HAC TEST REPORT

Test Item: Summary Result HAC Category = M4

REPORT NO.: HA980106L05

MODEL NO.: RHOD500

RECEIVED: Feb. 05, 2009

TESTED: Apr. 09, 2009

ISSUED: Apr. 20, 2009

APPLICANT: HTC Corporation

ADDRESS: No. 23, Xinghua Rd., Taoyuan City, 330, Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This test report consists of 34 pages in total except Appendix. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by any government agencies. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

1. CERTI FICATION

PRODUCT : Pocket PC Phone
MODEL NO. : RHOD500
APPLICANT : HTC Corporation
TESTED : Apr. 09, 2009
TEST SAMPLE : Engineering sample
STANDARDS : FCC Part 20.19
ANSI C63.19 2007
TEST ITEM: RF emissions

The above equipment (model no: RHOD500) have been tested by **Bureau Veritas Consumer Product s Services (H.K.) Lt d., T aoyuan Branch** , and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's characteristics under the conditions specified in this report.

PREPARED BY : _Andrea Hsia_ , **DATE:** Apr. 20, 2009
Andrea Hsia / Specialist

TECHNICAL ACCEPTANCE :
Responsible for RF _Long Chen_ , **DATE:** Apr. 20, 2009
Long Chen / Senior Engineer

APPROVED BY : _Gary Chang_ , **DATE:** Apr. 20, 2009
Gary Chang / Assistant Manager

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Wireless 802.11b/g and Bluetooth channel frequencies are only documented to demonstrate compliance testing for composite functions in the CDMA 850 and 1900 bands.

PRODUCT	Pocket PC Phone
MODEL NO.	RHOD500
FCC ID	NM8RHOD500
POWER SUPPLY	3.7Vdc from rechargeable lithium battery 5.0Vdc from power adapter 5.0Vdc from host equipment
CLASSIFICATION	Portable device, production unit
MODULATION TYPE	OQPSK, HPSK
FREQUENCY RANGE	824MHz ~ 849MHz (CDMA850) 1850MHz ~ 1910MHz (CDMA1900)
CHANNEL FREQUENCIES UNDER TEST AND ITS CONDUCTED OUTPUT POWER	CDMA850: 23.85dBm / 824.70MHz for channel 1013 23.62dBm / 836.50MHz for channel 384 24.02dBm / 848.30MHz for channel 777 CDMA1900: 23.91dBm / 1851.25MHz for channel 25 23.50dBm / 1880.00MHz for channel 600 24.03dBm / 1908.75MHz for channel 1175
HAC RATE CATEGORY	M4
ANTENNA TYPE	PIFA antenna
MAX. ANTENNA GAIN	**850MHz:** 0dBi **1900MHz:** 1dBi
DATA CABLE	1.25m non-shielded USB cable without core (Brand: MEC & ACON)
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Adapter, Battery

NOTE:

1. The communicated functions of EUT listed as below:

		850MHz	1900MHz	With WLAN 802.11b/g + BT 2.0 with EDR + GPS (CDMA rev. A)
3G	CDMA	√	√	
	1*EVDO	√	√	

2. The following accessory is for support units only.

PRODUCT	MODEL	DESCRIPTION
Earphone	HS G335	3.5mm connector 1.3m non-shielded without core

3. The EUT uses following LCM panels.

PRODUCT	BRAND	MODEL
LCM (Main)	Auo	H361VL01
LCM (2nd source)	EID	L4F00390T00
LCM (3rd source)	Sharp	LS036Y1LX01

**LCM (Main) was found to be the worst case and was selected for the final test configuration.

4. The EUT uses following Cameras.

PRODUCT	BRAND	MODEL
Camera (Main)	FOXCONN	3M-AF
Camera (2nd source)	LITEON	08PM17

** Camera (Main) was found to be the worst case and was selected for the final test configuration.

5. For USB cable, after pre-tested found brand: ACON was the worst therefore chosen for the final test and presented in the test report.

6. The EUT uses following batteries.

BATTERY 1: (MANUFACTORY: WELLDONE)	
BRAND	hTC
MODEL	RHOD160
RATING	3.7Vdc, 1500mAh, 5.55Whr

BATTERY 2: (MANUFACTORY: FORMOSA)	
BRAND	hTC
MODEL	RHOD160
RATING	3.7Vdc, 1500mAh, 5.55Whr

BATTERY 3: (MANUFACTORY: SIMPLO)	
BRAND	hTC
MODEL	RHOD160
RATING	3.7Vdc, 1500mAh, 5.55Whr

**After pre-tested, battery 2 was the worst case for the final test and presented in the test report.

7. The EUT were operated with following power adapters:

ADAPTER 1 (MANUFACTORY: Delta)	
BRAND	hTC
MODEL	TC P300
INPUT	100-240Vac, 0.2A, 50-60Hz
OUTPUT	5Vdc, 1A
POWER LINE	1.25m non-shielded cable without core

ADAPTER 2 (MANUFACTORY: Foxlink) (second source)	
BRAND	hTC
MODEL	TC P300
INPUT	100-240Vac, 0.2A, 50-60Hz
OUTPUT	5Vdc, 1A
POWER LINE	1.25m non-shielded cable without core

8. Refer to following table for MEID no.:

MEID NO.
A1000007******

9. Hardware version: NA
10. Software version: NA
11. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

2.2 DESCRIPTIONOF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
1	Universal Radio Communication Tester	R&S	CMU200	101372	Jan. 10, 2010

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to the specifications of the manufacturer, this product must comply with the requirements of the following standards:

FCC Part 20.19

ANSI C63.19 – 2007

All test items have been performed and recorded as per the above standards.

3. GENERAL INFORMATION OF THE DASY4 SYSTEM

3.1. GENERAL INFORMATION OF TEST EQUIPMENT

DASY4 (software 4.7 Build 80) consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4 software defined. The DASY4 software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.

ER3DV6 E-FIELD PROBE

CONSTRUCTION	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges
CALIBRATION	In air from 100MHz to 3.0GHz (absolute accuracy ± 6.0%, k = 2)
FREQUENCY	100MHz to > 6GHz; Linearity: ± 0.2dB (100MHz to 3GHz)
DIRECTIVITY	± 0.2dB in air (rotation around probe axis) ± 0.4dB in air (rotation normal to probe axis)
DYNAMIC RANGE	2V/m to > 1000V/m (M3 or better device readings fall well below diode compression point) Linearity: ± 0.2dB
DIMENSIONS	Overall length: 330mm (Tip: 16mm)
	Tip diameter: 8mm (Body: 12mm)
	Distance from probe tip to dipole centers: 2.5mm

H3DV6 H-FIELD PROBE

CONSTRUCTION	Three concentric loop sensors with 3.8mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges
FREQUENCY	200MHz to 3GHz (absolute accuracy ± 6.0%, k = 2); Output linearized
DIRECTIVITY	± 0.25dB (spherical isotropy error)
DYNAMIC RANGE	10mA/m to 2A/m at 1GHz (M3 or better device readings fall well below diode compression point)
DIMENSIONS	Overall length: 330mm (Tip: 40mm)
	Tip diameter: 6mm (Body: 12mm)
	Distance from probe tip to dipole centers: 3mm
E-FIELD INTERFERENCE	< 10% at 3GHz (for plane wave)

 NOTE: The Probe parameters have been calibrated by the SPEAG. Please reference "APPENDIX D" for the Calibration Certification Report.

HAC ARCH
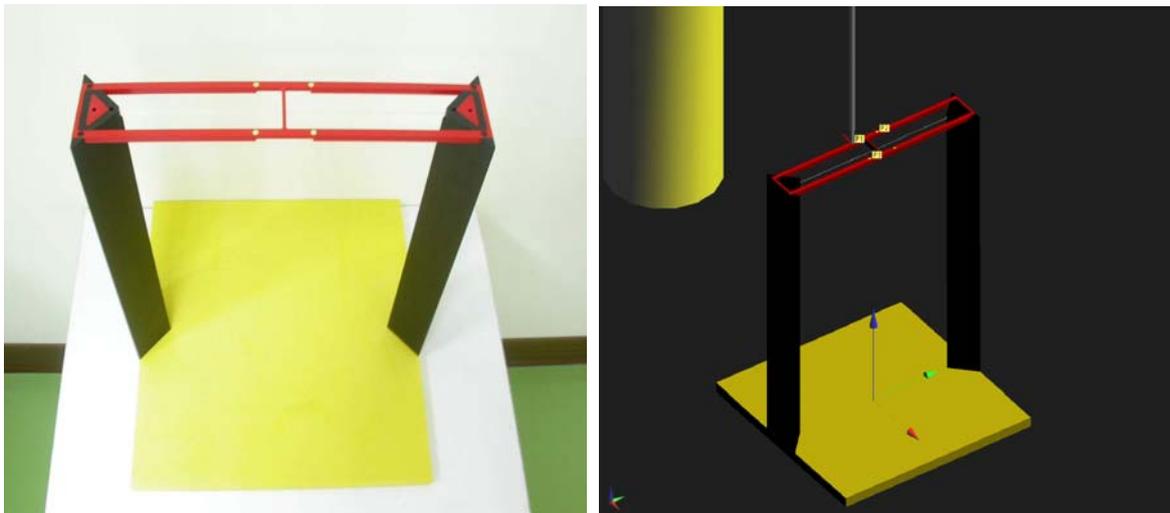
DIMENSIONS	370 x 370 x 370mm

SYSTEM VALIDATION KITS:

CD835V3

Frequency Band: 800 ~ 960MHz (free space)

Return Loss: > 15dB

Calibrated at: 835MHz

Power Capability: 50W continuous

Length & Height: 166 x 330mm

CD1880V3

Frequency Band: 1710 ~ 2000MHz (free space)

Return Loss: > 18dB

Calibrated at: 1880MHz

Power Capability: 50W continuous

Length & Height: 80.8 x 330mm

DEVICE HOLDER

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

DATA ACQUISITION ELECTRONICS (DAE)

CONSTRUCTION

The data acquisition electronics (DAE3) consists of a highly sensitive electrometer grade preamplifier with auto-zeroing, a channel and gain-switching multiplex, a fast 16 bit AD converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The mechanical probe is mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection. The input impedance of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.

3.2. TEST EQUIPMENT LIST

ITEM	NAME	BRAND	TYPE	SERIES NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
1	SAM Phantom	S & P	SD HAC P01 BA	1034	NA	NA
2	Signal Generator	Anritsu	68247B	984703	May 27, 2008	May 26, 2009
3	E-Field Probe	Speag	ER3DV6	2293	Jan. 14, 2009	Jan. 13, 2011
4	H-Field Probe	Speag	H3DV6	6124	Jan. 20, 2009	Jan. 19, 2011
5	DAE	S & P	DAE	510	Jan. 21, 2009	Jan. 20, 2010
6	Robot Positioner	Staubli Unimation	NA	NA	NA	NA
7	Validation Dipole	S & P	CD835V3	1041	May 14, 2008	May 13, 2010
8	Validation Dipole	S & P	CD1880V3	1032	Jul. 16, 2008	Jul. 15, 2010
9	Power Meter	Angilent	E4416A	GB41291763	Sep. 30, 2008	Sep. 29, 2009
10	Power Sensor		E9327A	US40441181	Sep. 30, 2008	Sep. 29, 2009

NOTE: Before starting the measurement, all test equipment shall be warmed up for 30min.

3.3. MEASURE MENT UNCERTAINTY

HAC UNCERTAINTY BUDGET ACCORDING TO ANSI C63.19[1]							
ERROR DESCRIPTION	UNCERTAINTY VALUE	PROBABILITY DISTRIBUTION	DIVISOR	(Ci) E	(Ci) H	STD. UNC. E	STD. UNC. H
MEASUREMENT SYSTEM							
Probe calibration	±5.1%	Normal	1	1	1	±5.1%	±5.1%
Axial isotropy	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%
Sensor Displacement	±16.5%	Rectangular	√3	1	0.145	±9.5%	±1.4%
Boundary Effects	±2.4%	Rectangular	√3	1	1	±1.4%	±1.4%
Linearity	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%
Scaling to Peak Envelope Power	±2.0%	Rectangular	√3	1	1	±1.2%	±1.2%
System Detection Limit	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%
Readout Electronics	±0.3%	Rectangular	√3	1	1	±0.3%	±0.3%
Response Time	±0.8%	Rectangular	√3	1	1	±0.5%	±0.5%
Integration Time	±2.6%	Rectangular	√3	1	1	±1.5%	±1.5%
RF Ambient Condition	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%
RF Reflections	±12.0%	Rectangular	√3	1	1	±6.9%	±6.9%
Probe Positioner	±1.2%	Rectangular	√3	1	0.67	±0.7%	±0.5%
Probe Positioning	±4.7%	Rectangular	√3	1	0.67	±2.7%	±1.8%
Extrap. And Interpolation	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%
TEST SAMPLE RELATED							
Device Positioning Vertical	±4.7%	Rectangular	√3	1	0.67	±2.7%	±1.8%
Device Positioning Lateral	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%
Device Holder and Phantom	±2.4%	Rectangular	√3	1	1	±1.4%	±1.4%
Power Drift	±5.0%	Rectangular	√3	1	1	±2.9%	±2.9%
PHANTOM AND SETUP RELATED							
Phantom Thickness	±2.4%	Rectangular	√3	1	0.67	±1.4%	±0.9%
COMBINED STD. UNCERTAINTY						±14.7%	±10.9%
EXPANDED STD. UNCERTAINTY ON POWER						±29.4%	±21.8%
EXPANDED STD. UNCERTAINTY ON FIELD						±14.7%	±10.9%

NOTE: Worst-case uncertainty budget for HAC free field assessment according to ANSI C63.19 [1]. The budget is valid for the frequency range 800MHz ~ 3GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerably smaller.

3.4. GENERAL DESCRIPTION OF THE HAC EVALUATION

The DASY4 post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the micro-volt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity $\qquad$ $Norm_i$, a_{i0}, a_{i1}, a_{i2}

$\qquad$ - Conversion factor $\qquad$ $ConvF_i$

$\qquad$ - Diode compression point $\qquad$ dcp_i

Device parameters: - Frequency $\qquad$ F

$\qquad$ - Crest factor $\qquad$ Cf

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

$$V_i = U_i + U_i^2 \bullet \frac{cf}{dcp_i}$$

V_i = compensated signal of channel i $\qquad$ (i = x, y, z)

U_i = input signal of channel I $\qquad$ (i = x, y, z)

Cf = crest factor of exciting field $\qquad$ (DASY parameter)

dcp_i = diode compression point $\qquad$ (DASY parameter)

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

$$\textbf{\textit{E-field probes: }} E_i = \sqrt{\frac{V_1}{Norm_i \cdot ConvF}}$$

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

V_i = compensated signal of channel I (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i µV/(V/m)2 for E-field Probes (i = x, y, z)

$ConvF$ = sensitivity enhancement in solution

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

F = carrier frequency [GHz]

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

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

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

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

The primary field data are used to calculate the derived field units.

E = field strength in V/m

E_{tot} = total field strength in V/m

NOTE: The signal response time is evaluated as the time required by the system to reach 90% of the expected final value after an on/off switch of the power source with an integration time of 500ms and a probe response time of < 5ms. In the current implementation, DASY4 waits longer than 100ms after having reached the grid point before starting a measurement, i.e., the response time uncertainty is negligible.

4. PERFORMANCE CATEGORIES

The ANSI Standard presents performance requirements for acceptable interoperability of hearing aids with wireless communications devices. When these parameters are met, a hearing aid operates acceptably in close proximity to a wireless communications device.

CATEGORY NEAR FIELD	AWF	TELEPHONE RF PARAMETERS < 960MHz			
		E-FIELD EMISSION CW (dBV/m)	E-FIELD EMISSION CW (V/m)	H-FIELD EMISSION CW (dBA/m)	H-FIELD EMISSION CW (A/m)
M1	0	56.0 to 61.0	631.0 to 1122.0	5.6 to 10.6	1.91 to 3.39
	-5	53.5 to 58.5	473.2 to 841.4	3.1 to 8.1	1.43 to 2.54
M2	0	51.0 to 56.0	354.8 to 631.0	0.6 to 5.6	1.07 to 1.91
	-5	48.5 to 53.5	266.1 to 473.2	-1.9 to 3.1	0.80 to 1.43
M3	0	46.0 to 51.0	199.5 to 354.8	-4.4 to 0.6	0.60 to 1.07
	-5	43.5 to 48.5	149.6 to 266.1	-6.9 to -1.9	0.45 to 0.80
M4	0	< 46.0	< 199.5	< -4.4	< 0.60
	-5	< 43.5	< 149.6	< -6.9	< 0.45

CATEGORY NEAR FIELD	AWF	TELEPHONE RF PARAMETERS > 960MHz			
		E-FIELD EMISSION CW (dBV/m)	E-FIELD EMISSION CW (V/m)	H-FIELD EMISSION CW (dBA/m)	H-FIELD EMISSION CW (A/m)
M1	0	46.0 to 51.0	199.5 to 354.8	-4.4 to 0.6	0.60 to 1.07
	-5	43.5 to 48.5	149.6 to 266.1	-6.9 to -1.9	0.45 to 0.80
M2	0	41.0 to 46.0	112.2 to 199.5	-9.4 to -4.4	0.34 to 0.60
	-5	48.5 to 53.5	84.1 to 149.6	-11.9 to -6.9	0.25 to 0.45
M3	0	36.0 to 41.0	63.1 to 112.2	-14.4 to -9.4	0.19 to 0.34
	-5	33.5 to 38.5	47.3 to 84.1	-16.9 to -11.9	0.14 to 0.25
M4	0	< 36.0	< 63.1	< -14.4	< 0.19
	-5	< 33.5	< 47.3	< -16.9	< 0.14

ARTICULATION WEIGHING FACTOR (AWF)

The following AWF factors shall be used for the standard transmission protocols:

| STANDARD	TECHNOLOGY	AWF (dB)
TIA/EIA/IS-2000	CDMA	0
TIA/EIA-136	TDMA (50Hz)	0
iDENTM	TDMA (22 and 11Hz)	0
J-STD-007	GSM (217)	-5
T1/T1P1/3GPP	UMTS (WCDMA)	0

5. SYSTEM CHECK

The measured values (E-field and H-field) were compared with the values provided by the probe manufacturer and must within the allowed tolerance of **25%**.

5.1. V ALIDATION STRUCTURE

The input signal was an un-modulated continuous wave. The following points were taken into consideration in performing this check:

- Average Input Power P = 100mW RMS (20dBm RMS) after adjustment for return loss

- The test fixture must meet the 2 wavelength separation criterion

- The proper measurement of the 1cm probe to dipole separation, which is measured from top surface of the dipole to the calibration reference point of the sensor, defined by the probe manufacturer is shown in the following diagram:
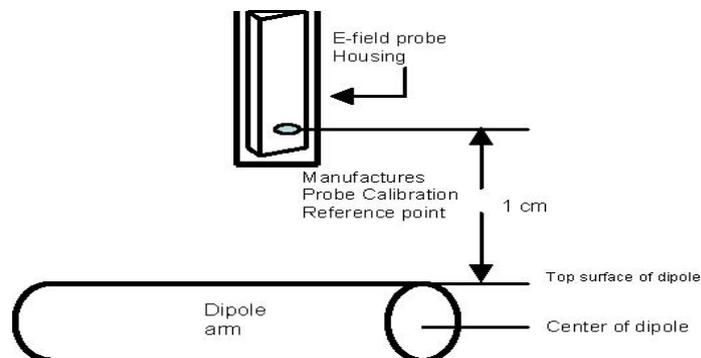
5.2. SYSTEM CHECK PROCEDURE

1. Before you start the system performance check, need only to tell the system with which components (probe type, validation dipole and HAC arch) are performing the system performance check; the system will take care of all parameters.

The system check configuration is shown in the following figure:
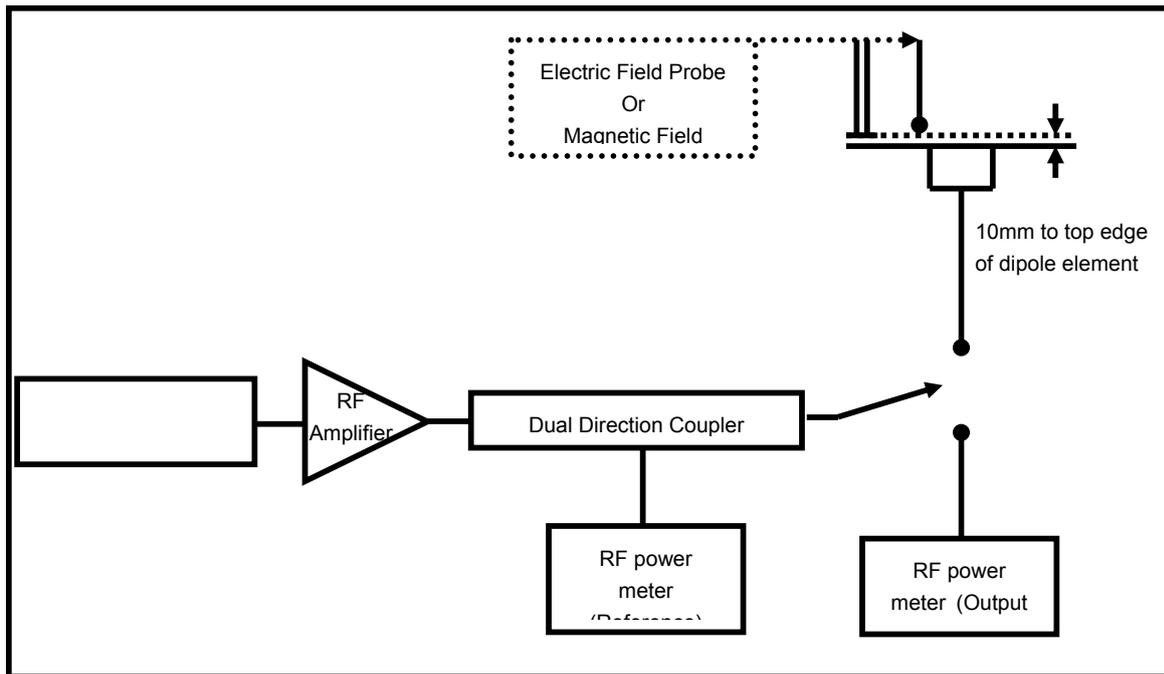
2. The dipole was energized with a 20dBm unmodulated continuous-wave signal.

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

5.3. V ALIDATION RESULTS

SYSTEM CHECK						
TEST FREQUENCY (MHz)	**BEGIN TEST SG POWER (mW)**	**REQUIRED E-FILED (V/m)**	**MEASURED E-FILED (V/m)**	**DEVIATION (%)**	**SEPARATION DISTANCE (mm)**	**TESTED DATE**
835	100.0	164.3	148.7	-9.49	10	Apr. 09, 2009
1880	100.0	141.8	125.5	-11.5	10	Apr. 09, 2009
TEST FREQUENCY (MHz)	**BEGIN TEST SG POWER (mW)**	**REQUIRED H-FILED (A/m)**	**MEASURED H-FILED (A/m)**	**DEVIATION (%)**	**SEPARATION DISTANCE (mm)**	**TESTED DATE**
835	100.0	0.456	0.465	1.97	10	Apr. 09, 2009
1880	100.0	0.467	0.458	-1.93	10	Apr. 09, 2009
TESTED BY	Sam Onn					

NOTE: Please see Appendix for the system validation test data.

6. MODULATION   FACTOR

A calibration was made of the modulation response of the probe and its instrumentation chain. This calibration was performed with the field probe, attached to its instrumentation. The response of the probe system to a CW field at the frequency of interest is compared to its response to a modulated signal with equal peak amplitude to that of a CW signal. The field level of the test signals are ensured to be more than 10dB above the ambient level and the noise floor of the instrumentation being used. The ratio of the CW reading to that taken with a modulated reading was applied to the DUT measurements.

This was done using the following procedure:

1. Fixing the probe in a set location relative to a field generating device, such as a reference dipole antenna, as illustrated in the system check procedure.

2. Illuminate the probe using the wireless device connected to the reference dipole with a test signal at the intended measurement frequency, Ensure there is sufficient field coupling between the probe and the antenna so the resulting reading is greater than 10dB above the probe system noise floor but within the systems operating range.

3. Record the amplitude applied to the antenna during transmission and the field strength measured by the E-field probe located near the tip of the dipole antenna.

4. Replace the wireless device with an RF signal generator producing an unmodulated CW signal and set to the wireless device operating frequency.

5. Set the amplitude of the unmodulated signal to equal that recorded from the wireless device.

6. Record the reading of the probe measurement system of the unmodulated signal.

7. The RF signal generator producing an 80%AM signal and set to the wireless device operating frequency. Set the amplitude of the signal to equal that recorded from the wireless device.

8. Record the reading of the probe measurement system of the 80%AM signal.

9. The ratio, in linear units, of the probe reading in Step 3) or 8) to the reading in Step 6) is the E-field modulation factor.

10. Steps 1-9 were repeated at all frequency bands and for both E and H field probes.

NOTE: The ratio of the CW to modulated signal reading is the modulation factor. The modulation factors obtained were applied to readings taken of the actual wireless device, in order to obtain an accurate peak field reading using the formula:
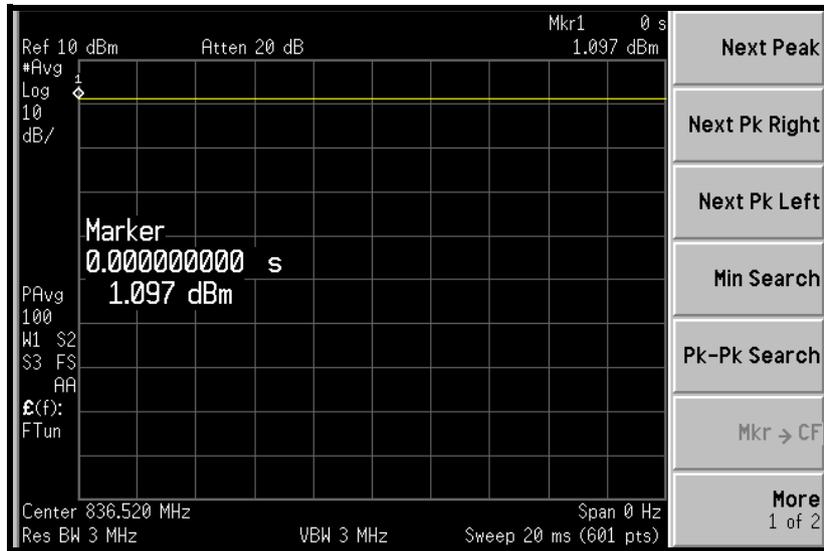
$$\textbf{Peak = 20} \cdot \textbf{log(Raw} \cdot \textbf{ProbeModulationFactor)}$$
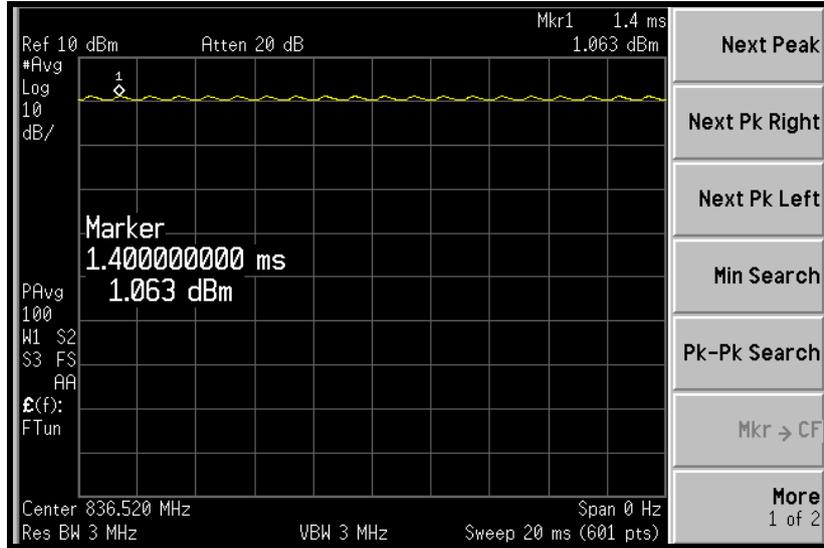
6.1 MODULATION FACTOR TEST RESULTS

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED E-FILED (V/m)	E-FILED MODULATION FACTOR	TESTED DATE
836.5	CW	Refer to the next three plots	168.0	NA	Apr. 09, 2009
	80% AM		157.5	1.07	
	CDMA		173.8	0.97	

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED H-FILED (A/m)	H-FILED MODULATION FACTOR	TESTED DATE
836.5	CW	Refer to the next three plots	0.510	NA	Apr. 09, 2009
	80% AM		0.478	1.07	
	CDMA		0.535	0.95	

TESTED BY	Sam Onn

CW SIGNAL:
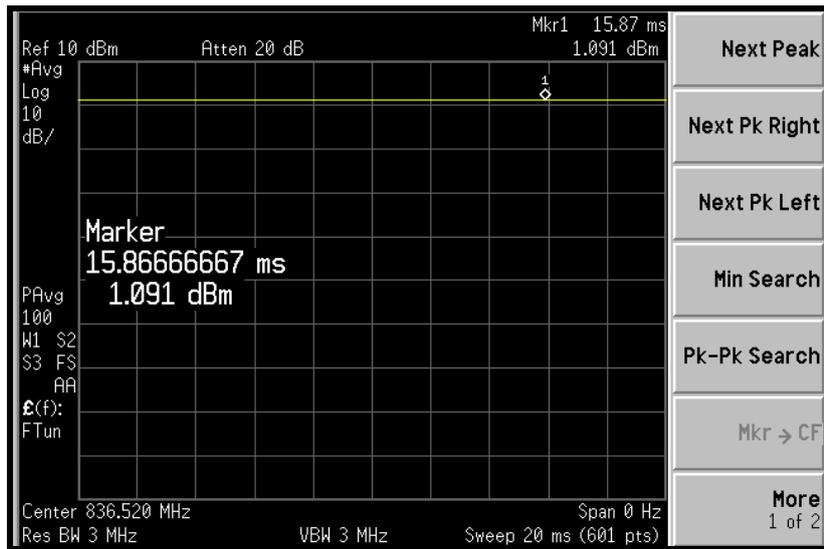
80% AM SIGNAL:

CDMA SIGNAL:

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED E-FILED (V/m)	E-FILED MODULATION FACTOR	TESTED DATE
1880.0	CW	Refer to the next three plots	92.90	NA	Apr. 09, 2009
	80% AM		86.50	1.07	
	CDMA		96.40	0.96	

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED H-FILED (A/m)	H-FILED MODULATION FACTOR	TESTED DATE
1880.0	CW	Refer to the next three plots	0.450	NA	Apr. 09, 2009
	80% AM		0.421	1.07	
	CDMA		0.462	1.97	

TESTED BY	Sam Onn

CW SIGNAL:
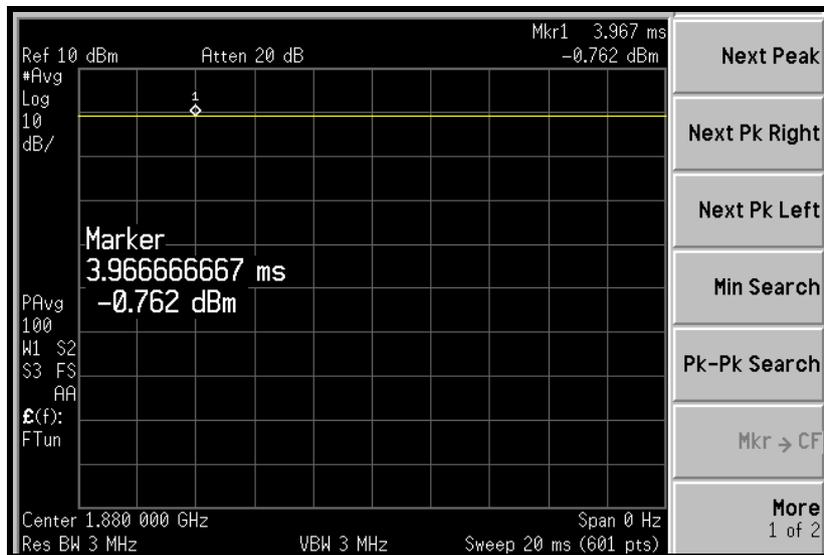
80% AM SIGNAL:
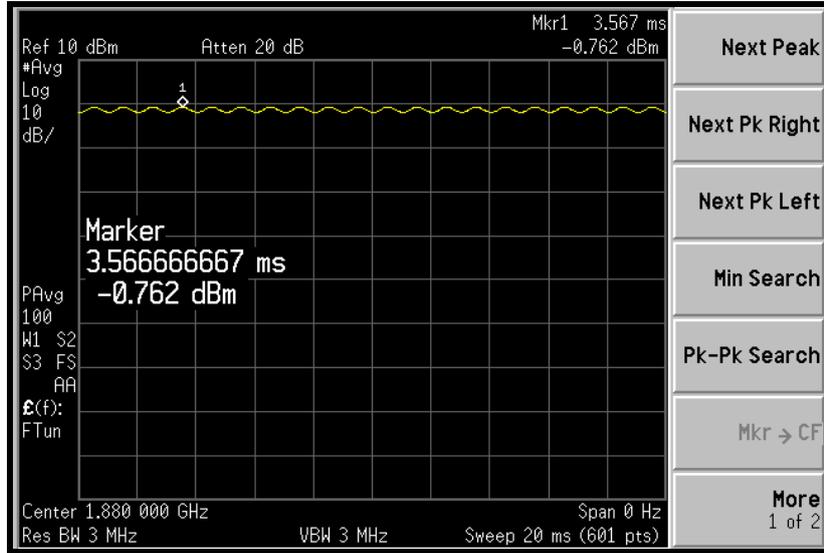
CDMA SIGNAL:
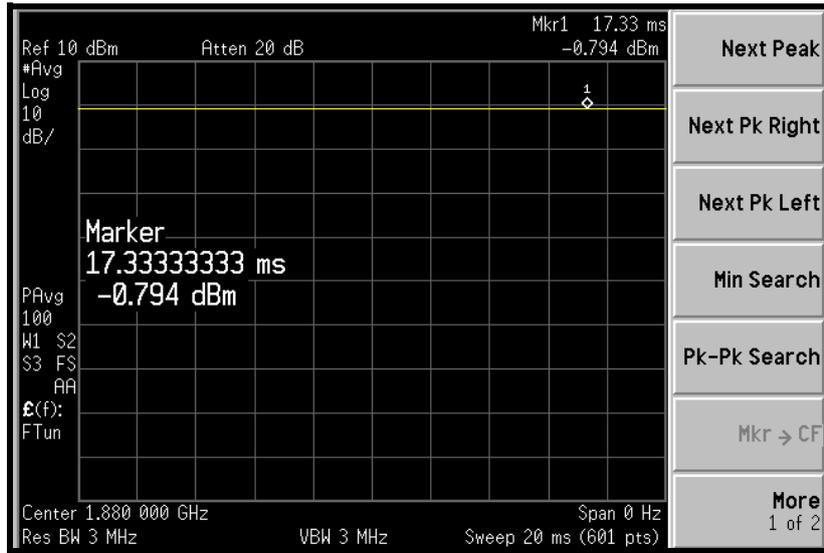
7. RF EMISSION TEST PROCEDURES

7.1. TEST INSTRUCTION

```
┌─────────────────────────────────────┐
│ ◆ Confirm proper operation of probes │
│   and instrumentation                │
│ ◆ Position WD                        │◄─────────┐
│ ◆ Configure WD Tx Operation          │          │
│                                      │          │
│   Per Section 4.3.1.2.1 (1 ~ 3)      │          │
└─────────────────────────────────────┘          │
              │                                    │
              ▼                                    │
┌─────────────────────────────────────┐    ┌──────────────────────────┐
│ ◆ Initialize field probe             │    │                          │
│ ◆ Scan Area                          │    │ Rescan for E or H-Field, │
│                                      │    │       as needed          │
│   Per Section 4.3.1.2.1 (4)          │    │                          │
└─────────────────────────────────────┘    │ Per Section 4.3.1.2.1 (9)│
              │                              └──────────────────────────┘
              ▼                                    ▲
┌─────────────────────────────────────┐          │
│ ◆ Identify exclusion area, place     │          │
│   exclusion block                    │          │
│ ◆ Rescan open area                   │          │
│ ◆ Record maximum reading, in V/m     │          │
│   or A/m                             │          │
│                                      │          │
│   Per Section 4.3.1.2.1 (5 ~ 7)      │          │
└─────────────────────────────────────┘          │
              │                                    │
              ▼                                    │
         ╱─────────╲                               │
        ╱  Both E & H ╲      NO                    │
       ╱   Field       ╲──────────────────────────┘
        ╲  Scanned?    ╱
         ╲───────────╱
              │ YES
              ▼
┌─────────────────────────────────────┐
│                                      │
│   Identify & Record Category         │
│                                      │
│   Per Section 4.3.1.2.1 (8) & 7.2    │
│                                      │
└─────────────────────────────────────┘
```

7.2. TEST PROCEDURES

The EUT (Pocket PC Phone) makes a phone call to the GSM base station. Establish the simulation communication configuration rather the actual communication. Then the EUT could continuous the transmission mode. Adjust the PCL of the base station could controlled the EUT to transmitted the maximum output power. The base station also could control the transmission channel.

The recommended procedure for assessing the RF emission value consists of the following steps:

1. Proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed.

2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.

3. The 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.

4. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC arch.

5. The measurement system measured the field strength at the reference location.

6. Measurements at 2mm increments in the 5 x 5cm 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.

7. Steps 1-6 were done for both the E and H-Field measurements.

•

7.3. DESCRIPTION OF TEST POSITION AND CONFIGURATIONS

5 cm x 5 cm Control Area

15mm

Reference Plane

Center Line

Measurement Plane
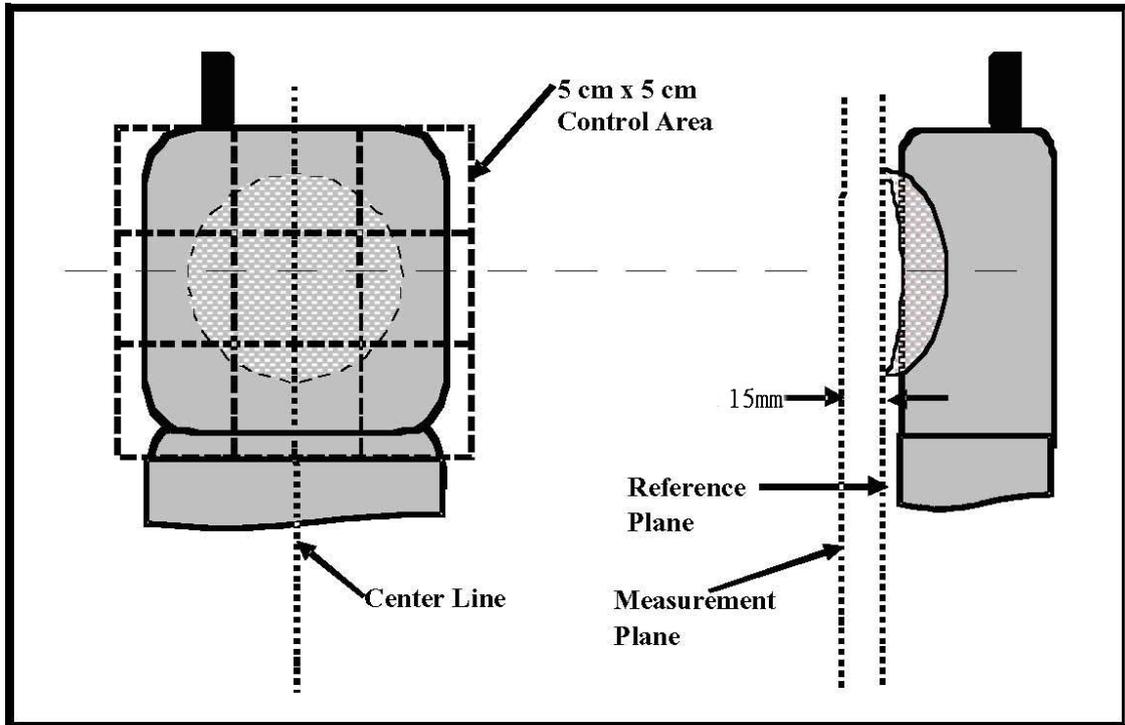
SUMMARY OF MEASURED HAC RESULTS

E-FIELD EMISSION

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH						
TESTED BY	Sam Onn			**DATE**		Apr. 09, 2009	

FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (V/m)	RATING
824.70 (Low)	1013		23.85	-0.061		2, 3, 6	62.9	M4
836.50 (Mid.)	384	CDMA850 Only	23.62	-0.137		2, 3, 6	72.4	M4
848.30 (High)	777		24.02	-0.115		2, 3, 6	58.2	M4
836.50 (Mid.)	384	CDMA850+11b	23.62	-0.121	0.97	2, 3, 6	66.9	M4
836.50 (Mid.)	384	CDMA850+11g	23.62	-0.134		2, 3, 6	65.3	M4
836.50 (Mid.)	384	CDMA850+BT	23.62	-0.041		2, 3, 6	69.4	M4
836.50 (Mid.)	384	CDMA850 Only Light Off	23.62	-0.001		2, 3, 6	71.2	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH						
TESTED BY	Sam Onn			DATE		Apr. 09, 2009	
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (V/m)	RATING
1851.25 (Low)	25		23.91	-0.046		7, 8, 9	47.6	M4
1880.00 (Mid.)	600	CDMA1900 Only	23.50	-0.034		6, 8, 9	47.3	M4
1908.75 (High)	1175		24.03	-0.232		6, 8, 9	56.6	M4
1908.75 (High)	1175	CDMA1900+11b	24.03	-0.218	0.96	6, 8, 9	55.8	M4
1908.75 (High)	1175	CDMA1900+11g	24.03	-0.114		6, 8, 9	54.1	M4
1908.75 (High)	1175	CDMA1900+BT	24.03	-0.027		6, 8, 9	54.7	M4
1908.75 (High)	1175	CDMA1900 Only Light Off	24.03	-0.011		7, 8, 9	55.3	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

E-FIELD EMISSION

(2nd LCM (Brand: EID))

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH							
TESTED BY	Sam Onn			DATE		Apr. 09, 2009		
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (V/m)	RATING
836.50 (Mid.)	384	CDMA850 Only	23.62	-0.055	0.97	2, 3, 6	71.2	M4
1908.75 (High)	1175	CDMA1900 Only	24.03	-0.051	0.96	6, 8, 9	54.9	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

E-FIELD EMISSION

(3rd LCM (Brand: SHARP))

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH							
TESTED BY	Sam Onn			DATE		Apr. 09, 2009		
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (V/m)	RATING
836.50 (Mid.)	384	CDMA850 Only	23.62	-0.017	0.97	2, 3, 6	70.4	M4
1908.75 (High)	1175	CDMA1900 Only	24.03	-0.352	0.96	6, 8, 9	53.5	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement..

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

H-FIELD EMISSION

ENVIRONMENTAL CONDITION			Air Temperature：23.5°C, Humidity：60%RH						
TESTED BY			Sam Onn			DATE		Apr. 09, 2009	
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (A/m)	RATING
824.70 (Low)	1013	CDMA850 Only	23.85	-0.14		4, 7, 8	0.210	M4
836.50 (Mid.)	384		23.62	-0.447		4, 7, 8	0.247	M4
848.30 (High)	777		24.02	-0.156		4, 7, 8	0.202	M4
836.50 (Mid.)	384	CDMA850+11b	23.62	-0.018	0.95	4, 7, 8	0.236	M4
836.50 (Mid.)	384	CDMA850+11g	23.62	-0.171		4, 7, 8	0.210	M4
836.50 (Mid.)	384	CDMA850+BT	23.62	-0.006		4, 7, 8	0.204	M4
836.50 (Mid.)	384	CDMA850 Only (Light off)	23.62	-0.051		4, 7, 8	0.235	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH						
TESTED BY	Sam Onn			DATE		Apr. 09, 2009	
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (A/m)	RATING
1851.25 (Low)	25	CDMA1900 Only	23.91	-0.014		4, 7, 8	0.134	M4
1880.00 (Mid.)	600	CDMA1900	23.5	-0.001		4, 7, 8	0.128	M4
1908.75 (High)	1175	CDMA1900	24.03	-0.375		4, 7, 8	0.188	M4
1908.75 (High)	1175	CDMA1900+11b	24.03	-0.031	0.97	4, 7, 8	0.180	M4
1908.75 (High)	1175	CDMA1900+11g	24.03	-0.056		4, 7, 8	0.172	M4
1908.75 (High)	1175	CDMA1900+BT	24.03	-0.022		4, 7, 8	0.155	M4
1908.75 (High)	1175	CDMA1900 Only (Light Off)	24.03	-0.065		4, 7, 8	0.152	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

H-FIELD EMISSION

(2nd LCM (Brand: EID))

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH							
TESTED BY	Sam Onn				DATE		Apr. 09, 2009	
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (A/m)	RATING
836.50 (Mid.)	384	CDMA850 Only	23.62	-0.026	0.95	4,7,8	0.239	M4
1908.75 (High)	1175	CDMA1900 Only	24.03	-0.067	0.97	4,7,8	0.180	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

H-FIELD EMISSION

(3rd LCM (Brand: SHARP))

ENVIRONMENTAL CONDITION	Air Temperature：23.5°C, Humidity：60%RH							
TESTED BY	Sam Onn				DATE		Apr. 09, 2009	
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (A/m)	RATING
836.50 (Mid.)	384	CDMA850 Only	23.62	-0.244	0.95	4,7,8	0.231	M4
1908.75 (High)	1175	CDMA1900 Only	24.03	-0.028	0.97	4,7,8	0.173	M4

NOTE:

1. The LCD back-light "ON" & battery 1 (Manufactory: WELLDONE) are the worst case for measurement.

2. Please see the Appendix A for the measured data and test plots.

3. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

8. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP
GERMANY	TUV Rheinland
JAPAN	VCCI
NORWAY	NEMKO
CANADA	INDUSTRY CANADA, CSA
R.O.C.	TAF, BSMI, NCC
NETHERLANDS	Telefication
SINGAPORE	GOST-ASIA (MOU)
RUSSIA	CERTIS (MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:
www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

---END---

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch1013

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 824.7 MHz

Communication System: CDMA ; Frequency: 824.7 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
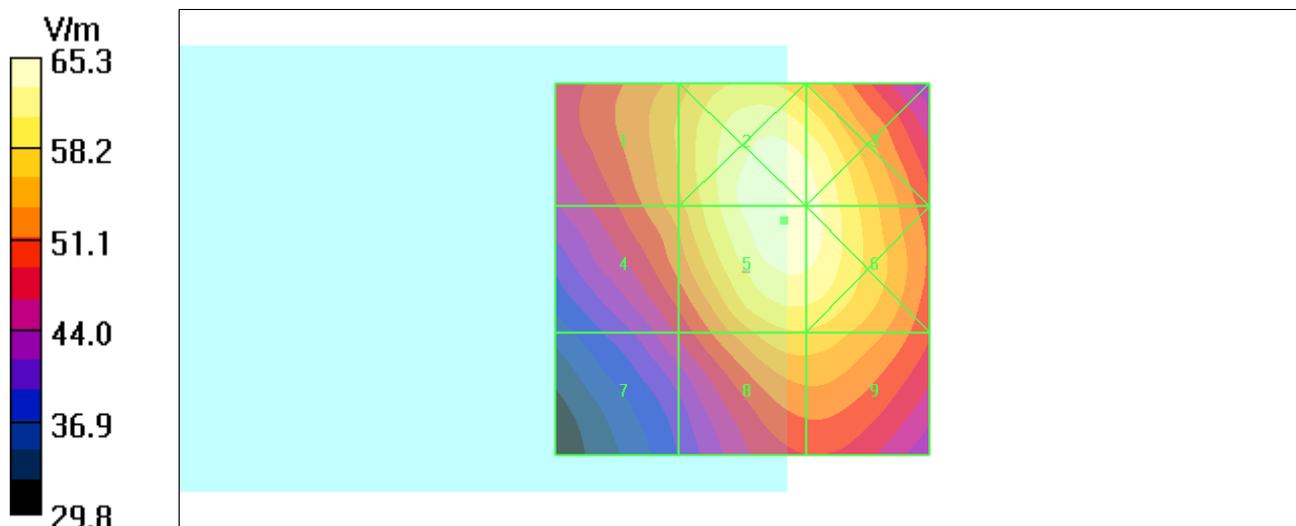Maximum value of peak Total field = 62.9 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 65.7 V/m; Power Drift = -0.061 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
54.1 M4	**62.5 M4**	**61.9 M4**
Grid 4	Grid 5	Grid 6
52.8 M4	**62.9 M4**	**62.2 M4**
Grid 7	Grid 8	Grid 9
44.1 M4	**56.3 M4**	**56.3 M4**

A - 1

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch384
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
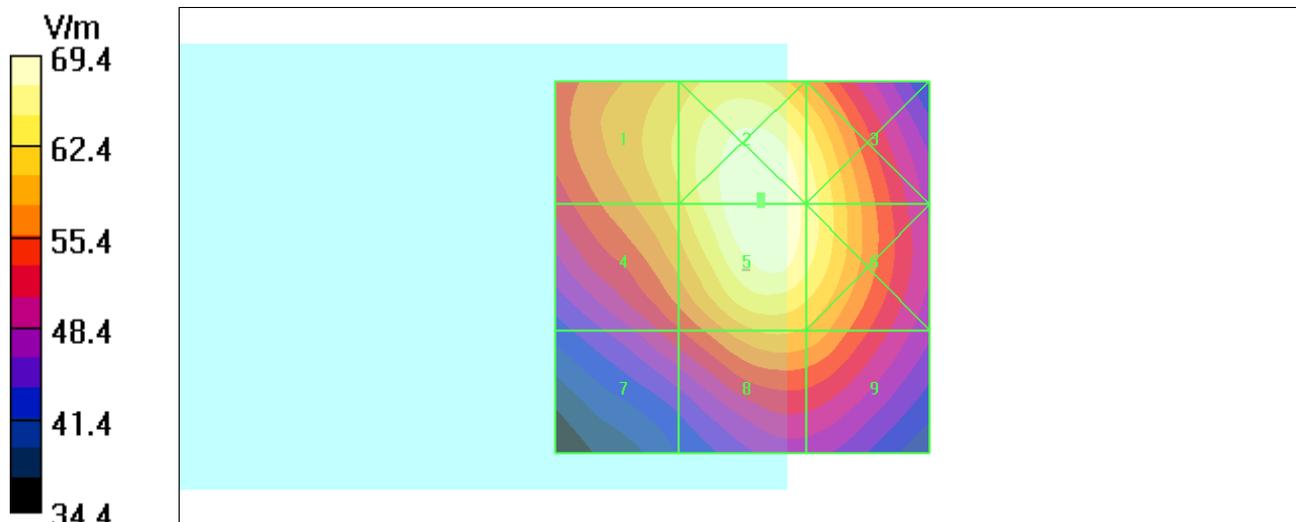Maximum value of peak Total field = 72.4 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 88.5 V/m; Power Drift = -0.137 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
65.0 M4	**72.4 M4**	**69.5 M4**
Grid 4	Grid 5	Grid 6
63.9 M4	**72.4 M4**	**69.6 M4**
Grid 7	Grid 8	Grid 9
53.7 M4	**62.6 M4**	**61.9 M4**
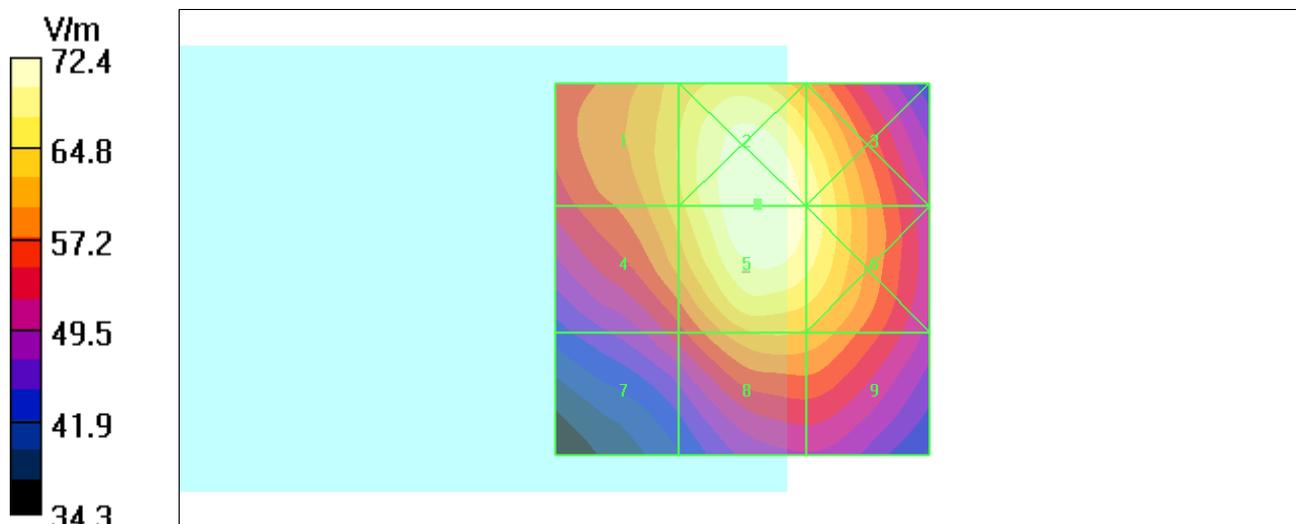
Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch777

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 848.3 MHz

Communication System: CDMA ; Frequency: 848.3 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

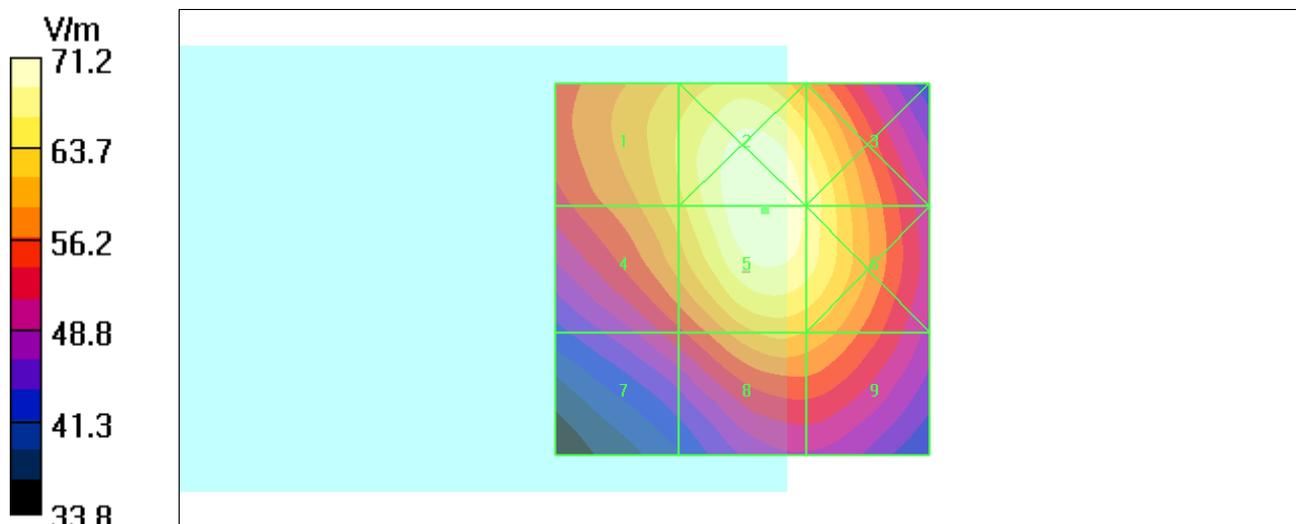Maximum value of peak Total field = 58.2 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 59.6 V/m; Power Drift = -0.115 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
50.5 M4	**58.2 M4**	**56.8 M4**
Grid 4	Grid 5	Grid 6
49.1 M4	**58.2 M4**	**56.9 M4**
Grid 7	Grid 8	Grid 9
41.6 M4	**50.6 M4**	**50.4 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch384+11b

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

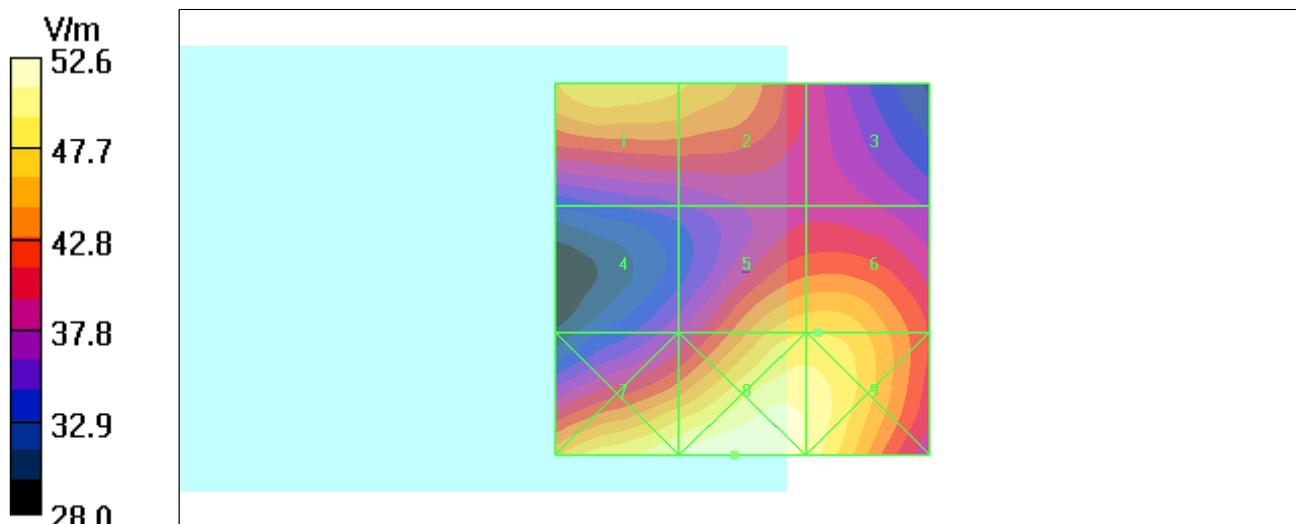Maximum value of peak Total field = 66.9 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 79.6 V/m; Power Drift = -0.121 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
57.0 M4	66.9 M4	65.8 M4
Grid 4	Grid 5	Grid 6
55.6 M4	66.9 M4	65.8 M4
Grid 7	Grid 8	Grid 9
46.9 M4	59.4 M4	59.4 M4

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch384+11g
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
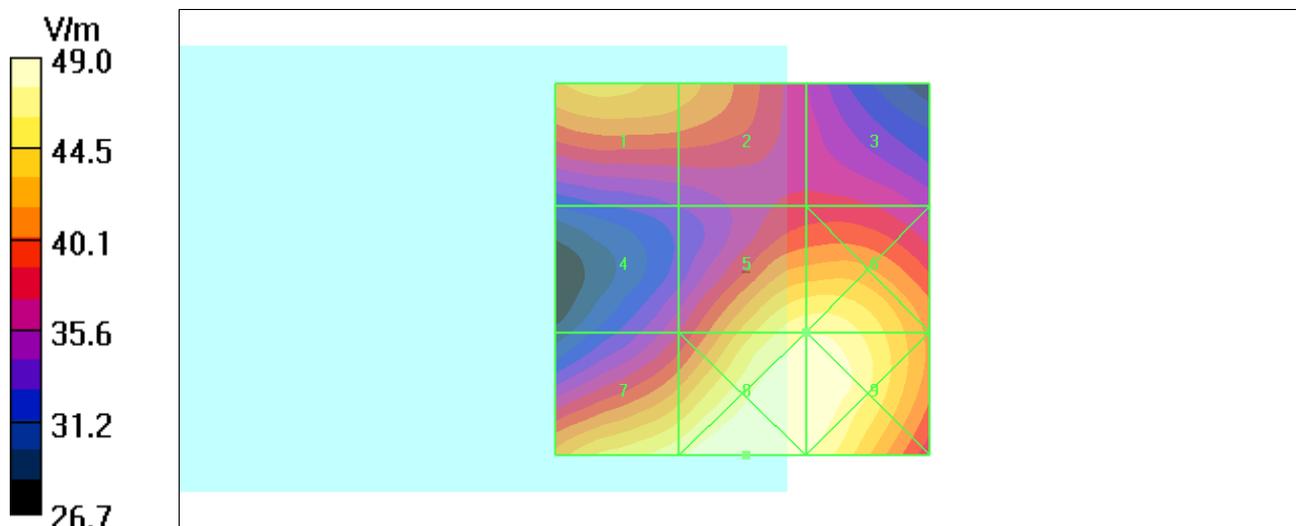Maximum value of peak Total field = 65.3 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 77.7 V/m; Power Drift = -0.134 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 56.3 M4	Grid 2 65.1 M4	Grid 3 64.2 M4
Grid 4 55.1 M4	Grid 5 65.3 M4	Grid 6 64.4 M4
Grid 7 47.0 M4	Grid 8 58.0 M4	Grid 9 57.9 M4

A - 5

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch384+BT

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

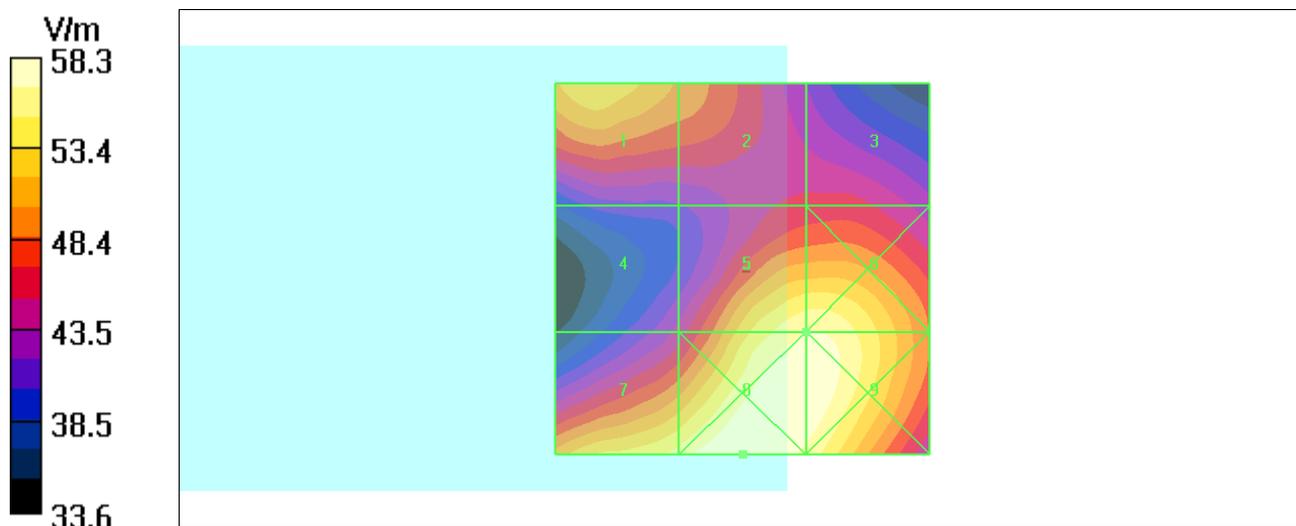Maximum value of peak Total field = 69.4 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 86.3 V/m; Power Drift = -0.041 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
63.1 M4	69.4 M4	66.5 M4
Grid 4	Grid 5	Grid 6
61.8 M4	69.4 M4	66.5 M4
Grid 7	Grid 8	Grid 9
52.9 M4	60.6 M4	59.8 M4

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch384 light off
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 71.2 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 87.1 V/m; Power Drift = -0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
64.1 M4	**71.2 M4**	**68.4 M4**
Grid 4	Grid 5	Grid 6
62.9 M4	**71.2 M4**	**68.4 M4**
Grid 7	Grid 8	Grid 9
53.2 M4	**62.0 M4**	**61.1 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch25

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1851.25 MHz

Communication System: CDMA ; Frequency: 1851.25 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

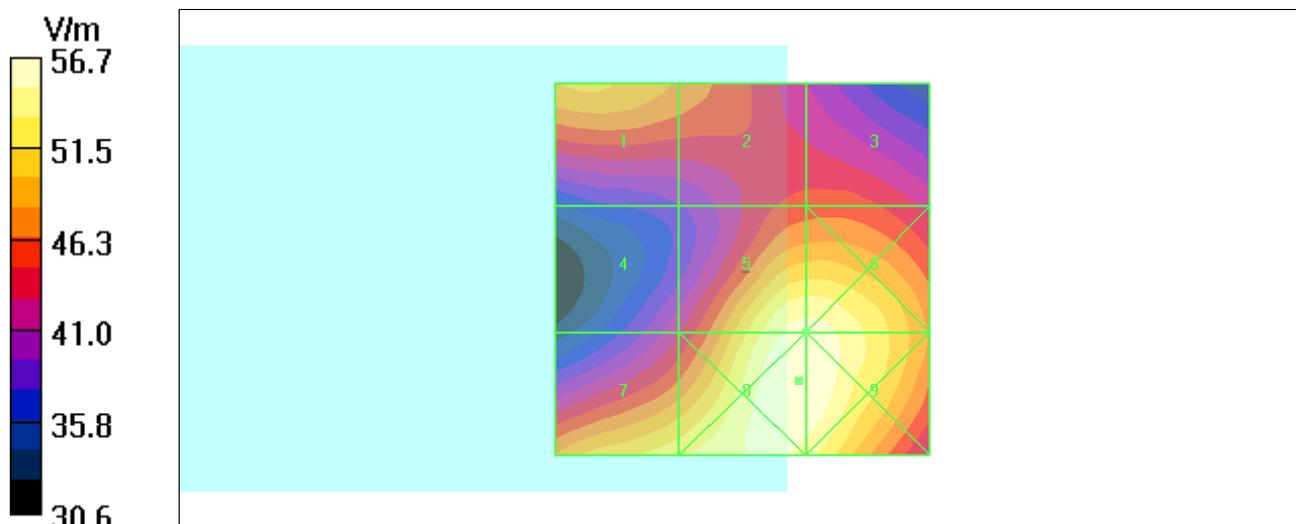Maximum value of peak Total field = 47.6 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 47.3 V/m; Power Drift = -0.046 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
47.4 M4	**46.3 M4**	**39.3 M4**
Grid 4	Grid 5	Grid 6
37.9 M4	**47.6 M4**	**47.6 M4**
Grid 7	Grid 8	Grid 9
51.0 M4	**52.6 M4**	**50.8 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch600
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1880 MHz
Communication System: CDMA ; Frequency: 1880 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
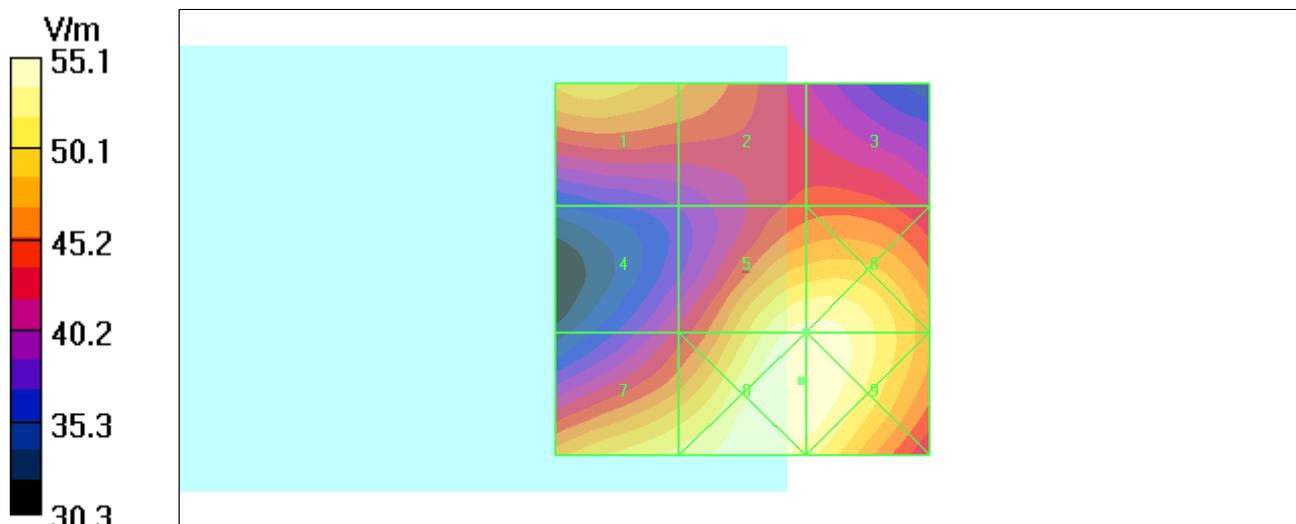Maximum value of peak Total field = 47.3 V/m
Probe Modulation Factor = 0.960
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 47.9 V/m; Power Drift = -0.034 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
43.6 M4	**42.2 M4**	**37.7 M4**
Grid 4	Grid 5	Grid 6
37.1 M4	**47.3 M4**	**47.4 M4**
Grid 7	Grid 8	Grid 9
47.2 M4	**49.0 M4**	**48.8 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch1175

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

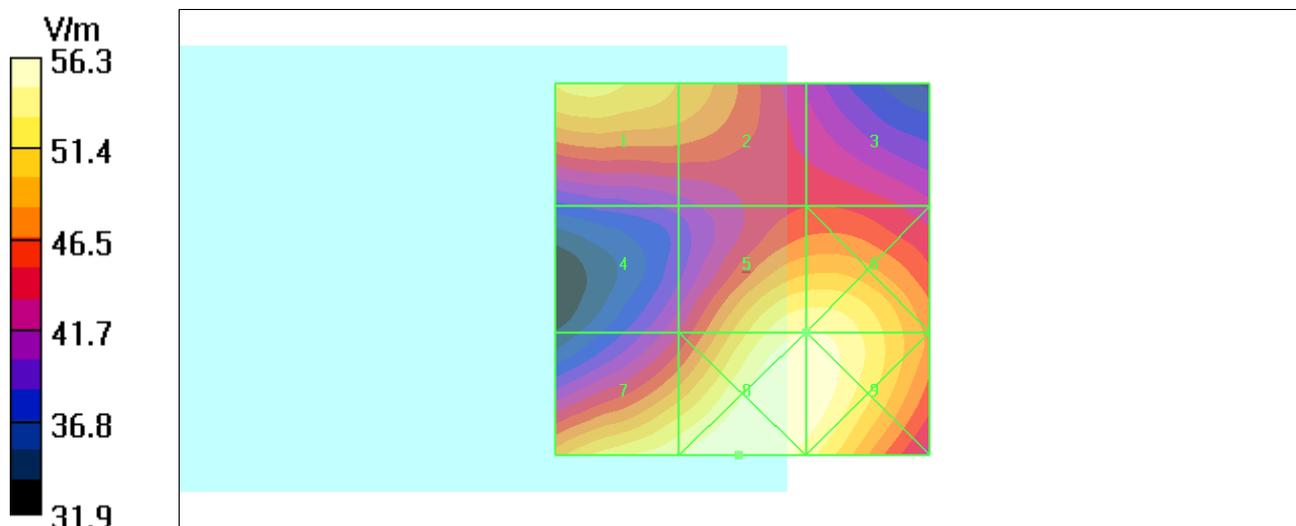Maximum value of peak Total field = 56.6 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 57.4 V/m; Power Drift = -0.232 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
52.7 M4	**49.9 M4**	**46.0 M4**
Grid 4	Grid 5	Grid 6
44.2 M4	**56.6 M4**	**56.7 M4**
Grid 7	Grid 8	Grid 9
55.7 M4	**58.3 M4**	**58.1 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch1175+11b

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1 Modulation type: OQPSK

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

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

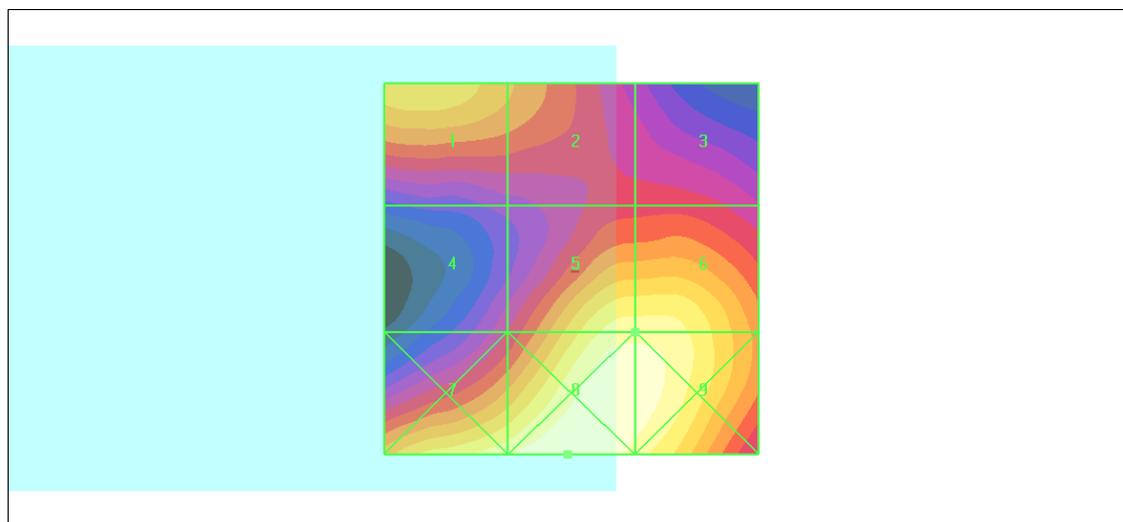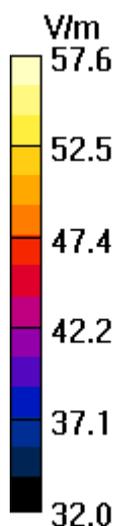Maximum value of peak Total field = 55.8 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 57.7 V/m; Power Drift = -0.218 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
50.2 M4	**47.8 M4**	**45.6 M4**
Grid 4	Grid 5	Grid 6
42.7 M4	**55.8 M4**	**55.8 M4**
Grid 7	Grid 8	Grid 9
52.9 M4	**56.7 M4**	**56.6 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch1175+11g
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz
Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
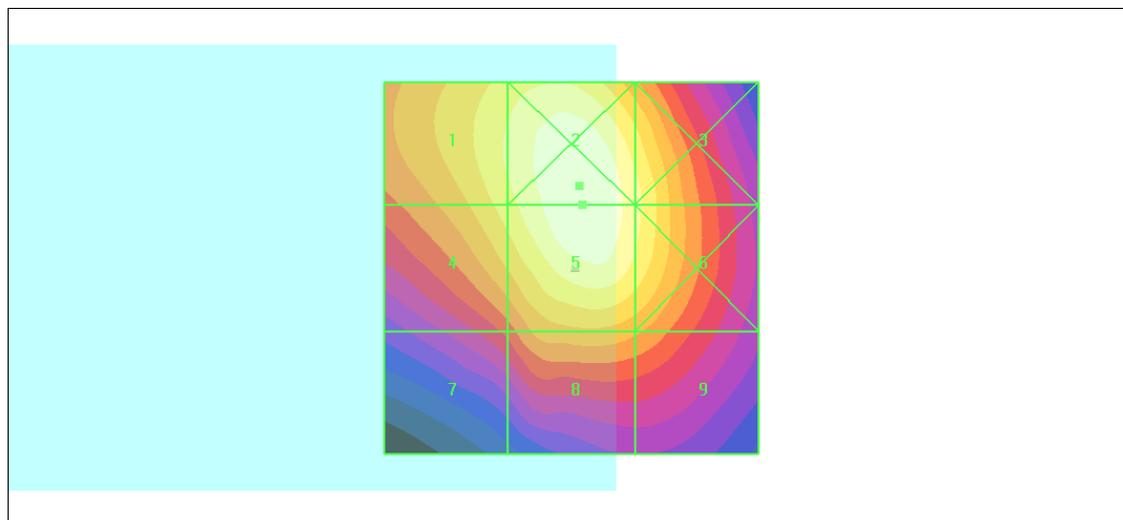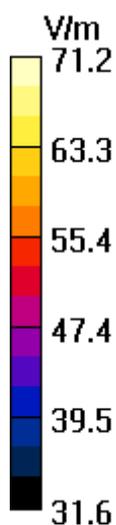Maximum value of peak Total field = 54.1 V/m
Probe Modulation Factor = 0.960
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 56.5 V/m; Power Drift = -0.114 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
49.6 M4	47.2 M4	44.7 M4
Grid 4	Grid 5	Grid 6
42.5 M4	54.1 M4	54.1 M4
Grid 7	Grid 8	Grid 9
52.4 M4	55.1 M4	55.1 M4

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch1175+BT

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

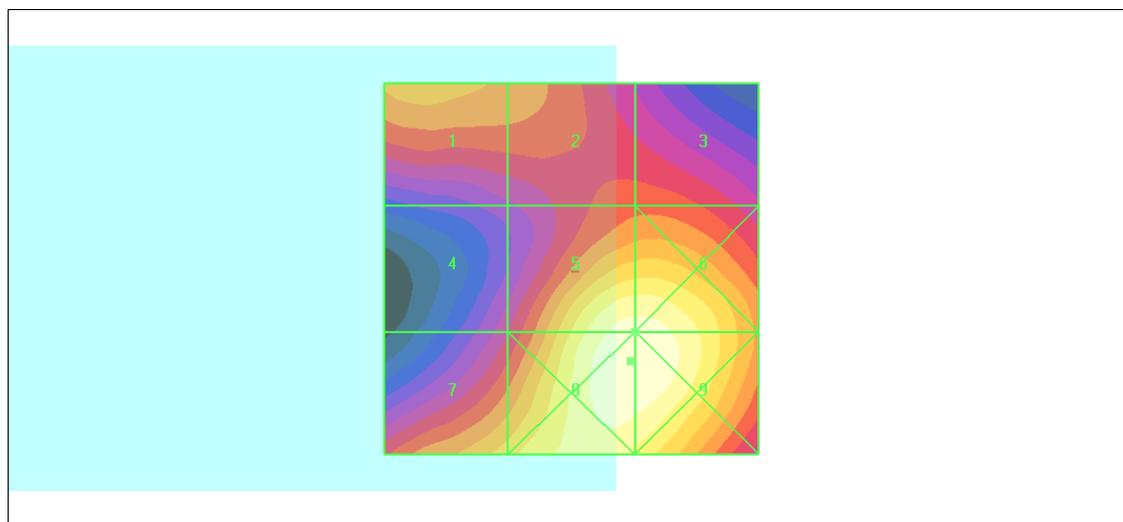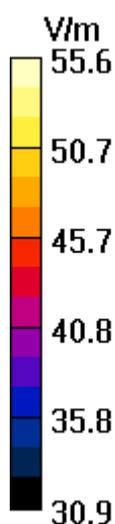Maximum value of peak Total field = 54.7 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 57.2 V/m; Power Drift = -0.027 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
52.1 M4	**49.7 M4**	**45.0 M4**
Grid 4	Grid 5	Grid 6
43.4 M4	**54.7 M4**	**54.7 M4**
Grid 7	Grid 8	Grid 9
54.5 M4	**56.3 M4**	**56.1 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch1175 Light off

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

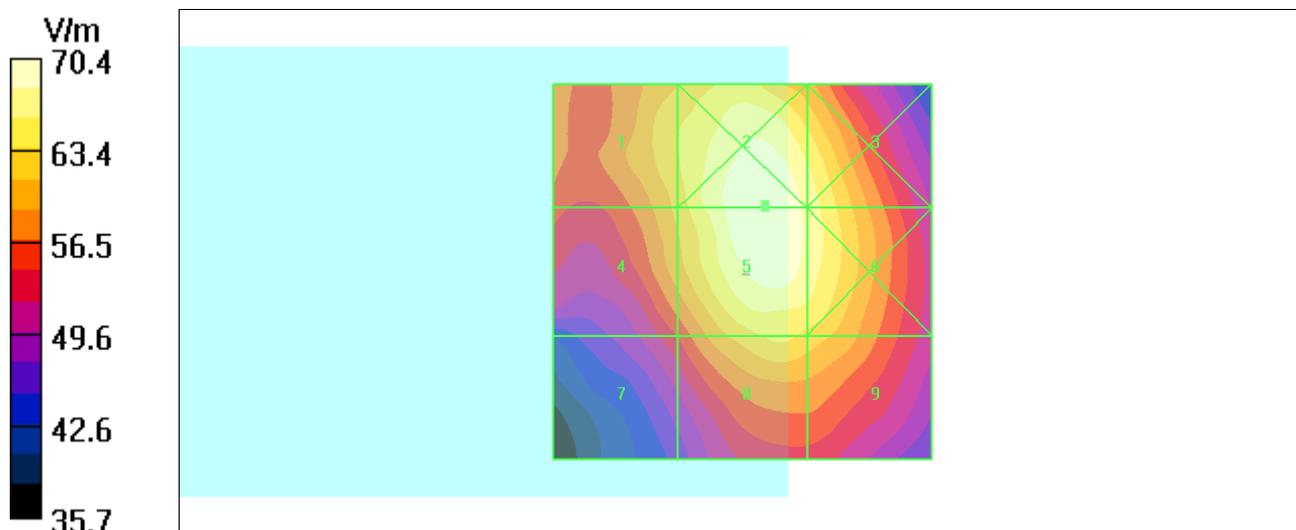Maximum value of peak Total field = 55.3 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 58.1 V/m; Power Drift = -0.011 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
52.5 M4	**49.4 M4**	**45.2 M4**
Grid 4	Grid 5	Grid 6
44.1 M4	**55.3 M4**	**55.3 M4**
Grid 7	Grid 8	Grid 9
55.7 M4	**57.6 M4**	**57.0 M4**

A - 14

Test Laboratory: Bureau Veritas ADT

E_CDMA850-Ch384 2nd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
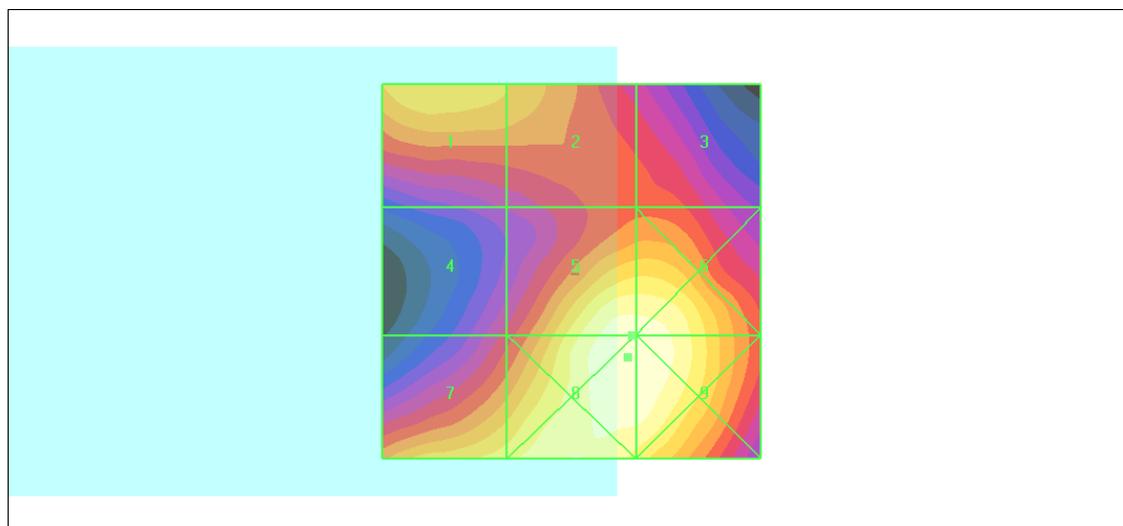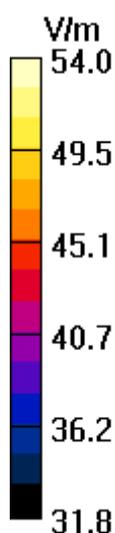Maximum value of peak Total field = 71.2 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 88.7 V/m; Power Drift = -0.055 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
66.4 M4	**71.2 M4**	**67.0 M4**
Grid 4	Grid 5	Grid 6
64.8 M4	**71.2 M4**	**67.0 M4**
Grid 7	Grid 8	Grid 9
53.9 M4	**60.3 M4**	**58.6 M4**

A - 15

Test Laboratory: Bureau Veritas ADT

E_CDMA1900-Ch1175 2nd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);
 DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
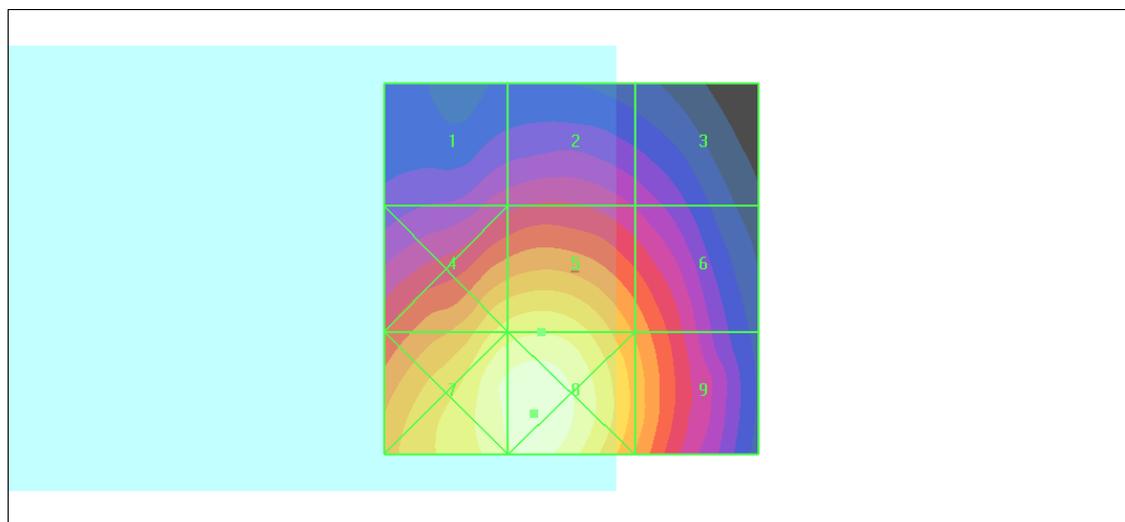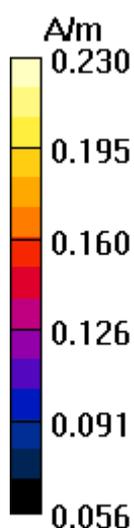Maximum value of peak Total field = 54.9 V/m
Probe Modulation Factor = 0.960
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 56.5 V/m; Power Drift = -0.051 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
48.3 M4	**47.0 M4**	**45.3 M4**
Grid 4	Grid 5	Grid 6
42.5 M4	**54.9 M4**	**54.9 M4**
Grid 7	Grid 8	Grid 9
50.1 M4	**55.6 M4**	**55.6 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA850_Ch384 3rd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
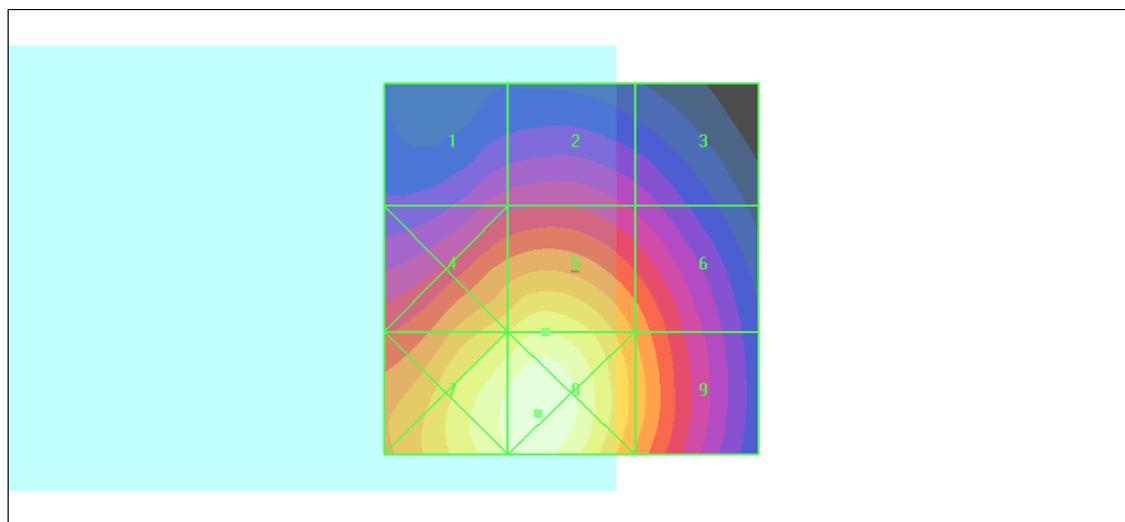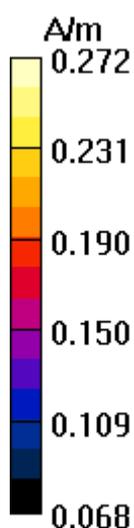Maximum value of peak Total field = 70.4 V/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 87.5 V/m; Power Drift = -0.017 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 63.4 M4	Grid 2 70.4 M4	Grid 3 67.4 M4
Grid 4 61.9 M4	Grid 5 70.4 M4	Grid 6 67.6 M4
Grid 7 54.5 M4	Grid 8 64.0 M4	Grid 9 62.8 M4

A - 17

Test Laboratory: Bureau Veritas ADT

E_CDMA1900_Ch1175 3rd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;

Phantom section: E Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

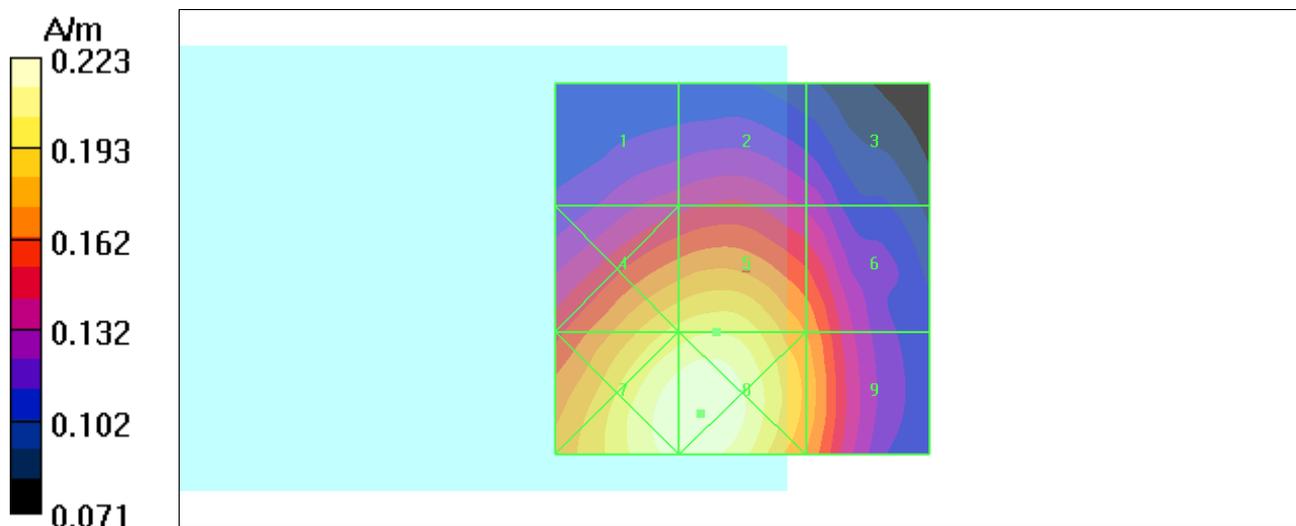Maximum value of peak Total field = 53.5 V/m

Probe Modulation Factor = 0.960

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 50.9 V/m; Power Drift = -0.352 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
49.5 M4	**48.1 M4**	**44.6 M4**
Grid 4	Grid 5	Grid 6
42.8 M4	**53.5 M4**	**53.5 M4**
Grid 7	Grid 8	Grid 9
50.5 M4	**54.0 M4**	**53.9 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_1013

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 824.7 MHz

Communication System: CDMA ; Frequency: 824.7 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

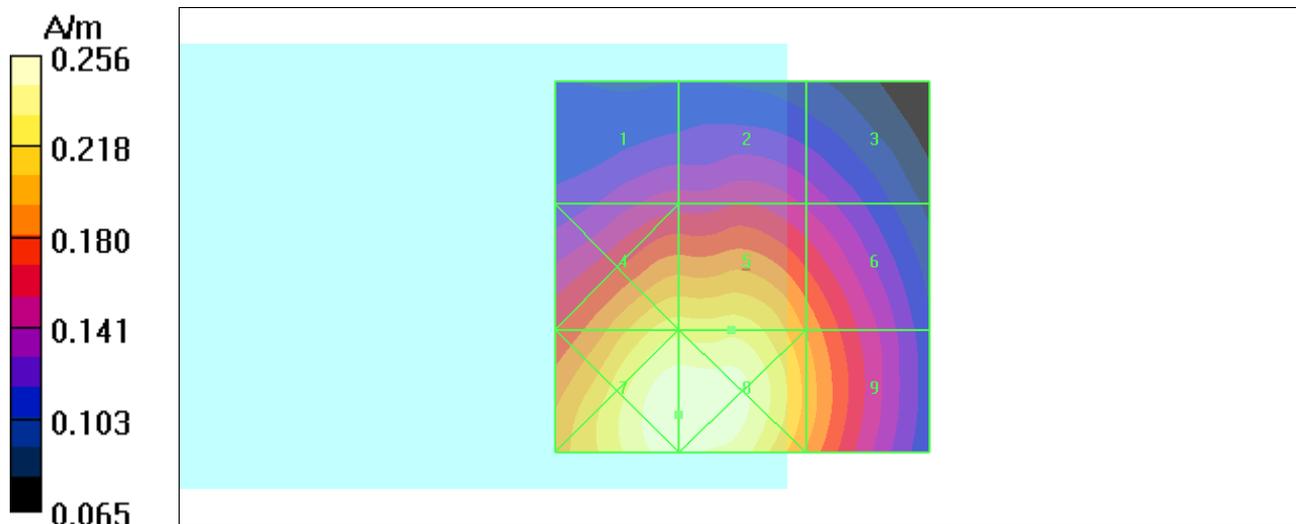Maximum value of peak Total field = 0.210 A/m

Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.235 A/m; Power Drift = -0.140 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.148 M4	**0.153 M4**	**0.142 M4**
Grid 4	Grid 5	Grid 6
0.202 M4	**0.210 M4**	**0.191 M4**
Grid 7	Grid 8	Grid 9
0.228 M4	**0.230 M4**	**0.200 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch384

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.247 A/m
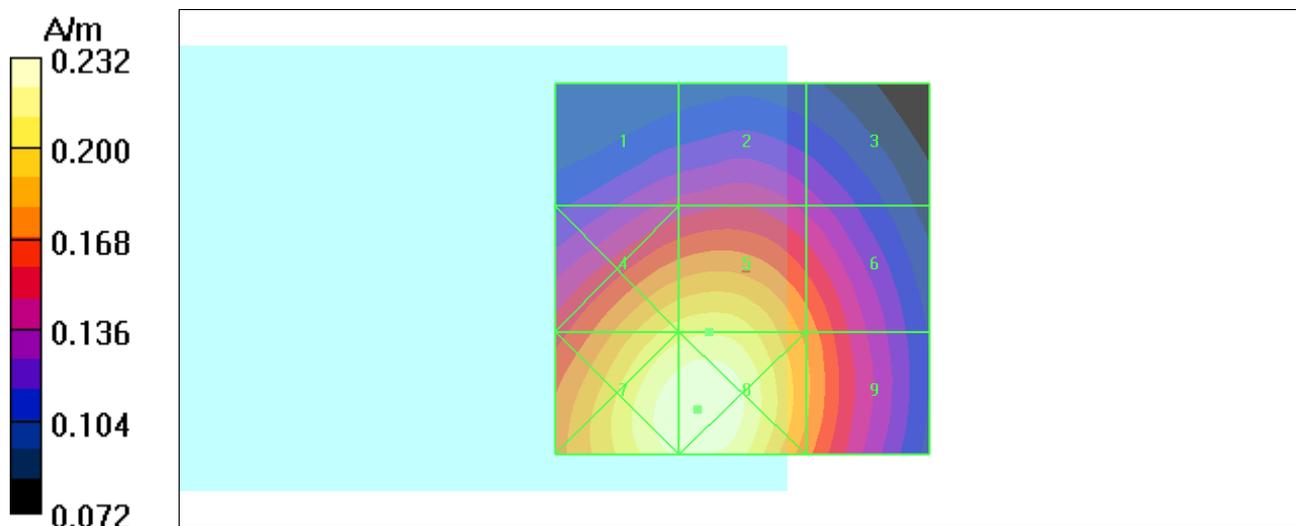
Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.278 A/m; Power Drift = -0.447 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.164 M4	**0.175 M4**	**0.165 M4**
Grid 4	Grid 5	Grid 6
0.235 M4	**0.247 M4**	**0.222 M4**
Grid 7	Grid 8	Grid 9
0.264 M4	**0.272 M4**	**0.232 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch777
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 848.3 MHz
Communication System: CDMA ; Frequency: 848.3 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);
 DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.202 A/m
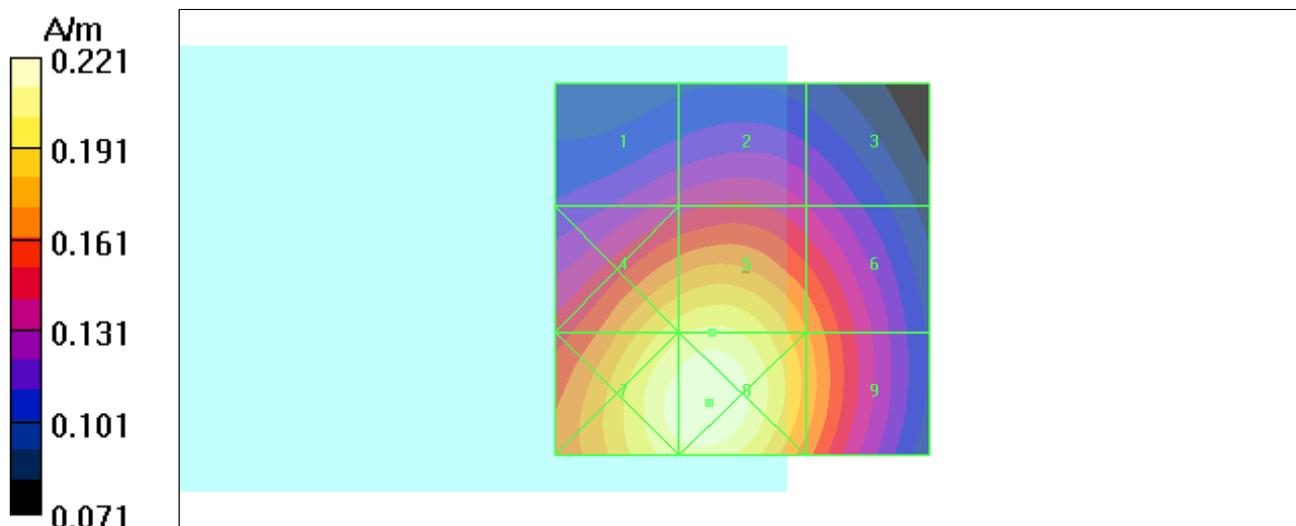Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.225 A/m; Power Drift = -0.156 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.139 M4	**0.145 M4**	**0.131 M4**
Grid 4	Grid 5	Grid 6
0.197 M4	**0.202 M4**	**0.172 M4**
Grid 7	Grid 8	Grid 9
0.220 M4	**0.223 M4**	**0.180 M4**

A - 3

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch384+11b

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.236 A/m
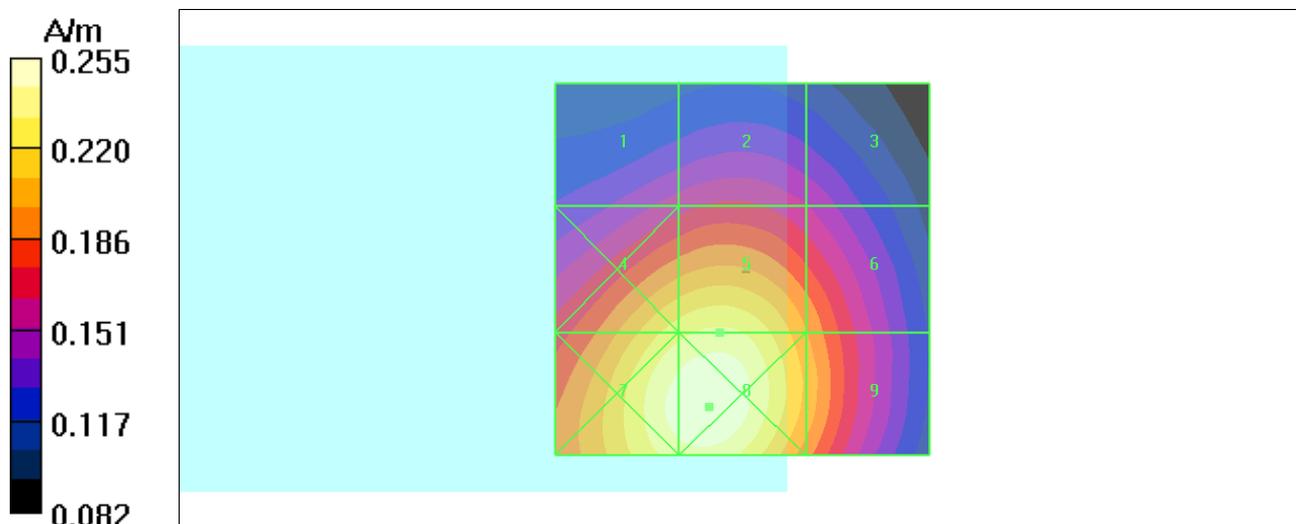
Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.266 A/m; Power Drift = -0.018 dB

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

Peak H-field in A/m

Grid 1 **0.160 M4**	Grid 2 **0.169 M4**	Grid 3 **0.157 M4**
Grid 4 **0.226 M4**	Grid 5 **0.236 M4**	Grid 6 **0.214 M4**
Grid 7 **0.250 M4**	Grid 8 **0.256 M4**	Grid 9 **0.224 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch384+11g
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);
 DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.210 A/m
Probe Modulation Factor = 0.950
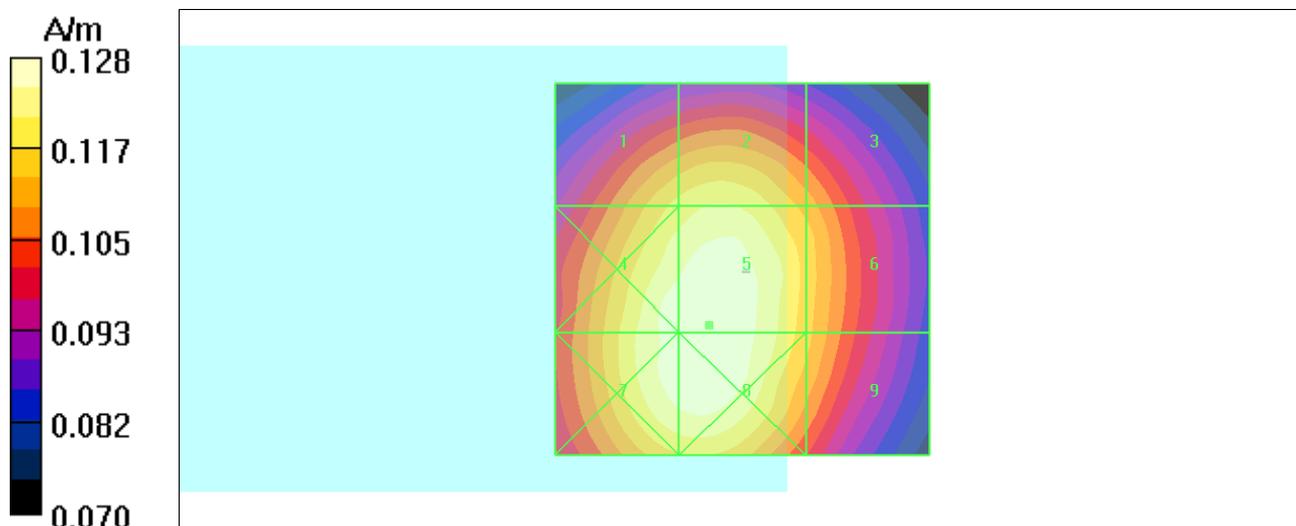Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.215 A/m; Power Drift = -0.171 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.141 M4	**0.147 M4**	**0.133 M4**
Grid 4	Grid 5	Grid 6
0.206 M4	**0.210 M4**	**0.175 M4**
Grid 7	Grid 8	Grid 9
0.230 M4	**0.232 M4**	**0.182 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch384+BT
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
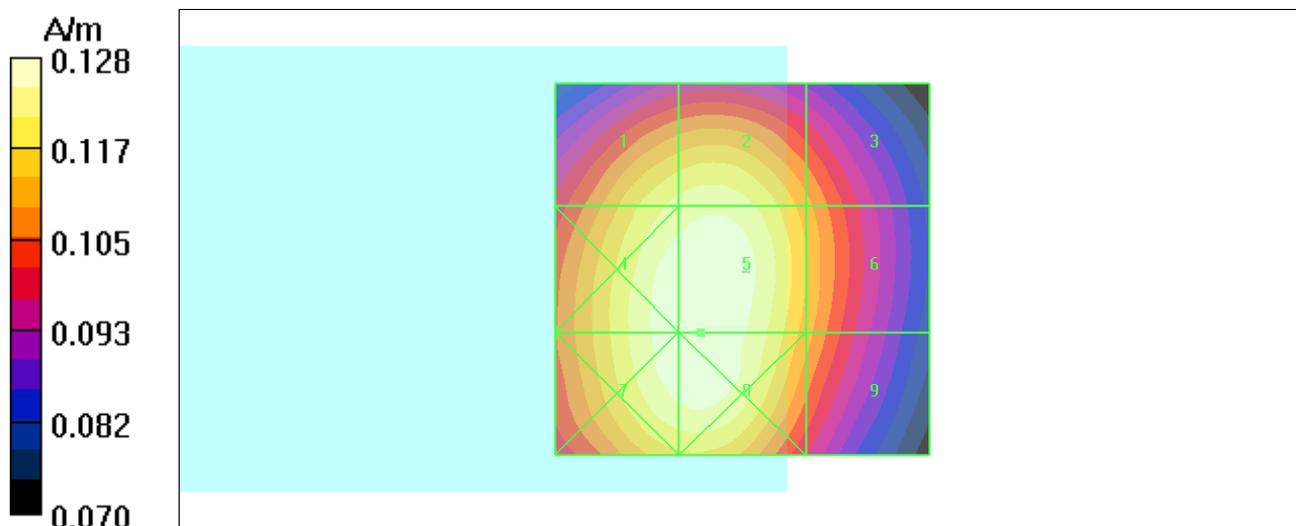Maximum value of peak Total field = 0.204 A/m
Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.231 A/m; Power Drift = -0.006 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.137 M4	**0.144 M4**	**0.132 M4**
Grid 4	Grid 5	Grid 6
0.198 M4	**0.204 M4**	**0.172 M4**
Grid 7	Grid 8	Grid 9
0.216 M4	**0.221 M4**	**0.178 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch384 Light Off
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz
Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.235 A/m
Probe Modulation Factor = 0.950
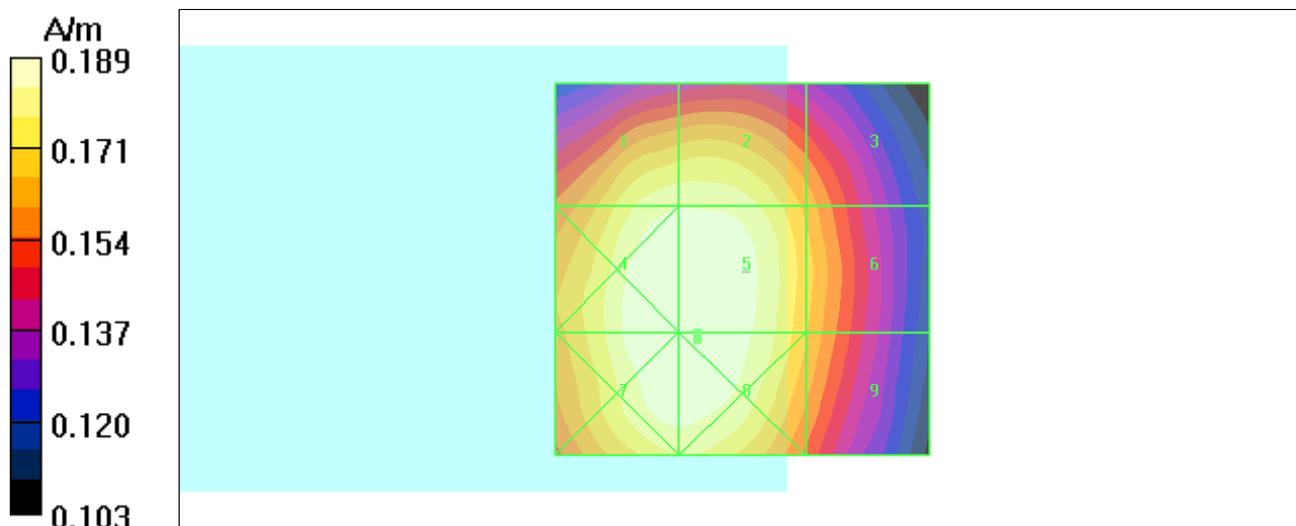Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.231 A/m; Power Drift = -0.051 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.158 M4	**0.166 M4**	**0.152 M4**
Grid 4	Grid 5	Grid 6
0.228 M4	**0.235 M4**	**0.198 M4**
Grid 7	Grid 8	Grid 9
0.249 M4	**0.255 M4**	**0.207 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch25

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1851.25 MHz

Communication System: CDMA ; Frequency: 1851.25 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

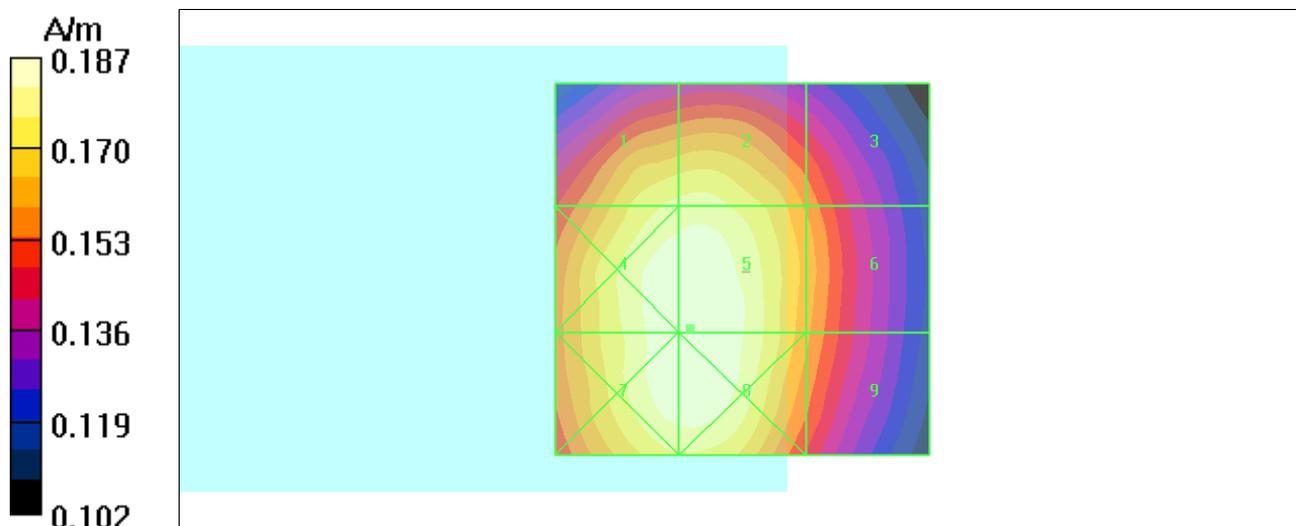Maximum value of peak Total field = 0.134 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.158 A/m; Power Drift = -0.014 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.122 M4	**0.125 M4**	**0.114 M4**
Grid 4	Grid 5	Grid 6
0.132 M4	**0.134 M4**	**0.119 M4**
Grid 7	Grid 8	Grid 9
0.133 M4	**0.134 M4**	**0.117 M4**

A - 8

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch600
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1880 MHz
Communication System: CDMA ; Frequency: 1880 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
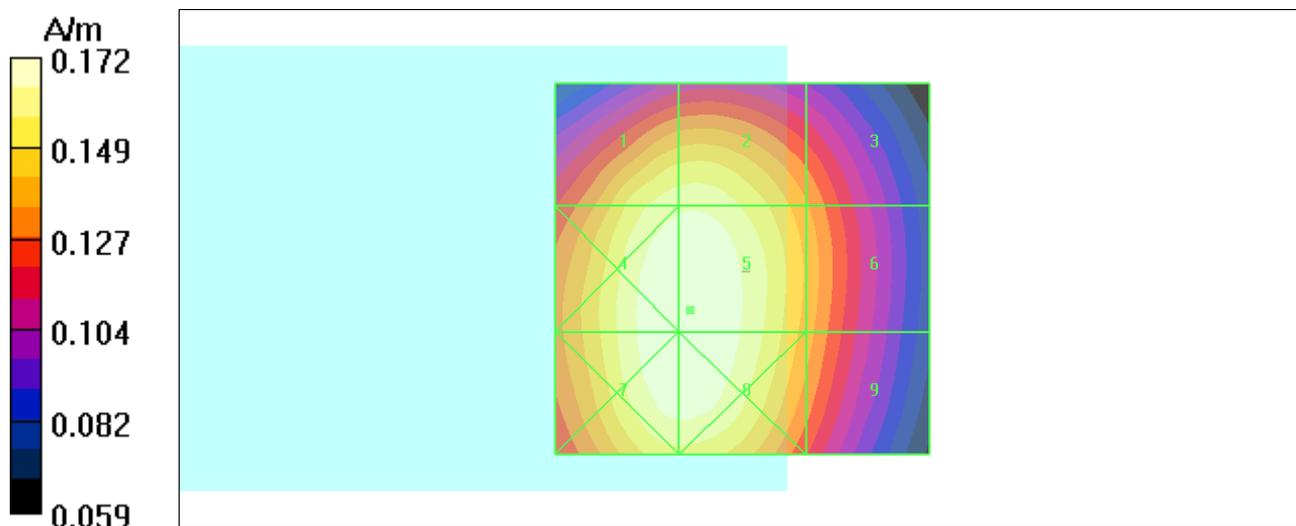Maximum value of peak Total field = 0.128 A/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.153 A/m; Power Drift = -0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.122 M4	**0.124 M4**	**0.111 M4**
Grid 4	Grid 5	Grid 6
0.128 M4	**0.128 M4**	**0.113 M4**
Grid 7	Grid 8	Grid 9
0.128 M4	**0.128 M4**	**0.111 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch1175

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

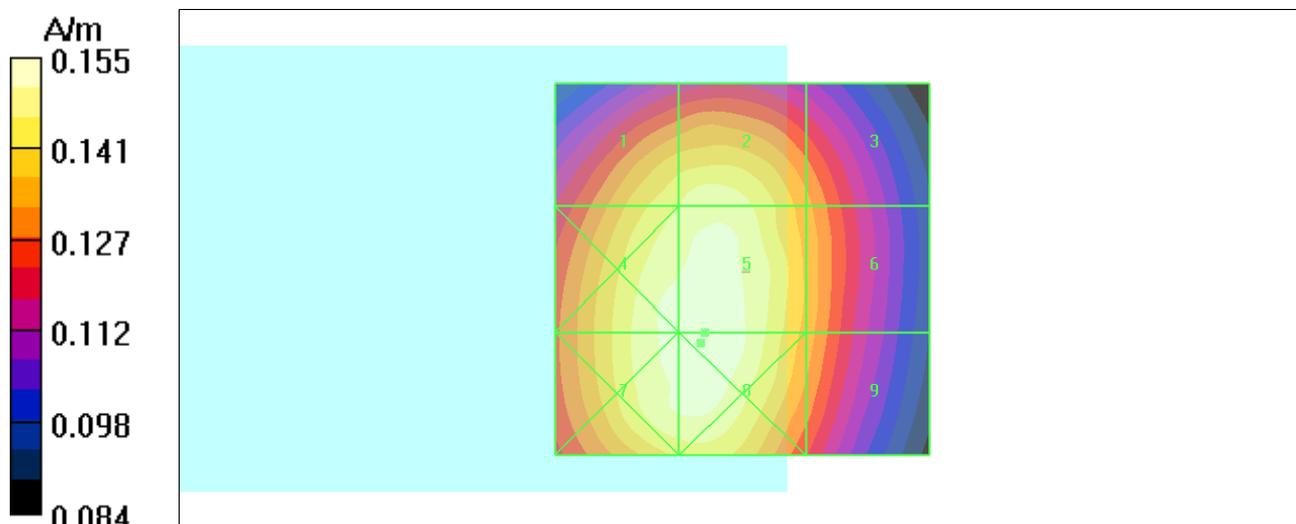Maximum value of peak Total field = 0.188 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.233 A/m; Power Drift = -0.375 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.182 M4	**0.182 M4**	**0.164 M4**
Grid 4	Grid 5	Grid 6
0.188 M4	**0.188 M4**	**0.169 M4**
Grid 7	Grid 8	Grid 9
0.189 M4	**0.189 M4**	**0.166 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch1175+11b

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm
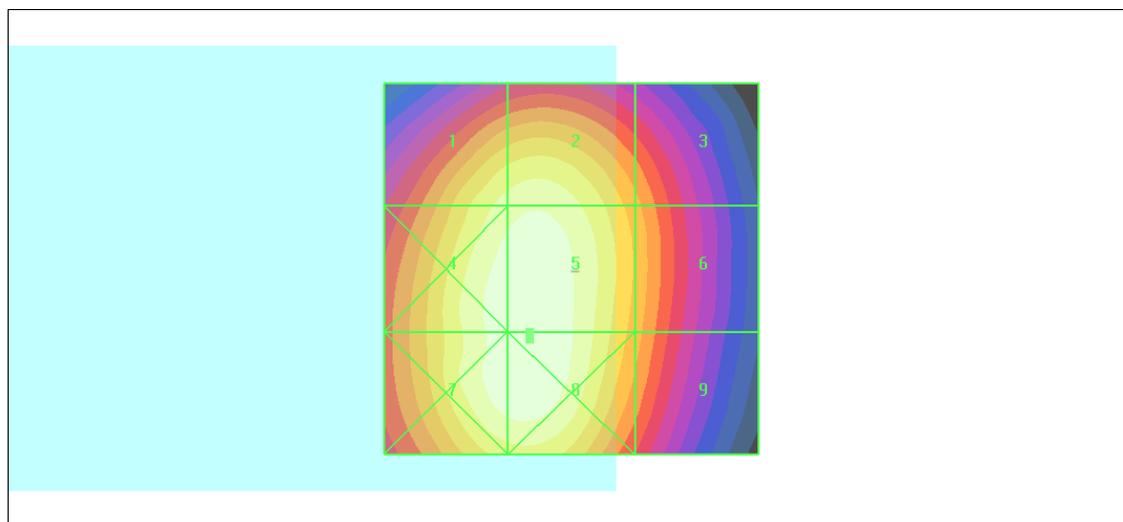Maximum value of peak Total field = 0.180 A/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.225 A/m; Power Drift = -0.031 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.171 M4	**0.172 M4**	**0.151 M4**
Grid 4	Grid 5	Grid 6
0.180 M4	**0.180 M4**	**0.156 M4**
Grid 7	Grid 8	Grid 9
0.180 M4	**0.180 M4**	**0.154 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch1175+11g

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.172 A/m
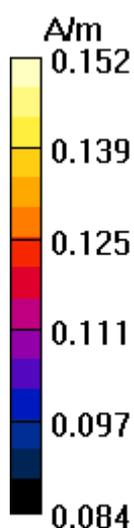
Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.223 A/m; Power Drift = -0.056 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.166 M4	**0.166 M4**	**0.147 M4**
Grid 4	Grid 5	Grid 6
0.172 M4	**0.172 M4**	**0.151 M4**
Grid 7	Grid 8	Grid 9
0.172 M4	**0.172 M4**	**0.149 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900-Ch1175+BT

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

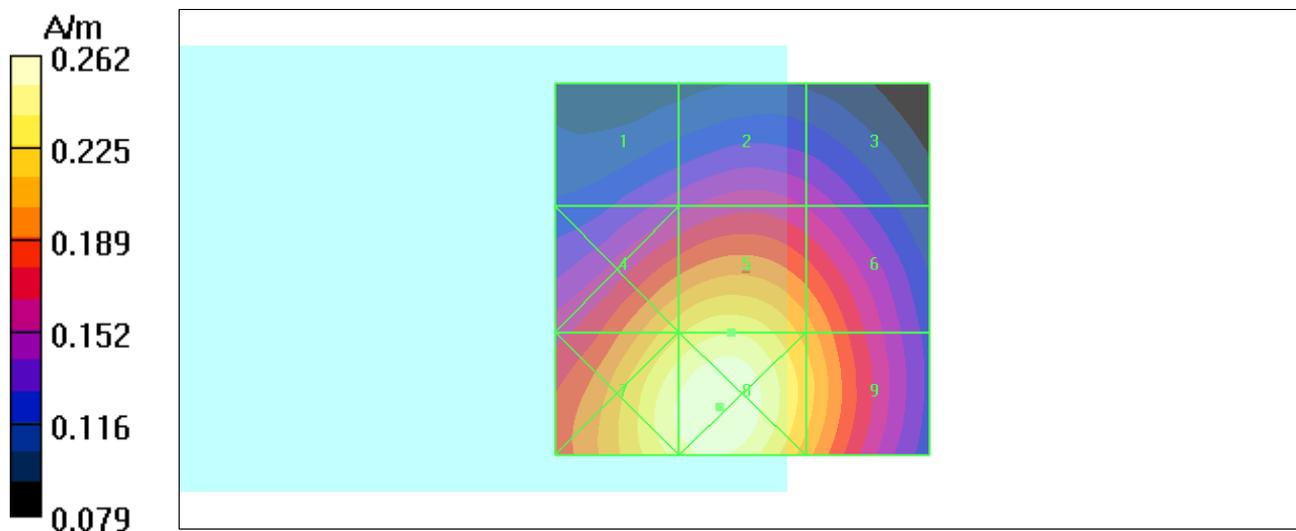Maximum value of peak Total field = 0.155 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.184 A/m; Power Drift = -0.065 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.146 M4	**0.149 M4**	**0.133 M4**
Grid 4	Grid 5	Grid 6
0.153 M4	**0.155 M4**	**0.135 M4**
Grid 7	Grid 8	Grid 9
0.153 M4	**0.155 M4**	**0.134 M4**

A - 13

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch1175 Light off

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

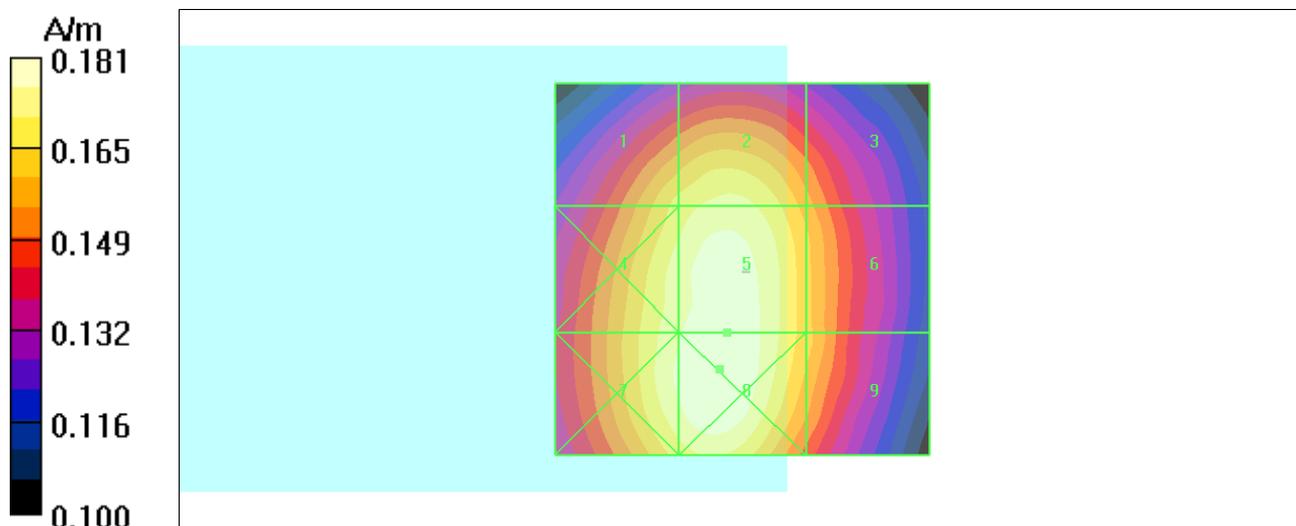Maximum value of peak Total field = 0.152 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.181 A/m; Power Drift = -0.022 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.146 M4	**0.148 M4**	**0.131 M4**
Grid 4	Grid 5	Grid 6
0.151 M4	**0.152 M4**	**0.134 M4**
Grid 7	Grid 8	Grid 9
0.151 M4	**0.152 M4**	**0.132 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850-Ch384 2nd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device-light on Ch384/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
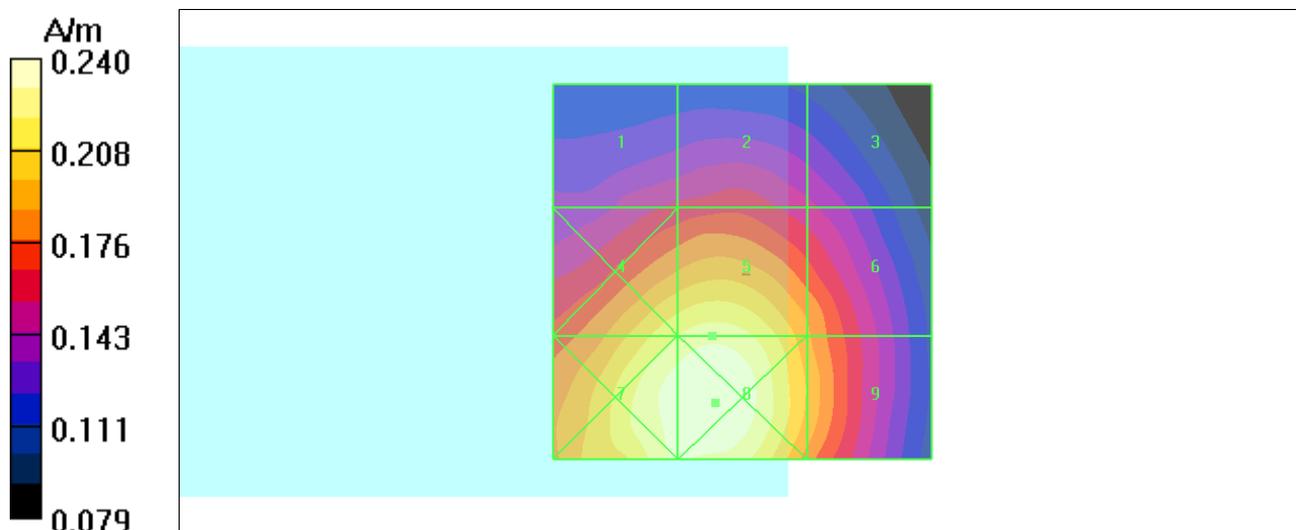Maximum value of peak Total field = 0.239 A/m
Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.267 A/m; Power Drift = -0.026 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 **0.150 M4**	Grid 2 **0.163 M4**	Grid 3 **0.153 M4**
Grid 4 **0.225 M4**	Grid 5 **0.239 M4**	Grid 6 **0.210 M4**
Grid 7 **0.254 M4**	Grid 8 **0.262 M4**	Grid 9 **0.222 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900-Ch1175 2nd
DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);
 DASY4 Configuration:
- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
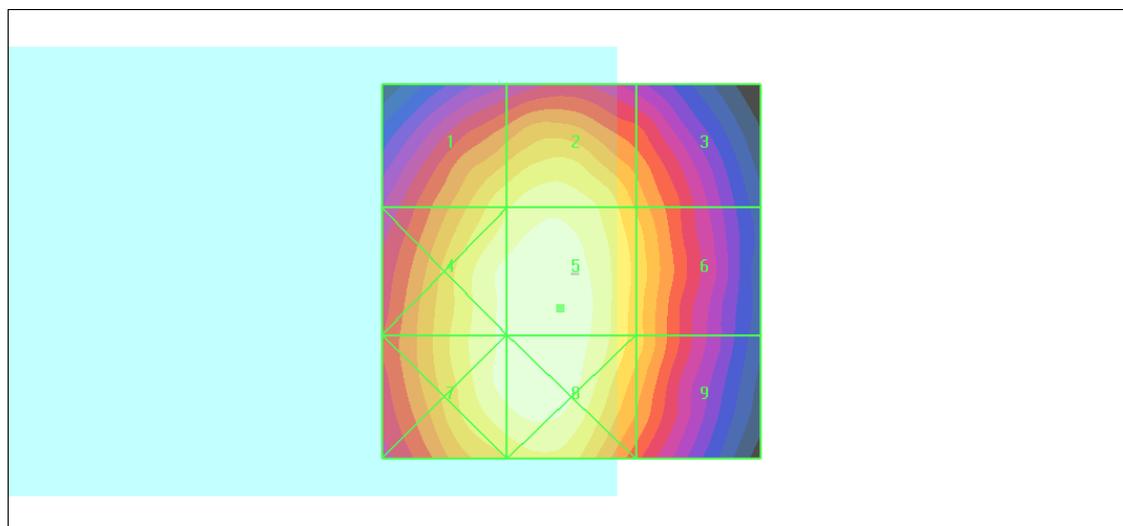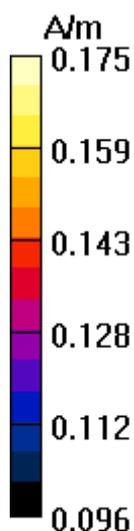Maximum value of peak Total field = 0.180 A/m
Probe Modulation Factor = 0.970
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.221 A/m; Power Drift = -0.067 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.167 M4	**0.172 M4**	**0.157 M4**
Grid 4	Grid 5	Grid 6
0.175 M4	**0.180 M4**	**0.162 M4**
Grid 7	Grid 8	Grid 9
0.177 M4	**0.181 M4**	**0.162 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850_Ch384 3rd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

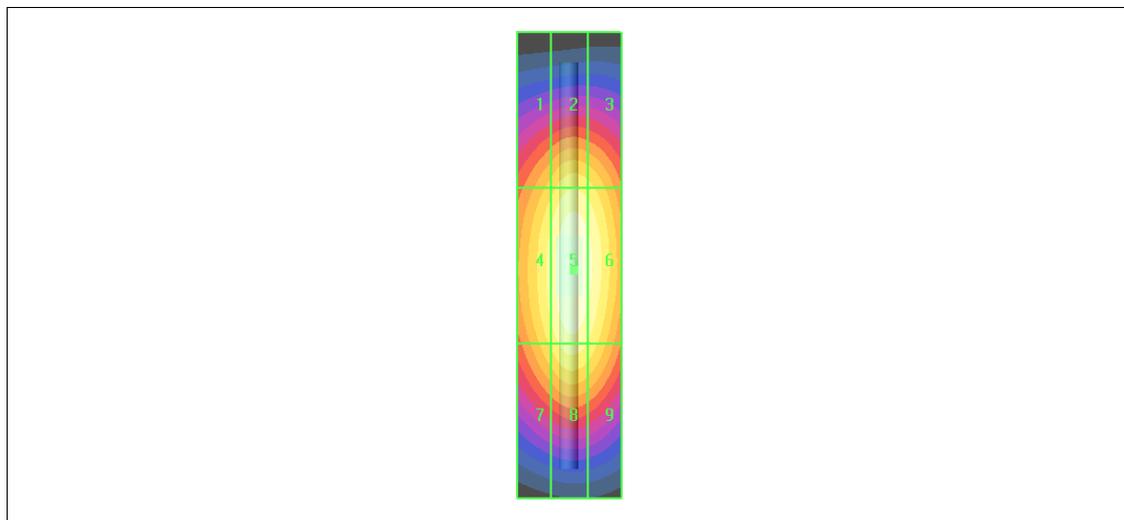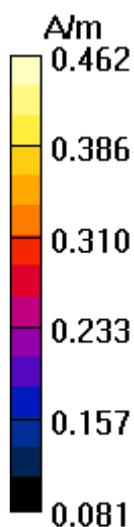Maximum value of peak Total field = 0.231 A/m

Probe Modulation Factor = 0.950

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.258 A/m; Power Drift = -0.244 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.162 M4	**0.168 M4**	**0.152 M4**
Grid 4	Grid 5	Grid 6
0.224 M4	**0.231 M4**	**0.194 M4**
Grid 7	Grid 8	Grid 9
0.239 M4	**0.240 M4**	**0.202 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900_Ch1175 3rd

DUT: Pocket PC Phone ; Type: RHOD500 ; Test Frequency: 1908.75 MHz

Communication System: CDMA ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;

Phantom section: H Device Section ;

Measurement Standard: DASY4 (High Precision Assessment);

 DASY4 Configuration:

- Probe: H3DV6 - SN6124 ;   ; Calibrated: 2009/1/20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn510; Calibrated: 2009/1/21

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

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device-Ch1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

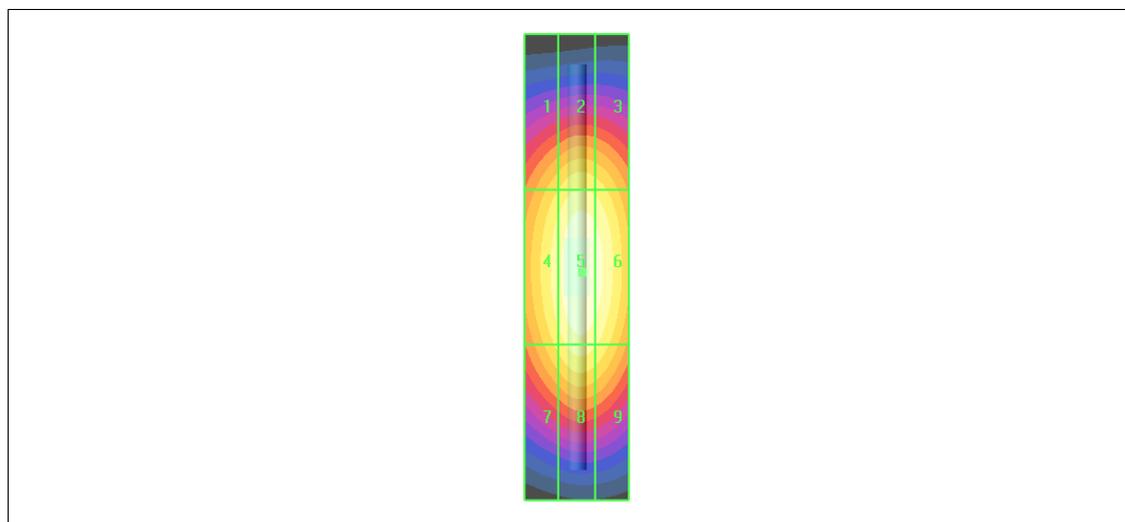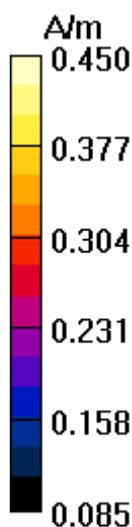Maximum value of peak Total field = 0.173 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.191 A/m; Power Drift = -0.028 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.162 M4	**0.166 M4**	**0.151 M4**
Grid 4	Grid 5	Grid 6
0.169 M4	**0.173 M4**	**0.156 M4**
Grid 7	Grid 8	Grid 9
0.170 M4	**0.175 M4**	**0.155 M4**

Test Laboratory: Bureau Veritas ADT

H_1880MHz (WD)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CDMA ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
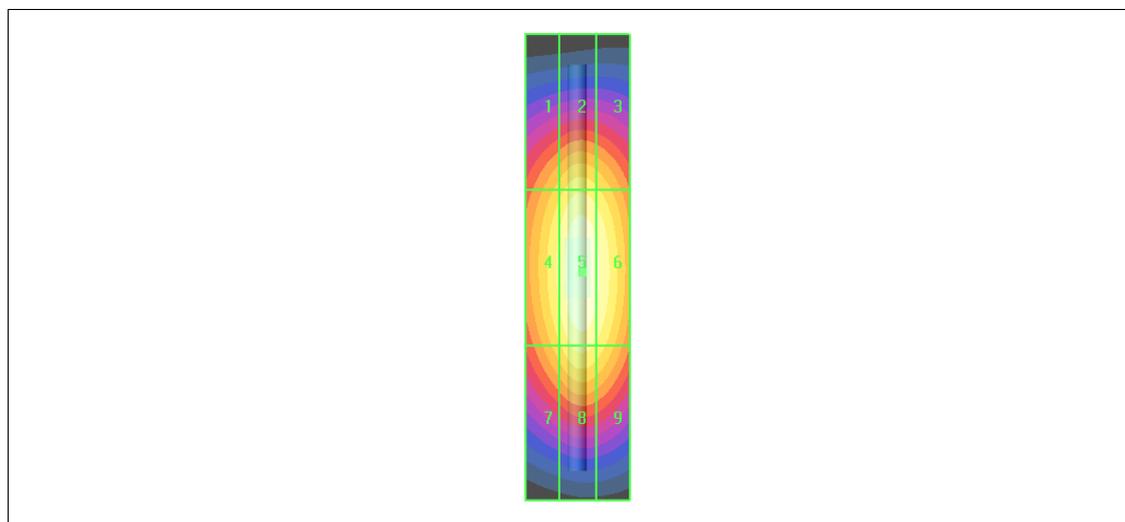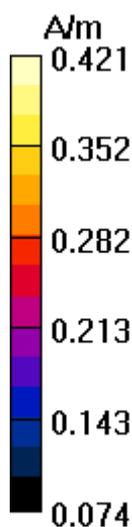Maximum value of peak Total field = 0.462 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.486 A/m; Power Drift = -0.043 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.374 M2	**0.410 M2**	**0.398 M2**
Grid 4	Grid 5	Grid 6
0.423 M2	**0.462 M2**	**0.447 M2**
Grid 7	Grid 8	Grid 9
0.392 M2	**0.428 M2**	**0.410 M2**

A - 1

Test Laboratory: Bureau Veritas ADT

H_1880MHz (CW)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
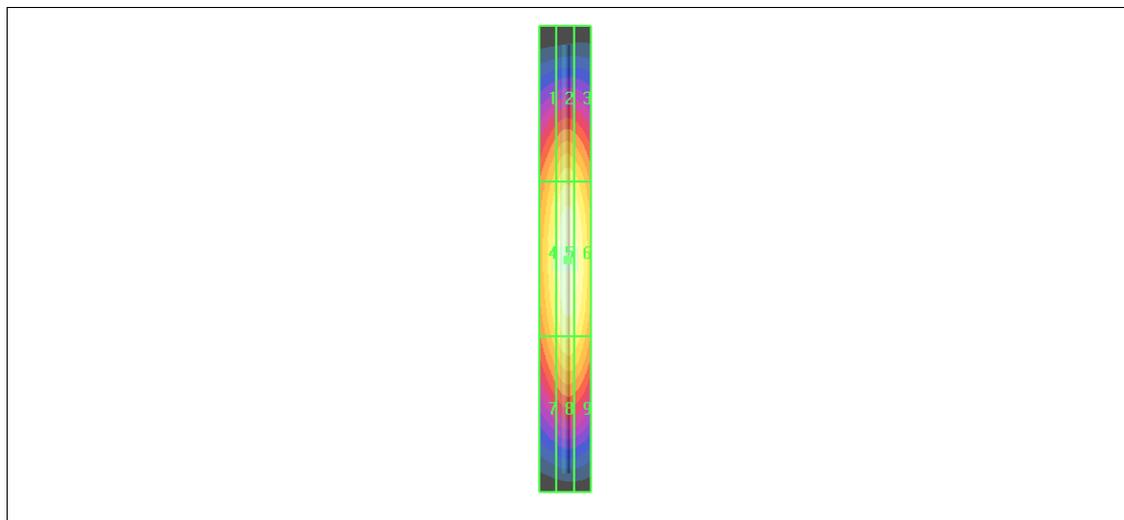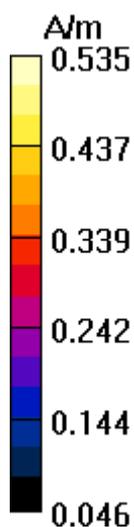Maximum value of peak Total field = 0.450 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.437 A/m; Power Drift = -0.039 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.377 M2	**0.402 M2**	**0.394 M2**
Grid 4	Grid 5	Grid 6
0.419 M2	**0.450 M2**	**0.438 M2**
Grid 7	Grid 8	Grid 9
0.386 M2	**0.415 M2**	**0.403 M2**

Test Laboratory: Bureau Veritas ADT

H_1880MHz (AM80%)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: AM ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.421 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.447 A/m; Power Drift = -0.024 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.341 M2	**0.371 M2**	**0.358 M2**
Grid 4	Grid 5	Grid 6
0.383 M2	**0.421 M2**	**0.406 M2**
Grid 7	Grid 8	Grid 9
0.348 M2	**0.384 M2**	**0.371 M2**

Test Laboratory: Bureau Veritas ADT

H_836.5MHz (WD)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 836.5 MHz

Communication System: CDMA ; Frequency: 836.5 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.535 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.567 A/m; Power Drift = -0.033 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.428 M4	**0.464 M4**	**0.452 M4**
Grid 4	Grid 5	Grid 6
0.489 M4	**0.535 M4**	**0.518 M4**
Grid 7	Grid 8	Grid 9
0.432 M4	**0.477 M4**	**0.465 M4**

A - 4

Test Laboratory: Bureau Veritas ADT

H_836.5MHz (CW)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 836.52 MHz

Communication System: CW ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
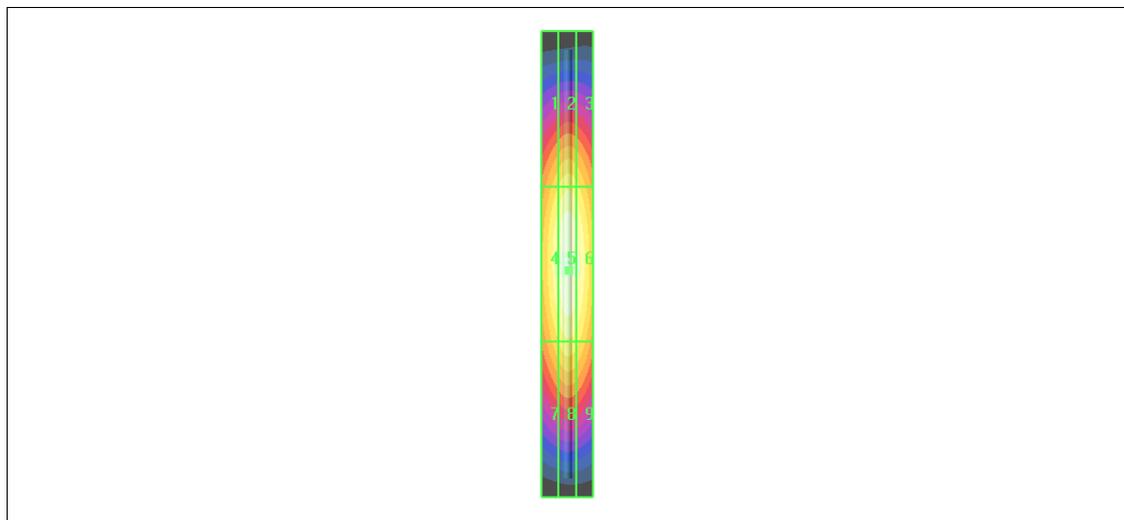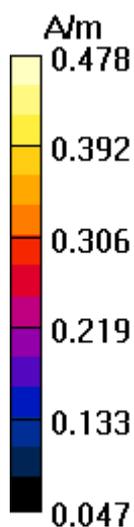Maximum value of peak Total field = 0.510 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.541 A/m; Power Drift = -0.006 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.413 M4	0.446 M4	0.436 M4
Grid 4	Grid 5	Grid 6
0.471 M4	0.510 M4	0.498 M4
Grid 7	Grid 8	Grid 9
0.418 M4	0.455 M4	0.444 M4

A - 5
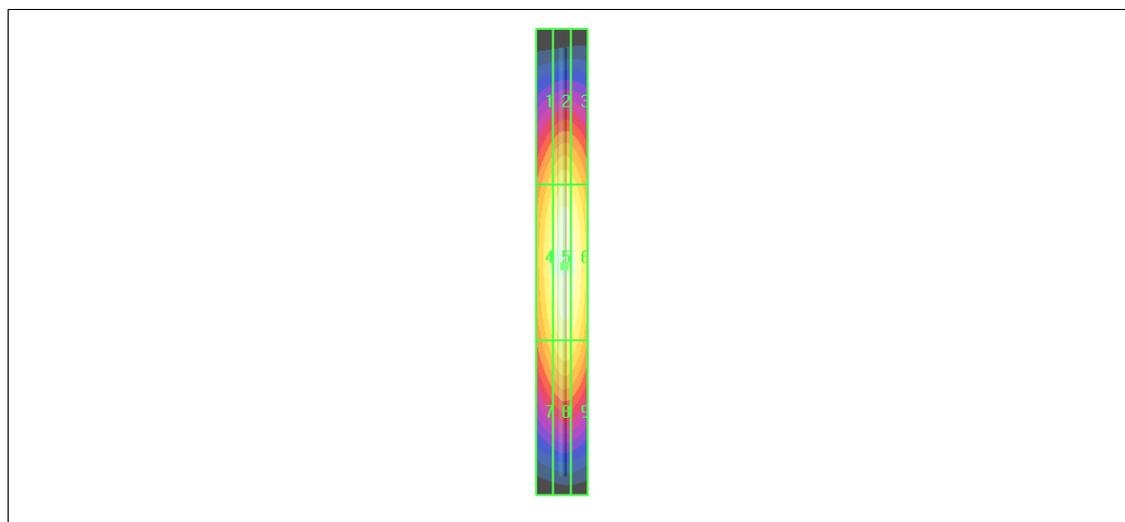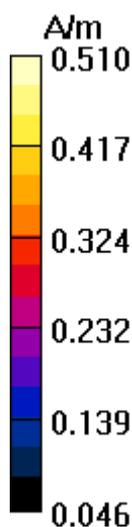
Test Laboratory: Bureau Veritas ADT

H_836.5MHz (AM80%)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 836.52 MHz

Communication System: AM ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: σ = 0 mho/m, $ε_r$ = 1; ρ = 1 kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.478 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.509 A/m; Power Drift = -0.019 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.390 M4	Grid 2 0.415 M4	Grid 3 0.401 M4
Grid 4 0.449 M4	Grid 5 0.478 M4	Grid 6 0.460 M4
Grid 7 0.390 M4	Grid 8 0.416 M4	Grid 9 0.402 M4

A - 6

Test Laboratory: Bureau Veritas ADT

E_1880MHz (WD)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CDMA ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
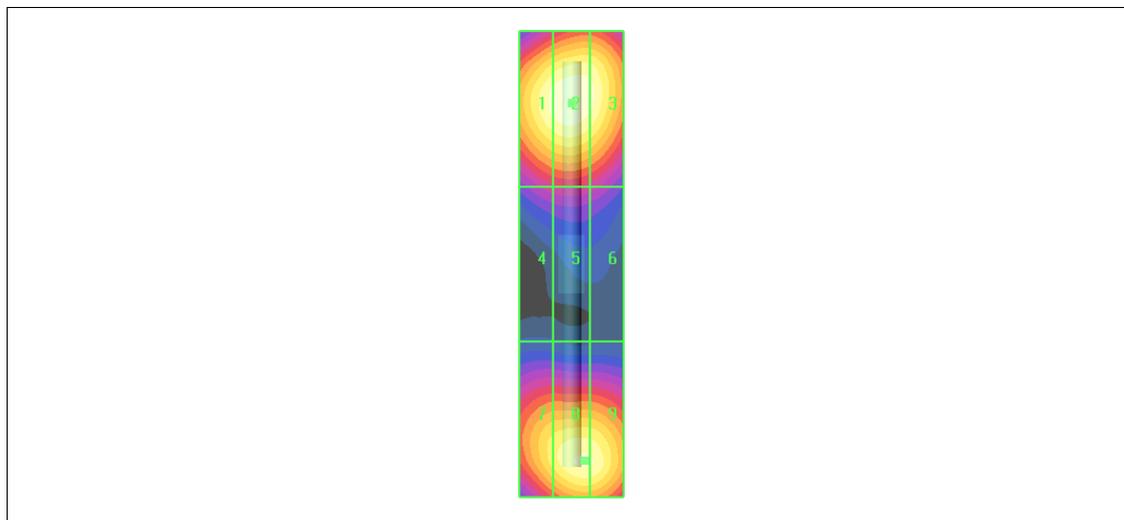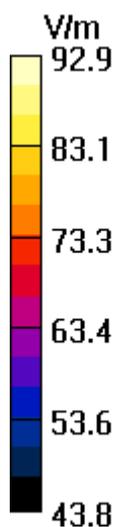Maximum value of peak Total field = 96.4 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 102.8 V/m; Power Drift = -0.052 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
95.5 M3	**96.4 M3**	**94.3 M3**
Grid 4	Grid 5	Grid 6
69.0 M3	**70.2 M3**	**68.3 M3**
Grid 7	Grid 8	Grid 9
89.1 M3	**93.4 M3**	**93.1 M3**

A - 7
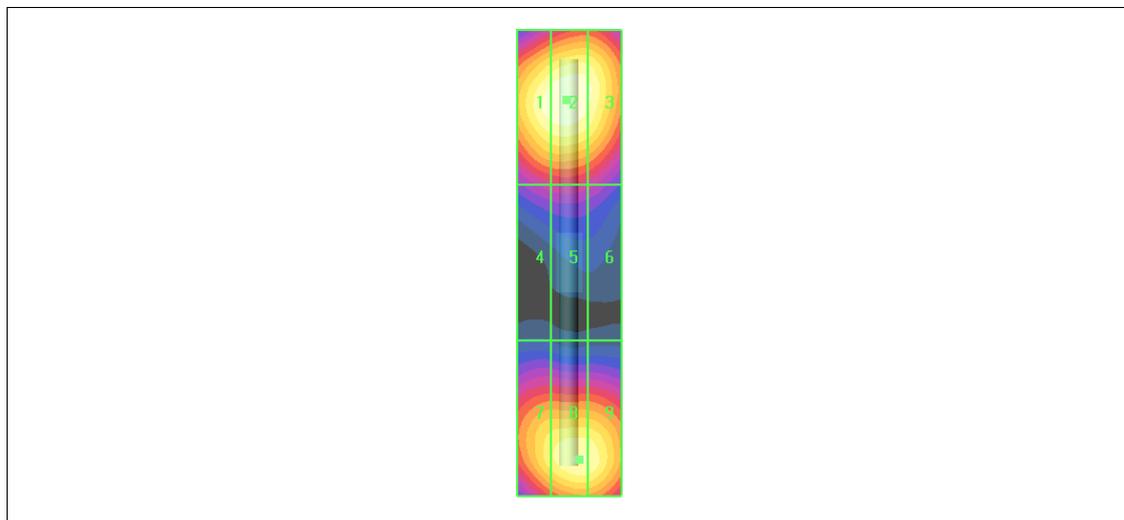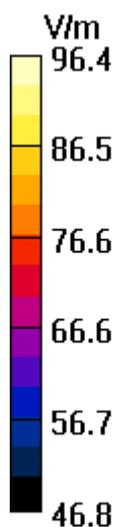
Test Laboratory: Bureau Veritas ADT

E_1880MHz (CW)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 92.9 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 98.7 V/m; Power Drift = -0.011 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
90.9 M3	**92.9 M3**	**90.8 M3**
Grid 4	Grid 5	Grid 6
66.2 M3	**67.3 M3**	**65.4 M3**
Grid 7	Grid 8	Grid 9
85.3 M3	**90.3 M3**	**90.0 M3**

Test Laboratory: Bureau Veritas ADT

E_1880MHz (AM80%)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: AM ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
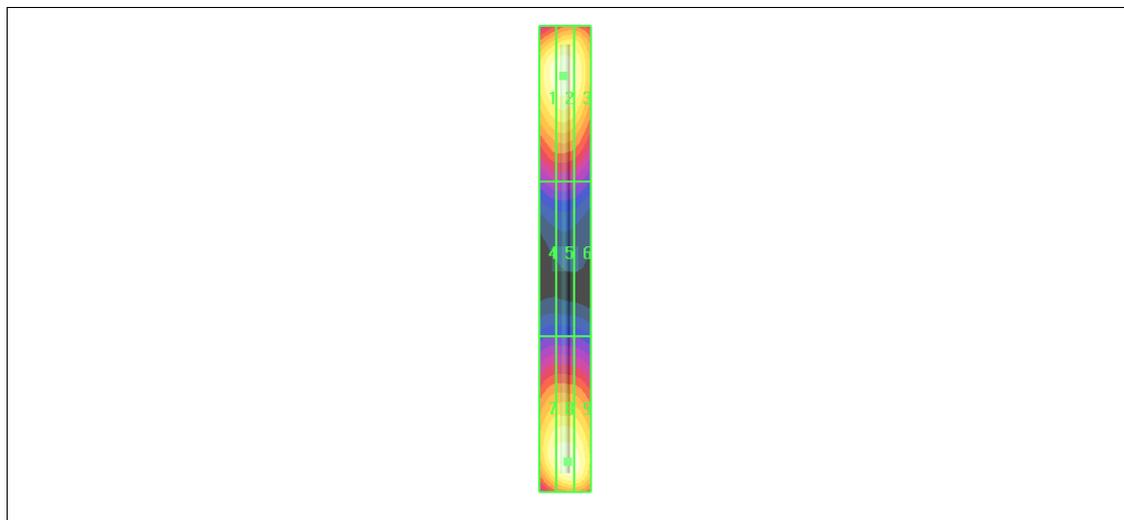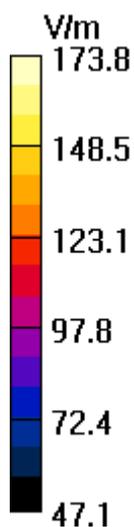Maximum value of peak Total field = 86.5 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 91.9 V/m; Power Drift = 0.010 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
85.1 M3	**86.5 M3**	**85.1 M3**
Grid 4	Grid 5	Grid 6
62.4 M4	**63.2 M3**	**61.7 M4**
Grid 7	Grid 8	Grid 9
79.9 M3	**84.5 M3**	**84.3 M3**
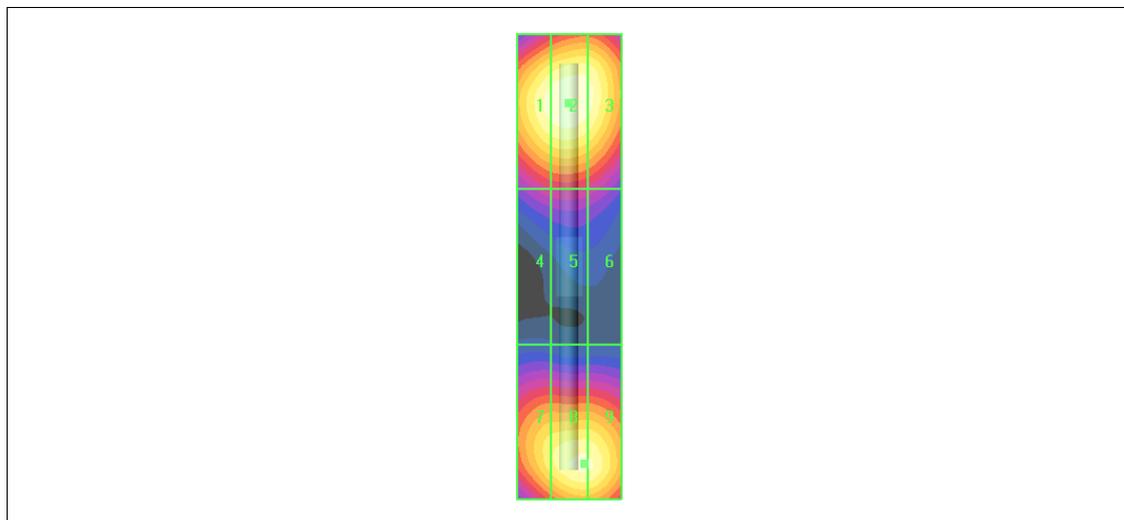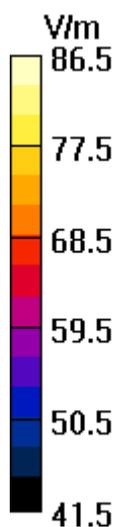
Test Laboratory: Bureau Veritas ADT

E_836.5MHz (WD)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 836.5 MHz

Communication System: CW ; Frequency: 835 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - measurement distance from the probe sensor center to CD835 Dipole =
10mm/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm
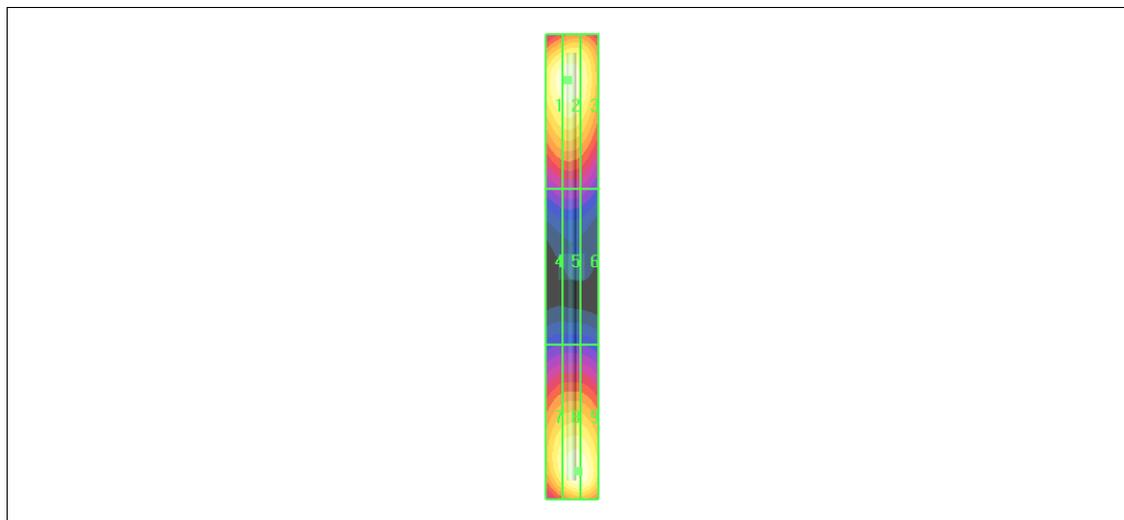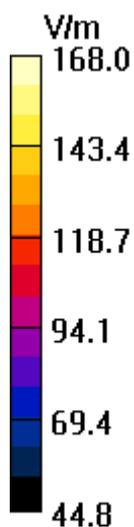Maximum value of peak Total field = 173.8 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 102.0 V/m; Power Drift = -0.199 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
171.1 M4	**173.8 M4**	**167.9 M4**
Grid 4	Grid 5	Grid 6
98.0 M4	**98.5 M4**	**95.2 M4**
Grid 7	Grid 8	Grid 9
168.1 M4	**173.0 M4**	**171.8 M4**

Test Laboratory: Bureau Veritas ADT

E_836.5MHz (CW)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 836.5 MHz

Communication System: CW ; Frequency: 836.5 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole =
10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
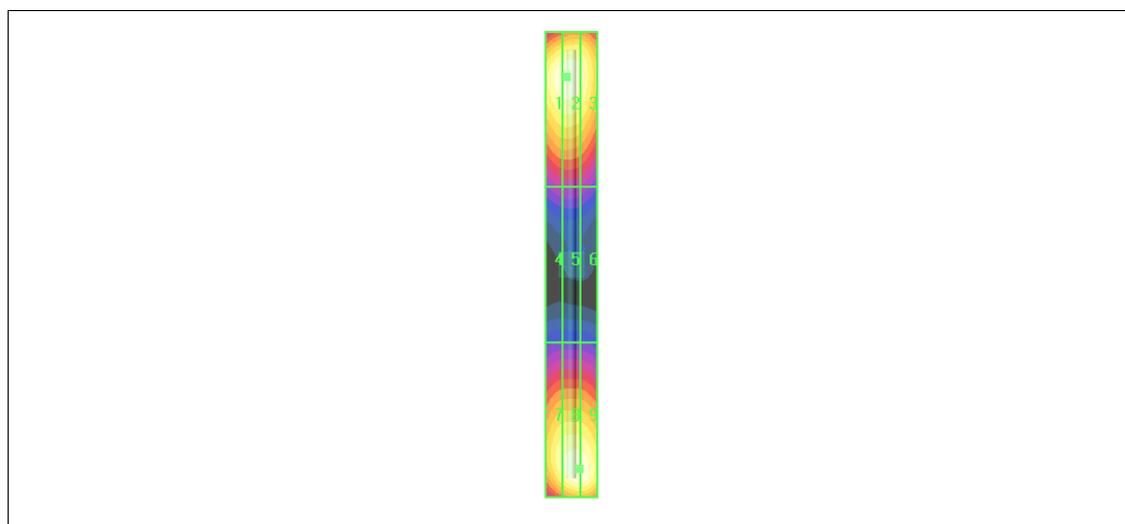Maximum value of peak Total field = 168.0 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 110.0 V/m; Power Drift = -0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
165.6 M4	**166.6 M4**	**160.6 M4**
Grid 4	Grid 5	Grid 6
93.7 M4	**94.9 M4**	**92.1 M4**
Grid 7	Grid 8	Grid 9
158.1 M4	**168.0 M4**	**167.4 M4**

Test Laboratory: Bureau Veritas ADT

E_836.5MHz (AM80%)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 836.5 MHz

Communication System: AM ; Frequency: 836.5 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
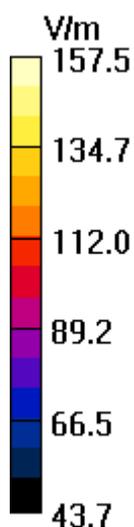Maximum value of peak Total field = 157.5 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 104.6 V/m; Power Drift = 0.002 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
155.9 M4	**156.2 M4**	**151.7 M4**
Grid 4	Grid 5	Grid 6
90.2 M4	**91.3 M4**	**88.8 M4**
Grid 7	Grid 8	Grid 9
149.4 M4	**157.5 M4**	**157.3 M4**

A - 12

Test Laboratory: Bureau Veritas ADT

H_835MHz (System Validation)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 835 MHz

Communication System: CW ; Frequency: 835 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
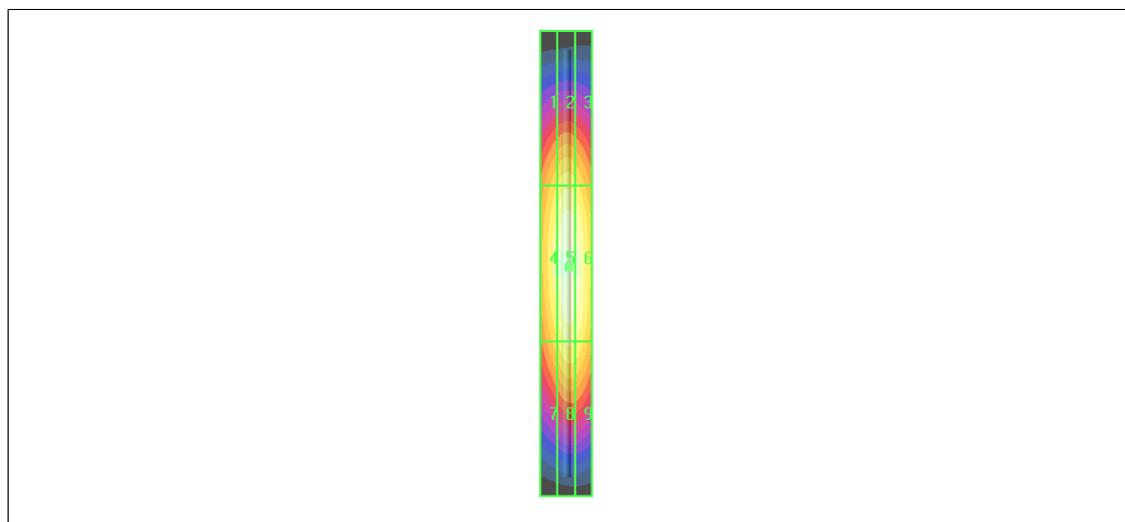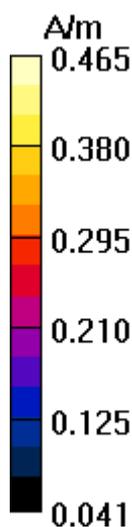Maximum value of peak Total field = 0.465 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.497 A/m; Power Drift = -0.093 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.380 M4	**0.404 M4**	**0.391 M4**
Grid 4	Grid 5	Grid 6
0.430 M4	**0.465 M4**	**0.452 M4**
Grid 7	Grid 8	Grid 9
0.376 M4	**0.416 M4**	**0.409 M4**

A - 1

Test Laboratory: Bureau Veritas ADT

H_1880MHz (System Validation)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Device Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6124 ; ; Calibrated: 2009/1/20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.458 A/m
Probe Modulation Factor = 1.00
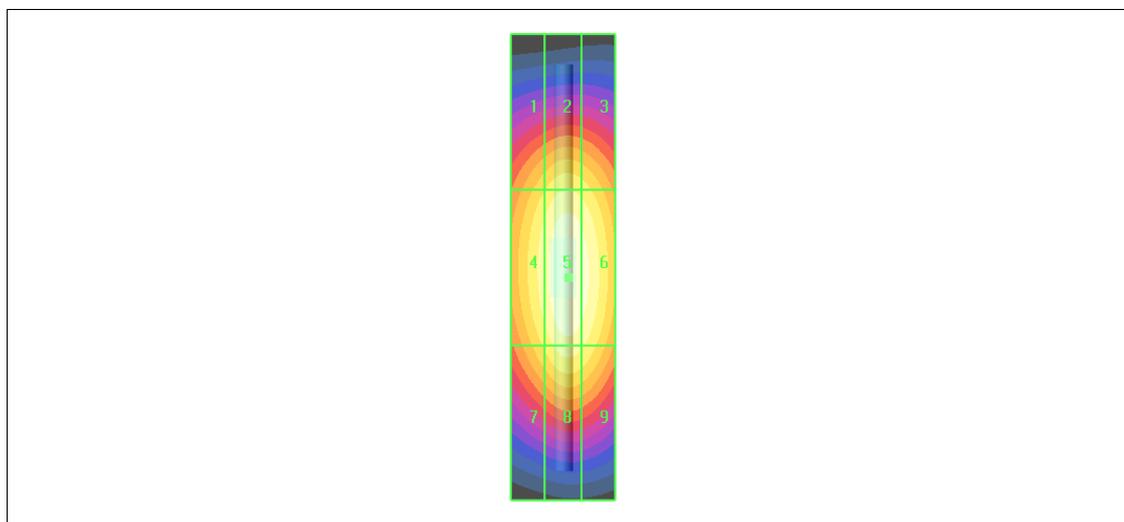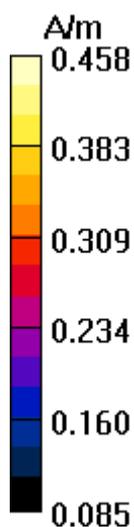Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.483 A/m; Power Drift = 0.001 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 **0.383 M2**	Grid 2 **0.409 M2**	Grid 3 **0.399 M2**
Grid 4 **0.426 M2**	Grid 5 **0.458 M2**	Grid 6 **0.446 M2**
Grid 7 **0.391 M2**	Grid 8 **0.424 M2**	Grid 9 **0.414 M2**

A - 2

Test Laboratory: Bureau Veritas ADT

E_835MHz (System Validation)
DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1041 ; Test Frequency: 835 MHz

Communication System: CW ; Frequency: 835 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 148.7 V/m
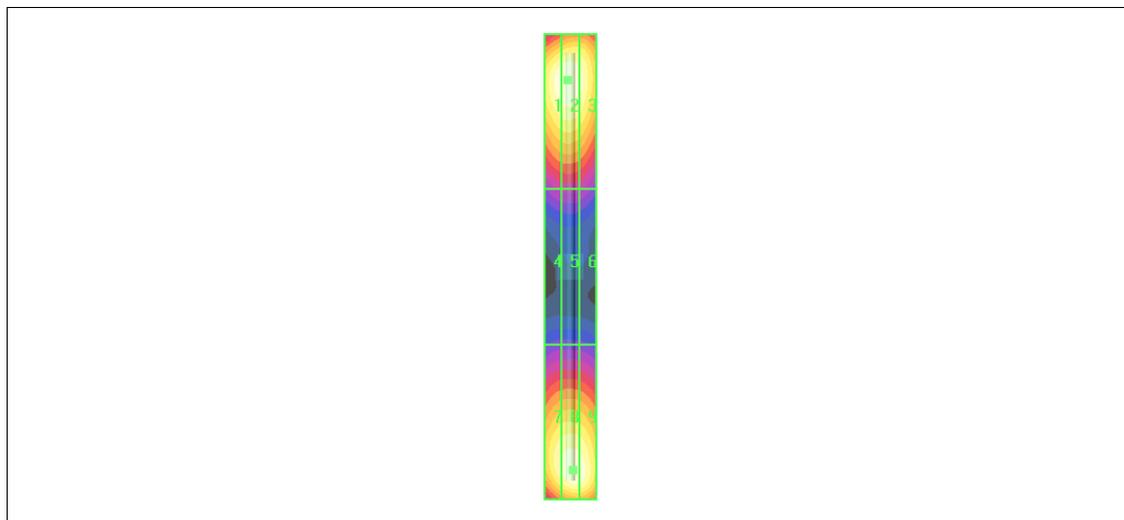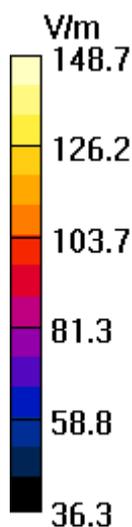Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 89.1 V/m; Power Drift = 0.007 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
147.0 M4	**148.7 M4**	**144.6 M4**
Grid 4	Grid 5	Grid 6
83.7 M4	**84.8 M4**	**82.6 M4**
Grid 7	Grid 8	Grid 9
141.8 M4	**148.5 M4**	**147.2 M4**

Test Laboratory: Bureau Veritas ADT

E_1880MHz (System Validation)
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2293 ; ConvF(1, 1, 1) ; Calibrated: 2009/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn510; Calibrated: 2009/1/21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: Not Specified
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = <mark>125.5</mark> V/m
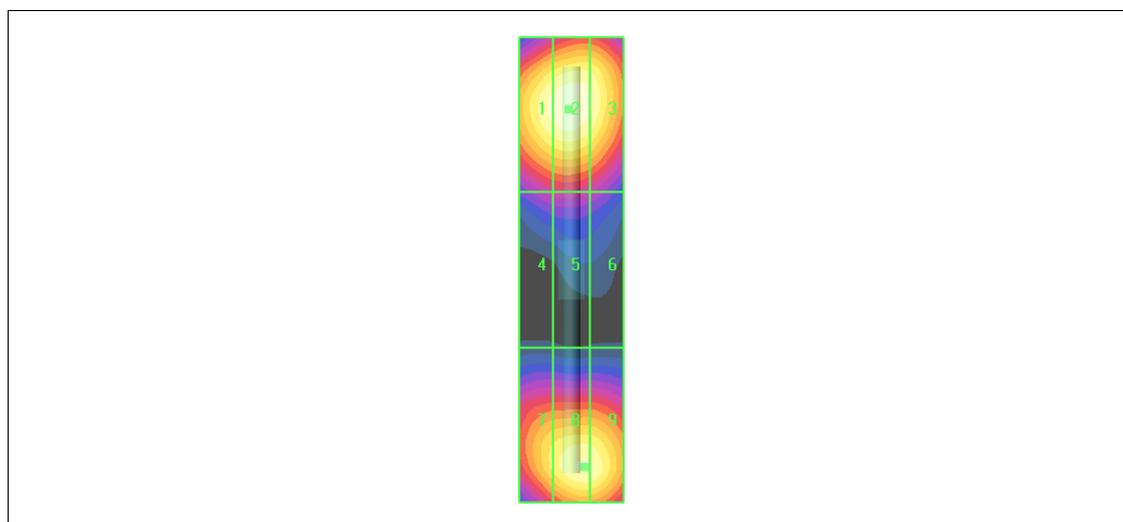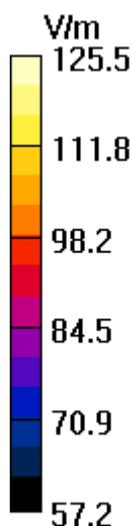Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 120.8 V/m; Power Drift = -0.004 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
123.1 M2	**125.5 M2**	**122.2 M2**
Grid 4	Grid 5	Grid 6
90.1 M3	**91.3 M3**	**88.5 M3**
Grid 7	Grid 8	Grid 9
114.9 M2	**122.0 M2**	**121.7 M2**

A - 4

APPENDIX B: SYSTEM CERTIFICATE & CALIBRATION

B1: DOSIMETRIC E-FIELD PROBE

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

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

Client   **ADT (Auden)**

Certificate No: **ER3-2293_Jan09**

CALIBRATION CERTIFICATE

Object	ER3DV6 - SN:2293
Calibration procedure(s)	QA CAL-02.v5 Calibration procedure for E-field probes optimized for close near field evaluations in air
Calibration date:	January 14, 2009
Condition of the calibrated item	In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41495277	1-Apr-08 (No. 217-00788)	Apr-09
Power sensor E4412A	MY41498087	1-Apr-08 (No. 217-00788)	Apr-09
Reference 3 dB Attenuator	SN: S5054 (3c)	1-Jul-08 (No. 217-00865)	Jul-09
Reference 20 dB Attenuator	SN: S5086 (20b)	31-Mar-08 (No. 217-00787)	Apr-09
Reference 30 dB Attenuator	SN: S5129 (30b)	1-Jul-08 (No. 217-00866)	Jul-09
Reference Probe ER3DV6	SN: 2328	1-Oct-08 (No. ER3-2328_Oct08)	Oct-09
DAE4	SN: 789	19-Dec-08 (No. DAE4-789_Dec08)	Dec-09

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-08)	In house check: Oct-09

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Technical Manager	
Approved by:	Niels Kuster	Quality Manager	

Issued: January 20, 2009

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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

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

Glossary:

NORMx;y,z	sensitivity in free space
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization $\vartheta = 0$ for XY sensors and $\vartheta = 90$ for Z sensor ($f \leq 900$ 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).

Probe ER3DV6

SN:2293

Manufactured:	October 1, 2002
Last calibrated:	January 23, 2007
Recalibrated:	January 14, 2009

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ER3DV6 SN:2293

Sensitivity in Free Space [$\mu V/(V/m)^2$]   Diode Compression[A]

NormX	**1.28** ± 10.1 % (k=2)	DCP X	**98** mV
NormY	**1.08** ± 10.1 % (k=2)	DCP Y	**97** mV
NormZ	**1.42** ± 10.1 % (k=2)	DCP Z	**97** mV

Frequency Correction

X	**0.0**
Y	**0.0**
Z	**0.0**

Sensor Offset   (Probe Tip to Sensor Center)

X	**2.5** mm
Y	**2.5** mm
Z	**2.5** mm

Connector Angle   **-193** °

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%.

[A] numerical linearization parameter: uncertainty not required

Frequency Response of E-Field
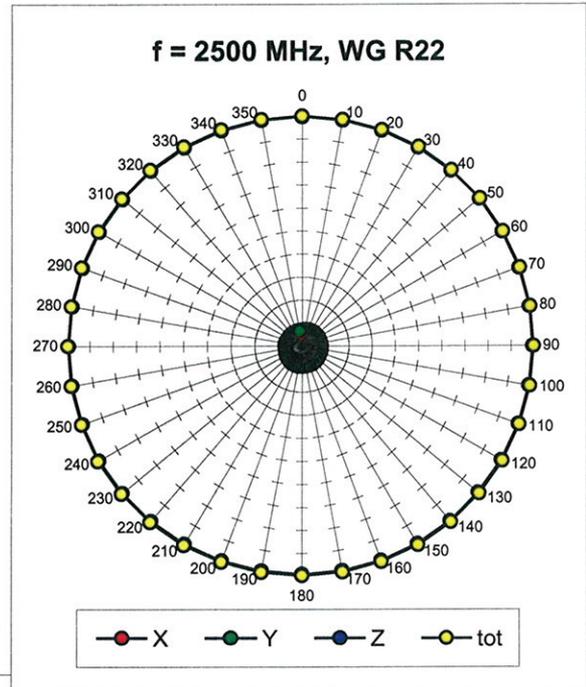
(TEM-Cell:ifi110 EXX, Waveguide R22)
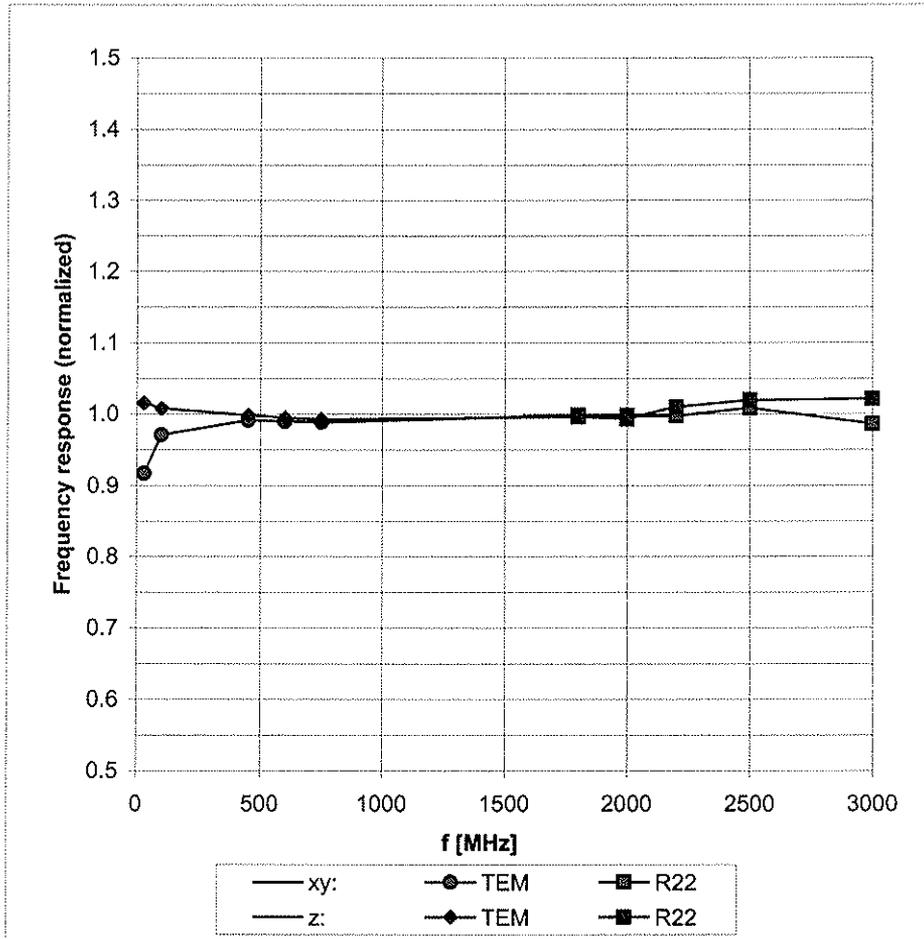
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

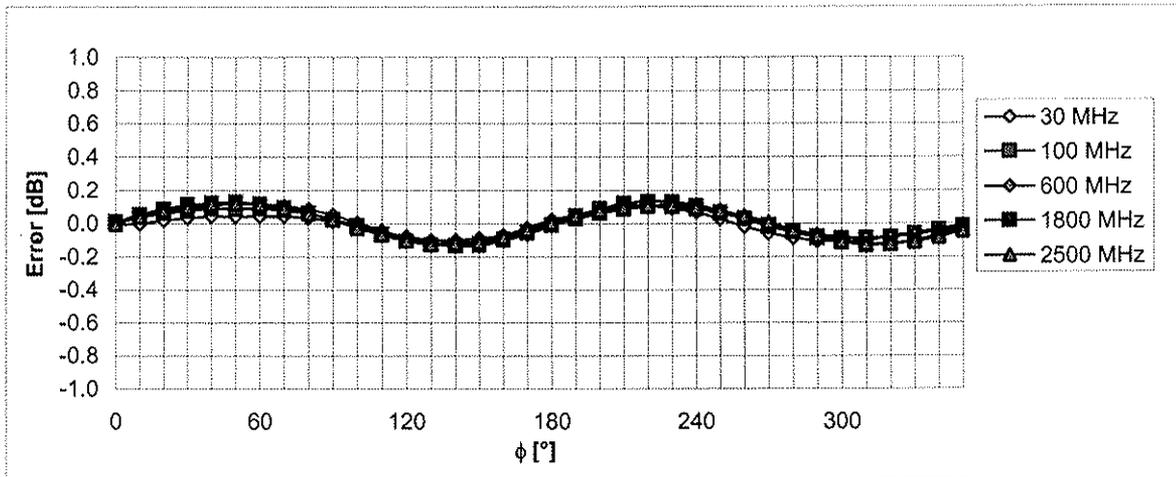# Receiving Pattern (ϕ), $\vartheta = 0°$

f = 600 MHz, TEM ifi110EXX

f = 2500 MHz, WG R22

Receiving Pattern (ϕ), $\vartheta = 90°$

f = 600 MHz, TEM ifi110EXX

f = 2500 MHz, WG R22
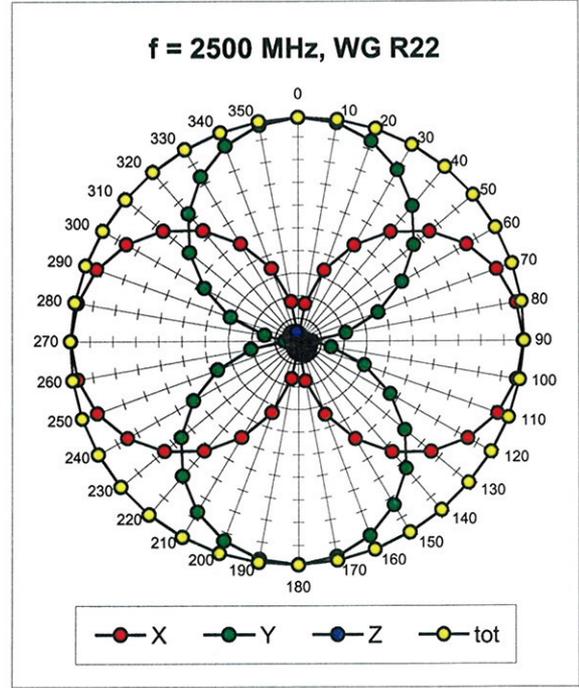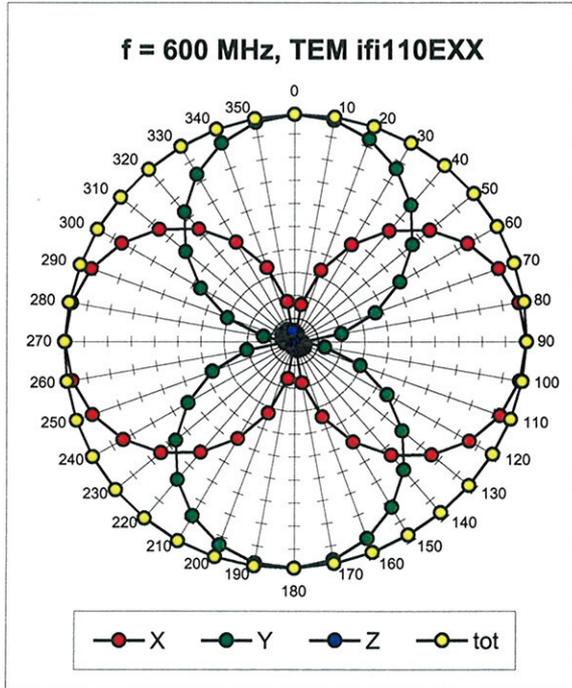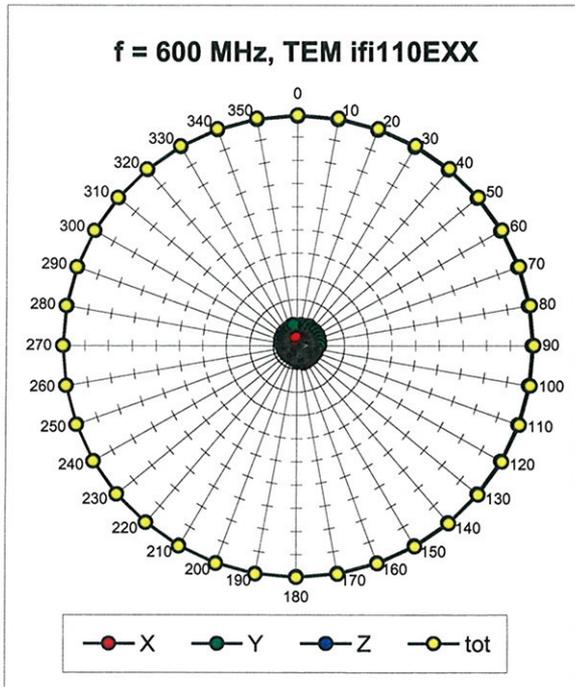
Receiving Pattern (φ), ϑ = 0°
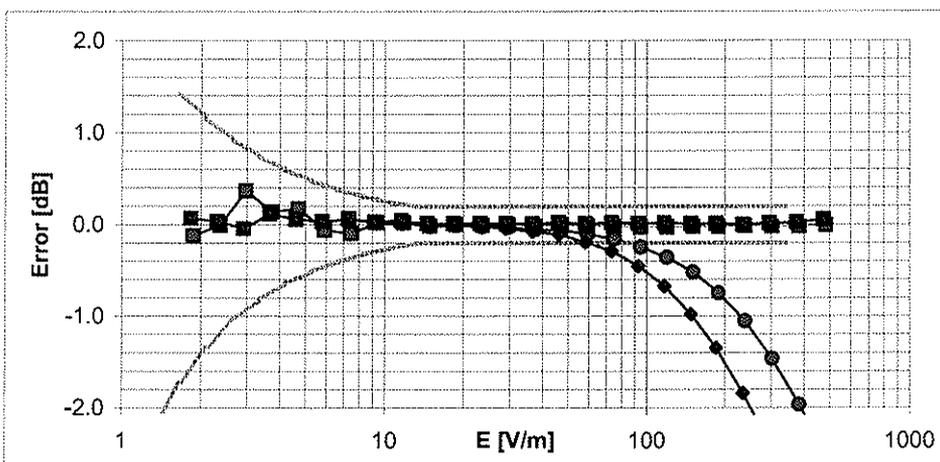

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

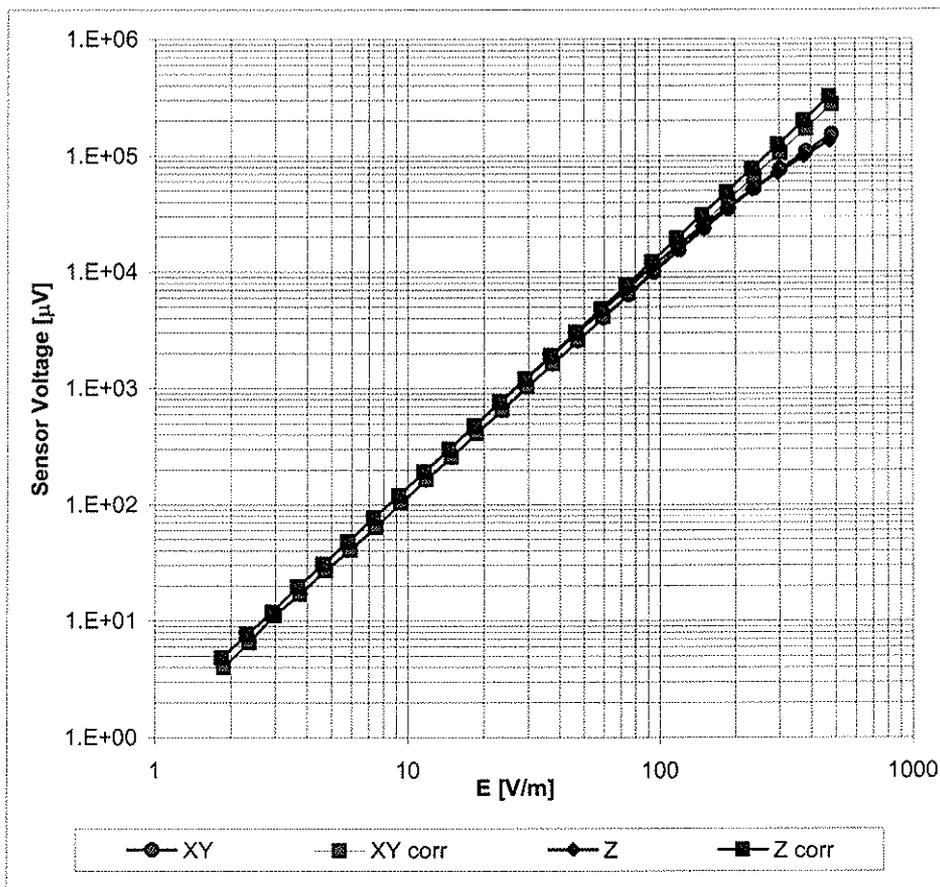# Receiving Pattern (φ), ϑ = 90°
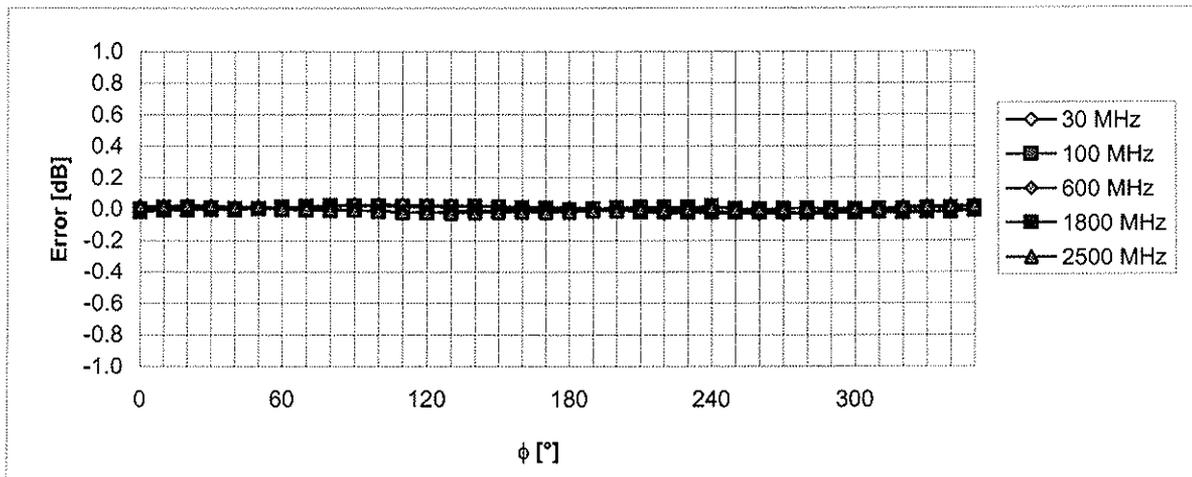
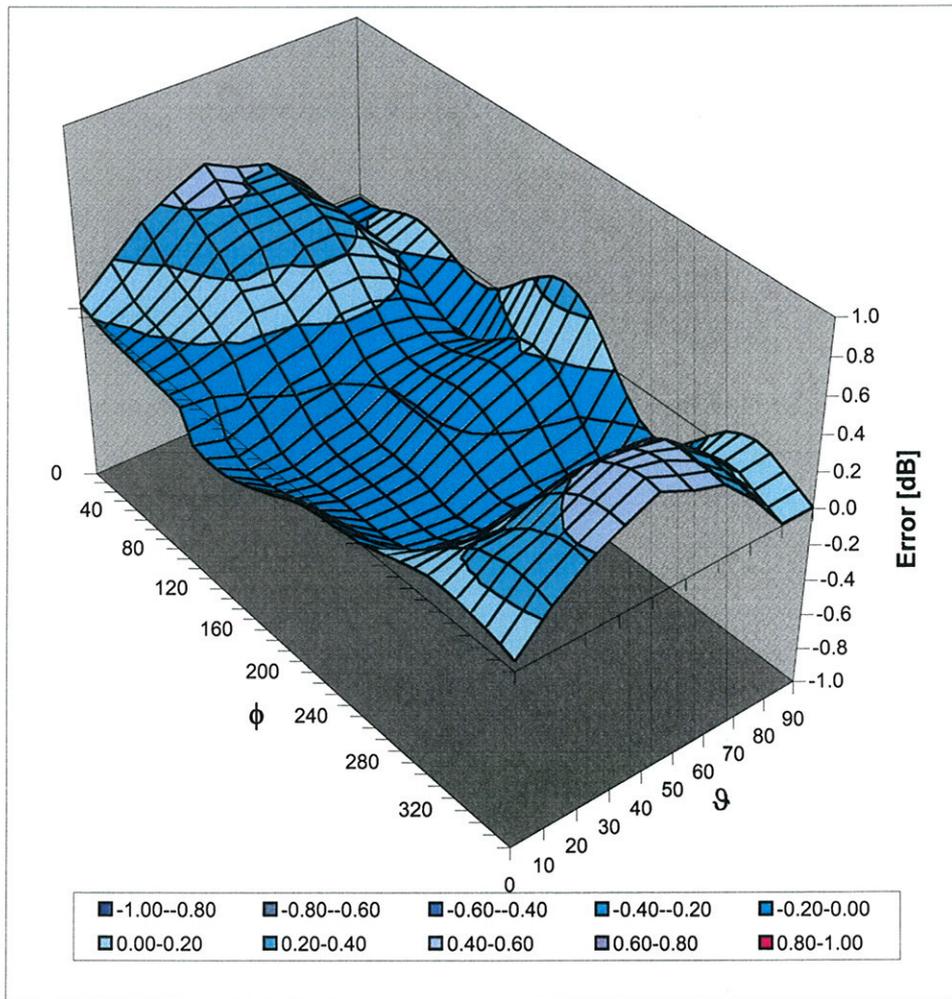**Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)**

Dynamic Range f(E-field)

(Waveguide R22, f = 1800 MHz)

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

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

■ -1.00--0.80	■ -0.80-0.60	■ -0.60--0.40	■ -0.40--0.20	■ -0.20-0.00
□ 0.00-0.20	□ 0.20-0.40	■ 0.40-0.60	■ 0.60-0.80	■ 0.80-1.00

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