Aug 2, 2010

SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.
NO., 187, 5th Binhai Road, Binhai Industrial Park, Economic and
Technological Development Zone, Wenzhou, Zhejiang China

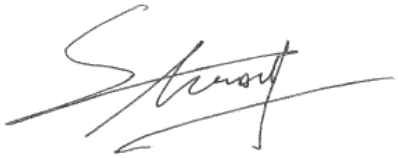
Dear FeiFei Xiang ,

Enclosed you will find your file copy of a Part 15 report (FCC ID: YGB-DV552325011).

For your reference, TCB will normally take another one week for reviewing the report. Approval will then be granted when no query is sorted.

Please contact me if you have any questions regarding the enclosed material.

Sincerely,



Shawn Xing
Assistant Manager

Enclosure

SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.

Application
For
Certification
(FCC ID: YGB-DV552325011)

Computer Peripheral

SZ10070062-1
Billy Li
Aug 2, 2010

TRF No.: FCC 15C_PC_a
FCC ID: YGB-DV552325011

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch
6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751 Website: www.china.intertek-etlsemko.com

LIST OF EXHIBITS

MEASUREMENT / TECHNICAL REPORT

SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD. – MODEL: DV552
Additional Model: DV163
FCC ID: YGB-DV552325011

Aug 2, 2010

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

Equipment Type: JBP-Class B Computing Device Peripheral

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 [10-1-09 Edition] provision.

Report prepared by:

Shawn Xing
Intertek Testing Services Shenzhen Ltd.
Kejiyuan Branch
6F, D Block, Huahan Building, Langshan Road
Nanshan District, Shenzhen, P. R. China
Phone: (86 755) 8601 6288
Fax: (86 755) 8601 6751

Table of Contents

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
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
ID Label / Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Letter of Agency	agency.pdf

EXHIBIT 1

GENERAL DESCRIPTION

1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a Digital Video Camera. The device can use USB port for data transfer mode (Download mode with SD Card & Internal flash and PC Camera mode) and powered by D.C. 6V (4 x AAA) batteries.

The Model: DV163 is the same as the tested Model: DV552 in hardware and software aspect. The only differences are the appearance, trade name and model no. for trading purpose.

1.2 Related Submittal(s) Grants

This is an application for certification of a computer peripheral.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). 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.

1.4 Test Facility

The Semi-anechoic chamber and conducted measurement facility used to collect the radiated data is **Interterk 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.

EXHIBIT 2

SYSTEM TEST CONFIGURATION

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 (2003).

The device is powered by 4 new AAA batteries during the test. The worst case 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. The step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

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 turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

The frequency range from 30MHz to 1GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

2.2 EUT Exercising Software

There is a software CD attached to exercise the device.

2.3 Special Accessories

The device is tested with an USB extended cable with ferrite bead and AV Line with ferrite Ring. They are marketed together with the device.

2.4 Equipment Modification

Any modifications installed previous to testing by Intertek Testing Services Shenzhen Ltd. kejiyuan Branch will be incorporated in each production model sold / leased in the United States.

2.5 Measurement Uncertainty

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

2.6 Support Equipment List and Description

This product was tested in the following configuration:

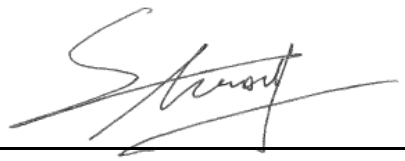
Refer List:

Description	Manufacturer	Model No.
Laptop	IBM	T61
Hard Disk	Smart.drive	HD-003
SD Card	Sandisk	1G/ BB0723011986D
USB Cable	Smart.drive	Unshielded, Length 155cm
USB Cable	ShuoYing	Unshielded, Length 120cm
AV Cable	ShuoYing	Length 150cm
1394 Cable	Smart.drive	Length 180cm
Load Terminal	MTC	TL-01
Test TV	KONKA	LC1700T

All the items listed under section 2.0 of this report are

Confirmed by:

Shawn Xing
Assistant Manager
Intertek Testing Services Shenzhen Ltd.
Kejiyuan Branch
Agent for SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.



Signature

Aug 2, 2010 *Date*

EXHIBIT 3

EMISSION RESULTS

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.

3.1 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 dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
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

3.1 Field Strength Calculation (cont'd)

Example

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

RA = 62.0dBμV
AF = 7.4dB
CF = 1.6dB
AG = 29.0dB
PD = 0dB

AV = –10dB

FS = 62 + 7.4 + 1.6 – 29 + 0 + (–10) = 32dBμV/m

Level in μV/m = Common Antilogarithm [(32dBμV/m)/20] = 39.8μV/m

3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission
At
384.878MHz (Download Mode)

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

3.3 Radiated Emission Data

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 3.6dB margin (Download Mode)

TEST PERSONNEL:

Signature

Billy Li Compliance Engineer
Typed / Printed Name

Aug 2, 2010
Date

Company: SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.
Date of Test: Aug 2, 2010
Model: DV552
Worst Case Operating Mode: Download(with SD Card & Internal flash)

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	384.878	43.7	20.0	18.7	42.4	46.0	-3.6
Horizontal	393.471	52.0	20.0	7.7	39.7	46.0	-6.3
Horizontal	500.031	47.3	20.0	11.3	38.6	46.0	-7.4
Vertical	497.975	46.4	20.0	13.0	39.4	46.0	-6.6
Vertical	509.994	32.5	20.0	24.6	37.1	46.0	-8.9
Vertical	663.870	31.3	20.0	27.4	38.7	46.0	-7.3

NOTES: 1. 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.

2. Negative value in the margin column shows emission below limit.

3. All emissions are below the QP limit.

Test Engineer: Billy Li

Company: SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.
Date of Test: Aug 2, 2010
Model: DV552
Worst Case Operating Mode: PC camera

Table 2

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	385.724	47.7	20.0	10.5	38.2	46.0	-7.8
Horizontal	441.580	43.0	20.0	16.8	39.8	46.0	-6.2
Horizontal	860.652	39.9	20.0	19.8	39.7	46.0	-6.3
Vertical	58.390	39.0	20.0	16.7	35.7	40.0	-4.3
Vertical	387.116	38.5	20.0	18.6	37.1	46.0	-8.9
Vertical	475.340	33.4	20.0	24.7	38.1	46.0	-7.9

NOTES: 1. 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.

2. Negative value in the margin column shows emission below limit.

3. All emissions are below the QP limit.

Test Engineer: Billy Li

Company: SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.
Date of Test: Aug 2, 2010
Model: DV552
Worst Case Operating Mode: Video Recording

Table 3

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	576.752	35.5	20.0	19.0	34.5	46.0	-11.5
Horizontal	603.052	36.3	20.0	15.3	31.6	46.0	-14.4
Horizontal	676.020	45.1	20.0	10.0	35.1	46.0	-10.9
Vertical	572.001	30.7	20.0	21.4	32.1	46.0	-13.9
Vertical	774.960	30.9	20.0	23.7	34.6	46.0	-11.4
Vertical	859.350	26.7	20.0	27.0	33.7	46.0	-12.3

NOTES: 1. 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.

2. Negative value in the margin column shows emission below limit.

3. All emissions are below the QP limit.

Test Engineer: Billy Li

3.4 Conducted Emission Configuration Photograph

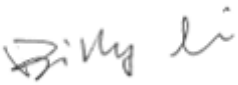
Worst Case Live and Neutral-Conducted Configuration
at
0.526 and 0.530 MHz

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

3.5 Conducted Emission Data

Judgement: Passed by 16.6 dB margin

TEST PERSONNEL:



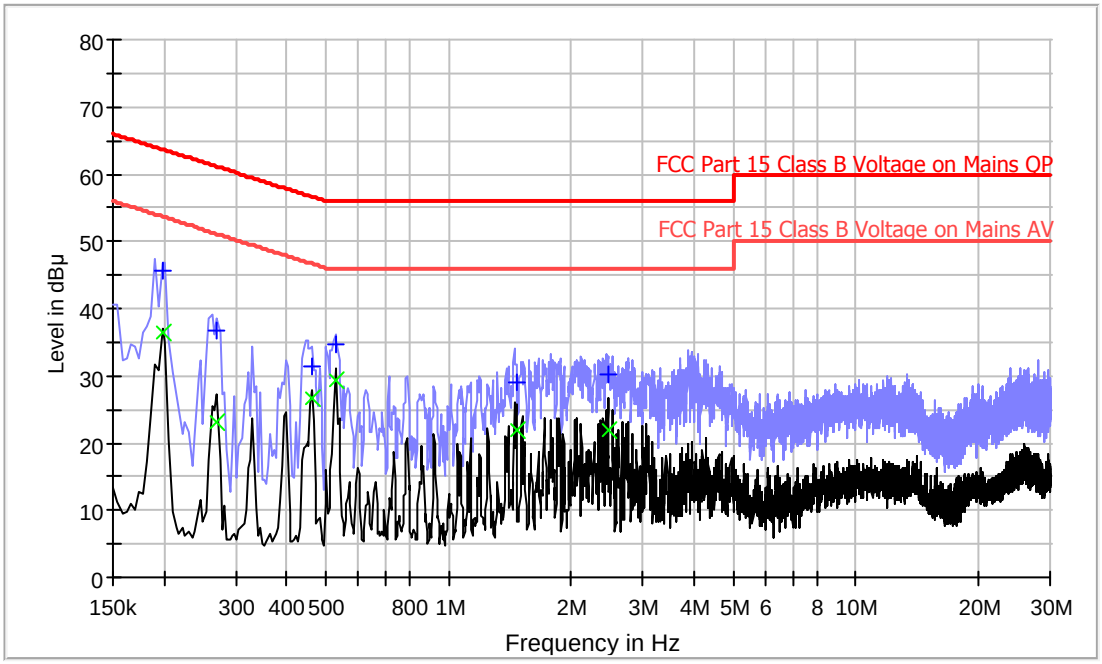
Signature

Billy Li, Compliance Engineer
Typed/Printed Name

Aug 2, 2010
Date

Company: SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.
Date of Test: Aug 2, 2010
Model: DV552
Worst Case Operating Mode: Download (with SD Card & Internal flash)

Conducted Emission Test - FCC



Result Table-QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.198000	45.7	L1	9.6	18.0	63.7
0.270000	36.6	L1	9.6	24.5	61.1
0.462000	31.5	L1	9.6	25.2	56.7
0.526000	34.8	L1	9.6	21.2	56.0
1.466000	29.1	L1	9.7	26.9	56.0
2.462000	30.1	L1	9.7	25.9	56.0

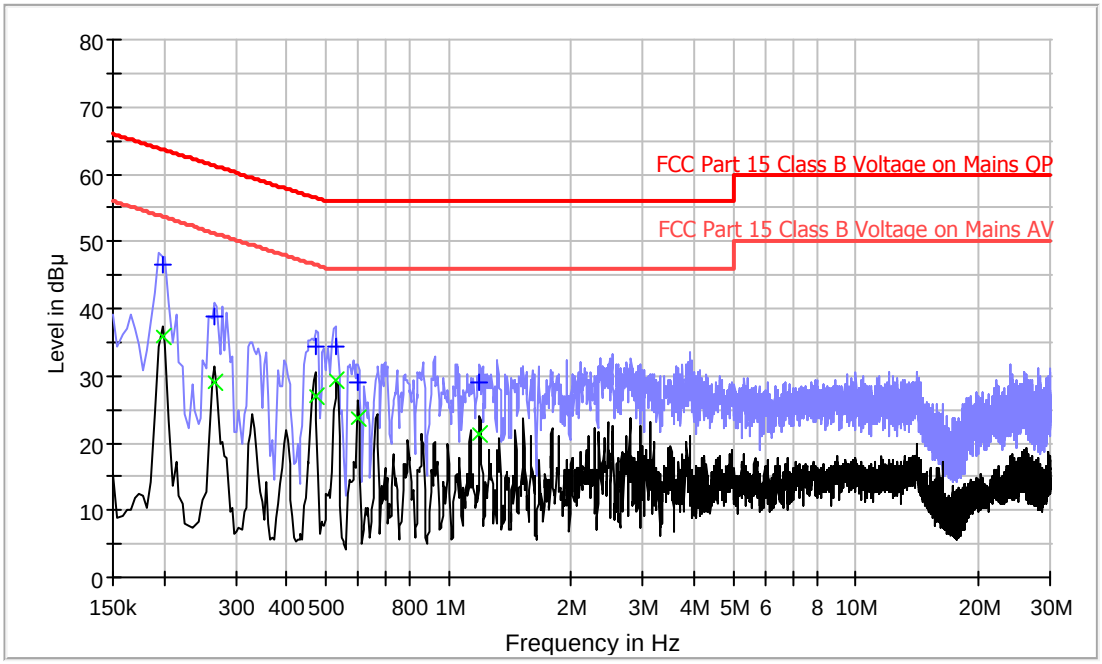
Result Table-AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.198000	36.4	L1	9.6	17.3	53.7
0.270000	23.2	L1	9.6	27.9	51.1
0.462000	26.6	L1	9.6	20.1	46.7
0.526000	29.4	L1	9.6	16.6	46.0
1.466000	22.1	L1	9.7	23.9	46.0
2.462000	21.8	L1	9.7	24.2	46.0

Test Engineer: Billy Li

Company: SHUOYING DIGITAL SCIENCE & TECHNOLOGY (CHINA) CO., LTD.
Date of Test: Aug 2, 2010
Model: DV552
Worst Case Operating Mode: Download(with SD Card & Internal flash)

Conducted Emission Test - FCC



Result Table-QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.198000	46.6	N	9.6	17.1	63.7
0.266000	38.9	N	9.6	22.3	61.2
0.470000	34.2	N	9.6	22.3	56.5
0.530000	34.4	N	9.6	21.6	56.0
0.598000	29.0	N	9.6	27.0	56.0
1.194000	29.0	N	9.6	27.0	56.0

Result Table-AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.198000	35.9	N	9.6	17.8	53.7
0.266000	29.0	N	9.6	22.2	51.2
0.470000	27.1	N	9.6	19.4	46.5
0.530000	29.4	N	9.6	16.6	46.0
0.598000	23.7	N	9.6	22.3	46.0
1.194000	21.3	N	9.6	24.7	46.0

Test Engineer: Billy Li

EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

4.0 Equipment Photographs

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

EXHIBIT 5

PRODUCT LABELLING

5.0 **Product Labelling**

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

EXHIBIT 6

TECHNICAL SPECIFICATIONS

6.0 Technical Specifications

For electronic filing, the block diagram of the tested EUT is saved with filename: block.pdf.

EXHIBIT 7

INSTRUCTION MANUAL

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.

EXHIBIT 8

MISCELLANEOUS INFORMATION

8.0 **Miscellaneous Information**

This miscellaneous information includes emission measuring procedure.

8.1 Emissions Test Procedures

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

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 – 2003.

The computer peripheral 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 antenna height and polarization are varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in QP mode from the frequency band 30MHz to 1GHz and RBW setting is 120kHz. Detector function for conducted emissions are in QP & AV mode and IFBW setting is 9kHz from the frequency band 150kHz to 30MHz.

For radiated emission, the frequency range scanned is 30MHz to 1GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

8.1 Emissions Test Procedures (cont'd)

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

Conducted measurements are made as described in ANSI C63.4 – 2003.

EXHIBIT 9

TEST EQUIPMENT LIST

9.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	25-Nov-09	25-May-11
SZ185-01	EMI Receiver	R&S	ESCI	100547	08-Mar-10	08-Mar-11
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	18-Mar-10	18-Mar-11
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	18-Mar-10	18-Mar-11
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	09-Jan-10	09-Jan-11
SZ062-02	RF Cable	RADIALL	RG 213U	--	19-Apr-10	19-Oct-10
SZ062-06	RF Cable	RADIALL	0.04-26.5GHz	--	17-Aug-09	17-Aug-10
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	17-Aug-09	17-Aug-10
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	23-Nov-09	23-Nov-10
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	23-Nov-09	23-Nov-10
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	23-Nov-09	23-Nov-10
SZ188-03	Shielding Room	ETS	RFD-100	4100	15-Sep-07	15-Sep-10