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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: GLEMO08120368001-2

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FCCID: WYNWINCHANCE-108

# TEST REPORT

Application No.:	GLEMO08120368001-2							
Applicant:	Winchance Solar (Fujian) Technology Co.,Ltd							
Address of Applicant:	Jiangnan New High-tech Electronic Information Industrial Park, Quanzhou, Fujian, China							
Equipment under Test (E	EUT)							
Name:	Solar Outdoor Wireless Speaker							
Model No.:	MU108, 881011-XX, 881011-XXTS(XX=00-99 for color code) *							
FCC ID:	WYNWINCHANCE-108							
Function:	Wireless audio transmitter							
*	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.							
Standards:	FCC PART 15:2008, SUBPART C							
Date of test:	23 July to 31 July 2009							
Date of Issue:	21 August 2009							
Test Result :	PASS *							

In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 3 of this report for further details.

Authorized Signature:

Stephen Guo Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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. All test results in this report can be traceable to National or International Standards.

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### 2 Version

Version No.	Date	Description
01	21 August 2009	Original

Prepared By:	Celia Xiang	Date	2009-08-21	
	Project Engineer			
Check By:	Gavin Wu	Date	2009-08-21	
	Reviewer			



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# 3 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Field Strength of Fundamental	FCC PART 15 : 2008	Section 15.249 (a)	PASS
Field Strength of	FCC PART 15 : 2008	Section 15.249 (a)	PASS
Unwanted Emissions	FGG FANT 15 . 2006	Section 15.249 (d)	FASS
Occupied Bandwidth	FCC PART 15 : 2008	Section 15.215(c)	PASS
Band Edges	FCC PART 15 : 2008	Section 15.249 (d)	PASS
Conducted Emission	FCC PART 15 : 2008	Section 207	PASS

#### Remark:

Tx: In this whole report Tx (or tx) means Transmitter.

RF: In this whole report RF means Radiated Frequency.

♣Item No.: MU108, 881011-XX, 881011-XXTS(XX=00-99 for color code)

According to the declaration of the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model number and appearance.

Therefore only one model MU108 was tested in this report



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## 5 General Information

### 5.1 Client Information

Applicant's Name: Winchance Solar (Fujian) Technology Co.,Ltd

Applicant Address: Jiangnan New High-tech Electronic Information Industrial Park, Quanzhou,

Fujian, China

Manufacturer's Name: Quanzhou Winchance Technology Electronic Co., Ltd

Manufacturer's Jiangnan New High-tech Electronic Information Industrial Park, Quanzhou,

Address: Fujian, China

Factory's Name: Quanzhou Winchance Technology Electronic Co., Ltd

Factory's Address: Jiangnan New High-tech Electronic Information Industrial Park, Quanzhou,

Fujian, China

### 5.2 General Description of E.U.T.

Product Name: Solar Outdoor Wireless Speaker

Model: MU108, 881011-XX, 881011-XXTS(XX=00-99 for color code)

Power Supply: AC:100-240V 50Hz/60Hz 0.5A

DC 3V (1X"CR2025" button cell) for remote controller

Adaptor: Model: BI07-050140-AdU

Input: AC 100-240V 50/60Hz 0.5A

Output: DC 5V 1.4A;

Power Cord: 2 x 1.8m unscreened cable

### 5.3 Description of EUT operation

Type of Modulation FSK

Channel Frequency 925.8MHz, 926.6MHz, 927.4MHz

Antenna Type Integrate Antenna

### 5.4 Standards Applicable for Testing

The standard used was FCC PART 15, SUBPART C (2008) section 15.249.

### 5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou 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.



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### 5.6 Other Information Requested by the Customer

None.

### 5.7 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 recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorized test laboratory for the DoC process.



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# 6 Equipments Used during Test

	RE in Chamber					
No:	Test Equipment	Manufacturer Model No.		Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
EMC0525	Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	N/A	N/A
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	28-01-2009	28-01-2010
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	10036	14-07-2009	14-07-2010
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A N/A		04-12-2008	04-12-2009
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	08-10-2008	08-10-2009
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	08-10-2008	08-10-2009
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	09-09-2008	09-09-2009
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2008	05-12-2009
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A06252	11-03-2009	11-03-2010
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	11-03-2009	11-03-2010
EMC0075	310N Amplifier	Sonama	310N	272683	10-09-2008	10-09-2009
EMC0523	Active Loop Antenna	EMCO	6502	00042963	08-10-2009	08-10-2010
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	02-06-2009	02-06-2010

	Conducted Emission										
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)					
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m <sup>3</sup>	N/A	N/A	N/A					
EMC0102	LISN	Schaffner Chase	MNZ050D/1	1421	14-12-2008	14-12-2009					
EMC0118	Two-line v-netwok	Rohde & Schwarz	ENV216	3560.6550.02	18-07-2009	18-07-2010					
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	14-12-2008	14-12-2009					
EMC0107	Coaxial Cable	SGS	2m	N/A	26-11-2008	26-11-2009					
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A	N/A					
EMC0120	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	20550	21-02-2009	21-02-2010					
EMC0121	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	20549	21-02-2009	21-02-2010					
EMC0122	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	20548	21-02-2009	21-02-2010					

	General used equipment									
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)				
EMC0006	DMM	Fluke	73	70681569	23-12-2008	23-12-2009				
EMC0007	DMM	Fluke	73	70671122	23-12-2008	23-12-2009				



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### 7 Test Result

### 7.1 E.U.T. Operation

Input voltage: 120Vac 60Hz

Operating Environment:

Temperature: 26°C
Humidity: 56% RH
Atmospheric Pressure: 1005mbar

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or

receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band

specified in the following table:

which device operates frequencies of operation

1 MHz or less 1 Middle

1 to 10 MHz 2 1 near top and 1 near bottom

More than 10 MHz 3 1 near top, 1 near middle and 1 near bottom

The program used to control the EUT for staying in continuous transmitting mode supplied by manufacturer .

Channel lowest (925.8MHz) and highest (927.4MHz) are chosen for testing.

Test the EUT in transmitting mode.



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### 7.2 Test Procedure & Measurement Data

#### 7.2.1 Field Strength of Fundamental& Field Strength of Unwanted Emissions

Test Requirement: FCC Part15 C Section 15.249(a) & (d)

Test Method: Based on FCC Part15 C Section 15.249 & ANSI C63.4:2003

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 10GHz for transmitting mode.

Test instrumentation resolution bandwidth

120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 MHz - 10GHz)

Operation: Receive antenna scan height 1 - 4 m, polarization Vertical/ Horizontal, a

turntable rotate through 360° in the horizontal plane and it is used to

support the test sample at 0.8m above the ground plane.

Requirements:

FCC Part 15.249(a)

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics
(MHz)	(dBuV/m @ 3m)	(dBuV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

FCC Part 15.249(d)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

#### Remark:

The fundamental frequency rang of the EUT is 902MHz ~ 928MHz.

The limit for Quasi-Peak field strength dBuv/m for the fundamental frequency = 94.0 dBμV/m.

No fundamental is allowed in the restricted bands.

The limit for average field strength  $dB\mu V/m$  for the harmonics = 54.0  $dB\mu V/m$ .

The limit for peak field strength  $dB\mu V/m$  for the harmonics = 74.0  $dB\mu V/m$ .

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or 54.0 dB $\mu$ V/m in 15.209. Here the limit for the other emission is 54.0 dB $\mu$ V/m.



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#### **Test Procedure:**

#### 1)9K to 30MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4:2003 section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specied 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.

### 2)30MHz to 1GHz emissions:

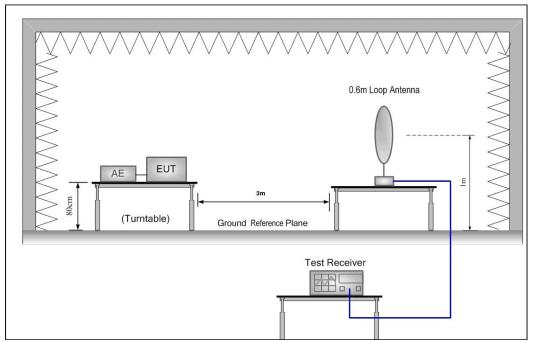
For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.4:2003. The measurement is performed with the EUT rotated 360°, the antenna height scaned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

#### 3)1GHz to 40GHz emissions:

For testing perfomed with the horn antenna, testing was perfomed in accordance to ANSI C63.4:2003. The measurement is performed with the EUT rotated 360°, the antenna height scaned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

### **Test Configuration:**

#### 1) 9K to 30MHz emissions:



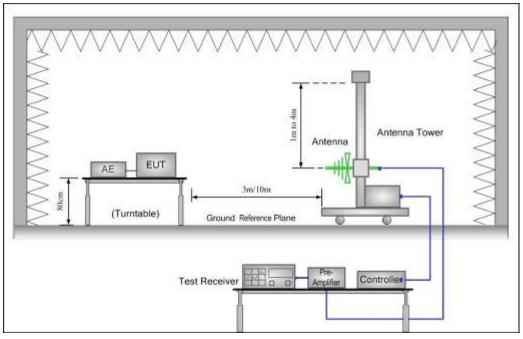


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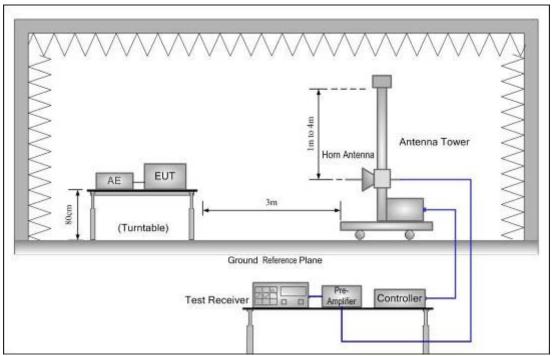
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### 2) 30MHz to 1GHz emissions:



### 3) 1GHz to 40GHz emissions:





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The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier . The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Peramlifer Factor

### The following test results were performed on the Host:

1.Test in Channel lowest (925.8MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

(4) / 1110-1114   Polatical and the control of the c								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
925.8	85.65	20.54	2.7	24.96	83.93	94	-10.07	QP
1851.6	54.4	26.91	3.83	37.2	47.94	74	-26.06	Peak
1851.6	52.73	26.91	3.83	37.2	46.27	54	-7.73	Average
462.62	50.43	16.45	1.9	25.3	43.48	46	-2.52	QP

(b) Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
925.8	83.47	20.54	2.7	24.96	81.75	94	-12.25	QP
1851.6	52.97	26.91	3.83	37.2	46.51	74	-27.49	Peak
1851.6	51.02	26.91	3.83	37.2	44.56	54	-9.44	Average
462.62	49.87	16.45	1.9	25.3	42.92	46	-3.08	QP



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2.Test in Channel highest (927.4MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
927.4	83.97	20.56	2.7	24.98	82.25	94	-11.75	QP
1854.8	53.01	26.84	3.83	37.27	46.41	74	-27.59	Peak
1854.8	51.46	26.84	3.83	37.27	44.86	54	-9.14	Average
463.28	50.13	16.48	1.9	25.28	43.23	46	-2.77	QP

(b) Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
927.4	82.90	20.56	2.7	24.98	81.18	94	-12.82	QP
1854.8	52.73	26.84	3.83	37.27	46.13	74	-27.87	Peak
1854.8	49.97	26.84	3.83	37.27	43.37	54	-10.63	Average
463.28	49.72	16.48	1.9	25.28	42.82	46	-3.18	QP

#### Remark:

- 1). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, 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.
- 2) Sweep from 30MHz to 10GHz, find the max radiated emissions and record it, when the emissions are too weak to be detected, it will not be reported.

TEST RESULTS: The unit does meet the FCC requirements.



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### 7.2.2 Occupied Bandwidth & Band Edge

Test Requirement: FCC Part 15 C Section 15.249

Test Method: ANSI C63.4:2003 and FCC Part 2.1049

Operation within the band 902-928MHz

Requirements: 15.249 (d) Emissions radiated outside of the specified frequency bands,

except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section

15.209, whichever is the lesser attenuation.

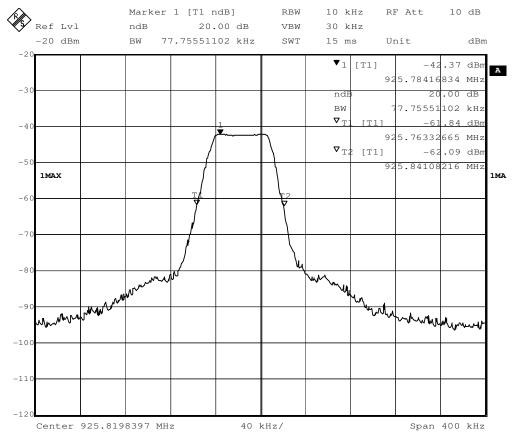
Method of A small sample of the transmitter output was fed into the Spectrum

measurement: Analyzer and the attached plot was taken.

#### For Controller:

### The occupied bandwidth as below:

Lowest Channel:925.8MHz:



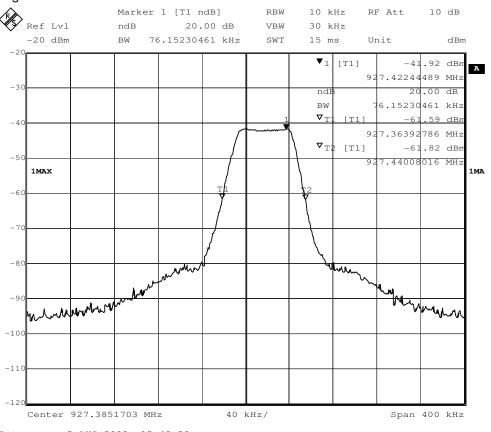


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### Highest Channel:927.4MHz



The low frequency is 925.76332665MHz, The high frequency is 927.44008016MHz, Within the band 902MHz to 928MHz.



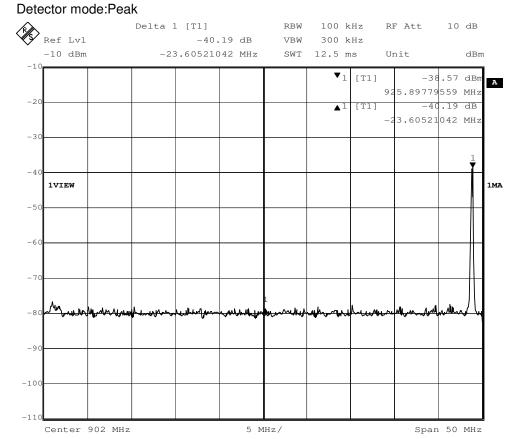
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### The Band Edge Emission as below:

Lowest Band Edage 902MHz



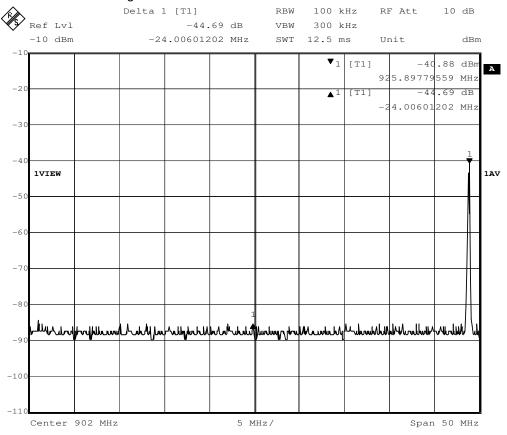


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### Detector mode:Average



For 902MHz bandedge checked with 925.8MHz frequency operated, the delta shown at the plots are -40.19dB for peak detector mode and -44.69dB for Average detector mode.

With the peak value 85.34BuV/m and average value at 82.43dBuV/m for the fundamental, the spurious emission level at 902MHz were 45.15dBuV/m for peak and 37.74dBuV/m for average.

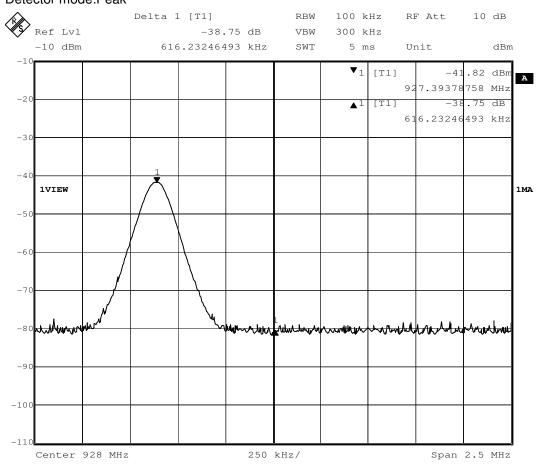


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### Highest Band Edge 928MHz Detector mode:Peak



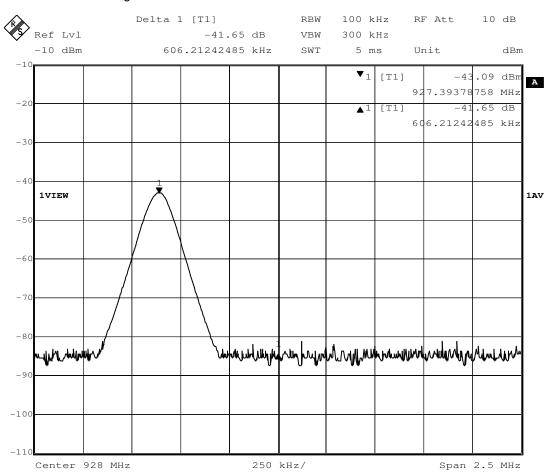


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#### Detector mode: Average



For 928MHz bandedge checked with 927.4MHz frequency operated, the delta shown at the plots are -38.75dB for peak detector mode and -41.65dB for Average detector mode.

With the peak value 82.84dBuV/m and average value at 80.56dBuV/m for the fundamental, the spurious emission level at 928MHz were 44.09dBuV/m for peak and 38.91 dBuV/m for average.

The test result for the Emissions radiated outside of the specified frequency bands , please refer to the section 7.2.1 of this report.

The results: The unit does meet the FCC requirements.



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### 7.2.3 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15.207
Test Method: ANSI C63.4:2003
Frequency Range: 150KHz to 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

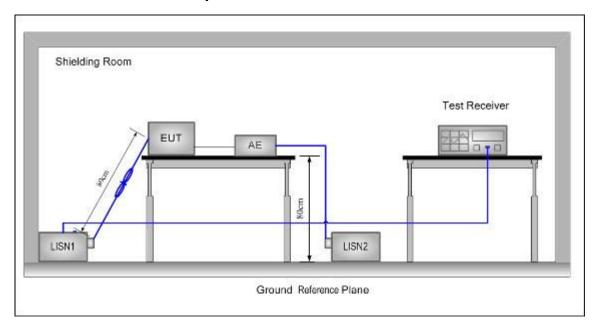
## 7.2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0 °C Humidity: 50 % RH Atmospheric Pressure: 1005 mbar

EUT Operation: Test the Host in transmitting mode.

### 7.2.3.2 Plan View of Test Setup



### 7.2.3.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The following Quasi-Peak and Average measurements were performed on the EUT.



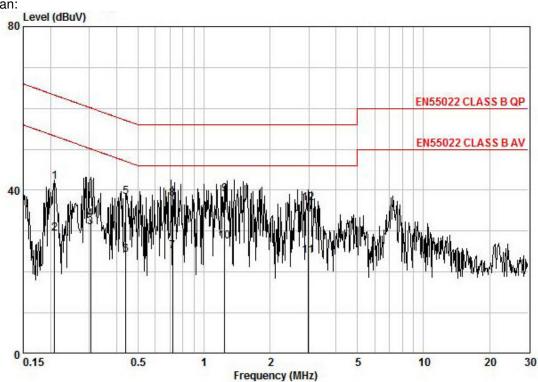
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Live Line:





Quasi-peak and Average measurement:

Freq	Read Level	Cable	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.208	32.40	0.13	9.58	42.12	63.27	-21.16	QP
0.208	19.73	0.13	9.58	29.45	53.27	-23.83	AVERAGE
0.305	21.18	0.17	9.58	30.94	50.10	-19.16	AVERAGE
0.305	23.22	0.17	9.58	32.98	60.10	-27.12	QP
0.440	28.58	0.21	9.59	38.38	57.07	-18.68	QP
0.440	14.31	0.21	9.59	24.11	47.07	-22.95	AVERAGE
0.720	15.26	0.27	9.58	25.11	46.00	-20.89	AVERAGE
0.720	28.16	0.27	9.58	38.01	56.00	-17.99	QP
1.242	29.08	0.27	9.60	38.95	56.00	-17.05	QP
1.242	17.66	0.27	9.60	27.53	46.00	-18.47	AVERAGE
2.993	14.21	0.16	9.62	23.99	46.00	-22.01	AVERAGE
2.993	26.98	0.16	9.62	36.76	56.00	-19.24	QP



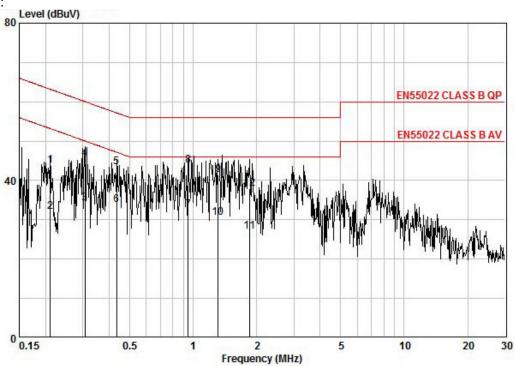
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### Neutral Line

Peak Scan:



### Quasi-peak and Average measurement:

	Read	Cable	LISN		Limit	Over	
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.211	33.98	0.14	9.59	43.71	63.18	-19.48	QP
0.211	22.28	0.14	9.59	32.01	53.18	-21.18	AVERAGE
0.307	24.37	0.18	9.59	34.14	50.06	-15.92	AVERAGE
0.307	35.80	0.18	9.59	45.57	60.06	-14.49	QP
0.435	33.66	0.21	9.59	43.46	57.15	-13.69	QP
0.435	23.89	0.21	9.59	33.69	47.15	-13.46	AVERAGE
0.948	22.57	0.29	9.58	32.44	46.00	-13.56	AVERAGE
0.948	33.90	0.29	9.58	43.77	56.00	-12.23	QP
1.317	31.64	0.26	9.59	41.49	56.00	-14.51	QP
1.317	20.57	0.26	9.59	30.42	46.00	-15.58	AVERAGE
1.858	17.22	0.22	9.60	27.04	46.00	-18.96	AVERAGE
1.858	28.10	0.22	9.60	37.92	56.00	-18.08	QP