

Mar 7, 2011

Airline Mechanical Co., Ltd 20TH & 21ST FL. KAM MAN FUNG FTY BLDG. 6 HONG MAN ST. CHAI WAN Hong Kong

Dear Dominic Cheng:

Enclosed you will find your file copy of a Part 15 Certification (FCC ID: ZGID9190A01).

For your reference, TCB will normally take another 5 days 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



Airline Mechanical Co., Ltd

Application
For
Certification
(FCC ID: ZGID9190A01)

Dimming Switch module

Model: ZDS-UDXX A01 Additional Model: ZDS-1XXUS, D9190

Transceiver

Note: The characters "XX" in model No. denote the numerical 00-99 for marketing purpose.

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 [10-1-09]

SZ11030024-1

Billy de

Billy Li

Mar 7, 2011

- 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.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- 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.

LIST OF EXHIBITS

INTRODUCTION

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MEASUREMENT/TECHNICAL REPORT

Airline Mechanical Co., Ltd - Model: ZDS-UDXX A01 Additional Model: ZDS-1XXUS, D9190 FCC ID: ZGID9190A01

Mar 7, 2011

This report concerns (check one:)	Original Grant X	Class II Change						
Equipment Type: DXT - Part 15 Low Power Transceiver, RX Verified								
Deferred grant requested per 47 CFR 0.45	. , . , . ,							
		l: date						
Company Name agrees to notify the Com	mission by:							
of the intended date of announcement of date.	the product so that the	date grant can be issued on that						
Transition Rules Request per 15.37?	Yes	s No _X_						
If no, assumed Part 15, Subpart C for Edition] provision.	intentional radiator -	the new 47 CFR [10-1-09						
Report prepared by:								
	Shawn Xing Intertek Testing Servic Kejiyuan Branch 6F, Block D, Huahan Nanshan District, She Phone: (86 755) 860 Fax: (86 755) 860	Building, Langshan Road, nzhen, P. R. China 1 6288						

Note: The characters "XX" in model No. denote the numerical 00-99 for marketing purpose.

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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
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	Letter of Agreement	agreement.pdf

EXHIBIT 1 GENERAL DESCRIPTION

1.0 **General Description**

1.1 Product Description

The Equipment Under Test (EUT) is a Dimming Switch module transceiver connected directly to AC 120V/60Hz main line. It is designed to act as a repeater, which will re-transmit the 908.42MHz RF signal (when receive a command signal from the remote controller) to ensure that the signal is received. It also has manual function. For more detail, please refer to the user manual.

The Models: ZDS-1XXUS, D9190 are the same as the Models: ZDS-UDXX A01 in hardware aspect. The models are difference in plastic colour, packaging and marketing purpose only.

Antenna Type: Integral antenna

Modulation Type: FSK

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 Dimming Switch module. The verification procedure of the receiver portion of this transceiver is being processed at the same time of this application.

1.3 Test Methodology

Both AC mains line-conducted and Radiated emission measurement was 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, Block D, 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 EUT was powered by AC 120V/60Hz during the testing.

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 3.0.

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 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 radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel.

2.3 Special Accessories

No special accessories used.

2.4 Equipment Modification

Any modifications installed previous to testing by Airline Mechanical 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.
Lighting Load	Airline Mechanical Co., Ltd	330W, 120Vac/60Hz, 2.75A 43.6Ω
Resistance Load	Airline Mechanical Co., Ltd	500W, 120Vac/60Hz, 4.16A, 28.8Ω

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 AIRLINE MECHANICAL CO., LTD

_____ Signature

Mar 7, 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 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 $FS = Field Strength in dB\mu V/m$

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:

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

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.

 $RA = 62.0 dB\mu V$

AF = 7.4 dB

CF = 1.6 dB

 $AG = 29.0 \, dB$

PD = 0 dB

AV = -10 dB

 $FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 dB\mu V/m$

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

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 55.544 MHz

Judgement: Passed by 12.1 dB

TEST PERSONNEL:	
Billy li	
Signature	
Billy Li, Compliance Engineer	
Typed/Printed Name	
M 7. 0044	
<u>Mar 7, 2011</u>	
Date	

Company: Airline Mechanical Co., Ltd Date of Test: Mar 7, 2011

Model: ZDS-UDXX A01

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 1

Radiated Emissions

Polarization	Frequency	Reading	Pre-	Antenna	Net	Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	56.331	35.8	20.0	9.0	24.8	40.0	-15.2
Horizontal	83.257	32.5	20.0	9.0	21.5	40.0	-18.5
Horizontal	864.276	24.0	20.0	27.2	31.2	46.0	-14.8
Vertical	55.544	39.0	20.0	8.9	27.9	40.0	-12.1
Vertical	81.603	34.7	20.0	8.9	23.6	40.0	-16.4
Vertical	865.655	25.2	20.0	27.2	32.4	46.0	-13.6

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.

3.1.4 Transmitter Spurious Emissions (Radiated)

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 908.420 MHz

Judgement: Passed by 5.7 dB

TEST PERSONNEL:
Billy li
Signature
Billy Li, Compliance Engineer
Typed/Printed Name
Mar 7, 2011

TRF No.: FCC 15C_TXa FCC ID: ZGID9190A01

Date

Applicant: Airline Mechanical Co., Ltd Date of Test: Mar 7, 2011

Model: ZDS-UDXX A01

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 2

Radiated Emissions

(908.420MHz)

			1				
Polarization	Frequency	Reading	Pre-	Antenna	Net	QP Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
	, ,	, , ,	Gain	(dB)	(dBµV/m)	(dBµV/m)	, ,
			(dB)		, ,	, , ,	
Horizontal	908.420	65.3	0.0	23.0	88.3	94.0	-5.7

Polarization	Frequency	Reading	Pre-	Antenna	Net	Peak Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)		,	,	
Horizontal	1816.840	56.8	36.8	27.2	47.2	74.0	-26.8
Horizontal	2725.260	59.6	36.7	29.6	52.5	74.0	-21.5
Horizontal	3633.680	59.0	36.5	31.8	54.3	74.0	-19.7

Polarization	Frequency	Reading	Pre-	Antenna	Net	Average Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)	, ,		, , ,	
Horizontal	3633.680	48.2	36.5	31.8	43.5	54.0	-10.5

Notes: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, average detector is used for average measurement.

- 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: Billy Li

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 0.170 MHz

Judgement: Passed by 9.0 dB margin

TEST PERSONNEL:
Billy li
Signature
Billy Li, Compliance Engineer
Typed/Printed Name
Mar 7, 2011

TRF No.: FCC 15C_TXa FCC ID: ZGID9190A01

Date

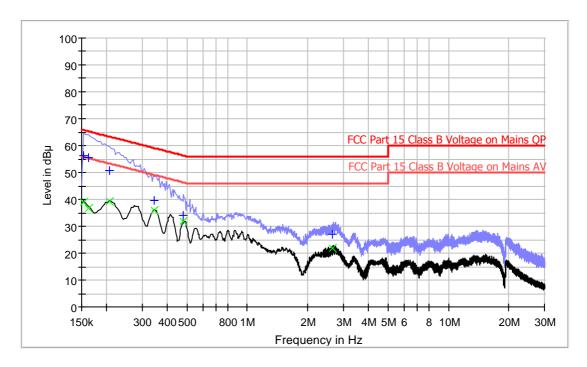
Applicant: Airline Mechanical Co., Ltd Date of Test: Mar 7, 2011

Model: ZDS-UDXX A01

Sample: 1/1

Worst Case Operating Mode: Transmit With Full Load

Conducted Emission Test - FCC



Result Table-QP

Frequency	QuasiPeak	Line	Corr	Margin	Limit
(MHz)	(dB			(dB)	(dB μ V)
0.154000	56.4	L1	9.6	9.4	65.8
0.162000	55.4	L1	9.6	10.0	65.4
0.206000	50.7	L1	9.6	12.7	63.4
0.346000	39.7	L1	9.6	19.4	59.1
0.482000	34.1	L1	9.6	22.2	56.3
2.646000	27.1	L1	9.8	28.9	56.0

Result Table-AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154000	38.9	L1	9.6	16.9	55.8
0.162000	36.6	L1	9.6	18.8	55.4
0.206000	39.3	L1	9.6	14.1	53.4
0.346000	36.0	L1	9.6	13.1	49.1
0.482000	32.0	L1	9.6	14.3	46.3
2.646000	21.8	L1	9.8	24.2	46.0

Test Engineer: Billy Li

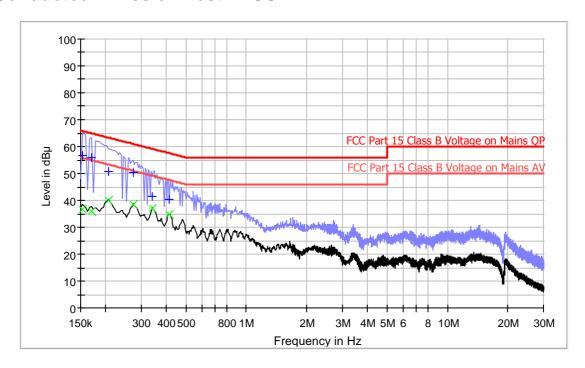
Applicant: Airline Mechanical Co., Ltd Date of Test: Mar 7, 2011

Model: ZDS-UDXX A01

Sample: 1/1

Worst Case Operating Mode: Transmit With Full Load

Conducted Emission Test - FCC



Result Table-QP

Frequency	QuasiPeak	Line	Corr	Margin	Limit
(MHz)	(dB			(dB)	(dB µ V)
0.154000	56.5	N	9.6	9.3	65.8
0.170000	56.0	N	9.6	9.0	65.0
0.206000	50.9	N	9.6	12.5	63.4
0.274000	50.3	N	9.6	10.7	61.0
0.342000	41.3	N	9.6	17.9	59.2
0.414000	40.2	N	9.6	17.4	57.6

Result Table-AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.154000	36.6	N	9.6	19.2	55.8
0.170000	36.1	N	9.6	18.9	55.0
0.206000	39.9	N	9.6	13.5	53.4
0.274000	38.7	N	9.6	12.3	51.0
0.342000	36.9	N	9.6	12.3	49.2
0.414000	35.0	N	9.6	12.6	47.6

Test Engineer: Billy Li

EXHIBIT 4 EQUIPMENT PHOTOGRAPHS

4.0 **Equipment Photographs**

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

EXHIBIT 5 PRODUCT LABELLING

5.0 **Product Labelling**

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

EXHIBIT 6 TECHNICAL SPECIFICATIONS

6.0 <u>Technical Specifications</u>

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

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 <u>Miscellaneous Information</u>

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

8.1 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: be.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) Left bandedge:

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

$$= 88.3 dB\mu v/m - 44.8 dB$$

= $43.5 dB\mu v/m$

(ii) Right bandedge:

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

$$= 88.3 dB\mu v/m - 51.5 dB$$

= $36.8 dB\mu v/m$

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 46dBµv/m (QP Limit).

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

8.2 Transmitter Duty Cycle Calculation and Measurements

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 SWEEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
Х	Not applicable, duty cycle was not used.

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 - 2003.

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 adjust 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.

Above 1000 MHz, peak detector was used for peak measurement and average detector is used for average measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths.

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.

8.3 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 Normal Link d battery is used.

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

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.

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
SZ061-08	Horn Antenna	ETS	3115	00092346	15-Mar-10	15-Sep-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	15-Jan-11	15-Jan-12
SZ062-02	RF Cable	RADIALL	RG 213U		30-Sep-10	30-Mar-11
SZ062-06	RF Cable	RADIALL	0.04- 26.5GHz		16-Sep-10	16-Sep-11
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz	-	16-Sep-10	16-Sep-11
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	12-Nov-10	12-Nov-11
SZ187-01	Two-Line V- Network	R&S	ENV216	100072	12-Nov-10	12-Nov-11
SZ187-02	Two-Line V- Network	R&S	ENV216	100073	12-Nov-10	12-Nov-11
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Sep-10	16-Sep-13
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02		30-Sep-10	30-Mar-11