



Henan Taide Electronic Technology Co., Ltd.

Application
For
Certification

FCC ID: 2AC7RCAMIPC07

Wireless IP Camera

Model: CAM-IP-HDW

2.4GHz Transceiver

Report No.: 140909021SZN-002

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-01-13]

Prepared and Checked by:

Approved by:

Sign on file

Robert Li
Project Engineer

Andy Yan
Senior Project Engineer
Date: 21 October 2014

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF No.: FCC 15C_TX_b

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INTERTEK TESTING SERVICES

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MEASUREMENT/TECHNICAL REPORT

Henan Taide Electronic Technology Co., Ltd. - MODEL: CAM-IP-HDW

FCC ID: 2AC7RCAMIPC07

This report concerns (check one :) Original Grant X Class II Change _____

Equipment Type: DXX - Part 15 Low Power Communication Device Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No X

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes _____ No X

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-01-13 Edition] provision.

Report prepared by:

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List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Report	20dB BW Plot	bw.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Letter of Agency	agency.pdf
Cover Letter	Request for Permanent Confidentiality	Request.pdf
Cover Letter	Certification agreement	Agreement.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a Wireless IP Camera with Bluetooth function operating at 2402-2480MHz, 40 channels with 2MHz channel spacing. The EUT was powered by AC/DC adapter with input of 100-240Vac, 50/60Hz, 0.5A and output of 5Vdc, 2000mA. For more detailed features description, please refer to the user's manual.

Bluetooth Version: Bluetooth 4.0

Antenna Type: Integral antenna

Modulation Type: GFSK

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

This is an application for certification of the Wireless IP Camera Bluetooth 4.0 function, and for the WIFI function, please refer to the report 140909021SZN-001

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

1.4 Test Facility

The Semi-anechoic chamber and shielding room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

EXHIBIT 2
SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The EUT was powered by AC/DC Adapter(Input:120Vac,60Hz,Output:5Vdc,2000mA) during the testing.

All packets in modulation type GFSK were tested, and only the worst data was reported in this report.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

The EUT exercise program (provided by client) used during testing was designed to exercise the various system components in a manner similar to a typical use.

2.3 Special Accessories

No special accessories used.

2.4 Equipment Modification

Any modifications installed previous to testing by Henan Taide Electronic Technology Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd Kejiyuan Branch.

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2.5 Measurement Uncertainty

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

2.6 Support Equipment List and Description

Description	Manufacturer	Model No.
USB Cable	Henan Taide Electronic Technology Co.,Ltd	Unshielded, Length 300cm
TF Card	SanDisk	8G
Adapter	Henan Taide Electronic Technology Co.,Ltd	JK050200-S04USA Input: AC 100~240V, 50/60Hz, 0.5A; Output: DC 5.0V, 2000mA
Iphone 5S	Apple	A1518

EXHIBIT 3
EMISSION RESULTS

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3.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

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3.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

3.1.1 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 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:

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

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.

RA = 62.0 dB μ V
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
AV = -10 dB
FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 dB μ V/m

Level in μ V/m = Common Antilogarithm [(32 dB μ V/m)/20] = 39.8 μ V/m

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3.1.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

3.1.3 Radiated Emissions

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Worst Case Radiated Emission
at
50.745 MHz

Judgement: Passed by 4.5 dB

TEST PERSONNEL:

Sign on file

Robert Li, Project Engineer
Typed/Printed Name

21 October 2014
Date

INTERTEK TESTING SERVICES

Applicant: Henan Taide Electronic Technology Co., Ltd. Date of Test: 21 October 2014
Model: CAM-IP-HDW
Sample: 1/1
Worst Case Operating Mode: BT Link

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	97.920	34.7	20.0	10.1	24.8	43.5	-18.7
Horizontal	158.040	39.8	20.0	10.7	30.5	43.5	-13.0
Horizontal	236.610	33.5	20.0	13.3	26.8	46.0	-19.2
Vertical	50.745	45.8	20.0	9.7	35.5	40.0	-4.5
Vertical	97.415	41.0	20.0	10.1	31.1	43.5	-12.4
Vertical	157.070	39.0	20.0	10.6	29.6	43.5	-13.9

NOTES: 1. Quasi-Peak detector is used except for others stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic 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. All emissions are below the QP limit.

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3.1.4 Transmitter Emissions (Radiated)

Worst Case Radiated Emission
at
7206.000 MHz

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 7.6 dB

TEST PERSONNEL:

Sign on file

Robert Li, Project Engineer
Typed/Printed Name

21 October 2014
Date

INTERTEK TESTING SERVICES

Applicant: Henan Taide Electronic Technology Co., Ltd. Date of Test: 21 October 2014
Model: CAM-IP-HDW
Sample: 1/1
Worst Case Operating Mode: Transmit

Table 2

Radiated Emissions

(2402MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2402.000	105.2	36.7	28.5	97.0	114.0	-17.0
Horizontal	4804.000	59.5	36.7	28.5	51.3	74.0	-22.7
Horizontal	7206.000	58.9	36.1	33.1	55.9	74.0	-18.1
Horizontal	9608.000	41.6	36.2	37.8	43.2	74.0	-30.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2402.000	90.5	36.7	28.5	82.3	94.0	-11.7
Horizontal	4804.000	53.8	36.7	28.5	45.6	54.0	-8.4
Horizontal	7206.000	49.4	36.1	33.1	46.4	54.0	-7.6
Horizontal	9608.000	40.7	36.2	37.8	42.3	54.0	-11.7

- Notes:
1. Peak Detector Data unless otherwise stated. RBW=1MHz and VBW=3MHz for peak test value, RBW=1MHz and VBW=10Hz for average test value, RBW 3MHz is used for fundamental emission.
 2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

Test Engineer: Robert Li

INTERTEK TESTING SERVICES

Applicant: Henan Taide Electronic Technology Co., Ltd. Date of Test: 21 October 2014
Model: CAM-IP-HDW
Sample: 1/1
Worst Case Operating Mode: Transmit

Table 3

Radiated Emissions

(2442MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2442.000	104.7	36.7	28.5	96.5	114.0	-17.5
Horizontal	4884.000	59.4	36.7	28.5	51.2	74.0	-22.8
Horizontal	7326.000	58.5	36.1	33.1	55.5	74.0	-18.5
Horizontal	9768.000	43.8	36.2	37.8	45.4	74.0	-28.6

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2442.000	91.7	36.7	28.5	83.5	94.0	-10.5
Horizontal	4884.000	49.5	36.7	28.5	41.3	54.0	-12.7
Horizontal	7326.000	41.5	36.1	33.1	38.5	54.0	-15.5
Horizontal	9768.000	40.5	36.2	37.8	42.1	54.0	-11.9

- Notes: 1. Peak Detector Data unless otherwise stated. RBW=1MHz and VBW=3MHz for peak test value, RBW=1MHz and VBW=10Hz for average test value, RBW 3MHz is used for fundamental emission.
2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

Test Engineer: Robert Li

TRF No.: FCC 15C_TX_b
FCC ID: 2AC7RCAMIPC07

INTERTEK TESTING SERVICES

Applicant: Henan Taide Electronic Technology Co., Ltd.

Date of Test: 21 October 2014

Model: CAM-IP-HDW

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 4

Radiated Emissions

(2480MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2480.000	105.6	36.7	28.6	97.5	114.0	-16.5
Horizontal	4960.000	59.5	36.7	28.6	51.4	74.0	-22.6
Horizontal	7440.000	57.7	36.1	33.4	55.0	74.0	-19.0
Horizontal	9920.000	33.4	36.3	38.2	35.3	74.0	-38.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2480.000	92.6	36.7	28.6	84.5	94.0	-9.5
Horizontal	4960.000	46.4	36.7	28.6	38.3	54.0	-15.7
Horizontal	7440.000	38.6	36.1	33.4	35.9	54.0	-18.1
Horizontal	9920.000	32.3	36.3	38.2	34.2	54.0	-19.8

- Notes:
1. Peak Detector Data unless otherwise stated. RBW=1MHz and VBW=3MHz for peak test value, RBW=1MHz and VBW=10Hz for average test value, RBW 3MHz is used for fundamental emission.
 2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

Test Engineer: Robert Li

TRF No.: FCC 15C_TX_b
FCC ID: 2AC7RCAMIPC07

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3.2 Conducted Emission at Mains Terminal

3.2.1 Conducted Emissions Configuration Photograph

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

3.2.2 Conducted Emissions

Worst Case Conducted Configuration
At

0.690 MHz

Judgement: Passed by 8.8 dB margin

TEST PERSONNEL:

Sign on file

Robert Li, Project Engineer
Typed/Printed Name

21 October 2014
Date

INTERTEK TESTING SERVICES

Applicant: Henan Taide Electronic Technology Co., Ltd. Date of Test: 21 October 2014

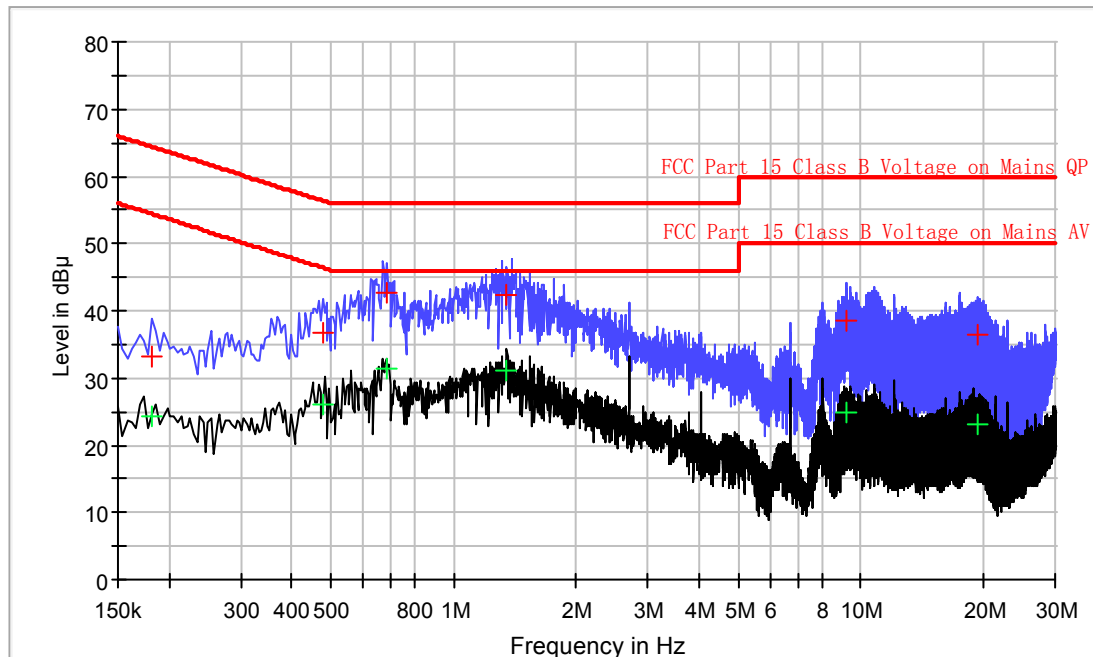
Model: CAM-IP-HDW

Sample: 1/1

Worst Case Operating Mode: BT Link

Phase: Live

Conducted Emission Test – FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.182000	33.3	L1	9.8	31.1	64.4
0.478000	36.6	L1	9.8	19.8	56.4
0.682000	42.8	L1	10.0	13.2	56.0
1.350000	42.3	L1	9.9	13.7	56.0
9.202000	38.4	L1	10.1	21.6	60.0
19.454000	36.5	L1	10.3	23.5	60.0

Result Table AV

Frequency (MHz)	Average (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.182000	24.2	L1	9.8	30.2	54.4
0.478000	26.0	L1	9.8	20.4	46.4
0.682000	31.3	L1	10.0	14.7	46.0
1.350000	31.1	L1	9.9	14.9	46.0
9.202000	24.9	L1	10.1	25.1	50.0
19.454000	23.1	L1	10.3	26.9	50.0

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Applicant: Henan Taide Electronic Technology Co., Ltd. Date of Test: 21 October 2014

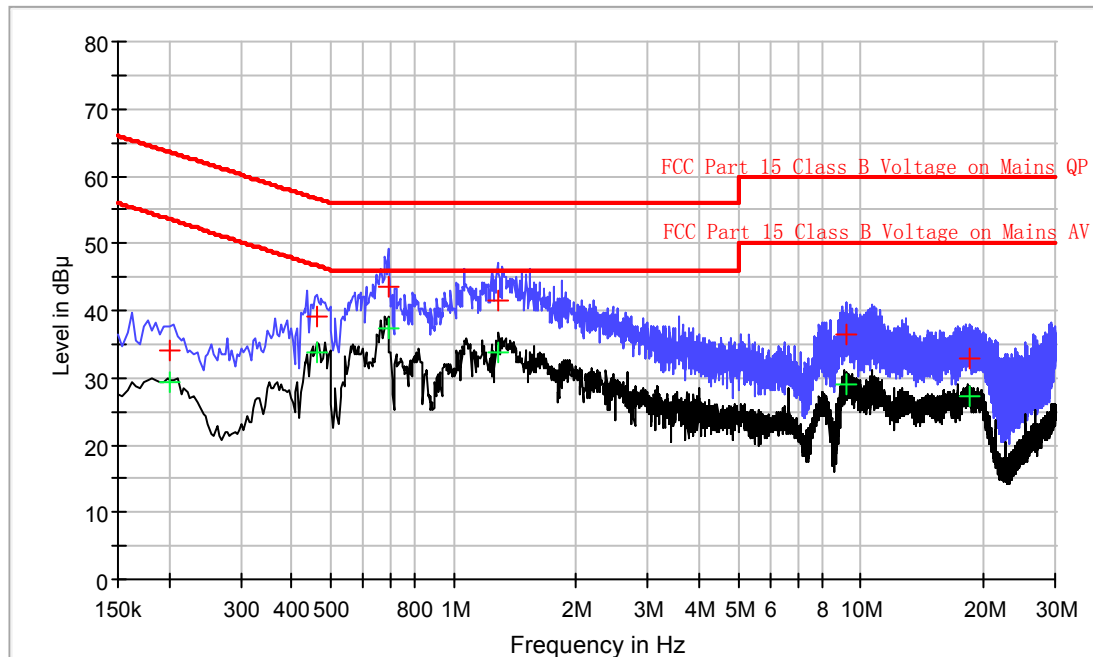
Model: CAM-IP-HDW

Sample: 1/1

Worst Case Operating Mode: BT Link

Phase: Neutral

Conducted Emission Test – FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.202000	34.1	N	10.1	29.4	63.5
0.462000	39.1	N	10.1	17.6	56.7
0.690000	43.6	N	10.2	12.4	56.0
1.282000	41.5	N	10.2	14.5	56.0
9.162000	36.4	N	10.4	23.6	60.0
18.562000	32.8	N	10.5	27.2	60.0

Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.202000	29.3	N	10.1	24.2	53.5
0.462000	33.7	N	10.1	13.1	46.7
0.690000	37.2	N	10.2	8.8	46.0
1.282000	33.8	N	10.2	12.2	46.0
9.162000	29.1	N	10.4	20.9	50.0
18.562000	27.3	N	10.5	22.7	50.0

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EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

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4.0 **Equipment Photographs**

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

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EXHIBIT 5

PRODUCT LABELLING

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5.0 **Product Labelling**

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

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6.0 **Technical Specifications**

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

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EXHIBIT 7

INSTRUCTION MANUAL

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7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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EXHIBIT 8

MISCELLANEOUS INFORMATION

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8.0 **Miscellaneous Information**

This miscellaneous information includes details of the measured bandedge, the test procedure and calculation of factor such as pulse desensitization.

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8.1 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: bandedge.pdf. From the plot, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

Peak Measurement

Bandedge compliance is determined by applying marker-delta method, i.e (Bandedge Plot).

(i) Lower channel 2402MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta
from the bandedge plot

$$\begin{aligned} &= 97.0\text{dB}\mu\text{V/m} - 48.5\text{ dB} \\ &= 48.5\text{dB}\mu\text{V/m} \end{aligned}$$

(ii) Upper channel 2480MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta
from the bandedge plot

$$\begin{aligned} &= 97.5\text{dB}\mu\text{V/m} - 61.7\text{dB} \\ &= 35.8\text{dB}\mu\text{V/m} \end{aligned}$$

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dB μ V/m (Peak Limit) and 54dB μ V/m (Average Limit).

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8.1 Bandedge Plot (cont'd)

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 excepted variations in temperature and supply voltage were considered.

Figure 8.1 Bandwidth

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8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. With a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

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8.3 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 - 2009.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode.

The frequency range scanned is 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 40 GHz, whichever is lower.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.

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8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.4 - 2009.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. Above 1000 MHz, a resolution bandwidth of 1 MHz (RBW 3MHz for fundamental emission) is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

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EXHIBIT 9

CONFIDENTIALITY REQUEST

INTERTEK TESTING SERVICES

9.0 **Confidentiality Request**

For electronic filing, the confidentiality request of the tested EUT is saved with filename: Confidential request.pdf.

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EXHIBIT 10 TEST EQUIPMENT LIST

INTERTEK TESTING SERVICES

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	28-Jun-14	28-Jun-15
SZ185-01	EMI Receiver	R&S	ESCI	100547	10-Mar-14	10-Mar-15
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	03-Sep-14	03-Sep-15
SZ061-08	Horn Antenna	ETS	3115	00092346	26-Oct-13	26-Oct-14
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	29-Apr-14	29-Apr-15
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	10-Mar-14	10-Mar-15
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	10-Mar-14	10-Mar-15
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	19-Apr-14	19-Apr-15
SZ062-02	RF Cable	RADIAL	RG 213U	--	03-Jul-14	03-Jan-15
SZ062-04	RF Cable	RADIAL	RG 213U	--	03-Jul-14	03-Jan-15
SZ062-12	RF Cable	RADIAL	0.04-26.5GHz	--	09-Oct-14	09-Apr-15
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	21-May-14	21-May-15
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	09-Nov-13	09-Nov-14
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	09-Nov-13	09-Nov-14
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	09-Nov-13	09-Nov-14
SZ188-03	Shielding Room	ETS	RFD-100	4100	23-Aug-14	23-Aug-15