

HAC RF Emissions Test Report

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Measurements made by:	Janne Hirsimäki, Ari Orte		
Tested devices:	RM-126 (Hearing aid mode), HW: 0572, 0573		
FCC ID:	PPIRM-126H	IC:	661U-RM126
Supplement reports:	-		
Testing has been carried out in accordance with:	ANSI C63.19-2006 American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:			
For the contents:			

CONTENTS

1. SUMMARY OF HAC RF EMISSION TEST REPORT	3
1.1 TEST DETAILS.....	3
1.2 MAXIMUM RESULTS.....	3
1.2.1 <i>Electric field measurements</i>	3
1.2.2 <i>Magnetic field measurements</i>	3
1.2.3 <i>Overall RF emissions category of the tested device</i>	3
1.2.4 <i>Maximum Drift</i>	4
1.2.5 <i>Measurement Uncertainty</i>	4
1.3 DESCRIPTION OF THE DEVICE UNDER TEST (DUT)	4
1.4 PICTURE OF DEVICE	5
2. TEST CONDITIONS	5
2.1 TEMPERATURE AND HUMIDITY	5
2.2 TEST SIGNAL, FREQUENCIES, AND OUTPUT POWER	5
3. DESCRIPTION OF THE TEST EQUIPMENT	6
3.1 MEASUREMENT SYSTEM AND COMPONENTS	6
3.1.1 <i>Isotropic E-field probe ER3DV6, SN: 2333</i>	7
3.1.2 <i>Isotropic H-field probe H3DV6, SN: 6053</i>	7
3.2 WD POSITIONER.....	8
3.2.1 <i>Validation of the System</i>	8
4. DESCRIPTION OF THE TEST PROCEDURE	9
4.1 TEST ARCH AND DEVICE HOLDER	9
4.2 TEST POSITIONS.....	9
4.2.1 <i>Scan area centered at the speaker output</i>	9
4.2.2 <i>Scan area centered at the maximum magnetic T-coil coupling</i>	10
4.3 SCAN PROCEDURES.....	10
4.4 PROBE MODULATION FACTOR.....	10
4.5 SLOT AVERAGED CALCULATION METHOD.....	10
4.6 SUB-GRID EXCLUSION.....	10
4.7 CATEGORY LIMITS.....	11
5. MEASUREMENT UNCERTAINTY	12
6. RESULTS	13
APPENDIX A: SYSTEM VALIDATION SCANS	14
APPENDIX B: MEASUREMENT SCANS.....	17
APPENDIX C: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)	24
APPENDIX D: RELEVANT PAGES FROM DIPOLE VALIDATION KIT REPORT(S)	25

HAC RF Emissions Report

Type: RM-126

Salo_HAC_0633_02

Applicant: Nokia Corporation

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1. SUMMARY OF HAC RF EMISSION TEST REPORT

1.1 Test Details

Period of test	2006-04-26 to 2006-04-28
SN, HW, SW and DUT numbers of tested device	SN: 004400/85/172494/6, HW: 0572, SW: Vp ml3.13, DUT: 11196 SN: 004400/85/172399/7, HW: 0573, SW: Vp ml3.13, DUT: 11197
Batteries used in testing	BL-4C, DUT: 11194, 11195
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum measured HAC RF emissions values and categories for electric and magnetic fields are given in section 1.2.1 and 1.2.2 respectively.

1.2.1 Electric field measurements

Band & Mode	Ch / Freq. (MHz)	Limit of E-field max. value in category M3 [V/m]	Maximum E-field value after exclusion [V/m]	Category
GSM850	251 / 848.8	149.6 – 266.1	263.8	M3 (-5dB)
GSM1900	512 / 1850.2	47.3 – 84.1	78.7	M3 (-5dB)

1.2.2 Magnetic field measurements

Band & Mode	Ch / Freq. (MHz)	Limit of H-field max. value in category M3 [A/m]	Maximum H-field value after exclusion [A/m]	Category
GSM850	251 / 848.8	0.45 – 0.80	0.54	M3 (-5dB)
GSM1900	810 / 1909.8	0.14 – 0.25	0.18	M3 (-5dB)

1.2.3 Overall RF emissions category of the tested device

Band & Mode	Combined category (E- and H-fields)	Pass / Fail
GSM850	M3 (-5dB)	PASS
GSM1900	M3 (-5dB)	PASS

1.2.4 Maximum Drift

Maximum drift during measurements	-0.4 dB
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1.2.5 Measurement Uncertainty

Extended Uncertainty (k=2) 95%, E-field	14.7 %
Extended Uncertainty (k=2) 95%, H-field	10.9 %

1.3 Description of the Device under test (DUT)

Modes and Bands of Operation	GSM	GPRS	EGPRS	BT
	850 / 1900	850 / 1900	850 / 1900	
Modulation Mode	GMSK	GMSK	GMSK / 8PSK	GFSK
Duty Cycle	1/8	1/8 to 2/8	1/8 to 2/8	
Transmitter Frequency Range (MHz)	824 - 849 1850 - 1910	824 - 849 1850 - 1910	824 - 849 1850 - 1910	2402-2480

Outside of USA and Canada, the transmitter of the device is capable of operating also in 900 / 1800 MHz bands, which are not part of this filing.

1.4 Picture of Device



HWID: 0572, flip closed



HWID: 0572, flip open



HWID: 0573, flip closed



HWID: 0573, flip open

2. TEST CONDITIONS

2.1 Temperature and Humidity

Ambient temperature (°C):	22.0 to 23.0
Ambient humidity (RH %):	30 to 40

2.2 Test Signal, Frequencies, and Output Power

The transmitter of the device was put into operation by using a call tester. Communications between the device and the call tester were established by air link.

For all tests the device output power was set to maximum power level; a fully charged battery was used for every test sequence.

The measurements were performed on low, middle and high channels.

3. DESCRIPTION OF THE TEST EQUIPMENT

3.1 Measurement system and components

The measurements were performed using an automated near-field scanning system, DASY 4, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland.
The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration interval	Calibration expiry
DAE V1	388	12 months	2007-01
E-field Probe ER3DV6	2333	12 months	2007-01
H-field Probe H3DV6	6053	12 months	2007-01
Dipole Validation Kit, CD835V3	1004	24 months	2007-02
Dipole Validation Kit, CD1880V3	1003	24 months	2007-02

Additional test equipment used in testing and validation:

Test Equipment	Model	Serial Number	Calibration interval	Calibration expiry
Signal Generator	8657B	3630U08114	12 months	2007-01
Amplifier	5S1G4	306024	12 months	2006-07
Power Meter	E4416A	GB41291465	12 months	2007-01
Power Sensor	FSH-Z1	100411	12 months	2007-01
Radio Communication Tester	CMU 200	103293	-	-

3.1.1 Isotropic E-field probe ER3DV6, SN: 2333

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material
Frequency	In air 100 MHz to >6 GHz; Linearity: ± 0.2 dB (100 MHz to 3 GHz)
Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)
Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 8 mm
Application	Distance from probe tip to nearest point of dipole: 1.25 mm General near-field measurements up to 6 GHz Field component measurements Fast automatic scanning in phantoms

3.1.2 Isotropic H-field probe H3DV6, SN: 6053

Construction	Three concentric loop sensors with 3.8 mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges PEEK enclosure material
Frequency	200 MHz to 3 GHz; Output linearized (absolute accuracy $\pm 6.0\%$, $k=2$)
Directivity	± 0.25 dB (spherical isotropy error)
Dynamic Range	10 mA/m to 2 A/m at 1 GHz
Dimensions	Overall length: 330 mm Tip length: 40 mm Body diameter: 12 mm Tip diameter: 6 mm
Application	Distance from probe tip to nearest point of dipole: 1.1 mm General magnetic near-field measurements up to 3 GHz Field component measurements, surface current measurements Measurements in air or liquids, low interaction

3.2 WD positioner

The WD positioner and Test Arch is manufactured by Speag (<http://www.dasy4.com/hac>). Test arch is used for all tests i.e. for both validation testing and device testing. The positioner and test arch conforms to the requirements of ANSI C63.19.

The SPEAG device holder (see Section 5.1) was used to position the test device in all tests whilst a tripod was used to position the validation dipoles in the test arch.

3.2.1 Validation of the System

The manufacturer calibrates the probes annually. Validation measurements are made regularly using the dipole validation kit. The power level used by manufacturer in dipole calibration is supplied to the dipole antenna. The antenna is scanned at 1.0cm distance between top surface of the dipole and calibration point of the probe.

System Validation, H-field and E-field

Frequency / MHz	Date	Description	H-field	E-field
835MHz		Reference result ± 10% window	0.439 0.395 – 0.483	162.1 145.9 – 178.3
	2006-04-26 to 2006-04-27	Dipole, SN: 1004	0.434	168.2
1880MHz		Reference result ± 10% window	0.444 0.400 – 0.488	133.9 134.8 – 147.3
	2006-04-26 to 2006-04-27	Dipole, SN: 1004	0.432	132.7

Plots of the system checking scans are given in Appendix A.

4. DESCRIPTION OF THE TEST PROCEDURE

4.1 Test Arch and Device Holder

The test device was placed in the Device Holder (illustrated below) that is supplied by SPEAG. Using this positioner the tested device is positioned under Test Arch.



Device holder and Test Arch supplied by SPEAG

4.2 Test Positions

4.2.1 Scan area centered at the speaker output

The device was positioned such that Device Reference level was touching the bottom of the Test Arch. The scan is centered at the speaker output by aligning the speaker output with the intersection of the Test Arch's middle bar and dielectric wire.



Photo of the device positioned under Test Arch

4.2.2 Scan area centered at the maximum magnetic T-coil coupling

Scanning centered at the maximum magnetic T-coil coupling was not applicable for the tested device.

4.3 Scan Procedures

Near field scans of 5cm x 5cm were used for determination of the field distribution. Measurement plane distance from WD reference plane is 1cm. Scans were performed for both E- and H-field using appropriate probe. DASY software divides detected values into 3 x 3 subgrids as described in the C63.19 standard.

4.4 Probe Modulation Factor

All raw measurements in DASY4 system are RMS values. The measurement software then applies Probe Modulation Factor (PMF) to convert readings to “slot averaged” peak values as described in the C63.19 standard. This Probe Modulation Factor was assessed as described in standard with following results:

Freq./ MHz	E-field probe, SN: 2333		H-field probe, SN: 6053		E-field PMF	H-field PMF
	CW	GSM	CW	GSM		
835	106.1	37.26	0.4871	0.1837	2.85	2.65
1880	149.3	51.98	0.4981	0.2366	2.87	2.11

4.5 Slot Averaged Calculation Method

The slot-averaged values were calculated using modulation response conversion factor of sqrt(8.3) (in linear units).

4.6 Sub-grid Exclusion

The measurement grid defined in C63.19 consists of 9 evenly sized blocks, which are used to define permissible exclusion areas. For both E- and H-field measurements three contiguous blocks may be excluded from the measurements except center block may never be excluded. There must be 4 blocks left that are common for both E- and H-field measurements, so maximum of 5 different blocks can be excluded (e.g. 3 blocks excluded from E-field and 2 blocks from H-field).

4.7 Category Limits

From remaining maximum values after exclusion process, Hearing Aid M-category is defined according to the category limits of C63.19.

Category Limits for RF-parameters <960MHz

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	631.0 - 1122.0	1.91 - 3.39
	-5	473 - 841.4	1.43 - 2.54
M2	0	354.8 - 631.0	1.07 - 1.91
	-5	266.1 - 473.2	0.80 - 1.43
M3	0	199.5 - 354.8	0.60 - 1.07
	-5	149.6 - 266.1	0.45 - 0.80
M4	0	<199.5	<0.60
	-5	<149.6	<0.45

Category Limits for RF-parameters >960MHz

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15

5. MEASUREMENT UNCERTAINTY

Source of Uncertainty	Tolerance ±%	Probability Distribution	Div.	ci E	ci H	Standard Uncertainty ±%, E	Standard Uncertainty ±%, H	Remark
Measurement System								
Probe Calibration	5.1	N	1	1	1	5.1	5.1	
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7	
Sensor Displacement	16.5	R	√3	1	0.145	9.5	1.4	
Boundary Effect	2.4	R	√3	1	1	1.4	1.4	
Linearity	4.7	R	√3	1	1	2.7	2.7	SAR
Scaling to Peak Envelope Power	2.0	R	√3	1	1	1.2	1.2	
System Detection Limit	1.0	R	√3	1	1	0.6	0.6	
Readout Electronics	0.3	N	1	1	1	0.3	0.3	SAR
Response Time	0.8	R	√3	1	1	0.5	0.5	
Integration Time	2.6	R	√3	1	1	1.5	1.5	SAR
RF Ambient Conditions	3.0	R	√3	1	1	1.7	1.7	SAR
RF Reflections	12.0	R	√3	1	1	6.9	6.9	
Probe Positioner	1.2	R	√3	1	0.67	0.7	0.5	
Probe Positioning Extrapolation and Interpolation	4.7	R	√3	1	0.67	2.7	1.8	
	1.0	R		1	1	0.6	0.6	SAR
Test Sample Related								
Decice Positioning Vertical	4.7	R	√3	1	0.67	2.7	1.8	
Device Positioning Lateral	1.0	R	√3	1	1	0.6	0.6	
Device Holder and Phantom	2.4	R	√3	1	1	1.4	1.4	
Power Drift	5.0	R	√3	1	1	2.9	2.9	SAR
Phantom and Setup Related								
Phantom Thickness	2.4	R	√3	1	0.67	1.4	0.9	
Combined Standard Uncertainty						14.7	10.9	
Expanded Uncertainty on Power						29.4	21.8	
Expanded Uncertainty on Field						14.7	10.9	

6. RESULTS

The calculated maximum field values for the test device are tabulated below:

GSM850, E and H RF emissions results

HWID	Mode	Flip option	Test configuration	Ch 128 824.2MHz	Ch 190 836.6MHz	Ch 251 848.8MHz
0572	GSM850	Flip open	E-field (V/M)	247.8	246.7	260.9
			H-field (A/m)	0.476	0.491	0.539
			Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)
0573	GSM850	Flip open	E-field (V/M)	247.4	249.4	263.8
			H-field (A/m)	0.465	0.479	0.514
			Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)

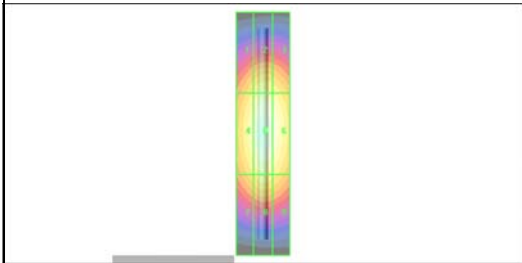
GSM1900, E and H RF emissions results

HWID	Mode	Flip option	Test configuration	Ch 512 1850.2MHz	Ch 661 1880.0MHz	Ch 810 1909.8MHz
0572	GSM1900	Flip open	E-field (V/M)	78.7	72.4	73.0
			H-field (A/m)	0.166	0.168	0.183
			Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)
0573	GSM1900	Flip open	E-field (V/M)	68.2	64.9	67.9
			H-field (A/m)	0.138	0.136	0.153
			Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)

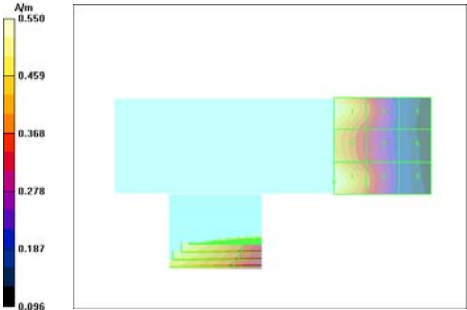
Plots of the maximum measurement scans are given in Appendix B.

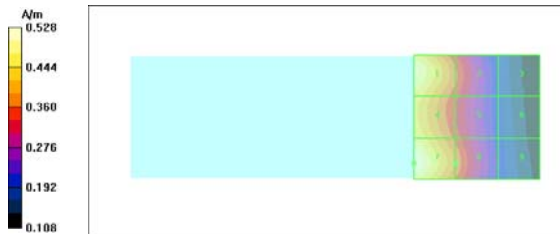
APPENDIX A: SYSTEM VALIDATION SCANS

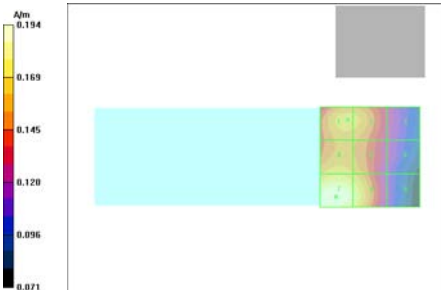
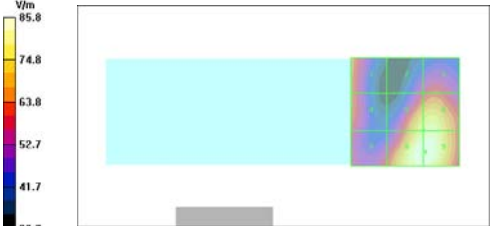
Date/Time: 26.04.2006 10:23:28 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: D835V3;Serial: 1004 Program Name: H-field Dipole	Date/Time: 27.04.2006 14:54:55 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: D835V3; Serial: 1004 Program Name: E-field Dipole																																				
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$ Phantom section: H Device Section	Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: E Dipole Section																																				
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 07.01.2005 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																																				
H Scan - 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.434 A/m Probe Modulation Factor = 1.00 Reference Value = 0.496 A/m; Power Drift = 0.003 dB	E Scan 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 173.3 V/m Probe Modulation Factor = 1.00 Reference Value = 108.4 V/m; Power Drift = -0.019 dB																																				
Peak H-field in A/m<table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.365</td><td>0.390</td><td>0.378</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.406</td><td>0.434</td><td>0.423</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.348</td><td>0.371</td><td>0.361</td></tr></table>	Grid 1	Grid 2	Grid 3	0.365	0.390	0.378	Grid 4	Grid 5	Grid 6	0.406	0.434	0.423	Grid 7	Grid 8	Grid 9	0.348	0.371	0.361	Peak E-field in V/m<table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>166.0</td><td>173.3</td><td>171.2</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>90.7</td><td>94.5</td><td>92.8</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>154.9</td><td>163.1</td><td>161.8</td></tr></table>	Grid 1	Grid 2	Grid 3	166.0	173.3	171.2	Grid 4	Grid 5	Grid 6	90.7	94.5	92.8	Grid 7	Grid 8	Grid 9	154.9	163.1	161.8
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A/m 0.434 0.354 0.275 0.196 0.117 0.037	V/m 173.3 145.9 118.5 91.1 63.7 36.3																																				

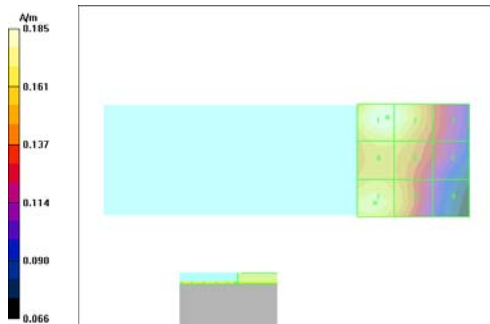
Date/Time: 26.04.2006 10:54:12 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: CD1880V3;Serial: 1003 Program Name: H-field Dipole	Date/Time: 27.04.2006 15:22:34 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: CD1880V3; Serial: 1003 Program Name: E-field Dipole																																				
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DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 07.01.2005 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																																				
H Scan - 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.432 A/m Probe Modulation Factor = 1.00 Reference Value = 0.488 A/m; Power Drift = 0.005 dB	E Scan - 10mm above CD 1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 136.9 V/m Probe Modulation Factor = 1.00 Reference Value = 142.5 V/m; Power Drift = 0.000 dB																																				
Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.370</td><td>0.395</td><td>0.387</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.406</td><td>0.432</td><td>0.423</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.361</td><td>0.384</td><td>0.373</td></tr></table>	Grid 1	Grid 2	Grid 3	0.370	0.395	0.387	Grid 4	Grid 5	Grid 6	0.406	0.432	0.423	Grid 7	Grid 8	Grid 9	0.361	0.384	0.373	Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 1</td><td>Grid 3</td></tr><tr><td>127.2</td><td>136.9</td><td>136.6</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>88.8</td><td>93.5</td><td>92.4</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>123.7</td><td>128.4</td><td>127.3</td></tr></table>	Grid 1	Grid 1	Grid 3	127.2	136.9	136.6	Grid 4	Grid 5	Grid 6	88.8	93.5	92.4	Grid 7	Grid 8	Grid 9	123.7	128.4	127.3
Grid 1	Grid 2	Grid 3																																			
0.370	0.395	0.387																																			
Grid 4	Grid 5	Grid 6																																			
0.406	0.432	0.423																																			
Grid 7	Grid 8	Grid 9																																			
0.361	0.384	0.373																																			
Grid 1	Grid 1	Grid 3																																			
127.2	136.9	136.6																																			
Grid 4	Grid 5	Grid 6																																			
88.8	93.5	92.4																																			
Grid 7	Grid 8	Grid 9																																			
123.7	128.4	127.3																																			
	V/m 136.9 120.6 104.3 88.1 71.8 55.5 																																				

APPENDIX B: MEASUREMENT SCANS

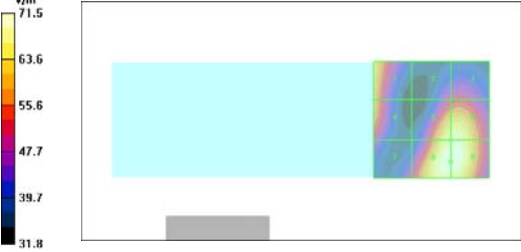
Date/Time: 26.04.2006 14:07:12 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172494/6, HWID: 0572 Program Name: HAC H Device	Date/Time: 28.04.2006 10:33:43 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126;Serial: 004400/85/172494/6, HWID: 0572 Program Name: HAC E Device																																				
Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:7 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$ Phantom section: H Device Section	Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.1 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: E Device Section																																				
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																																				
H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.550 A/m Probe Modulation Factor = 2.65 Reference Value = 0.101 A/m; Power Drift = -0.095 dB	E Scan 10mm above Device Reference /Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 260.9 V/m Probe Modulation Factor = 2.85 Reference Value = 95.7 V/m; Power Drift = 0.008 dB																																				
Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.539</td><td>0.392</td><td>0.200</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.484</td><td>0.346</td><td>0.199</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.550</td><td>0.393</td><td>0.207</td></tr></table>	Grid 1	Grid 2	Grid 3	0.539	0.392	0.200	Grid 4	Grid 5	Grid 6	0.484	0.346	0.199	Grid 7	Grid 8	Grid 9	0.550	0.393	0.207	Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>201.4</td><td>249.7</td><td>247.5</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>213.4</td><td>260.9</td><td>258.8</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>203.9</td><td>251.3</td><td>249.2</td></tr></table>	Grid 1	Grid 2	Grid 3	201.4	249.7	247.5	Grid 4	Grid 5	Grid 6	213.4	260.9	258.8	Grid 7	Grid 8	Grid 9	203.9	251.3	249.2
Grid 1	Grid 2	Grid 3																																			
0.539	0.392	0.200																																			
Grid 4	Grid 5	Grid 6																																			
0.484	0.346	0.199																																			
Grid 7	Grid 8	Grid 9																																			
0.550	0.393	0.207																																			
Grid 1	Grid 2	Grid 3																																			
201.4	249.7	247.5																																			
Grid 4	Grid 5	Grid 6																																			
213.4	260.9	258.8																																			
Grid 7	Grid 8	Grid 9																																			
203.9	251.3	249.2																																			
																																					

Date/Time: 27.04.2006 12:46:31 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172399/7, HWID: 0573 Program Name: HAC H Device	Date/Time: 28.04.2006 10:56:18 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172399/7, HWID: 0573 Program Name: HAC E Device																		
Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:7 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$ Phantom section: H Device Section	Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.1 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: E Device Section																		
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																		
H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.528 A/m Probe Modulation Factor = 2.65 Reference Value = 0.102 A/m; Power Drift = -0.006 dB	E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 263.8 V/m Probe Modulation Factor = 2.85 Reference Value = 98.6 V/m; Power Drift = -0.125 dB																		
Peak H-field in A/m <table><tr><td>Grid 1 0.514</td><td>Grid 2 0.366</td><td>Grid 3 0.203</td></tr><tr><td>Grid 4 0.481</td><td>Grid 5 0.352</td><td>Grid 6 0.208</td></tr><tr><td>Grid 7 0.528</td><td>Grid 8 0.383</td><td>Grid 9 0.215</td></tr></table>	Grid 1 0.514	Grid 2 0.366	Grid 3 0.203	Grid 4 0.481	Grid 5 0.352	Grid 6 0.208	Grid 7 0.528	Grid 8 0.383	Grid 9 0.215	Peak E-field in V/m <table><tr><td>Grid 1 204.9</td><td>Grid 2 251.8</td><td>Grid 3 249.8</td></tr><tr><td>Grid 4 216.1</td><td>Grid 5 263.8</td><td>Grid 6 262.1</td></tr><tr><td>Grid 7 205.3</td><td>Grid 8 252.8</td><td>Grid 9 251.9</td></tr></table>	Grid 1 204.9	Grid 2 251.8	Grid 3 249.8	Grid 4 216.1	Grid 5 263.8	Grid 6 262.1	Grid 7 205.3	Grid 8 252.8	Grid 9 251.9
Grid 1 0.514	Grid 2 0.366	Grid 3 0.203																	
Grid 4 0.481	Grid 5 0.352	Grid 6 0.208																	
Grid 7 0.528	Grid 8 0.383	Grid 9 0.215																	
Grid 1 204.9	Grid 2 251.8	Grid 3 249.8																	
Grid 4 216.1	Grid 5 263.8	Grid 6 262.1																	
Grid 7 205.3	Grid 8 252.8	Grid 9 251.9																	
																			

Date/Time: 26.04.2006 14:45:10 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126;Serial: 004400/85/172494/6, HWID: 0572 Program Name: HAC H Device	Date/Time: 28.04.2006 13:58:34 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126;Serial: 004400/85/172494/6, HWID: 0572 Program Name: HAC E Device																		
Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.4 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$ Phantom section: H Device Section	Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: E Device Section																		
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																		
H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.194 A/m Probe Modulation Factor = 2.10 Reference Value = 0.068 A/m; Power Drift = -0.039 dB	E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 85.8 V/m Probe Modulation Factor = 2.88 Reference Value = 19.4 V/m; Power Drift = -0.056 dB																		
Peak H-field in A/m <table><tr><td>Grid 1 0.166</td><td>Grid 2 0.165</td><td>Grid 3 0.129</td></tr><tr><td>Grid 4 0.169</td><td>Grid 5 0.163</td><td>Grid 6 0.125</td></tr><tr><td>Grid 7 0.194</td><td>Grid 8 0.182</td><td>Grid 9 0.118</td></tr></table>	Grid 1 0.166	Grid 2 0.165	Grid 3 0.129	Grid 4 0.169	Grid 5 0.163	Grid 6 0.125	Grid 7 0.194	Grid 8 0.182	Grid 9 0.118	Peak E-field in V/m <table><tr><td>Grid 1 66.4</td><td>Grid 2 58.0</td><td>Grid 3 61.8</td></tr><tr><td>Grid 4 65.1</td><td>Grid 5 78.7</td><td>Grid 6 80.5</td></tr><tr><td>Grid 7 60.4</td><td>Grid 8 85.7</td><td>Grid 9 85.8</td></tr></table>	Grid 1 66.4	Grid 2 58.0	Grid 3 61.8	Grid 4 65.1	Grid 5 78.7	Grid 6 80.5	Grid 7 60.4	Grid 8 85.7	Grid 9 85.8
Grid 1 0.166	Grid 2 0.165	Grid 3 0.129																	
Grid 4 0.169	Grid 5 0.163	Grid 6 0.125																	
Grid 7 0.194	Grid 8 0.182	Grid 9 0.118																	
Grid 1 66.4	Grid 2 58.0	Grid 3 61.8																	
Grid 4 65.1	Grid 5 78.7	Grid 6 80.5																	
Grid 7 60.4	Grid 8 85.7	Grid 9 85.8																	
																			

Date/Time: 26.04.2006 14:56:13 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126;Serial: 004400/85/172494/6, HWID: 0572 Program Name: HAC H Device	Date/Time: 28.04.2006 14:06:56 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126;Serial: 004400/85/172494/6, HWID: 0572 Program Name: HAC E Device																		
Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4.4 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$ Phantom section: H Device Section	Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: E Device Section																		
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																		
H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.185 A/m Probe Modulation Factor = 2.10 Reference Value = 0.068 A/m; Power Drift = 0.019 dB	E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 78.0 V/m Probe Modulation Factor = 2.88 Reference Value = 16.6 V/m; Power Drift = 0.038 dB																		
Peak H-field in A/m <table><tr><td>Grid 1 0.185</td><td>Grid 2 0.183</td><td>Grid 3 0.140</td></tr><tr><td>Grid 4 0.165</td><td>Grid 5 0.163</td><td>Grid 6 0.133</td></tr><tr><td>Grid 7 0.173</td><td>Grid 8 0.163</td><td>Grid 9 0.114</td></tr></table>	Grid 1 0.185	Grid 2 0.183	Grid 3 0.140	Grid 4 0.165	Grid 5 0.163	Grid 6 0.133	Grid 7 0.173	Grid 8 0.163	Grid 9 0.114	Peak E-field in V/m <table><tr><td>Grid 1 72.4</td><td>Grid 2 52.7</td><td>Grid 3 56.9</td></tr><tr><td>Grid 4 66.8</td><td>Grid 5 70.7</td><td>Grid 6 73.0</td></tr><tr><td>Grid 7 55.6</td><td>Grid 8 77.9</td><td>Grid 9 78.0</td></tr></table>	Grid 1 72.4	Grid 2 52.7	Grid 3 56.9	Grid 4 66.8	Grid 5 70.7	Grid 6 73.0	Grid 7 55.6	Grid 8 77.9	Grid 9 78.0
Grid 1 0.185	Grid 2 0.183	Grid 3 0.140																	
Grid 4 0.165	Grid 5 0.163	Grid 6 0.133																	
Grid 7 0.173	Grid 8 0.163	Grid 9 0.114																	
Grid 1 72.4	Grid 2 52.7	Grid 3 56.9																	
Grid 4 66.8	Grid 5 70.7	Grid 6 73.0																	
Grid 7 55.6	Grid 8 77.9	Grid 9 78.0																	
																			

Date/Time: 27.04.2006 10:23:20 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172399/7, HWID: 0573 Program Name: HAC H Device	Date/Time: 28.04.2006 12:24:31 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172399/7, HWID: 0573 Program Name: HAC E Device																																				
Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.4 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$ Phantom section: H Device Section	Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3 Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: E Device Section																																				
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																																				
H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.156 A/m Probe Modulation Factor = 2.10 Reference Value = 0.059 A/m; Power Drift = -0.049 dB	E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 70.8 V/m Probe Modulation Factor = 2.88 Reference Value = 17.5 V/m; Power Drift = 0.014 dB																																				
Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.133</td><td>0.133</td><td>0.110</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.144</td><td>0.138</td><td>0.110</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.156</td><td>0.143</td><td>0.103</td></tr></table>	Grid 1	Grid 2	Grid 3	0.133	0.133	0.110	Grid 4	Grid 5	Grid 6	0.144	0.138	0.110	Grid 7	Grid 8	Grid 9	0.156	0.143	0.103	Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>57.3</td><td>51.7</td><td>53.7</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>58.0</td><td>68.2</td><td>69.0</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>53.4</td><td>70.8</td><td>70.8</td></tr></table>	Grid 1	Grid 2	Grid 3	57.3	51.7	53.7	Grid 4	Grid 5	Grid 6	58.0	68.2	69.0	Grid 7	Grid 8	Grid 9	53.4	70.8	70.8
Grid 1	Grid 2	Grid 3																																			
0.133	0.133	0.110																																			
Grid 4	Grid 5	Grid 6																																			
0.144	0.138	0.110																																			
Grid 7	Grid 8	Grid 9																																			
0.156	0.143	0.103																																			
Grid 1	Grid 2	Grid 3																																			
57.3	51.7	53.7																																			
Grid 4	Grid 5	Grid 6																																			
58.0	68.2	69.0																																			
Grid 7	Grid 8	Grid 9																																			
53.4	70.8	70.8																																			
A/m 0.156 0.137 0.118 0.100 0.081 0.062	V/m 70.8 62.4 54.1 45.7 37.4 29.0																																				

Date/Time: 27.04.2006 10:33:51 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172399/7, HWID: 0573 Program Name: HAC H Device	Date/Time: 28.04.2006 12:33:13 Test Laboratory: TCC Nokia, Salo_A Laboratory Type: RM-126; Serial: 004400/85/172399/7, HWID: 0573 Program Name: HAC E Device																		
Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4.4 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section	Communication System: DCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section																		
DASY4 Configuration: - Probe: H3DV6 - SN6053; ; Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170	DASY4 Configuration: - Probe: ER3DV6 - SN2333; ConvF(1, 1, 1); Calibrated: 24.01.2006 - Sensor-Surface: (Fix Surface) - Electronics: DAE3 Sn388; Calibrated: 19.01.2006 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 170																		
H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.155 A/m Probe Modulation Factor = 2.10 Reference Value = 0.063 A/m; Power Drift = -0.014 dB	E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 71.5 V/m Probe Modulation Factor = 2.88 Reference Value = 16.6 V/m; Power Drift = 0.069 dB																		
Peak H-field in A/m <table><tr><td>Grid 1 0.153</td><td>Grid 2 0.152</td><td>Grid 3 0.123</td></tr><tr><td>Grid 4 0.148</td><td>Grid 5 0.147</td><td>Grid 6 0.122</td></tr><tr><td>Grid 7 0.155</td><td>Grid 8 0.144</td><td>Grid 9 0.108</td></tr></table>	Grid 1 0.153	Grid 2 0.152	Grid 3 0.123	Grid 4 0.148	Grid 5 0.147	Grid 6 0.122	Grid 7 0.155	Grid 8 0.144	Grid 9 0.108	Peak E-field in V/m <table><tr><td>Grid 1 63.2</td><td>Grid 2 50.4</td><td>Grid 3 52.1</td></tr><tr><td>Grid 4 60.3</td><td>Grid 5 67.9</td><td>Grid 6 68.6</td></tr><tr><td>Grid 7 51.0</td><td>Grid 8 71.5</td><td>Grid 9 71.5</td></tr></table>	Grid 1 63.2	Grid 2 50.4	Grid 3 52.1	Grid 4 60.3	Grid 5 67.9	Grid 6 68.6	Grid 7 51.0	Grid 8 71.5	Grid 9 71.5
Grid 1 0.153	Grid 2 0.152	Grid 3 0.123																	
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APPENDIX C: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)

E-field probe ER3DV6, SN: 2333
H-field probe H3DV6, SN: 6053
See the next 7+6 pages.

APPENDIX D: RELEVANT PAGES FROM DIPOLE VALIDATION KIT REPORT(S)

835MHz dipole CD835V3, SN: 1004
1880MHz dipole CD1880V3, SN: 1003
See the next 5+5 pages.