

# TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Panasonic 921P (VS84)

To: FCC Part 15.225: 2006 (Subpart C)

Test Report Serial No: RFI/RPT1/RP73590JD07A

This Test Report Is Issued Under The Authority Of Steve Flooks, Radio Performance Group Service Leader:		
Maurim.		
Checked By: Nigel Davison	Report Copy No: PDF01	
Mussim.		
Issue Date: 10 July 2008	Test Dates: 13 June 2008 to 18 June 2008	

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# 1. Client Information

Company Name:	Panasonic Mobile Comms Dev of Europe Ltd	
Address:	Panasonic House Willoughby Road Bracknell Berkshire RG12 8FP	
Contact Name:	Mr M Hargreaves	

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# 2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

#### 2.1. Description of EUT

The equipment under test is a Dual mode (W-CDMA/GSM) Cellular Mobile Telephone with Bluetooth and RFID.

## 2.2. Identification of Equipment Under Test (EUT)

Description:	GSM Mobile Phone
Brand Name:	Panasonic
Model Name or Number:	921P (VS84)
IMEI Number:	004401220573188
FCC ID Number:	UCE208007A
Country of Manufacture:	Japan
Date of Receipt:	05 June 2008

Description:	GSM Mobile Phone
Brand Name:	Panasonic
Model Name or Number:	921P (VS84)
IMEI Number:	004401220573071
FCC ID Number:	UCE208007A
Country of Manufacture:	Japan
Date of Receipt:	05 June 2008

#### 2.3. Modifications Incorporated in the EUT

EUT with IMEI 004401220573071 was modified with external RF connectors to aid bench testing.

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## 2.4. Accessories

The following accessories were supplied with the EUT:

Description:	Mains AC charger	
Brand Name:	Kyushi Mitsumi	
Model Name or Number:	JET ZTDAA1	
Serial Number:	AC Charger #01	
Cable Length and Type:	1.5 metre / multicore	
Connected to Port	Charger	

Description:	Battery
Brand Name:	Sanyo
Model Name or Number:	UF463443(770mAh)
Serial Number:	VS84 Battery #8
Connected to Port	Power

Description:	Personal Hands Free (stereo)	
Brand Name:	Panasonic	
Model Name or Number:	EB-EM003	
Cable Length and Type:	1.8m / multi-core	
Connected to Port	AV Out port	

Description:	Micro-SD Memory Card
Brand Name:	Panasonic
Connected to Port	Dedicated micro-SD card port

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## 2.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Laptop PC
Model Name or Number:	SONY Vaio PCG-VX7/BD
Serial Number:	Serial number has been partially erased and cannot be read
Connected to Port:	USB

Description:	USB Cable
Model Name or Number:	None Stated
Serial Number:	None Stated
Cable Length and Type:	1.5m
Connected to Port:	USB

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## 2.6. Additional Information Related to Testing

Power Supply Requirement:	Internal battery Supply of: 3.7V (nominal)		
Intended Operating Environment:	Within GSM Coverage UMTS coverage area		
Equipment Category:	Bluetooth, GSM/GPRS, Short Range Device and UMTS FDD I		
Type of Unit:	Portable (Standalone battery powered device) Transceiver		
Transmit Frequency Range:	13.56 MHz to 13.56 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Single Channel	Not Applicable	13.56
Receive Frequency Range:	13.56 MHz to 13.56 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Single Channel	Not Applicable	13.56

# 2.7. Port Identification

Port	Description
1	Charge/Data
2	AV Out
3	USIM
4	Micro-SD

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## 3. Test Specification, Methods and Procedures

#### 3.1. Test Specifications

Reference:	FCC Part 15 Subpart C: 2006 (Sections 15.225)
Title:	Code of Federal Regulations, Part 15 (47CFR225) Radio Frequency Devices.

#### 3.2. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2001)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

#### 3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

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# 4. Deviations from the Test Specification

There were no deviations from the test specification.

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# 5. Operation of the EUT During Testing

## 5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated:

- Idle.
- Constantly transmitting at full power.

#### 5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

- The transmitter was enabled using a bespoke application on a laptop PC supplied by the Client. The PC was connected to the EUT via a USB cable. The PC and cable were disconnected once the EUT had been configured.
- Mains charger was connected to the EUT during Idle mode AC conducted and radiated spurious emissions testing.
- As the EUT was incapable of transmitting while charging no AC Mains Conducted Emissions (150 kHz to 30 MHz) was performed in transmit mode.

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# 6. Summary of Test Results

Range of Measurements	FCC Part 15	Port Type	Result
Receiver Mode AC Conducted Emissions (150 kHz to 30 MHz)	Section 15.107	AC Mains	Complied
Receiver Mode Radiated Spurious Emissions	Section 15.109	Enclosure	Complied
Transmitter Fundamental Field Strength	Section 15.225(a)	Antenna	Complied
Transmitter Radiated Spurious Emissions	Section 15.209	Enclosure	Complied
Transmitter Band Edge Radiated Emissions	Section 15.209	Antenna	Complied
Transmitter 20 dB Bandwidth	Section 2.1049	Antenna	Complied
Transmitter Frequency Stability (Temperature & Voltage Variation)	Section 15.225(c)	Antenna	Complied

## 6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.

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## 7. Measurements, Examinations and Derived Results

## 7.1. General Comments

- 7.1.1. This section contains test results only.
- 7.1.2. Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

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#### 7.2. Test Results

#### 7.2.1. Receiver Mode AC Mains Conducted Emissions

Ambient Temperature: 20°C Relative Humidity: 49%

7.2.1.1. Tests were performed in accordance with C63.4 Section 7 and relevant annexes.

7.2.1.2. Tests were performed to identify the maximum emission levels on the AC mains line of the EUT.

#### **Results:**

#### **Quasi-Peak Detector Measurements on Live and Neutral Lines**

Frequency (MHz)	Line	Level (dBμV)	Limit (dBµV)	Margin (dB)	Result
0.482000	Live	32.7	56.3	23.6	Complied
0.498000	Live	30.9	56.0	25.1	Complied
0.622000	Live	26.6	56.0	29.4	Complied
0.994000	Live	30.6	56.0	25.4	Complied
1.370000	Live	25.1	56.0	30.9	Complied
1.858000	Live	37.7	56.0	18.3	Complied
1.866000	Live	37.4	56.0	18.6	Complied
1.990000	Neutral	32.0	56.0	24.0	Complied
2.242000	Neutral	30.8	56.0	25.2	Complied
2.366000	Neutral	28.8	56.0	27.2	Complied

#### **Average Detector Measurements on Live and Neutral Lines**

Frequency (MHz)	Line	Level (dBμV)	Limit (dBµV)	Margin (dB)	Result
0.246000	Live	18.9	51.9	33.0	Complied
0.354000	Live	12.6	48.9	36.3	Complied
0.474000	Neutral	12.3	46.4	34.1	Complied
0.498000	Live	19.0	46.0	27.0	Complied
0.590000	Neutral	8.4	46.0	37.6	Complied
0.710000	Live	7.9	46.0	38.1	Complied
0.826000	Live	21.3	46.0	24.7	Complied
0.942000	Neutral	7.9	46.0	38.1	Complied
1.994000	Neutral	10.9	46.0	35.1	Complied
2.366000	Live	17.8	46.0	28.2	Complied

#### Note(s):

1. EUT IMEI: 004401220573188.

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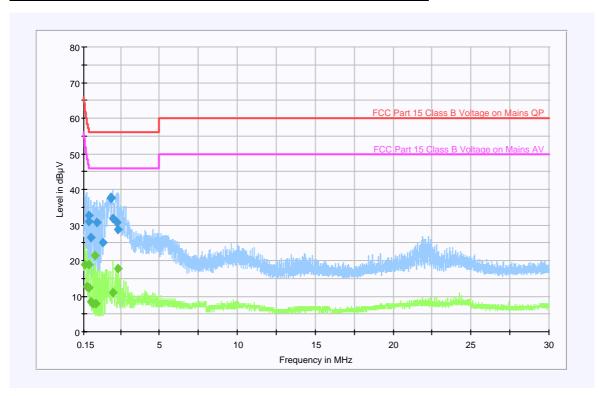
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## **Receiver Mode AC Mains Conducted Emissions (Continued)**



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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#### 7.2.2. Receiver Mode Radiated Spurious Emissions

Ambient Temperature: 18°C Relative Humidity: 41%

#### 7.2.3. Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)

Tests were performed in accordance with C63.4 Section 8 and relevant annexes.

Tests were performed to identify the maximum receiver or standby radiated emission levels.

#### **Results:**

Frequency	Antenna	Q-P Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
991.783	Horizontal	38.3	54.0	15.7	Complied

#### Note(s):

1. EUT IMEI: 004401220573188.

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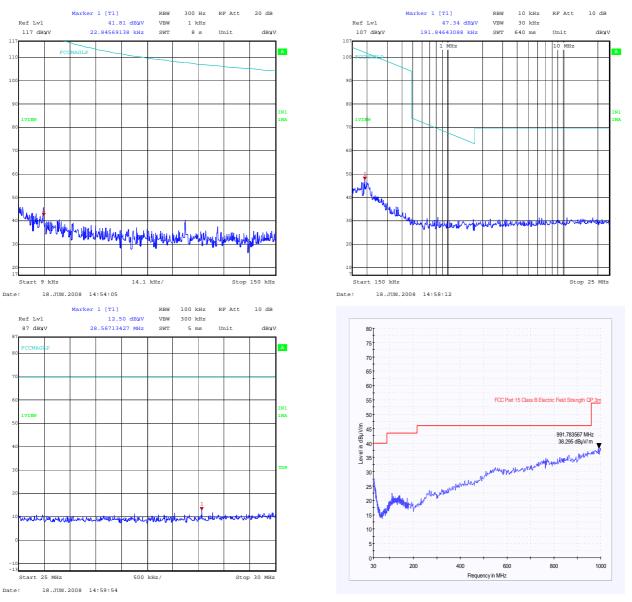
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## **Receiver Mode Radiated Spurious Emissions (Continued)**



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#### 7.2.4. Transmitter Fundamental Field Strength

Ambient Temperature: 20°C Relative Humidity: 45%

Tests were performed in accordance with C63.4 Section 8 and relevant annexes.

The limit is specified at a test distance of 30 metres. However as specified by section 15.31 (f(2)), measurements may be performed at a closer distance, and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

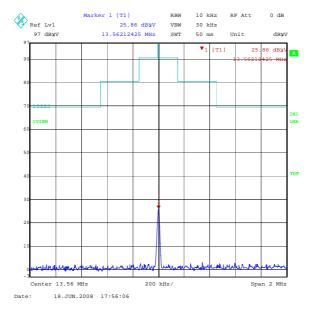
#### **Results:**

#### **Battery Powered Devices**

Frequency (MHz)	Antenna Polarity	Q-P Level (dBμV/m)	Limit at 30 metres (dBμV/m)	Margin (dB)	Result
13.56	Loop edge on to EUT	25.9	124.0	97.1	Complied

#### Note(s):

1. EUT IMEI: 004401220573188.



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#### 7.2.5. Transmitter Radiated Spurious Emissions

Ambient Temperature: 18°C Relative Humidity: 41%

#### 7.2.6. Electric Field Strength Measurements (Frequency Range: 9 kHz to 1000 MHz)

Tests were performed in accordance with C63.4 Section 8 and relevant annexes.

Tests were performed to identify the maximum radiated spurious emission levels.

Limits below 30 MHz are specified at test distance of 30 metres, whilst below 0.49 MHz they are specified at a test distance of 300 metres. However as specified by section 15.31 (f)(2), measurements may be performed at a closer distance, and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

#### Results:

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
135.596	Horizontal	31.4	43.5	12.1	Complied
311.866	Horizontal	28.6	46.0	17.4	Complied

#### Note(s):

1. EUT IMEI: 004401220573188.

2. The carrier is shown on the above plot at 13.5 MHz.

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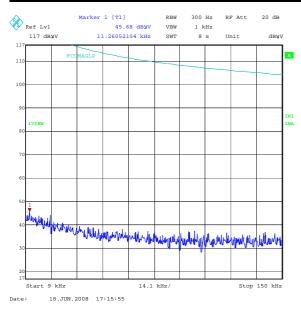
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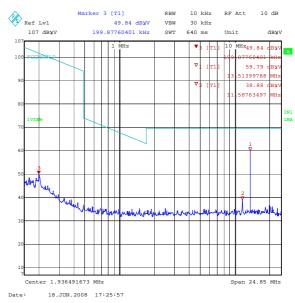
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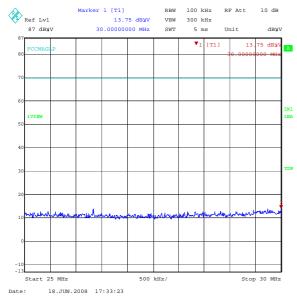
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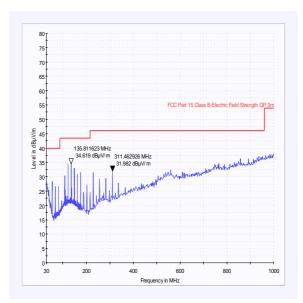
## **Transmitter Radiated Spurious Emissions (Continued)**











Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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#### 7.2.7. Transmitter Radiated Emissions at Band Edges

Ambient Temperature: 20°C Relative Humidity: 45%

Tests were performed in accordance with C63.4 Section 8 and relevant annexes.

Tests were performed to identify the maximum emissions level at the band edges of the frequency band that the EUT will operate over.

#### Results:

#### **Bottom Band Edge**

Frequency (MHz)	Q-P Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
13.11	1.6	80.5	78.9	Complied

#### **Top Band Edge**

Frequency	Q-P Level	Limit	Margin	Result
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	
14.01	2.0	80.5	78.5	Complied

#### Note(s):

1. EUT IMEI: 004401220573188.

2. Measurements were performed at 3 meters and the limit corrected accordingly.

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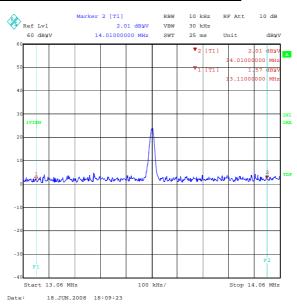
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## **Transmitter Radiated Emissions at Band Edges (Continued)**



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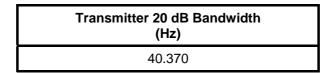
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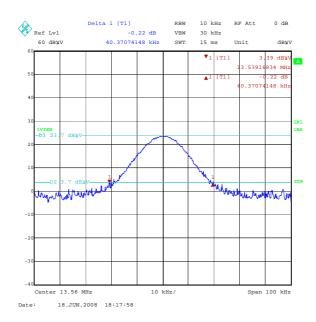
#### 7.2.8.Transmitter 20 dB Bandwidth

Ambient Temperature: 20°C Relative Humidity: 45%

Tests were performed in accordance with C63.4 Section 10.1.8.8 and 13.1.7 and relevant annexes with the only deviation being that the 20 dBc bandwidth was reported.

This test is not required to show compliance to 15.225 but has been included for information in order to aid Industry Canada (IC) applications.





Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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## 7.2.9. Transmitter Frequency Stability (Temperature & Voltage Variation)

Ambient Temperature: 20°C Relative Humidity: 45%

Tests were performed in accordance with C63.4 Section 10.1.8.7 and 13.1.6 and relevant annexes

Tests were performed to identify the maximum frequency error of the EUT with variations in nominal operating voltage at an ambient temperature of 20°C.

Tests were performed in accordance with FCC Part 2.1055 but over the frequency range specified in FCC Part 15.

#### Maximum frequency error of the EUT with variations in ambient temperature

Temp (°C)	Nominal Frequency	Measured Frequency	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Margin (%)	Result
-20	13.56	13.560172	+172	0.0013	0.01	0.0087	Complied
20	13.56	13.560085	+85	0.0006	0.01	0.0094	Complied
50	13.56	13.559947	-53	0.0004	0.01	0.0096	Complied

# Maximum frequency error of the EUT with variations in nominal operating voltage at an ambient temperature of 20°C

Supply Voltage (V)	Nominal Frequency	Measured Frequency	Frequency Error (Hz)	Frequency Error (%)	Limit (%)	Margin (%)	Result
3.4	13.56	13.560084	+84	0.0006	0.01	0.0094	Complied
3.7	13.56	13.560085	+85	0.0006	0.01	0.0094	Complied
4.2	13.56	13.560084	+84	0.0006	0.01	0.0094	Complied

#### Note(s):

1. EUT IMEI. 004401220573071.

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# 8. Measurement Uncertainty

8.1. No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

- 8.2. The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.
- 8.3. The uncertainty of the result may need to be taken into account when interpreting the measurement results.
- 8.4. The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±3.25 dB
Occupied Bandwidth	N/A	95%	±0.12 %
Frequency Stability	N/A	95%	±11.37 ppm
Radiated Spurious Emissions	9 kHz to 30 MHz	95%	±3.53 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	±5.26 dB

8.5. The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

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# **Appendix 1. Test Equipment Used**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A007	Antenna	Rohde & Schwarz	HFH2-Z2	880 458/020	28 Feb 2008	12
A008	Tripod	Rohde & Schwarz	HFU-Z	None	Calibration not required	-
A1037	Antenna	Chase EMC Ltd	CBL6112B	2413	29 May 2008	12
A1069	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	837469/012	07 Mar 2008	12
A1829	Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100671	16 Jan 2008	12
A490	Antenna	Chase	CBL6111A	1590	07 Feb 2008	12
A649	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	825562/008	07 Mar 2008	12
C1111	Cable	Semflex Inc.	X116BFSX100 80	0337	Calibrated before use	-
C363	Cable	Rosenberger	RG142	None	20 Apr 2008	12
E0513	Environmental Chamber	TAS	LT600 Series 3	23900506	Calibration not required	-
G088	Power Supply Unit	Thurlby Thandar	CPX200	100700	Calibration not required	-
M1249	Thermometer	Fluke	5211	88800049	20 Sep 2007	12
M1251	Digital Multimeter	Fluke	175	89170179	21 Dec 2007	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	06 Feb 2008	12
M1379	Test Receiver	Rohde and Schwarz	ESIB7	100330	02 Aug 2007	12
M295	Spectrum Analyser	Hewlett Packard	8564E	3846A01561	13 Nov 2007	12
S209	Anechoic Chamber	RFI	9	None	Verified before use	-
S212	Emissions Screened Room	RFI	12	None	Verified before use	-
S216	Site 16	RFI	16	None	Calibration not required	-

**NB** In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

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To: FCC Part 15.225: 2006 (Subpart C)

# **Appendix 2. Test Configuration Drawings**

This appendix contains the following drawings:

Drawing Reference Number	Title		
DRG\73590JD07\EMICON	Test configuration for measurement of conducted emissions.		
DRG\73590JD07\EMIRAD	Test configuration for measurement of radiated emissions.		

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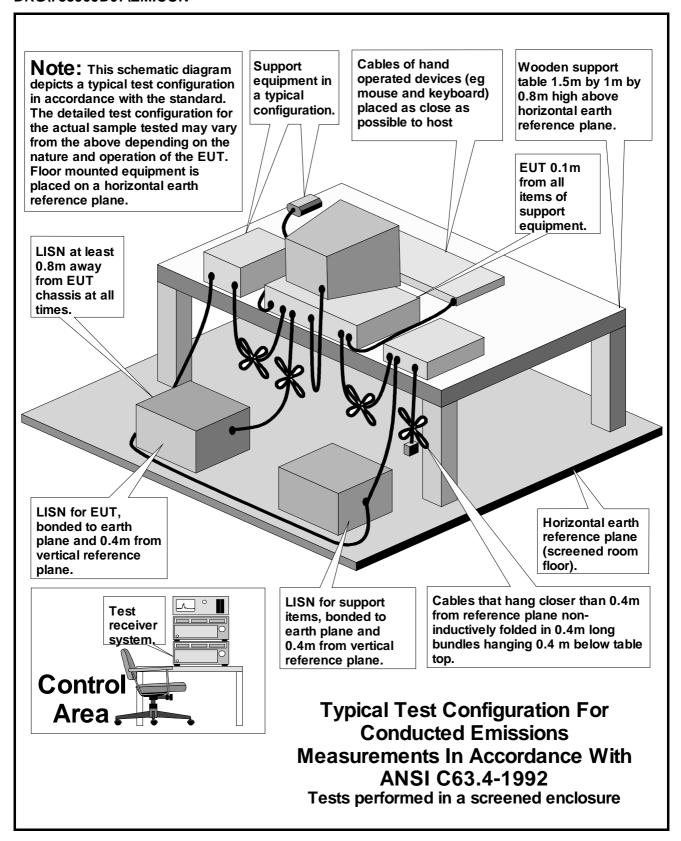
Issue Date: 10 July 2008

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