



ShenZhen Aoni Electronic Industry Co., Ltd.

Application
For
Certification

(FCC ID: Z63-AONI80601)

Bluetooth headset

Model: BT806, AF52

2.4GHz Transceiver

Report No.: 130312018SZN-001

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 [10-1-12]

Prepared and Checked by:

Approved by:

Sign on file

Chris Chen
Engineer

Billy Li
Supervisor
Date: 15 March 2013

- 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

**ShenZhen Aoni Electronic Industry Co., Ltd.
Model: BT806, AF52**

FCC ID: Z63-AONI80601

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 [10-1-12 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	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

EXHIBIT 1
GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a Bluetooth headset with Bluetooth function. The EUT was powered by DC 3.7V Internal rechargeable battery which can be charged by USB Port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK

The Model: AF52 is the same as the Model: BT806 in hardware aspect, the difference in model number serves as marketing strategy.

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 a transceiver for the Bluetooth headset which has Bluetooth function, and there is no corresponding unit for certification.

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 a 3.7 VDC fully charged Li-ion rechargeable battery charged by PC USB source and the PC was powered by an AC/DC Adapter with AC 120V, 60Hz input during the test.

All packets DH1, DH3 & DH5 mode in modulation type GFSK, $\pi/4$ -DQPSK and 8-DPSK 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

N/A

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2.4 Equipment Modification

Any modifications installed previous to testing by ShenZhen Aoni Electronic Industry 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.

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.
iPod	Apple	A1367
Laptop	Lenovo	T420
Aux Cable	Aoni	Unshielded, Length 155cm
USB Cable	Aoni	Unshielded, Length 85cm

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

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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
32.050 MHz

Judgement: Passed by 17.3 dB

TEST PERSONNEL:

Sign on file

Chris Chen, Engineer
Typed/Printed Name

15 March 2013
Date

INTERTEK TESTING SERVICES

Applicant: ShenZhen Aoni Electronic Industry Co., Ltd. Date of Test: 15 March 2013
Model: BT806
Sample: 1/1
Worst Case Operating Mode: Transmit with charging

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	31.455	24.0	20.0	18.2	22.2	40.0	-17.8
Horizontal	184.700	31.5	20.0	10.8	22.3	43.5	-21.2
Horizontal	355.920	30.8	20.0	16.0	26.8	46.0	-19.2
Vertical	32.050	25.0	20.0	17.7	22.7	40.0	-17.3
Vertical	113.905	30.1	20.0	8.1	18.2	43.5	-25.3
Vertical	419.940	27.5	20.0	15.9	23.4	46.0	-22.6

- 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 Spurious Emissions (Radiated)

Worst Case Radiated Emission
at
7440.000 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 18.8 dB

TEST PERSONNEL:

Sign on file

Chris Chen, Engineer
Typed/Printed Name

15 March 2013
Date

INTERTEK TESTING SERVICES

Applicant: ShenZhen Aoni Electronic Industry Co., Ltd. Date of Test: 15 March 2013
Model: BT806
Sample: 1/1
Worst Case Operating Mode: Transmit with charging

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	100.5	36.7	28.5	92.3	114.0	-21.7
Horizontal	4804.000	53.7	36.7	35.0	52.0	74.0	-22.0
Horizontal	7206.000	53.2	36.1	37.0	54.1	74.0	-19.9

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2402.000	100.5	36.7	28.5	30.1	62.2	94.0	-31.8
Horizontal	4804.000	53.7	36.7	35.0	30.1	21.9	54.0	-32.1
Horizontal	7206.000	53.2	36.1	37.0	30.1	24.0	54.0	-30.0

- Notes:
1. Peak Detector Data unless otherwise stated.
 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: Chris Chen

INTERTEK TESTING SERVICES

Applicant: ShenZhen Aoni Electronic Industry Co., Ltd. Date of Test: 15 March 2013
Model: BT806
Sample: 1/1
Worst Case Operating Mode: Transmit with charging

Table 3

Radiated Emissions

(2441MHz)

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	2441.000	101.6	36.7	28.5	93.4	114.0	-20.6
Horizontal	4882.000	52.6	36.7	35.0	50.9	74.0	-23.1
Horizontal	7323.000	53.0	36.1	37.0	53.9	74.0	-20.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2441.000	101.6	36.7	28.5	30.1	63.3	94.0	-30.7
Horizontal	4882.000	52.6	36.7	35.0	30.1	20.8	54.0	-33.2
Horizontal	7323.000	53.0	36.1	37.0	30.1	23.8	54.0	-30.2

- Notes:
1. Peak Detector Data unless otherwise stated.
 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: Chris Chen

TRF No.: FCC 15C_TX_b
FCC ID: Z63-AONI80601
Report No.: 130312018SZN-001

INTERTEK TESTING SERVICES

Applicant: ShenZhen Aoni Electronic Industry Co., Ltd. Date of Test: 15 March 2013
Model: BT806
Sample: 1/1
Worst Case Operating Mode: Transmit with charging

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)	Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2480.000	102.4	36.7	28.3	94.0	114.0	-20.0
Horizontal	4960.000	52.1	36.7	35.3	50.7	74.0	-23.3
Horizontal	7440.000	54.3	36.1	37.0	55.2	74.0	-18.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	2480.000	102.4	36.7	28.3	30.1	63.9	94.0	-30.1
Horizontal	4960.000	52.1	36.7	35.3	30.1	20.6	54.0	-33.4
Horizontal	7440.000	54.3	36.1	37.0	30.1	25.1	54.0	-28.9

- Notes: 1. Peak Detector Data unless otherwise stated.
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: Chris Chen

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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 Neutral-Conducted Configuration
At

1.362 MHz

Judgement: Passed by 12.0 dB margin

TEST PERSONNEL:

Sign on file

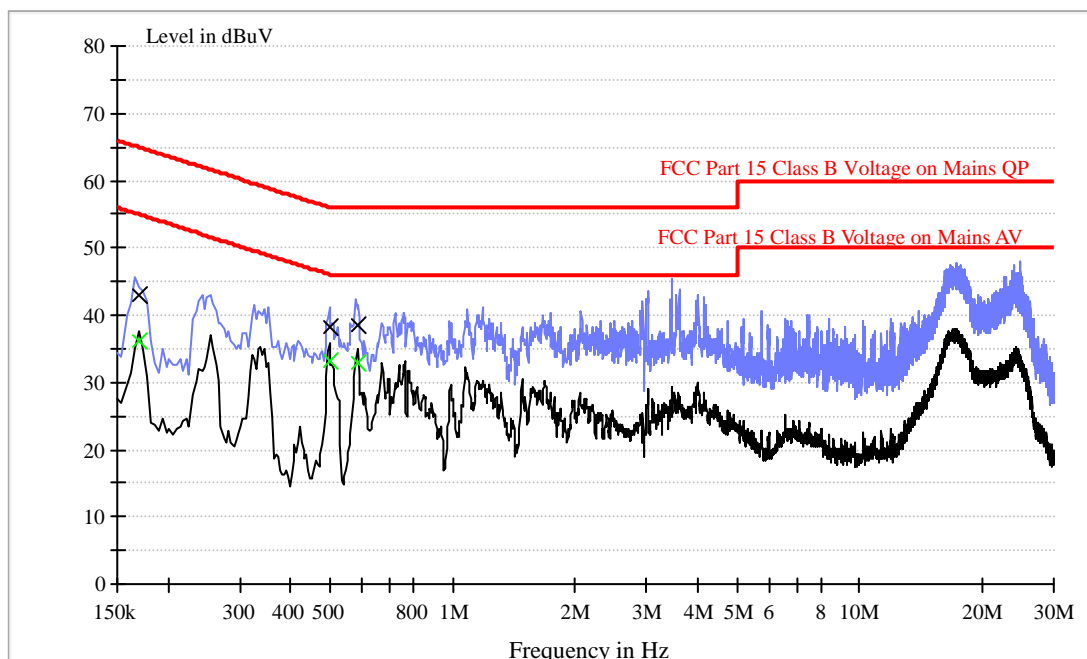
Chris Chen, Engineer
Typed/Printed Name

15 March 2013
Date

INTERTEK TESTING SERVICES

Applicant: ShenZhen Aoni Electronic Industry Co., Ltd. Date of Test: 15 March 2013
 Model: BT806
 Sample: 1/1
 Worst Case Operating Mode: Transmit with charging

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.170	43.1	L1	9.6	21.9	65.0
0.498	38.2	L1	9.6	17.8	56.0
0.586	38.6	L1	9.6	17.4	56.0
3.589	42.1	L1	9.7	13.9	56.0
18.256	43.1	L1	9.8	16.9	60.0
25.652	41.6	L1	10.4	18.4	60.0

Result Table AV

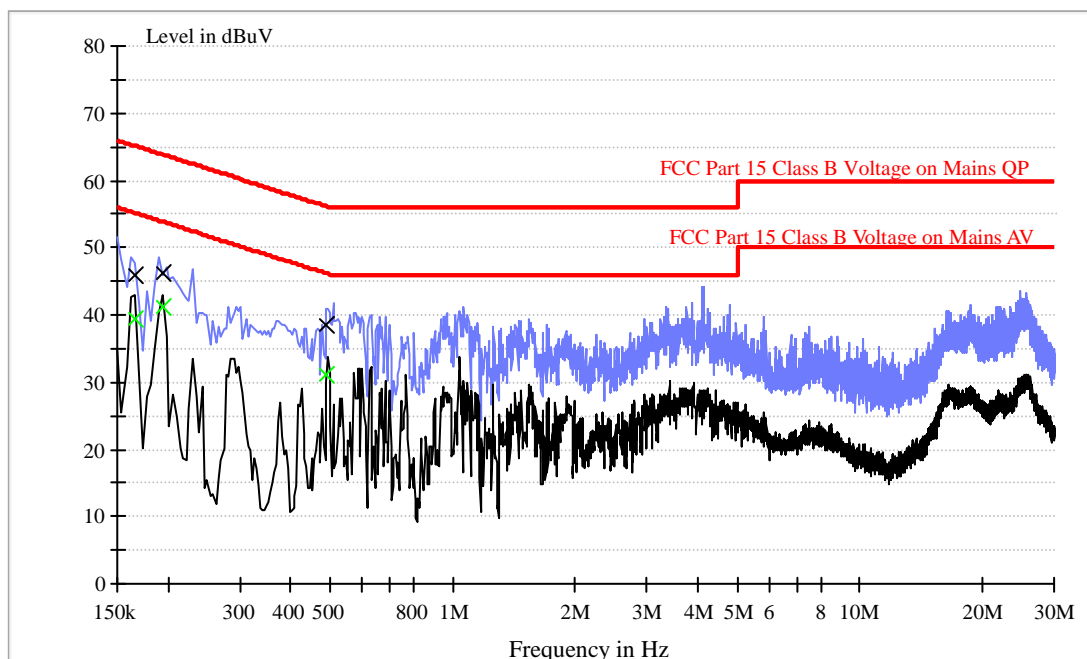
Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.170	36.2	L1	9.6	18.8	55.0
0.498	33.2	L1	9.6	12.8	46.0
0.586	32.8	L1	9.6	13.2	46.0
3.589	29.5	L1	9.7	16.5	46.0
18.256	36.2	L1	9.8	13.8	50.0
25.652	34.5	L1	10.4	15.5	50.0

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INTERTEK TESTING SERVICES

Applicant: ShenZhen Aoni Electronic Industry Co., Ltd. Date of Test: 15 March 2013
 Model: BT806
 Sample: 1/1
 Worst Case Operating Mode: Transmit with charging

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.166	45.8	N	9.7	19.4	65.2
0.194	46.2	N	9.6	17.7	63.9
0.486	38.5	N	9.6	17.7	56.2
1.362	37.1	N	9.8	18.9	56.0
3.146	35.8	N	9.7	20.2	56.0
27.685	37.4	N	10.4	22.6	60.0

Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.166	39.5	N	9.7	15.7	55.2
0.194	41.2	N	9.6	12.7	53.9
0.486	31.2	N	9.6	15.0	46.2
1.362	34.0	N	9.8	12.0	46.0
3.146	30.3	N	9.7	15.7	46.0
27.685	30.2	N	10.4	19.8	50.0

TRF No.: FCC 15C_TX_b
 FCC ID: Z63-AONI80601
 Report No.: 130312018SZN-001

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
= 92.3 dB μ v/m-50.9 dB
= 41.4 dB μ v/m

(ii) Upper channel 2480MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta
from the bandedge plot
= 94.0 dB μ v/m-61.2 dB
= 32.8 dB μ v/m

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. The effective period (T_{eff}) is approximately 625 μs for Bluetooth. With a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

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8.3 Transmitter Duty Cycle Calculation, FCC Rule 15.35(b, c)

Based on the Bluetooth Specification (BT version: 3.0 + EDR, disable AFH mode), transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length (single-slot and multi-slot). The maximum transmitter ON time for the Bluetooth is 625 μ s.

Each TX and RX time slot is 625 μ s in length. A TDD scheme is used where master and slave alternately transmit. For one period for a pseudo-random hopping through all 79 RF channels, for DH5:

Time of 1 hopset (5 TX slots + 1 RX slot) = 0.625 ms x 6 = 3.75 ms

Time of 1 cycle = 3.75 ms x 79 = 296.25 ms

Average factor = 20 log (3.125 / 100) = -30.1 dB

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8.4 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. 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.

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 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

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9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: 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	02-Jul-11	02-Jul-13
SZ185-01	EMI Receiver	R&S	ESCI	100547	22-Mar-12	22-Mar-13
SZ061-08	Horn Antenna	ETS	3115	00092346	11-Jul-12	11-Jul-13
SZ061-07	Horn Antenna	ETS	3160-09	00083067	11-Jul-12	11-Jul-13
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	22-Mar-12	22-Mar-13
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	22-Mar-12	22-Mar-13
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	22-Mar-12	22-Mar-13
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	03-Dec-12	03-Dec-13
SZ062-02	RF Cable	RADIALL	RG 213U	--	17-Sep-12	17-Mar-13
SZ062-06	RF Cable	RADIALL	0.04-26.5GHz	--	17-Sep-12	17-Mar-13
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	17-Sep-12	17-Mar-13
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	15-Jul-12	15-Jul-13
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	05-Nov-12	05-Nov-13
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	05-Nov-12	05-Nov-13
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	05-Nov-12	05-Nov-13
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Sep-10	16-Sep-13