

**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

**Client** [REDACTED]

## CALIBRATION CERTIFICATE

Object(s) DAE3 - SN:558

Calibration procedure(s) QA CAL-06.v2  
Calibration procedure for the data acquisition unit (DAE)

Calibration date: March 07, 2003

Condition of the calibrated item In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 International standard.

All calibrations have been conducted in the closed laboratory facility; environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

| Model Type                        | ID #        | Cal Date | Scheduled Calibration |
|-----------------------------------|-------------|----------|-----------------------|
| Fluke Process Calibrator Type 702 | SN: 6295803 | 3-Sep-01 | Sep-03                |

| Calibrated by: | Name           | Function     | Signature   |
|----------------|----------------|--------------|---|
|                | Eric Hairfield | Technician   |  |
| Approved by:   | Fin Bornhoff   | R&D Director |  |

Date Issued: March 07, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

## 1. DC Voltage Measurement

DA - Converter Values from DAE

|             |        |               |              |        |
|-------------|--------|---------------|--------------|--------|
| High Range: | 1LSB = | 6.1 $\mu$ V , | full range = | 400 mV |
| Low Range:  | 1LSB = | 61nV ,        | full range = | 4 mV   |

Software Set-up: Calibration time: 3 sec Measuring time: 3 sec

| Setup              | X          | Y           | Z           |
|--------------------|------------|-------------|-------------|
| High Range         | 405.010098 | 404.9037428 | 405.0817835 |
| Low Range          | 3.972      | 3.95185     | 3.96828     |
| Connector Position |            | 86 °        |             |

| High Range        | Input | Reading in $\mu$ V | % Error |
|-------------------|-------|--------------------|---------|
| Channel X + Input | 200mV | 200000             | 0.00    |
|                   | 20mV  | 20003.4            | 0.02    |
| Channel X - Input | 20mV  | -19993             | -0.04   |
| Channel Y + Input | 200mV | 200001             | 0.00    |
|                   | 20mV  | 20002.7            | 0.01    |
| Channel Y - Input | 20mV  | -19993             | -0.04   |
| Channel Z + Input | 200mV | 200000             | 0.00    |
|                   | 20mV  | 20000.8            | 0.00    |
| Channel Z - Input | 20mV  | -19997.7           | -0.01   |

| Low Range         | Input | Reading in $\mu$ V | % Error |
|-------------------|-------|--------------------|---------|
| Channel X + Input | 2mV   | 2000.2             | 0.01    |
|                   | 0.2mV | 200.04             | 0.02    |
| Channel X - Input | 0.2mV | -200.81            | 0.41    |
| Channel Y + Input | 2mV   | 2000.1             | 0.00    |
|                   | 0.2mV | 199.47             | -0.27   |
| Channel Y - Input | 0.2mV | -201.01            | 0.50    |
| Channel Z + Input | 2mV   | 1999.9             | 0.00    |
|                   | 0.2mV | 198.68             | -0.66   |
| Channel Z - Input | 0.2mV | -201.1             | 0.55    |

## **2. Common mode sensitivity**

Software Set-up

Calibration time: 3 sec, Measuring time: 3 sec  
High/Low Range

| in $\mu$ V | Common mode Input Voltage | High Range Reading | Low Range Reading |
|------------|---------------------------|--------------------|-------------------|
| Channel X  | 200mV                     | -1.0284            | -1.5716           |
|            | -200mV                    | 3.9204             | 1.3725            |
| Channel Y  | 200mV                     | 6.7686             | 5.874             |
|            | -200mV                    | -6.8145            | -8.0898           |
| Channel Z  | 200mV                     | 2.1943             | 2.766             |
|            | -200mV                    | -2.52              | -4.6218           |

## **3. Channel separation**

Software Set-up

Calibration time: 3 sec, Measuring time: 3 sec  
High Range

| In $\mu$ V | Input Voltage | Channel X | Channel Y | Channel Z |
|------------|---------------|-----------|-----------|-----------|
| Channel X  | 200mV         | -         | 0.88082   | 0.19177   |
| Channel Y  | 200mV         | 0.049124  | -         | 0.25676   |
| Channel Z  | 200mV         | -2.1226   | -0.89508  | -         |

## **4. AD-Converter Values with inputs shorted**

| in LSB    | Low Range | High Range |
|-----------|-----------|------------|
| Channel X | 16492     | 16236      |
| Channel Y | 16307     | 15690      |
| Channel Z | 16461     | 16033      |

## 5. Input Offset Measurement

Measured after 15 min warm-up time of the Data Acquisition Electronic.  
Every Measurement is preceded by a calibration cycle.

Software set-up:

Calibration time: 3 sec  
Measuring time: 3 sec  
Number of measurements: 100, Low Range

Input  $10M\Omega$

| in $\mu V$ | Average | min. Offset | max. Offset | Std. Deviation |
|------------|---------|-------------|-------------|----------------|
| Channel X  | -0.52   | -1.64       | 0.60        | 0.43           |
| Channel Y  | -2.05   | -3.65       | 0.06        | 0.51           |
| Channel Z  | -0.34   | -2.05       | 0.43        | 0.37           |

Input shorted

| in $\mu V$ | Average | min. Offset | max. Offset | Std. Deviation |
|------------|---------|-------------|-------------|----------------|
| Channel X  | 0.04    | -0.84       | 1.09        | 0.41           |
| Channel Y  | -0.77   | -2.08       | 0.17        | 0.40           |
| Channel Z  | -1.01   | -1.68       | -0.38       | 0.24           |

## 6. Input Offset Current

| in fA     | Input Offset Current |
|-----------|----------------------|
| Channel X | < 25                 |
| Channel Y | < 25                 |
| Channel Z | < 25                 |

## 7. Input Resistance

|           | Calibrating    | Measuring      |
|-----------|----------------|----------------|
| Channel X | 200 k $\Omega$ | 200 M $\Omega$ |
| Channel Y | 200 k $\Omega$ | 200 M $\Omega$ |
| Channel Z | 200 k $\Omega$ | 200 M $\Omega$ |

## 8. Low Battery Alarm Voltage

| in V           | Alarm Level |
|----------------|-------------|
| Supply (+ Vcc) | 7.66 V      |
| Supply (- Vcc) | -7.53 V     |

## 9. Power Consumption

| in mA          | Switched off | Stand by | Transmitting |
|----------------|--------------|----------|--------------|
| Supply (+ Vcc) | 0.000        | 5.83     | 14.1         |
| Supply (- Vcc) | -0.011       | -7.86    | -9.13        |

## 10. Functional test

|                             |       |
|-----------------------------|-------|
| Touch async pulse 1         | ok    |
| Touch async pulse 2         | ok    |
| Touch status bit 1          | ok    |
| Touch status bit 2          | ok    |
| Remote power off            | ok    |
| Remote analog Power control | ok    |
|                             |       |
| Modification Status         | B - C |
|                             |       |
|                             |       |

**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

Client

C&C (Auden)

## CALIBRATION CERTIFICATE

Object(s) ET3DV6 - SN: 1762

Calibration procedure(s) QA CAL-01.v2  
Calibration procedure for dosimetric E-field probes

Calibration date: March 31, 2003

Condition of the calibrated item In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 International standard.

All calibrations have been conducted in the closed laboratory facility: environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

| Model Type                        | ID #         | Cal Date                         | Scheduled Calibration  |
|-----------------------------------|--------------|----------------------------------|------------------------|
| RF generator HP 8684C             | US3642U01700 | 4-Aug-99 (in house check Aug-02) | In house check: Aug-05 |
| Power sensor E4412A               | MY41495277   | Mar-02                           | Mar-03                 |
| Power sensor HP 8481A             | MY41092180   | 18-Sep-02                        | Sep-03                 |
| Power meter EPM E4419B            | GB41293874   | 13-Sep-02                        | Sep-03                 |
| Network Analyzer HP 8753E         | US38432428   | 3-May-00                         | In house check: May 03 |
| Fluke Process Calibrator Type 702 | SN: 6295803  | 3-Sep-01                         | Sep-03                 |

Calibrated by: Name: Nino Vetterli Function: Technician Signature: D. Yeller

Approved by: Name: Katja Pekovic Function: Laboratory Director Signature: R. L. Katja

Date issued: April 2, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

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[info@speag.com](mailto:info@speag.com), <http://www.speag.com>

# Probe ET3DV6

SN:1762

Manufactured: January 20, 2003  
Last calibration: March 31, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

## DASY - Parameters of Probe: ET3DV6 SN:1762

### Sensitivity in Free Space

|       |  |
|-------|--|
| NormX | $1.90 \mu\text{V}/(\text{V}/\text{m})^2$ |
| NormY | $1.78 \mu\text{V}/(\text{V}/\text{m})^2$ |
| NormZ | $1.82 \mu\text{V}/(\text{V}/\text{m})^2$ |

### Diode Compression

|       |    |    |
|-------|----|----|
| DCP X | 96 | mV |
| DCP Y | 96 | mV |
| DCP Z | 96 | mV |

### Sensitivity in Tissue Simulating Liquid

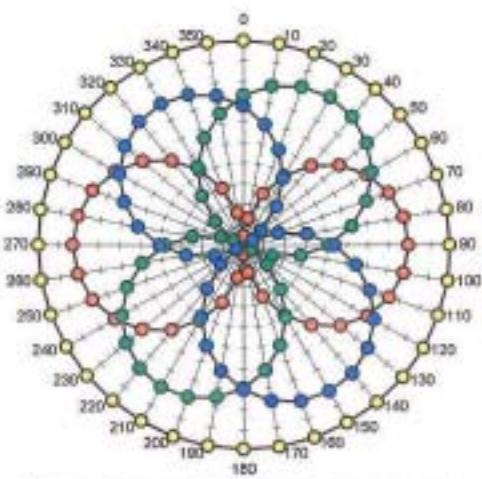
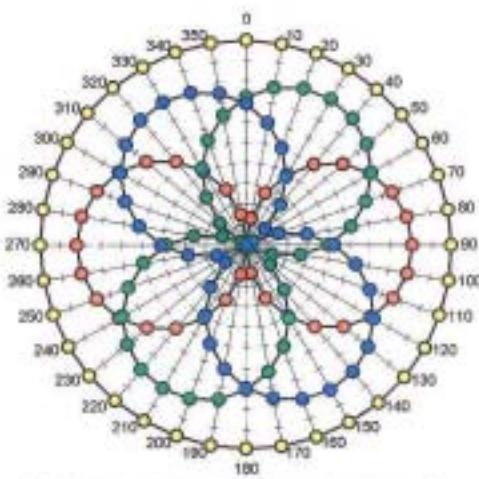
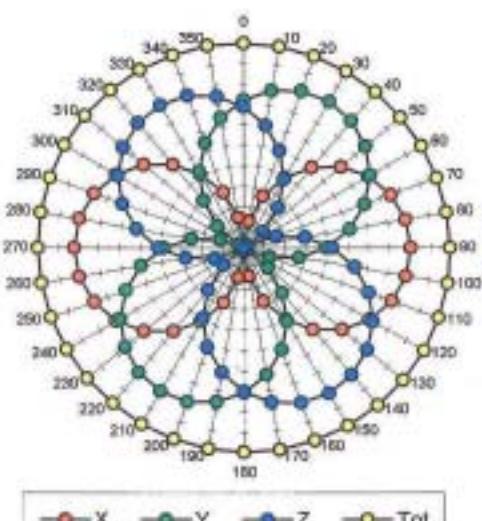
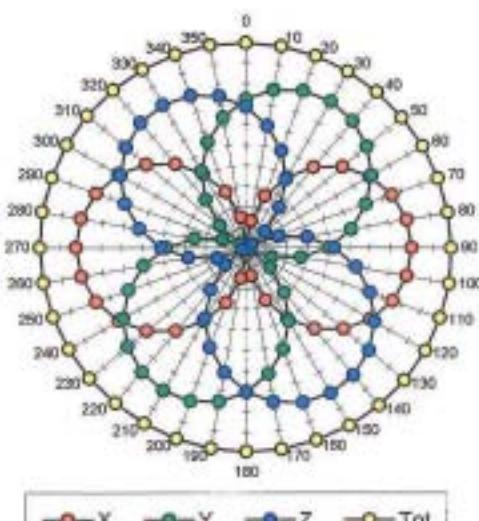
|      |          |                              |                                       |
|------|----------|------------------------------|---------------------------------------|
| Head | 900 MHz  | $\epsilon_r = 41.5 \pm 5\%$  | $\sigma = 0.97 \pm 5\% \text{ mho/m}$ |
| Head | 835 MHz  | $\epsilon_r = 41.5 \pm 5\%$  | $\sigma = 0.90 \pm 5\% \text{ mho/m}$ |
|      | ConvF X  | $6.7 \pm 9.5\% (\text{k}=2)$ | Boundary effect:                      |
|      | ConvF Y  | $6.7 \pm 9.5\% (\text{k}=2)$ | Alpha <b>0.67</b>                     |
|      | ConvF Z  | $6.7 \pm 9.5\% (\text{k}=2)$ | Depth <b>1.74</b>                     |
| Head | 1800 MHz | $\epsilon_r = 40.0 \pm 5\%$  | $\sigma = 1.40 \pm 5\% \text{ mho/m}$ |
| Head | 1900 MHz | $\epsilon_r = 40.0 \pm 5\%$  | $\sigma = 1.40 \pm 5\% \text{ mho/m}$ |
|      | ConvF X  | $5.4 \pm 9.5\% (\text{k}=2)$ | Boundary effect:                      |
|      | ConvF Y  | $5.4 \pm 9.5\% (\text{k}=2)$ | Alpha <b>0.50</b>                     |
|      | ConvF Z  | $5.4 \pm 9.5\% (\text{k}=2)$ | Depth <b>2.63</b>                     |

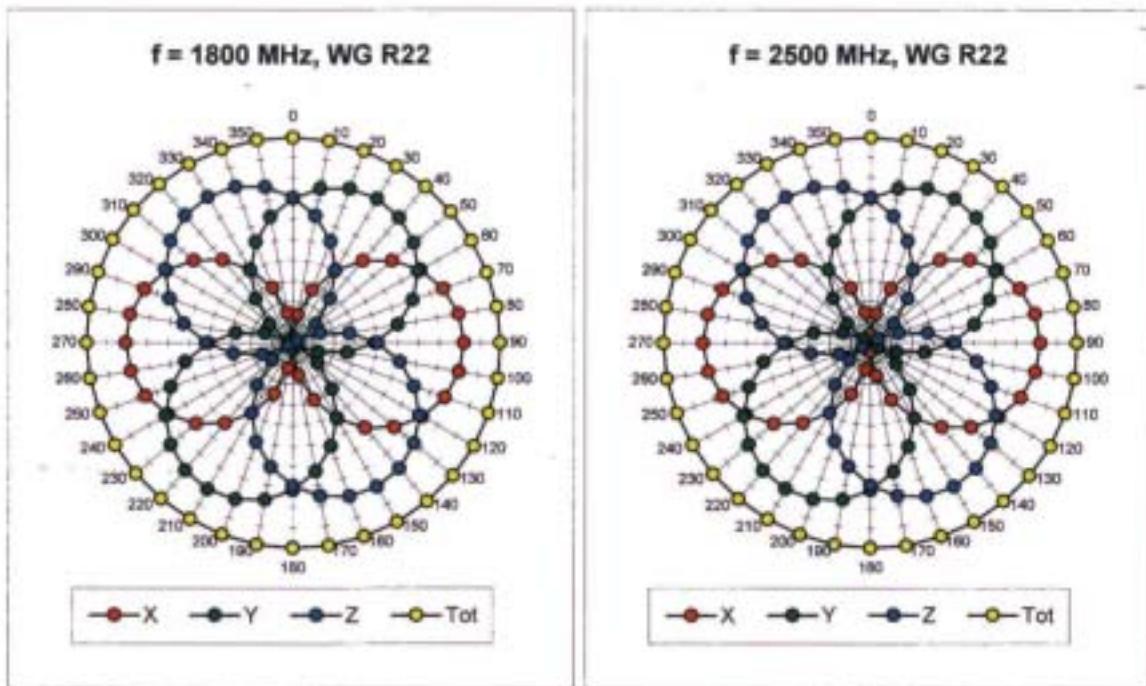
### Boundary Effect

|      |  |                                   |      |      |
|------|--|-----------------------------------|------|------|
| Head | 900 MHz  | Typical SAR gradient: 5 % per mm  |      |      |
|      | Probe Tip to Boundary                              |                                   | 1 mm | 2 mm |
|      | SAR <sub>be</sub> [%] Without Correction Algorithm |                                   | 8.8  | 4.5  |
|      | SAR <sub>be</sub> [%] With Correction Algorithm    |                                   | 0.1  | 0.2  |
| Head | 1800 MHz   | Typical SAR gradient: 10 % per mm |      |      |
|      | Probe Tip to Boundary                              |                                   | 1 mm | 2 mm |
|      | SAR <sub>be</sub> [%] Without Correction Algorithm |                                   | 13.8 | 9.3  |
|      | SAR <sub>be</sub> [%] With Correction Algorithm    |                                   | 0.2  | 0.1  |

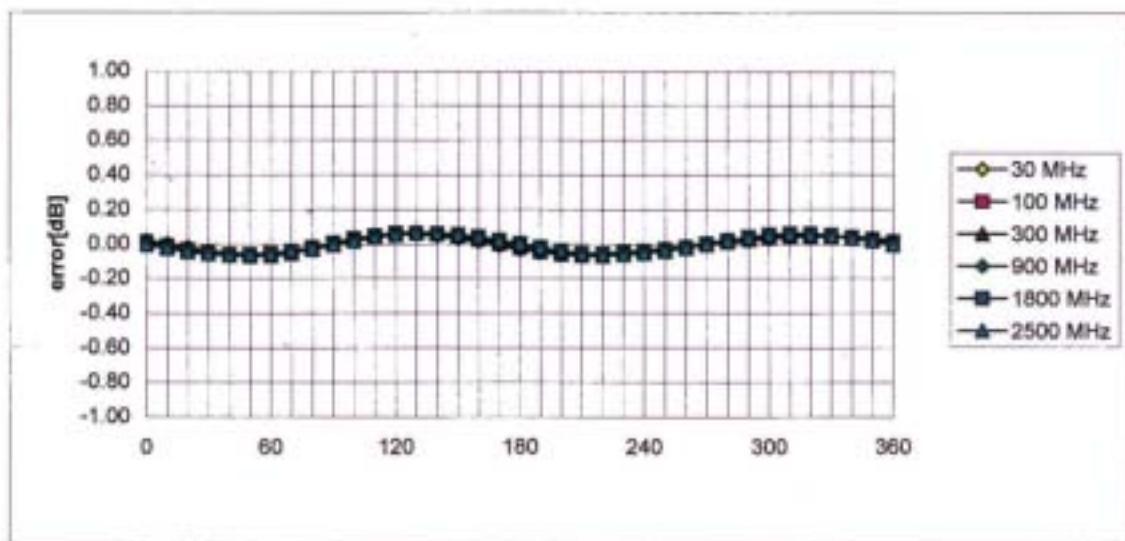
### Sensor Offset

|                            |                  |    |
|----------------------------|------------------|----|
| Probe Tip to Sensor Center | <b>2.7</b>       | mm |
| Optical Surface Detection  | <b>1.4 ± 0.2</b> | mm |

**Receiving Pattern ( $\phi$ ),  $\theta = 0^\circ$** **f = 30 MHz, TEM cell ifi110****f = 100 MHz, TEM cell ifi110****f = 300 MHz, TEM cell ifi110****f = 900 MHz, TEM cell ifi110**

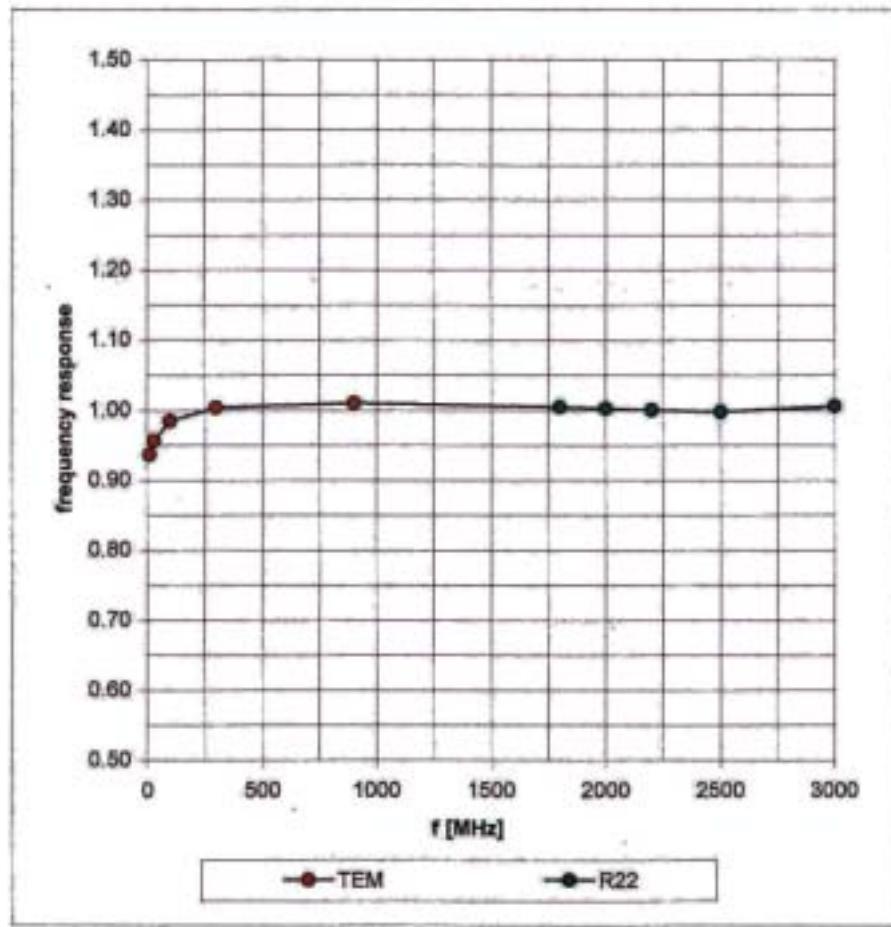


### Isotropy Error ( $\phi$ ), $\theta = 0^\circ$

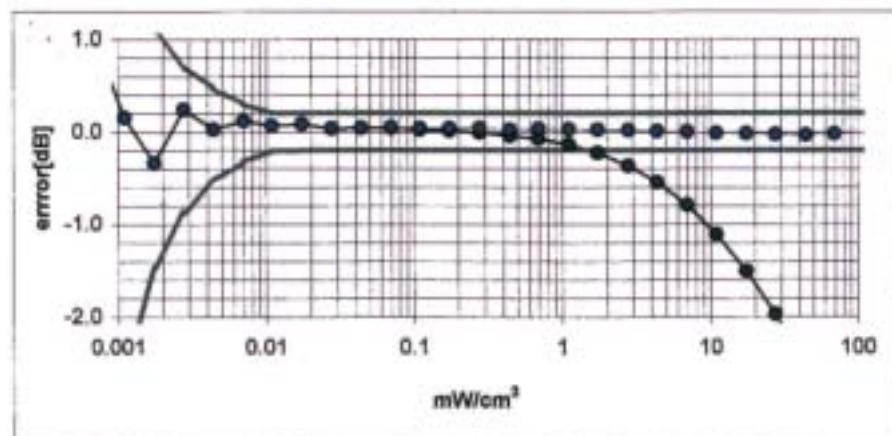
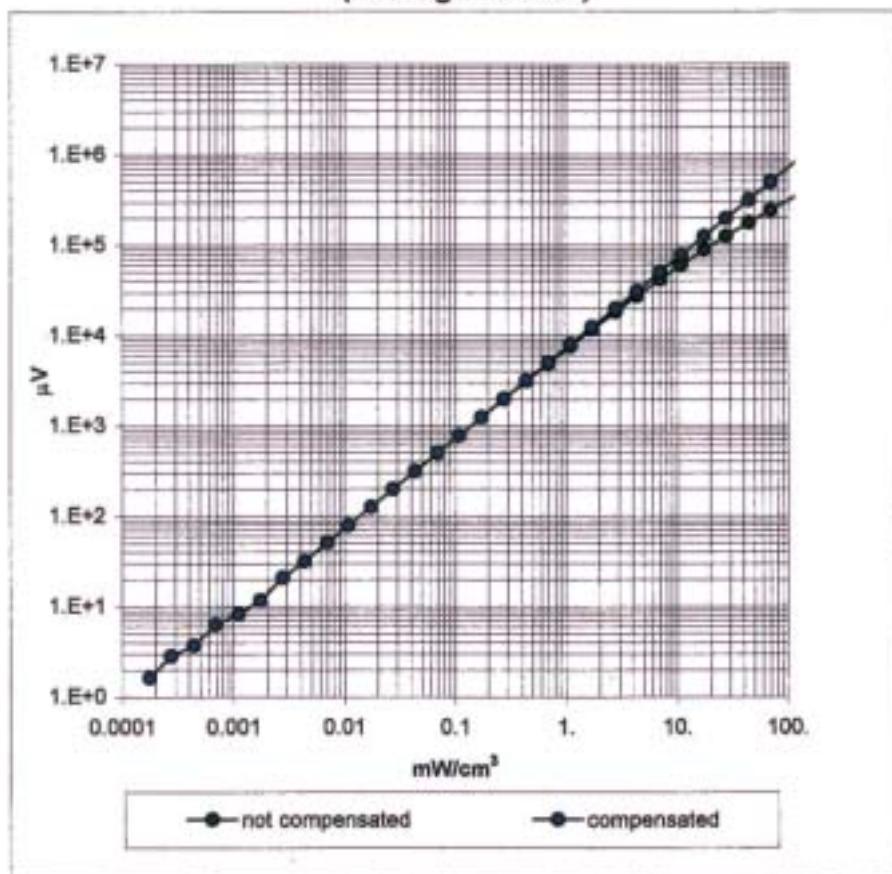


## Frequency Response of E-Field

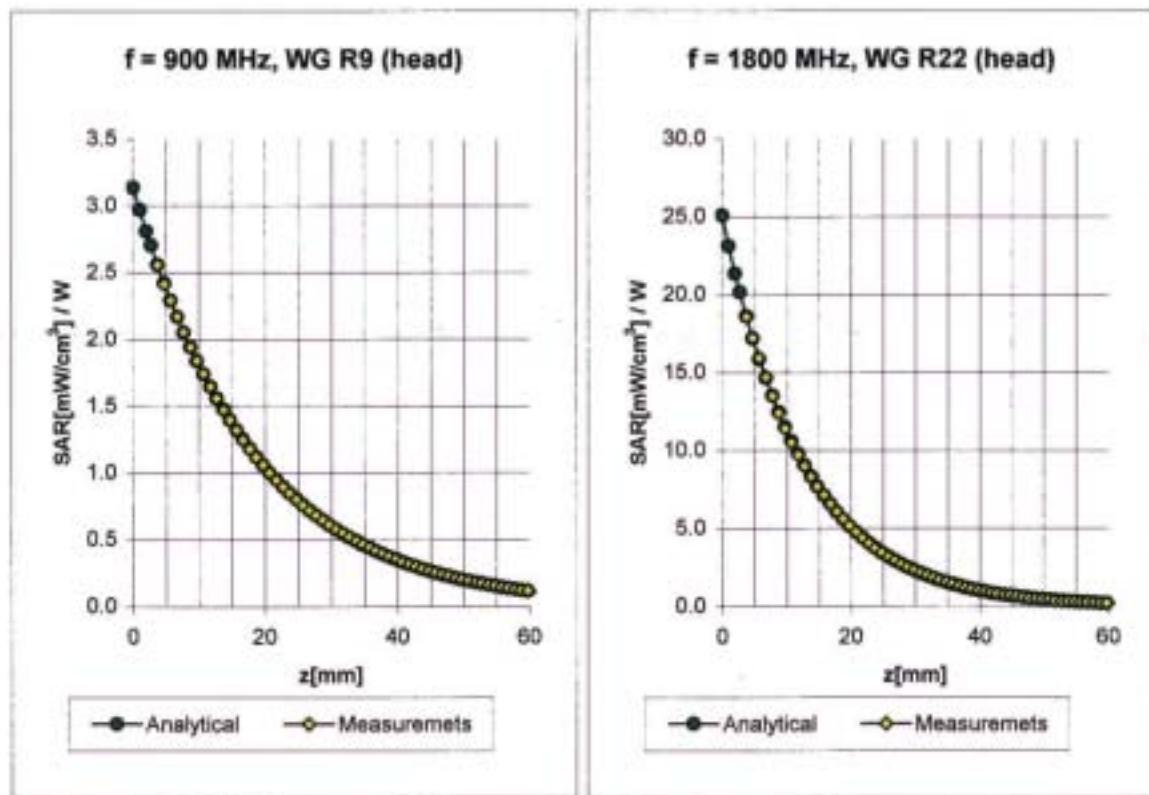
( TEM-Cell:ifi110, Waveguide R22)



### Dynamic Range f(SAR<sub>brain</sub>) ( Waveguide R22 )



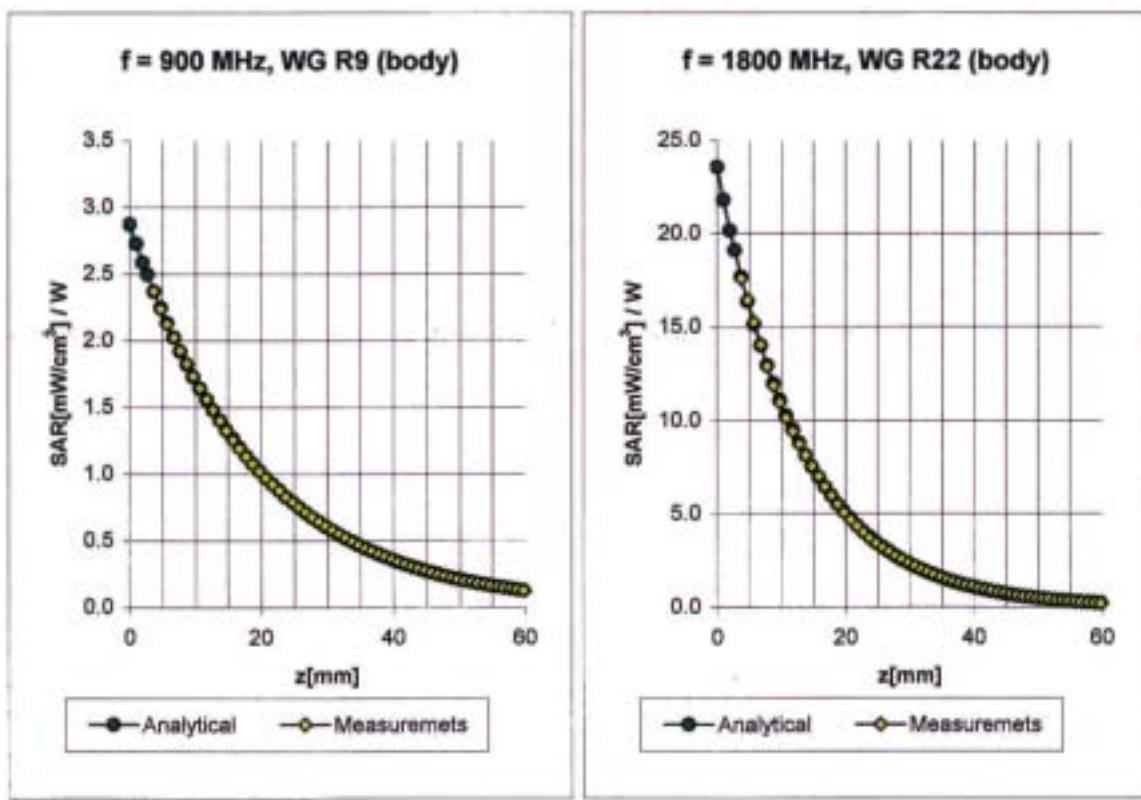
## Conversion Factor Assessment



|         |                                      |                             |                                       |
|---------|--------------------------------------|-----------------------------|---------------------------------------|
| Head    | 900 MHz                              | $\epsilon_r = 41.5 \pm 5\%$ | $\sigma = 0.97 \pm 5\% \text{ mho/m}$ |
| Head    | 835 MHz                              | $\epsilon_r = 41.5 \pm 5\%$ | $\sigma = 0.90 \pm 5\% \text{ mho/m}$ |
| ConvF X | <b>6.7</b> $\pm 9.5\% \text{ (k=2)}$ |                             | Boundary effect:                      |
| ConvF Y | <b>6.7</b> $\pm 9.5\% \text{ (k=2)}$ |                             | Alpha <b>0.67</b>                     |
| ConvF Z | <b>6.7</b> $\pm 9.5\% \text{ (k=2)}$ |                             | Depth <b>1.74</b>                     |

|         |                                      |                             |                                       |
|---------|--------------------------------------|-----------------------------|---------------------------------------|
| Head    | 1800 MHz                             | $\epsilon_r = 40.0 \pm 5\%$ | $\sigma = 1.40 \pm 5\% \text{ mho/m}$ |
| Head    | 1900 MHz                             | $\epsilon_r = 40.0 \pm 5\%$ | $\sigma = 1.40 \pm 5\% \text{ mho/m}$ |
| ConvF X | <b>5.4</b> $\pm 9.5\% \text{ (k=2)}$ |                             | Boundary effect:                      |
| ConvF Y | <b>5.4</b> $\pm 9.5\% \text{ (k=2)}$ |                             | Alpha <b>0.50</b>                     |
| ConvF Z | <b>5.4</b> $\pm 9.5\% \text{ (k=2)}$ |                             | Depth <b>2.63</b>                     |

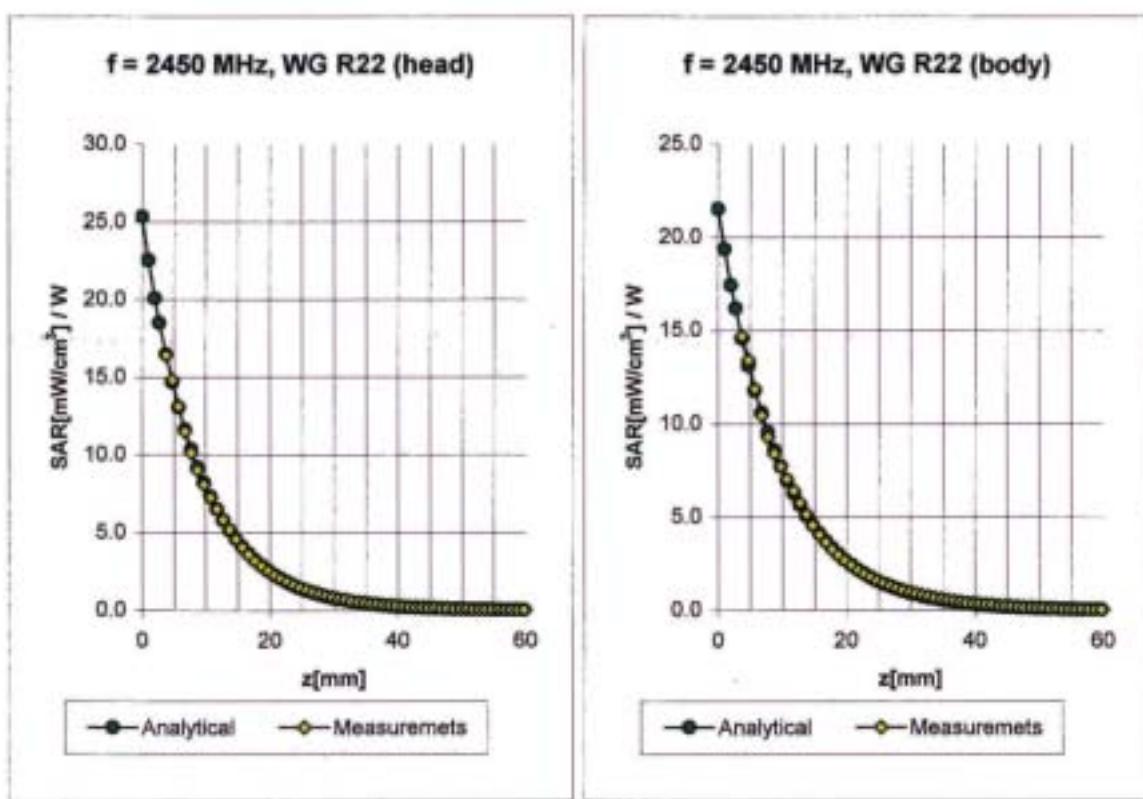
## Conversion Factor Assessment



|         |                              |                             |                                       |
|---------|------------------------------|-----------------------------|---------------------------------------|
| Body    | 900 MHz                      | $\epsilon_r = 55.0 \pm 5\%$ | $\sigma = 1.05 \pm 5\% \text{ mho/m}$ |
| Body    | 835 MHz                      | $\epsilon_r = 55.2 \pm 5\%$ | $\sigma = 0.97 \pm 5\% \text{ mho/m}$ |
| ConvF X | <b>6.5</b> $\pm 9.5\%$ (k=2) |                             | Boundary effect:                      |
| ConvF Y | <b>6.5</b> $\pm 9.5\%$ (k=2) |                             | Alpha <b>0.43</b>                     |
| ConvF Z | <b>6.5</b> $\pm 9.5\%$ (k=2) |                             | Depth <b>2.34</b>                     |

|         |                              |                             |                                       |
|---------|------------------------------|-----------------------------|---------------------------------------|
| Body    | 1800 MHz                     | $\epsilon_r = 53.3 \pm 5\%$ | $\sigma = 1.52 \pm 5\% \text{ mho/m}$ |
| Body    | 1900 MHz                     | $\epsilon_r = 53.3 \pm 5\%$ | $\sigma = 1.52 \pm 5\% \text{ mho/m}$ |
| ConvF X | <b>5.0</b> $\pm 9.5\%$ (k=2) |                             | Boundary effect:                      |
| ConvF Y | <b>5.0</b> $\pm 9.5\%$ (k=2) |                             | Alpha <b>0.57</b>                     |
| ConvF Z | <b>5.0</b> $\pm 9.5\%$ (k=2) |                             | Depth <b>2.65</b>                     |

## Conversion Factor Assessment



Head      2450      MHz       $s_r = 39.2 \pm 5\%$        $\sigma = 1.80 \pm 5\% \text{ mho/m}$

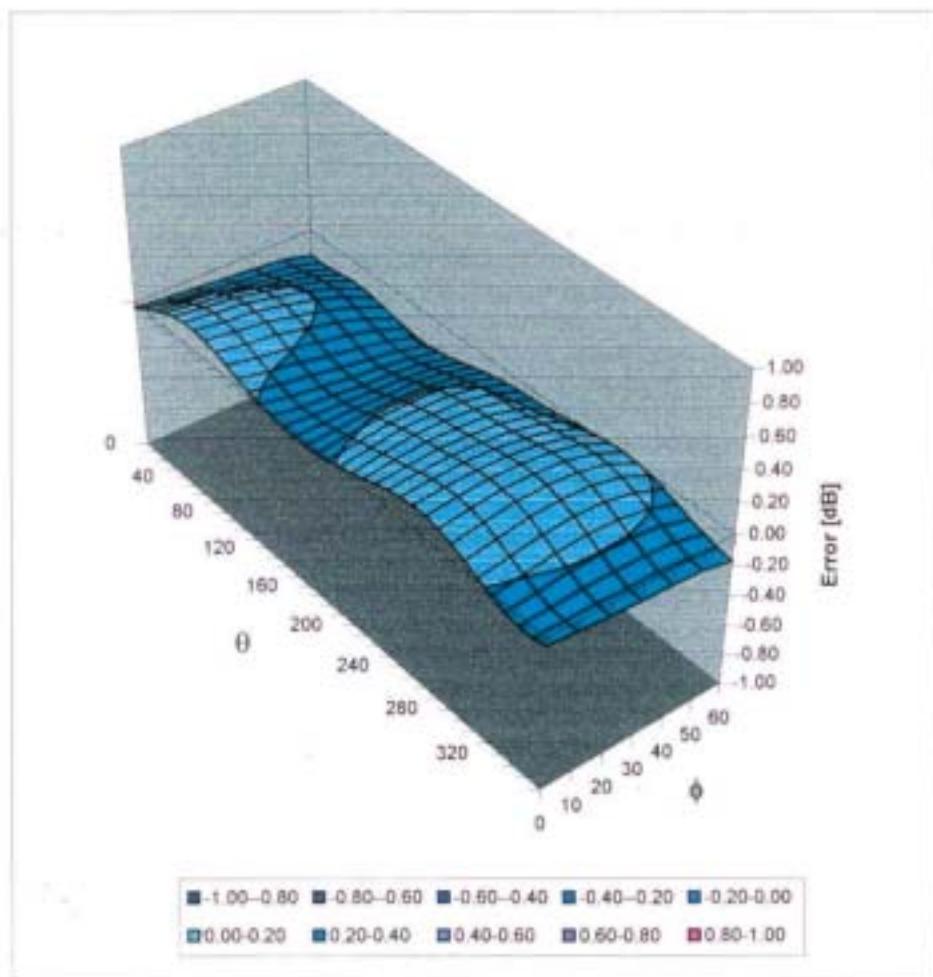
|         |                              |                   |
|---------|------------------------------|-------------------|
| ConvF X | <b>5.1</b> $\pm 8.9\%$ (k=2) | Boundary effect:  |
| ConvF Y | <b>5.1</b> $\pm 8.9\%$ (k=2) | Alpha <b>1.32</b> |
| ConvF Z | <b>5.1</b> $\pm 8.9\%$ (k=2) | Depth <b>1.61</b> |

Body      2450      MHz       $s_r = 52.7 \pm 5\%$        $\sigma = 1.95 \pm 5\% \text{ mho/m}$

|         |                              |                   |
|---------|------------------------------|-------------------|
| ConvF X | <b>4.6</b> $\pm 8.9\%$ (k=2) | Boundary effect:  |
| ConvF Y | <b>4.6</b> $\pm 8.9\%$ (k=2) | Alpha <b>1.39</b> |
| ConvF Z | <b>4.6</b> $\pm 8.9\%$ (k=2) | Depth <b>1.60</b> |

## Deviation from Isotropy in HSL

Error ( $\theta, \phi$ ),  $f = 900$  MHz



**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland

**Client**

C&C (Auden)

## CALIBRATION CERTIFICATE

Object(s) D1800V2 - SN:2d062

Calibration procedure(s) QA CAL-05.v2  
Calibration procedure for dipole validation kits

Calibration date: April 1, 2003

Condition of the calibrated item In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 International standard.

All calibrations have been conducted in the closed laboratory facility, environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

| Model Type                | ID #       | Cal Date    | Scheduled Calibration  |
|---------------------------|------------|-------------|------------------------|
| RF generator R&S SML-03   | 100698     | 27-Mar-2002 | In house check: Mar-05 |
| Power sensor HP 8481A     | MY41082317 | 18-Oct-02   | Oct-04                 |
| Power sensor HP 8481A     | US37292783 | 30-Oct-02   | Oct-03                 |
| Power meter EPM E442      | GB37480704 | 30-Oct-02   | Oct-03                 |
| Network Analyzer HP 8753E | US38432426 | 3-May-00    | In house check: May 03 |

| Calibrated by: | Name          | Function            | Signature   |
|----------------|---------------|---------------------|---|
|                | Nico Vetterli | Technician          |  |
| Approved by:   | Katja Pokovic | Laboratory Director |  |

Date issued: April 2, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

Schmid & Partner Engineering AG

**s p e a g**

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[info@speag.com](mailto:info@speag.com), <http://www.speag.com>

# DASY

## Dipole Validation Kit

Type: D1800V2

Serial: 2d062

Manufactured: January 28, 2003  
Calibrated: April 1, 2003

## 1. Measurement Conditions

The measurements were performed in the flat section of the SAM twin phantom filled with head simulating solution of the following electrical parameters at 1800 MHz:

|                        |            |      |
|------------------------|------------|------|
| Relative Dielectricity | 39.2       | ± 5% |
| Conductivity           | 1.36 mho/m | ± 5% |

The DASY4 System with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 5.3 at 1800 MHz) was used for the measurements.

The dipole was mounted on the small tripod so that the dipole feedpoint was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10mm from dipole center to the solution surface. The included distance holder was used during measurements for accurate distance positioning.

The coarse grid with a grid spacing of 15mm was aligned with the dipole. The 7x7x7 fine cube was chosen for cube integration.

The dipole input power (forward power) was  $250\text{mW} \pm 3\%$ . The results are normalized to 1W input power.

## 2. SAR Measurement with DASY4 System

Standard SAR-measurements were performed according to the measurement conditions described in section 1. The results (see figure supplied) have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ET3DV6 SN:1507 and applying the advanced extrapolation are:

averaged over  $1\text{ cm}^3$  (1 g) of tissue:      **38.2 mW/g ± 16.8 % (k=2)**<sup>1</sup>

averaged over  $10\text{ cm}^3$  (10 g) of tissue:      **20.3 mW/g ± 16.2 % (k=2)**<sup>1</sup>

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<sup>1</sup> validation uncertainty

### 3. Dipole Impedance and Return Loss

The impedance was measured at the SMA-connector with a network analyzer and numerically transformed to the dipole feedpoint. The transformation parameters from the SMA-connector to the dipole feedpoint are:

|                      |          |                                       |
|----------------------|----------|---------------------------------------|
| Electrical delay:    | 1.208 ns | (one direction)                       |
| Transmission factor: | 0.993    | (voltage transmission, one direction) |

The dipole was positioned at the flat phantom sections according to section 1 and the distance holder was in place during impedance measurements.

Feedpoint impedance at 1800 MHz:  $\text{Re}\{Z\} = 49.6 \Omega$

$\text{Im}\{Z\} = -1.2 \Omega$

Return Loss at 1800 MHz  $-37.7 \text{ dB}$

### 4. Handling

Do not apply excessive force to the dipole arms, because they might bend. Bending of the dipole arms stresses the soldered connections near the feedpoint leading to a damage of the dipole.

### 5. Design

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

### 6. Power Test

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

Date/Time: 04/01/03 12:53:01

Test Laboratory: SPEAG, Zurich, Switzerland  
File Name: SN2d062\_SN1507\_HSL1800\_010403.da4

**DUT: Dipole 1800 MHz; Serial: D1800V2 - SN2d062**  
**Program: Dipole Calibration**

Communication System: CW-1800; Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL 1800 MHz; ( $\sigma = 1.36 \text{ mho/m}$ ,  $\epsilon_r = 39.22$ ,  $\rho = 1000 \text{ kg/m}^3$ )

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(5.3, 5.3, 5.3); Calibrated: 1/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 - SN411; Calibrated: 1/16/2003
- Phantom: SAM with CRP - TP1006; Type: SAM 4.0; Serial: TP:1006
- Measurement SW: DASY4, V4.1 Build 33; Postprocessing SW: SEMCAD, V1.6 Build 109

Pin = 250 mW; d = 10 mm/Area Scan (81x8Ix1): Measurement grid: dx=15mm, dy=15mm

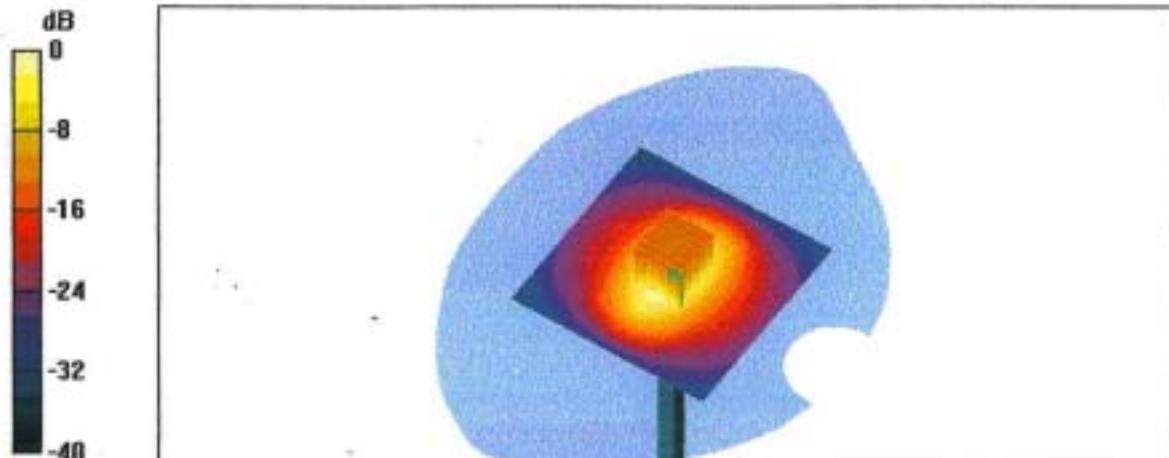
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93 V/m

Peak SAR = 16.2 W/kg

SAR(1 g) = 9.56 mW/g; SAR(10 g) = 5.08 mW/g

Power Drift = 0.007 dB



CH1 S11 1 U FS

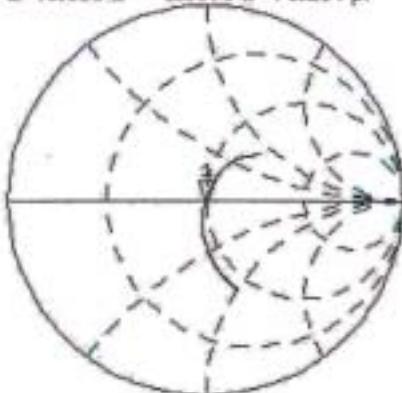
1 Apr 2003 09:07:09  
11 49.506  $\Omega$  -1.2878  $\mu$ H 73.254 pF  
1,000,000.000 MHz

20/062

De1

PRR  
Cor  
Avg  
16

†

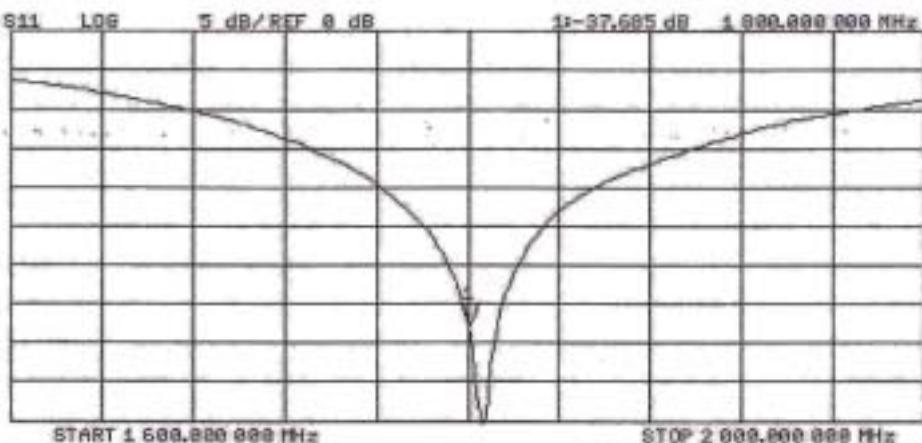


CH2 S11 LOG 5 dB/REF 0 dB

11-37.685 dB 1,000,000.000 MHz

PRR  
Cor

†



START 1,000,000.000 MHz

STOP 2,000,000.000 MHz