

# SUPPLEMENTARY TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test Of: Sendo Ltd.  
SND251Mobile Telephone Handset

To: OET Bulletin 65 Supplement C: (2001-01)

**Supplementary Test Report Serial No.:**  
RFI/SARB1/SUP43652JD05A

<b>This Supplementary Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director:</b>  	<b>Checked By:</b>  
<b>Tested By:</b>   PP	<b>Release Version No:</b> PDF01
<b>Issue Date:</b> 19 November 2002	<b>Test Date:</b> 04 September 2002

**This supplementary report, supplements RFI Test Report Serial No: RFI/SARB1/RP43652JD05A.**

**This supplementary report has been issued to include SAR scans associated with validation measurements.**

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This supplementary report may be copied in full. The results in this supplementary report apply only to the sample(s) tested.

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**Operations Department**

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## **1. Client Information**

<b>Company Name:</b>	Sendo Ltd.
<b>Address:</b>	Sendo Base Station, Hatchford Brook, Hatchford Way, Sheldon, Birmingham, B26 3QA.
<b>Contact Name:</b>	Mr. M. Roper.

## **2. Equipment Under Test (EUT)**

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

### **2.1. Identification Of Equipment Under Test (EUT)**

<b>Brand Name</b>	Sendo
<b>Model Name or Number</b>	SND 251
<b>Unique Type Identification</b>	SND 251
<b>IMEI Number</b>	0010310167526
<b>Battery Serial Number</b>	8D47-02140-200000091T
<b>Country Of Manufacture</b>	Czech Republic
<b>Date Of Receipt</b>	03 September 2002

<b>Brand Name</b>	Sendo
<b>Model Name or Number</b>	Personal Hands Free Headset 8P02-02000-21000
<b>Unique Type Identification</b>	8P02-02000-21000 (Sales Pack Part Number: 8M14-02000-20000)
<b>Serial Number</b>	As above, including 6 digit date code DD/WW/YY on plastic bag
<b>Country Of Manufacture</b>	China
<b>Date Of Receipt</b>	03 September 2002

<b>Brand Name</b>	Sendo
<b>Model Name or Number</b>	Case (2 types)
<b>Unique Type Identification</b>	None Stated by client
<b>Serial Number</b>	None Stated by client
<b>Country Of Manufacture</b>	None Stated by client
<b>Date Of Receipt</b>	03 September 2002

### **2.2. Modifications Incorporated In EUT**

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

**2.3. Additional Information Related to the EUT**

<b>Equipment Class:</b>	Handheld Mobile Telephone
<b>FCC Rule Part(s):</b>	OET Bulletin 65 Supplement C
<b>Application Type:</b>	Certification
<b>Transmitter Frequency Range</b>	824.2 – 849.0
<b>850 MHz Band (MHz):</b>	
<b>Receiver Frequency Range</b>	869.0 – 894.0
<b>850 MHz Band (MHz):</b>	
<b>Transmitter Frequency Range</b>	1850 – 1910
<b>1900 MHz Band (MHz):</b>	
<b>Receiver Frequency Range</b>	1930 – 1990
<b>1900 MHz Band (MHz):</b>	
<b>Transmit Frequency Allocation Of EUT When Under Test (Channels):</b>	850 MHz – 128, 189, 251 1900 MHz – 512, 660, 810
<b>Modulation(s):</b>	GSM 850 and GSM 1900
<b>Modulation Scheme (Crest Factor)</b>	GSM (Crest Factor 8)
<b>Measured Output Power (Max Conducted):</b> <b>850 MHz</b>	Bottom Channel (128): 32.7 dBm Middle Channel (189): 32.9 dBm Top Channel (251): 33.1 dBm
<b>Measured Output Power (Max Conducted):</b> <b>1900 MHz</b>	Bottom Channel (512): 30.0dBm Middle Channel (660): 29.9 dBm Top Channel (810): 29.6 dBm
<b>Battery Type(s):</b>	Rechargeable NiMH
<b>Antenna Length and Type:</b>	Fixed Integral
<b>Number Of Antenna Positions</b>	1 (Fixed Antenna)
<b>Intended Operating Environment:</b>	Residential, Commercial, Light Industry
<b>Weight:</b>	Approx. 100 g
<b>Dimensions (without Antenna) mm:</b>	Approx. 50 x 25 x 100 mm
<b>Power Supply Requirement:</b>	
<b>DC Supply (Volts/Amps)</b>	Not applicable
<b>AC Supply (Volts/Amps)</b>	Not applicable
<b>Internal Battery (Volts/Amps)</b>	+ 3.6 V
<b>Port(s):</b>	Enclosure Personal Hands Free Connector

**2.4. Support Equipment**

<b>Description:</b>	GSM Test set
<b>Brand Name:</b>	Will'tek
<b>Model Name or Number:</b>	4202S
<b>Serial Number:</b>	0513018
<b>Cable Length And Type:</b>	Not applicable (Air Link)
<b>Connected to Port:</b>	Antenna

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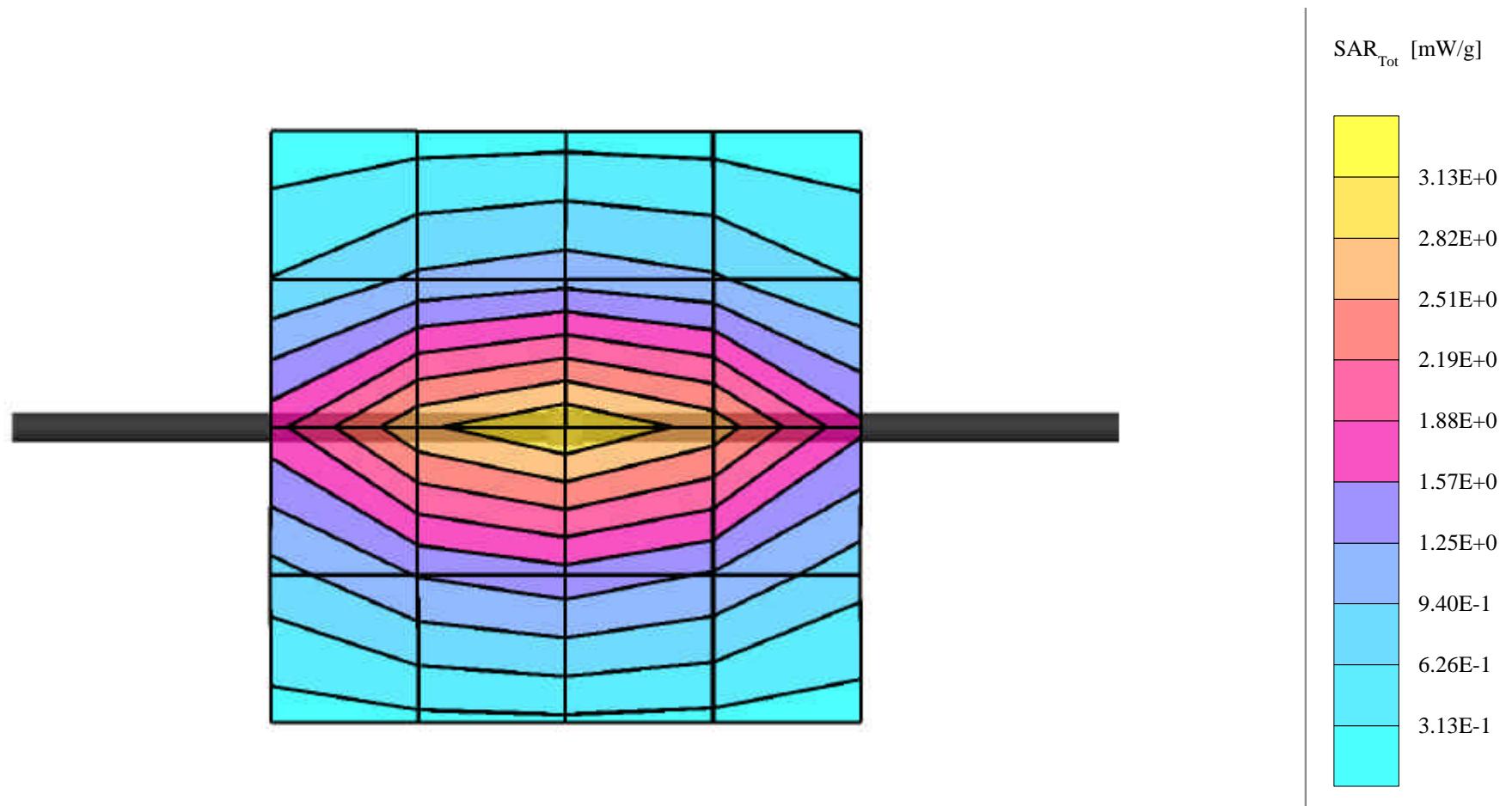
**Issue Date: 19 November 2002**

## **Appendix 1. SAR Scans**

This appendix contains SAR scans associated with the validation measurements recorded in RFI Test Report Serial No: RFI/SARB1/RP43652JD05A.

**These pages are not included in the total number of pages for this supplementary report.**

**Dipole 900 MHz**  
Validation  
SAM Phantom; Flat  
Probe: ET3DV6 - SN1529; ConvF(6.30,6.30,6.30);  
Crest factor: 1.0; Brain 900 MHz EN50361:  $\sigma = 1.04 \text{ mho/m}$   $\epsilon_r = 41.1$   $\rho = 1.00 \text{ g/cm}^3$   
Lab Temperature 21.5 deg C, Fluid Temperature 20.2 deg C  
09/04/02



# Dipole 900 MHz

## Validation

SAM Phantom; Flat

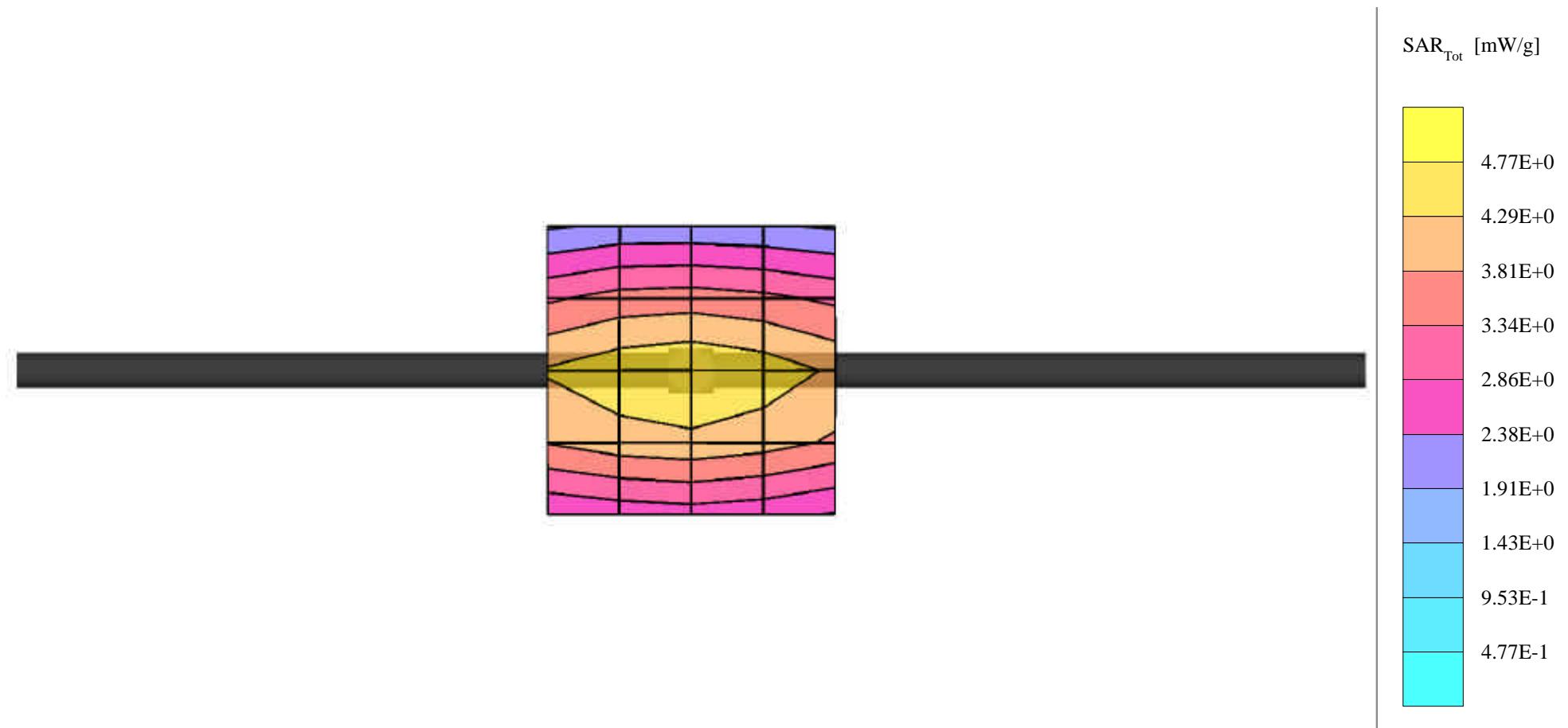
Probe: ET3DV6 - SN1529; ConvF(6.30,6.30,6.30);

Crest factor: 1.0; Brain 900 MHz EN50361:  $\sigma = 1.04 \text{ mho/m}$   $\epsilon_r = 41.1$   $\rho = 1.00 \text{ g/cm}^3$

Peak: 4.80 mW/g  $\pm 0.01$  dB, SAR (1g): 2.85 mW/g  $\pm 0.00$  dB

Lab Temperature 21.5 deg C, Fluid Temperature 20.2 deg C

09/04/02



# Dipole 1900 MHz

## Validation

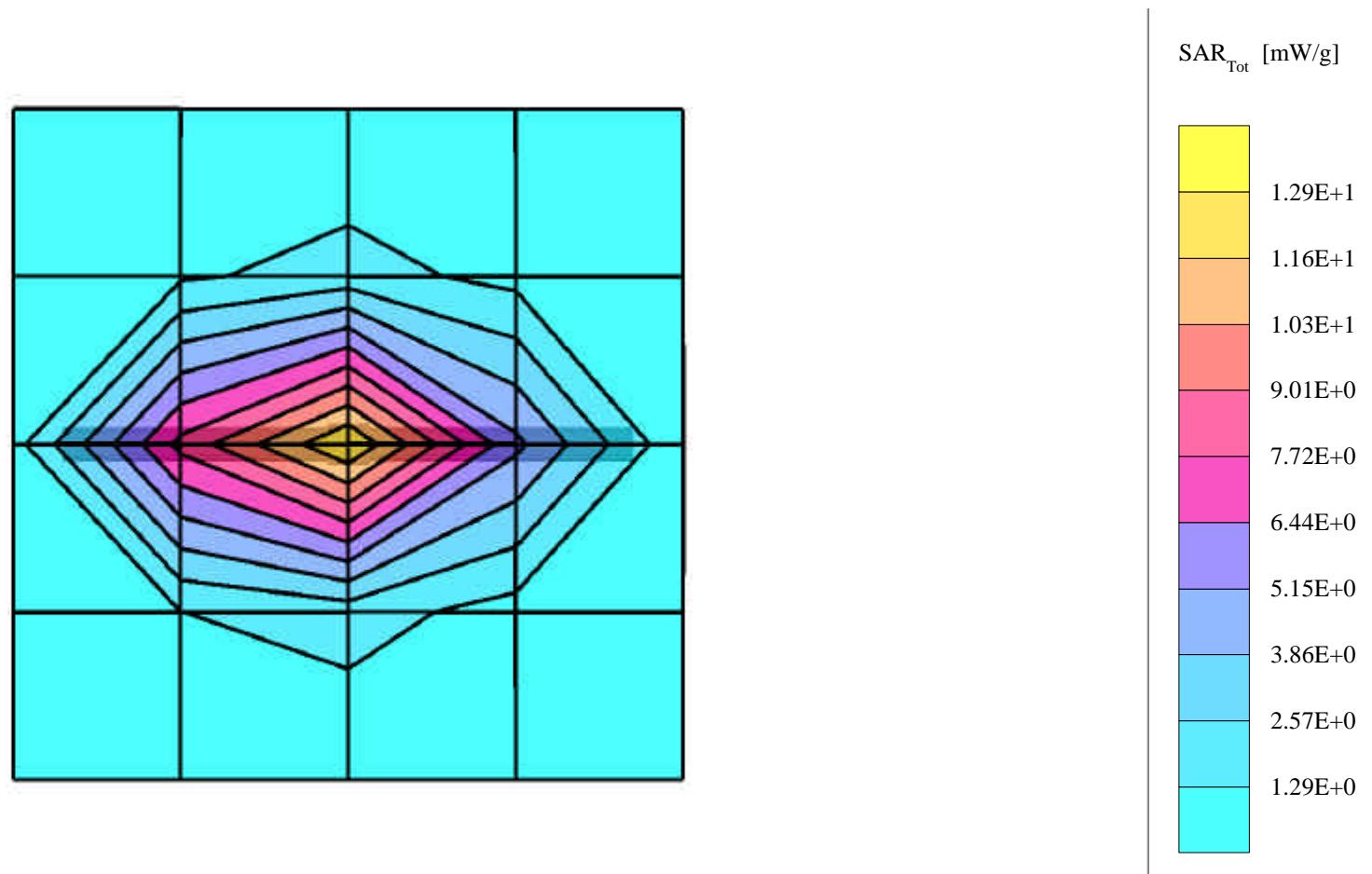
SAM Phantom; Flat

Probe: ET3DV6 - SN1529; ConvF(5.20,5.20,5.20);

Crest factor: 1.0; Brain 1900MHz:  $\sigma = 1.52 \text{ mho/m}$   $\epsilon_r = 39.7$   $\rho = 1.00 \text{ g/cm}^3$

Lab Temperature 21.5 deg C, Fluid Temperature 19.0 deg C

09/04/02



# Dipole 1900 MHz

## Validation

SAM Phantom; Flat

Probe: ET3DV6 - SN1529; ConvF(5.20,5.20,5.20);

Crest factor: 1.0; Brain 1900MHz:  $\sigma = 1.52 \text{ mho/m}$   $\epsilon_r = 39.7$   $\rho = 1.00 \text{ g/cm}^3$

Peak: 22.1 mW/g  $\pm 0.01$  dB, SAR (1g): 10.9 mW/g  $\pm 0.02$  dB

Lab Temperature 21.5 deg C, Fluid Temperature 19.0 deg C

09/04/02

