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

<For RF-Emission measurement>

Applicant Name	Motorola, Inc.
Address of Applicant	One Motorola Plaza, MD: B-13 Holtsville, NY 11742-1300
EUT Type	Mobile Computer
Model Number	MC9596
Date of receive	2009.03.24
Date of Test(s)	2009.03.28
Date of Issue	2009.05.07

Standards:

ANSI C63.19-2007

FCC RULE PART(S): 47 CFR PART 20.19(B) **HAC RATE CATEGORY:** M4 (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.

Kicky Mrang Tested by:

Approved by:

Ricky Huang

Robert Chang

Asst. Supervisor

Date: 2009/03/30

Tech. Manager

Date: 2009/05/07

arobert Chang

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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 aid.

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

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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	Motorola, Inc.
Applicant Address	One Motorola Plaza, MD: B-13 Holtsville, NY 11742-1300
Contact Person	Alan Mears
TEL	631-738-5941
Fax	631-627-7179
E-mail	Alan.Mears@motorola.com

4. Description of EUT

EUT Name	Mobile Computer		
FCC ID	UZ7MC9596		
Model Name	MC9596		
Brand Name	Motorola		
Mode of Operation	GSM /GPRS/EDGE/WCDMA band		

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Definition	Production unit			
Modulation Mode	GSM/GMSK/8PSK/QPSK			
Duty Cycle	GSM		WCDMA	
	1/8		1	
Maximum RF Conducted	GSM 850	GSM1900	WCDMA B2	WCDMA B5
Power (Average)	32.37dbm	30.1dbm	23.58dbm	23dbm
TV Fraguency Pango	GSM 850	GSM1900	WCDMA B2	WCDMA B5
TX Frequency Range (MHz)	824.2-	1850.2-	1852.4-	826.4-
(141112)	848.8	1909.8	1907.6	846.6
Channel Number	GSM 850	GSM1900	WCDMA B2	WCDMA B5
(ARFCN)	128-251	512-810	9262-9538	4132-4233
IMEI Code	004401680052541			

5. Test Environment

_		
	Ambient Temperature	22.2° C
	Relative Humidity	<60 %

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6. System Specifications of DASY4

6.1 Measurement system Diagram for SPEAG Robotic

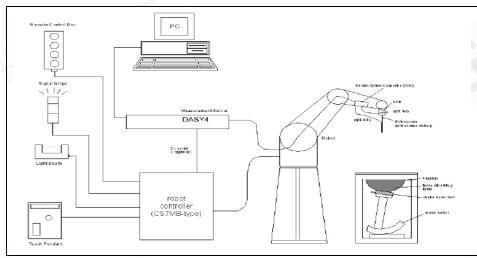


Fig 1. The SPEAG Robotic Diagram

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).
- 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.

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6.2 E and H Field Probe

0.2 L and H F		
Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material	Ma
Calibration	In air from 100 MHz to 3.0 GHz (absolute accuracy ±6.0%, k=2)	14 15
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 axis)	
Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 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
Application	General near-field measurements up to 6 GHz Field component measurements Fast automatic scanning in phantoms	acs
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)	a to
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 m	m

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-				
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

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	Test Arch

6.4 Phone Holder

Supports accurate and reliable positioning of any phone Effect on near field <+/- 0.5 dB	
	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.

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- 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 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.

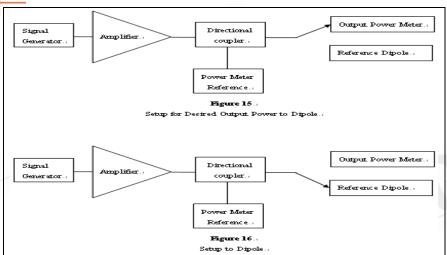
The length of the dipole was scanned with both E-field and H-field probes and the maximum values for each were recorded.

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SGS



For F-Field Scan

TOT ETTERA SCATT					
Mode	Frequency	Input	Measured	Target	Measured
Mode	(MHz)	Power(dBm)	Value(V/m)	Value(V/m)	Date
CW	835	20	170.5	165.2	2009/03/28
Mode	Frequency	Input	Measured	Target	Measured
Mode	(MHz)	Power(dBm)	Value(V/m)	Value(V/m)	Date
CW	1880	20	146.4	141.4	2009/03/28

For H-Field Scan

Mode	Frequency	Input	Measured	Target	Measured
riode	rrequeries	Power	Value(A/m)	Value(A/m)	Date
CW	835	20	0.452	0.457	2009/03/28
Mode	Eroguopov	Input	Measured	Target	Measured
Mode	Frequency	Power	Value(A/m)	Value(A/m)	Date
CW	1880	20	0.467	0.464	2009/03/28

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

1. Install the field probe in the DASY4 window setup.

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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:

- 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 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.)

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- 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.
- 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,

AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
0	631 - 1122	1.91 - 3.39
-5	473.2 - 841.4	1.43 - 2.54
0	354.8 - 631	1.07 - 1.91
-5	266.1 - 473.2	0.8 - 1.43
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	<199.5	<0.6
	140.6	<0.45
	AWF (dB) 0 -5 0 -5 0 -5 AWF (dB) 0 -5 0 -5 0 -5 0 -5 0 -5 0	AWF (dB) Limits for E-Field Emissions (V/m) > 960MHz 0

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11. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration
Schmid & Partner	E-Field and H-Field	ER3DV6	2306	Apr.17.2008
Engineering AG	Probe	H3DV6	6142	Apr.21.2008
Schmid & Partner Engineering AG	835&1880 MHz System Validation Dipole In Air	CD835V3 CD1880V3	1052 1044	Apr.10.2008 Apr.10.2008
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.21.2008
Agilent	Power Sensor	8481H	MY41091361	May.20.2008
R&S	Radio Communication Test	CMU200	113505	Sep.03.2008
Schmid & Partner Engineering AG	Test Arch SD HAC	P01	1047	N/A
Agilent	Spectrum Analyzer	E4405B	MY45113250	Jun.03.2008

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12. Summary of Results

E-Field

E-Field Emission	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
	128	2.84	32.13	-0.044	101.2	M4	369
GSM850	190	2.84	32.21	0.016	109.1	M4	369
GSI 1030	251	2.84	32.37	-0.024	105.7	M4	369
E-Field Emission	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
	512	2.89	30.1	-0.181	35.3	M4	124
GSM1900	661	2.89	29.85	0.189	40.3	M4	124
	810	2.89	29.41	-0.089	31.4	M4	123
E-Field Emission	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
	9262	1	23.36	0.103	17.6	M4	124
WCDMA B2	9400	1	23.58	-0.087	20.2	M4	124
	9538	1	23.27	0.024	16.5	M4	123
E-Field Emission	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
1 FR	4132	1	22.68	-0.005	38.3	M4	369
WCDMA B5	4183	1	22.74	-0.048	37.3	M4	369
	4233	1	23	-0.057	36.4	M4	369

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H-Filed

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H-Field Emission	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
	128	2.95	32.13	-0.009	0.293	M4	478
GSM850	190	2.95	32.21	0.014	0.311	M4	478
	251	2.95	32.37	0.060	0.325	M4	478
H-Field Emission	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
	512	2.69	30.1	0.034	0.124	M4	123
GSM1900	661	2.69	29.85	-0.003	0.101	M4	123
	810	2.69	29.41	0.008	0.090	M4	124
H-Field Emission	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
I E PO	9262	1	23.36	-0.011	0.068	M4	123
WCDMA B2	9400	1	23.58	0.051	0.056	M4	123
	9538	1	23.27	-0.074	0.050	M4	123
H-Field Emission	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
	4132	1	22.68	0.012	0.105	M4	478
WCDMA B5	4183	1	22.74	0.004	0.101	M4	478
	4233	1	23	-0.023	0.102	M4	478

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13. Measurement Data

Date/Time: 2009/3/28 01:48:59

HAC E GSM850 CH128

DUT: VT208;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Dipole Section

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2008/4/17

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 = 101.2 V/m

Probe Modulation Factor = 2.84

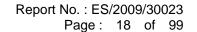
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 31.5 V/m; Power Drift = -0.044 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
48.2 M4	92.7 M4	111.7 M4
Grid 4	Grid 5	Grid 6
58.0 M4	101.2 M4	119.4 M4
Grid 7	Grid 8	Grid 9
62.3 M4	100.6 M4	118.1 M4

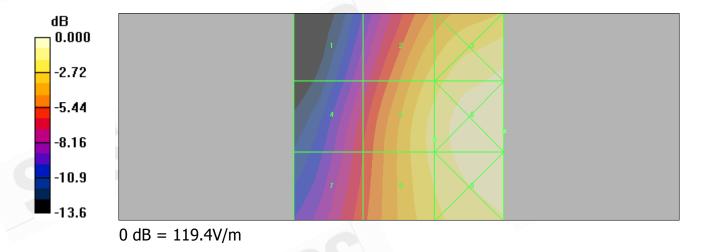
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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
	-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: 2009/3/28 02:17:56

HAC_E_GSM850_CH190

DUT: VT208;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 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: 2008/4/17

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 = 109.1 V/m

Probe Modulation Factor = 2.84

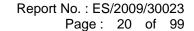
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 32.9 V/m; Power Drift = 0.016 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
44.2 M4	97.0 M4	123.0 M4
Grid 4	Grid 5	Grid 6
56.6 M4	109.1 M4	134.1 M4
Grid 7	Grid 8	Grid 9
62.3 M4	108.6 M4	132.9 M4

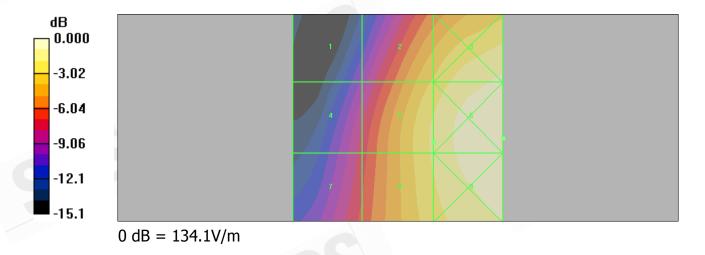
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 02:33:17

HAC_E_GSM850_CH251

DUT: VT208;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 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: 2008/4/17

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 = 105.7 V/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 25.9 V/m; Power Drift = -0.024 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

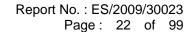
Peak E-field in V/m

Grid 1	Grid 2	Grid 3
50.6 M4	92.6 M4	126.5 M4
Grid 4	Grid 5	Grid 6
42.3 M4	105.7 M4	139.5 M4
Grid 7	Grid 8	Grid 9
42.4 M4	104.0 M4	138.5 M4

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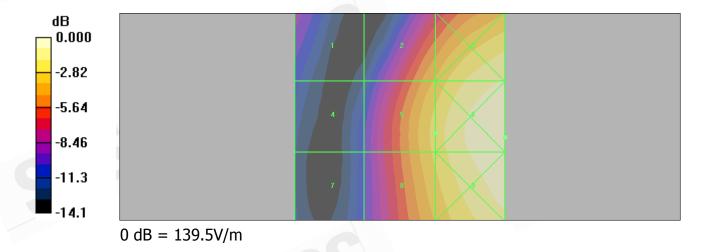
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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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HAC_H_GSM850_CH128

DUT: VT208;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3 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: 2008/4/21

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 = 0.293 A/m

Probe Modulation Factor = 2.95

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.103 A/m; Power Drift = -0.009 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

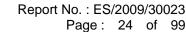
Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.287 M4	0.279 M4	0.259 M4
Grid 4	Grid 5	Grid 6
0.303 M4	0.293 M4	0.260 M4
Grid 7	Grid 8	Grid 9
0.324 M4	0.301 M4	0.259 M4

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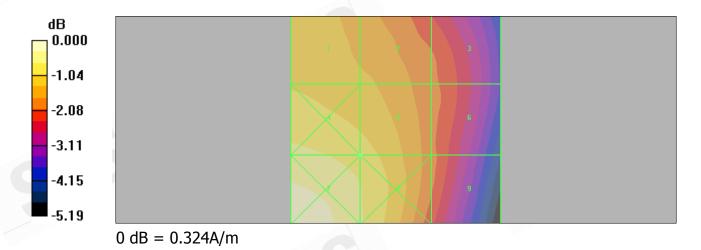
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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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HAC_H_GSM850_CH190

DUT: VT208;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 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: 2008/4/21

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 = 0.311 A/m

Probe Modulation Factor = 2.95

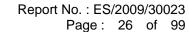
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.114 A/m; Power Drift = 0.014 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.298 M4	0.298 M4	0.288 M4
Grid 4	Grid 5	Grid 6
0.313 M4	0.311 M4	0.289 M4
Grid 7	Grid 8	Grid 9
0.336 M4	0.320 M4	0.284 M4

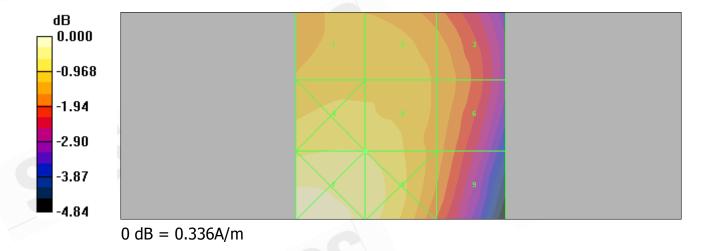
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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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HAC_H_GSM850_CH251

DUT: VT208;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 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: 2008/4/21

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 = 0.325 A/m

Probe Modulation Factor = 2.95

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.125 A/m; Power Drift = 0.060 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

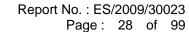
Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.309 M4	0.323 M4	0.322 M4
Grid 4	Grid 5	Grid 6
0.322 M4	0.325 M4	0.322 M4
Grid 7	Grid 8	Grid 9
0.326 M4	0.327 M4	0.313 M4

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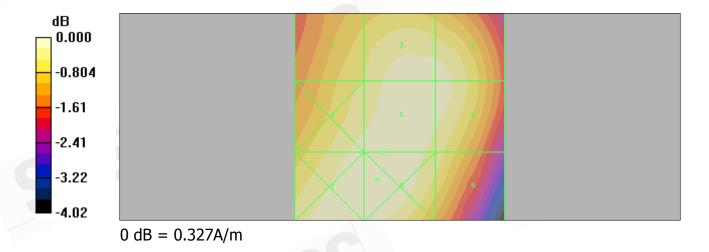
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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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HAC_E_GSM1900_CH512

DUT: VT208;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 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: 2008/4/17

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 = 35.3 V/m

Probe Modulation Factor = 2.89

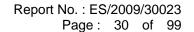
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 3.98 V/m; Power Drift = -0.181 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
57.2 M3	53.5 M3	35.0 M4
Grid 4	Grid 5	Grid 6
42.5 M4	34.8 M4	35.1 M4
Grid 7	Grid 8	Grid 9
33.4 M4	21.4 M4	35.3 M4

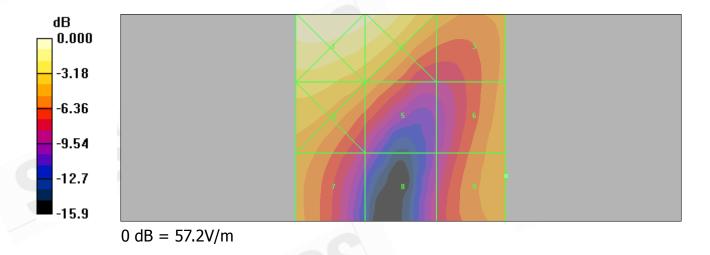
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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 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



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HAC_E_GSM1900_CH661

DUT: VT208;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 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: 2008/4/17

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 = 40.3 V/m

Probe Modulation Factor = 2.89

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 6.29 V/m; Power Drift = 0.189 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

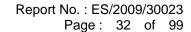
Peak E-field in V/m

Grid 1	Grid 2	Grid 3
52.5 M3	52.0 M3	35.2 M4
Grid 4	Grid 5	Grid 6
41.4 M4	40.3 M4	26.5 M4
Grid 7	Grid 8	Grid 9
36.5 M4	30.6 M4	29.8 M4

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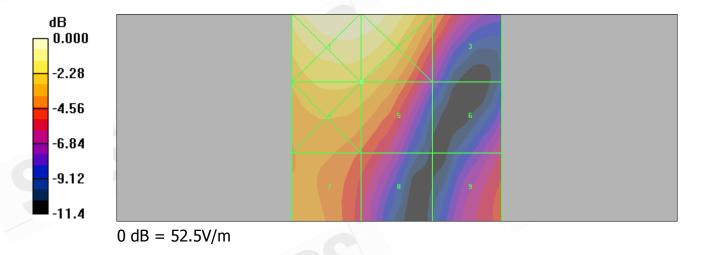
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AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF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



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HAC_E_GSM1900_CH810

DUT: VT208;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 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: 2008/4/17

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 = 31.4 V/m

Probe Modulation Factor = 2.89

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 10.2 V/m; Power Drift = -0.089 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

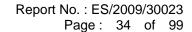
Peak E-field in V/m

Grid 1	Grid 2	Grid 3
37.7 M4	38.4 M4	35.4 M4
Grid 4	Grid 5	Grid 6
29.6 M4	31.4 M4	29.0 M4
Grid 7	Grid 8	Grid 9
23.5 M4	25.7 M4	25.6 M4

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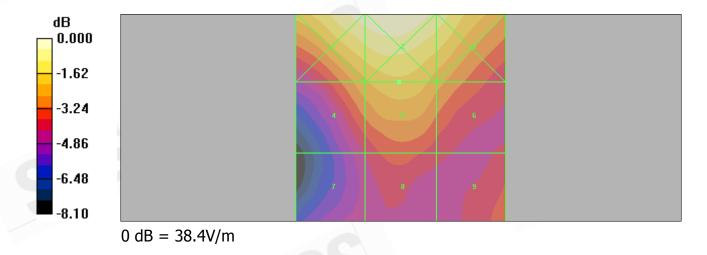
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 14:05:40

HAC_H_GSM1900_CH512

DUT: VT208;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 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: 2008/4/21

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 = 0.124 A/m

Probe Modulation Factor = 2.69

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.050 A/m; Power Drift = 0.034 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

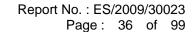
Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.129 M4	0.125 M4	0.127 M4
Grid 4	Grid 5	Grid 6
0.103 M4	0.123 M4	0.124 M4
Grid 7	Grid 8	Grid 9
0.096 M4	0.119 M4	0.119 M4

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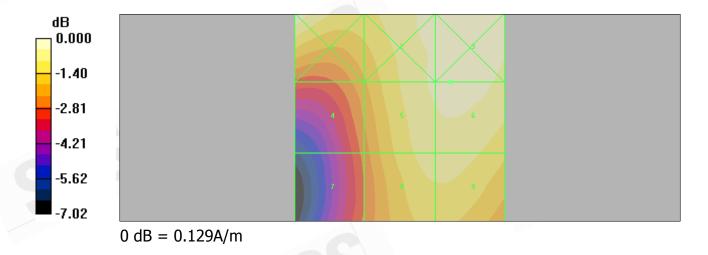
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
	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
	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: 2009/3/28 14:23:46

HAC_H_GSM1900_CH661

DUT: VT208;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 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: 2008/4/21

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 = 0.101 A/m

Probe Modulation Factor = 2.69

Device Reference Point: 0.000, 0.000, 354.7 mm

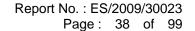
Reference Value = 0.037 A/m; Power Drift = -0.003 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.134 M4	0.094 M4	0.102 M4
Grid 4	Grid 5	Grid 6
0.098 M4	0.094 M4	0.101 M4
Grid 7	Grid 8	Grid 9
0.071 M4	0.095 M4	0.099 M4

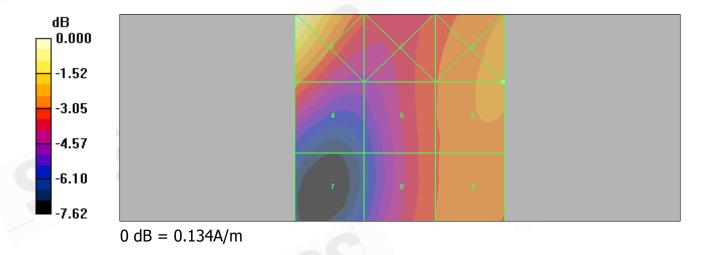
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 14:40:44

HAC_H_GSM1900_CH810

DUT: VT208;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 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: 2008/4/21

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 = 0.090 A/m

Probe Modulation Factor = 2.69

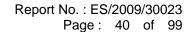
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.033 A/m; Power Drift = 0.008 dB Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.110 M4	0.093 M4	0.089 M4
Grid 4	Grid 5	Grid 6
0.090 M4	0.088 M4	0.090 M4
Grid 7	Grid 8	Grid 9
0.075 M4	0.077 M4	0.084 M4

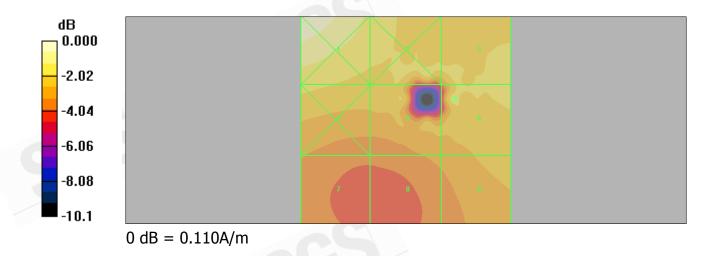
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 07:21:31

HAC_E_WCDMA B2_CH9262

DUT: VT208;

Communication System: WCDMA BAND2; Frequency: 1852.4 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: 2008/4/17

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 = 17.6 V/m

Probe Modulation Factor = 1.00

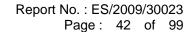
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 5.51 V/m; Power Drift = 0.103 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
29.3 M4	26.5 M4	16.2 M4
Grid 4	Grid 5	Grid 6
22.1 M4	17.6 M4	16.0 M4
Grid 7	Grid 8	Grid 9
17 2 M4	9.64 M4	16.0 M4

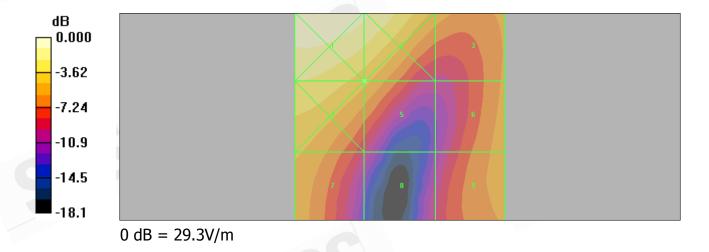
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 07:39:30

HAC_E_WCDMA B2_CH9400

DUT: VT208;

Communication System: WCDMA BAND2; 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: 2008/4/17

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 = 20.2 V/m

Probe Modulation Factor = 1.00

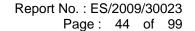
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 9.88 V/m; Power Drift = -0.087 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
26.1 M4	25.7 M4	17.1 M4
Grid 4	Grid 5	Grid 6
21.1 M4	20.2 M4	12.5 M4
Grid 7	Grid 8	Grid 9
18.1 M4	15.5 M4	14.1 M4

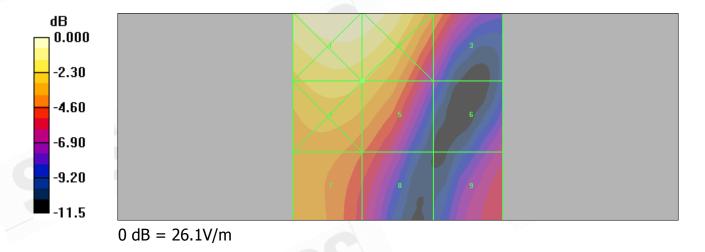
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AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF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





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Date/Time: 2009/3/28 07:58:25

HAC_E_WCDMA B2_CH9538

DUT: VT208;

Communication System: WCDMA BAND2; Frequency: 1907.6 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: 2008/4/17

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 = 16.5 V/m

Probe Modulation Factor = 1.00

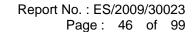
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 14.7 V/m; Power Drift = 0.024 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
19.6 M4	19.8 M4	18.0 M4
Grid 4	Grid 5	Grid 6
15.8 M4	16.5 M4	15.2 M4
Grid 7	Grid 8	Grid 9
13.0 M4	13.7 M4	12.9 M4

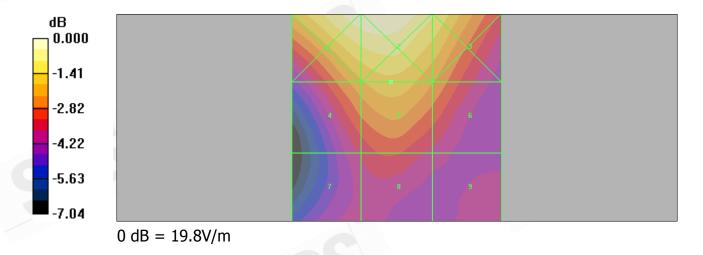
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AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF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





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Date/Time: 2009/3/28 15:06:46

HAC_H_WCDMA B2_CH9262

DUT: VT208;

Communication System: WCDMA BAND2; Frequency: 1852.4 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: 2008/4/21

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 = 0.068 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.074 A/m; Power Drift = -0.011 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

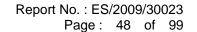
Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.069 M4	0.067 M4	0.068 M4
Grid 4	Grid 5	Grid 6
0.055 M4	0.067 M4	0.068 M4
Grid 7	Grid 8	Grid 9
0.052 M4	0.065 M4	0.066 M4

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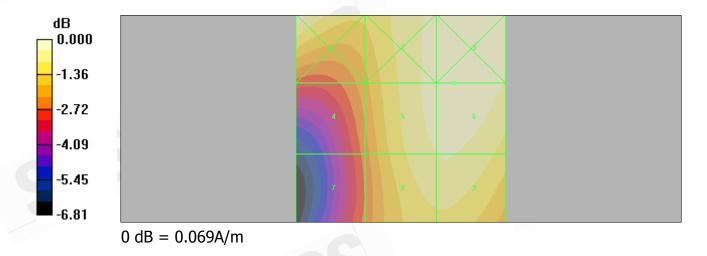
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 15:23:45

HAC_H_WCDMA B2_CH9400

DUT: VT208;

Communication System: WCDMA BAND2; 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: 2008/4/21

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 = 0.056 A/m

Probe Modulation Factor = 1.00

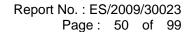
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.055 A/m; Power Drift = 0.051 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.072 M4	0.052 M4	0.056 M4
Grid 4	Grid 5	Grid 6
0.054 M4	0.052 M4	0.056 M4
Grid 7	Grid 8	Grid 9
0.039 M4	0.052 M4	0.054 M4

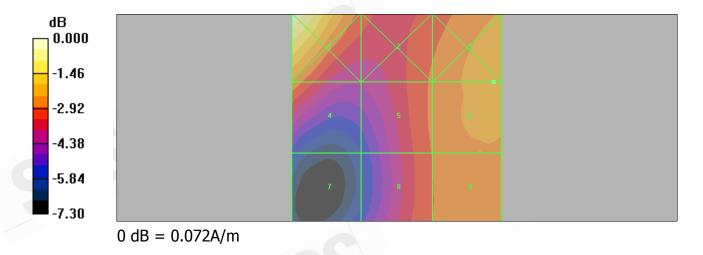
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AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF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





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Date/Time: 2009/3/28 15:43:50

HAC_H_WCDMA B2_CH9538

DUT: VT208;

Communication System: WCDMA BAND2; Frequency: 1907.6 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: 2008/4/21

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 = 0.050 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

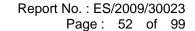
Reference Value = 0.049 A/m; Power Drift = -0.074 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.061 M4	0.051 M4	0.050 M4
Grid 4	Grid 5	Grid 6
0.049 M4	0.048 M4	0.050 M4
Grid 7	Grid 8	Grid 9
0.042 M4	0.043 M4	0.047 M4

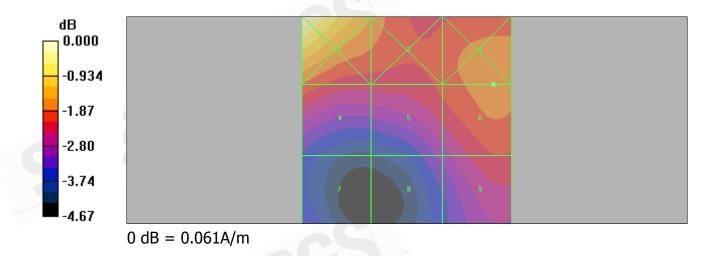
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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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SGS Taiwan Ltd. No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號



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Date/Time: 2009/3/28 02:59:04

HAC_E_WCDMA B5_CH4132

DUT: VT208;

Communication System: WCDMA BAND5; Frequency: 826.4 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: 2008/4/17

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 = 38.3 V/m

Probe Modulation Factor = 1.00

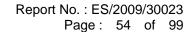
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 32.6 V/m; Power Drift = -0.005 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
17.8 M4	35.1 M4	41.8 M4
Grid 4	Grid 5	Grid 6
21.5 M4	38.3 M4	44.8 M4
Grid 7	Grid 8	Grid 9
23.0 M4	37.9 M4	44.3 M4

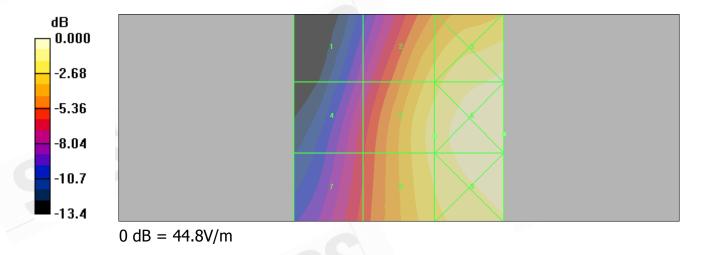
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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 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: 2009/3/28 03:19:49

HAC_E_WCDMA B5_CH4183

DUT: VT208;

Communication System: WCDMA BAND5; Frequency: 836.6 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: 2008/4/17

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 = 37.3 V/m

Probe Modulation Factor = 1.00

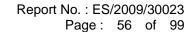
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 31.6 V/m; Power Drift = -0.048 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
15.5 M4	33.4 M4	42.0 M4
Grid 4	Grid 5	Grid 6
19.7 M4	37.3 M4	45.6 M4
Grid 7	Grid 8	Grid 9
21.3 M4	37.1 M4	45.3 M4

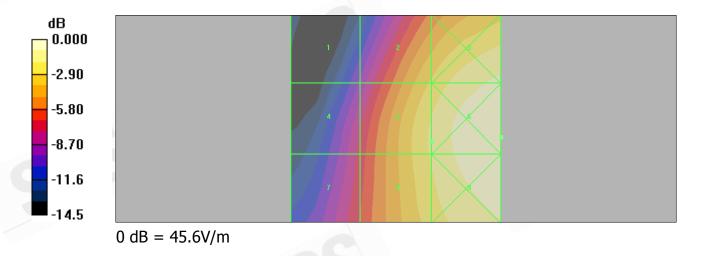
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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 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: 2009/3/28 03:34:50

HAC_E_WCDMA B5_CH4233

DUT: VT208;

Communication System: WCDMA BAND5; Frequency: 846.6 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: 2008/4/17

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 = 36.4 V/m

Probe Modulation Factor = 1.00

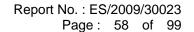
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 26.0 V/m; Power Drift = -0.057 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
15.5 M4	32.3 M4	42.9 M4
Grid 4	Grid 5	Grid 6
15.2 M4	36.4 M4	46.7 M4
Grid 7	Grid 8	Grid 9
15.5 M4	35.9 M4	46.3 M4

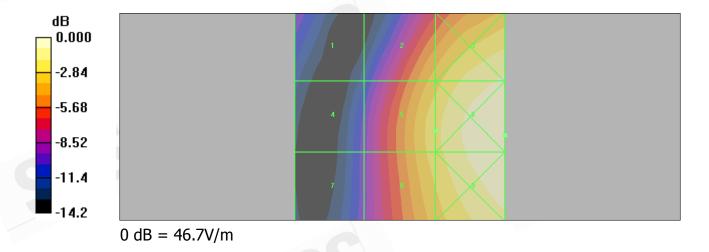
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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 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: 2009/3/28 10:53:13

HAC_H_WCDMA B5_CH4132

DUT: VT208:

Communication System: WCDMA BAND5; Frequency: 826.4 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: 2008/4/21

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 = 0.105 A/m

Probe Modulation Factor = 1.00

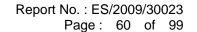
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.109 A/m; Power Drift = 0.012 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.103 M4	0.100 M4	0.094 M4
Grid 4	Grid 5	Grid 6
0.108 M4	0.105 M4	0.094 M4
Grid 7	Grid 8	Grid 9
0.116 M4	0.108 M4	0.094 M4

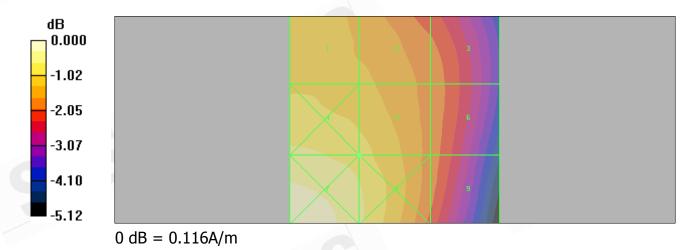
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 11:18:10

HAC_H_WCDMA B5_CH4183

DUT: VT208:

Communication System: WCDMA BAND5; Frequency: 836.6 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: 2008/4/21

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 = 0.101 A/m

Probe Modulation Factor = 1.00

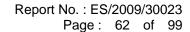
Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 0.110 A/m; Power Drift = 0.004 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.097 M4	0.098 M4	0.095 M4
Grid 4	Grid 5	Grid 6
0.102 M4	0.101 M4	0.095 M4
Grid 7	Grid 8	Grid 9
0.111 M4	0.104 M4	0.093 M4

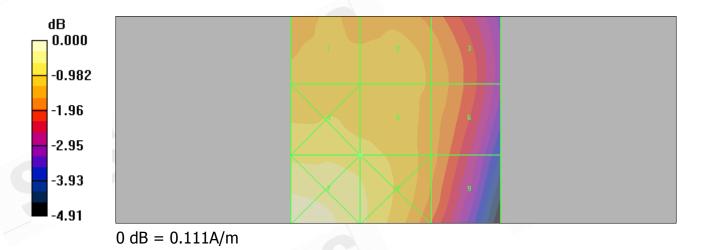
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 11:34:14

HAC_H_WCDMA B5_CH4233

DUT: VT208:

Communication System: WCDMA BAND5; Frequency: 846.6 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: 2008/4/21

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 = 0.102 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

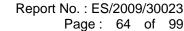
Reference Value = 0.117 A/m; Power Drift = -0.023 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.099 M4	0.102 M4	0.102 M4
Grid 4	Grid 5	Grid 6
0.102 M4	0.102 M4	0.102 M4
Grid 7	Grid 8	Grid 9
0.104 M4	0.103 M4	0.099 M4

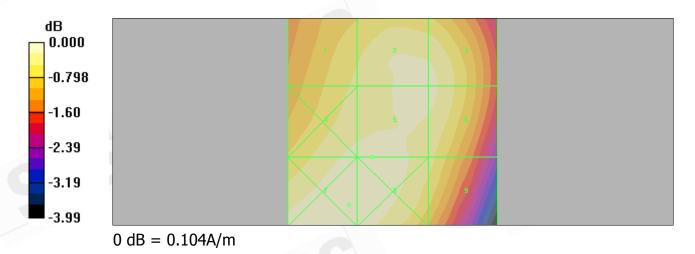
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AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF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





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14. SYSTEM Verification

Date/Time: 2009/3/28 00:09:47

HAC_E_Dipole_835MHz

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

Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2008/4/17

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 71; 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 = 170.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

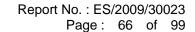
Reference Value = 104.0 V/m; Power Drift = -0.023 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
166.5 M4	170.5 M4	165.8 M4
Grid 4	Grid 5	Grid 6
90.8 M4	92.3 M4	89.5 M4
Grid 7	Grid 8	Grid 9
166.9 M4	173.2 M4	168.4 M4

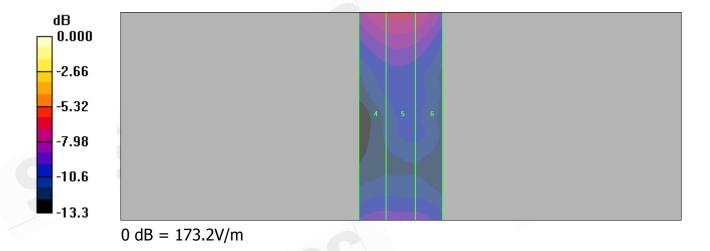
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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





Report No.: ES/2009/30023 Page: 67 of 99

Date/Time: 2009/3/28 08:39:57

HAC_H_Dipole_835MHz

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: 2008/4/21

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 71; 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 = 0.452 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.478 A/m; Power Drift = -0.012 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.360 M4	0.397 M4	0.386 M4
Grid 4	Grid 5	Grid 6
0.413 M4	0.452 M4	0.441 M4
Grid 7	Grid 8	Grid 9
0.372 M4	0.407 M4	0.399 M4

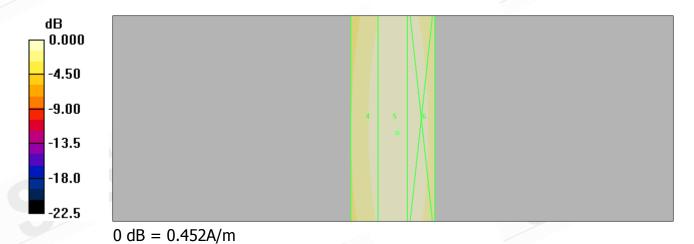
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 04:06:30

HAC_E_Dipole_1880MHz

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: 2008/4/17

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 71; 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 = 146.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 167.4 V/m; Power Drift = -0.025 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

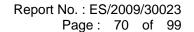
Peak E-field in V/m

Grid 1	Grid 2	Grid 3
146.2 M2	147.4 M2	141.9 M2
Grid 4	Grid 5	Grid 6
105.2 M3	106.3 M3	100.1 M3
Grid 7	Grid 8	Grid 9
139.3 M2	146.4 M2	145.1 M2

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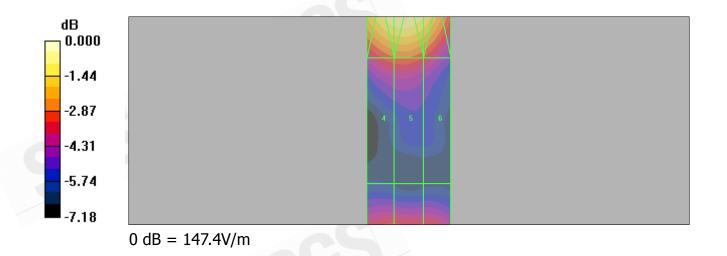
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Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 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: 2009/3/28 12:28:01

HAC_H_Dipole_1880MHz

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: 2008/4/21

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 71; 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 = 0.467 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.492 A/m; Power Drift = -0.010 dB

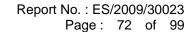
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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
0.431 M2	0.467 M2	0.458 M2
Grid 7	Grid 8	Grid 9
0.391 M2	0.431 M2	0.424 M2

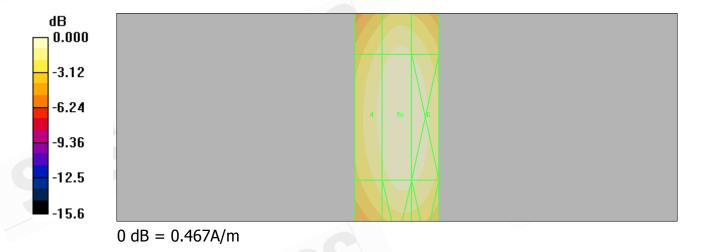
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AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF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





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15. DAE & Probe Calibration certificate

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





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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 certificate

Accreditation No.: SCS 108

SGS (Auden) Certificate No: DAE4-547_Jan09 **CALIBRATION CERTIFICATE** DAE4 - SD 000 D04 BJ - SN: 547 Object QA CAL-06.v12 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) January 19, 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) ID# Cal Date (Certificate No.) Scheduled Calibration Fluke Process Calibrator Type 702 SN: 6295803 Sep-09 30-Sep-08 (No: 7673) Keithley Multimeter Type 2001 30-Sep-08 (No: 7670) Sep-09 Scheduled Check Check Date (in house) Secondary Standards ID# SE UMS 006 AB 1004 06-Jun-08 (in house check) Function Daniel Hess Calibrated by: Technician R&D Director Approved by: Fin Bomholt This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: DAE4-547 Jan09

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cute No. FR3-2306 Apr08

	CERTIFICAT		
Object	ER3DV6 - SN:2306		
Calibration procedure(x)	QA CAL-02.v5 Calibration processaluations in a	edure for E-field probes optimized ir	for close near field
Calibration date:	April 17, 2008		OCH CISCOLINA
Condition of the calibrated item	In Tolerance		
All calibrations have been condu	cled in the closed laborate	ory facility: environment temperature (22 ± 3)*C	and humidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		
	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards	40000	Cal Date (Certificate No.) 1-Apr-06 (No. 217-00788)	Scheduled Calibration Apr 08
Primary Standards Power meter E4419B	ID #		4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Primary Standards Power meter E4419B Power sensor E4412A	ID # GB41293874	1-Apr-06 (No. 217-00788)	Apr-08 Apr-08 Apr-09
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 1-Apr-08 (No. 217-00788) 8-Aug-07 (No. 217-00719)	Арг 08 Арг 08 Арг 09 Анд-08
Primary Standards Power matter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00719) 31-Mar-08 (No. 217-00787)	Apr-08 Apr-08 Apr-09 Aug-08 Apr-06
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator	(D # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 3-May-07 (No. 217-00787) 8-Aug-07 (No. 217-00787)	Apr-08 Apr-08 Apr-08 Aug-08 Apr-08 Aug-08
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5058 (20b) SN: S5129 (30b) SN: 3013	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00719) 31-Mar-08 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E83-3013_Jan05)	Apr 08 Apr 08 Apr 00 Aug 08 Apr 00 Aug 08 Jun 109
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	(D # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 3-May-07 (No. 217-00787) 8-Aug-07 (No. 217-00787)	Apr-08 Apr-08 Apr-08 Aug-08 Apr-08 Aug-08
Primary Standards Power mater E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5058 (20b) SN: S5129 (30b) SN: 3013	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00719) 31-Mar-08 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E83-3013_Jan05)	Apr 08 Apr 08 Apr 00 Aug 08 Apr 00 Aug 08 Jun 109
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards	ID # GB41293874 MY41495277 MY41495267 SN: S5054 (3c) SN: S5095 (20b) SN: S5129 (30b) SN: 3013 SN: 654	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 8-Aug-07 (No. 217-00719) 31-Mar-08 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. ES3-3013_Jan05) 20-Apr-07 (No. DAE4-654_Apr07)	Apr-08 Apr-09 Apr-00 Aug-08 Apr-00 Aug-08 Jan-00 Apr-00
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HF 8548C	ID 6 GB41293874 MY41495277 MY41498087 SN: 85054 (3c) SN: 85096 (20b) SN: 85129 (30b) SN: 3013 SN: 654	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00797) 8-Aug-07 (No. 217-00797) 8-Aug-07 (No. 217-00797) 2-Jan-08 (No. 283-3013_Jan05) 20-Apr-07 (No. DAE4-654_Apr07) Check Date (in house)	Apr 08 Apr 09 Apr 09 Aug-08 Apr 09 Aug-08 Jan-09 Apr 00 Scheduled Check
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HF 8548C	ID # GB41293874 MY41495277 MY41495067 SN: 85054 (3c) SN: 85129 (30b) SN: 3013 SN: 654	1-Apr-06 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 8-Aug-07 (No. 217-00797) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. 233-3013_Jan08) 20-Apr-07 (No. DAE4-654_Apr07) Check Date (In house) 4-Aug-99 (in house check Oct-07)	Apr-08 Apr-09 Apr-09 Apr-09 Apr-08 Apr-08 Apr-08 Scheduled Check In house check: Oct-09
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator NP B548C Neberok Analyzer HP 8753E Calibrated by:	ID 6 GB41293874 MY41495277 MY41495277 MY41498067 SN: 85054 (3c) SN: 85086 (20b) SN: 85129 (30b) SN: 3013 SN: 654 ID 6 US3842U01700 US37390585	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00780) 2-Jan-08 (No. E83-3013_Jan08) 20-Apr-07 (No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (in house theck Oct-07) 18-Oct-01 (in house check Oct-07)	Apr 08 Apr 09 Apr 09 Apr 09 Aug 08 Apr 09 Aug 08 Jan 09 Apr 00 Scheduled Check In house check: Oct-09 In house check: Oct-08
Primary Standards Power make: E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753B Calibrated by:	ID # GB41293874 MY41495277 MY41495087 SN: 85086 (20t) SN: 85129 (30b) SN: 95129 (30b) SN: 9513 SN: 654 ID # US3842U01700 US37330585 Name Katja Pokovic	1-Apr-06 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 8-Aug-07 (No. 217-00789) 31-Mar-08 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E83-3013_Jan05) 20-Apr-07 (No. DAE4-654_Apr07) Check Date (in house) 4-Aug-99 (in house check Cet-07) 18-Oct-01 (in house check Cet-07) Function Technical Manager	Apr 08 Apr 09 Apr 09 Apr 09 Aug 08 Apr 09 Aug 08 Jan 09 Apr 00 Scheduled Check In house check: Oct-09 In house check: Oct-08
Primary Standards Power make: E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator NF 8548C Network Analyzer HP 8753E	ID # GB41293874 MY41495277 MY41495067 SN: 95096 (20t) SN: 95129 (30b) SN: 95129 (30b) SN: 054 ID # US3842U01700 US37390585	1-Apr-06 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E33-3013_Jan05) 20-Apr-07 (No. DAE4-654_Apr07) Check Date (In house) 4-Aug-99 (in house check Oct-07) 18-Oct-01 (in house check Oct-07)	Apr 08 Apr 09 Apr 09 Apr 09 Aug 08 Apr 09 Aug 08 Jan 09 Apr 00 Scheduled Check In house check: Oct-09 In house check: Oct-08

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Glossary:

NORMx,y,z DCP Polarization φ

sensitivity in free space diode compression point φ rotation around probe axis

Polarization 9

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

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).

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ER3DV6 SN:2306

April 17, 2008



Probe ER3DV6

SN:2306

Manufactured:

December 17, 2002

Last calibrated: Recalibrated:

April 20, 2007 April 17, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ER3-2306_Apr06

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ER3DV6 SN:2306

April 17, 2008

DASY - Parameters of Probe: ER3DV6 SN:2306

Sensitivity in Free Space [µV/(V/m)2]

Diode Compression^A

NormX 1.08 ± 10.1 % (k=2) NormY 1.11 ± 10.1 % (k=2) NormZ 1.26 ± 10.1 % (k=2) DCP X 96 mV DCP Y 96 mV DCP Z 100 mV

Frequency Correction

0.0 Y 0.0 Z 0.0

Sensor Offset (Probe Tip to Sensor Center)

2.5 mm 2.5 mm Z 2.5 mm Connector Angle -224 °

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%.

rical linearization parameter: uncertainty not required

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SGS Taiwan Ltd. No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號



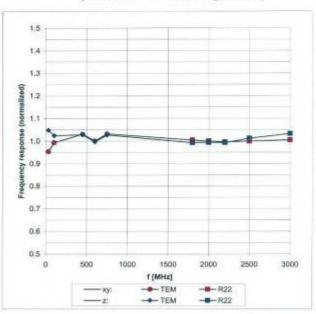
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ER3DV6 SN:2306

April 17, 2008

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_Apr08

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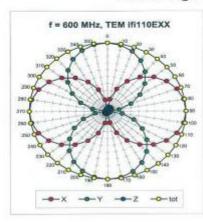


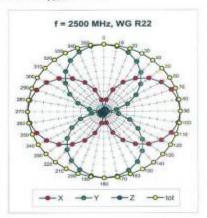
Page: 79 of 99

ER3DV6 SN:2306

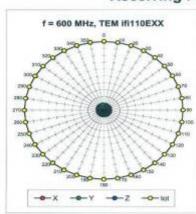
April 17, 2008

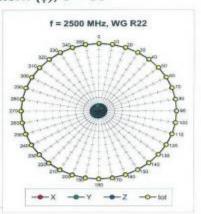
Receiving Pattern (6), 9 = 0°





Receiving Pattern (\$\phi\$), 9 = 90°





Certificate No: ER3-2306_Apr08

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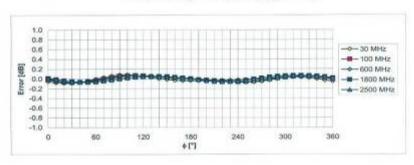


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ER3DV6 SN:2306

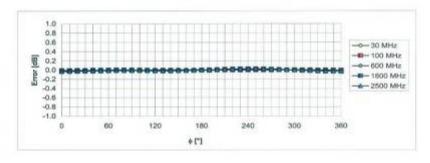
April 17, 2008

Receiving Pattern (φ), 9 = 0°



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

Receiving Pattern (6), 9 = 90°



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

Certificate No: ER3-2306_Apr08

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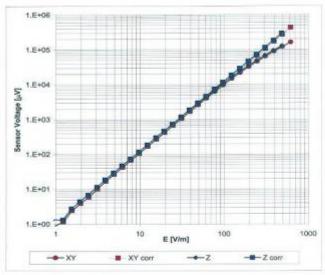
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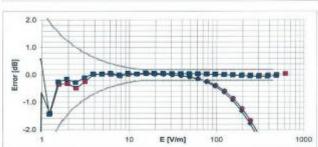
ER3DV6 SN:2306

April 17, 2008

Dynamic Range f(E-field)

(Waveguide R22, f = 1800 MHz)





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

Certificate No: ER3-2306 Apr08

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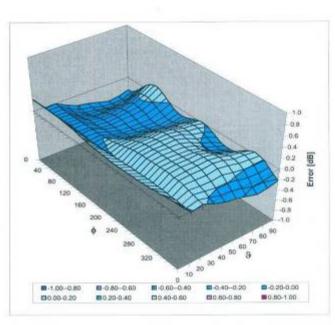


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ER3DV6 SN:2306

April 17, 2008

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 aughausstrasse 43, 8004 Zurich, Switzerland





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S

Certificate No: H3-6142 Apr08 SGS (Auden) **CALIBRATION CERTIFICATE** H3DV6 - SN:6142 Object QA CAL-03.v5 Calibration procedure(s) Calibration procedure for H-field probes optimized for close near field evaluations in air April 21, 2008 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 $(22 \pm 3)^{\circ}C$ and humidity < 70%Calibration Equipment used (M&TE critical for calibration) Cai Date (Certificate No.) Scheduled Calibration Power meter E4419B GB41293874 1-Apr-08 (No. 217-00768) 1-Apr-08 (No. 217-00788) Apr-09 MY41495277 Power sensor E4412A Apr-09 1-Apr-08 (No. 217-00788) 8-Aug-07 (No. 217-00719) Power sensor E4412A MY41498087 Apr-09 SN: S5054 (3c) Reference 3 dB Attenuator Aug-09 Reference 20 dB Attenuator SN: 35086 (20b) 31-Mar-08 (No. 217-00767) Apr-09 SN: S5129 (30b) B-Aug-07 (No. 217-00720) Reference 30 dB Attenuator Aug-88 Reference Probe H3DV6 2-Oct-07 (No. H3-6182_Oct07) SN: 6182 DAE4 SN: 660 3-Sep-07 (No. DAE4-660, Sep07). Sep-08 Secondary Standards Check Date (In house) Scheduled Check U\$3642U01700 RF generator HP 8648C 4-Aug-99 (in house check Oct-07) In house check: Oct-05 Network Analyzer HP 8753E US37390685 18-Oct-01 (in house check Oct-07) In house check: Oct-08 Calibrated by: Katja Pokovic Technical Manager Approved by: Niets Kuster Quality Manag Issued: April 21, 2008 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: H3-6142_Apr08

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

Accreditation No.: SCS 108

Appredited 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 φ rotation around probe axis Polarization φ

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

measurement center), i.e., 9 = 0 is normal to probe axis information used in DASY system to align probe sensor X to the robot Connector Angle

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 9 = 90 for XY sensors and 9 = 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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Page 2 of 8

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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 Apr08

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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_Apr08

Page 3 of 8

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H3DV6 SN:6142

April 21, 2008

DASY - Parameters of Probe: H3DV6 SN:6142

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

	a0	81	a2	
×	2.690E-03	-3.109E-5	-2.870E-5	± 5.1 % (k=2)
Y	2.661E-03	-5.442E-5	-6.570E-6	± 5.1 % (k=2)
Z	3.031E-03	-2.357E-4	1.583E-5	± 5.1 % (k=2)

Diode Compression¹

DCP X 86 mV DCP Y 86 mV DCP Z 85 mV

Sensor Offset (Probe Tip to Sensor Center)

> 3.0 mm 3.0 mm Z 3.0 mm

Connector Angle

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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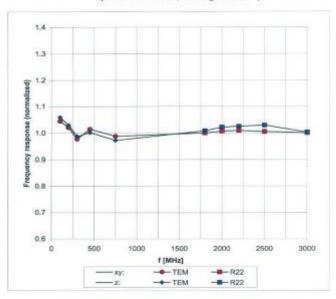
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H3DV6 SN:6142

April 21, 2008

Frequency Response of H-Field

(TEM-Cell:ifi110, Waveguide R22)



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

Certificate No: H3-6142_Apr08

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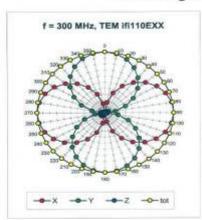


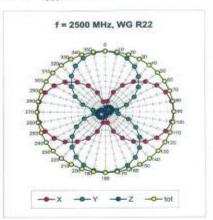
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H3DV6 SN:6142

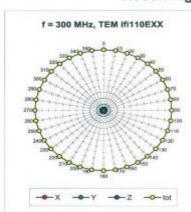
April 21, 2008

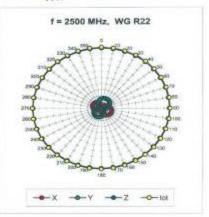
Receiving Pattern (6), 9 = 90°





Receiving Pattern (\$\phi\$), \$\theta = 0^\circ\$





Certificate No: H3-6142 Apr08

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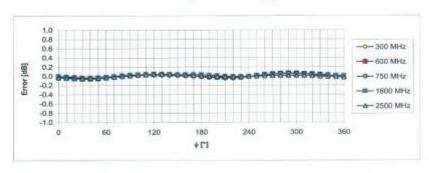


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H3DV6 SN:6142

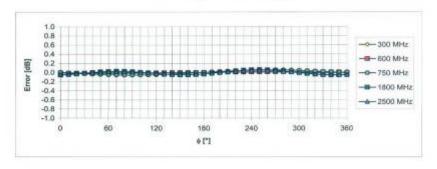
April 21, 2008

Receiving Pattern (\$\phi\$), \$\theta = 90°



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

Receiving Pattern (6), 9 = 0°



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

Certificate No: H3-6142_Apr08

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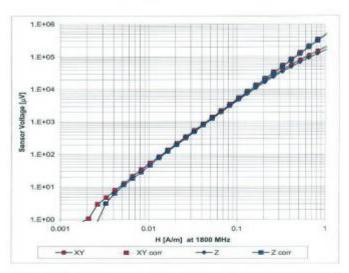
Page: 91 of 99

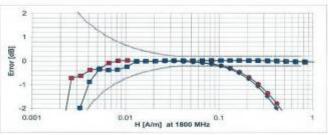
H3DV6 SN:6142

April 21, 2008

Dynamic Range f(H-field)

(Waveguide R22, f = 1800 MHz)





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

Certificate No: H3-8142_Apr08

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16. Uncertainty Analysis

HAC-Extension Setup Performance Test Using SPEAG Calibration Dipoles							
Error Description	Uncertainty value	Prob. Dist.	Div.	$egin{pmatrix} (c_i) \ E \end{bmatrix}$	(c_i) Π	Std. Unc.	Std. Unc.
Measurement System							
Probe Calibration	15.1%	N	1	1	1	±5.1%	±5.1%
Axial Isotropy	±4.7%	R	$\sqrt{3}$	1	1	±2.7 %	±2.7 %
Sensor Displacement	±16.5 %	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	1	±1.7%	±1.7%
RF Reflections	±6.0%	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	±1.0%	R	$\sqrt{3}$	1	1	±0.6 %	±0.6%
Dipole Related				Ì			
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						$\pm 13.7\%$	±9.3 %
Expanded Std. Uncertainty or						27.4 %	±18.6 %
Expanded Std. Uncertainty or	ı Field					$\pm 13.7 \%$	$\pm 9.3 \%$

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





Schweizerischer Kalibrierdienst 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 Accreditation No.: SCS 108

SGS (Auden)

Certificate No: CD835V3-1052 Apr08

Object	CD835V3 - SN	: 1052	
Calibration procedure(s)	QA CAL-20.v4 Calibration prod	cedure for dipoles in air	
Calibration date:	April 10, 2008		
Condition of the calibrated item	In Tolerance		
Calibration Equipment used (M& Primary Standards Power meter EPM-442A	TE critical for calibration) ID # GB37480704	Cal Date (Certificate No.) 04-Oct-07 (No. 217-00736)	Scheduled Calibration Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (No. 217-00736)	Oct-08
Probe ER3DV6	SN: 2336	31-Dec-07 (No. ER3-2336 Dec07)	Dec-08
Probe H3DV6	SN: 6065	31-Dec-07 (No. H3-6065Dec07)	Dec-08
DAE4	SN: 781	2-Oct-07 (No. DAE4-781_Oct07)	Oct-08
	ID#	Check Date (in house)	Scheduled Check
Secondary Standards	GB42420191	11-May-05 (in house check Oct -07)	In house check: Nov-08
The same of the sa			In house check: Nov-08
Power meter EPM-4419B Power sensor HP 8482A	US37295597	11-May-05 (in house check Oct -07)	
Power meter EPM-4419B Power sensor HP 8482A Power sensor HP 8482H	US37295597 3318A09450	08-Jan-02 (in house check Oct -07)	In house check: Nov-08
Power meter EPM-4419B Power sensor HP 8482A Power sensor HP 8482H Network Analyzer HP 8753E	US37295597		
Secondary Standards Power meter EPM-4419B Power sensor HP 8482A Power sensor HP 8482H Network Analyzer HP 8753E RF generator E4433B	US37295597 3318A09450 US37390585 MY 41310391	08-Jan-02 (in house check Oct-07) 18-Oct-01 (in house check Oct-07) 22-Nov-04 (in house check Oct-07)	In house check: Nov-08 In house check: Nov-09 In house check: Nov-09
Power meter EPM-4419B Power sensor HP 8482A Power sensor HP 8482H Vetwork Analyzer HP 8753E RF generator E4433B	US37295597 3318A09450 US37390585 MY 41310391	08-Jan-02 (in house check Oct-07) 18-Oct-01 (in house check Oct-07) 22-Nov-04 (in house check Oct-07) Function	In house check: Nov-08 In house check: Nov-09
Power meter EPM-4419B Power sensor HP 8482A Power sensor HP 8482H Vetwork Analyzer HP 8753E RF generator E4433B	US37295597 3318A09450 US37390585 MY 41310391	08-Jan-02 (in house check Oct-07) 18-Oct-01 (in house check Oct-07) 22-Nov-04 (in house check Oct-07) Function	In house check: Nov-08 In house check: Nov-09 In house check: Nov-09 Signature
Power meter EPM-4419B Power sensor HP 8482A Power sensor HP 8482H Network Analyzer HP 8753E	US37295597 3318A09450 US37390585 MY 41310391	08-Jan-02 (in house check Oct-07) 18-Oct-01 (in house check Oct-07) 22-Nov-04 (in house check Oct-07) Function	In house check: Nov-08 In house check: Nov-09 In house check: Nov-09

Certificate No: CD835V3-1052_Apr08

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3.3.2 DASY4 H-field result

Date/Time: 09.04.2008 14:06:12

Test Laboratory: SPEAG Lab 2

H_CD835_1052_080409

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, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

Phantom section: H Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 SN6065; ; Calibrated: 31.12.2007 Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 02.10.2007
- Phanton: HAC Test Arch with Coll; Type: SD HAC P01 BA; Serial: 1070 Measurement SW: DASY4, V4.7 Build 65; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - Sensor Center 10mm above CD835 Dipole/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

Reference Value = 0.486 A/m; Power Drift = -0.003 dB

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

Peak H-field in A/m

Grid I	Grid 2	Grid 3
0.385 M4	0.401 M4	0.373 M4
Grid 4	Grid 5	Grid 6
0.433 M4	0.457 M4	0.433 M4
Grid 7	Grid 8	Grid 9
0.381 M4	0.411 M4	0.393 M4



0 dB = 0.457A/m

Certificate No: CD835V3-1052_Apr06

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3.3.3 DASY4 E-field result

Date/Time: 10.04.2008 14:46:36

Test Laboratory: SPEAG Lab 2

E_CD835_1052_080410

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, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

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

DASY4 Configuration:

Probe: ER3DV6 - SN2336; ConvF(1, 1, 1); Calibrated: 31.12.2007 Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn781; Calibrated: 02.10.2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Scrial: 1070
- Measurement SW: DASY4, V4.7 Build 61; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - Sensor Center 10mm above CD835 Dipole 2/Hearing Aid Compatibility Test (41x361x1):

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

Maximum value of peak Total field = 165.2 V/m

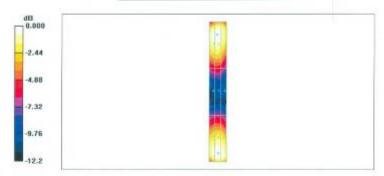
Probe Modulation Factor = 1.00

Reference Value = 104.3 V/m; Power Drift = -0.008 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
161.1 M4	163.4 M4	153.7 M4
Grid 4	Grid 5	Grid 6
87.2 M4	88.2 M4	83.4 M4
Grid 7	Grid 8	Grid 9
158.5 M4	165.2 M4	161.7 M4



0 dB = 165.2 V/m

Certificate No: CD835V3-1052_Apr08

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SGS (Auden)

Certificate No: CD1880V3-1044_Apr08

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE CD1880V3 - SN: 1044 Object QA CAL-20.v4 Calibration procedure(s) Calibration procedure for dipoles in air April 10, 2008 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). 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 EPM-442A GB37480704 04-Oct-07 (No. 217-00736) Oct-08 Power sensor HP 8481A US37292783 04-Oct-07 (No. 217-00736) Oct-08 Probe ER3DV6 SN: 2336 31-Dec-07 (No. ER3-2336_Dec07) Dec-08 Probe H3DV6 SN: 6065 31-Dec-07 (No. H3-6065_-Dec07) Dec-08 DAE4 SN: 781 2-Oct-07 (No. DAE4-781_Oct07) Oct-08 Secondary Standards ID# Check Date (in house) Scheduled Check Power meter EPM-4419B GB42420191 11-May-05 (in house check Oct -07) In house check: Nov-08 Power sensor HP 8482A US37295597 11-May-05 (in house check Oct -07) In house check: Nov-08 3318A09450 Power sensor HP 8482H 08-Jan-02 (in house check Oct -07) In house check: Nov-08 US37390585 Network Analyzer HP 8753E 18-Oct-01 (in house check Oct-07) In house check: Nov-09 Calibrated by: Claudio Leuble Laboratory Technician Approved by: Technical Director F. Bruhell Issued: April 14, 2008 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

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3.3.2 DASY4 E-Field Result

Date/Time: 10.04.2008 12:31:18

Test Laboratory: SPEAG Lab 2

E_CD1880_1044_080410

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: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 SN2336; ConvF(1, 1, 1); Calibrated: 31.12.2007
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 02.10.2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 1070

 Measurement SW: DASY4, V4.7 Build 61; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - Sensor Center 10mm above CD1880V3 Dipole/Hearing Aid Compatibility Test (41x181x1):

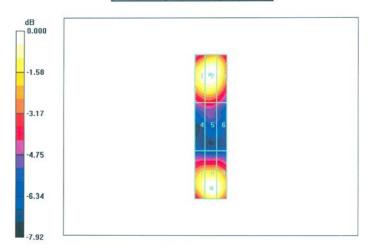
Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 141.4 V/m Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 160.0 V/m; Power Drift = 0.013 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
136.8 M2	139.9 M2	134.0 M2
Grid 4	Grid 5	Grid 6
91.9 M3	93.3 M3	87.9 M3
Grid 7	Grid 8	Grid 9
134.9 M2	141.4 M2	137.4 M2



0 dB = 141.4 V/m

Certificate No: CD1880V3-1044_Apr08

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3.3.2 DASY4 H-Field Result

Date/Time: 09.04.2008 15:00:21

Test Laboratory: SPEAG Lab 2

H_CD1880_1044_080409

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, $\epsilon_{\gamma}=1$; $\rho=1$ kg/m³ Phantom section: H Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

- DASY4 Configuration:
 Probe: H3DV6 SN6065; ; Calibrated: 31.12.2007

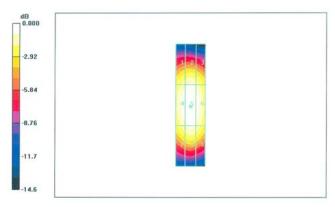
 - Sensor-Surface: (Fix Surface) Electronics: DAE4 Sn781; Calibrated: 02.10.2007
 - Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 1070
 - Measurement SW: DASY4, V4.7 Build 65; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - Sensor Center 10mm above CD1880V3 Dipole/Hearing Aid Compatibility Test (41x181x1): 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 = 0.492 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
0.402 M2	0.420 M2	0.398 M2
Grid 4	Grid 5	Grid 6
0.444 M2	0.464 M2	0.442 M2
Grid 7	Grid 8	Grid 9
0.406 M2	0.430 M2	0.409 M2



0 dB = 0.464 A/m

Certificate No: CD1880V3-1044 Apr08

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End of 1st part of report

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