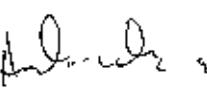


TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test of: Sendo Ltd.
Z100 PCS Mobile Telephone

To: FCC Part 24: 2001 and FCC Part 15: 2001

Test Report Serial No:
RFI/MPTB1/RP43987JD03A

This Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director: 	Checked By: 
Tested By: 	Release Version No: PDF01
Issue Date: 19 November 2002	Test Dates: 20 September 2002 to 30 October 2002

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Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, ENGLAND. Tel: +44 (0) 1256 851193 Fax: +44 (0) 1256 851192	Registered in England, No. 211 7901. Registered Office: Ewhurst Park, Ramsdell, Basingstoke, Hampshire RG26 5RQ	 UKAS TESTING 0644
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RADIO FREQUENCY INVESTIGATION LTD.

Operations Department

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Z100 PCS Mobile Telephone

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1. Client Information

Company Name:	Sendo Ltd
Address:	Sendo Base Station Hatchford Brook Hatchford Way Sheldon Birmingham B26 3RZ
Contact Name:	Mr M Roper

2. Equipment Under Test (EUT)

The following information has been supplied by the client:

2.1. Identification Of Equipment Under Test (EUT)

Brand Name:	Sendo
Model Name or Number:	Z100
Unique Type Identification:	SND100
Serial Number:	As IMEI on samples IMEI: 004400012060214
Country of Manufacture:	UK
FCC ID Number:	P6PSND100
Date of Receipt:	20 September 2002

Brand Name:	Sendo
Model Name or Number:	Electek Keyboard
Unique Type Identification:	None stated
Serial Number:	None stated
Country of Manufacture:	None stated
FCC ID Number:	None stated
Date of Receipt:	20 September 2002

Brand Name:	Sendo
Model Name or Number:	US Linear Charger 8D09-07313-20000
Unique Type Identification:	8D09-07313-20000
Serial Number:	As above, including 6 digit date code DD/MM/YY on product
Country of Manufacture:	China
FCC ID Number:	None stated by client
Date of Receipt:	20 September 2002

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Brand Name:	Sendo
Model Name or Number:	Stereo Headset 8P02-07000-00001
Unique Type Identification:	8P02-07000-00001
Serial Number:	As above, including 6 digit date code DD/MM/YY on plastic bag
Country of Manufacture:	China
FCC ID Number:	None stated by client
Date of Receipt:	20 September 2002

Brand Name:	Sendo
Model Name or Number:	Synchronisation Cradle 8P20-07000-01000
Unique Type Identification:	8P20-07000-01000
Serial Number:	As above, including 6 digit date code DD/MM/YY
Country of Manufacture:	China
FCC ID Number:	None stated by client
Date of Receipt:	20 September 2002

Brand Name:	Sendo
Model Name or Number:	USB Data Cable 8P21-07000-01000
Unique Type Identification:	8P21-07000-01000 on plastic bag
Serial Number:	As above, including 6 digit date code DD/MM/YY on plastic bag
Country of Manufacture:	China
FCC ID Number:	None stated by client
Date of Receipt:	20 September 2002

Test Of: Sendo Ltd.

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Identification Of Equipment Under Test (EUT) (continued)

Brand Name:	Sendo
Model Name or Number:	RS232 Data Cable 8P06-07000-01000
Unique Type Identification:	8P06-07000-01000
Serial Number:	As above, including 6 digit date code DD/MM/YY on plastic bag
Country of Manufacture:	Thailand
FCC ID Number:	None stated by client
Date of Receipt:	20 September 2002

2.2. Description Of EUT

The Z100 is a triple band GSM “Smartphone” operating in GSM 1900 (for US markets) and GSM 900/1800 in Europe. At no time can the GSM 900/1800 bands be used within the United States. The phone supports speech and data connections, and has a range of accessories tested with the phone for charging, connections to a CC for data transfer, and a personal headset.

The device uses a built in operating system to support applications such as e-mail and video/audio players, and has a TFT colour display.

2.3. Modifications Incorporated In EUT

The EUT has not been modified from what is described by the Model Name/Number and Unique Type Identification stated above.

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2.4. Additional Information Related To Testing

Power Supply Requirement: (non-removable lithium ion battery)	3.3 V to 3.7 V (3.6 V nominal)
Power Supply Requirement: (AC Battery Charger)	115 V, 60 Hz AC Mains Charger
Intended Operating Environment:	Within GSM Network Coverage
Equipment Category:	PCE/TNE
Type of Unit:	Cordless Telephone (PCS System Mobile Phone)
Weight:	4 oz (100 g) approx.
Dimensions:	122 mm (L) x 48 mm (W) x 19 mm (D)
Interface Ports:	Headset (audio) RS232 USB IrDa (infra red) DC In (Charger)
Transmit Frequency	Variable 1850 to 1910 MHz
Receive Frequency	Variable 1930 to 1990 MHz
Maximum Power Output	+33 dBm

Test Of: Sendo Ltd.**Z100 PCS Mobile Telephone****To: FCC Part 15: 2001 and FCC Part 24: 2001**

2.5. Support Equipment

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

Description:	Laptop PC
Brand Name:	Digital
Model Name or Number:	Hi Note Ultra II
Serial Number:	SR61600226
FCC ID Number:	None Stated by Client
Cable Length And Type:	3m
Connected to Port:	DC

Description:	Mains Power Adaptor
Brand Name:	Digital
Model Name or Number:	FR-PCP8H-AD
Serial Number:	02101724
FCC ID Number:	None Stated by Client
Cable Length And Type:	2m Mains, 1.5m Mains
Connected to Port:	AC

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Z100 PCS Mobile Telephone

To: FCC Part 15: 2001 and FCC Part 24: 2001

3. Test Specification, Methods And Procedures

3.1. Test Specifications

Reference:	FCC Part 24: 2001 Sections 24.232, 24.235, 24.238
Title:	Code of Federal Regulations, Part 24 (47CFR) Personal Communication Services.
Comments:	None.
Purpose of Test:	To determine whether the equipment complied with the requirements of the specification for the purposes of certification.

Reference:	FCC Part 15: 2001 Class B, Sections: 15.107 and 15.109
Title:	Code of Federal Regulations, Part 15 (47CFR) Radio Frequency Devices: Digital Devices.
Comments:	A description of the test facility used for this test is on file with, and has been accepted by, the Federal Communications Commission as required by Section 2.948 of Federal Rules.
Purpose of Test:	To determine whether the equipment complied with the requirements of the specification for the purposes of certification.

Reference:	FCC Part 2: 2001 Sections 2.1046 2.1049 2.1051 2.1055
Title:	Code of Federal Regulations, Part 2 (47CFR) Frequency allocations and radio treaty matters; General Rules and Regulations
Comments:	None.
Purpose of Test:	To determine whether the equipment complied with the requirements of the specification for the purposes of certification.

3.2. Methods And Procedures

The methods and procedures used were as detailed in:

47CFR: Part 24 (2001)

Title: Federal Communications Commission: Code of Federal Regulations 47: Personal Communication Services.

47CFR: Part 15 (2001)

Title: Federal Communications Commission: Code of Federal Regulations 47: Telecommunication

47CFR: Part 2 (2001)

Title: Federal Communications Commission: Code of Federal Regulations 47: Telecommunication

ANSI C63.2 (1996)

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 (1998)

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

None.

5. Operation Of The EUT During Testing

5.1. Operating Conditions

The EUT was tested in a normal laboratory environment.

5.2. Operating Modes

The EUT was tested in the following operating modes:

With the EUT in allocated mode, in top, middle and bottom channels and in receive mode.

5.3. Configuration and Peripherals

The EUT was tested in the following configuration:

Radiated or Conducted Pre-Scan tests were performed on the following configurations,

(a) Hands Free kit and Camera connected.

(b) Hands Free kit, USB cable and charger connected with phone seated in its Synchronisation Cradle and the USB cable terminated with a Laptop PC.

(c) Hands Free kit and Charger connected with phone seated in Electek Keyboard.

Once the worse case configuration was determined, final measurements were performed on this configuration.

NB Section 2 of this report contains a full list of support equipment used and Appendix 3 contains a schematic diagram of the test configuration.

6. Summary Of Test Results

6.1. Transmit Mode

Range Of Measurements	Specification Reference	Mode of Operation	Port Type	Compliance Status
Conducted RF Output Power	Part 24 of CFR 47: 2001, Section 2.1046(a)	Transmit	Antenna Terminals	Complied
Carrier Output Power (EIRP)	Part 24 of CFR 47: 2001, Section 24.232(b)	Transmit	Antenna	Complied
Frequency Stability (Temperature Variation)	Part 24 of CFR 47: 2001, Section 2.1055/24.235	Transmit	Antenna Terminals	Complied
Frequency Stability (Voltage Variation)	Part 24 of CFR 47: 2001, Section 2.1055/24.235	Transmit	Antenna Terminals	Complied
Occupied Bandwidth	Part 24 of CFR 47: 2001, Section 2.1049 (i)	Transmit	Antenna Terminals	Complied
Electric Field Strength, Spurious Emissions (30 MHz to 1000 MHz)	Part 2 of CFR 47: 2001, Section 2.1053/22.917/24.238	Transmit	Antenna	Complied
Electric Field Strength, Spurious Emissions (1 GHz to 20.0 GHz)	Part 2 of CFR 47: 2001, Section 2.1053/22.917/24.238	Transmit	Antenna	Complied
Emissions at Band Edges	Part 24 of CFR 47: 2001, Section 24.238	Transmit	Antenna Terminals	Complied
Emissions at Band Edges	Part 2 of CFR 47: 2001, Section 2.1053	Transmit	Antenna	Complied
Emissions Outside of Authorised Frequency Block	Part 24 of CFR 47: 2001, Section 2.1051/24.238	Transmit	Antenna Terminals	Complied

6.2. Receive Mode

Range Of Measurements	Specification Reference	Mode of Operation	Port Type	Compliance Status
Conducted Emissions (150 kHz to 30 MHz)	Part 15 of CFR 47: 2001, Section 15.107	Receive	AC Mains Input	Complied
Electric Field Strength, Spurious Emissions (30 MHz to 1000 MHz)	Part 2 of CFR 47: 2001, Section 2.1053/22.917/24.238	Transmit	Antenna	Complied
Electric Field Strength, Spurious Emissions (1 GHz to 10.0 GHz)	Part 15 of CFR 47: 2001, Section 15.109	Receive	Enclosure	Complied

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6.3. Location Of Tests

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

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.

7.2. Conducted RF Output Power: Section 2.1046(a)

7.2.1. The EUT, spectrum analyser and GSM test set were configured as for conducted port measurements.

7.2.2. Tests were performed to identify the maximum transmit power in accordance with FCC Part 2.1046(a) for conducted power.

7.2.3. The applicant provided a temporary antenna port to allow a direct connection to be made for conducted power measurements.

7.2.4. Results are shown for the EUT set to Bottom, Middle and Top channels using a fully charged battery. The battery nominally charged voltage is declared at 3.6 Volts:

Results:

Channel	Frequency (GHz)	Level (dBm)	Limit (dBm)	Margin	Result
Bottom	1.850211	27.34	33.00	5.66	Complied
Middle	1.879816	28.07	33.00	4.93	Complied
Top	1.909800	28.97	33.00	4.03	Complied

7.3. Carrier Output Power (EIRP): Section 24.232(b)

7.3.1. Tests were performed to identify the maximum transmit power in accordance with FCC Part 24.232(b) for EIRP.

7.3.2. Results are shown for the EUT set to Bottom, Middle and Top channels using a fully charged battery. The battery nominally charged voltage is declared at 3.6 Volts:

Results

Channel	Frequency (MHz)	Antenna Polarity (H/V)	Level EIRP (dBm)	Limit EIRP (dBm)	Margin	Result
Bottom	1850.301	Horiz.	25.00	33.00	8.00	Complied
Middle	1879.864	Horiz.	25.64	33.00	7.36	Complied
Top	1909.823	Horiz.	27.97	33.00	5.03	Complied

7.4. Frequency Stability Measurements: (Temperature and Voltage Variation): Sections 2.1055/24.235

7.4.1. The EUT and Will'Tek communication test set were configured for conducted antenna port measurements.

7.4.2. A temporary antenna port was provided by the applicant to allow for conducted measurements.

7.4.3. Measurements were performed to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of ambient temperature and variation of supply voltage.

7.4.4. The device is battery operated. The applicant has stated that the nominal voltage of the battery is 3.6 volts with a range from 3.3 V to 3.6 V. Extreme measurements were performed at these two voltage limits as requested in FCC Part 2.1055 (d) (2)

7.4.5. The ambient temperature was varied from -30°C to +50°C in 10°C steps. During the test the fundamental frequency of the EUT shall stay within the declared frequency block.

7.4.6. The ppm frequency error is calculated using the following formulae taken from the TIA_EIA_603A document.

$$\text{ppm error} = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) * 10^6$$

where MCF_{MHz} is the measured carrier frequency in MHz
 ACF_{MHz} is the assigned carrier frequency in MHz

7.4.7. The limit to the lower band edge from the bottom channel and the limit to the upper band edge from the top channel was calculated in ppm. The actual error in ppm is then calculated and subtracted from the calculated limit. If the margin was less than 0 the frequency would be outside of the authorised frequency block.

7.4.8. The client has stated that the authorised frequency block is:-

Lower Block Edge	1850 MHz
Upper Block Edge	1910 MHz

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Frequency Stability Measurements: (continued)**Results: Bottom Channel (1850.2 MHz)**

Temperature (°C)	DC Input Voltage (Volts)	Absolute Peak Frequency Error (Hz)	Frequency Error (ppm)	Limit to band Edge (ppm)	Margin (ppm)	Result
-30	3.3	8.0	0.004	108.108	108.104	Complied
	3.6	1.0	0.005	108.108	108.103	Complied
-20	3.3	12.0	0.006	108.108	108.102	Complied
	3.6	22.0	0.012	108.108	108.096	Complied
-10	3.3	17.0	0.009	108.108	108.099	Complied
	3.6	19.0	0.010	108.108	108.098	Complied
+0	3.3	27.0	0.015	108.108	108.094	Complied
	3.6	21.0	0.011	108.108	108.097	Complied
+10	3.3	19.0	0.010	108.108	108.098	Complied
	3.6	29.0	0.016	108.108	108.092	Complied
+20	3.3	15.0	0.008	108.108	108.100	Complied
	3.6	14.0	0.008	108.108	108.101	Complied
+30	3.3	7.0	0.004	108.108	108.104	Complied
	3.6	11.0	0.006	108.108	108.102	Complied
+40	3.3	5.0	0.003	108.108	108.105	Complied
	3.6	7.0	0.004	108.108	108.104	Complied
+50	3.3	4.0	0.002	108.108	108.106	Complied
	3.6	1.0	0.001	108.108	108.108	Complied

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Frequency Stability Measurements: (continued)**Results: Top Channel (1909.8 MHz)**

Temperature (°C)	DC Input Voltage (Volts)	Absolute Peak Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Margin (ppm)	Result
-30	3.3	9.0	0.005	104.712	104.707	Complied
	3.6	17.0	0.009	104.712	104.703	Complied
-20	3.3	20.0	0.010	104.712	104.702	Complied
	3.6	22.0	0.012	104.712	104.701	Complied
-10	3.3	19.0	0.010	104.712	104.702	Complied
	3.6	23.0	0.012	104.712	104.700	Complied
+0	3.3	26.0	0.014	104.712	104.698	Complied
	3.6	24.0	0.013	104.712	104.699	Complied
+10	3.3	26.0	0.014	104.712	104.698	Complied
	3.6	23.0	0.012	104.712	104.700	Complied
+20	3.3	21.0	0.011	104.712	104.701	Complied
	3.6	21.0	0.011	104.712	104.701	Complied
+30	3.3	17.0	0.009	104.712	104.703	Complied
	3.6	5.0	0.003	104.712	104.709	Complied
+40	3.3	7.0	0.004	104.712	104.708	Complied
	3.6	3.0	0.002	104.712	104.710	Complied
+50	3.3	4.0	0.002	104.712	104.710	Complied
	3.6	10.0	0.005	104.712	104.707	Complied

7.5. Transmitter Conducted Measurements: (Occupied Bandwidth): Sections 2.1049 (i)

7.5.1. The EUT and spectrum analyser were configured for conducted antenna port measurements.

7.5.2. A temporary antenna port was provided by the applicant to allow for conducted measurements.

7.5.3. The device was operating in its normal mode of operation.

7.5.4. Measurements were performed to determine the Occupied Bandwidth in accordance with FCC Part 2.1049. The Occupied Bandwidth was measured from the fundamental emission at the bottom, middle and top channels. The EUT is a PCS phone therefore no modulation input port was available. A call was setup using the PCS/GSM simulator using normal modulation and the Occupied Bandwidth was measured.

7.5.5. The Occupied Bandwidth was measured using the built in occupied bandwidth function of the Rohde and Schwarz FSEB spectrum analyser. It was set to measure the bandwidth where 99% of the signal power was contained. The analyser settings were set as per those outlined in the FSEB user manual for this measurement, i.e., RBW \leq 1/20 of occupied bandwidth.

Results:

Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
Bottom (512)	1850.2	3	10	279.1
Middle (660)	1879.8	3	10	268.8
Top (810)	1909.8	3	10	279.6

**7.6. Transmitter Conducted Measurements: (Emissions at Band Edges):
Section 24.238**

7.6.1. The EUT and spectrum analyser were configured as for conducted antenna port measurements.

7.6.2. A temporary antenna port was provided by the applicant to allow for conducted measurements.

7.6.3. FCC Part 24.238 states that emissions shall be attenuated by at least 43+10 Log (P) dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals.

7.6.4. FCC Part 24.238 also states that the 1st MHz band immediately adjacent to the applicants declared frequency block may be measured using a resolution bandwidth of at least 1% of the emission bandwidth. This bandwidth was found to be 3 kHz.

7.6.5. The highest level within these 1 MHz bands was thus measured and recorded in the tables below.

7.6.6.7.6.6. The spurious attenuation level in dB is described in TIA_EIA_603A and is defined as: -

$$\text{dB} = 10 \log_{10} \left(\frac{\text{TX power in watts}}{0.001} \right) - \text{spurious level (dBm)}$$

Results:**Bottom Band Edge**

Frequency (MHz)	Peak Emission Level (dBm)	Spurious Attenuation (dBc)	Limit (dBc)	Margin (dB)	Result
1850.000	-15.89	43.2	40.3	2.9	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Spurious Attenuation (dBc)	Limit (dBc)	Margin (dB)	Result
1910.000	-17.69	46.7	42.0	4.7	Complied

7.7. Transmitter Radiated Measurements: (Emissions at Band Edges):
Section 2.1053

7.7.1. FCC Part 24.238 states that emissions shall be attenuated by at least $43+10 \log(P)$ dB below the transmitter power (P). It also states that the 1st MHz band immediately adjacent to the applicants declared frequency block may be measured using a resolution bandwidth of at least 1% of the emission bandwidth. This bandwidth was found to be 3 kHz.

7.7.2. The highest level within these 1 MHz bands was thus measured and recorded.

7.7.3. The limit is specified as $43+10 \log (P)$ dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals.

7.7.4. The radiated spurious emission level in dB is described in TIA_EIA_603A and is defined as: -

$$\text{dB} = 10 \log_{10} \left(\frac{\text{TX power in watts}}{0.001} \right) - \text{spurious level (dBm)}$$

7.7.5. The emissions limit was determined by first calculating the spurious attenuation based on conducted power (P). The EUT was then replaced by a dipole and signal generator, the generator was set to power level (P) and the equivalent field strength was determined at 3 meters. The spurious attenuation level calculated in the previous step was then subtracted from the measured field strength to obtain the correct spurious attenuation limit.

Results:

Bottom Band Edge

Frequency (MHz)	Peak Emission Level (dBuV/m)	Radiated Spurious Emission (dBc)	Limit (dBc)	Margin (dB)	Result
1850.000	71.21	53.1	40.3	12.8	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBuV/m)	Radiated Spurious Emission (dBc)	Limit (dBc)	Margin (dB)	Result
1910.000	77.63	48.3	42.0	6.3	Complied

7.8. Transmitter Conducted Measurements: (Emissions Outside of Authorised Frequency Block): Section 2.1051/24.238

7.8.1. The EUT and spectrum analyser were configured as for conducted antenna port measurements.

7.8.2. The applicant provided a temporary antenna port to allow for conducted measurements.

7.8.3. FCC Part 24.238 states that emissions shall be attenuated by at least $43 + 10 \log(P)$ dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals in each channel.

Results:

Channel	Frequency (MHz)	Peak Emission Level (dBm)	Spurious Attenuation (dBc)	Limit (dBc)	Margin (dB)	Result
Bottom	3703.3	-36.38	63.7	40.3	23.4	Complied
Middle	3763.3	-31.78	59.9	41.1	18.8	Complied
Top	3823.3	-28.96	57.9	42.0	15.9	Complied

7.9. Transmitter Radiated Emissions: Section 2.1053/24.238**7.9.1. Electric Field Strength Measurements: 30 to 1000 MHz**

7.9.1.1. Preliminary Radiated spurious scans were performed with the EUT set to the Middle channel. Any visible spurious was then measured with the device set to top, bottom and middle channels.

7.9.1.2. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector at a test distance of 3m (results incorporate antenna factors and cable losses):

7.9.1.3. The limit is specified as $43 + 10 \log (P)$ dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals.

7.9.1.4. The radiated spurious emission level in dB is described in TIA_EIA_603A and is defined as: -

$$\text{dB} = 10 \log_{10} \left(\frac{\text{TX power in watts}}{0.001} \right) - \text{spurious level (dBm)}$$

7.9.1.5. The emissions limit was determined by first calculating the spurious attenuation based on conducted power (P). The EUT was then replaced by a dipole and signal generator, the generator was set to power level (P) and the equivalent field strength was determined at 3 meters. The spurious attenuation level calculated in the previous step was then subtracted from the measured field strength to obtain the correct spurious attenuation limit.

Results:

7.9.1.6. All radiated emissions below 1 GHz were found to be greater than 20 dB below the relevant limit.

7.10. Transmitter Radiated Emissions: Section 2.1053/24.238**7.10.1. Electric Field Strength Measurements: 1 to 26 GHz**

7.10.1.1. The client has stated that the highest clock frequency for the EUT was 1.9101 GHz. Therefore tests were performed up to 26 GHz.

7.10.1.2. Preliminary Radiated spurious scans were performed with the EUT set to the Middle channel. Any visible spurious was then measured with the device set to top, bottom and middle channels.

7.10.1.3. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector at a test distance of 3m (results incorporate antenna factors and cable losses):

7.10.1.4. The limit is specified as 43+10 Log (P) dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals.

7.10.1.5. The radiated spurious emission level in dB is described in TIA_EIA_603A and is defined as: -

$$\text{dB} = 10 \log_{10} \left(\frac{\text{TX power in watts}}{0.001} \right) - \text{spurious level (dBm)}$$

7.10.1.6. The emissions limit was determined by first calculating the spurious attenuation based on conducted power (P). The EUT was then replaced by a dipole and signal generator, the generator was set to power level (P) and the equivalent field strength was determined at 3 meters. The spurious attenuation level calculated in the previous step was then subtracted from the measured field strength to obtain the correct spurious attenuation limit.

Highest Peak Level:- Bottom Channel

Frequency (GHz)	Antenna Polarity (H/V)	Actual Peak Level (dB μ V/m)	Radiated Spurious Emission (dBc)	Limit (dBc)	Margin (dB)	Result
3.700399	Horiz.	75.13	49.61	40.3	9.3	Complied
3.700399	Vert.	74.82	49.92	40.3	9.6	Complied
5.550527	Horiz.	59.03	65.71	40.3	25.4	Complied
5.550527	Vert.	61.87	62.87	40.3	22.5	Complied
7.400899	Horiz.	71.43	53.31	40.3	13.0	Complied
7.400899	Vert.	71.00	53.74	40.3	13.4	Complied
9.251077	Horiz.	63.27	61.47	40.3	21.1	Complied
9.251077	Vert.	67.68	57.06	40.3	16.7	Complied

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Frequency (GHz)	Antenna Polarity (H/V)	Actual Peak Level (dB μ V/m)	Radiated Spurious Emission (dBc)	Limit (dBc)	Margin (dB)	Result
3.700399	Horiz.	55.56	69.91	41.07	28.8	Complied
3.700399	Vert.	52.06	73.41	41.07	32.3	Complied
5.550527	Horiz.	43.56	81.91	41.07	40.8	Complied
5.550527	Vert.	42.74	82.73	41.07	41.7	Complied
7.400899	Horiz.	45.66	79.81	41.07	38.7	Complied
7.400899	Vert.	42.28	83.19	41.07	42.1	Complied
9.251077	Horiz.	39.31	86.16	41.07	45.1	Complied
9.251077	Vert.	41.50	83.97	41.07	42.9	Complied

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Frequency (GHz)	Antenna Polarity (H/V)	Actual Peak Level (dB μ V/m)	Radiated Spurious Emission (dBc)	Limit (dBc)	Margin (dB)	Result
3.700399	Horiz.	58.53	67.84	41.97	25.9	Complied
3.700399	Vert.	56.92	69.45	41.97	27.5	Complied
5.550527	Horiz.	43.63	82.74	41.97	40.8	Complied
5.550527	Vert.	42.59	83.78	41.97	41.8	Complied
7.400899	Horiz.	45.41	80.96	41.97	39.0	Complied
7.400899	Vert.	39.96	86.41	41.97	44.4	Complied
9.251077	Horiz.	43.86	82.51	41.97	40.5	Complied
9.251077	Vert.	40.79	85.58	41.97	43.6	Complied

7.11. AC Mains Conducted Emissions: Receive Mode: Section 15.107**7.11.1. Quasi-Peak Detector Measurements On Live And Neutral Lines**

7.11.1.1. Preliminary conducted spurious scans were performed with the EUT set to Middle channel. Any visible spurious was then measured with the device set to top, bottom and middle channels.

7.11.1.2. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector:

Freq. (MHz)	Q-P Level (dB μ V)	Av. Level (dB μ V)	Q-P Limit (dB μ V)	Av. Limit (dB μ V)	Q-P Margin (dB)	Av. Margin (dB)	Result
0.18038	26.54	20.90	64.47	54.47	37.93	33.57	Complied
0.23131	23.21	17.60	62.40	52.40	39.19	34.80	Complied
0.32811	19.83	14.63	59.50	49.50	39.67	34.87	Complied
0.37438	18.74	13.54	58.40	48.40	39.66	34.86	Complied
1.40828	14.53	9.93	56.00	46.00	41.47	36.07	Complied
1.47597	14.43	9.85	56.00	46.00	41.57	36.15	Complied

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
Carrier Output Power	Not applicable	95%	+/- 1.78 dB
Conducted Emissions (AC)	0.15 MHz to 30 MHz	95%	+/- 3.25 dB
Conducted Emissions Antenna Port	0.009 kHz to 26 GHz	95%	+/- 2.9 dB
Radiated Emissions at 3.0 metres	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Emissions at 3.0 metres	1 GHz to 26 GHz	95%	+/- 1.78 dB
Frequency Stability	Not applicable	95%	+/- 20 Hz
Occupied Bandwidth	824 to 849 MHz 1850 to 1910 MHz	95%	+/- 0.12 %
Emissions at Band Edges	824 to 849 MHz 1850 to 1910 MHz	95%	+/- 2.9 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.

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
A027	Horn Antenna	Eaton	9188-2	301
A031	2 to 4 GHz Eaton Horn Antenna	Eaton	91889-2	557
A1077	3020A	Narda	3020A	40140
A1141	HP 11691D	Hewlett Packerd	11691D	1212A02494
A243	20 dB Attenuator	Schaffner	6820-17-B	None
A244	20 dB Attenuator	Schaffner	6820-17-B	None
A262	Narda 771-03 Attenuator	Narda	771-03	None
A429	WG 16 horn	Flann	16240-20	561
A436	WG 20 horn	Flann	20240-20	330
A438	WG 18 horn	Narda	439	8508
A439	WG 14 horn	Narda	642	8610
C1003	Cable	Rosenberger	FA210A1030 M50509	001
C1034	Coaxial Cable	Rosenburger	UFA210A-1- 1181-70X70	1981
C574	C574-N-N-2	Rosenberger	UFA210A-1- 788-50x50	97E0937
E013	PCN Environmental Chamber	Sanyo	ATMOS chamber	None
G011	SMGU Signal Generator	Rohde & Schwarz	SMGU	894 054/004
G048	SMY Signal Generator	Rohde & Schwarz	SMY 01	841 104/032
M025	Fluke 87 Multimeter	Fluke	87	473 50093
M069	ESMI Spectrum Analyser / Receiver	Rohde & Schwarz	ESMI	829 808/007 (DU) / 827 063/008 (RU)
M1013	GSM Test set	Hewlett Packard	8922M	3503U00372
M1014	DCS Test set	Hewlett Packard	83220E	3741U02702
M1093	Will tek	Will tek	4202S	0513018
M133	Temperature/Humidity/Pressure Meter	RS Components	None	None

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Test Equipment Used (continued)

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
M198	Thermal Power Sensor	Rohde & Schwarz	NRV-Z52	827 191/003
M199	Power Meter	Rohde & Schwarz	NRVS	827023/075
S507	PSU	Weir	4000	988670/667

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

Appendix 2. Measurement Methods

A2.1 FCC Part 24.232: Effective Isotropic Radiated Power (EIRP)

A2.1.1 EIRP measurements were performed in accordance with the standard, against appropriate limits.

A2.1.2 The EIRP was measured with the EUT arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4. The transmitter was fitted with an integral antenna, as such tests were run with the unit operating into the integral antenna.

A2.1.3 The level of the EIRP was measured using a spectrum analyser. Its amplitude was maximised by first raising and lowering the test antenna in the horizontal plane. The turntable was then rotated through 360 degrees to determine the maximum reading. The maximum reading was then recorded. This procedure was then repeated for the Vertical polarity.

A2.1.4 Once the final amplitude (maximised) had been obtained, the EIRP was measured by using a substitution method.

A2.1.5 The substitution method involved replacing the EUT with a substitution antenna. For EIRP measurements a Horn antenna who's gain was based on an isotropic antenna was used. The centre of the substitution antenna was set to approximately the same centre location as the EUT. The substitution antenna was set to the horizontal polarity. The substitution antenna was then connected to and fed by a signal generator tuned to the EUT's operating frequency. The tests antenna was then raised and lowered to obtain a maximum reading on the spectrum analyser. The level of the signal generator output was then adjusted until the previously recorded maximum level for this set of conditions was obtained. This procedure was repeated with both antennas vertically polarised. The EIRP was then taken as:-

$$\text{EIRP} = \text{Signal Generator Level} - \text{Cable Loss} + \text{Antenna Gain}$$

A2.1.6 All measurements were performed using broadband Horn antennas.

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A2.1.7 The test equipment settings for EIRP measurements were as follows:

Receiver Function	Final Measurements
Detector Type:	Peak
Mode:	Not applicable
Bandwidth:	1 MHz
Amplitude Range:	20 dB
Measurement Time:	> 1 s
Observation Time:	> 15 s
Sweep Time:	Coupled

A2.2 FCC Part 2.1055: Frequency Stability

A2.2.1 The EUT was situated within an environmental test chamber and connected to test equipment via and access port.

A2.2.1 Measurements were performed with the EUT operating under extremes of temperature in 10 degree increments within the range –30 to 50 Deg C.

A2.2.1 Measurements were also performed at voltage extremes between the declared nominal supply voltage and at the declared endpoint voltage.

A2.2.1 The requirement was to determine the frequency stability of the device under specified environmental operating conditions.

A2.2.2 Measurements were made on the top, middle and bottom channels.

A2.2.3 The EUT was switched off for a minimum of 30 minutes between each stage of testing while the environmental chamber stabilised at the next temperature within the stated temperature range.

A2.2.4 The frequency error measured was converted to an error in ppm using the following formula as defined by TIA_EIA_603A :-

$$\text{ppm error} = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) * 10^6$$

where MCF_{MHz} is the measured carrier frequency in MHz
 ACF_{MHz} is the assigned carrier frequency in MHz

A2.2.5 The measured ppm had to be less then the relevant limits in order to comply.

A2.3 Conducted Antenna Port Measurements: FCC Part 2.1051:

A2.3.1 Spurious measurements at the Antenna port were performed from the lower frequency of the allocated frequency block and from the top frequency of the allocated frequency block to 10 times the highest EUT generated frequency.

A2.3.2 A measuring receiver was connected to the antenna port of the EUT via a suitable cable and RF Attenuator. The total loss of both the cable and the attenuator were measured and entered as a reference level offset into the measuring receiver to correct for the losses.

A2.3.3 The specified frequency band was investigated with the transmitter operating at full power on the middle channel. Any spurious noted was then measured with the transmitter set to top, bottom and middle channels.

A2.3.1 The EUT was then replaced with a signal generator who's frequency was set to the indicated spurious frequency and who's level was adjusted to equal that recorded in section from the EUT. The level final recorded level was that reported by the signal generated.

A2.3.2 The test equipment settings for conducted antenna port measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak/Average
Mode:	Max Hold	Not applicable	Not applicable
Bandwidth:	100 kHz	120 kHz	1 MHz
Amplitude Range:	60 dB	20 dB	20 dB (typical)
Measurement Time:	Not applicable	> 1 s	> 1 s
Observation Time:	Not applicable	> 15 s	> 15 s
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

* The resolution bandwidth used for measurements in the 1 MHz blocks either side of the declared operating frequency block was set to 3 kHz.

A2.4 FCC Part 2.1049 (i): Occupied Bandwidth

A2.4.1 The EUT was connected to a spectrum analyser via its temporary antenna port.

A2.4.1 Measurements were performed to determine the Occupied Bandwidth in accordance with FCC Part 2.1049. The Occupied Bandwidth was measured from the fundamental emission at the bottom middle and top channels. The EUT is a PCS phone therefore no modulation input port was available. A call was thus setup using the PCS/GSM simulator and using normal modulation. The Occupied Bandwidth was measured in this configuration.

A2.4.2 The Occupied Bandwidth was measured using the built in occupied bandwidth function of the Rohde and Schwarz FSEB spectrum analyser. It was set to measure the bandwidth where 99% of the signal power was contained. The analyser settings were set as per those outlined in the FSEB user manual for this measurement, i.e., $RBW \leq 1/20$ of occupied bandwidth. A value of 3kHz was used.

A2.5 FCC Part 15: AC Mains Conducted Emissions

A2.5.1 AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A2.5.2 The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane.

A2.5.3 Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

A2.5.4 During the swept measurements (and also during subsequent final measurements on single frequencies) any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

A2.5.5 Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

A2.5.6 The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)/Average
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz*	9 kHz*
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	> 1 s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

* Where measurements were made below 150 kHz a 200 Hz bandwidth was used.

A2.6 Radiated Emissions: FCC Part 15 and 24

A2.6.1 Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A2.6.2 Initial pre-scans covering the entire measurement band from the lowest generated frequency up to the highest specified frequency were performed within a screened chamber in order to identify frequencies on which the EUT was generating interference. This determined the frequencies from the EUT with required further attention. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT.

A2.6.3 The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested on the open area test site, at the appropriate distance, using a measuring receivers with a Quasi-Peak detector (below 1000 MHz), where applicable, for measurements above 1000 MHz average and peak detectors were used.

A2.6.4 For the main (final) measurements the EUT arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4.

A2.6.5 On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360° and then varying the antenna height between 1 m and 4 m in the horizontal polarisation. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT. The procedure was repeated for the vertical polarisation.

A2.6.6 The final field strength was determined as the indicated level in dBuV plus cable loss and antenna factor.

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A2.6.7 The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak/Average
Mode:	Max Hold	Not applicable	Not applicable
Bandwidth:	(120 kHz < 1GHz) (1MHz > 1GHz)	120 kHz	1 MHz (If Applicable)
Amplitude Range:	60 dB	20 dB	20 dB (typical)
Measurement Time:	Not applicable	> 1 s	> 1 s
Observation Time:	Not applicable	> 15 s	> 15 s
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

Appendix 3. Test Configuration Drawings

This appendix contains the following drawings:

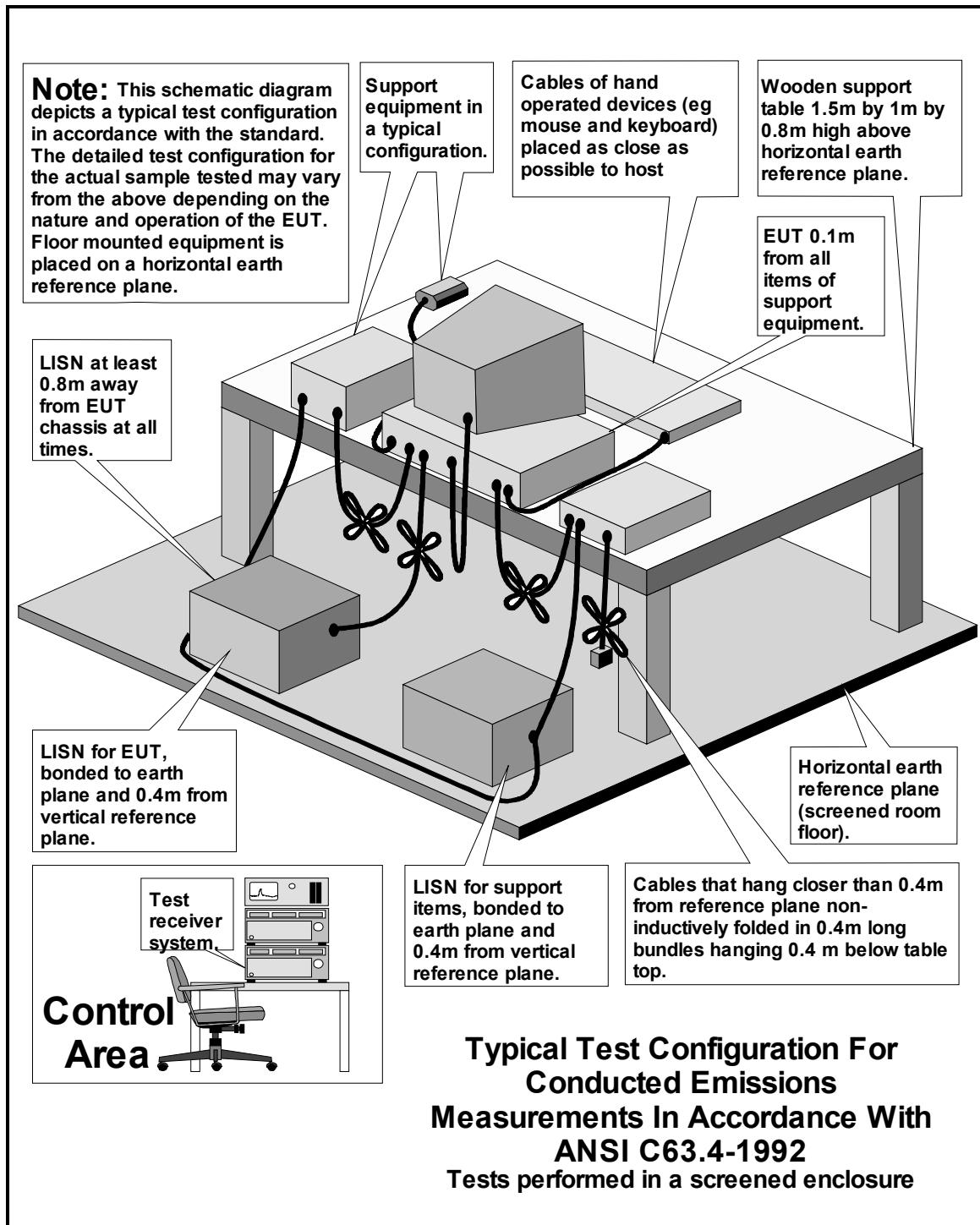
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DRG\43987JD03\EMIRAD	Test configuration for measurement of radiated emissions
DRG\43987JD03\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for Configuration A.
DRG\43987JD03\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for Configuration B.
DRG\43987JD03\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for Configuration C.

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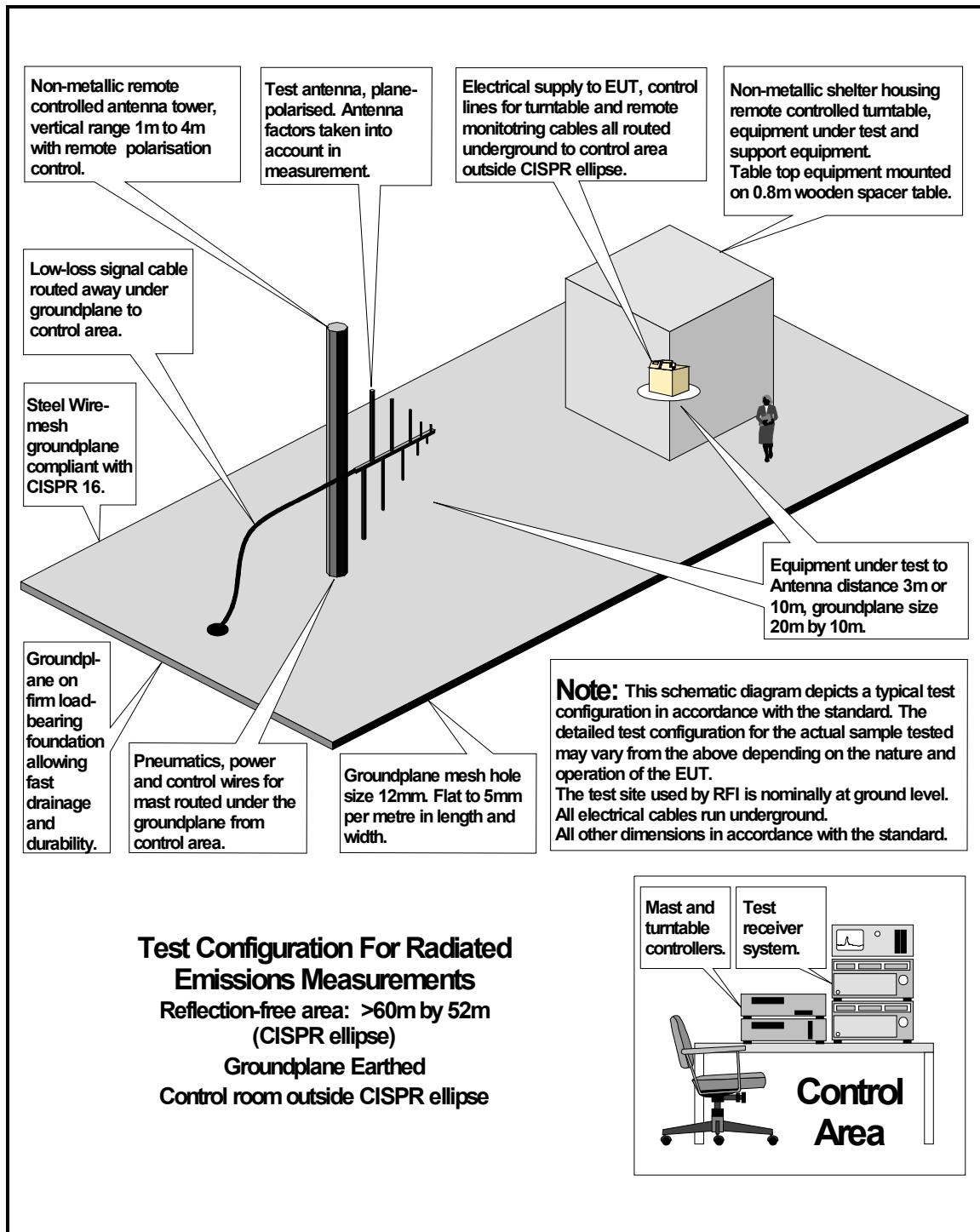


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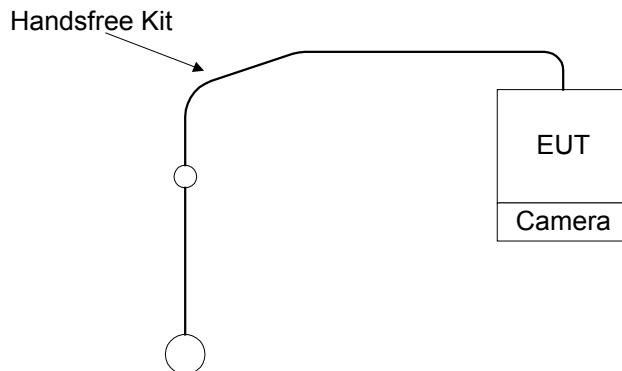
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Configuration of EUT and Local Support Equipment for Configuration A



Configuration of Remote Support Equipment

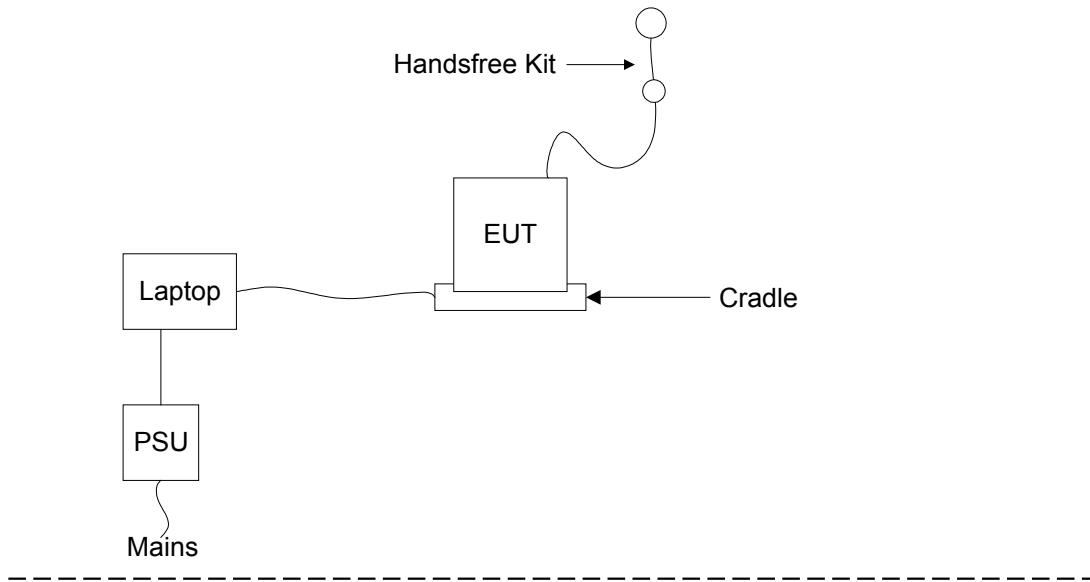
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Configuration of EUT and Local Support Equipment for Configuration B



Configuration of Remote Support Equipment

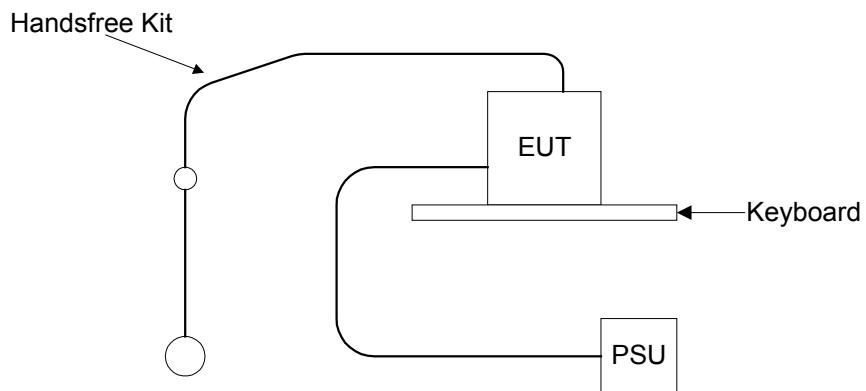
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Configuration of EUT and Local Support Equipment for Configuration C.



Configuration of Remote Support Equipment

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