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Daoud Attayi	June 28-30, 2010	RTS-1689-1007-35	L6ARCN70U	\mathbf{W}

Annex B: Probe and dipole description and calibration certificates

B.1 Probe, measurement chain description, specification and calibration certificate

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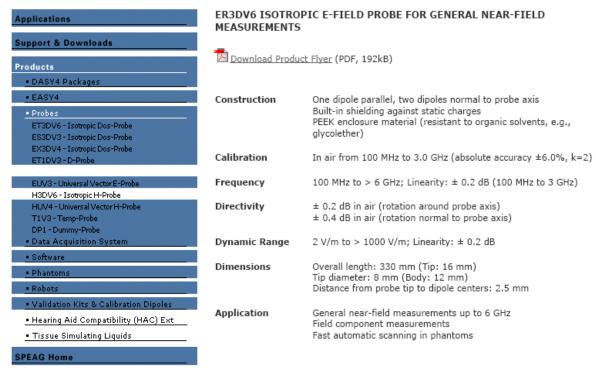
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DASY Dosimetric Assessment System by Schmid & Partner Engineering AG





http://www.dasy4.com/er3.htm

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DASY Dosimetric Assessment System by Schmid & Partner Engineering AG



H3DV6 3-DIMENSIONAL H-FIELD PROBE FOR SMALL BAND Applications APPLICATIONS Support & Downloads 🔼 <u>Download Product Flyer</u> (PDF, 192kB) Products DASY4 Packages • EASV4 Construction Three concentric loop sensors with 3.8 mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges ET3DV6 - Isotropic Dos-Probe PEEK enclosure material (resistant to organic solvents, e.g., ES3DV3 - Isotropic Dos-Probe glycolether) EX3DV4 - Isotropic Dos-Probe ET1DV3 - D-Pro Frequency 200 MHz to 3 GHz (absolute accuracy ± 6.0%, k=2); ER3DV6 - Isotropic E-Probe Output linearized EUV3 - Universal Vector E-Pro Directivity ± 0.25 dB (spherical isotropy error) HUV4 - Universal Vector H-Probe Dynamic Range 10 mA/m to 2 A/m at 1 GHz T1V3 - Temp-Probe E-Field Interference < 10% at 3 GHz (for plane wave) DP1 - Dummy-Probe Dimensions Overall length: 330 mm (Tip: 40 mm) Data Acquisition System Tip diameter: 6 mm (Body: 12 mm) • Software Distance from probe tip to dipole centers: 3 mm Application General magnetic near-field measurements up to 3 GHz Field component measurements Surface current measurements · Validation Kits & Calibration Dipole Measurements in air or liquids • Hearing Aid Compatibility (HAC) Ext Low interaction with the measured field Tissue Simulating Liquids SPEAG Home

http://www.dasy4.com/h3d.htm

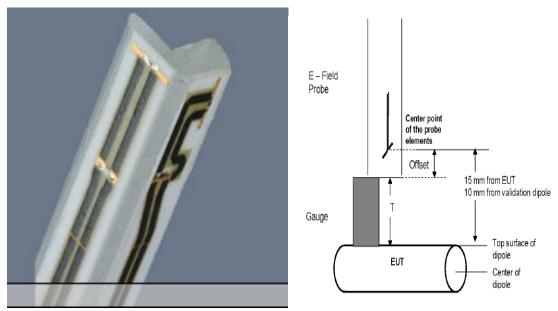
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All measurements were performed to the nearest element point as per the C63.19 standard. Offset distances were entered in the DASY4 software so that the measurement was to the nearest element.

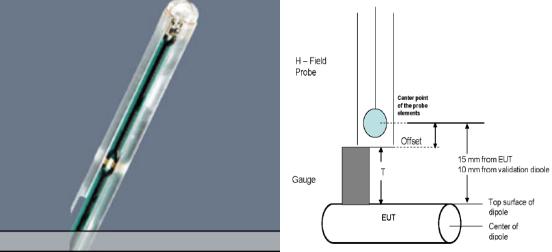
Figures 1 and 2, provided by the manufacturer, illustrate detail of the probe tip and its dimensions.

ER3DV6 E-Field probe: The distances from the probe tip to the closest points on the dipole sensors are 1.45mm for X and Y and 1.25mm for Z. From the probe tip to the center of the sensors is 2.5mm.

H3DV6 H-Field probe: The distance from the probe tip to the closest point of the X, Y and Z loop sensors is 1.1mm. From the probe tip to the center of the sensor is 3.00mm.



E-Field Probe (ER3DV6)



H-Field Probe (H3DV6)



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The following information is from the system manufacturer user manual describing the process chain:

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$
(20.1)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\mbox{E} - \mbox{fieldprobes}: \qquad E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}} \label{eq:energy}$$

$${
m H-field probes}$$
 : $H_i = \sqrt{V_i} \cdot rac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$

with V_i = compensated signal of channel i (i = x, y, z) $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)

> $\mu V/(V/m)^2$ for E-field Probes = sensitivity enhancement in solution

 a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

 E_i = electric field strength of channel i in V/m H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$
(20.2)

The measurement / integration time per point is > 500 ms, as per the system manufacturer:

The time response of the field probes has been assessed by exposing the probe to a well-controlled field producing signals larger than HAC E- and H-fields of class M4. The signal response time is evaluated as the time required by the system to reach 90% of the expected final value after an on/off switch of the power source with an integration time of 500 ms and a probe response time of <5 ms. In the current implementation, DASY4 waits longer than 100 ms after having reached the grid point before starting a measurement, i.e., the response time uncertainty is negligible.

If the device under test does not emit a CW signal, the integration time applied to measure the electric field at a specific point may introduce additional uncertainties due to the discretization. The tolerances for the different systems had the worst-case of 2.6%.



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Calibration Laboratory of Schmid & Partner Engineering AG

usstrasse 43, 8004 Zurich, Switzerland





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Client RTS (RIM Testing Services)

Certificate No: ER3-2286_Jan10

Accreditation No.: SCS 108

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CALIBRATION CERTIFICATE Object ER3DV6 - SN:2286 QA CAL-02.v5 and QA CAL-25.v2 Calibration procedure(s) Calibration procedure for E-field probes optimized for close near field evaluations in air ACC 2007 2007 January 8, 2010 Calibration date: This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID# Cal Date (Certificate No.) Scheduled Calibration Power meter E4419B GB41293874 1-Apr-09 (No. 217-01030) Apr-10 Power sensor E4412A MY41495277 1-Apr-09 (No. 217-01030) Apr-10 Power sensor E4412A MY41498087 1-Apr-09 (No. 217-01030) Apr-10 Reference 3 dB Attenuator SN: S5054 (3c) 31-Mar-09 (No. 217-01026) Mar-10 Reference 20 dB Attenuator SN: S5086 (20b) 31-Mar-09 (No. 217-01028) Mar-10 Reference 30 dB Attenuator SN: S5129 (30b) 31-Mar-09 (No. 217-01027) Mar-10 Reference Probe ER3DV6 SN: 2328 3-Oct-09 (No. ER3-2328_Oct09) Oct-10 DAE4 SN: 789 23-Dec-09 (No. DAE4-789_Dec09) Dec-10 Secondary Standards ID# Check Date (in house) Scheduled Check RF generator HP 8648C US3642U01700 4-Aug-99 (in house check Oct-09) In house check: Oct-11 Network Analyzer HP 8753E US37390585 18-Oct-01 (in house check Oct-09) In house check: Oct10 Function Calibrated by: Approved by: Issued: January 8, 2010 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

NORMx,y,z sensitivity in free space DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A, B, C modulation dependent linearization parameters

Polarization φ orotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

 a) IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005.

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 for XY sensors and 9 = 90 for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart).
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- Ax,y,z; Bx,y,z; Cx,y,z, VRx,y,z: A, B, C are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the
 maximum calibration range expressed in RMS voltage across the diode.
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide setup.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).



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L6ARCN70UW

FCC ID

ER3DV6 SN:2286

January 8, 2010

Probe ER3DV6

SN:2286

Manufactured: September 18, 2002 Last calibrated: January 8, 2009 Recalibrated: January 8, 2010

> Calibrated for DASY Systems (Note: non-compatible with DASY2 system!)

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ER3DV6 SN:2286

January 8, 2010

DASY - Parameters of Probe: ER3DV6 SN:2286

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²)	2.23	1.50	1.54	± 10.1%
DCP (mV) ^A	94.9	94.8	95.7	

Modulation Calibration Parameters

Modula	don oundradon i aramet							
UID	Communication System Name	PAR		A dB	B dBuV	С	VR mV	Unc ^s (k=2)
10000	cw	0.00	×	0.00	0.00	1.00	300	± 1.5 %
			Y	0.00	0.00	1.00	300	
			Z	0.00	0.00	1.00	300	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A numerical linearization parameter: uncertainty not required

E Uncertainty is determined using the maximum deviation from linear response applying recatangular distribution and is expressed for the square of the field value

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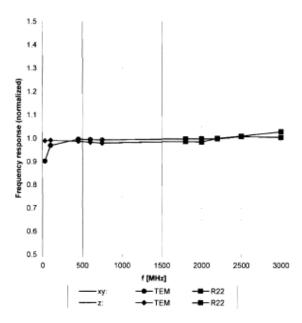
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ER3DV6 SN:2286 January 8, 2010

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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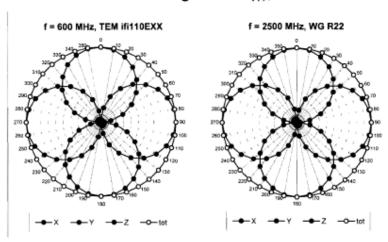
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FCC ID

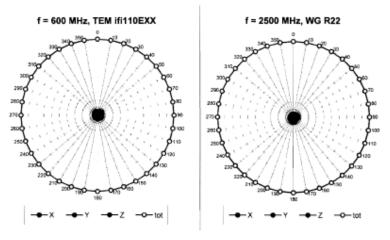
ER3DV6 SN:2286

January 8, 2010

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



Receiving Pattern (ϕ), $\vartheta = 90^{\circ}$



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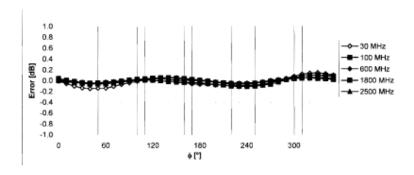
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FCC ID

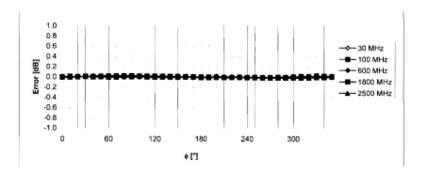
ER3DV6 SN:2286

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Receiving Pattern (ϕ), ϑ = 90°



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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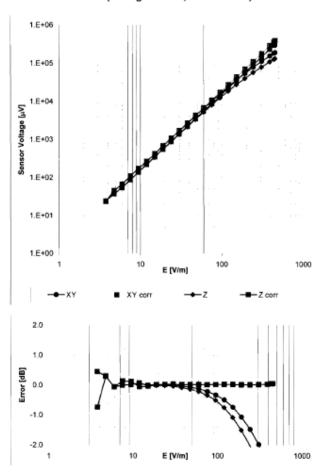
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January 8, 2010

Dynamic Range f(E-field)

(Waveguide R22, f = 1800 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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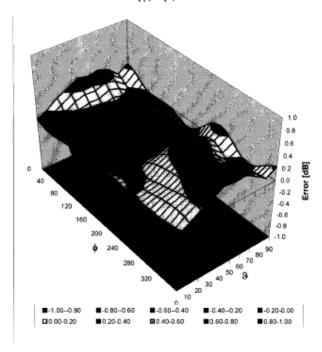
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Deviation from Isotropy in Air Error (ϕ, θ) , f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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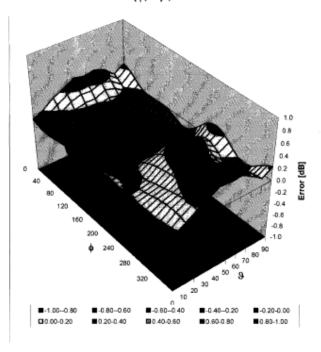
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> ER3DV6 SN:2286 January 8, 2010

Deviation from Isotropy in Air Error (ϕ, ϑ) , f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (*)	-9.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	8.0 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	2.5 mm
Probe Tip to Sensor Z Calibration Point	2.5 mm

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Calibration Laboratory of Schmid & Partner







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RTS (RIM Testing Services)

Certificate No: H3-6168_Mar10

Accreditation No.: SCS 108

	CERTIFICAT	The state of the s	Washington Consumer
Object	H3DV6 - SN:61	68 . As a consequent of the contract	Conflicted and Confli
Calibration procedure(s)	Coliberation mean	and QA CAL-25.v2 edure for H-field probes optimized ir	for close near field
Calibration date:	March 12, 2010	Balance Control of the State of	BOTH BOTH BOTH CONTRACTOR
The measurements and the unc	partainties with confidence ucted in the closed laborat	tional standards, which realize the physical uniprobability are given on the following pages an ory facility: environment temperature $(22 \pm 3)^{\circ}$ C	d are part of the certificate.
Primary Standards	iD#	Call Date (Certificate No.)	Scheduled Calibration
	GB41293874	1-Apr-09 (No. 217-01030)	Apr-10
Power meter E4419B			
	MY41495277	1-Apr-09 (No. 217-01030)	
Power sensor E4412A	MY41495277 MY41498087	1-Apr-09 (No. 217-01030) 1-Apr-09 (No. 217-01030)	Apr-10
Power sensor E4412A Power sensor E4412A	MY41498087	1-Apr-09 (No. 217-01030)	
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator	MY41498087 SN: S5054 (3c)	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026)	Apr-10 Apr-10
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	MY41498087 SN: S5054 (3c) SN: S5086 (20b)	1-Apr-09 (No. 217-01030)	Apr-10 Apr-10 Mar-10
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator	MY41498087 SN: S5054 (3c)	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028)	Apr-10 Apr-10 Mar-10 Mar-10
Power meter E4412A Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe H3DV6 DAE4	MY41498087 SN: S5054 (3c) SN: S5088 (20b) SN: S5129 (30b)	1-Agr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027)	Apr-10 Apr-10 Mar-10 Mar-10 Mar-10
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe H3DV6	MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 6182	1-Agr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 3-Oct-09 (No. H3-6182_Oct09)	Apr-10 Apr-10 Mar-10 Mar-10 Oct-10
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe H3DV6 DAE4 Recondary Standards	MY41496087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 6182 SN: 789	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 3-Oct-09 (No. H3-6182_Oct09) 23-Dec-09 (No. DAE4-789_Dec09)	Apr-10 Apr-10 Mar-10 Mar-10 Mar-10 Oct-10 Dec-10
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe H3DV6 DAE4 Recordary Standards Regenerator HP 8648C	MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: S5129 (30b) SN: 6182 SN: 789	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 3-Oct-09 (No. H3-6182_Oct09) 23-Dec-09 (No. DAE4-769_Dec09) Check Date (in house)	Apr-10 Apr-10 Mar-10 Mar-10 Mar-10 Oct-10 Dec-10 Scheduled Check
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe H3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E	MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: S5129 (30b) SN: 6182 SN: 789 ID# US3642U01700 US37390585	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 3-Oct-09 (No. H3-6182_Oct09) 23-Dec-09 (No. DAE4-789_Dec09) Check Date (in house) 4-Aug-99 (in house check Oct-09) 18-Oct-01 (in house check Oct-09)	Apr-10 Apr-10 Mar-10 Mar-10 Mar-10 Oct-10 Dec-10 Scheduled Check In house check: Oct-11
Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe H3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E	MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: S5129 (30b) SN: 6182 SN: 789 ID# US3642U01700 US37390585	1-Apr-09 (No. 217-01030) 31-Mar-09 (No. 217-01026) 31-Mar-09 (No. 217-01028) 31-Mar-09 (No. 217-01027) 3-Oct-09 (No. H3-6182_Oct09) 23-Dec-09 (No. DAE4-789_Dec09) Check Date (in house) 4-Aug-99 (in house check Oct-09) 18-Oct-01 (in house check Oct-09)	Apr-10 Apr-10 Mar-10 Mar-10 Oct-10 Dec-10 Scheduled Check In house check: Oct-11 in house check: Oct10
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Author Data

Daoud Attayi

Dates of Test

June 28-30, 2010

Report No **RTS-1689-1007-35**

L6ARCN70UW

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage

FCC ID

Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Glossary:

NORMx,y,z sensitivity in free space DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A, B, C modulation dependent linearization parameters

Polarization φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 3 = 0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

 iEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005.

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 for XY sensors and 9 = 90 for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
- X, Y,Z(f)_a0a1a2= X, Y,Z_a0a1a2* frequency_response (see Frequency Response Chart).
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- Ax,y,z; Bx,y,z; Cx,y,z, VRx,y,z: A, B, C are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the
 maximum calibration range expressed in RMS voltage across the diode.
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide setup.
- Sensor Offset. The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the X_a0a1a2 (no
 uncertainty required).



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FCC ID

L6ARCN70UW

H3DV6 SN:6168 March 12, 2010

Probe H3DV6

SN:6168

Manufactured: July 9, 2003 Last calibrated: March 3, 2009 Recalibrated: March 12, 2010

Calibrated for DASY Systems
(Note: non-compatible with DASY2 system!)

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FCC ID

H3DV6 SN:6168

March 12, 2010

DASY - Parameters of Probe: H3DV6 SN:6168

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (A/m / √(μV)) a	2.76E-3	2.64E-3	3.14E-3	± 5.1%
Norm (A/m / √(μV)) a	1-1.81E-4	-8.57E-5	-2.18E-4	± 5.1%
Norm (A/m / √(μV)) a	2.18E-5	-3.81E-5	3.05E-5	± 5.1%
DCP (mV) ^A	81.4	94.7	83.2	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dBuV	С	VR mV	Unc ^e (k=2)
10000	cw	0.00	х	0.00	0.00	1.00	300	± 1.5 %
			Y	0.00	0.00	1.00	300	
			z	0.00	0.00	1.00	300	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A numerical linearization parameter: uncertainty not required

Supportantly is determined using the maximum deviation from linear response applying recatangular distribution and is expressed for the square of the field value.

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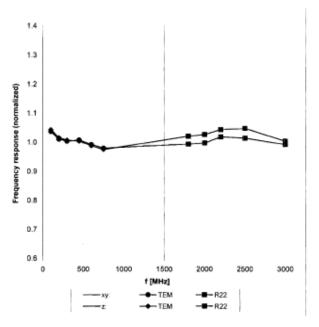
June 28-30, 2010 RTS-1689-1007-35

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H3DV6 SN:6168 March 12, 2010

Frequency Response of H-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)



Uncertainty of Frequency Response of H-field: ± 6.3% (k=2)

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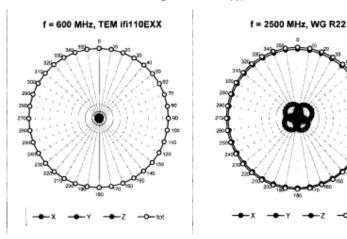
Report No **RTS-1689-1007-35**

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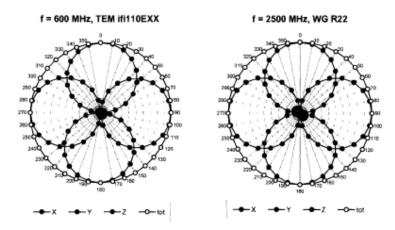
FCC ID

H3DV6 SN:6168 March 12, 2010

Receiving Pattern (ϕ), ϑ = 90°



Receiving Pattern (ϕ), θ = 0°



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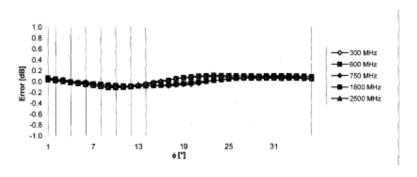
L6ARCN70UW

FCC ID

H3DV6 SN:6168

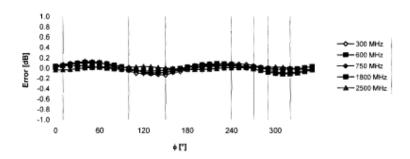
March 12, 2010

Receiving Pattern (ϕ), θ = 90°



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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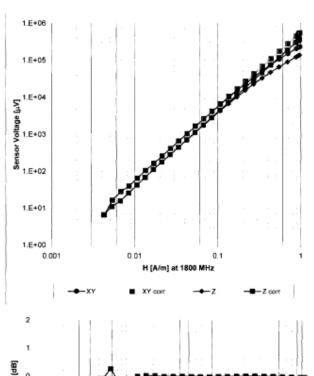
L6ARCN70UW

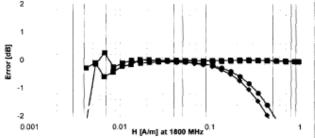
H3DV6 SN:6168

March 12, 2010

Dynamic Range f(H-field)

(Waveguide R22, f = 1800 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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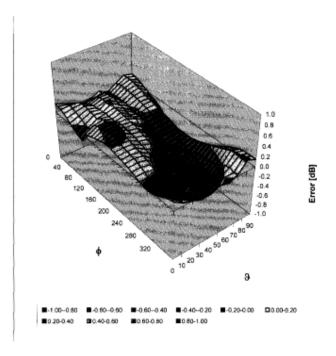
Testing Services™		Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCN72UW			
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	Daoud Attayi	June 28-30, 2010	RTS-1689-1007-35	L6ARCN70UW	7

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H3DV6 SN:6168

March 12, 2010

Deviation from Isotropy in Air Error (ϕ, ϑ) , f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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H3DV6 SN:6168 March 12, 2010

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (*)	-232.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	20 mm
Tip Diameter	6.0 mm
Probe Tip to Sensor X Calibration Point	3 mm
Probe Tip to Sensor Y Calibration Point	3 mm
Probe Tip to Sensor Z Calibration Point	3 mm