

Issuing Laboratory:  
Intertek Testing Services Hong Kong Limited

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## TEST REPORT

**Report Number: 13101059HKG-002**

Application  
for  
Original Grant of 47 CFR Part 15 Certification  
New Family of RSS-210 Issue 8 Equipment Certification

2.4GHz Analog Modulation Parent Unit

**FCC ID: N7TAC403R**

**IC: 5786A-AC403R**

Prepared and Checked by:

Handwritten signature of Benny Lau in black ink.

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Lau Chin Yu, Benny  
Lead Engineer

Approved by:

Handwritten signature of Melvin Nip in black ink.

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Nip Ming Fung, Melvin  
Assistant Manager  
December 16, 2013

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**Intertek Testing Services Hong Kong Ltd.**

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## GENERAL INFORMATION

<b>Applicant Name:</b>	Angelcare Monitors Inc.
<b>Applicant Address:</b>	9975, Av. De Catania, Local B, Brossard, Quebec J4Z 3V6 Canada
<b>FCC Specification Standard:</b>	FCC Part 15, October 1, 2012 Edition
<b>FCC ID:</b>	N7TAC403R
<b>FCC Model(s):</b>	AC403, AC405
<b>IC Specification Standard:</b>	RSS-210 Issue 8, December 2010 RSS-Gen Issue 3, December 2010
<b>IC:</b>	5786A-AC403R
<b>IC Model(s):</b>	AC403-P, AC405-P
<b>Type of EUT:</b>	Transceiver
<b>Description of EUT:</b>	2.4GHz Analog Modulation Parent Unit
<b>Serial Number:</b>	N/A
<b>Sample Receipt Date:</b>	October 31, 2013
<b>Date of Test:</b>	November 11 - December 05, 2013
<b>Report Date:</b>	December 16, 2013
<b>Environmental Conditions:</b>	Temperature: +10 to 40°C Humidity: 10 to 90%

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**EXHIBIT 1**  
**TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE**

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## 1.0 Test Results Summary & Statement of Compliance

### 1.1 Summary of Test Results

Test Items	FCC Part 15 Section	RSS-210/ RSS-Gen <sup>#</sup> / RSS-310 <sup>^</sup> Section	Results	Details see section
Antenna Requirement	15.203	7.1.2 <sup>#</sup>	Pass	2.1
Radiated Emission	15.249(a), 209, & 109	A2.9(a)	Pass	4.2
Radiated Emission on the Bandedge	15.249(d)	A2.9(b)	Pass	4.3
Radiated Emission in Restricted Bands	15.205	2.2	Pass	4.2
AC Power Line Conducted Emission	15.207 & 15.107	7.2.4 <sup>#</sup>	Pass	4.4

Note: Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

### 1.2 Statement of Compliance

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2012 Edition  
RSS-210 Issue 8, December 2010  
RSS-Gen Issue 3, December 2010

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**EXHIBIT 2**  
**GENERAL DESCRIPTION**

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## 2.0 General Description

### 2.1 Product Description

The AC403 is a 2.4GHz Analog Modulation Parent Unit. It operates at frequency range of 2400.950MHz to 2402.150MHz. The Parent Unit is powered by an adaptor 100-240VAC to 7.5VDC 0.5A and/or 3 x "Ni-MH" type "AAA" size rechargeable battery (1.2V, 600mAh).

The antenna used in Parent unit is integral, and the test sample is a prototype.

For FCC, the Model(s): AC405 is the same as the Model: AC403 in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color and model number to be sold for marketing purpose.

For IC, the Model(s): AC403-P and AC405-P are the same as the Model: AC403 in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color and model number to be sold for marketing purpose.

The circuit description is saved with filename: descri.pdf.

### 2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009) and ANSI C63.10 (2009). Preliminary radiated scans and all radiated measurements were performed in Open Area Test Sites. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

### 2.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data and conducted data are at Roof Top and 2<sup>nd</sup> Floor respectively of Intertek Testing Services Hong Kong Ltd., which is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC and the Industry Canada.

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**EXHIBIT 3**  
**SYSTEM TEST CONFIGURATION**



### 3.0 **System Test Configuration**

#### 3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup to transmit continuously / normal mode to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables (if any) were manipulated to produce worst case emissions.

he EUT was powered by a 100-240VAC to 7.5VDC 0.5A adaptor and/or fully charged batteries.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the EUT attached to peripherals, they were connected and operational to simulate typical use.

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Radiated emissions were taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

For any intentional radiator powered by AC power line, measurements of the radiated signal level of the fundamental frequency component of the emission was performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

For transmitter radiated measurement, the spectrum analyzer resolution bandwidth was 100 kHz for frequencies below 1000 MHz. The resolution bandwidth was 1 MHz for frequencies above 1000 MHz.

Radiated emission measurement for transmitter was performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Emission that are directly caused by digital circuits in the transmit path and transmitter portion were measured, and the limit are according to FCC Part 15 Section 15.209. Digital circuitry used to control additional functions other than the operation of the transmitter are subject to FCC Part 15 Section 15.109 Limits.

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### 3.1 Justification - Cont'd

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in section 4.2.3.

Pulse desensitization is not applicable for this device. Since the transmitter transmits the RF signal continuously.

For AC line conducted emission test, the EUT along with its peripherals were placed on a 1.0m(W)x1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50ohm coupling impedance for measuring instrument. The LISN housing, measuring instrument case, reference ground plane, and vertical ground plane were bounded together. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

All relevant operation modes have been tested, and the worst case data was included in this report.

### 3.2 EUT Exercising Software

The EUT exercise program used during radiated testing was designed to exercise the various system components in a manner similar to a typical use.

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### 3.3 Details of EUT and Description of Accessories

Details of EUT:

An AC adaptor and/or a battery (provided with the unit) were used to power the device. Their description are listed below.

- (1) An AC adaptor (100-240VAC to 7.5VDC 0.5A, Model: T07505U002, Brand: Angelcare) (Supplied by Client)
- (2) 3 x "Ni-MH" type "AAA" size rechargeable battery (1.2V, 600mAh, Model: GN60AAAHC, Brand: GP / Model: HFR-44AAAJ600, Brand: HFR) (Supplied by Client)

Description of Accessories:

- (1) Baby Unit, Model: AC403, FCC ID: N7TAC403T (Supplied by Client)

### 3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

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**EXHIBIT 4**  
**TEST RESULTS**

#### 4.0 Test Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

##### 4.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where

- FS = Field Strength in dB $\mu$ V/m
- RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB
- AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

##### Example

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29 \text{ dB} \\ PD &= 0 \text{ dB} \\ AV &= -10 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{ dB}\mu\text{V/m} \end{aligned}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(32 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

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## 4.2 Radiated Emissions

### 4.2.1 Radiated Emission Configuration Photograph

Worst Case Radiated Emission  
at

2402.150 MHz

The worst case radiated emission configuration photographs are saved with filename: config photos.pdf

### 4.2.2 Radiated Emission Data

The data in tables 1-3 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Passed by 2.3 dB margin

Mode: TX-Channel 00

Table 1

**Radiated Emission Data**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2400.950	94.6	33	29.4	91.0	94.0	-3.0
<b>V</b>	<b>1200.475</b>	<b>52.5</b>	<b>33</b>	<b>26.1</b>	<b>45.6</b>	<b>54.0</b>	<b>-8.4</b>
<b>V</b>	<b>3601.425</b>	<b>45.4</b>	<b>33</b>	<b>33.3</b>	<b>45.7</b>	<b>54.0</b>	<b>-8.3</b>
<b>H</b>	<b>4801.900</b>	<b>45.9</b>	<b>33</b>	<b>34.9</b>	<b>47.8</b>	<b>54.0</b>	<b>-6.2</b>
H	7202.850	41.9	33	37.9	46.8	54.0	-7.2
H	9603.800	38.8	33	40.4	46.2	54.0	-7.8
<b>H</b>	<b>12004.750</b>	<b>38.5</b>	<b>33</b>	<b>40.5</b>	<b>46.0</b>	<b>54.0</b>	<b>-8.0</b>
H	14405.700	38.8	33	40.0	45.8	54.0	-8.2

- NOTES:
1. Peak detector is used for the emission measurement.
  2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
  3. Negative value in the margin column shows emission below limit.
  4. Horn antenna is used for the emission over 1000MHz.
  5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

Mode: TX-Channel 02

Table 2

**Radiated Emission Data**

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
V	2402.150	95.3	33	29.4	91.7	94.0	-2.3
<b>V</b>	<b>1201.075</b>	<b>52.7</b>	<b>33</b>	<b>26.1</b>	<b>45.8</b>	<b>54.0</b>	<b>-8.2</b>
<b>V</b>	<b>3603.225</b>	<b>45.5</b>	<b>33</b>	<b>33.3</b>	<b>45.8</b>	<b>54.0</b>	<b>-8.2</b>
<b>H</b>	<b>4804.300</b>	<b>45.8</b>	<b>33</b>	<b>34.9</b>	<b>47.7</b>	<b>54.0</b>	<b>-6.3</b>
H	7206.450	41.9	33	37.9	46.8	54.0	-7.2
H	9608.600	39.0	33	40.4	46.4	54.0	-7.6
<b>H</b>	<b>12010.750</b>	<b>38.5</b>	<b>33</b>	<b>40.5</b>	<b>46.0</b>	<b>54.0</b>	<b>-8.0</b>
H	14412.900	38.9	33	40.0	45.9	54.0	-8.1

- NOTES: 1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.



Mode: TX

Table 3

**Radiated Emission Data**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	48.289	38.9	16	11.0	33.9	40.0	-6.1
V	96.879	37.8	16	12.0	33.8	43.5	-9.7
<b>V</b>	<b>120.658</b>	<b>36.3</b>	<b>16</b>	<b>14.0</b>	<b>34.3</b>	<b>43.5</b>	<b>-9.2</b>
H	144.458	36.5	16	14.0	34.5	43.5	-9.0
H	192.569	34.4	16	16.0	34.4	43.5	-9.1
H	216.003	32.6	16	17.0	33.6	46.0	-12.4

- NOTES: 1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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#### 4.2.3 Transmitter Duty Cycle Calculation

The average factor is not applicable for this device as the transmitted signal is a continuously signal.

#### 4.3 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz and 2483.5MHz). In case of emissions up to two standard bandwidths away from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.10 (2009) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in FCC Part 15 Section 15.209 / Table 5 of RSS-Gen, whichever is the lesser attenuation, which meet the requirement of FCC Part 15 Section 15.249(d) / RSS-210 A2.9(b).

The plots of radiated emission on the bandedge are saved as below.

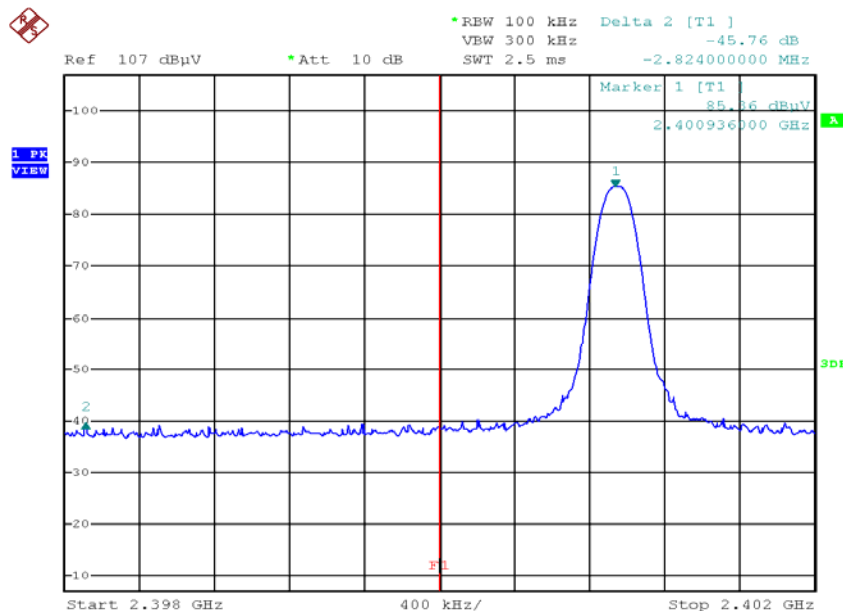
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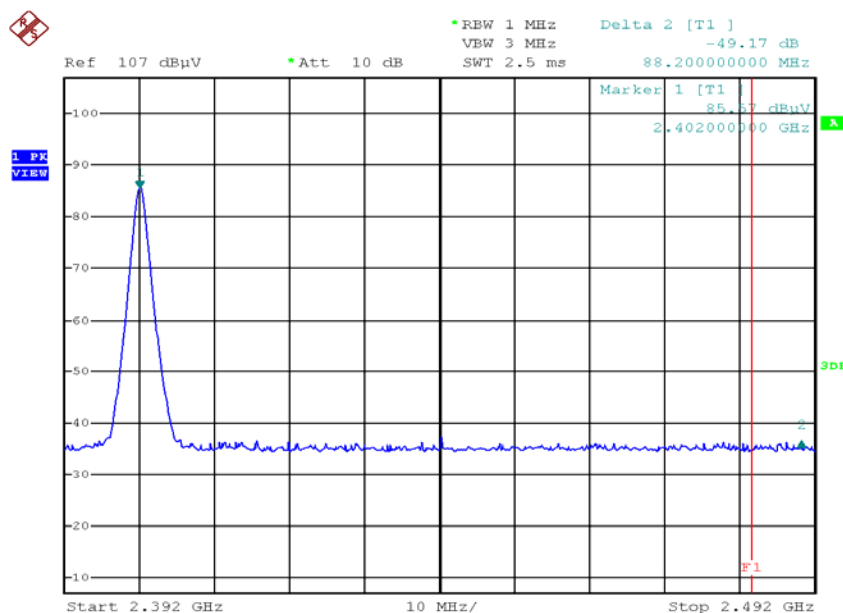


## Plots of radiated emission on the bandedge

### Parent unit, Lowest channel



### Parent unit, Highest channel



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#### 4.4 AC Power Line Conducted Emission

- Not applicable – EUT is only powered by battery for operation.
- EUT connects to AC power line. Emission Data is listed in following pages.
- Base Unit connects to AC power line and has transmission. Handset connects to AC power line but has no transmission. Emission Data of Base Unit is listed in following pages.

##### 4.4.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration  
at

0.3525 MHz

The worst case line conducted configuration photographs are saved with filename: config photos.pdf.

##### 4.4.2 AC Power Line Conducted Emission Data

The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance.

Passed by 16.99 dB margin

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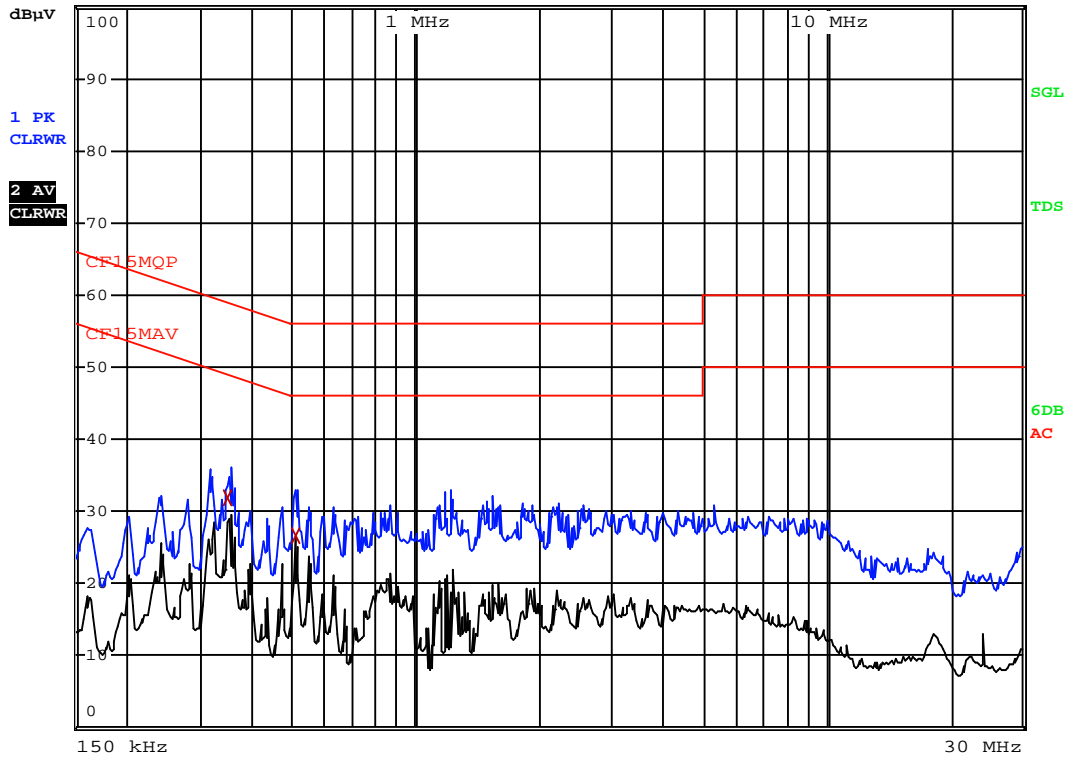


Model No.: AC403  
Worst Case: Sound Receiving



RBW 9 kHz  
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 4.DEC.2013 17:29:23

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Model No.: AC403  
Worst Case: Sound Receiving

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL d $\mu$ V		DELTA LIMIT dB
2 CISPR Average	352.5 kHz	31.90 L1		-16.99
2 CISPR Average	510 kHz	26.66 L1		-19.33

Date: 4.DEC.2013 17:28:57

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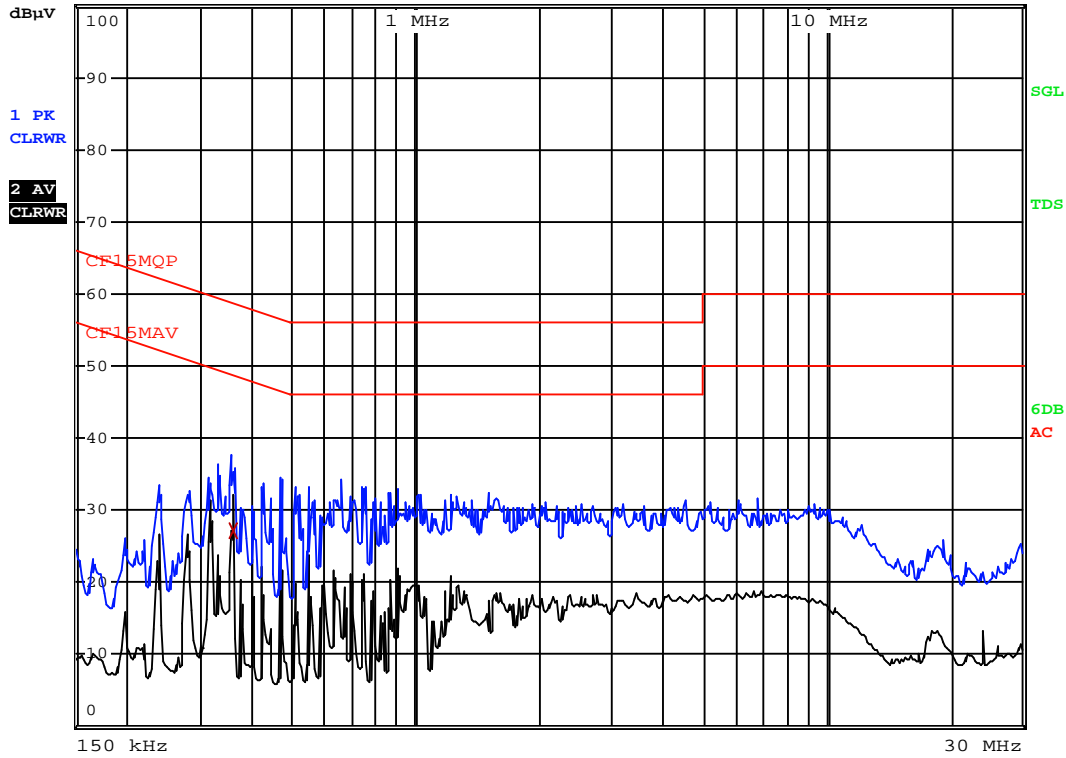


Model No.: AC403  
Worst Case: Alarm



RBW 9 kHz  
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 4.DEC.2013 17:16:29

Issuing Laboratory:  
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Model No.: AC403  
Worst Case: Alarm

EDIT PEAK LIST (Final Measurement Results)				
TRACE	FREQUENCY	LEVEL dB $\mu$ V		DELTA LIMIT dB
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
2	CISPR Average 357 kHz	27.27 L1		-21.52

Date: 4.DEC.2013 17:16:02



Issuing Laboratory:  
**Intertek Testing Services Hong Kong Limited**

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



**EXHIBIT 5  
EQUIPMENT LIST**

Issuing Laboratory:  
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



## 5.0 Equipment List

### 1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Biconical Antenna
Registration No.	EW-2666	EW-2188	EW-2512
Manufacturer	R&S	AGILENTTECH	EMCO
Model No.	ESC17	E4407B	3104C
Calibration Date	Jun. 20, 2013	Nov. 5, 2012	Jun. 25, 2013
Calibration Due Date	Jun. 20, 2014	Feb. 5, 2014	Dec. 25, 2014

Equipment	Log Periodic Antenna	Double Ridged Guide Antenna	Spectrum Analyzer 40GHz
Registration No.	EW-0446	EW-1015	EW-2253
Manufacturer	EMCO	EMCO	R&S
Model No.	3146	3115	FSP40
Calibration Date	Apr. 30, 2013	Mar. 5, 2013	Apr. 24, 2013
Calibration Due Date	Oct. 30, 2014	Sep. 5, 2014	Apr. 24, 2014

Equipment	Broad-Band Horn Antenna
Registration No.	EW-1679
Manufacturer	SCHWARZBECK
Model No.	BBHA9170
Calibration Date	Apr. 01. 2013
Calibration Due Date	Apr. 01. 2014

### 2) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN
Registration No.	EW-2666	EW-2501
Manufacturer	R&S	R&S
Model No.	ESC17	ENV-216
Calibration Date	Jun. 20, 2013	Nov. 30, 2012
Calibration Due Date	Jun. 20, 2014	Nov. 30, 2013

**END OF TEST REPORT**