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Hearing Aid Compatibility(HAC) **TEST REPORT**

<For RF-Emission measurement>

Applicant Name	HTC Corporation
Address of Applicant	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
EUT Type	Pocket PC Phone
Model Number	HERO200
Date of receive	2009.05.22
Date of Test(s)	2009.06.11
Date of Issue	2009.06.23

Standards:

ANSI C63.19-2007

FCC RULE PART(S): 47 CFR PART 20.19(B)

HAC CATEGORY: M3 (M Category)

In the configuration tested, the EUT complied with the standards specified above. Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronics & Communication Laboratory or testing done by SGS Taiwan Electronics & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronics & Communication Laboratory in writing.

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Tested by :	ų.		Approved by:		0	
Ricky Huang		GUE	Robert Chang			_
Asst. Supervisor	Date:_	2009/06/22	Tech. Manager	Date:_	2009/06/23	

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1. Introduction

The purpose of the Hearing Aid Compatibility extension is to enable measurements of the near electric and magnetic fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2007

FCC has granted a request for waiver of the HAC rules in section 20.19 for dual band GSM handsets. The waiver has specific conditions, as stated in the order (FCC 05-166) and expires 1 August 2006.

The purpose of this standard is to establish categories for hearing aids and for WD (wireless communications devices) that can indicate to health care practitioners and hearing aid users which hearing aids are compatible with which WD, and to provide tests that can be used to assess the electromagnetic characteristics of hearing aids and WD and assign them to these categories. The various parameters required, in order to demonstrate compatibility and accessibility are measured. The design of the standard is such that when a hearing aid and WD achieve one of the categories specified, as measured by the methodology of this standard, the indicated performance is realized.

In order to provide for the usability of a hearing aid with a WD, several factors must be coordinated:

a) Radio frequency (RF) measurements of the near-field electric and magnetic fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing

Hence, the following are measurements made for the WD:

- a) RF E-Field emissions
- b) RF H-Field emissions

The measurement plane is parallel to, and 1.5cm in front of, the reference plane.

Applications for certification of equipment operation under part 20, that a manufacturer is seeking to certify as hearing aid compatible, as set forth in §20.19 of that part, shall include a statement indication compliance with the test requirements of §20.19 and indicating the appropriate U-rating for the equipment. The manufacturer of the equipment shall be responsible for maintaining the test results.

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2. Testing Laboratory

Company Name	SGS Taiwan Ltd. Electronics & Communication Laboratory	
Company address	134, Wu Kung Road, Wuku Industrial Zone Taipei,	
	Taiwan, R.O.C.	
Telephone	+886-2-2299-3279	
Fax	+886-2-2298-0488	
Website	http://www.tw.sgs.com/	

3. Details of Applicant

Applicant Name	HTC Corporation
Applicant Address	No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Contact Person	Lois Wu
TEL	+886-2-89124138
Fax	+886-2-89126307
E-mail	lois_wu@htc.com

4. Description of EUT

EUT Type	Pocket PC Phone	
FCC ID	NM8HERO200	
Model Name	HERO200	
Brand Name	HTC	
Freq. of Operation	cdma2000/EVDO on Cellular and PCS band	
MEID Manuf. Code	A1000007	
Definition	Production unit	

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Channel Number (ARFCN)	1013-777	25-1175
Maximum Output	Cellular	US PCS
Power Setting (dBm)	24.91dbm	24.88dbm
Duty Cycle	1	

5. Test Environment

Ambient Temperature	22.2° C
Relative Humidity	<60 %

6. System Specifications of DASY4

6.1 Measurement system Diagram for SPEAG Robotic

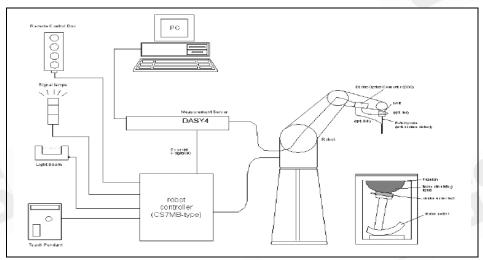


Fig 1. The SPEAG Robotic Diagram

The DASY4 system for performing compliance tests consists of the following items:

• A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).

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- E and H Field probe.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 2000 or Windows XP.
- · DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch phantom.
- The device holder for handheld mobile phones.
- Validation dipole kits allowing to validate the proper functioning of the system.

6.2 E and H Field Probe

O.Z L dild ii i i		
Construction	One dipole parallel, two dipoles normal to probe axis	
	Built-in shielding against static charges	
	PEEK enclosure material	
Calibration	In air from 100 MHz to 3.0 GHz (absolute	
	accuracy ±6.0%, k=2)	
Frequency	100 MHz to > 6 GHz (extended to 20 MHz	
	for MRI), Linearity: ± 0.2 dB (100 MHz to 3	
	GHz)	
		ER3DV6 E-Field Probe
Directivity	± 0.2 dB in air (rotation around probe axis)	
	± 0.4 dB in air (rotation normal to probe axi	s)
Dynamic Range	2 V/m to > 1000 V/m; Linearity: \pm 0.2 dB	
Dimensions	Overall length: 330 mm (Tip: 16 mm)	
	Tip diameter: 8 mm (Body: 12 mm)	
	Distance from probe tip to dipole centers: 2.5 mm	

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Application	General near-field measurements up to 6 GHz
	Field component measurements
	Fast automatic scanning in phantoms

Construction	Three concentric loop sensors with 3.8 mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)	
Frequency	200 MHz to 3 GHz (absolute accuracy ± 6.0%, k=2); Output linearized	H3DV6 H-Field Probe
Directivity	± 0.2 dB (spherical isotropy error)	
Dynamic Range	10 mA/m to 2 A/m at 1 GHz	
E-Field Interference	< 10% at 3 GHz (for plane wave)	
Dimensions	Overall length: 330 mm (Tip: 40 mm) Tip diameter: 6 mm (Body: 12 mm) Distance from probe tip to dipole centers: 3 mm	
Application	General magnetic near-field measurements up to 3 GHz (in air or liquids) Field component measurements Surface current measurements Low interaction with the measured field	

6.3 Test Arch

0.0 1050711011		
Description	Enables easy and well defined positioning of	
	the phone and validation dipoles as well as	
	simple teaching of the robot.	
Dimensions	length: 370 mm	
	width: 370 mm	
	height: 370 mm	
	J. Company of the com	Test Arch

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6.4 Phone Holder

O. I I HOUSE HOR	361	
Description	Supports accurate and reliable positioning	
	of any phone Effect on near field <+/- 0.5	-
	dB	
		F
		Phone Holder

7. Measurement Procedure

The following illustrate a typical RF emissions test scan over a wireless communications device:

- 1. Proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed.
- 2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.
- 3. the WD operation for maximum rated RF output power was configured and confirmed with the base station simulator, at the test channel and other normal operating parameters as intended for the test. The battery was ensured to be fully charged before each test.
- 4. the center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The WD audio output was positioned tangent (as physically possible) to the measurement plane.
- 5. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC Phantom.
- 6. The measurement system measured the field strength at the reference location.
- 7. Measurements at 2mm increments in the 5×5 cm region were performed and recorded. A 360° rotation about the azimuth axis at the maximum interpolated position was

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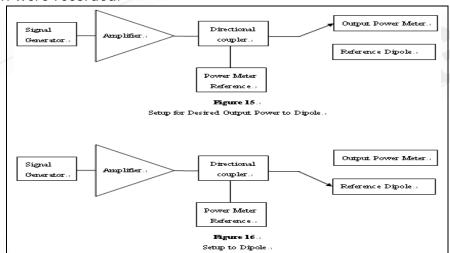
measured. For the worst-case condition, the peak reading from this rotation was used in re-evaluating the HAC category.

- 8. The system performed a drift evaluation by measuring the field at the reference location.
- 9. Steps 1-8 were done for both the E and H-Field measurements.

8. System Verification

A dipole antenna meeting the requirements given in C63.19 was placed in the position normally occupied by the WD.

The length of the dipole was scanned with both E-field and H-field probes and the maximum values for each were recorded.



For E-Field Scan

Mode	Frequency	Input	Measured	Target	Measured
	(MHz)	Power(dBm)	Value(V/m)	Value(V/m)	Date
CW	835	20	169.6	168.7	2009/06/11
Mode	Frequency	Input	Measured	Target	Measured
	(MHz)	Power(dBm)	Value(V/m)	Value(V/m)	Date
CW	1880	20	144.4	138.3	2009/06/11

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For H-Field Scan

	_		·		
Mode	Fraguanay	Input	Measured	Target	Measured
Mode	Frequency	Power	Value(A/m)	Value(A/m)	Date
CW	835	20	0.464	0.457	2009/06/11
Mode	Eroguepey	Input	Measured	Target	Measured
Mode	Frequency	Power	Value(A/m)	Value(A/m)	Date
CW	1880	20	0.468	0.463	2009/06/11

9. Probe Modulation Factor

The measurement setup for determination of the PMF is given in DASY4 manual section 28.2. The following points describe the installation, the measurement procedure and the evaluation.

- 1. Install the field probe in the DASY4 window setup.
- 2. Mount a validation dipole for the appropriate frequency band under the Test Arch. Move the probe manually to a point of high field strength for the specific field type. The probe may be very close to the dipole and might even touch it. During the fine adjustment of the probe with a signal applied to the dipole, read the x, y and z channel amplitudes in a multimeter job. They should all show a similar amplitude.
- 3. For comparing the peak amplitudes of modulated and CW signal, the same spectrum analyzer settings are required. The signal path (and setup geometry) between spectrum analyzer and probe must not be changed during the evaluation of the PMF! Only signal type and amplitudes as well as DASY4 settings may be varied.

Spectrum analyzer settings:

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- Center Frequency: nominal center frequency of channel
- · Span: zero
- Resolution bandwidth >= emission bandwidth
- Video bandwidth = 20dB
- Detection: RMS detection
- Trigger: Video or IF trigger, adjusted to give a stable display of the transmission
- Sweep rate: Set to show a complete tranmission cycle
- Line max hold may be used temporarily to ease the peak reading.
- 4. Define a DASY4 document and set the procedure properties (frequency as above, modulation frequency and crest factor for the modulated signal) according to the measured signal. Define a multimeter job (continuous mode) for the field reading. The probe shall not move. A predefined document is available.
- 5. Define a DASY4 document with a procedure for the evaluation of the CW signal (frequency, modulation frequency = 0, crest factor = 1) with a multimeter job.

The HAC measurement procedure is as follows:

- 6. Prepare the evaluation sheet for the installed field probe, frequency and modulation type.
- 7. Modulated signal measurement: Connect the modulated signal using the appropriate frequency via the cable to the setup. Do not move the setup between the following measurements.
- 8. Run the multimeter job in the procedure with the corresponding modulation setting in continuous mode.
- 9. Adjust the signal amplitude to achieve the the desired field level display in the multimeter. (A number of levels over the full dynamic range of the probe in the desired range shall be set, including the values read during the WD scans.)
- 10. Read the total field for the modulated signal.
- 11. Read the peak envelope signal on the spectrum analyzer.
- 12. Repeat these readings for other amplitude settings.
- 13. Switch the signal source off and verify that the ambient and instrumentation noise level is at least 10dB lower (a factor of 3 in field).
- 14. CW measurement: Change the signal to CW at the same center frequency, without touching or moving dipole or probe in the setup.

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15. Adjust the CW signal amplitude to a similar range of peak levels on the spectrum analyzer.

- 16. Run the multimeter in the CW procedure in continuous mode.
- 17. Read the multimeter total field display.
- 18. Read the signal on the spectrum analyzer.
- 19. Repeat these readings for other amplitude settings.
- 20. Select the correct type of predefined Excel calculation sheet and insert the readings into the appropriate measurement columns. Conversion from linear DASY readings to logarithmic will be automatically made. The diagrams contain fitting curves for the logarithmic quantities. CW and E-field values will be fitted by linear trendlines, H-field values by quadratic.

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10. Test Standards and Limits

The measurements were performed to ensure compliance to the ANSI C63.19-2007 standard,

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
M2	0	112.2 - 199.5	0.34 - 0.6
МЗ	0	63.1 - 112.2	0.19 - 0.34
M4	0	<63.1	<0.19
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
M2	0	354.8 - 631	1.07 - 1.91
М3	0	199.5 - 354.8	0.6 - 1.07
M4	0	<199.5	<0.6

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11. Instruments List

				Date of last
Manufacturer	Device	Туре	Serial number	calibration
Schmid & Partner	E-Field and H-Field	ER3DV6	2306	Apr.27.2009
Engineering AG	Probe	H3DV6	6142	Apr.27.2009
Schmid & Partner Engineering AG	835&1880 MHz System Validation Dipole In Air	CD835V3 CD1880V3	1052 1044	Apr.22.2009 Apr.22.2009
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Jan.20.2009
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build 80	N/A	Calibration isn't necessary
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary
Agilent	Dual-directional coupler	778D	50313	Aug.26.2008
Agilent	RF Signal Generator	8648D	3847M00432	May.25.2009
Agilent	Power Sensor	U2001B	MY48100169	Apr.09.2009
R&S	Radio Communication Test	CMU200	113505	Sep.03.2008
Schmid & Partner Engineering AG	Test Arch SD HAC	P01	1047	N/A

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12. Summary of Results

E-Field

E-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (V/m)	RESULT	Excl Blocks per 4.3.1.2.2
		1013	0.991	24.56	0.173	62.1	M4	789
CDMA	Cellular	384	0.991	24.87	-0.065	67.5	M4	789
		777	0.991	24.69	-0.013	75	M4	789
E-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (V/m)	RESULT	Excl Blocks per 4.3.1.2.2
		25	0.986	24.4	0.015	48.2	M4	789
CDMA	US PCS	600	0.986	24.79	0.030	63.1	M3	789
	1	1175	0.986	24.88	0.080	60.6	M4	789

H-Filed

H-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (A/m)	RESULT	Excl Blocks per 4.3.1.2.2
		1013	0.987	24.56	-0.096	0.146	M4	478
CDMA	Cellular	384	0.987	24.87	-0.166	0.155	M4	478
		777	0.987	24.69	-0.047	0.174	M4	478
H-Field			Modulation	Conducte d Power	Measured	Time Avg.		Excl Blocks
Emission	Band	Channel	Factor	at BS (dBm)	Drift(%)	Field (A/m)	RESULT	per 4.3.1.2.2
	Band	Channel 25		at BS		Field	M3	per
	Band US PCS		Factor	at BS (dBm)	Drift(%)	Field (A/m)		per 4.3.1.2.2

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13. Measurement Data

Date/Time: 2009/6/11 02:18:59

HAC_E_Cellular_CH1013

DUT: HERO200:

Communication System: CDMA 850; Frequency: 824.7 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 62.1 V/m

Probe Modulation Factor = 0.991

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 76.3 V/m; Power Drift = 0.173 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 45.0 M4		Grid 3 48.1 M4
Grid 4	Grid 5	Grid 6

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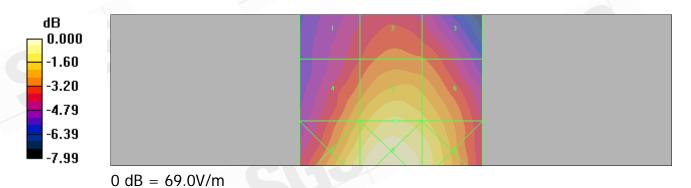
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55.0 M4	62.1 M4	58.7 M4
Grid 7	Grid 8	Grid 9
64.4 M4	69.0 M4	64.2 M4

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	x1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 02:41:54

HAC_E_Cellular_CH384

DUT: HERO200;

Communication System: CDMA_850; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 67.5 V/m

Probe Modulation Factor = 0.991

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 83.1 V/m; Power Drift = -0.065 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
49.0 M4	53.7 M4	52.4 M4
Grid 4	Grid 5	Grid 6
60.0 M4	67.5 M4	64.9 M4
		64.9 M4 Grid 9

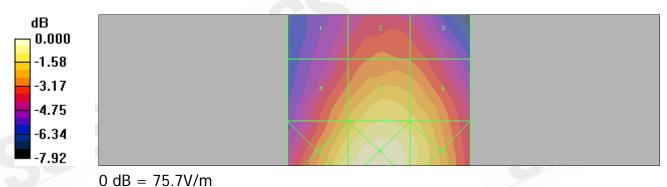
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 03:02:51

HAC_E_Cellular_CH777

DUT: HERO200;

Communication System: CDMA_850; Frequency: 848.31 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 75.0 V/m

Probe Modulation Factor = 0.991

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 91.4 V/m; Power Drift = -0.013 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
51.9 M4	59.4 M4	58.2 M4
Grid 4	Grid 5	Grid 6
65.7 M4	75.0 M4	72.5 M4
Grid 7	Grid 8	Grid 9
70 4 5 4 4	OF O BAA	79.3 M4

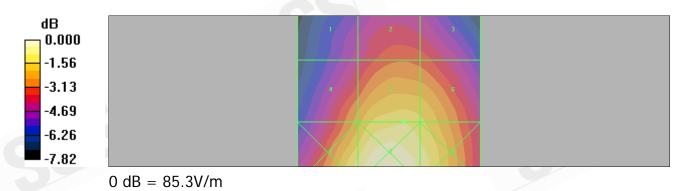
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	470.0 041.4	
	-3	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.43 - 2.54 1.07 - 1.91
M2			
M2 M3	0	354.8 - 631	1.07 - 1.91
	-5	354.8 - 631 266.1 - 473.2	1.07 - 1.91 0.8 - 1.43
	0 -5 0	354.8 - 631 266.1 - 473.2 199.5 - 354.8	1.07 - 1.91 0.8 - 1.43 0.6 - 1.07



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Date/Time: 2009/6/11 08:16:44

HAC_E_PCS_CH25

DUT: HERO200;

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 48.2 V/m

Probe Modulation Factor = 0.986

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 55.0 V/m; Power Drift = 0.015 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
36.4 M4	43.9 M4	43.8 M4
Grid 4	Grid 5	Grid 6
42.6 M4	47.1 M4	48.2 M4
0 1 1 7	0.1.1.0	0.1.1.0
Grid 7	Grid 8	Grid 9

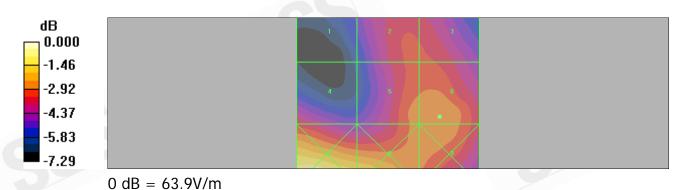
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 08:38:04

HAC_E_PCS_CH600

DUT: HERO200;

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 63.1 V/m

Probe Modulation Factor = 0.986

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 69.9 V/m; Power Drift = 0.030 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
47.6 M4	57.9 M4	57.9 M4
Grid 4	Grid 5	Grid 6
52.5 M4	61.7 M4	63.1 M4
		63.1 M4 Grid 9

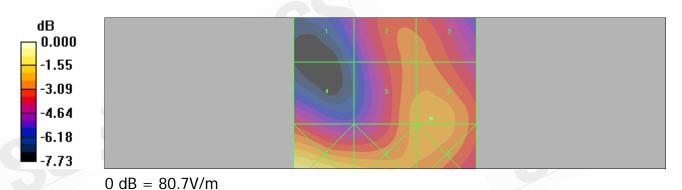
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 09:01:12

HAC_E_PCS_CH1175

DUT: HERO200;

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 60.6 V/m

Probe Modulation Factor = 0.986

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 66.0 V/m; Power Drift = 0.080 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
47.4 M4	56.5 M4	55.9 M4
Grid 4	Grid 5	Grid 6
46.2 M4	59.5 M4	60.6 M4
46.2 M4 Grid 7		60.6 M4 Grid 9

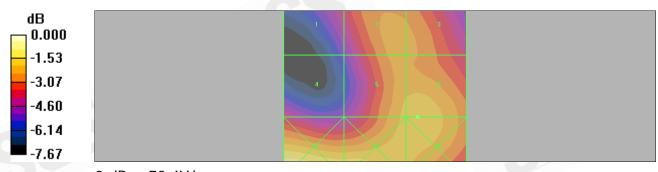
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



0 dB = 73.4V/m

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Date/Time: 2009/6/11 05:11:55

HAC_H_Cellular_CH1013

DUT: HERO200;

Communication System: CDMA_850; Frequency: 824.7 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement discance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.146 A/m

Probe Modulation Factor = 0.987

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.182 A/m; Power Drift = -0.096 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.129 M4	0.129 M4	0.111 M4
Grid 4	Grid 5	Grid 6
0.143 M4	0.146 M4	0.124 M4
Grid 7	Grid 8	Grid 9
0.143 M4	0.146 M4	0.123 M4

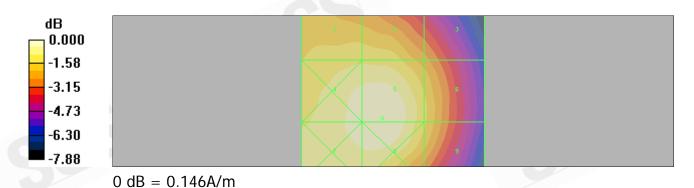
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 05:32:06

HAC_H_Cellular_CH384

DUT: HERO200;

Communication System: CDMA_850; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement discance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.155 A/m

Probe Modulation Factor = 0.987

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.195 A/m; Power Drift = -0.166 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.136 M4	0.137 M4	0.118 M4
Grid 4	Grid 5	Grid 6
0.151 M4	0.155 M4	0.133 M4
Grid 7	Grid 8	Grid 9
0.150 M4	0.154 M4	0.133 M4

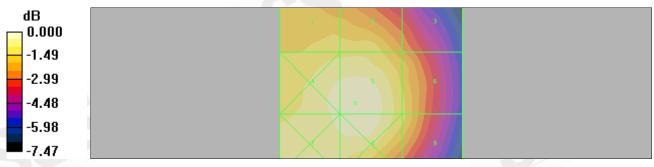
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	470.0 041.4	
	-3	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.43 - 2.54 1.07 - 1.91
M2			
M2 M3	0	354.8 - 631	1.07 - 1.91
	-5	354.8 - 631 266.1 - 473.2	1.07 - 1.91 0.8 - 1.43
	0 -5 0	354.8 - 631 266.1 - 473.2 199.5 - 354.8	1.07 - 1.91 0.8 - 1.43 0.6 - 1.07



0 dB = 0.155A/m

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Date/Time: 2009/6/11 05:55:53

HAC_H_Cellular_CH777

DUT: HERO200;

Communication System: CDMA_850; Frequency: 848.31 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement discance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.174 A/m

Probe Modulation Factor = 0.987

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.215 A/m; Power Drift = -0.047 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.151 M4	0.152 M4	0.131 M4
Grid 4	Grid 5	Grid 6
0.170 M4	0.174 M4	0.147 M4
Grid 7	Grid 8	Grid 9
0.169 M4	0.174 M4	0.147 M4

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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	472.2 041.4	4 40 0 54
	-3	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.43 - 2.54 1.07 - 1.91
M2			
M2 M3	0	354.8 - 631	1.07 - 1.91
	-5	354.8 - 631 266.1 - 473.2	1.07 - 1.91 0.8 - 1.43
	0 -5 0	354.8 - 631 266.1 - 473.2 199.5 - 354.8	1.07 - 1.91 0.8 - 1.43 0.6 - 1.07



0 dB = 0.174A/m

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Date/Time: 2009/6/11 11:56:22

HAC_H_PCS_CH25

DUT: HERO200;

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement discance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.234 A/m

Probe Modulation Factor = 0.975

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.284 A/m; Power Drift = 0.057 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.182 M4	0.189 M4	0.166 M4
Grid 4	Grid 5	Grid 6
0.222 M3	0.234 M3	0.193 M3
Grid 7	Grid 8	Grid 9
0.223 M3	0.235 M3	0.192 M3

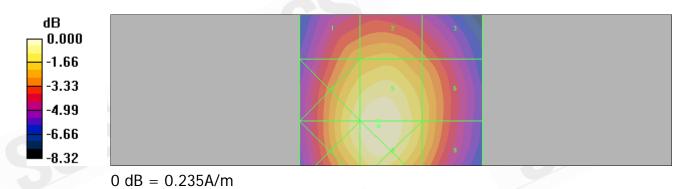
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 12:29:17

HAC_H_PCS_CH600

DUT: HERO200;

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement discance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.306 A/m

Probe Modulation Factor = 0.975

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.379 A/m; Power Drift = 0.016 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.239 M3	0.247 M3	0.215 M3
Grid 4	Grid 5	Grid 6
0.290 M3	0.306 M3	0.249 M3
Grid 7	Grid 8	Grid 9

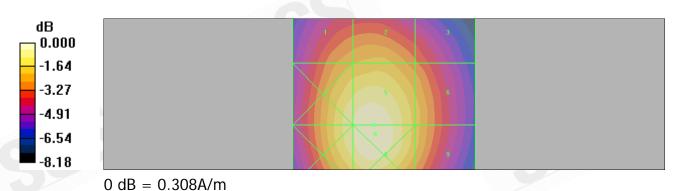
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2 2009/6/11 12:55:14

HAC_H_PCS_CH1175

DUT: HERO200;

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement discance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.290 A/m

Probe Modulation Factor = 0.975

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.358 A/m; Power Drift = -0.014 dB Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.218 M3	0.227 M3	0.196 M3
Grid 4	Grid 5	Grid 6
0.273 M3	0.290 M3	0.237 M3
Grid 7	Grid 8	Grid 9
0.274 M3	0.292 M3	0.237 M3

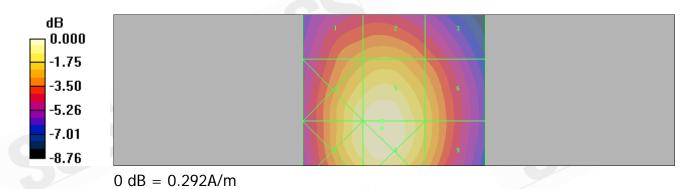
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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14. System Verification

Date/Time: 2009/6/11 07:29:59

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1052

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Dipole Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 169.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 103.5 V/m; Power Drift = -0.018 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

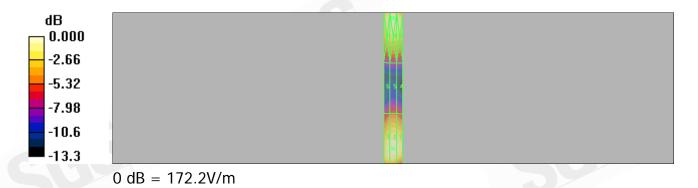
Grid 1	Grid 2	Grid 3
165.2 M4	169.6 M4	164.6 M4
Grid 4	Grid 5	Grid 6
90.1 M4	91.7 M4	88.9 M4
Grid 7	Grid 8	Grid 9
166.0 M4	172.2 M4	167.1 M4

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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
181	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Date/Time: 2009/6/11 01:32:25

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1052

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.464 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.491 A/m; Power Drift = -0.004 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.369 M4	0.405 M4	0.395 M4
Grid 4	Grid 5	Grid 6
0.424 M4	0.464 M4	0.453 M4
Grid 7	Grid 8	Grid 9
0.382 M4	0.418 M4	0.410 M4

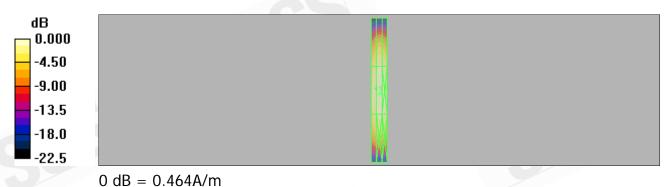
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	470.0 041.4	
	-3	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.43 - 2.54 1.07 - 1.91
M2			
M2 M3	0	354.8 - 631	1.07 - 1.91
	-5	354.8 - 631 266.1 - 473.2	1.07 - 1.91 0.8 - 1.43
	0 -5 0	354.8 - 631 266.1 - 473.2 199.5 - 354.8	1.07 - 1.91 0.8 - 1.43 0.6 - 1.07



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Date/Time: 2009/6/11 11:05:25

DUT: HAC-Dipole 1880MHz; Type: CD1880V3; Serial: 1044

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Dipole Section

DASY4 Configuration:

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 144.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 164.8 V/m; Power Drift = -0.012 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
144.0 M2	145.5 M2	139.5 M2
Grid 4	Grid 5	Grid 6
103.8 M3	104.9 M3	98.7 M3
Grid 7	Grid 8	Grid 9
137.3 M2	144.4 M2	143.0 M2

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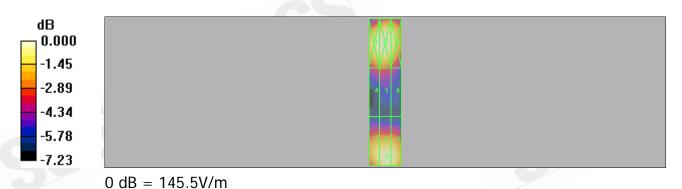
台灣檢驗科技股份有限公司

No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	470.0 041.4	
	-3	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.43 - 2.54 1.07 - 1.91
M2			
M2 M3	0	354.8 - 631	1.07 - 1.91
	-5	354.8 - 631 266.1 - 473.2	1.07 - 1.91 0.8 - 1.43
	0 -5 0	354.8 - 631 266.1 - 473.2 199.5 - 354.8	1.07 - 1.91 0.8 - 1.43 0.6 - 1.07



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Date/Time: 2009/6/11 04:39:00

DUT: HAC-Dipole 1880MHz; Type: CD1880V3; Serial: 1044

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2009/4/27

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2009/1/20

Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.468 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.493 A/m; Power Drift = -0.005 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.392 M2	0.429 M2	0.415 M2
Grid 4	Grid 5	Grid 6
0.432 M2	0.468 M2	0.459 M2
Grid 7	Grid 8	Grid 9
0.392 M2	0.432 M2	0.424 M2

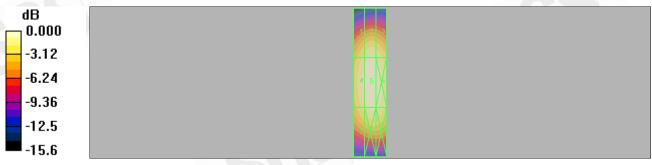
Category	AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6

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	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



0 dB = 0.468A/m

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15. DAE & Probe Calibration certificate

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





Service suisse d'étalonnage Servizio svizzero di taratura

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

SCS (Audon)

Certificate No: DAE4-547 Jan09

Object	DAE4 - SD 000 D	04 BJ - SN: 547	
Calibration procedure(s)	QA CAL-06.v12 Calibration proceed	dure for the data acquisition	electronics (DAE)
Calibration date:	January 19, 2009		
Condition of the calibrated item	In Tolerance		
Calibration Equipment used (M&	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards		Cal Date (Certificate No.)	Scheduled Calibration
	'02 SN: 6295803	30-Sep-08 (No: 7673)	Sep-09
Fluke Process Calibrator Type 7	O2 SN: 6295803 SN: 0810278	30-Sep-08 (No: 7673) 30-Sep-08 (No: 7670)	Sep-09 Sep-09
Fluke Process Calibrator Type 7 Keithley Multimeter Type 2001 Secondary Standards		30-Sep-08 (No: 7670) Check Date (in house)	
Fluke Process Calibrator Type 7 Keithley Multimeter Type 2001 Secondary Standards Calibrator Box V1.1	SN: 0810278	30-Sep-08 (No: 7670) Check Date (in house)	Sep-09 Scheduled Check
Fluke Process Calibrator Type 7 Keithley Multimeter Type 2001 Secondary Standards	SN: 0810278	30-Sep-08 (No: 7670) Check Date (in house)	Sep-09 Scheduled Check In house check: Jun-09 Signature
Fluke Process Calibrator Type 7 Keithley Multimeter Type 2001 Secondary Standards	SN: 0810278 ID # SE UMS 006 AB 1004	30-Sep-08 (No: 7670) Check Date (in house) 06-Jun-08 (in house check)	Sep-09 Scheduled Check In house check: Jun-09

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Calibration Laboratory of

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





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

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SGS (Auden)

Accreditation No.: SCS 108

Certificate No: ER3-2306_Apr09

CALIBRATION CERTIFICATE

ER3DV6 - SN:2306 Object

Calibration procedure(s) QA CAL-02.v5

Calibration procedure for E-field probes optimized for close near field

evaluations in air

April 27, 2009 Calibration date

In Tolerance Condition of the calibrated item

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)

GB41293874	1-Apr-09 (No. 217-01030)	Apr-10
MY41495277	1-Apr-09 (No. 217-01030)	Apr-10
MY41498087	1-Apr-09 (No. 217-01030)	Apr-10
SN: S5054 (3c)	31-Mar-09 (No. 217-01026)	Mar-10
SN: S5086 (20b)	31-Mar-09 (No. 217-01028)	Mar-10
SN: S5129 (30b)	31-Mar-09 (No. 217-01027)	Mar-10
SN: 2328	1-Oct-08 (No. ER3-2328_Oct08)	Oct-09
SN: 789	19-Dec-08 (No. DAE4-789_Dec08)	Dec-09
ID#	Check Date (in house)	Scheduled Check
US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
US37390585	18-Oct-01 (in house check Oct-08)	In house check: Oct-09
Name	Function	Signature
Katja Pokovic	Technical Manager	Sof My
Niels Kuster	Quality Manager	16
		V./805
	MY41495277 MY41498087 SN: S5054 (3c) SN: S5056 (20b) SN: S5129 (30b) SN: 2328 SN: 789 ID# US3642U01700 US37390585 Name Katja Pokovic	MY41495277 1-Apr-09 (No. 217-01030) MY41498087 1-Apr-09 (No. 217-01030) SN: S5084 (3c) 31-Mar-09 (No. 217-01026) SN: S5129 (30b) 31-Mar-09 (No. 217-01027) SN: 2328 1-Oct-08 (No. ER3-2328_Oct08) SN: 789 19-Dec-08 (No. DAE4-789_Dec08) ID # Check Date (in house) US3642U01700 4-Aug-99 (in house check Oct-07) US37390585 18-Oct-01 (in house check Oct-08) Name Function Katja Pokovic Technical Manager

Certificate No: ER3-2306 Apr09

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C

Schweizerischer Kalibrierdienst

Service suisse d'étalonnage 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 Polarization φ 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., ϑ = 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 (no uncertainty required). DCP does not depend on frequency.
- 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).

Certificate No: ER3-2306_Apr09

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ER3DV6 SN:2306

April 27, 2009



SN:2306

Manufactured:

December 17, 2002

Last calibrated: Recalibrated:

April 17, 2008 April 27, 2009

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ER3-2306_Apr09

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ER3DV6 SN:2306

April 27, 2009

DASY - Parameters of Probe: ER3DV6 SN:2306

Sensitivity in Free Space [μV/(V/m)²]

Diode Compression^A

96 mV

NormX 1.11 ± 10.1 % (k=2) NormY 1.13 ± 10.1 % (k=2) NormZ 1.27 ± 10.1 % (k=2)

DCP Y 96 mV DCP Z 99 mV

DCP X

Frequency Correction

X 0.0 0.0 7 0.0

Sensor Offset (Probe Tip to Sensor Center)

> 2.5 mm 2.5 mm Z 2.5 mm

Connector Angle -226°

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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Certificate No: ER3-2306_Apr09

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numerical linearization parameter; uncertainty not required



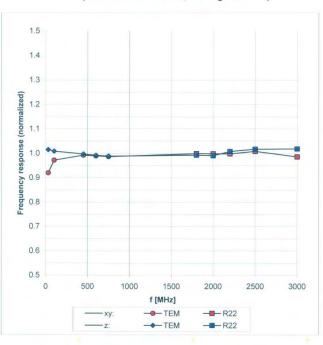
Page: 53 of 81

ER3DV6 SN:2306

April 27, 2009

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)



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

Certificate No: ER3-2306_Apr09

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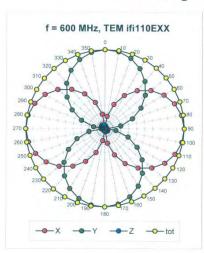


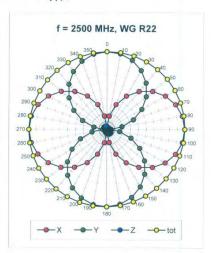
Page: 54 of 81

ER3DV6 SN:2306

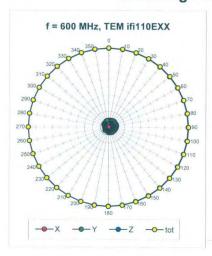
April 27, 2009

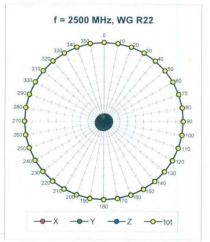
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





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





Certificate No: ER3-2306 Apr09

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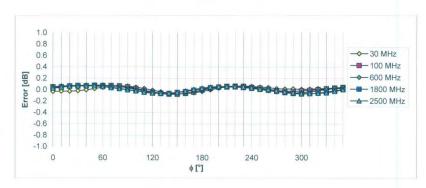


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ER3DV6 SN:2306

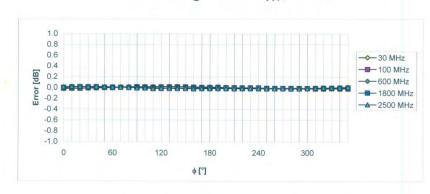
April 27, 2009

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



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

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



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

Certificate No: ER3-2306_Apr09

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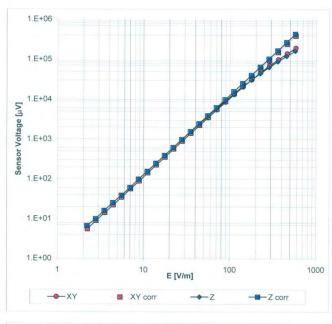


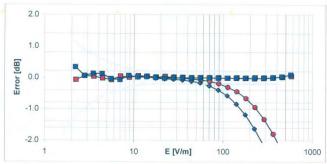
ER3DV6 SN:2306

April 27, 2009

Dynamic Range f(E-field)

(Waveguide R22, f = 1800 MHz)





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

Certificate No: ER3-2306_Apr09

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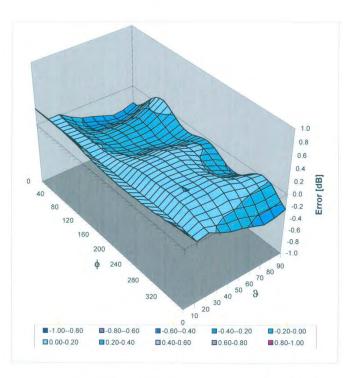


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April 27, 2009

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



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

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

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

SGS (Auden)

Certificate No: H3-6142_Apr09

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE

H3DV6 - SN:6142 Object

Calibration procedure(s) QA CAL-03.v5

Calibration procedure for H-field probes optimized for close near field

evaluations in air

April 27, 2009 Calibration date

Condition of the calibrated item In Tolerance

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 H3DV6	SN: 6182	1-Oct-08 (No. H3-6182_Oct08)	Oct-09
DAE4	SN: 789	19-Dec-08 (No. DAE4-789_Dec08)	Dec-09
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-08)	In house check: Oct-09
	Name	Function	Cianatura

Calibrated by Katja Pokovic Technical Manager

Niels Kuster Quality Manager Approved by:

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Certificate No: H3-6142 Apr09

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Issued: April 27, 2009



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Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

NORMx,y,z sensitivity in free space DCP diode compression point Polarization o 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., 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:

- X, Y, Z_a0a1a2: Assessed for E-field polarization $\theta = 90$ for XY sensors and $\theta = 0$ 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 (no uncertainty required). DCP does not depend on frequency.
- 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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H3DV6 SN:6142

April 27, 2009

Probe H3DV6

SN:6142

Manufactured:

July 3, 2002 April 21, 2008

Last calibrated: Recalibrated:

April 27, 2009

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: H3-6142_Apr09

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H3DV6 SN:6142

April 21, 2008



Probe H3DV6

SN:6142

Manufactured: Last calibrated: Recalibrated:

July 3, 2002 April 20, 2007 April 21, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: H3-6142_Apr06

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H3DV6 SN:6142

April 27, 2009

DASY - Parameters of Probe: H3DV6 SN:6142

Sensitivity in Free Space [A/m / √(µV)]

	a0 a	a1	a2	
X	2.743E-03	-1.034E-4	-1.138E-5	± 5.1 % (k=2)
Y	2.722E-03	-1.151E-4	1.011E-5	± 5.1 % (k=2)
Z	3.121E-03	-3.459E-4	4.339E-5	± 5.1 % (k=2)

Diode Compression¹

DCP X	82 mV
DCP Y	89 mV
DCP Z	82 mV

Sensor Offset (Probe Tip to Sensor Center)

3.0 mm
3.0 mm
3.0 mm

Connector Angle -248

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%.

numerical linearization parameter: uncertainty not required

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Certificate No: H3-6142_Apr09

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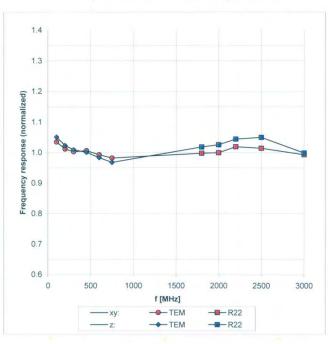
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H3DV6 SN:6142

April 27, 2009

Frequency Response of H-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)



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

Certificate No: H3-6142 Apr09

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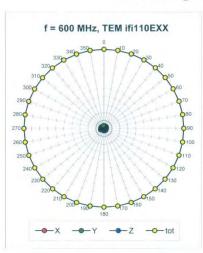


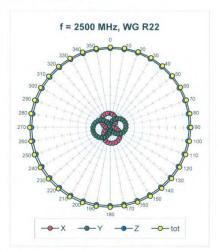
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H3DV6 SN:6142

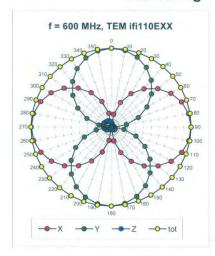
April 27, 2009

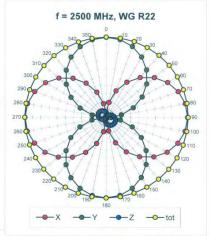
Receiving Pattern (ϕ), θ = 90°





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





Certificate No: H3-6142_Apr09

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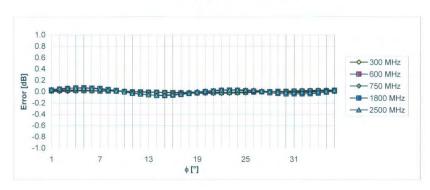


Page: 65 of 81

H3DV6 SN:6142

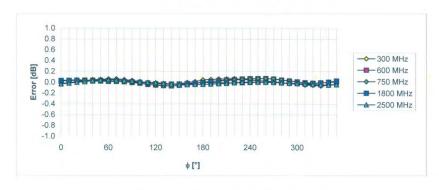
April 27, 2009

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



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

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



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

Certificate No: H3-6142_Apr09

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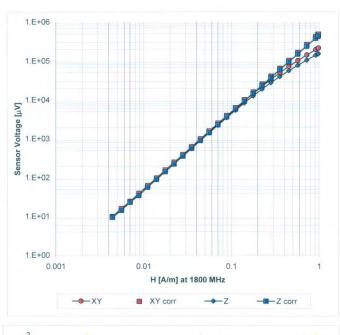


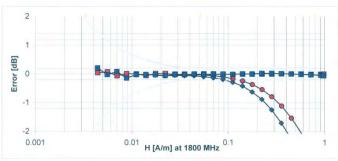
Page: 66 of 81



Dynamic Range f(H-field)

(Waveguide R22, f = 1800 MHz)





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

Certificate No: H3-6142_Apr09

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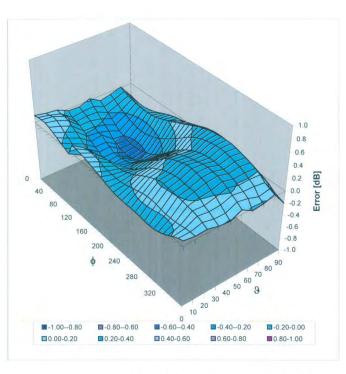
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H3DV6 SN:6142

April 27, 2009

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



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

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16. Uncertainty Analysis

HAC-Extension Setup Performance Test Using SPEAG Calibration Dipoles

Error Description	Uncertainty value	Prob. Dist.	Div.	(c_i)	(c_i) Π	Std. Unc.	Std. Unc.
Measurement System							
Probe Calibration	15.1%	N	1	1	1	15.1%	±5.1 %
Axial Isotropy	14.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
Sensor Displacement	116.5%	R	$\sqrt{3}$	1	0.145	±9.5%	±1.4%
Boundary Effects	±2.4 %	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
Scaling to Peak Envelope Power	±0%	R	$\sqrt{3}$	1	1	±0%	±0%
System Detection Limit	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3 %
Response Time	±0%	R	$\sqrt{3}$	1	1	±0%	±0%
Integration Time	±0%	R	$\sqrt{3}$	1	1	±0%	±0%
RF Ambient Conditions	13.0%	R	$\sqrt{3}$	1	I	±1.7%	11.7%
RF Reflections	16.0%	R	$\sqrt{3}$	1	1	±3.5 %	+3.5 %
Probe Positioner	±1.2%	R	$\sqrt{3}$	-1	0.67	±0.7%	±0.5 %
Probe Positioning	±4.7%	R	$\sqrt{3}$	1	0.67	±2.7%	±1.8%
Extrap. and Interpolation	11.0%	R	$\sqrt{3}$	1	1	10.6%	+0.6%
Dipole Related							
Distance Dipole - Scanning Plane	±5.2%	R.	$\sqrt{3}$	1	0.3	±3.0 %	±0.9%
Input power	±4.7%	N	1	1	1	±4.7%	=4.7%
Combined Std. Uncertainty		4				±13.7 %	±9.3 %
Expanded Std. Uncertainty or						27.4 %	18.6 %
Expanded Std. Uncertainty or	ı Field					=13.7 %	=9.3 %

Table 28.1: Uncertainty budget for HAC setup performance test. The budget is valid for the frequency range 800 MHz - 3 GHz and represents a worst-case analysis with respect to power uncertainty of the field. Some of the parameters are dependent on the user situations and need adjustment according to the actual laboratory conditions.

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17. System Validation from Original equipment supplier

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





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Accreditation No.: SCS 108

C

SGS (Auden)

Certificate No: CD835V3-1052 Apr09

Object	CD835V3 - SN	: 1052	
Calibration procedure(s)	QA CAL-20.v4	cedure for dipoles in air	
	Campration pro-		and the second
Calibration date:	April 22, 2009	The second second second	(19) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
Condition of the calibrated item	In Tolerance		
		national standards, which realize the physical unit	
All calibrations have been condu	cted in the closed labora	atory 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 EPM-442A	GB37480704	08-Oct-08 (No. 217-00898)	Oct-09
Power sensor HP 8481A	US37292783	08-Oct-08 (No. 217-00898)	Oct-09
Probe ER3DV6	SN: 2336	22-Dec-08 (No. ER3-2336 Dec08)	Dec-09
Probe H3DV6	SN: 6065	22-Dec-08 (No. H3-6065 -Dec08)	Dec-09
DAE4	SN: 781	20-Feb-09 (No. DAE4-781_Feb09)	Feb-10
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter R&S NRP	SN: 101748	23-Sep-08 (in house check Dec-08)	In house check: Dec-10
Power sensor R&S NRP-Z91	SN: 100711	25-Aug-08 (in house check Dec-08)	In house check: Dec-10
Power sensor R&S NRP-Z91	SN: 100712	25-Aug-08 (in house check Dec-08)	In house check: Dec-10
	US37390585	18-Oct-01 (in house check Oct-08)	In house check: Oct-09
Network Analyzer HP 8753E	MY 41310391	03-Nov-04 (in house check Oct-07)	In house check; Oct-09
Network Analyzer HP 8753E RF generator E4433B	INT 41310391		
	Name	Function	Signature
		Function Laboratory Technician	Signature
RF generator E4433B	Name	Laboratory Technician	Signature

Certificate No: CD835V3-1052 Apr09

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3.3.2 DASY4 H-field Result

Date/Time: 21.04.2009 12:38:12

Test Laboratory: SPEAG Lab 2

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1052

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: $\sigma=0$ mho/m, $\epsilon_r=1$; $\rho=1$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: H3DV6 - SN6065; ; Calibrated: 22.12.2008

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn781; Calibrated: 20.02.2009

Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole =

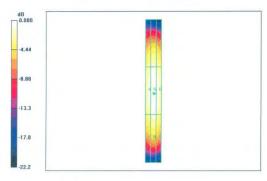
10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.457 A/m Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.486 A/m; Power Drift = -0.014 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.380 M4	0.403 M4	0.383 M4
Grid 4	Grid 5	Grid 6
0.427 M4	0.457 M4	0.437 M4
Grid 7	Grid 8	Grid 9
0.378 M4	0.409 M4	0.391 M4



0 dB = 0.457 A/m

Certificate No: CD835V3-1052 Apr09

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Date/Time: 22.04.2009 13:19:44

Test Laboratory: SPEAG Lab 2

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1052 Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: $\sigma=0$ mho/m, $\epsilon_r=1$; $\rho=1000$ kg/m³ Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

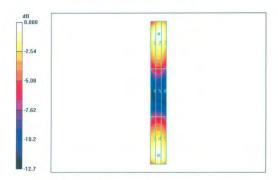
- Probe: ER3DV6 SN2336; ConvF(1, 1, 1); Calibrated: 22.12.2008
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 20.02.2009
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 168.7 V/m Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, -6.30 mm Reference Value = 109.0 V/m; Power Drift = -0.002 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
162.3 M4	168.3 M4	164.0 M4
Grid 4	Grid 5	Grid 6
86.8 M4	89.2 M4	86.0 M4
Grid 7	Grid 8	Grid 9
161.9 M4	168.7 M4	163.6 M4



0 dB = 168.7 V/m

Certificate No: CD835V3-1052_Apr09

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





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Certificate No: CD1880V3-1044 Apr09

Accreditation No.: SCS 108

CALIBRATION (CERTIFICAT	TE OF A TRANSPORT	
Object	CD1880V3 - S	N: 1044	
Calibration procedure(s)	QA CAL-20.v4 Calibration pro	cedure for dipoles in air	
Calibration date:	April 22, 2009		
Condition of the calibrated item	In Tolerance		The same of the same
Calibration Equipment used (M& Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	08-Oct-08 (No. 217-00898)	Oct-09
Power sensor HP 8481A	US37292783	08-Oct-08 (No. 217-00898)	Oct-09
Probe ER3DV6	SN: 2336	22-Dec-08 (No. ER3-2336_Dec08)	Dec-09
Probe H3DV6	SN: 6065 SN 781	22-Dec-08 (No. H3-6065Dec08) 20-Feb-09 (No. DAE4-781 Feb09)	Dec-09 Feb-10
DAE4	SIN /01	20-1 6D-03 (140. DALT-101_1 6D03)	Feb-10
DAE4 Secondary Standards Power meter R&S NRP Power sensor R&S NRP-Z91	ID # SN: 101748 SN: 100711	Check Date (in house) 23-Sep-08 (in house check Dec-08)	Scheduled Check In house check: Dec-10 In house check: Dec-10
Secondary Standards Power meter R&S NRP Power sensor R&S NRP-Z91	ID # SN: 101748	Check Date (in house)	Scheduled Check In house check: Dec-10
Secondary Standards Power meter R&S NRP Power sensor R&S NRP-Z91 Power sensor R&S NRP-Z91 Network Analyzer HP 8753E	ID# SN: 101748 SN: 100711 SN: 100712 US37390585	Check Date (in house) 23-Sep-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 18-Oct-01 (in house check Oct-08)	Scheduled Check In house check: Dec-10 In house check: Dec-10 In house check: Dec-10 In house check: Oct-09
Secondary Standards Power meter R&S NRP	ID# SN: 101748 SN: 100711 SN: 100712	Check Date (in house) 23-Sep-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08)	Scheduled Check In house check: Dec-10 In house check: Dec-10 In house check: Dec-10
Secondary Standards Power meter R&S NRP Power sensor R&S NRP-Z91 Power sensor R&S NRP-Z91 Network Analyzer HP 8753E RF generator E4433B	ID # SN: 101748 SN: 100711 SN: 100712 US37390585 MY 41310391	Check Date (in house) 23-Sep-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 18-Oct-01 (in house check Oct-08) 22-Nov-04 (in house check Oct-07)	Scheduled Check In house check: Dec-10 In house check: Dec-10 In house check: Dec-10 In house check: Oct-09
Secondary Standards Power meter R&S NRP Power sensor R&S NRP-Z91 Power sensor R&S NRP-Z91 Network Analyzer HP 8753E RF generator E4433B	ID # SN: 101748 SN: 100711 SN: 100712 US37390585 MY 41310391	Check Date (in house) 23-Sep-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 18-Oct-01 (in house check Oct-08) 22-Nov-04 (in house check Oct-07)	Scheduled Check In house check: Dec-10 In house check: Dec-10 In house check: Dec-10 In house check: Oct-09 In house check: Oct-09
Secondary Standards Power meter R&S NRP Power sensor R&S NRP-Z91 Power sensor R&S NRP-Z91 Network Analyzer HP 8753E	ID # SN: 101748 SN: 100711 SN: 100712 US37390585 MY 41310391	Check Date (in house) 23-Sep-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 25-Aug-08 (in house check Dec-08) 18-Oct-01 (in house check Oct-08) 22-Nov-04 (in house check Oct-07)	Scheduled Check In house check: Dec-10 In house check: Dec-10 In house check: Dec-10 In house check: Oct-09 In house check: Oct-09

Certificate No: CD1880V3-1044 Apr09

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3.3.2 DASY4 H-Field Result

Date/Time: 21.04.2009 15:31:24

Test Laboratory: SPEAG Lab 2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1044 Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: $\sigma=0$ mho/m, $\epsilon_r=1$; $\rho=1$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 SN6065; ; Calibrated: 22.12.2008
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 20.02.2009
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole =

10mm/Hearing Aid Compatibility Test (41x181x1):

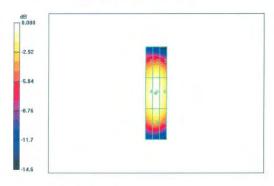
Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.463 A/m

Probe Modulation Factor = 1.00 Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.490 A/m; Power Drift = -0.003 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.404 M2	0.421 M2	0.399 M2
Grid 4	Grid 5	Grid 6
0.444 M2	0.463 M2	0.438 M2
Grid 7	Grid 8	Grid 9
0.406 M2	0.427 M2	0.402 M2



0 dB = 0.463 A/m

Certificate No: CD1880V3-1044 Apr09

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3.3.3 DASY4 E-Field Result

Date/Time: 22.04.2009 14:56:09

Test Laboratory: SPEAG Lab 2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1044 Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1 Medium parameters used: $\sigma=0$ mho/m, $\epsilon_r=1$; $\rho=1000$ kg/m³

Phantom section: RF Section Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

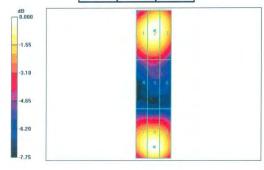
- Probe: ER3DV6 SN2336; ConvF(1, 1, 1); Calibrated: 22.12.2008
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 20.02.2009
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole =

10mm/Hearing Aid Compatibility Test (41x181x1):
Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 138.3 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm Reference Value = 155.4 V/m; Power Drift = 0.019 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
132.8 M2	137.9 M2	134.6 M2
Grid 4	Grid 5	Grid 6
89.3 M3	91.9 M3	88.1 M3
Grid 7	Grid 8	Grid 9
131.5 M2	138.3 M2	133.9 M2



0 dB = 138.3 V/m

Certificate No: CD1880V3-1044_Apr09

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End of 1st part of report

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