8 November, 2011

SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
NO.1 Shuoying Rd., Hebei Industry Area, Dalang,
Longhua Town, Baoan, Shenzhen, China

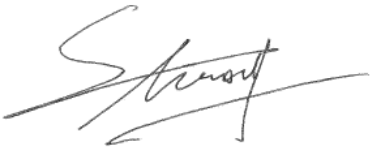
Dear Tony Pan,

Enclosed you will find your file copy of a Part 15 report (FCC ID: XJN-SYP0106).

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,



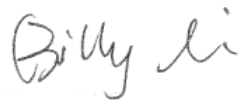
Shawn Xing
Manager

Enclosure

SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.

Application
For
Certification
(FCC ID: XJN-SYP0106)

MID



SZ11090419-1
Billy Li
8 November, 2011

TRF No.: FCC 15C_PC_a
FCC ID: XJN-SYP0106

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 INDUSTRIAL (SHENZHEN) CO., LTD. – MODEL: P0106
FCC ID: XJN-SYP0106

8 November, 2011

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

Equipment Type: JBC-Class B Computing Device / Personal Computer

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 [10-1-10 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 photos	radiated photos.pdf
Test Setup Photo	Conducted photos	conducted photos.pdf
External Photo	External Photos	external photos.pdf
Internal Photo	Internal Photos	internal photos.pdf
Block Diagram	Block Diagram	block diagram.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 MID with data transfer function. The EUT has a resistive touch screen and can be operated by stylus or your nail tapping the screen. The device is powered by 1 X 8.4V rechargeable battery or an AC/DC Adapter (INPUT: AC 100-240V, 50/60Hz; OUTPUT: DC 9V, 2.5A). For more detailed features description, please refer to the user's manual.

1.2 Related Submittal(s) Grants

This is an application for certification of a Personal Computer.

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 shielding room used to collect the radiated data and conducted data are **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 AC/DC Adapter (INPUT: AC 100-240V, 50/60Hz, 0.5A; OUTPUT: DC 9V, 2.5A) and 1 X 8.4V fully charged battery. 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 5GHz 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

N/A

2.3 Special Accessories

Shielding HDMI cable with two ferrite ring.

2.4 Equipment Modification

Any modifications installed previous to testing by SHUOYING INDUSTRIAL (SHENZHEN) 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

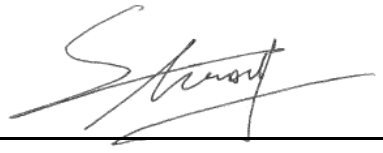
This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
Router	Buffalo	WHR-HP-G54
2 X USB Disk	Sandisk	USB/2GB
2 X TF card	Sandisk	TF/2GB
Earphone	ShuoYing	EP-001 (Length: 120cm)
Adapter	ShuoYing	ADS-24S-12 0923GPCU (INPUT: 100-240, 50/60Hz, 0.7A; OUTPUT: DC 9V, 2.5A)
HDMI terminal	MTC	TL-002
Net Cable	PTL	RJ45 Cat.5 net cable (Length: 120cm)
Shielded HDMI Cable with two ferrite ring	ShuoYing	HDMI-001 (Length: 100cm)

All the items listed under section 2.0 of this report are
Confirmed by:

Shawn Xing
Manager
Intertek Testing Services Shenzhen Ltd.
Kejiyuan Branch
Agent for SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.



Signature

8 November, 2011 *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
410.420MHz (HDMI Out Mode)

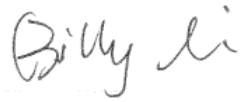
For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.pdf.

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 1.7dB margin (HDMI Out Mode)

TEST PERSONNEL:



Signature

Billy Li, Team Leader
Typed / Printed Name

8 November, 2011
Date

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: 8 November, 2011
Model: P0106
Worst Case Operating Mode: HDMI Out

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	389.900	45.9	20.0	16.9	42.8	46.0	-3.2
Horizontal	410.420	46.8	20.0	17.5	44.3	46.0	-1.7
Horizontal	453.920	40.3	20.0	18.4	38.7	46.0	-7.3
Vertical	92.060	43.2	20.0	8.2	31.4	43.5	-12.1
Vertical	584.840	40.3	20.0	20.9	41.2	46.0	-4.8
Vertical	972.380	35.7	20.0	27.6	43.3	54.0	-10.7

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 below 1000MHz are below the QP limit and all emissions above 1000MHz are below the AV limit.

4. Peak detector was used when the frequency above 1000MHz and QP detector was used when the frequency below 1000MHz.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: 8 November, 2011
Model: P0106
Worst Case Operating Mode: Online Video Show

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	253.520	43.6	20.0	12.0	35.6	46.0	-10.4
Horizontal	548.652	41.1	20.0	17.8	38.9	46.0	-7.1
Horizontal	598.760	37.0	20.0	20.8	37.8	46.0	-8.2
Vertical	98.870	45.2	20.0	9.1	34.3	43.5	-9.2
Vertical	452.120	45.4	20.0	16.9	42.3	46.0	-3.7
Vertical	493.526	40.8	20.0	18.4	39.2	46.0	-6.8

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 below 1000MHz are below the QP limit and all emissions above 1000MHz are below the AV limit.

4. Peak detector was used when the frequency above 1000MHz and QP detector was used when the frequency below 1000MHz.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: 8 November, 2011
Model: P0106
Worst Case Operating Mode: Video Show (Stand-alone)

Table 4

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	189.002	42.5	20.0	10.7	33.2	43.5	-10.3
Horizontal	324.562	41.7	20.0	15.8	37.5	46.0	-8.5
Horizontal	462.254	41.0	20.0	17.6	38.6	46.0	-7.4
Vertical	97.900	45.7	20.0	9.1	34.8	43.5	-8.7
Vertical	269.997	48.2	20.0	12.4	40.6	46.0	-5.4
Vertical	453.608	45.3	20.0	17.1	42.4	46.0	-3.6

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.

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

6. All emissions below 1000MHz are below the QP limit and all emissions above 1000MHz are below the AV limit.

7. Peak detector was used when the frequency above 1000MHz and QP detector was used when the frequency below 1000MHz.

Test Engineer: Billy Li

3.4 Conducted Emission Configuration Photograph

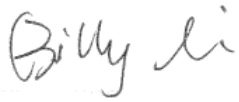
Worst Case Neutral-Conducted Configuration
at
0.186 MHz

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 12.1 dB margin (HDMI Out Mode)

TEST PERSONNEL:



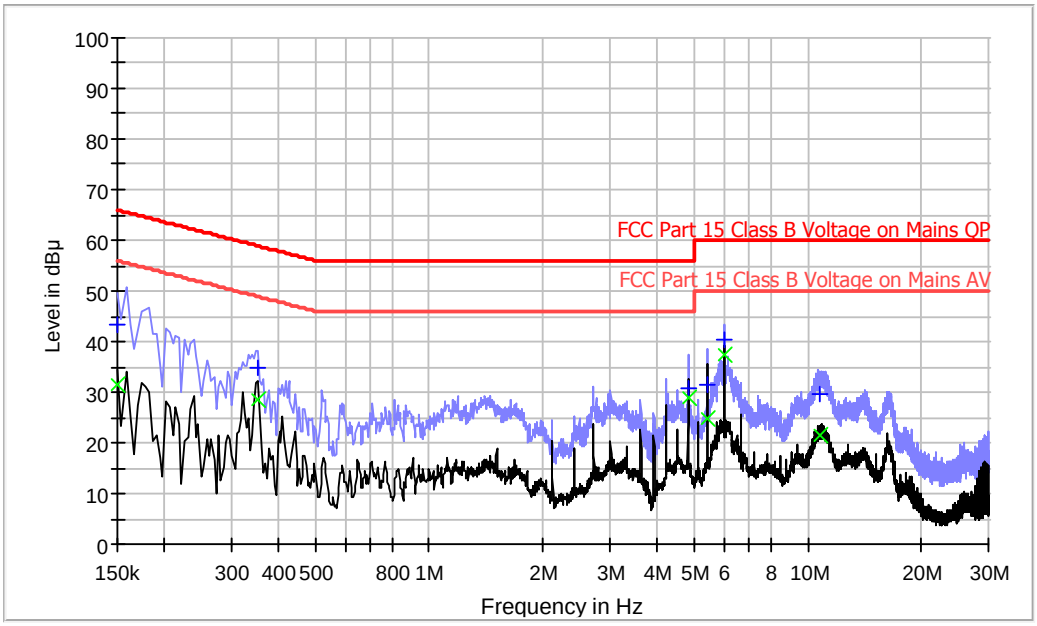
Signature

Billy Li, Team Leader
Typed/Printed Name

8 November, 2011
Date

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: 8 November, 2011
Model: P0106
Worst Case Operating Mode: HDMI Out

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.150	43.3	L1	9.7	22.7	66.0
0.354	34.9	L1	9.6	24.0	58.9
4.830	30.6	L1	9.8	25.4	56.0
5.430	31.6	L1	9.6	28.4	60.0
6.034	40.3	L1	9.8	19.7	60.0
10.800	29.6	L1	9.8	30.4	60.0

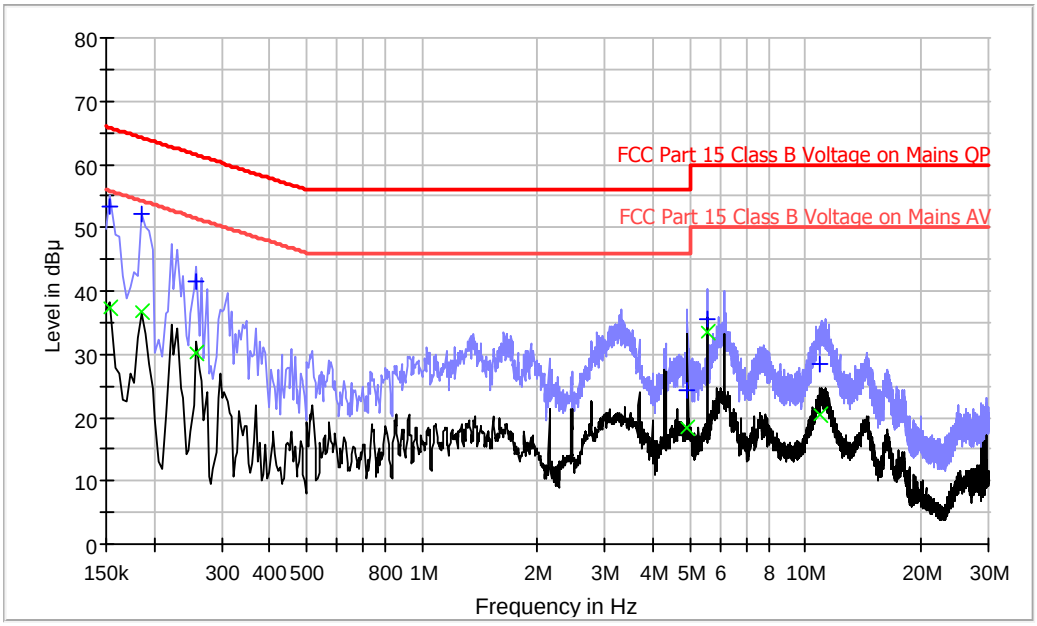
Result Table AV

Frequency (MHz)	CAverage (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.150	31.3	L1	9.7	24.7	56.0
0.354	28.5	L1	9.6	20.4	48.9
4.830	28.9	L1	9.8	17.1	46.0
5.430	24.9	L1	9.6	25.1	50.0
6.034	37.5	L1	9.8	12.5	50.0
10.800	21.3	L1	9.8	28.7	50.0

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: 8 November, 2011
Model: P0106
Worst Case Operating Mode: HDMI Out

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154	53.5	N	9.6	12.3	65.8
0.186	52.1	N	9.6	12.1	64.2
0.258	41.6	N	9.7	19.9	61.5
4.926	24.3	N	9.9	31.7	56.0
5.542	35.6	N	9.8	24.4	60.0
10.946	28.3	N	9.8	31.7	60.0

Result Table AV

Frequency (MHz)	CAverage (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154	37.3	N	9.6	18.5	55.8
0.186	36.8	N	9.6	17.4	54.2
0.258	30.3	N	9.7	21.2	51.5
4.926	18.3	N	9.9	27.7	46.0
5.542	33.5	N	9.8	16.5	50.0
10.946	20.3	N	9.8	29.7	50.0

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 are in QP mode from the frequency band 30MHz to 1GHz with RBW setting 120kHz and in PK & AV mode from frequency band 1GHz to 5GHz with RBW setting 1MHz. 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 5GHz. 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	02-Jul-11	02-Jan-13
SZ185-01	EMI Receiver	R&S	ESCI	100547	08-Mar-11	08-Mar-12
SZ061-08	Horn Antenna	ETS	3115	00092346	06-Jul-11	06-Jul-12
SZ061-06	Active Loop Antenna	Electro-Metrics	6509	00069080	17-May-11	17-May-12
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	08-Mar-11	08-Mar-12
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	08-Mar-11	08-Mar-12
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	15-Jan-11	15-Jan-12
SZ062-02	RF Cable	RADIALL	RG 213U	--	25-Sep-11	25-Mar-12
SZ062-06	RF Cable	RADIALL	0.04-26.5GHz	--	16-Sep-11	16-Sep-12
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	16-Sep-11	16-Sep-12
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	15-Jul-11	15-Jul-12
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	12-Dec-10	12-Dec-11
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	12-Dec-10	12-Dec-11
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	12-Dec-10	12-Dec-11
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Sep-10	16-Sep-13