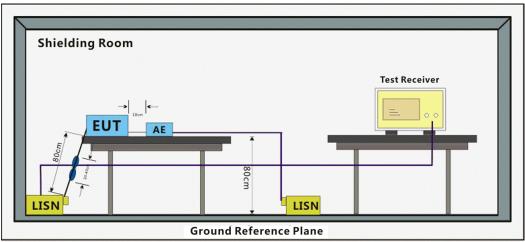
Temperature: 23.7 °C Humidity: 65.0 % RH Atmospheric Pressure: 1008 mbar

### 7.2.2 Test Mode Description

Pre-scan / Mode Final test Code Description

Final test 06 Charging mode Keep the EUT being charged at zero charge

## 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  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  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: Level=Read Level+ Cable Loss+ LISN Factor

Changing will take place when the charger is in contact with EUT only, no space is reserved/designed for air because the structure of the EUT will automatically fix the device being charged closely.

The red line show in graphic is the limit in standard used in this section.

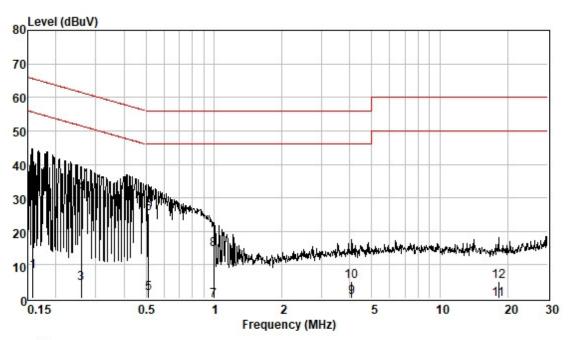




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Test Mode: 06; Line: Live line



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
0.16	-1.67	0.06	9.62	8.01	55.56	-47.55	Average
0.16	26.28	0.06	9.62	35.96	65.56	-29.60	QP
0.26	-5.20	0.06	9.62	4.48	51.47	-46.99	Average
0.26	21.48	0.06	9.62	31.16	61.47	-30.31	QP
0.51	-8.16	0.07	9.63	1.54	46.00	-44.46	Average
0.51	15.66	0.07	9.63	25.36	56.00	-30.64	QP
1.00	-10.27	0.07	9.62	-0.58	46.00	-46.58	Average
1.00	4.76	0.07	9.62	14.45	56.00	-41.55	QP
4.07	-9.39	0.17	9.62	0.40	46.00	-45.60	Average
4.07	-4.62	0.17	9.62	5.17	56.00	-50.83	QP
18.23	-10.50	0.35	9.75	-0.40	50.00	-50.40	Average
18.23	-5.01	0.35	9.75	5.09	60.00	-54.91	OP



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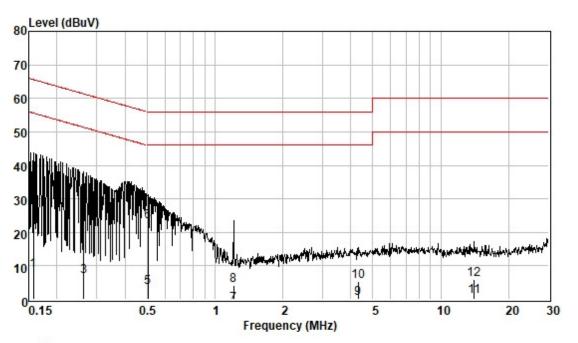
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Test Mode: 06; Line: Neutral Line



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	-0.96	0.06	9.55	8.65	55.60	-46.95	Average
0.16	24.92	0.06	9.55	34.53	65.60	-31.07	QP
0.26	-2.71	0.06	9.55	6.90	51.34	-44.44	Average
0.26	20.26	0.06	9.55	29.87	61.34	-31.47	QP
0.50	-6.17	0.07	9.55	3.45	46.00	-42.55	Average
0.50	13.51	0.07	9.55	23.13	56.00	-32.87	QP
1.21	-10.98	0.08	9.55	-1.35	46.00	-47.35	Average
1.21	-5.41	0.08	9.55	4.22	56.00	-51.78	QP
4.31	-9.36	0.17	9.56	0.37	46.00	-45.63	Average
4.31	-4.28	0.17	9.56	5.45	56.00	-50.55	QP
14.06	-9.05	0.30	9.63	0.88	50.00	-49.12	Average
14.06	-3.89	0.30	9.63	6.04	60.00	-53.96	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

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

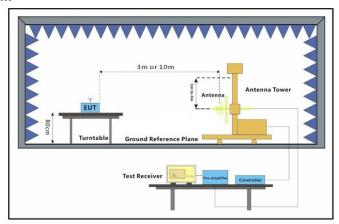
Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % RH Atmospheric Pressure: 1008 mbar

## 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	Charging mode_Keep the EUT being charged at zero charge
Pre-scan	07	Charging mode_Keep the EUT being charged at intermediate charge
Pre-scan	08	Charging mode_Keep the EUT being charged at full charge
Final test	06	Charging mode_Keep the EUT being charged at zero charge
Remark:		Changing will take place when the charger is in contact with EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged closely.
		Final test was performed to the worse case found in pre-scan.

### 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 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 the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

Changing will take place when the charger is in contact with a EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged closely.

The red line show in graphic is the limit in standard used in this section.

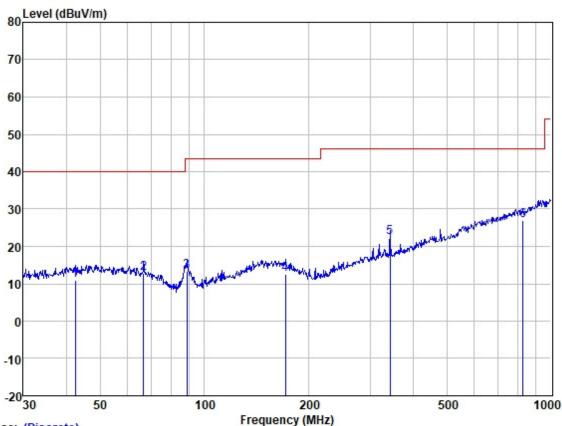




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Test Mode: 06; Polarity: Horizontal



Trace: (Discrete)

Site : SGS Job Model Power Test Mode

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		-
1	42.45	23.26	13.72	1.11	27.17	10.92	40.00	-29.08	HORIZONTAL	QP
2	66.73	26.17	12.46	1.37	27.14	12.86	40.00	-27.14	HORIZONTAL	QP
3	88.96	30.94	7.75	1.61	27.09	13.21	43.50	-30.29	HORIZONTAL	QP
4	171.39	23.76	13.03	2.40	26.77	12.42	43.50	-31.08	HORIZONTAL	QP
5	343.18	31.13	14.50	3.55	26.89	22.29	46.00	-23.71	HORIZONTAL	QP
6	830.40	25.82	22.70	6.38	27.99	26.91	46.00	-19.09	HORIZONTAL	QP



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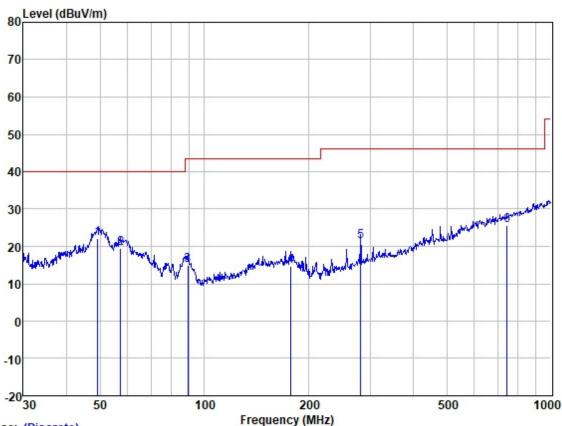
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Test Mode: 06; Polarity: Vertical



Trace: (Discrete)

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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV	-	-
1	49.19	34.15	13.94	1.14	27.17	22.06	40.00	-17.94	VERTICAL	QP
2	57.19	31.76	13.64	1.22	27.16	19.46	40.00	-20.54	VERTICAL	QP
3	89.59	32.54	7.78	1.61	27.09	14.84	43.50	-28.66	VERTICAL	QP
4	177.51	26.79	12.30	2.43	26.76	14.76	43.50	-28.74	VERTICAL	QP
5	281.99	31.55	13.23	3.10	26.56	21.32	46.00	-24.68	VERTICAL	QP
6	747.48	25.58	22.15	5.97	28.10	25.60	46.00	-20.40	VERTICAL	QP



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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

Test Distance: 3 m

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):

$$FS_{(3m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(3m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(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):

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

$$FS_{(3m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(3m)}\}$$
(4)

Remark:

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

where f<sub>MHz</sub> is the frequency of the emission being measured in MHz.



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## 7.4.1 E.U.T. Operation

Operating Environment:

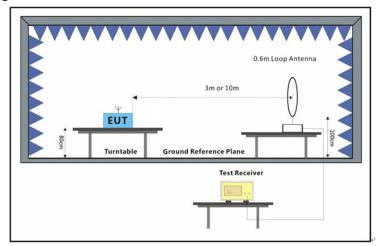
Temperature: 24.0 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

### 7.4.2 Test Mode Description

Pre-scan / Mode Final test Code	Description
Pre-scan 06	Charging mode_Keep the EUT being charged at zero charge
Pre-scan 07	Charging mode_Keep the EUT being charged at intermediate charge
Pre-scan 08	Charging mode_Keep the EUT being charged at full charge
Final test 06	Charging mode_Keep the EUT being charged at zero charge
Remark:	Changing will take place when the charger is in contact with EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged closely.
	Final test was performed to the warse ages found in the seen

Final test was performed to the worse case found in pre-scan.

## 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.

Changing will take place when the charger is in contact with EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged closely.



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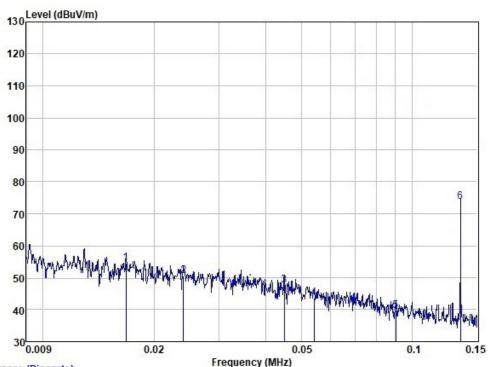
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Test Mode: 06; Polarity: Horizontal



Trace: (Discrete)

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

	Freq					Measured Level		Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	-	-
1	0.02	70.89	12.75	0.05	28.62	55.07	HORIZONTAL	QP
2	0.02	69.42	11.96	0.05	29.24	52.19	HORIZONTAL	QP
3	0.04	66.86	11.54	0.05	29.36	49.09	HORIZONTAL	QP
4	0.05	63.60	10.07	0.05	29.43	44.92	HORIZONTAL	QP
5	0.09	60.06	10.41	0.05	29.47	41.05	HORIZONTAL	QP
6	0.14	94.03	10.54	0.05	29.46	75.61	HORIZONTAL	QP

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.02	55.07	-	41.58	80	-	-24.93	-66.51
0.02	52.19	-	41.58	80	-	-27.81	-69.39
0.04	49.09	-	35.56	80	-	-30.91	-66.47
0.05	44.92	-	33.62	80	-	-35.08	-68.70
0.09	41.05	-	28.52	80	-	-38.95	-67.47
0.14	75.61	-	24.68	80	-	-4.39	-29.07



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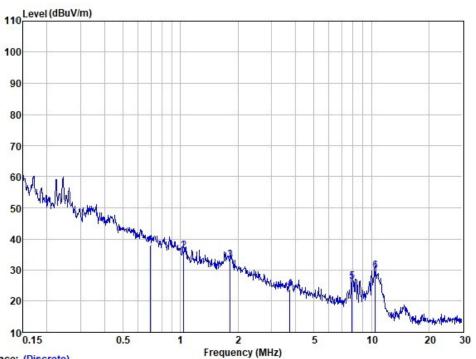
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Test Mode: 06; Polarity: Horizontal



Trace: (Discrete)

: SGS Site Job Model Power Test Mode

	Freq					Measured Level		Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	-	
1	0.70	58.27	10.57	0.11	29.42	39.53	HORIZONTAL	QP
2	1.04	56.54	10.42	0.13	29.41	37.68	HORIZONTAL	QP
3	1.82	52.94	10.95	0.19	29.38	34.70	HORIZONTAL	QP
4	3.74	43.70	10.60	0.33	29.34	25.29	HORIZONTAL	QP
5	7.94	46.30	10.20	0.48	29.30	27.68	HORIZONTAL	QP
6	10.45	50.05	10.01	0.53	29.29	31.30	HORIZONTAL	QP

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.7	39.53	30.70	-	40	-0.47	-	-31.17
1.04	37.68	27.26	-	40	-2.32	-	-29.58
1.82	34.7	29.54	-	40	-5.3	-	-34.84
3.74	25.29	29.54	-	40	-14.71	-	-44.25
7.94	27.68	29.54	-	40	-12.32	-	-41.86
10.45	31.3	29.54	-	40	-8.7	-	-38.24



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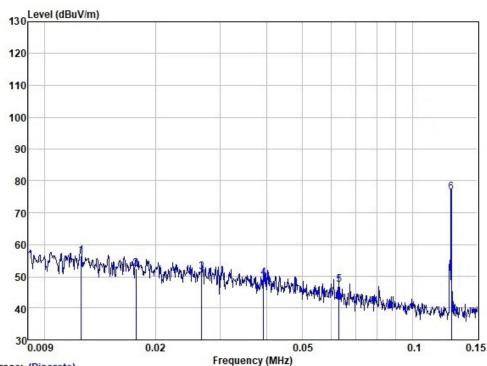
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Test Mode: 07; Polarity: Vertical



Trace: (Discrete)

Site : SGS Job Model Power Test Mode

	Freq		Anterna Factor			Measured Level	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m		
1	0.01	73.88	12.76	0.05	28.61	58.08	VERTICAL	QP
2	0.02	71.19	11.96	0.05	29.24	53.96	VERTICAL	QP
3	0.03	70.49	11.54	0.05	29.36	52.72	VERTICAL	QP
4	0.04	69.44	10.70	0.05	29.43	50.76	VERTICAL	QP
5	0.06	67.59	10.41	0.05	29.47	48.58	VERTICAL	QP
6	0.13	96.73	10.50	0.05	29.46	77.82	VERTICAL	QP

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.01	58.08	-	47.60	80	-	-21.92	-69.52
0.02	53.96	-	41.58	80	-	-26.04	-67.62
0.03	52.72	-	38.06	80	-	-27.28	-65.34
0.04	50.76	-	35.56	80	-	-29.24	-64.80
0.06	48.58	-	32.04	80	-	-31.42	-63.46
0.13	77.82	-	25.33	80	-	-2.18	-27.51



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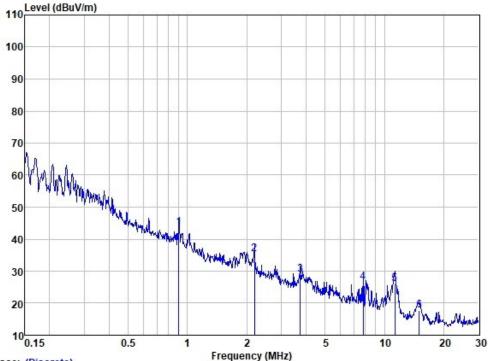
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Test Mode: 07; Polarity: Vertical



Trace: (Discrete)

Site : SGS Job Mode1 Power Test Mode

	Freq					Measured Level	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	<del></del>	S <del></del> S
1	0.90	63.92	10.43	0.13	29.41	45.07	VERTICAL	QP
2	2.19	54.89	10.98	0.23	29.38	36.72	VERTICAL	QP
3	3.74	48.92	10.60	0.33	29.34	30.51	VERTICAL	QP
4	7.81	46.76	10.21	0.47	29.30	28.14	VERTICAL	QP
5	11.32	46.34	9.79	0.54	29.28	27.39	VERTICAL	QP
6	14.99	39.23	8.72	0.60	29.24	19.31	VERTICAL	OP

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.9	45.07	28.52	-	40	5.07	-	-23.45
2.19	36.72	29.54	-	40	-3.28	-	-32.82
3.74	30.51	29.54	-	40	-9.49	-	-39.03
7.81	28.14	29.54	-	40	-11.86	-	-41.40
11.32	27.39	29.54	-	40	-12.61	-	-42.15
14.99	19.31	29.54	-	40	-20.69	-	-50.23



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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:

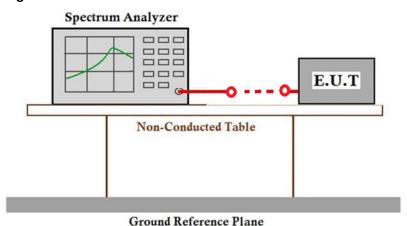
24.3 °C Temperature: Humidity: 52.0 % RH Atmospheric Pressure: 1018 mbar

## 7.5.2 Test Mode Description

Mode Pre-scan / **Description** Final test Code

Final test 06 Charging mode Keep the EUT being charged

## 7.5.3 Test Setup Diagram





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#### 7.5.4 Measurement Procedure and Data

Changing will take place when the charger is in contact with EUT only, no space is reserved/designed for air because the structure of the EUT will automatically fix the device being charged closely.

According the test data below, the fundamental wave is not fall in the restricted band 90k~110kHz, the field strength also meet the 15.209 requirement, please refer to clause 7.4.





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

Refer to Test Setup Photo for GZCR210902112002.



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

Refer to External and Internal Photos for GZCR2109021120AT

- End of the Report -



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