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**REPORT ON**

Limited FCC CFR 47: Parts 15 and 22  
and Industry Canada RSS-132 Testing  
of an Intermec 700C Mobile Computer

**COMMERCIAL-IN-CONFIDENCE**

**FCC ID: EHAMC75 and IC ID: 1223A-MC75**

**Report No OR615078/04 Issue 1**

**April 2006**

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**REPORT ON**

Limited FCC CFR 47: Parts 15, and 22 and Industry Canada  
RSS-132 Testing of an Intermec 700C Mobile Computer

FCC ID: EHAMC75 IC ID: 1223A-MC75


Report No OR615078/04 Issue 1

April 2006

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**DATED**

20<sup>th</sup> April 2006

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**ENGINEERING STATEMENT**

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47: Parts 15 and 22. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineers;



P J Harrison



S Hartley



A Guy



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## **SECTION 1**

### **REPORT SUMMARY**

Limited FCC CFR 47: Parts 15 and 22  
and Industry Canada RSS-132 Testing  
of an Intermec 700C Mobile Computer



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## 1.1 STATUS

<b>Equipment Under Test</b>	700C Mobile Computer
<b>Objective</b>	To undertake measurements to determine the Equipment Under Test's (EUT's) compliance with the specification.
<b>Name and Address of Client</b>	Intermec Technologies Corporation 550 Second Street S.E. Cedar Rapids Iowa 52401 USA
<b>Type</b>	700C
<b>Part Number(s)</b>	700C
<b>Declared Variants</b>	None
<b>Test Specification/Issue/Date</b>	FCC CFR 47: Part 15, Subparts B and C: 2003 FCC CFR 47: Part 22, Subpart H: 2004 RSS-132: Issue 1: 2002
<b>Number of Items Tested</b>	One
<b>Security Classification of EUT</b>	Commercial-in-Confidence
<b>Incoming Release Date</b>	Declaration of Build Status 20 <sup>th</sup> February 2006
<b>Disposal Reference Number Date</b>	Held pending disposal Not Applicable Not Applicable
<b>Serial Number</b>	1890600173
<b>Order Number Date</b>	7500003132 3 <sup>rd</sup> February 2006
<b>Start of Test Finish of Test</b>	16 <sup>th</sup> March 2006 24 <sup>th</sup> March 2006
<b>Related Documents</b>	ANSI C63.4: 2001 RSS-212, Issue 1: 1999 SRSP-503, Issue 6: 2003



## 1.2 INTRODUCTION

The information contained within this report is intended to show limited verification of compliance of the Intermec 700C Mobile Computer to the requirements of FCC Specification Parts 15 and 22 and Industry Canada Radio Specification RSS-132.

Testing has been performed under the following site accreditations

FCC Accreditation  
90987 Octagon House, Fareham Test Laboratory

Industry Canada Accreditation  
IC4270 Octagon House, Fareham Test Laboratory



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## 1.2 INTRODUCTION

### 1.2.1 Declaration of Build Status

MAIN EUT	
MANUFACTURING DESCRIPTION	Mobile Computer
MANUFACTURER	Intermec Technologies Corporation
TYPE	700C
PART NUMBER	700C
SERIAL NUMBER	TBD
HARDWARE VERSION	200
SOFTWARE VERSION	14053
TRANSMITTER OPERATING RANGE	Quad band GSM, 802.11b/g, Bluetooth radios
RECEIVER OPERATING RANGE	Quad band GSM, 802.11b/g, Bluetooth radios
COUNTRY OF ORIGIN	Singapore
INTERMEDIATE FREQUENCIES	
ITU DESIGNATION OF EMISSION	GXW or G7W, 26M0G1D, 1M00Q1D
HIGHEST INTERNALLY GENERATED FREQUENCY	400 MHz for processor
OUTPUT POWER (W or dBm)	2W/1W, 100 mW, 11 mW
FCC ID	EHAMC75
INDUSTRY CANADA ID	1223A-MC75
TECHNICAL DESCRIPTION (a brief description of the intended use and operation)	700C mobile computer used for inventory control applications.
BATTERY/POWER SUPPLY	
MANUFACTURING DESCRIPTION	Lithium Ion Battery Pack
MANUFACTURER	Intermec Technologies
VOLTAGE	+7.2V

Signature

Date

20<sup>th</sup> February 2006

D of B S Serial No

0001

TUV Product Service Limited formally certifies that the manufacturer's declaration as reproduced in this report is a true and accurate record of the original received from the applicant.

### 1.3 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out is shown below.

FCC CFR 47: Part 15, Subparts B and RSS-132

Test	Spec Clause		Test Description	Result	Comments
	FCC	Industry Canada			
2.1	Part 15.109	RSS-132, 6.6 RSS-Gen, 6	Spurious Radiated Emissions	Pass	
2.2	Part 15.107	RSS-Gen, 7.2.2	Conducted Emissions	Pass	

FCC CFR 47: Part 22, Subpart H and RSS-132

Test	Spec Clause		Test Description	Result	Comments
	FCC	Industry Canada			
2.3	Part 22.913 (a)	RSS-132, 4.4	Effective Radiated Power – Radiated	Pass	
	Part 22.913 (a)	RSS-132, 4.4	Effective Radiated Power –Radiated		
	Part 22.1047(d)	RSS-132, 4.2	Modulation Characteristics		
	Part 22.1049, Part 22.917 (b)	RSS-132, 4.5	Occupied Bandwidth		
	Part 22.1051, Part 22.905 Part 22.917	RSS-132, 4.5	Spurious Emissions at Antenna Terminals (+/- 1MHz)		
2.4	Part 22.1053, Part 22.917	RSS-132, 4.5	Radiated Spurious Emissions	Pass	
	Part 22.1051, Part 22.917(a)	RSS-132, 4.5	Conducted Spurious Emissions		
	Part 22.1055, Part 22.355	RSS-132, 4.3	Frequency Stability Under Temperature Variations		
	Part 22.1055, Part 22.355	RSS-132, 4.3	Frequency Stability Under Voltage Variations		



## **1.4 PRODUCT INFORMATION**

### **1.4.1 Technical Description**

The Equipment Under Test (EUT) was an Intermec 700C Mobile Computer used for inventory control applications.

### **1.4.2 Modes of Operation**

Modes of operation of the EUT during testing were as given in section 1.4.3:

FCC Part 22 testing was carried out with the EUT transmitting at maximum power or receiving as detailed in section 1.4.3.

FCC Part 15 B testing was carried out with the EUT in Idle mode.

GSM (Class 4) GSM 850/EGSM900 = 32.0dBm  
GPRS (Class 10) Class B operation  
EDGE (Class E2) GSM 850/EGSM900 = 26.0dBm

### **1.4.3 Test Configuration**

Test Configuration – GPRS 850 Mode

850MHz transmitting on the following channels and frequencies;  
Bottom Channel 128: 824.20MHz  
Middle Channel 189: 836.40MHz  
Top Channel 251: 848.8MHz  
850MHz receiving on the following channels and frequencies;  
Middle Channel 189: 836.40MHz

Test Configuration – EDGE 850 Mode

850MHz transmitting on the following channels and frequencies;  
Bottom Channel 128: 824.20MHz  
Middle Channel 189: 836.40MHz  
Top Channel 251: 848.8MHz  
850MHz receiving on the following channels and frequencies;  
Middle Channel 189: 836.40MHz



## **1.5 TEST CONDITIONS**

The EUT was set-up simulating a typical user installation at the Test Laboratory, as listed in Section 1.2 and tested in accordance with the applicable specification.

The Intermec 700C Mobile Computer was powered by a 7.2V Lithium Ion Battery Pack for FCC Part 22 testing.

The Intermec 700C Mobile Computer was powered by 120V 60Hz for FCC Part 15 B testing in Idle Mode only.

## **1.6 DEVIATIONS FROM THE STANDARD**

No deviations from the applicable test standards were made.

## **1.7 MODIFICATION RECORD**

No modifications were made to the EUT during testing.

## **SECTION 2**

### **TEST RESULTS**

Limited FCC CFR 47: Parts 15 and 22  
and Industry Canada RSS-132 Testing  
of an Intermec 700C Mobile Computer

## **2.1 SPURIOUS RADIATED EMISSIONS**

### **2.1.1 Specification Reference**

FCC CFR 47: Part 15 Subpart B, Section 15.109, Industry Canada RSS-132, 6.6

### **2.1.2 Equipment Under Test**

700C Mobile Computer

### **2.1.3 Date of Test**

21<sup>st</sup> March 2006

### **2.1.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.1.5 Test Procedure**

Test Performed in accordance with ANSI C63.4 and RSS-212.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber. Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Using the information from the preliminary profiling of the EUT. The list of emissions was then confirmed or updated under Alternative Open Site conditions. Emission levels were maximised by adjusting the antenna height, antenna polarisation and turntable azimuth.

Emissions identified within the range 30MHz – 1GHz were then formally measured using a CISPR Quasi-Peak detector.

Emissions identified within the range 1GHz – 5GHz were then formally measured using Peak and Average Detectors, as appropriate.

The measurements were performed at a 3m distance unless otherwise stated.

## 2.1 SPURIOUS RADIATED EMISSIONS

### 2.1.6 Test Results

Equipment Designation: Unintentional Radiator.

The EUT met the requirements of FCC CFR 47: Part 15 Subpart B, Section 15.109 and Industry Canada RSS-132, 6.6 for Spurious Radiated Emissions (30MHz – 1GHz).

Measurements were made with the EUT in GPRS 850 Idle Mode.

#### EUT Receiving on Middle Channel (836.4MHz)

The levels of the six highest emissions measured in accordance with the specification are presented below: -

Frequency	Polarisation	Height	Azimuth	Field Strength		Limit	
MHz		cm	degree	dBµV/m	µV/m	dBµV/m	µV/m
37.36	Vertical	100	0	23.8	15.5	40.0	100.0
39.28	Vertical	100	0	23.0	14.1	43.5	150.0
41.52	Vertical	100	0	21.9	12.5	46.0	200.0
52.56	Vertical	100	0	19.0	8.9	46.0	200.0
63.35	Vertical	100	0	14.3	5.2	46.0	200.0
84.20	Vertical	100	320	18.3	8.3	46.0	200.0

The EUT met the requirements of FCC CFR 47: Part 15 Subpart B, Section 15.109 and Industry Canada RSS-132, 6.6 for Spurious Radiated Emissions (1GHz - 20GHz).

Measurements were made with the EUT in GPRS 850 Idle Mode.

No emissions were detected above the noise floor.

## **2.2 CONDUCTED EMISSIONS**

### **2.2.1 Specification Reference**

FCC CFR 47: Part 15 Subpart B, Section 15.107, Industry Canada RSS-Gen, 7.2.2

### **2.2.2 Equipment Under Test**

700C Mobile Computer

### **2.2.3 Date of Test**

24<sup>th</sup> March 2006

### **2.2.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.2.5 Test Procedure**

All Conducted Emission measurements were made within a Screened Enclosure, on the Live and Neutral Lines.

The disturbances were formally measured using both Quasi-Peak and Average Detectors which met the CISPR requirements.

## 2.2 CONDUCTED EMISSIONS

### 2.2.6 Test Results

The EUT met the requirements of FCC CFR 47: Part 15 Subpart B, Section 15.107 and Industry Canada RSS-Gen 7.2.2 for Conducted Emissions (150kHz – 30MHz).

Measurements were made with the EUT in GPRS 850 Idle Mode.

#### EUT Receiving on Middle Channel (836.4MHz)

The levels of the six highest emissions measured in accordance with the specification are presented below: -

Frequency	Quasi-Peak Level	Quasi-Peak Specification Limit	Average Level	Average Specification Limit	Result
MHz	dBμV	dBμV	dBμV	dBμV	
0.150	57.9	66.0	44.7	56.0	Pass
0.222	47.4	62.7	38.7	52.7	Pass
0.303	38.6	60.2	30.2	50.2	Pass
0.375	41.6	58.4	37.0	48.4	Pass
0.969	35.9	56.0	30.9	46.0	Pass
1.045	35.7	56.0	30.2	46.0	Pass
23.950	41.2	60.0	36.8	50.0	Pass

#### Live Line Test Results

The margin between the specification requirements and all other emissions was 21.6dB or more below the specified Quasi-Peak and 20.0dB or more below the specified Average limit.

Frequency	Quasi-Peak Level	Quasi-Peak Specification Limit	Average Level	Average Specification Limit	Result
MHz	dBμV	dBμV	dBμV	dBμV	
0.150	58.2	66.0	45.9	56.0	Pass
0.222	47.8	62.7	39.4	52.7	Pass
0.198	43.3	60.3	37.0	50.3	Pass
0.370	42.3	58.5	36.7	48.5	Pass
2.908	35.5	56.0	27.9	46.0	Pass
23.946	38.4	60.0	33.0	50.0	Pass

#### Neutral Line Test Results

The margin between the specification requirements and all other emissions was 21.6dB or more below the specified Quasi-Peak and 18.1dB or more below the specified Average limit.

## **2.3 EFFECTIVE RADIATED POWER (RADIATED)**

### **2.3.1 Specification Reference**

FCC CFR 47: Part 22 Subpart H, Section 22.913 and Industry Canada RSS-132, 4.4

### **2.3.2 Equipment Under Test**

700C Mobile Computer

### **2.3.3 Date of Test**

16<sup>th</sup> March 2006

### **2.3.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.3.5 Test Procedure**

A peak measurement of the carrier frequency was recorded with the EUT in its worse case orientation using a RES B/W of 1MHz and Vid B/W of 1MHz at a distance of 3m.

A signal generator was then connected to horn antenna at 1.5m fixed height, at the 3m position in place of the EUT. The measuring receive horn and the substituting transmit horn were then electronically aligned (height search at the received frequency until maximum correlation is achieved).

The signal generator level was adjusted until the recorded peak level (raw peak) was reproduced. The cable was then removed from the substitution transmit horn and attached to the measurement receiver input. The measured level into the substitution transmit horn and its isotropic gain was used to calculate the maximum radiated peak output power (EIRP).



## 2.3 EFFECTIVE RADIATED POWER (RADIATED)

### 2.3.6 Test Results

Maximum Power – GPRS 850 Mode

Frequency MHz	Output Power dBm	Isotropic Gain dB	Result dBm	Result mW
824.30	32.4	-10	22.4	173.80
836.50	32.3	-10	22.3	169.80
848.80	32.4	-10	22.4	173.80

Maximum Power – EDGE 850 Mode

Frequency MHz	Output Power dBm	Isotropic Gain dB	Result dBm	Result mW
824.30	32.5	-10	22.5	177.80
836.50	32.2	-10	22.2	165.96
848.80	32.3	-10	22.3	169.80

Limit	<7W or <+38.45dBm
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### Remarks

EUT complies with 22.913(a) and Industry Canada RSS-132, 6.4. The EUT does not exceed 7W or 38.45dBm at the measured frequencies.

## **2.4 RADIATED SPURIOUS EMISSIONS**

### **2.4.1 Equipment Reference**

FCC CFR 47: Part 22 Subpart H, Section 22.917 and Industry Canada RSS-132, 4.5

### **2.4.2 Equipment Under Test**

700C Mobile Computer

### **2.4.3 Date of Test**

18<sup>th</sup> March to 19<sup>th</sup> March 2006

### **2.4.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.4.5 Test Procedure**

Test Performed in accordance with ANSI C63.4.

In order to determine the Radiated Emission Limits, measurements of transmitter power (P) were first carried out on the top, middle and bottom channels using a peak detector, and the results are shown in the following table.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within the Anechoic Chamber. Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Using the information from the preliminary profiling of the EUT. The list of emissions was then confirmed or updated in the Anechoic Chamber (3 metres). Emission levels were maximised by adjusting the antenna height, antenna polarisation and turntable azimuth.

Emissions identified within the range 30MHz – 1GHz were then formally measured using a Peak detector.

Emissions identified within the range 1GHz – 9GHz were then formally measured using Peak and Average Detectors, as appropriate.

The measurements were performed at a 3m distance unless otherwise stated.

## 2.4 RADIATED SPURIOUS EMISSIONS

### 2.4.6 Test Results

#### 30MHz – 1GHz Frequency Range

Equipment Designation: Intentional Radiator.

The EUT met the requirements of FCC CFR 47: Part 22, Subpart H, 22.917 and Industry Canada RSS-132, 6.5 for Radiated Emissions (30MHz – 1GHz).

No emissions were found from 30MHz to 1GHz for GPRS 850 Mode and EDGE 850 Mode on channels 128, 189 or 251.

#### 1GHz – 9GHz Frequency Range

Equipment Designation: Intentional Radiator.

The EUT met the requirements of FCC CFR 47: Part 22, Subpart H, 22.917 and Industry Canada RSS-132, 6.5 for Radiated Emissions (1GHz – 9GHz).

Measurements were made with the EUT in EDGE 850 Mode

#### **EUT Transmitting on Bottom Channel (824.20MHz)**

Frequency	Antenna Polarisation	Height	Azimuth	Peak Result	Peak Limit
MHz		cm	degree	dBm	dBm
1648.2	Horizontal	137	268	-23.1	-13.0
3290.6	Horizontal	100	148	-38.7	-13.0
4122.2	Horizontal	100	320	-39.8	-13.0
4943.9	Horizontal	126	171	-37.5	-13.0
5765.5	Horizontal	108	170	-29.8	-13.0
6597.2	Horizontal	100	077	-35.3	-13.0
7418.8	Horizontal	146	346	-30.4	-13.0

#### **EUT Transmitting on Middle Channel (836.40MHz)**

Frequency	Antenna Polarisation	Height	Azimuth	Peak Result	Peak Limit
MHz		cm	degree	dBm	dBm
1673.0	Horizontal	100	294	-21.3	-13.0
3345.0	Horizontal	113	210	-36.0	-13.0
4182.0	Horizontal	114	187	-35.1	-13.0
5018.0	Horizontal	100	160	-39.1	-13.0
5855.7	Horizontal	125	166	-31.6	-13.0
6697.0	Horizontal	122	070	-30.1	-13.0
7529.0	Horizontal	120	070	-34.0	-13.0

## 2.7 RADIATED SPURIOUS EMISSIONS

### 2.7.6 Test Results

#### EUT Transmitting on Top Channel (848.80MHz)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Result	Peak Limit
MHz		cm	degree	dBm	dBm
1697.4	Horizontal	164	240	-22.7	-13.0
3390.8	Horizontal	100	098	-39.4	-13.0
4242.5	Horizontal	100	190	-37.9	-13.0
5094.2	Horizontal	100	168	-38.2	-13.0
5945.9	Horizontal	100	290	-35.2	-13.0
6797.6	Horizontal	102	000	-25.9	-13.0
7649.3	Horizontal	100	245	-31.9	-13.0

Measurements were made with the EUT in EDGE 850 Mode

#### EUT Transmitting on Bottom Channel (824.20MHz)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Result	Peak Limit
MHz		cm	degree	dBm	dBm
1648.2	Horizontal	137	268	-23.1	-13.0
3290.6	Horizontal	100	148	-38.1	-13.0
4122.2	Horizontal	100	320	-39.8	-13.0
4943.9	Horizontal	126	171	-37.5	-13.0
5765.5	Horizontal	108	170	-29.8	-13.0
6597.2	Horizontal	100	77	-35.3	-13.0
7.418.8	Horizontal	146	346	-30.4	-13.0

## 2.7 RADIATED SPURIOUS EMISSIONS

### 2.7.6 Test Results

#### EUT Transmitting on Middle Channel (836.40MHz)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Result	Peak Limit
MHz		cm	degree	dBm	dBm
1673.0	Horizontal	100	294	-21.3	-13.0
3345.0	Horizontal	113	210	-36.0	-13.0
4182.0	Horizontal	114	187	-35.1	-13.0
5018.0	Horizontal	100	160	-39.1	-13.0
5855.7	Horizontal	125	166	-31.6	-13.0
6697.0	Horizontal	122	70	-30.1	-13.0
7529.0	Horizontal	120	70	-34.0	-13.0

#### EUT Transmitting on Top Channel (848.80MHz)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Result	Peak Limit
MHz		Cm	degree	dBm	dBm
1697.4	Horizontal	164	240	-22.7	-13.0
3390.8	Horizontal	100	98	-39.4	-13.0
4242.5	Horizontal	100	190	-37.9	-13.0
5094.2	Horizontal	100	168	-38.2	-13.0
5945.9	Horizontal	100	290	-35.2	-13.0
6797.6	Horizontal	102	0	-25.9	-13.0
7649.3	Horizontal	100	245	-31.9	-13.0



Product Service

### **SECTION 3**

#### **TEST EQUIPMENT**

### 3.1 TEST EQUIPMENT

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No	TE Number	Calibration Due
<b>Section 2.1 and 2.4 EMC - Radiated Emissions</b>				
Spectrum Analyser	Hewlett Packard	8542E	18	09/02/2007
Radiocommunications Tester	Rohde & Schwarz	CMU 200	39	07/07/2006
Signal Generator	Rohde & Schwarz	SWM 02	62	O/P MON
Amplifier	Miteq Corp	AMF-3d-001080-18-13P	231	O/P MON
DRG Antenna	EMCO	3115	234	01/07/2006
DRG Antenna	EMCO	3115	235	01/07/2006
Filter (High Pass, 3GHz)	RLC Electronics	E100-300-5-R	565	O/P MON
Signal Generator	Rohde & Schwarz	SMY01	1330	01/04/2006
EMI Test Receiver	Rohde & Schwarz	ESI26	1505	O/P MON
Bilog Antenna	Chase	CBL6111B	1508	16/04/2006
DRG Antenna	EMCO	3115	1509	O/P MON
DRG Antenna	EMCO	3115	1510	O/P MON
Pre Amplifier	Phase One	PS04-0085	1532	13/07/2006
Pre-Amplifier	Phase One	PS04-0086	1533	13/07/2006
Pre Amplifier	Phase One	PSO4-0087	1534	12/07/2006
Tuneable Notch filter	K&L 5wave	3TNF-500/1000	1535	O/P MON
Screened Room (5)	Rainford	Rainford	1545	01/03/2008
Mast Controller	Inn-Co GmbH	CO 1000	1606	O/P MON
Turntable/Mast Controller	EMCO	2090	1607	O/P MON
3m N-N RF Cable	Rosenberger	3899	1871	11/04/2006
15m N-N RF Cable	Rosenberger	FA210A-150M	2026	11/04/2006
EMI Test Receiver	Rohde & Schwarz	ESIB26	2028	06/05/2006
3GHz High Pass Filter	Sematron	E100-3000-5-R	2244	O/P MON
Amplifier (8GHz-18GHz)	Avantec	AWT-18036	2821	O/P MON
Hi Pass Filter	RLC Electronics	RLC-F100-1500-S	2843	16/05/2006
Bilog Antenna	Chase	CBL6143	2904	10/11/2007

### 3.1 TEST EQUIPMENT

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No	TE Number	Calibration Due
<b>Section 2.2 EMC - Conducted Emissions</b>				
Transient Limiter	Hewlett Packard	11947A	15	22/09/2006
LISN	Rohde & Schwarz	ESH2-Z5	17	22/02/2007
Test Receiver	Rohde & Schwarz	ESIB26	2085	26/09/2006
<b>Section 2.3 EMC - Maximum Output Power</b>				
Signal Generator	Rohde & Schwarz	SWM 02	62	O/P MON
Antenna (Double Ridge Guide, 1GHz-18GHz)	EMCO	3115	235	01/07/2006
Antenna (Dipole, 300MHz-1000MHz)	Schwarzbeck	UHAP	447	08/09/2007
Attenuator (10dB, 10W)	Marconi	6534/3	1048	O/P MON
Mast Controller	Inn-Co GmbH	CO 1000	1606	O/P MON
Turntable/Mast Controller	EMCO	2090	1607	O/P MON
Bilog Antenna	Chase	CBL6143	2904	10/11/2007
Dipole Holder	Index Sar	n/a	2989	O/P MON



### 3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter	MU
Radiated Emissions, Bilog Antenna, AOATS	30MHz to 1GHz Amplitude	5.1dB*
Radiated Emissions, Horn Antenna, AOATS	1GHz to 40GHz Amplitude	6.3dB*
Conducted Emissions, LISN	150kHz to 30MHz Amplitude	3.2dB*

Worst case error for both Time and Frequency measurement 12 parts in  $10^6$ .

\* In accordance with CISPR 16-4

† In accordance with UKAS Lab 34



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## **SECTION 4**

### **PHOTOGRAPHS**



#### 4.1 PHOTOGRAPHS OF EQUIPMENT UNDER TEST (EUT)



Radiated Emissions Test Setup



Conducted Emissions Setup

## **SECTION 5**

### **ACCREDITATION, DISCLAIMERS AND COPYRIGHT**

## 5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA  
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