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TEST REPORT

Report Number: 15081213HKG-001

Application
for

Class II Permissive Change of 47 CFR Part 15 Certification
Modification of Certified Product – C2PC of RSS-247 Issue 1 Equipment
Certification

Digital Video Baby Monitor - Parent Unit

FCC ID: N7TAC1100R

IC: 5786A-AC1100R

Prepared and Checked by:

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November 03, 2015

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GENERAL INFORMATION

Applicant Name:	Angelcare Monitors Inc.
Applicant Address:	9975, Av. De Catania Local B, Brossard, Quebec, J4Z 3V6, Canada
FCC Specification Standard:	FCC Part 15, October 1, 2014 Edition
FCC ID:	N7TAC1100R
FCC Model(s):	AC1101, AC1120, AC1100
IC Specification Standard:	RSS-247 Issue 1, May 2015 RSS-Gen Issue 4, November 2014
IC:	5786A-AC1100R
IC HVIN:	AC1100-P, AC1120-P, AC1101-P
IC PMN:	Digital Video Baby Monitor
Type of EUT:	Spread Spectrum Transmitter
Description of EUT:	Digital Video Baby Monitor - Parent Unit
Serial Number:	N/A
Sample Receipt Date:	August 27, 2015
Date of Test:	August 27, 2015 to September 05, 2015
Report Date:	November 03, 2015
Environmental Conditions:	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-247/ RSS-Gen [#] Section	Results	Details see section
Out of Band Antenna Conducted Emission	15.247(d)	5.5	Pass	4.6
Radiated Emission in Restricted Bands and Spurious Emissions	15.247(d) & 15.209	8.10 [#]	Pass	4.8
AC Power Line Conducted Emission	15.207	8.8 [#]	Pass	4.9

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, 2014 Edition
RSS-247 Issue 1, May 2015
RSS-Gen Issue 4, November 2014

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EXHIBIT 2 GENERAL DESCRIPTION

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2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a 2.4GHz Frequency Hopping Spread Spectrum Parent Unit of Video Baby Monitor. It operates at frequency range of 2404.125MHz to 2464.875MHz, and it uses 19 channels in a clear RF environment and 16 channels in a RF interference environment. The EUT is powered by a 100-240VAC to 7.5VDC 0.5A AC adaptor or 3 x "AAA" size "Ni-MH" type rechargeable battery (1.2V 600mAh).

For FCC, the Model(s): AC1120 and AC1101 are the same as the Model: AC1100 in electronics/electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are model number to be sold for marketing purpose.

For IC, the Model(s): AC1100-P, AC1120-P and AC1101-P are the same as the Model: AC1100 in electronics/electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only difference between these models is model number for marketing purpose.

The antenna(s) used in the EUT is integral, and the test sample is a prototype.

The circuit description and frequency hopping algorithm are 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 (2014). Preliminary radiated scans and all radiated measurements were performed in radiated emission 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. Antenna port conducted measurements were performed according to ANSI C63.10 (2013). All other measurements were made in accordance with the procedures in 47 CFR Part 2.

2.3 Test Facility

The radiated emission test site and antenna port conducted measurement facility used to collect the radiated data and conductive data are at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been fully placed on file with FCC and Industry Canada.

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EXHIBIT 3 SYSTEM TEST CONFIGURATION

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3.0 System Test Configuration

3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup to transmit / receive continuously 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.

The Baby Unit was powered by a fully charged battery or with a charger.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the base unit attached to peripherals, they were connected and operational (as typical as possible). The parent unit was remotely located as far from the antenna and the base as possible to ensure full power transmission from the baby unit. Else, the base was wired to transmit full power with modulation.

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 were 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 is subject to FCC Part Section 15.109 Limits.

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For FCC, RF module for parent unit of AC1100 is identical with original/previous granted model AC1100. Therefore conducted emission measurement test items are skipped.

For IC, RF module for parent unit of AC1100-P is identical with original/previous granted model AC1100-P. Therefore conducted emission measurement test items are skipped.

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3.1 Justification - Cont'd

Detector function for radiated emissions was in peak mode. Average readings, when required, were 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 4.8.3.

Determination of pulse desensitization was made according to *Hewlett Packard Application Note 150-2, Spectrum Analysis... Pulsed RF*. The effective period (T_{eff}) was referred to Exhibit 4.8.3. With the resolution bandwidth 1MHz and spectrum analyzer IF bandwidth 3dB, the pulse desensitization factor was 0dB.

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 with 2 types of adaptors for three series have been tested, and the worst case data is included in this report.

All three model series have been tested, only the worst case is respresented in this report.

3.2 EUT Exercising Software

The EUT exercise program (if any) used during radiated and conducted 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 (provided with the unit) was used to power the device. Their description are listed below.

- (1) An AC adaptor (100-240VAC to 7.5VDC 0.5A, Model: T07505U002) (Supplied by Client)
- (2) Parent Battery: 3 x "AAA" size "Ni-MH" type rechargeable batteries (1.2V 600mAh) (Supplied by Client)

Description of Accessories:

- (1) Angelcare Baby Unit, Model: AC1100, FCC ID: N7TAC1100T (Supplied by Client)

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test at a level of confidence of 95% has been considered. The values of the Measurement uncertainty for radiated emission test and RF conducted measurement test are $\pm 5.3\text{dB}$ and $\pm 0.99\text{dB}$ respectively. The value of the Measurement uncertainty for conducted emission test is $\pm 4.2\text{dB}$.

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.

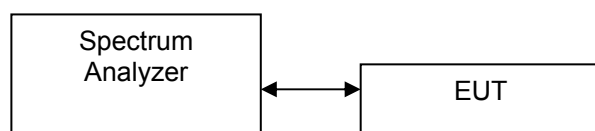
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EXHIBIT 4 TEST RESULTS

4.0 Test Results

RF Conducted measurement Test Setup by a Spectrum Analyzer.

The figure below shows the test setup, which is utilized to make these measurements.



4.1 Out of Band Conducted Emissions

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission.

The plot(s) of bandedge compliance is shown the worst-case which has been already considered between enable and disable the hopping function of the EUT.

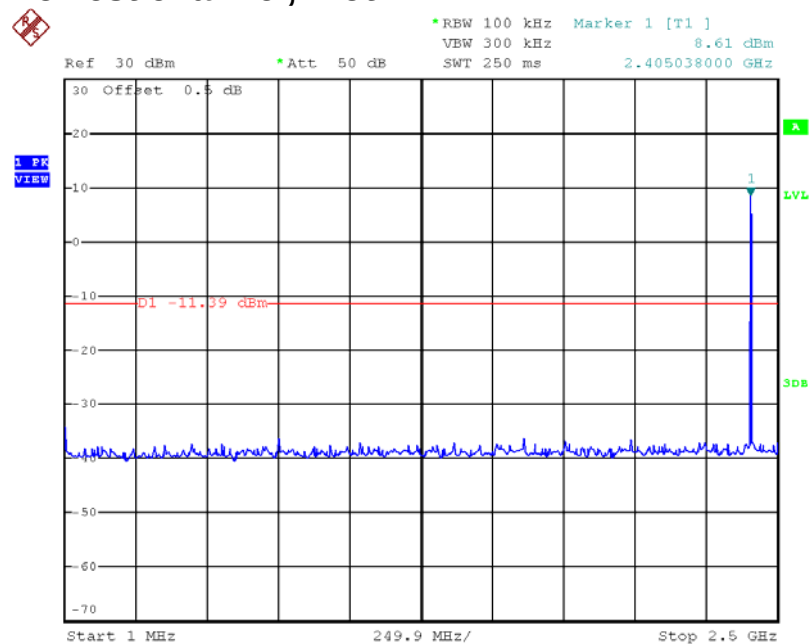
Limits:

All spurious emission and up to the tenth harmonic was measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The plots of out of band conducted emissions and bandedge are saved as below.

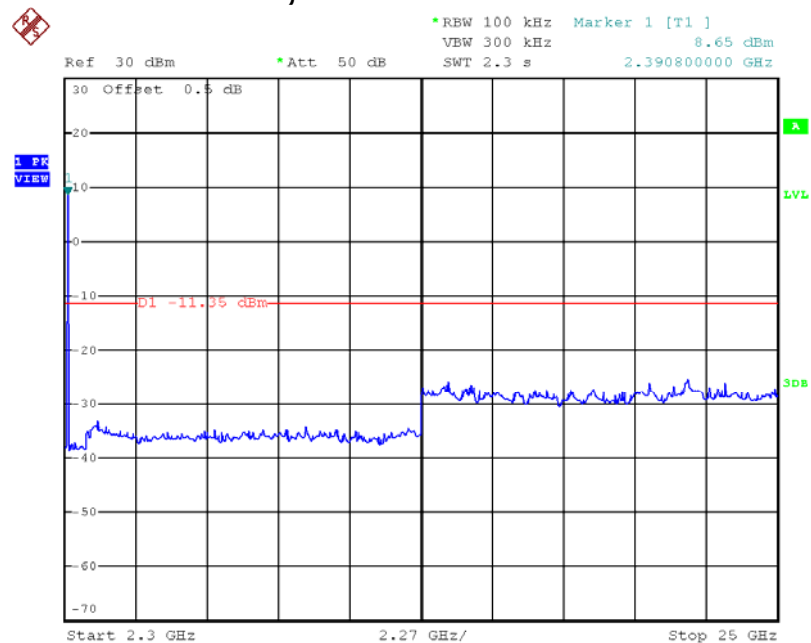
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Plots of out of band conducted emissions Lowest channel, Plot 1



Date: 9.SEP.2015 12:04:42

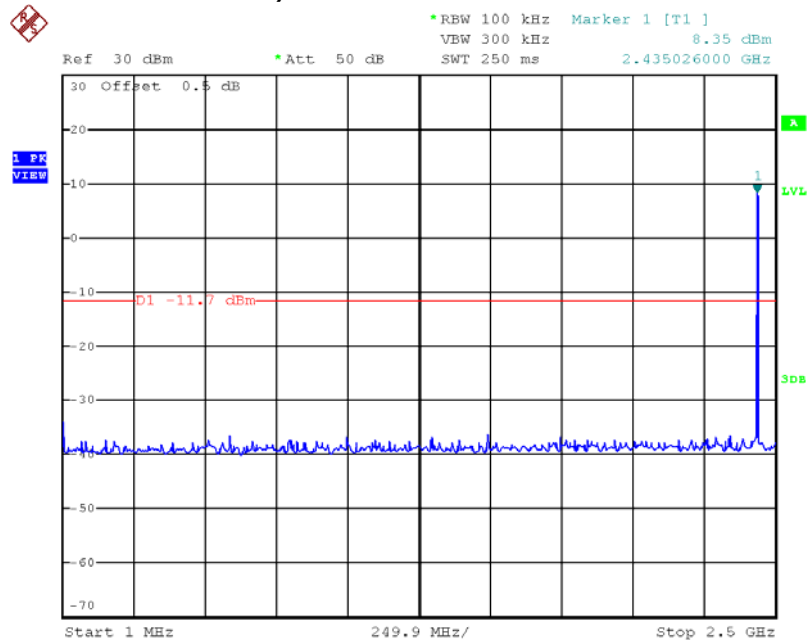
Lowest channel, Plot 2



Date: 9.SEP.2015 12:05:54

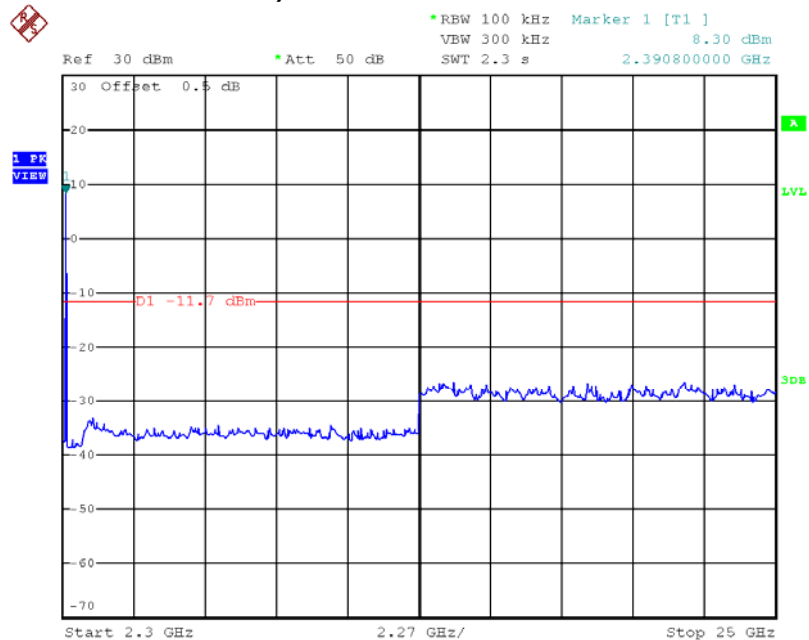
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Plots of out of band conducted emissions Middle channel, Plot 1



Date: 9.SEP.2015 12:08:15

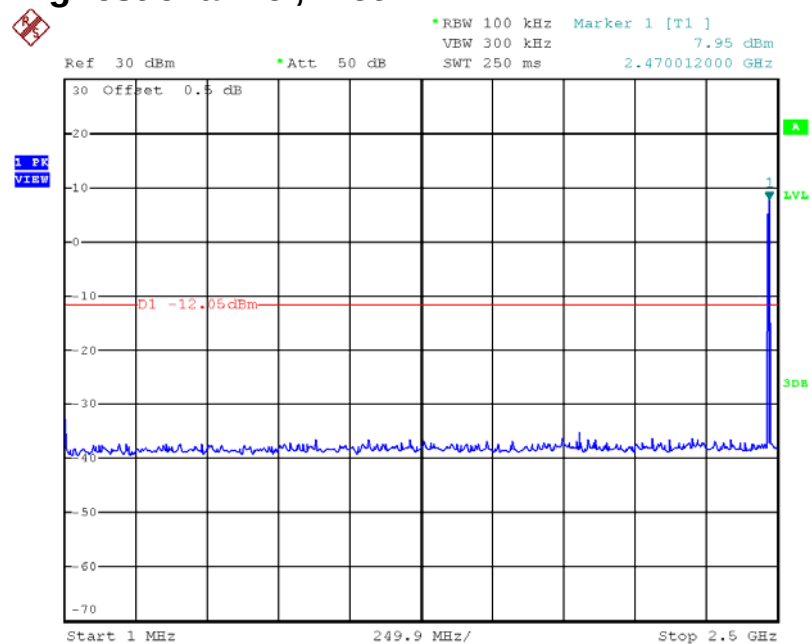
Middle channel, Plot 2



Date: 9.SEP.2015 12:07:24

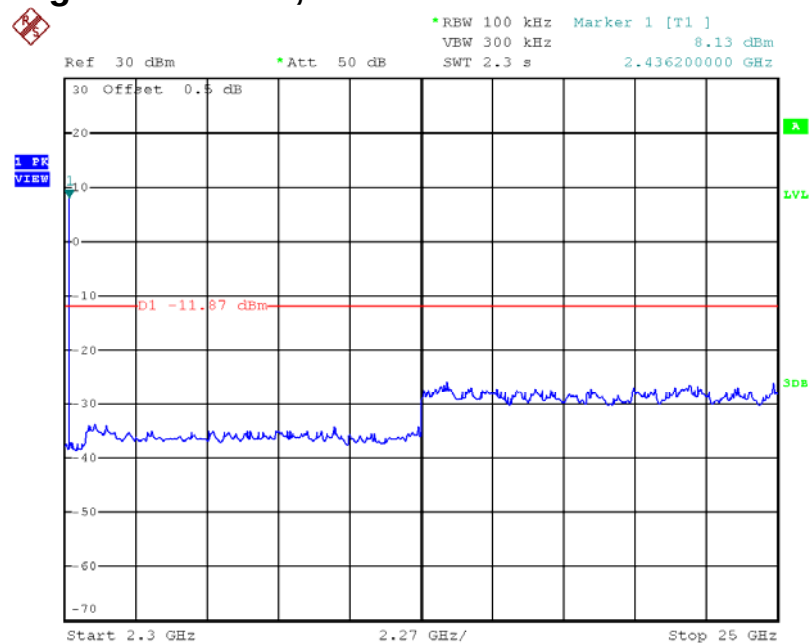
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Plots of out of band conducted emissions Highest channel, Plot 1



Date: 9.SEP.2015 12:11:38

Highest channel, Plot 2



Date: 9.SEP.2015 12:13:07

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4.2 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 μ V/m
 RA = Receiver Amplitude (including preamplifier) in dB μ 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 μ 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 μ V/m. This value in dB μ V/m was converted to its corresponding level in μ 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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4.3 Transmitter Radiated Emissions in Restricted Bands and Spurious Emissions

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.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

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4.3.1 Radiated Emission Configuration Photograph

Worst Case Restricted Band Radiated Emission
at

326.612 MHz

The worst case radiated emission configuration photographs are attached in the Appendix and saved with filename: config photos.pdf

4.3.2 Radiated Emission Data

The data in tables 1-5 list the significant emission frequencies, the limit and the margin of compliance.

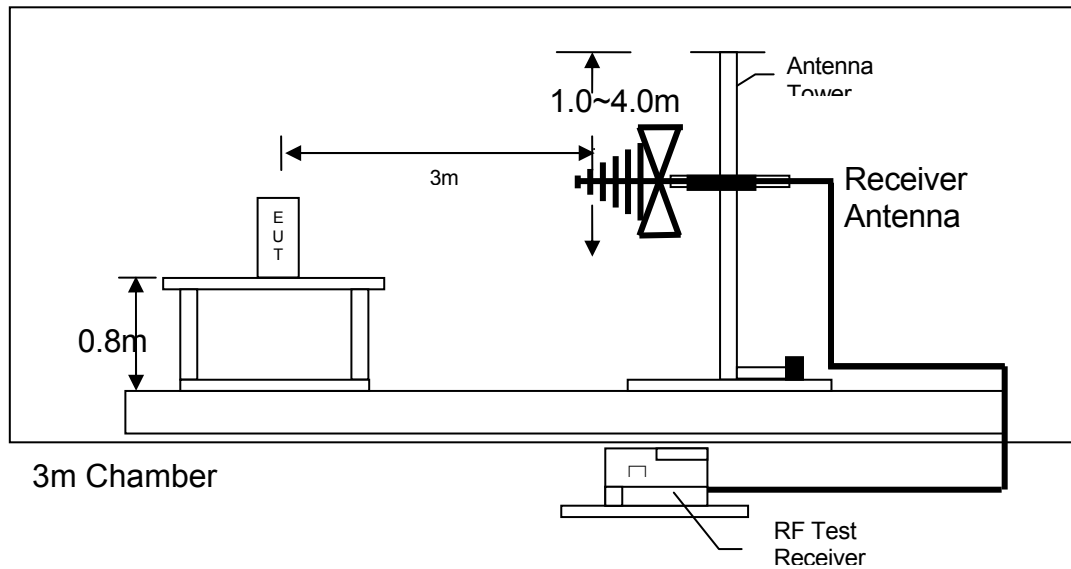
Judgement -

Passed by 5.5 dB margin

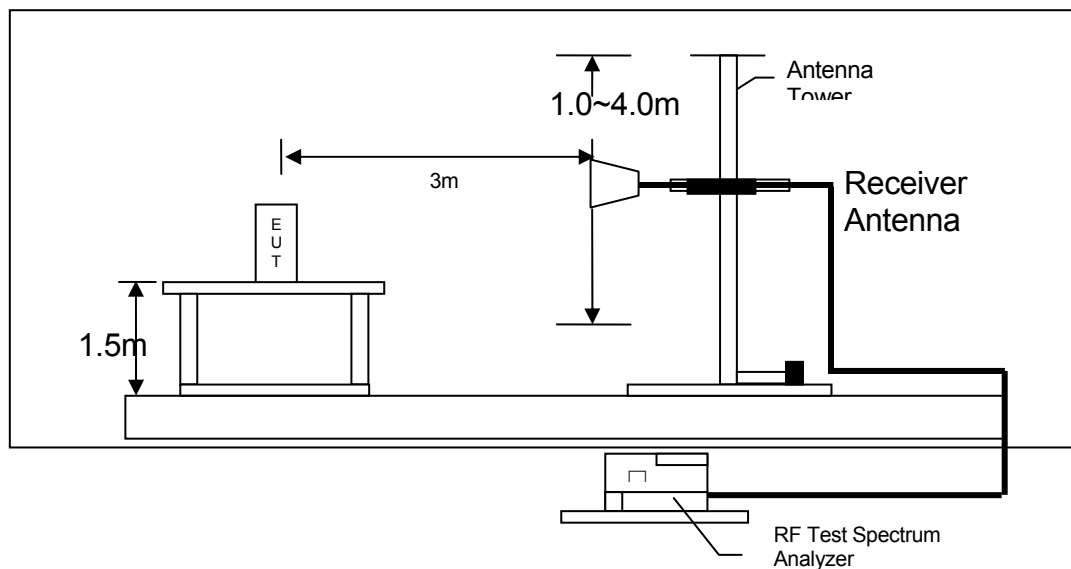
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4.3.3 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions upto 1GHz



Test setup of radiated emissions above 1GHz

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Mode: TX-Channel 01

Table 1

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
<i>H</i>	<i>2390.000</i>	<i>65.1</i>	<i>33</i>	<i>29.4</i>	<i>61.5</i>	<i>39.9</i>	<i>21.6</i>	<i>54.0</i>	<i>-32.4</i>
<i>H</i>	<i>4808.250</i>	<i>60.4</i>	<i>33</i>	<i>34.9</i>	<i>62.3</i>	<i>39.9</i>	<i>22.4</i>	<i>54.0</i>	<i>-31.6</i>
<i>H</i>	<i>12020.625</i>	<i>50.1</i>	<i>33</i>	<i>40.5</i>	<i>57.6</i>	<i>39.9</i>	<i>17.7</i>	<i>54.0</i>	<i>-36.3</i>

Remark: Average measurement method is used according to ANSI C63.10.

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
<i>H</i>	<i>2390.000</i>	<i>65.1</i>	<i>33</i>	<i>29.4</i>	<i>61.5</i>	<i>74.0</i>	<i>-12.5</i>
<i>H</i>	<i>4808.250</i>	<i>60.4</i>	<i>33</i>	<i>34.9</i>	<i>62.3</i>	<i>74.0</i>	<i>-11.7</i>
<i>H</i>	<i>12020.625</i>	<i>50.1</i>	<i>33</i>	<i>40.5</i>	<i>57.6</i>	<i>74.0</i>	<i>-16.4</i>

Remark: Peak detector is used for the emission measurement.

- 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-Gen Section 8.10.

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Mode: TX-Channel 11

Table 2

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
<i>H</i>	4869.000	61.9	33	34.9	63.8	39.9	23.9	54.0	-30.1
<i>H</i>	7303.500	48.8	33	37.9	53.7	39.9	13.8	54.0	-40.2
<i>H</i>	12172.500	50.0	33	40.5	57.5	39.9	17.6	54.0	-36.4

Remark: Average measurement method is used according to ANSI C63.10.

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
<i>H</i>	4869.000	61.9	33	34.9	63.8	74.0	-10.2
<i>H</i>	7303.500	48.8	33	37.9	53.7	74.0	-20.3
<i>H</i>	12172.500	50.0	33	40.5	57.5	74.0	-16.5

Remark: Peak detector is used for the emission measurement.

- 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-Gen Section 8.10.

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Mode: TX-Channel 19

Table 3

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
<i>H</i>	<i>2483.500</i>	<i>64.8</i>	<i>33</i>	<i>29.4</i>	<i>61.2</i>	<i>39.9</i>	<i>21.3</i>	<i>54.0</i>	<i>-32.7</i>
<i>H</i>	<i>4929.750</i>	<i>56.4</i>	<i>33</i>	<i>34.9</i>	<i>58.3</i>	<i>39.9</i>	<i>18.4</i>	<i>54.0</i>	<i>-35.6</i>
<i>H</i>	<i>7394.625</i>	<i>48.6</i>	<i>33</i>	<i>37.9</i>	<i>53.5</i>	<i>39.9</i>	<i>13.6</i>	<i>54.0</i>	<i>-40.4</i>
<i>H</i>	<i>12324.375</i>	<i>49.8</i>	<i>33</i>	<i>40.5</i>	<i>57.3</i>	<i>39.9</i>	<i>17.4</i>	<i>54.0</i>	<i>-36.6</i>

Remark: Average measurement method is used according to ANSI C63.10.

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
<i>H</i>	<i>2483.500</i>	<i>64.8</i>	<i>33</i>	<i>29.4</i>	<i>61.2</i>	<i>74.0</i>	<i>-12.8</i>
<i>H</i>	<i>4929.750</i>	<i>56.4</i>	<i>33</i>	<i>34.9</i>	<i>58.3</i>	<i>74.0</i>	<i>-15.7</i>
<i>H</i>	<i>7394.625</i>	<i>48.6</i>	<i>33</i>	<i>37.9</i>	<i>53.5</i>	<i>74.0</i>	<i>-20.5</i>
<i>H</i>	<i>12324.375</i>	<i>49.8</i>	<i>33</i>	<i>40.5</i>	<i>57.3</i>	<i>74.0</i>	<i>-16.7</i>

Remark: Peak detector is used for the emission measurement.

- 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-Gen Section 8.10.

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Mode: Video Receiving

Table 4

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
V	49.706	39.3	16	11.0	34.3	40.0	-5.7
V	120.276	34.5	16	14.0	32.5	43.5	-11.0
V	126.328	35.6	16	14.0	33.6	43.5	-9.9
V	131.757	36.7	16	14.0	34.7	43.5	-8.8
V	180.648	28.0	16	20.0	32.0	43.5	-11.5
V	203.523	33.4	16	16.0	33.4	43.5	-10.1
V	263.819	27.9	16	21.0	32.9	46.0	-13.1
H	277.958	30.5	16	22.0	36.5	46.0	-9.5
H	302.363	28.4	16	22.0	34.4	46.0	-11.6
H	326.612	32.5	16	24.0	40.5	46.0	-5.5
H	408.787	23.7	16	24.0	31.7	46.0	-14.3
V	455.905	27.3	16	26.0	37.3	46.0	-8.7
H	508.060	25.3	16	27.0	36.3	46.0	-9.7
H	556.558	22.7	16	28.0	34.7	46.0	-11.3
V	603.539	22.6	16	29.0	35.6	46.0	-10.4
V	845.807	22.3	16	31.0	37.3	46.0	-8.7

- 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-Gen Section 8.10.

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4.3.4 Transmitter Duty Cycle Calculation

$$\begin{aligned}\text{Duty Cycle (DC)} &= \text{Maximum On time in } 100\text{ms}/100\text{ms} \\ &= (0.112\text{ms} \times 9)/100\text{ms}\end{aligned}$$

$$\begin{aligned}\text{Average Factor (AF)} &= 20 \log (\text{DC}) \\ &= 20 * \log (0.01008) \\ &= -39.9\text{dB}\end{aligned}$$

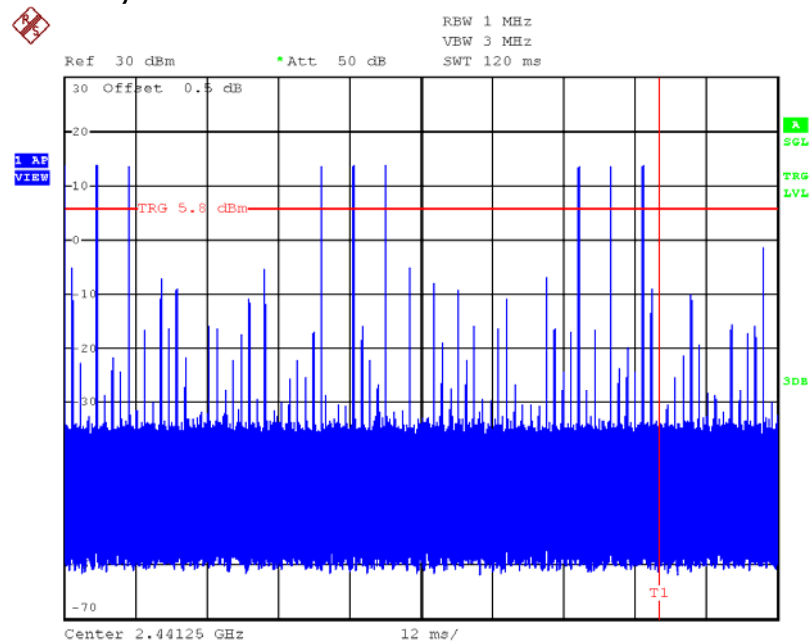
The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SPAN function on the analyzer was set to ZERO. The transmitter ON time was determined from the resultant time-amplitude display.

Please refer to the attached plot(s) for more details.

INTERTEK TESTING SERVICES

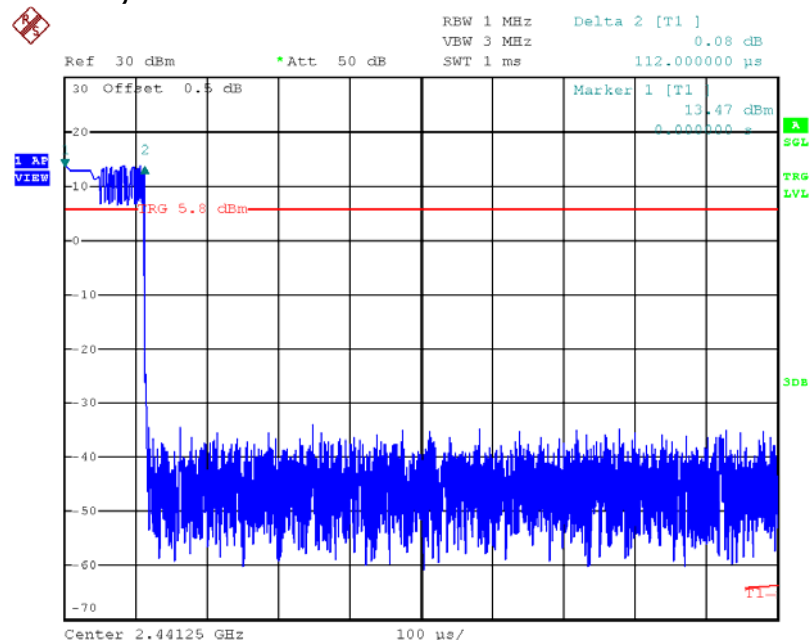
Plots of transmitter On time

Plot A, Tx time in 100ms



Date: 9.SEP.2015 12:47:17

Plot B, Tx on time



Date: 9.SEP.2015 12:47:43

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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

4.5375 MHz

The worst case line conducted configuration photographs are attached in the Appendix and saved with filename: config photos.pdf

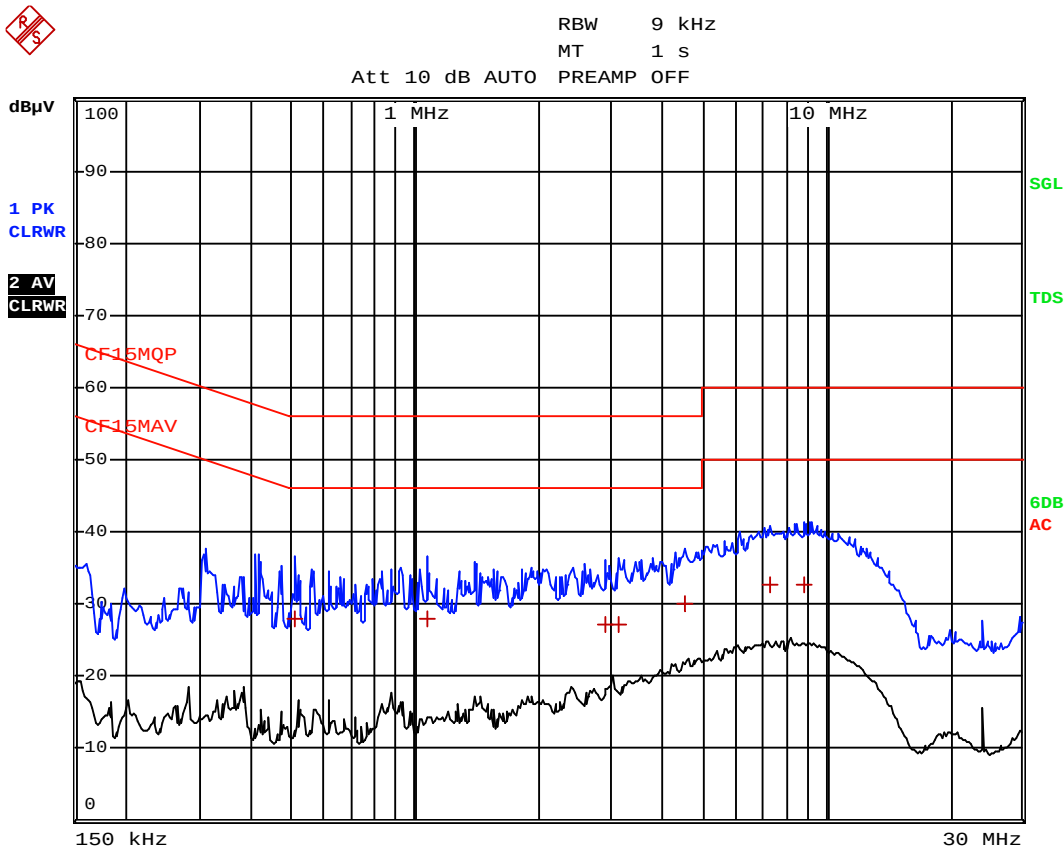
4.4.2 AC Power Line Conducted Emission Data

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

Passed by 25.92 dB margin compare with quasi-peak limit

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Worst Case: TX Mode



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Worst Case: TX Mode

EDIT PEAK LIST (Final Measurement Results)					
Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
TRACE	FREQUENCY	LEVEL	dBμV	DELTA	LIMIT dB
1 Quasi Peak	510 kHz	27.86	L1	-28.14	
1 Quasi Peak	1.0725 MHz	27.98	N	-28.02	
1 Quasi Peak	2.904 MHz	27.24	N	-28.75	
1 Quasi Peak	3.1245 MHz	27.28	L1	-28.71	
1 Quasi Peak	4.5375 MHz	30.07	N	-25.92	
1 Quasi Peak	7.314 MHz	32.74	N	-27.25	
1 Quasi Peak	8.8485 MHz	32.56	L1	-27.43	

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EXHIBIT 5 EQUIPMENT LIST

INTERTEK TESTING SERVICES

5.0 Equipment List

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Biconical Antenna	Spectrum Analyzer
Registration No.	EW-2666	EW-0571	EW-2253
Manufacturer	R&S	EMCO	R&S
Model No.	ESCI7	3104C	FSP40
Calibration Date	May 13, 2015	Jun. 23, 2015	May 27, 2015
Calibration Due Date	May 13, 2016	Dec. 23, 2016	May 27, 2016

Equipment	Double Ridged Guide Antenna	Broad-Band Horn Antenna with frequency range 14G - 40GHz	Log Periodic Antenna
Registration No.	EW-1133	EW-1679	EW-0446
Manufacturer	EMCO	SCHWARZBECK	EMCO
Model No.	3115	BBHA9170	3146
Calibration Date	Apr. 30, 2014	Jun. 10, 2015	Nov. 10, 2014
Calibration Due Date	Oct. 30, 2015	Jun. 10, 2016	May 10, 2016

2) Conductive Measurement Test

Equipment	Spectrum Analyzer
Registration No.	EW-2249
Manufacturer	R&S
Model No.	FSP30
Calibration Date	Nov. 19, 2014
Calibration Due Date	Nov. 19, 2015

3) Conducted Emission Test

Equipment	EMI Test Receiver	LISN
Registration No.	EW-2500	EW-2874
Manufacturer	R&S	R&S
Model No.	ESCI	ENV-216
Calibration Date	Nov. 06, 2014	Dec. 08, 2014
Calibration Due Date	Nov. 06, 2015	Dec. 08, 2015

END OF TEST REPORT