

HAC RF Emissions Test Report

Test report no.:	Salo_HAC_0637_17	Date of report:	2006-09-15
Template version:	1.0	Number of pages:	23
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Responsible test engineer:	Virpi Tuominen	Product contact person:	Sonja Perälä
Measurements made by:	Ari Orte		
Tested devices:	RM-198 (Hearing aid mode), HW: 12010901		
FCC ID:	LJPRM-198H	IC:	661E-RM198
Supplement reports:	Salo_HAC_0637_17_setup photos Salo_HAC_0637_18 related HAC T-coil report		
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:			

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1. SUMMARY OF HAC RF EMISSION TEST REPORT

1.1 Test Details

Period of test	2006-09-13 to 2006-09-14
SN, HW, SW and DUT numbers of tested device	SN: 004400/87/16796/9, HW: 12010901, SW: vp03.32
Batteries used in testing	BL-5C, DUT: 10803, 10295
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	190 / 836.9	149.6 – 266.1	183.1	M3 (-5dB)
GSM1900	661 / 1880.0	47.3 – 84.1	67.9	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	190 / 836.9	0.45 – 0.80	0.22	M4 (-5dB)
GSM1900	810 / 1909.8	0.14 – 0.25	0.14	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	0.47dB
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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.

2. TEST CONDITIONS

2.1 Temperature and Humidity

Ambient temperature (°C):	20.0 to 22.0
Ambient humidity (RH %):	40 to 60

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	538	12 months	2007-05
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	SML03	101265	12 months	2007-07
Amplifier	ZHL-42 (SMA)	N072095-5	12 months	2007-07
Power Meter	NRVS	849305/028	12 months	2007-07
Power Sensor	NRV-Z32	839176/020	12 months	2007-07
Radio Communication Tester	CMU 200	104983	-	-

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	0.439	162.1
		± 10% window	0.395 – 0.483	145.9 – 178.3
	2006-09-14 2006-09-15	Dipole, SN: 1004	0.481	171.5
1880MHz		Reference result	0.444	133.9
		± 10% window	0.400 – 0.488	120.5 – 147.3
	2006-09-14	Dipole, SN: 1004	0.455	130.6

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

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

T-coil measurements are not subject of this report. See the report Salo_HAC_0637_18.

4.2 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.

4.3 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

4.4 Slot Averaged Calculation Method

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

4.5 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).

4.6 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

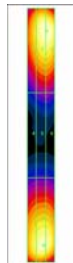
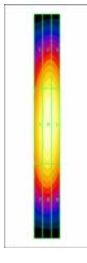
Mode	Flip option	Test configuration	Ch 128 824.2MHz	Ch 190 836.6MHz	Ch 251 848.8MHz
GSM850	Flip open	E-field (V/M)	156.9	183.1	179.0
		H-field (A/m)	0.178	0.215	0.211
		Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)

GSM1900, E and H RF emissions results

Mode	Flip option	Test configuration	Ch 512 1850.2MHz	Ch 661 1880.0MHz	Ch 810 1909.8MHz
GSM1900	Flip open	E-field (V/M)	53.4	67.9	56.4
		H-field (A/m)	0.123	0.125	0.144
		Category	M3 (-5dB)	M3 (-5dB)	M3 (-5dB)

Plots of the maximum measurement scans are given in Appendix B. Excluded cells are coloured orange.

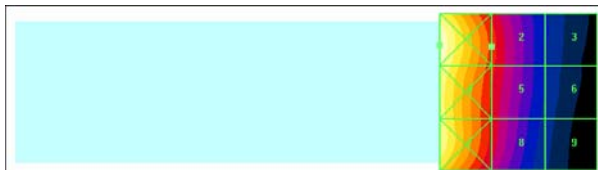
APPENDIX A: SYSTEM VALIDATION SCANS

Date/Time: 2006-09-14 10:07:14 Test Laboratory: TCC Nokia, Salo Laboratory Type: D835V3; Serial: SN1004	Date/Time: 2006-09-15 11:15:53 Test Laboratory: TCC Nokia, Salo Laboratory Type: D835V3; Serial: SN1004																																				
Communication System: CW Frequency: 835 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Dipole Section	Communication System: CW Frequency: 835 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Dipole Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - ; Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																																				
E Scan - ER probe center 10mm above CD835 Dipole (P=100mW)/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 173.5 V/m Probe Modulation Factor = 1.00 Reference Value = 115.1 V/m; Power Drift = 0.014 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)	H Scan - H3DV6 probe center 10mm above CD835 Dipole 2/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.481 A/m Probe Modulation Factor = 1.00 Reference Value = 0.513 A/m; Power Drift = -0.012 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)																																				
Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>154.3</td><td>173.4</td><td>173.5</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>85.1</td><td>94.4</td><td>94.4</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>161.9</td><td>169.5</td><td>168.7</td></tr></table>	Grid 1	Grid 2	Grid 3	154.3	173.4	173.5	Grid 4	Grid 5	Grid 6	85.1	94.4	94.4	Grid 7	Grid 8	Grid 9	161.9	169.5	168.7	Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.392</td><td>0.424</td><td>0.411</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.447</td><td>0.481</td><td>0.464</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.388</td><td>0.416</td><td>0.397</td></tr></table>	Grid 1	Grid 2	Grid 3	0.392	0.424	0.411	Grid 4	Grid 5	Grid 6	0.447	0.481	0.464	Grid 7	Grid 8	Grid 9	0.388	0.416	0.397
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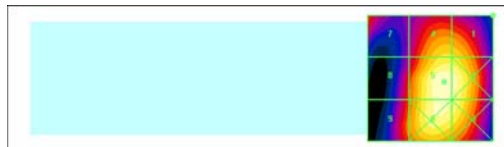
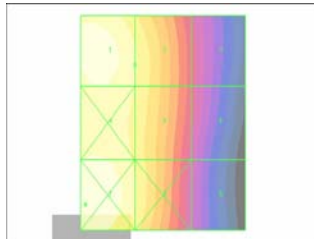
Date/Time: 2006-09-14 10:50:02	Date/Time: 2006-09-14 10:37:17																		
Test Laboratory: TCC Nokia, Salo Laboratory Type: CD1880V3; Serial: SN:1003	Test Laboratory: TCC Nokia, Salo Laboratory Type: CD1880V3; Serial: S/N=1003																		
Communication System: CW Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m ³ Phantom section: E Dipole Section	Communication System: CW Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m ³ Phantom section: H Dipole Section																		
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E Scan - ER probe center 10mm above CD1880 Dipole (P=100mW)/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 134.2 V/m Probe Modulation Factor = 1.00 Reference Value = 137.1 V/m; Power Drift = 0.004 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)	H Scan - H3DV6 probe center 10mm above CD1880 Dipole (P=100mW)/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.455 A/m Probe Modulation Factor = 1.00 Reference Value = 0.480 A/m; Power Drift = -0.004 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)																		
Peak E-field in V/m <table><tr><td>Grid 1 120.8</td><td>Grid 2 134.2</td><td>Grid 3 134.2</td></tr><tr><td>Grid 4 80.5</td><td>Grid 5 89.6</td><td>Grid 6 89.6</td></tr><tr><td>Grid 7 119.6</td><td>Grid 8 127.0</td><td>Grid 9 127.0</td></tr></table>	Grid 1 120.8	Grid 2 134.2	Grid 3 134.2	Grid 4 80.5	Grid 5 89.6	Grid 6 89.6	Grid 7 119.6	Grid 8 127.0	Grid 9 127.0	Peak H-field in A/m <table><tr><td>Grid 1 0.384</td><td>Grid 2 0.421</td><td>Grid 3 0.413</td></tr><tr><td>Grid 4 0.420</td><td>Grid 5 0.455</td><td>Grid 6 0.447</td></tr><tr><td>Grid 7 0.370</td><td>Grid 8 0.402</td><td>Grid 9 0.394</td></tr></table>	Grid 1 0.384	Grid 2 0.421	Grid 3 0.413	Grid 4 0.420	Grid 5 0.455	Grid 6 0.447	Grid 7 0.370	Grid 8 0.402	Grid 9 0.394
Grid 1 120.8	Grid 2 134.2	Grid 3 134.2																	
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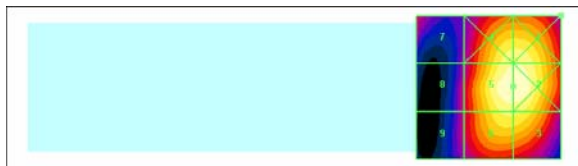
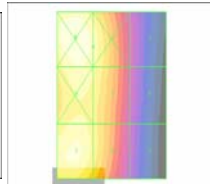
APPENDIX B: MEASUREMENT SCANS

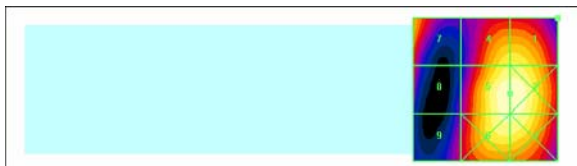
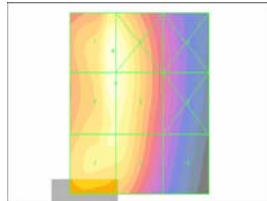
Date/Time: 2006-09-14 14:33:11 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9	Date/Time: 2006-09-14 17:45:17 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9																		
Communication System: GSM850 Frequency: 824.2 MHz; Duty Cycle: 1:8.1 Medium: Air; Medium Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM850 Frequency: 824.2 MHz; Duty Cycle: 1:7 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																		
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																		
E Scan - ER probe tip 10mm above Device Reference low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 156.9 V/m Probe Modulation Factor = 2.85 Reference Value = 61.2 V/m; Power Drift = 0.038 dB	H Scan - H3DV6 probe tip 10mm above Device Reference low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.178 A/m Probe Modulation Factor = 2.65 Reference Value = 0.053 A/m; Power Drift = -0.145 dB																		
Peak E-field in V/m <table><tr><td>Grid 1 130.9</td><td>Grid 2 139.8</td><td>Grid 3 129.4</td></tr><tr><td>Grid 4 145.8</td><td>Grid 5 156.9</td><td>Grid 6 146.6</td></tr><tr><td>Grid 7 143.5</td><td>Grid 8 155.2</td><td>Grid 9 145.1</td></tr></table>	Grid 1 130.9	Grid 2 139.8	Grid 3 129.4	Grid 4 145.8	Grid 5 156.9	Grid 6 146.6	Grid 7 143.5	Grid 8 155.2	Grid 9 145.1	Peak H-field in A/m <table><tr><td>Grid 1 0.266</td><td>Grid 2 0.176</td><td>Grid 3 0.102</td></tr><tr><td>Grid 4 0.258</td><td>Grid 5 0.176</td><td>Grid 6 0.106</td></tr><tr><td>Grid 7 0.265</td><td>Grid 8 0.178</td><td>Grid 9 0.106</td></tr></table>	Grid 1 0.266	Grid 2 0.176	Grid 3 0.102	Grid 4 0.258	Grid 5 0.176	Grid 6 0.106	Grid 7 0.265	Grid 8 0.178	Grid 9 0.106
Grid 1 130.9	Grid 2 139.8	Grid 3 129.4																	
Grid 4 145.8	Grid 5 156.9	Grid 6 146.6																	
Grid 7 143.5	Grid 8 155.2	Grid 9 145.1																	
Grid 1 0.266	Grid 2 0.176	Grid 3 0.102																	
Grid 4 0.258	Grid 5 0.176	Grid 6 0.106																	
Grid 7 0.265	Grid 8 0.178	Grid 9 0.106																	
																			

Date/Time: 2006-09-14 14:37:38 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9	Date/Time: 2006-09-14 17:50:18 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9																																				
Communication System: GSM850 Frequency: 836.6 MHz; Duty Cycle: 1:8.1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM850 Frequency: 836.6 MHz; Duty Cycle: 1:7 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																																				
E Scan - ER probe tip 10mm above Device Reference mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 183.1 V/m Probe Modulation Factor = 2.85 Reference Value = 72.1 V/m; Power Drift = -0.016 dB	H Scan - H3DV6 probe tip 10mm above Device Reference mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.215 A/m Probe Modulation Factor = 2.65 Reference Value = 0.061 A/m; Power Drift = -0.042 dB																																				
Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>150.8</td><td>161.9</td><td>148.5</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>170.0</td><td>183.1</td><td>170.7</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>167.4</td><td>181.5</td><td>169.3</td></tr></table>	Grid 1	Grid 2	Grid 3	150.8	161.9	148.5	Grid 4	Grid 5	Grid 6	170.0	183.1	170.7	Grid 7	Grid 8	Grid 9	167.4	181.5	169.3	Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.323</td><td>0.215</td><td>0.125</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.312</td><td>0.212</td><td>0.122</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.307</td><td>0.201</td><td>0.115</td></tr></table>	Grid 1	Grid 2	Grid 3	0.323	0.215	0.125	Grid 4	Grid 5	Grid 6	0.312	0.212	0.122	Grid 7	Grid 8	Grid 9	0.307	0.201	0.115
Grid 1	Grid 2	Grid 3																																			
150.8	161.9	148.5																																			
Grid 4	Grid 5	Grid 6																																			
170.0	183.1	170.7																																			
Grid 7	Grid 8	Grid 9																																			
167.4	181.5	169.3																																			
Grid 1	Grid 2	Grid 3																																			
0.323	0.215	0.125																																			
Grid 4	Grid 5	Grid 6																																			
0.312	0.212	0.122																																			
Grid 7	Grid 8	Grid 9																																			
0.307	0.201	0.115																																			
																																					

Date/Time: 2006-09-14 14:42:11 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9	Date/Time: 2006-09-14 17:57:45 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9																																				
Communication System: GSM850 Frequency: 848.8 MHz; Duty Cycle: 1:8.1 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: GSM850 Frequency: 848.8 MHz; Duty Cycle: 1:7 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																																				
E Scan - ER probe tip 10mm above Device Reference high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 179.0 V/m Probe Modulation Factor = 2.85 Reference Value = 70.3 V/m; Power Drift = 0.024 dB	H Scan - H3DV6 probe tip 10mm above Device Reference high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.211 A/m Probe Modulation Factor = 2.65 Reference Value = 0.061 A/m; Power Drift = -0.001 dB																																				
Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>152.8</td><td>163.6</td><td>152.6</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>164.5</td><td>179.0</td><td>167.2</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>158.9</td><td>173.8</td><td>163.0</td></tr></table>	Grid 1	Grid 2	Grid 3	152.8	163.6	152.6	Grid 4	Grid 5	Grid 6	164.5	179.0	167.2	Grid 7	Grid 8	Grid 9	158.9	173.8	163.0	Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.310</td><td>0.211</td><td>0.123</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.302</td><td>0.209</td><td>0.125</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.299</td><td>0.205</td><td>0.129</td></tr></table>	Grid 1	Grid 2	Grid 3	0.310	0.211	0.123	Grid 4	Grid 5	Grid 6	0.302	0.209	0.125	Grid 7	Grid 8	Grid 9	0.299	0.205	0.129
Grid 1	Grid 2	Grid 3																																			
152.8	163.6	152.6																																			
Grid 4	Grid 5	Grid 6																																			
164.5	179.0	167.2																																			
Grid 7	Grid 8	Grid 9																																			
158.9	173.8	163.0																																			
Grid 1	Grid 2	Grid 3																																			
0.310	0.211	0.123																																			
Grid 4	Grid 5	Grid 6																																			
0.302	0.209	0.125																																			
Grid 7	Grid 8	Grid 9																																			
0.299	0.205	0.129																																			
																																					

Date/Time: 2006-09-14 15:29:08 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9	Date/Time: 2006-09-14 17:26:19 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9																		
Communication System: DCS 1900 Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: E Device Section	Communication System: DCS 1900 Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 Medium: Air; Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: H Device Section																		
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: -Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																		
E Scan - ER probe tip 10mm above Device Reference low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 53.4 V/m Probe Modulation Factor = 2.88 Reference Value = 19.1 V/m; Power Drift = -0.026 dB	H Scan - H3DV6 probe tip 10mm above Device Reference low/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.136 A/m Probe Modulation Factor = 2.10 Reference Value = 0.049 A/m; Power Drift = -0.004 dB																		
Peak E-field in V/m <table><tr><td>Grid 1 47.2</td><td>Grid 2 52.5</td><td>Grid 3 51.4</td></tr><tr><td>Grid 4 47.4</td><td>Grid 5 53.4</td><td>Grid 6 52.2</td></tr><tr><td>Grid 7 39.1</td><td>Grid 8 39.8</td><td>Grid 9 42.0</td></tr></table>	Grid 1 47.2	Grid 2 52.5	Grid 3 51.4	Grid 4 47.4	Grid 5 53.4	Grid 6 52.2	Grid 7 39.1	Grid 8 39.8	Grid 9 42.0	Peak H-field in A/m <table><tr><td>Grid 1 0.136</td><td>Grid 2 0.123</td><td>Grid 3 0.081</td></tr><tr><td>Grid 4 0.133</td><td>Grid 5 0.122</td><td>Grid 6 0.081</td></tr><tr><td>Grid 7 0.142</td><td>Grid 8 0.123</td><td>Grid 9 0.076</td></tr></table>	Grid 1 0.136	Grid 2 0.123	Grid 3 0.081	Grid 4 0.133	Grid 5 0.122	Grid 6 0.081	Grid 7 0.142	Grid 8 0.123	Grid 9 0.076
Grid 1 47.2	Grid 2 52.5	Grid 3 51.4																	
Grid 4 47.4	Grid 5 53.4	Grid 6 52.2																	
Grid 7 39.1	Grid 8 39.8	Grid 9 42.0																	
Grid 1 0.136	Grid 2 0.123	Grid 3 0.081																	
Grid 4 0.133	Grid 5 0.122	Grid 6 0.081																	
Grid 7 0.142	Grid 8 0.123	Grid 9 0.076																	
	Original excluding  Changed excluding 																		

Date/Time: 2006-09-14 15:20:42 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9	Date/Time: 2006-09-14 17:30:35 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9																		
Communication System: DCS 1900 Frequency: 1880 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	Communication System: DCS 1900 Frequency: 1880 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																		
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																		
E Scan - ER probe tip 10mm above Device Reference mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 67.9 V/m Probe Modulation Factor = 2.88 Reference Value = 22.5 V/m; Power Drift = -0.003 dB	H Scan - H3DV6 probe tip 10mm above Device Reference mid/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.127 A/m Probe Modulation Factor = 2.10 Reference Value = 0.053 A/m; Power Drift = -0.082 dB																		
Peak E-field in V/m <table><tr><td>Grid 1 64.6</td><td>Grid 2 67.9</td><td>Grid 3 62.6</td></tr><tr><td>Grid 4 64.5</td><td>Grid 5 67.9</td><td>Grid 6 62.6</td></tr><tr><td>Grid 7 43.3</td><td>Grid 8 42.3</td><td>Grid 9 41.5</td></tr></table>	Grid 1 64.6	Grid 2 67.9	Grid 3 62.6	Grid 4 64.5	Grid 5 67.9	Grid 6 62.6	Grid 7 43.3	Grid 8 42.3	Grid 9 41.5	Peak H-field in A/m <table><tr><td>Grid 1 0.134</td><td>Grid 2 0.127</td><td>Grid 3 0.091</td></tr><tr><td>Grid 4 0.129</td><td>Grid 5 0.125</td><td>Grid 6 0.090</td></tr><tr><td>Grid 7 0.130</td><td>Grid 8 0.122</td><td>Grid 9 0.087</td></tr></table>	Grid 1 0.134	Grid 2 0.127	Grid 3 0.091	Grid 4 0.129	Grid 5 0.125	Grid 6 0.090	Grid 7 0.130	Grid 8 0.122	Grid 9 0.087
Grid 1 64.6	Grid 2 67.9	Grid 3 62.6																	
Grid 4 64.5	Grid 5 67.9	Grid 6 62.6																	
Grid 7 43.3	Grid 8 42.3	Grid 9 41.5																	
Grid 1 0.134	Grid 2 0.127	Grid 3 0.091																	
Grid 4 0.129	Grid 5 0.125	Grid 6 0.090																	
Grid 7 0.130	Grid 8 0.122	Grid 9 0.087																	
	Original excluding  Changed excluding 																		

Date/Time: 2006-09-14 15:44:06 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9	Date/Time: 2006-09-14 17:36:21 Test Laboratory: TCC Nokia, Salo Laboratory Type: RM-198; Serial: 004400/87/16796/9																																				
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	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																																				
DASY4 Configuration: - Probe: ER3DV6 - SN2333; - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171	DASY4 Configuration: - Probe: H3DV6 - SN6053; Probe Notes: - Calibrated: 2006-01-24 - Sensor-Surface: (Fix Surface) - Electronics: DAE4 Sn538; Calibrated: 2006-05-17 - Phantom: HAC Test Arch; Type: SD HAC P01 BA; - Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171																																				
E Scan - ER probe tip 10mm above Device Reference high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 56.4 V/m Probe Modulation Factor = 2.88 Reference Value = 18.1 V/m; Power Drift = 0.031 dB	H Scan - H3DV6 probe tip 10mm above Device Reference high/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.142 A/m Probe Modulation Factor = 2.10 Reference Value = 0.055 A/m; Power Drift = 0.467 dB																																				
Peak E-field in V/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>51.9</td><td>56.4</td><td>55.0</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>51.8</td><td>56.4</td><td>55.0</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>47.3</td><td>39.6</td><td>37.2</td></tr></table>	Grid 1	Grid 2	Grid 3	51.9	56.4	55.0	Grid 4	Grid 5	Grid 6	51.8	56.4	55.0	Grid 7	Grid 8	Grid 9	47.3	39.6	37.2	Peak H-field in A/m <table><tr><td>Grid 1</td><td>Grid 2</td><td>Grid 3</td></tr><tr><td>0.144</td><td>0.143</td><td>0.099</td></tr><tr><td>Grid 4</td><td>Grid 5</td><td>Grid 6</td></tr><tr><td>0.142</td><td>0.142</td><td>0.100</td></tr><tr><td>Grid 7</td><td>Grid 8</td><td>Grid 9</td></tr><tr><td>0.134</td><td>0.133</td><td>0.094</td></tr></table>	Grid 1	Grid 2	Grid 3	0.144	0.143	0.099	Grid 4	Grid 5	Grid 6	0.142	0.142	0.100	Grid 7	Grid 8	Grid 9	0.134	0.133	0.094
Grid 1	Grid 2	Grid 3																																			
51.9	56.4	55.0																																			
Grid 4	Grid 5	Grid 6																																			
51.8	56.4	55.0																																			
Grid 7	Grid 8	Grid 9																																			
47.3	39.6	37.2																																			
Grid 1	Grid 2	Grid 3																																			
0.144	0.143	0.099																																			
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0.142	0.142	0.100																																			
Grid 7	Grid 8	Grid 9																																			
0.134	0.133	0.094																																			
	Original excluding  Changed excluding 																																				

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.