
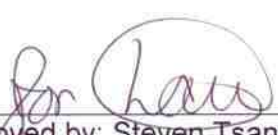




TEST REPORT No: (5211)279-0837

TEST REPORT

To:	ADVANCED CONTROL TECHNOLOGIES, INC.	To:	-
Attn:	Kevin Shelow	Attn:	-
Address:	6805 Hillsdale Ct. Indianapolis, IN. 46250, USA	Address:	-
Fax:	--	Fax:	-
E-mail:	kshelow@act-solutions.com	E-mail:	-
Folder No.:	MEW-11OC043LTHS-B-A		
Factory name:	MEGA WORLD HOLDINGS LTD.		
Location:	Unit J, 13/F., World Tech Centre, 95 How Ming Street, Kwun Tong, Hong Kong		
Product:	Lighting Dimmer Model No.: LRM-1000		
(Please see Exhibit: External Photo)	Sample No:	HK110920/001	
	Test date:	October 12, 2011 To October 13, 2011	
	Test Requested:	FCC Part 15 - 2010	
	Test Method:	ANSI C63.4 – 2003	
	FCC ID:	QIE0810-01	
The results given in this report are related to the tested specimen of the described electrical apparatus.			
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.			
Authorized Signature:			
			
Reviewed by: Keith Yeung		Approved by: Steven Tsang	
Date: October 18, 2011		Date: October 18, 2011	

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
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This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5211)279-0837

Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCS 30	830986/030	13-DEC-2011
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	16-SEP-2012
OPEN AREA TEST SITE	BVCPS	N/A	N/A	07-JULY-2012
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	26-OCT-2011
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	16-SEP-2012
PREAMPLIFIER	SCHWARZBECK	BBV9718	9718-152	16-SEP-2012
COAXIAL CABLE	SUHNER	N/A	N/A	06-OCT-2012

Conducted Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCS 30	830986/030	13-DEC-2011
LISN	R&S	ENV216	100024	12-APR-2012

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result



TEST REPORT No: (5211)279-0837

Equipment Under Test [EUT]

Description of Sample:

Model Name: Lighting Dimmer
Model Number: LRM-1000
Rating: 120Va.c, 60Hz

Description of EUT Operation:

The Equipment Under Test (EUT) is an ADVANCED CONTROL TECHNOLOGIES, INC. of RF Fixture Module. It is a 2 switches and operating at 908.40MHz transceiver. The EUT transmit when ON/OFF switch is being pressed,. Modulation by IC, and type is FSK modulation.

The transmitter has different control:

1. ON/OFF switch – on, off and dimmer control
2. Air Gap Load Disconnect switch – operation / disconnects power to load control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 8cm long wire. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

TEST REPORT No: (5211)279-0837

Test Results

Emission

Conducted Emissions (150kHz to 30MHz)

Test Requirement: FCC Part 15 Section 15.207
Test Method: ANSI C63.4
Test Limits: Class B
Test Date(s): 2011-10-12
Temperature: 26.0 °C
Humidity: 68.0 %
Atmospheric Pressure: 100.7 kPa
Mode of Operation: Transmission mode & Receiver mode
Tested Voltage: 117Va.c., 60Hz

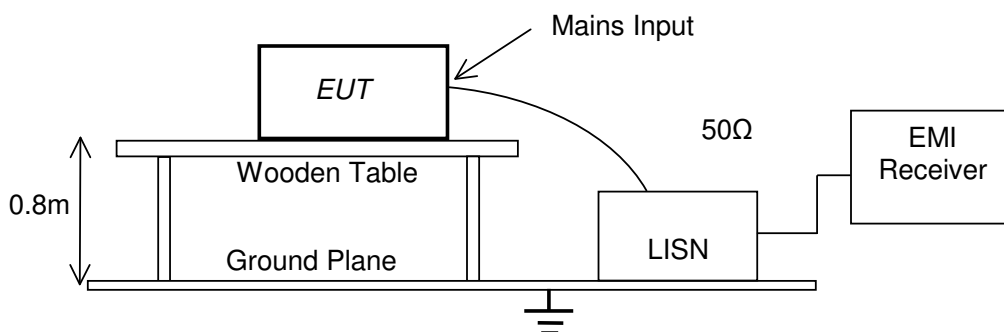
Test Procedure:

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

Initial measurements were performed in peak and average detection modes on the live and neutral line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Location: Shielding Room, No. 603, 6/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup:



TEST REPORT No: (5211)279-0837

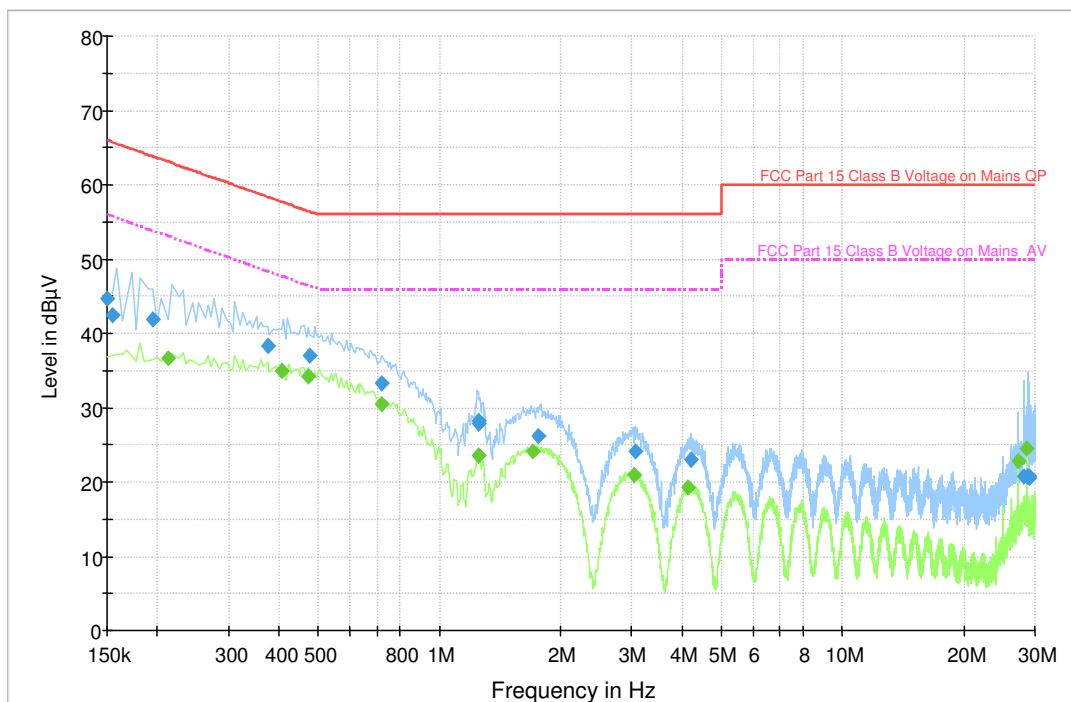
Measurement Data: Live

Test Result of (Transmission mode): PASS

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

FCC Part 15 Class B Voltage



TEST REPORT No: (5211)279-0837

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following tables.

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.150000	44.6	9.000	L1	21.4	66.0
0.154500	42.4	9.000	L1	23.4	65.8
0.195000	41.9	9.000	L1	21.9	63.8
0.375000	38.3	9.000	L1	20.1	58.4
0.478500	36.9	9.000	L1	19.5	56.4
0.717000	33.3	9.000	L1	22.7	56.0
1.248000	28.1	9.000	L1	27.9	56.0
1.252500	27.8	9.000	L1	28.2	56.0
1.756500	26.1	9.000	L1	29.9	56.0
3.057000	24.2	9.000	L1	31.8	56.0
4.204500	23.0	9.000	L1	33.0	56.0
28.221000	20.7	9.000	L1	39.3	60.0
28.936500	20.7	9.000	L1	39.3	60.0
29.004000	20.8	9.000	L1	39.2	60.0
29.116500	20.6	9.000	L1	39.4	60.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.213000	36.6	9.000	L1	16.5	53.1
0.406500	34.9	9.000	L1	12.8	47.7
0.474000	34.3	9.000	L1	12.1	46.4
0.721500	30.4	9.000	L1	15.6	46.0
1.248000	23.6	9.000	L1	22.4	46.0
1.702500	24.2	9.000	L1	21.8	46.0
3.039000	20.8	9.000	L1	25.2	46.0
4.150500	19.3	9.000	L1	26.7	46.0
27.352500	22.8	9.000	L1	27.2	50.0
28.540500	24.5	9.000	L1	25.5	50.0

TEST REPORT No: (5211)279-0837

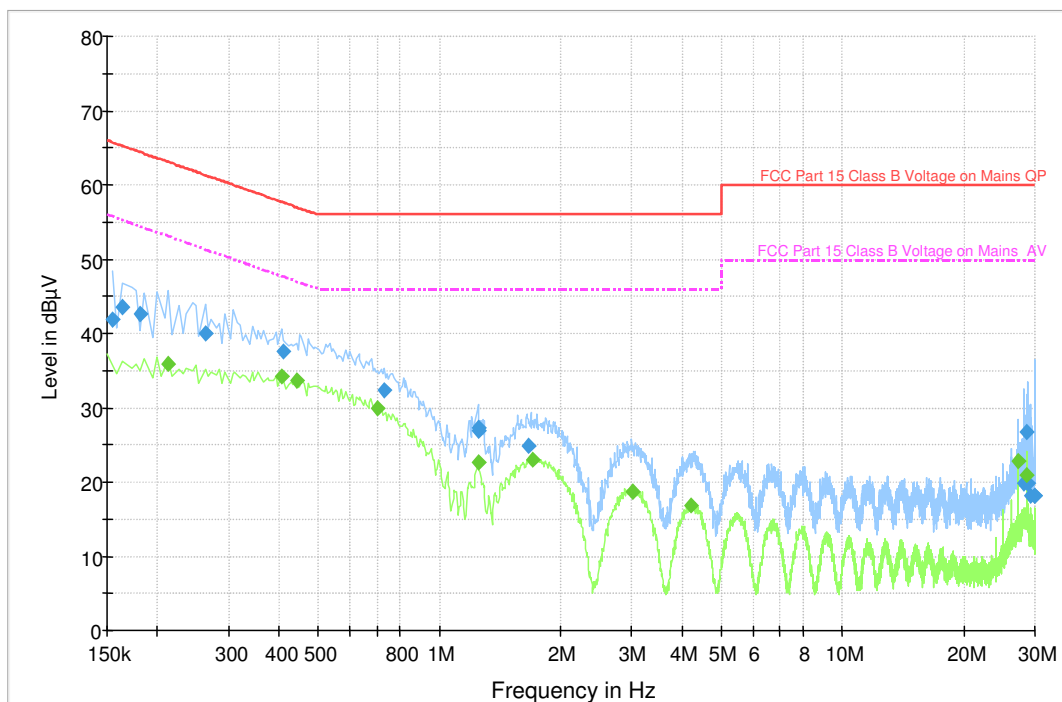
Measurement Data: Neutral

Test Result of (Transmission mode): PASS

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

FCC Part 15 Class B Voltage



TEST REPORT No: (5211)279-0837

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following tables.

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.154500	42.0	9.000	N	23.8	65.8
0.163500	43.6	9.000	N	21.7	65.3
0.181500	42.6	9.000	N	21.8	64.4
0.262500	39.9	9.000	N	21.5	61.4
0.411000	37.5	9.000	N	20.1	57.6
0.730500	32.4	9.000	N	23.6	56.0
1.248000	27.3	9.000	N	28.7	56.0
1.252500	27.0	9.000	N	29.0	56.0
1.666500	24.9	9.000	N	31.1	56.0
28.194000	19.8	9.000	N	40.2	60.0
28.540500	26.7	9.000	N	33.3	60.0
28.914000	19.7	9.000	N	40.3	60.0
29.337000	18.0	9.000	N	42.0	60.0
29.976000	18.2	9.000	N	41.8	60.0
30.000000	18.2	9.000	N	41.8	60.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.213000	35.9	9.000	N	17.2	53.1
0.406500	34.2	9.000	N	13.5	47.7
0.442500	33.6	9.000	N	13.4	47.0
0.703500	29.8	9.000	N	16.2	46.0
1.248000	22.6	9.000	N	23.4	46.0
1.702500	22.9	9.000	N	23.1	46.0
3.025500	18.8	9.000	N	27.2	46.0
4.204500	16.8	9.000	N	29.2	46.0
27.348000	22.7	9.000	N	27.3	50.0
28.540500	20.8	9.000	N	29.2	50.0

TEST REPORT No: (5211)279-0837

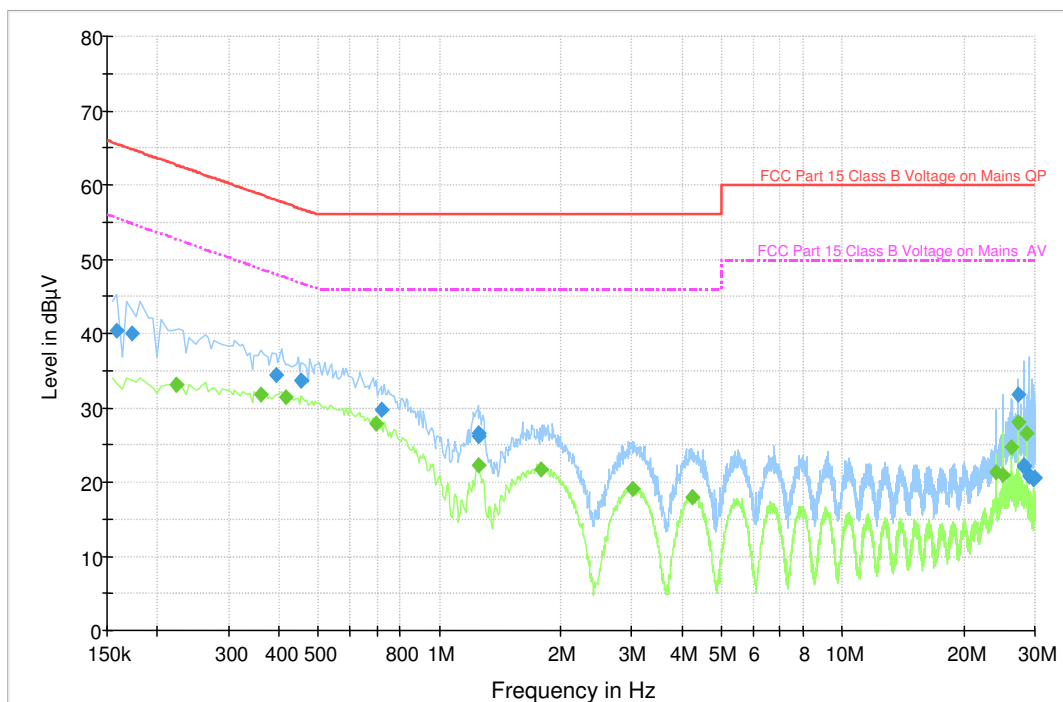
Measurement Data: Live

Test Result of (Receiver mode): PASS

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

FCC Part 15 Class B Voltage



TEST REPORT No: (5211)279-0837

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following tables.

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.159000	40.4	9.000	L1	25.1	65.5
0.172500	40.0	9.000	L1	24.8	64.8
0.393000	34.4	9.000	L1	23.6	58.0
0.456000	33.6	9.000	L1	23.2	56.8
0.721500	29.7	9.000	L1	26.3	56.0
1.252500	26.6	9.000	L1	29.4	56.0
1.257000	26.1	9.000	L1	29.9	56.0
27.348000	31.8	9.000	L1	28.2	60.0
28.185000	22.3	9.000	L1	37.7	60.0
28.194000	22.1	9.000	L1	37.9	60.0
28.977000	20.7	9.000	L1	39.3	60.0
29.071500	20.8	9.000	L1	39.2	60.0
29.647500	20.3	9.000	L1	39.7	60.0
29.899500	20.6	9.000	L1	39.4	60.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.222000	33.1	9.000	L1	19.7	52.7
0.361500	31.9	9.000	L1	16.8	48.7
0.415500	31.4	9.000	L1	16.1	47.5
0.694500	27.9	9.000	L1	18.1	46.0
1.248000	22.2	9.000	L1	23.8	46.0
1.792500	21.6	9.000	L1	24.4	46.0
3.021000	19.0	9.000	L1	27.0	46.0
4.254000	17.9	9.000	L1	28.1	46.0
24.009000	21.3	9.000	L1	28.7	50.0
24.972000	20.9	9.000	L1	29.1	50.0
26.160000	24.6	9.000	L1	25.4	50.0
27.348000	28.1	9.000	L1	21.9	50.0
28.536000	26.5	9.000	L1	23.5	50.0

TEST REPORT No: (5211)279-0837

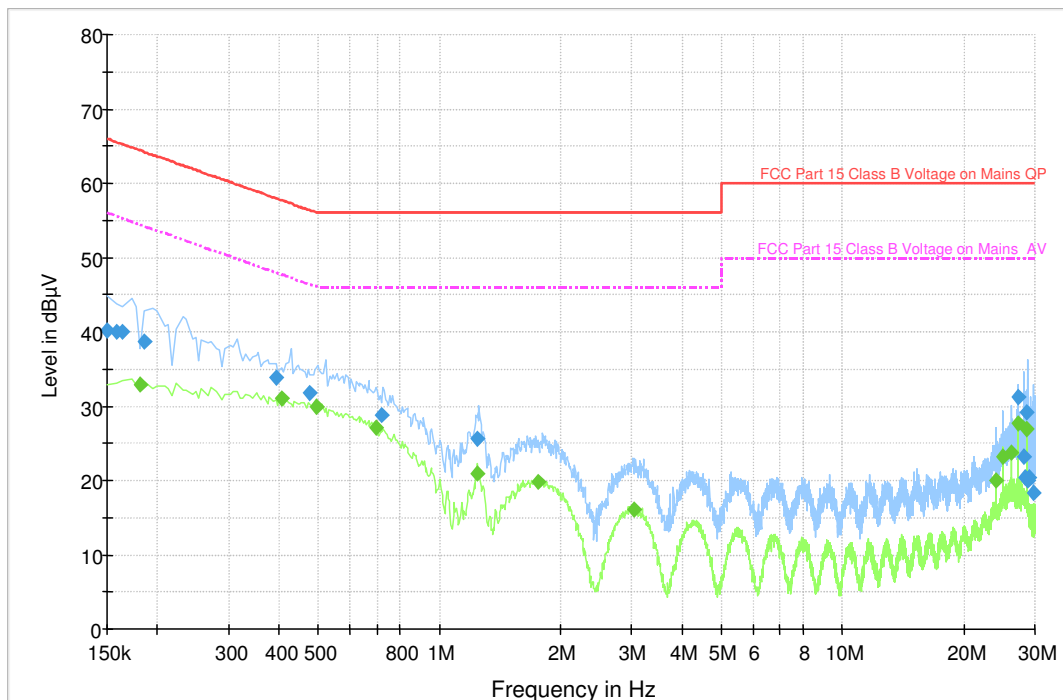
Measurement Data: Neutral

Test Result of (Receiver mode): PASS

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

FCC Part 15 Class B Voltage



TEST REPORT No: (5211)279-0837

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following tables.

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.150000	40.2	9.000	N	25.8	66.0
0.159000	40.1	9.000	N	25.4	65.5
0.163500	39.9	9.000	N	25.4	65.3
0.186000	38.7	9.000	N	25.5	64.2
0.393000	33.7	9.000	N	24.3	58.0
0.478500	31.9	9.000	N	24.5	56.4
0.721500	28.8	9.000	N	27.2	56.0
1.243500	25.6	9.000	N	30.4	56.0
27.348000	31.3	9.000	N	28.7	60.0
28.180500	23.1	9.000	N	36.9	60.0
28.329000	20.4	9.000	N	39.6	60.0
28.540500	29.1	9.000	N	30.9	60.0
28.797000	19.9	9.000	N	40.1	60.0
28.972500	20.4	9.000	N	39.6	60.0
29.665500	18.2	9.000	N	41.8	60.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)
0.181500	32.8	9.000	N	21.6	54.4
0.406500	31.0	9.000	N	16.7	47.7
0.496500	29.9	9.000	N	16.2	46.1
0.694500	27.0	9.000	N	19.0	46.0
1.243500	21.0	9.000	N	25.0	46.0
1.756500	19.8	9.000	N	26.2	46.0
3.034500	16.0	9.000	N	30.0	46.0
24.009000	20.0	9.000	N	30.0	50.0
24.972000	23.3	9.000	N	26.7	50.0
26.160000	23.8	9.000	N	26.2	50.0
27.348000	27.7	9.000	N	22.3	50.0
28.536000	26.9	9.000	N	23.1	50.0

TEST REPORT No: (5211)279-0837

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249
 Test Method: ANSI C63.4
 Test Date(s): 2011-10-13
 Temperature: 25.0 °C
 Humidity: 77.0 %
 Atmospheric Pressure: 100.9 kPa
 Mode of Operation: Transmission mode
 Tested Voltage: 117Va.c., 60Hz

Test Procedure:

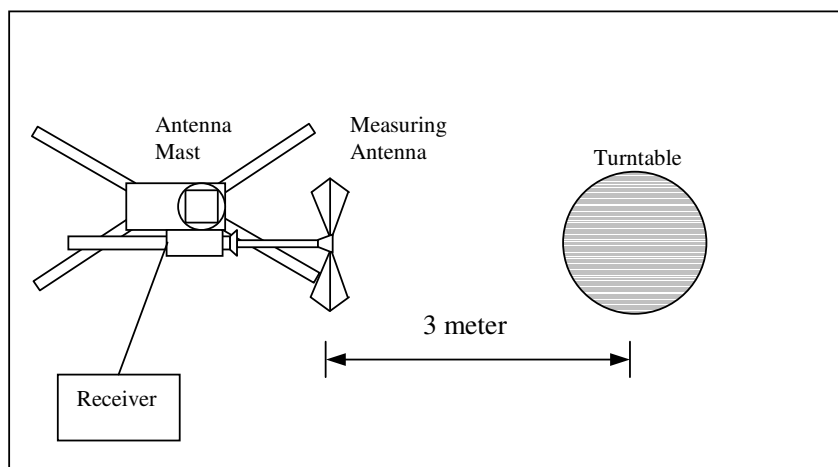
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site





TEST REPORT No: (5211)279-0837

Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission (Quasi-Peak) [mV/m]	Field Strength of Harmonics Emission (Average) [μV/m]
902-928	50	500

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V) and degree	EUT Orientation	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
908.40	H	Front side	22.7	75.6	94.0	-18.4
908.40	V	Front side	22.7	82.9	94.0	-11.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz
VBW = 300KHz



TEST REPORT No: (5211)279-0837

Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249
Test Method: ANSI C63.4
Test Date(s): 2011-10-13
Temperature: 25.0 °C
Humidity: 77.0 %
Atmospheric Pressure: 100.9 kPa
Mode of Operation: Transmission mode
Tested Voltage: 117Va.c., 60Hz

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.80	H	-5.8	33.6	74.0	-40.4
2725.20	H	-3.1	38.5	74.0	-35.5
3633.60	H	-0.9	39.8	74.0	-34.2
4542.00	H	1.7	42.2	74.0	-31.8
5450.40	H	4.2	43.9	74.0	-30.1
6358.80	H	6.8	46.2	74.0	-27.8
7267.20	H	10.0	52.5	74.0	-21.5
8175.60	H	11.2	52.0	74.0	-22.0
9084.00	H	12.4	52.8	74.0	-21.2
9992.40	H	11.9	51.6	74.0	-22.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz



TEST REPORT No: (5211)279-0837

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
1816.80	V	-5.8	35.8	74.0	-38.2
2725.20	V	-3.1	39.2	74.0	-34.8
3633.60	V	-0.9	39.5	74.0	-34.5
4542.00	V	1.7	41.2	74.0	-32.8
5450.40	V	4.2	42.5	74.0	-31.5
6358.80	V	6.8	46.1	74.0	-27.9
7267.20	V	10.0	50.8	74.0	-23.2
8175.60	V	11.2	52.0	74.0	-22.0
9084.00	V	12.4	53.1	74.0	-20.9
9992.40	V	11.9	50.9	74.0	-23.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

TEST REPORT No: (5211)279-0837

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.80	H	-5.8	23.6	54.0	-30.4
2725.20	H	-3.1	28.7	54.0	-25.3
3633.60	H	-0.9	30.3	54.0	-23.7
4542.00	H	1.7	31.8	54.0	-22.2
5450.40	H	4.2	33.7	54.0	-20.3
6358.80	H	6.8	36.8	54.0	-17.2
7267.20	H	10.0	41.5	54.0	-12.5
8175.60	H	11.2	42.9	54.0	-11.1
9084.00	H	12.4	43.7	54.0	-10.3
9992.40	H	11.9	42.1	54.0	-11.9

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.80	V	-5.8	25.6	54.0	-28.4
2725.20	V	-3.1	28.4	54.0	-25.6
3633.60	V	-0.9	30.3	54.0	-23.7
4542.00	V	1.7	31.9	54.0	-22.1
5450.40	V	4.2	33.7	54.0	-20.3
6358.80	V	6.8	36.8	54.0	-17.2
7267.20	V	10.0	41.5	54.0	-12.5
8175.60	V	11.2	42.9	54.0	-11.1
9084.00	V	12.4	43.8	54.0	-10.2
9992.40	V	11.9	42.2	54.0	-11.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 10Hz



TEST REPORT No: (5211)279-0837

Radiated Emissions

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.4
Test Date(s): 2011-10-13
Temperature: 25.0 °C
Humidity: 77.0 %
Atmospheric Pressure: 100.9 kPa
Mode of Operation: Transmission mode & Receiver mode
Tested Voltage: 117Va.c., 60Hz

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500

TEST REPORT No: (5211)279-0837

Measurement Data

Test Result of (Receiver mode): **PASS**

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
908.12	H	37.8	46.0	-8.2
908.12	V	39.1	46.0	-6.9

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.24	H	32.6	74.0	-41.4
2724.36	H	37.8	74.0	-36.2
3632.48	H	40.2	74.0	-33.8
4540.60	H	40.8	74.0	-33.2
5448.72	H	42.6	74.0	-31.4

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.24	V	34.7	74.0	-39.3
2724.36	V	38.2	74.0	-35.8
3632.48	V	40.9	74.0	-33.1
4540.60	V	42.0	74.0	-32.0
5448.72	V	42.6	74.0	-31.4

Note: Field Strength includes Antenna Factor and Cable Loss.

During the test shall be used to radiate an unmodulated CW signal to a superregenerative receiver at its operating frequency in order to "cohere" or to resolve the individual components of the characteristic broadband emissions from such a receiver. The level of the signal may need to be increased for this to occur.

Receiver setting (30-1000MHz) :RBW = 100KHz
:VBW = 300KHz

Receiver setting (1-18GHz) :RBW = 1MHz
:VBW = 1MHz



TEST REPORT No: (5211)279-0837

Measurement Data

Test Result of (Receiver mode): PASS

Detection mode: Average

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.24	H	23.3	54.0	-30.7
2724.36	H	28.1	54.0	-25.9
3632.48	H	30.3	54.0	-23.7
4540.60	H	31.8	54.0	-22.2
5448.72	H	33.7	54.0	-20.3

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1816.24	V	23.5	54.0	-30.5
2724.36	V	28.1	54.0	-25.9
3632.48	V	30.2	54.0	-23.8
4540.60	V	31.8	54.0	-22.2
5448.72	V	33.7	54.0	-20.3

Note: Field Strength includes Antenna Factor and Cable Loss.

During the test shall be used to radiate an unmodulated CW signal to a superregenerative receiver at its operating frequency in order to "cohere" or to resolve the individual components of the characteristic broadband emissions from such a receiver. The level of the signal may need to be increased for this to occur.

Receiver setting :RBW = 1MHz
VBW = 10Hz



TEST REPORT No: (5211)279-0837

Measurement Data

Test Result of (Transmission and Receiver mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
50.62	H	23.7	40.0	-16.3
225.76	H	24.1	46.0	-21.9
438.08	H	28.9	46.0	-17.1

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
195.22	V	21.3	43.5	-22.2
257.38	V	23.7	46.0	-22.3
326.28	V	25.6	46.0	-20.4

Note: Field Strength includes Antenna Factor and Cable Loss.

During the test shall be used to radiate an unmodulated CW signal to a superregenerative receiver at its operating frequency in order to "cohere" or to resolve the individual components of the characteristic broadband emissions from such a receiver. The level of the signal may need to be increased for this to occur.

Receiver setting (30-1000MHz) :RBW = 100KHz
:VBW = 300KHz

Receiver setting (1-18GHz) :RBW = 1MHz
:VBW = 1MHz



TEST REPORT No: (5211)279-0837

Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249
Test Method: ANSI C63.4:2003 (Section 13.1.7)
Test Date(s): 2011-10-13
Temperature: 25.0 °C
Humidity: 77.0 %
Atmospheric Pressure: 100.9 kPa
Mode of Operation: Transmission mode
Tested Voltage: 117Va.c., 60Hz

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

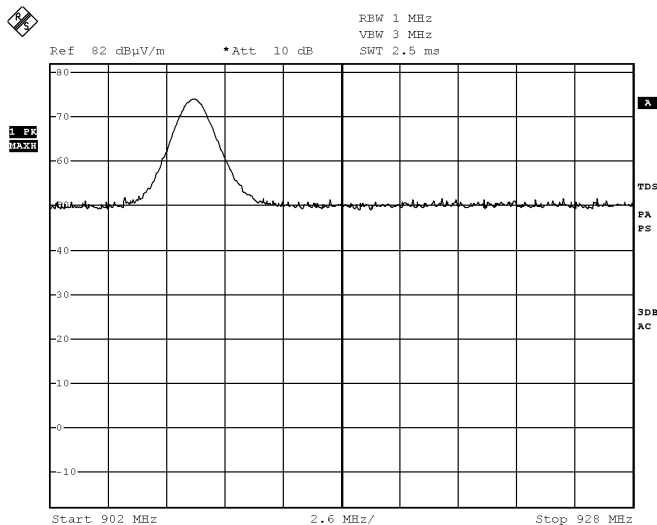
Limits for Frequency range of Fundamental Emission:

Frequency [MHz]	FCC Limits [MHz]
908.40	902-928

TEST REPORT No: (5211)279-0837

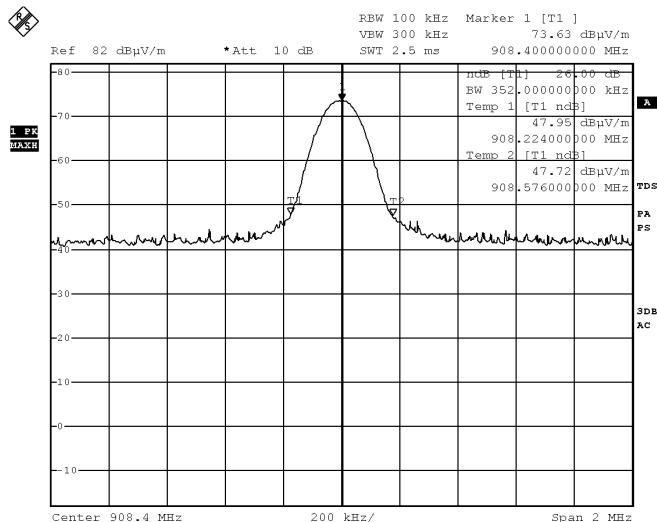
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS



Date: 13.OCT.2011 09:39:09

Test Result of 26dB bandwidth of Fundamental Emission: PASS



Date: 13.OCT.2011 09:40:22

***** End of Report *****