

Page: 1 of 72

Report Ver:1.0

FCC ID: QMNRM-339

HAC TEST REPORT

<RF-Emission>

Applicant Name	Nokia Inc.
Address of Applicant	12278 Scripps Summit Dr., San Diego, CA92131, USA
EUT Type	Cellular/PCS CDMA Phone with Bluetooth(BT2.0+EDR)
Model Number	RM-339
Date of receive	2008.07.03
Date of Test(s)	2008.07.04,2008.07.23
Date of Issue	2008.07.25

Standards:

ANSI C63.19-2006 v3.12

FCC RULE PART(S): 47 CFR PART 20.19(B) HAC RATE CATEGORY: M4 (M Category)

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

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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arbert Chang Vicky Wrang Tested by: Approved by:

Ricky Huang Robert Chang

Sr. Engineer Date: 2008/07/25 Tech Manager Date: 2008/07/25

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Page: 2 of 72

Report Ver:1.0

FCC ID: QMNRM-339

Table of Contents

1. Introduction	3
2. Testing Laboratory	4
3. Details of Applicant/Manufacturer	5
4. Description of EUT	6
5. Test Environment	7
6. System Specifications of DASY4	7
7. Measurement Procedure	9
8. System Verification	10
9. Probe Modulation Factor	11
10. Test Standards and Limits	13
11. Instruments List	14
12. Summary of Results	15
13. Measurement Data	16
14. SYSTEM Verification	40
15. DAE & Probe Calibration certificate	48
16. Uncertainty Analysis	67
17. System Validation from Original equipment supplier	68

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Page: 3 of 72

Report Ver:1.0 FCC ID: QMNRM-339

1. Introduction

The purpose of the Hearing Aid Compatibility extension is to enable measurements of the near electric and magnetic fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2006

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

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

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

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

Hence, the following are measurements made for the WD:

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

The measurement plane is parallel to, and 1.0cm in front of, the reference plane.

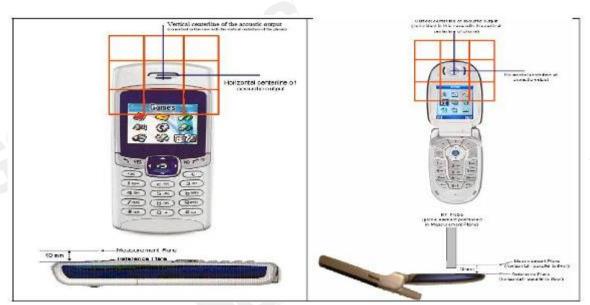
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Page: 4 of 72

Report Ver:1.0 FCC ID: QMNRM-339



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

2. Testing Laboratory

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

Version of Report

Version Number	Date
1.0	2008.07.25

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SGS Taiwan Ltd.



Page: 5 of 72

Report Ver:1.0 FCC ID: QMNRM-339

3. Details of Applicant/Manufacturer

3.1 Details of Applicant

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Applicant Name	Nokia Inc.
Applicant Address	12278 Scripps Summit Dr. San Diego, CA92131, USA
Applicant Telephone	+1-858-602-2581
Applicant Contact Person	Nixon Wang
E-mail address	nixon.wang@nokia.com

3.2 Details of Manufacturer

Manufacturer Name	Foxconn International Holdings Limited	
Manufacturer Address	No.2, 2nd DongHuan Road, 10th YouSong Industrial	
	District, Longhua Town, Baoan, Shenzhen, GuangDong,	
	China	
Manufacturer Contact Person	James Lee	
Manufacturer mailing address	JamesLee@fihtdc.com	
Tel	+886-2-22685511	

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Page: 6 of 72

Report Ver:1.0 FCC ID: QMNRM-339

4. Description of EUT

EUT Type	Cellular/PCS CDN	//A Phone	with Blue	etooth(BT2.0+EDR)	
Mode(s) of Operation	cdma2000 Dual Band				
FCC ID	QMNRM-339				
Hardware Version		60	00		
Software Version		6000 KN_3600T6_VZW			
TX Frequency range	Cellular	1111_3000	/10_VZV	US PCS	
(MHz)	824.7-848.	31	18	51.25-1908.75	
Channel Number (ARFCN)	1013-777	7		25-1175	
	Cellular (Clam	open) Cellu		lar (Clam closed)	
Maximum Output	24.22			24.68	
Power Setting (dBm)	US PCS (Clam	n open) US P		CS(Clam closed)	
	22.86			23.42	
Duty Cycle	1				
MEID	A00000011E5869				
Maximum RF Conducted	Cellular (Clam open)				
Power(Average)	CH1013	CH3	84	CH777	
	23.87dbm	24.22	dbm	23.96dbm	
	Cellular (Clam closed)				
	CH1013	CH384		CH777	
	24.22dbm	24.68dbm		24.31dbm	
	US PCS (Clam open)				
	CH25	CH600		CH1175	
	22.86dbm	22.76dbm		22.71dbm	
	US PCS (Clam closed)				
	CH25	CH600		CH1175	
	23.42dbm	23.26	dbm	23.18dbm	

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Page: 7 of 72

Report Ver:1.0 FCC ID: QMNRM-339

5. Test Environment

Ambient Temperature	22.2° C
Relative Humidity	<60 %

6. System Specifications of DASY4

6.1 Measurement system Diagram for SPEAG Robotic

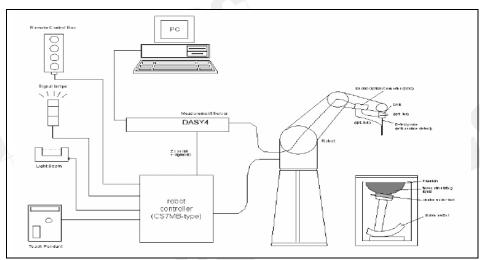


Fig 1. The SPEAG Robotic Diagram

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

- A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- E and H Field probe.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.

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Page: 8 of 72

Report Ver:1.0 FCC ID: QMNRM-339

- A computer operating Windows 2000 or Windows XP.
- DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch phantom.
- The device holder for handheld mobile phones.
- Validation dipole kits allowing to validate the proper functioning of the system.

6.2 E and H Field Probe

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material	
Calibration	In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$, k=2)	14/19
Frequency	100 MHz to > 6 GHz (extended to 20 MHz for MRI), Linearity: \pm 0.2 dB (100 MHz to 3 GHz)	
		ER3DV6 E-Field Probe
Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)	s)
Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB	
Dimensions	Overall length: 330 mm (Tip: 16 mm) Tip diameter: 8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.	5 mm
Application	General near-field measurements up to 6 GF Field component measurements Fast automatic scanning in phantoms	l z

Construction	Three concentric loop sensors with 3.8 mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)	
Frequency	200 MHz to 3 GHz (absolute accuracy ± 6.0%, k=2); Output linearized	
		H3DV6 H-Field Probe

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Page: 9 of 72

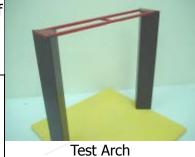
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Directivity	± 0.2 dB (spherical isotropy error)
Dynamic Range	10 mA/m to 2 A/m at 1 GHz
E-Field	< 10% at 3 GHz (for plane wave)
Interference	

Overall length: 330 mm (Tip: 40 mm) Tip diameter: 6 mm (Body: 12 mm) Distance from probe tip to dipole centers: 3 mm
General magnetic near-field measurements up to 3 GHz (in air or liquids) Field component measurements Surface current measurements Low interaction with the measured field

6.3 Test Arch

Description	Enables easy and well defined positioning of	
	the phone and validation dipoles as well as	
	simple teaching of the robot.	
Dimensions	length: 370 mm	
	width: 370 mm	
	height: 370 mm	



6.4 Phone Holder

Description	Supports accurate and reliable positioning	-
	of any phone Effect on near field <+/- 0.5	1
	dB	



7. Measurement Procedure

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

1. Proper operation of the field probe, probe measurement system, other instrumentation,

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FCC ID: QMNRM-339

Page: 10 of 72

and the positioning system was confirmed.

- 2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.
- 3. the WD operation for maximum rated RF output power was configured and confirmed with the base station simulator, at the test channel and other normal operating parameters as intended for the test. The battery was ensured to be fully charged before each test.

Report Ver:1.0

- 4. the center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The WD audio output was positioned tangent (as physically possible) to the measurement plane.
- 5. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC Phantom.
- 6. The measurement system measured the field strength at the reference location.
- 7. Measurements at 2mm increments in the 5×5 cm region were performed and recorded. A 360° rotation about the azimuth axis at the maximum interpolated position was measured. For the worst-case condition, the peak reading from this rotation was used in re-evaluating the HAC category.
- 8. The system performed a drift evaluation by measuring the field at the reference location.
- 9. Steps 1-8 were done for both the E and H-Field measurements.

8. System Verification

A dipole antenna meeting the requirements given in PC63.19 was placed in the position normally occupied by the WD.

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

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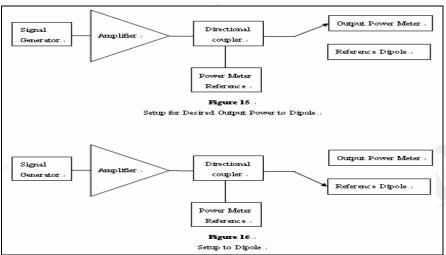
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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page: 11 of 72

Report Ver:1.0

FCC ID: QMNRM-339



For E-Field Scan

TOTE TICK Scall						
Mode	Mode Frequency		Measured	Target	Measured	
	(MHz)	Power(dBm)	Value(V/m)	Value(V/m)	Date	
CW	835	20	172.1	165.2	2008/07/04	
Mode	Frequency	Input	Measured	Target	Measured	
	(MHz)	Power(dBm)	Value(V/m)	Value(V/m)	Date	
CW	1880	20	141.4	135.6	2008/07/23	

For H-Field Scan

Mode	Frequency	Input	Measured	Target	Measured
		Power	Value(V/m)	Value(V/m)	Date
CW	835	20	0.448	0.457	2007/07/04
Mode	Frequency	Input	Measured	Target	Measured
		Power	Value(V/m)	Value(V/m)	Date
CW	1880	20	0.464	0.460	2007/07/23

9. Probe Modulation Factor

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

- 1. Install the field probe in the DASY4 window setup.
- 2. Mount a validation dipole for the appropriate frequency band under the Test Arch. Move the probe manually to a point of high field strength for the specific field type. The probe may

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Page: 12 of 72

Report Ver:1.0

FCC ID: QMNRM-339

be very close to the dipole and might even touch it. During the fine adjustment of the probe with a signal applied to the dipole, read the x, y and z channel amplitudes in a multimeter job. They should all show a similar amplitude.

3. For comparing the peak amplitudes of modulated and CW signal, the same spectrum analyzer settings are required. The signal path (and setup geometry) between spectrum analyzer and probe must not be changed during the evaluation of the PMF! Only signal type and amplitudes as well as DASY4 settings may be varied.

Spectrum analyzer settings:

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

The HAC measurement procedure is as follows:

- 6. Prepare the evaluation sheet for the installed field probe, frequency and modulation type.
- 7. Modulated signal measurement: Connect the modulated signal using the appropriate frequency via the cable to the setup. Do not move the setup between the following measurements.
- 8. Run the multimeter job in the procedure with the corresponding modulation setting in continuous mode.
- 9. Adjust the signal amplitude to achieve the desired field level display in the multimeter. (A number of levels over the full dynamic range of the probe in the desired range shall be set, including the values read during the WD scans.)
- 10. Read the total field for the modulated signal.
- 11. Read the peak envelope signal on the spectrum analyzer.

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FCC ID: QMNRM-339

Page: 13 of 72

12. Repeat these readings for other amplitude settings.

13. Switch the signal source off and verify that the ambient and instrumentation noise level is at least 10dB lower (a factor of 3 in field).

Report Ver:1.0

- 14. CW measurement: Change the signal to CW at the same center frequency, without touching or moving dipole or probe in the setup.
- 15. Adjust the CW signal amplitude to a similar range of peak levels on the spectrum analyzer.
- 16. Run the multimeter in the CW procedure in continuous mode.
- 17. Read the multimeter total field display.
- 18. Read the signal on the spectrum analyzer.
- 19. Repeat these readings for other amplitude settings.
- 20. Select the correct type of predefined Excel calculation sheet and insert the readings into the appropriate measurement columns. Conversion from linear DASY readings to logarithmic will be automatically made. The diagrams contain fitting curves for the logarithmic quantities.

CW and E-field values will be fitted by linear trendlines, H-field values by quadratic.

10. Test Standards and Limits

The measurements were performed to ensure compliance to the ANSI PC63.19-2006 rd 3.12 standard,

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

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FCC ID: QMNRM-339

Page: 14 of 72

Report Ver:1.0

11. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration
Schmid & Partner	E-Field and H-Field	ER3DV6	2306	Apr.17.2008
Engineering AG	Probe	H3DV6	6142	Apr.21.2008
Schmid & Partner Engineering AG	1880 MHz System Validation Dipole In Air	CD835V3	1052	Apr.10.2008
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	547	Jan.24.2008
Schmid & Partner Engineering AG	Software	DASY 4 V4.7 Build 55	N/A	Calibration isn't necessary
Agilent	Dielectric Probe Kit	85070D	US01440168	Calibration isn't necessary
Agilent	Dual-directional coupler	778D	50313	Aug.21.2007
Agilent	RF Signal Generator	8648D	3847M00432	May.21.2008
Agilent	Power Sensor	8481H	MY41091361	May.20.2008
R&S	Radio Communication Test	CMU200	113508	Aug.24.2007
Schmid & Partner Engineering AG	Test Arch SD HAC	P01	1047	N/A
Agilent	Spectrum Analyzer	E4405B	MY45113250	Jun.03.2008

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Page: 15 of 72

Report Ver:1.0 FCC ID: QMNRM-339

12. Summary of Results

F-Filed

L-I IICa								
E-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (V/m)	RESULT	Excl Blocks per 4.3.1.2.2
		1013	0.991	23.87	0.056	88.5	M4	689
CDMA	Cellular	384	0.991	24.22	0.122	87.3	M4	689
		777	0.991	23.96	-0.097	109.9	M4	689
E-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (V/m)	RESULT	Excl Blocks per 4.3.1.2.2
1		25	0.986	22.86	0.42	55.9	M4	236
CDMA	US PCS	600	0.986	22.76	-0.021	59.6	M4	236
		1175	0.986	22.71	-0.149	53.6	M4	236

H-Filed

H-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (A/m)	RESULT	Excl Blocks per 4.3.1.2.2
		1013	0.987	23.87	0.123	0.106	M4	147
CDMA	Cellular	384	0.987	24.22	-0.130	0.108	M4	147
		777	0.987	23.96	0.021	0.135	M4	147
H-Field Emission	Band	Channel	Modulation Factor	Conducte d Power at BS (dBm)	Measured Drift(%)	Time Avg. Field (A/m)	RESULT	Excl Blocks per 4.3.1.2.2
		25	0.975	22.86	0.107	0.142	M4	147
CDMA	US PCS	600	0.975	22.76	-0.103	0.153	M4	147
		1175	0.975	22.71	-0.136	0.139	M4	147

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FCC ID: QMNRM-339

Page: 16 of 72

Report Ver:1.0

13. Measurement Data

Date/Time: 2008/7/4 12:01:02

HAC_E_Cellular_CH1013

DUT: RM-339; Type: CDMA;

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

Phantom section: E Device Section

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 88.5 V/m

Probe Modulation Factor = 0.991

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 96.1 V/m; Power Drift = 0.056 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
73.4 M4	79.4 M4	73.9 M4
Grid 4	Grid 5	Grid 6
81.0 M4	88.5 M4	82.4 M4
Grid 7	Grid 8	Grid 9
78.9 M4	85.8 M4	80.4 M4

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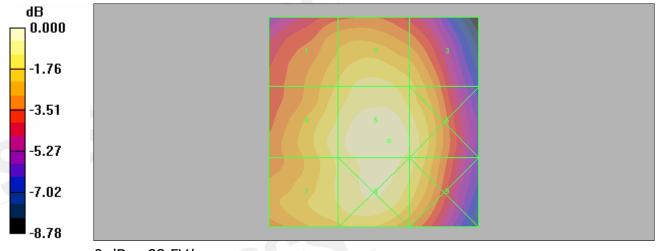


FCC ID: QMNRM-339

Page: 17 of 72

Report Ver:1.0

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
-4-30			
M3	0	199.5 - 354.8	0.6 - 1.07
M3	-5		0.6 - 1.07
M3 M4			



0 dB = 88.5V/m

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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 18 of 72

Report Ver:1.0 FC

FCC ID: QMNRM-339

Date/Time: 2008/7/4 12:36:58

HAC_E_Cellular_CH384

DUT: RM-339; Type: CDMA;

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

Phantom section: E Device Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 87.3 V/m

Probe Modulation Factor = 0.991

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 93.3 V/m; Power Drift = 0.122 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
70.9 M4	77.7 M4	73.8 M4
Grid 4	Grid 5	Grid 6
79.1 M4	87.3 M4	81.7 M4
Grid 7	Grid 8	Grid 9
77.8 M4	85.5 M4	80.5 M4

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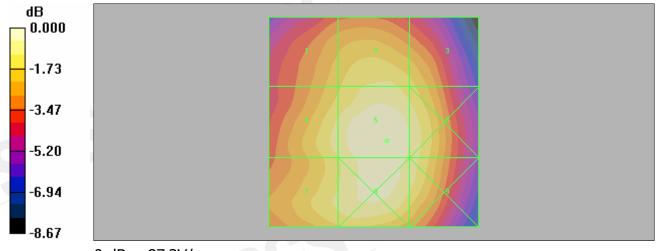
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Page: 19 of 72

Report Ver:1.0	FCC ID:	QMNRM-339
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AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
0	631 - 1122	1.91 - 3.39
-5	473.2 - 841.4	1.43 - 2.54
0	354.8 - 631	1.07 - 1.91
-5	266.1 - 473.2	0.8 - 1.43
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
_	4100 F	<0.6
0	<199.5	<0.0
	(dB) 0 -5 0 -5 0 -5 AWF (dB) 0 -5 0 -5 0 -5 0 -5 0 -5	(dB) 960MHz 0 199.5 - 354.8 -5 149.6 - 266.1 0 112.2 - 199.5 -5 84.1 - 149.6 0 63.1 - 112.2 -5 47.3 - 84.1 0 <63.1 -5 <47.3 AWF (dB) 960MHz 0 631 - 1122 -5 473.2 - 841.4 0 354.8 - 631 -5 266.1 - 473.2 0 199.5 - 354.8 -5 149.6 - 266.1



0 dB = 87.3V/m

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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 20 of 72

Report Ver:1.0 F

FCC ID: QMNRM-339

Date/Time: 2008/7/4 13:13:07

HAC_E_Cellular_CH777

DUT: RM-339; Type: CDMA;

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

Phantom section: E Device Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 109.9 V/m

Probe Modulation Factor = 0.991

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 120.1 V/m; Power Drift = -0.097 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
91.7 M4	98.7 M4	92.4 M4
Grid 4	Grid 5	Grid 6
102.9 M4	109.9 M4	102.2 M4
Grid 7	Grid 8	Grid 9
99.5 M4	108.7 M4	100.3 M4

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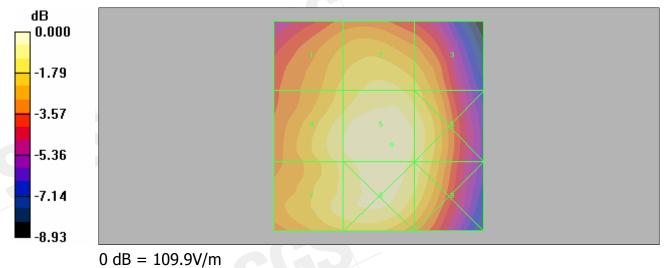
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Page: 21 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
16	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	U	1233.5	



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Report No.: ES/2008/70016 Date of Issue:2008.07.25 Page: 22 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/4 09:31:48

HAC_H_Cellular_CH1013

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.106 A/m

Probe Modulation Factor = 0.987

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.087 A/m; Power Drift = 0.123 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.159 M4	0.106 M4	0.060 M4
Grid 4	Grid 5	Grid 6
0.153 M4	0.106 M4	0.062 M4
Grid 7	Grid 8	Grid 9
0.148 M4	0.103 M4	0.057 M4

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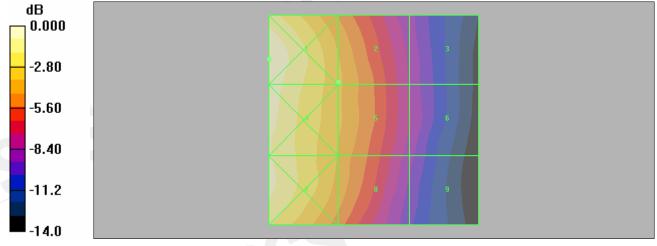


Page: 23 of 72

Report

Ver:1.0	FCC	ID:	QMNRM-33	39

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



0 dB = 0.159A/m

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SGS Taiwan Ltd.



Report No.: ES/2008/70016 Date of Issue:2008.07.25 Page: 24 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/4 09:59:51

HAC_H_Cellular_CH384

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.108 A/m

Probe Modulation Factor = 0.987

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.090 A/m; Power Drift = -0.130 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.160 M4	0.108 M4	0.061 M4
Grid 4	Grid 5	Grid 6
0.156 M4	0.108 M4	0.062 M4
Grid 7	Grid 8	Grid 9
0.151 M4	0.103 M4	0.055 M4

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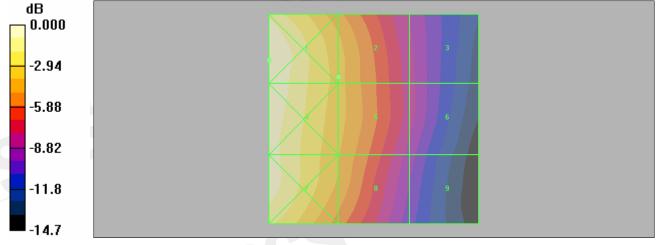


FCC ID: QMNRM-339

Page: 25 of 72

Report Ver:1.0

M2 0 119.6 - 266.1 0.45 - 0.8 M2 0 112.2 - 199.5 0.34 - 0.6 -5 84.1 - 149.6 0.25 - 0.45 M3 0 63.1 - 112.2 0.19 - 0.34 -5 47.3 - 84.1 0.14 - 0.25 M4 0 <63.1 <0.19 -5 <47.3 <0.14 Category (dB) Limits for E-Field Emissions (V/m) < Limits for H-Field Emissions (A/m) < 960 MHz M1 0 631 - 1122 1.91 - 3.39 -5 473.2 - 841.4 1.43 - 2.54 M2 0 354.8 - 631 1.07 - 1.91 -5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5 <0.6				
M2 0 1149.6 - 266.1 0.45 - 0.8 M2 0 112.2 - 199.5 0.34 - 0.6 -5 84.1 - 149.6 0.25 - 0.45 M3 0 63.1 - 112.2 0.19 - 0.34 -5 47.3 - 84.1 0.14 - 0.25 M4 0 <63.1	Category			
M2 0 112.2 - 199.5 0.34 - 0.6 -5 84.1 - 149.6 0.25 - 0.45 M3 0 63.1 - 112.2 0.19 - 0.34 -5 47.3 - 84.1 0.14 - 0.25 M4 0 <63.1	M1	0	199.5 - 354.8	0.6 - 1.07
M3 0 63.1 - 149.6 0.25 - 0.45 M3 0 63.1 - 112.2 0.19 - 0.34 -5 47.3 - 84.1 0.14 - 0.25 M4 0 <63.1		-5	149.6 - 266.1	0.45 - 0.8
M3 0 63.1 - 112.2 0.19 - 0.34 -5 47.3 - 84.1 0.14 - 0.25 M4 0 <63.1	M2	0	112.2 - 199.5	0.34 - 0.6
M4 0 <63.1		-5	84.1 - 149.6	0.25 - 0.45
M4 0 <63.1	M3	0	63.1 - 112.2	0.19 - 0.34
<47.3 <0.14 Category AWF (dB) Limits for E-Field Emissions (V/m) < 960 MHz Limits for H-Field Emissions (A/m) < 960 MHz M1 0 631 - 1122 1.91 - 3.39 -5 473.2 - 841.4 1.43 - 2.54 M2 0 354.8 - 631 1.07 - 1.91 -5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5		-5	47.3 - 84.1	0.14 - 0.25
Category AWF (dB) Limits for E-Field Emissions (V/m) < Limits for H-Field Emissions (A/m) < 960 MHz M1 0 631 - 1122 1.91 - 3.39 -5 473.2 - 841.4 1.43 - 2.54 M2 0 354.8 - 631 1.07 - 1.91 -5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5 <0.6	M4	0	<63.1	<0.19
Category (dB) 960 MHz 960 MHz M1 0 631 - 1122 1.91 - 3.39 -5 473.2 - 841.4 1.43 - 2.54 M2 0 354.8 - 631 1.07 - 1.91 -5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5		-5	<47.3	<0.14
-5 473.2 - 841.4 1.43 - 2.54 M2 0 354.8 - 631 1.07 - 1.91 -5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5	Category			
M2 0 354.8 - 631 1.07 - 1.91 -5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5	M1	0	631 - 1122	1.91 - 3.39
-5 266.1 - 473.2 0.8 - 1.43 M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5 <0.6		-5	473.2 - 841.4	1.43 - 2.54
M3 0 199.5 - 354.8 0.6 - 1.07 -5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5 <0.6	M2	0	354.8 - 631	1.07 - 1.91
-5 149.6 - 266.1 0.45 - 0.8 M4 0 <199.5 <0.6		-5	266.1 - 473.2	0.8 - 1.43
M4 0 <199.5 <0.6	M3	0	199.5 - 354.8	0.6 - 1.07
	167	-5	149.6 - 266.1	0.45 - 0.8
-5 <149.6 <0.45	M4	0	<199.5	<0.6
		U	1133.3	1010



0 dB = 0.160A/m

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Report No.: ES/2008/70016 Date of Issue:2008.07.25 Page: 26 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/4 10:37:15

HAC_H_Cellular_CH777

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.135 A/m

Probe Modulation Factor = 0.987

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.112 A/m; Power Drift = 0.021 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

		Grid 3
0.198 M4	0.135 M4	0.075 M4
Grid 4	Grid 5	Grid 6
0.196 M4	0.135 M4	0.076 M4
Grid 7	Grid 8	Grid 9
0.190 M4	0.130 M4	0.070 M4

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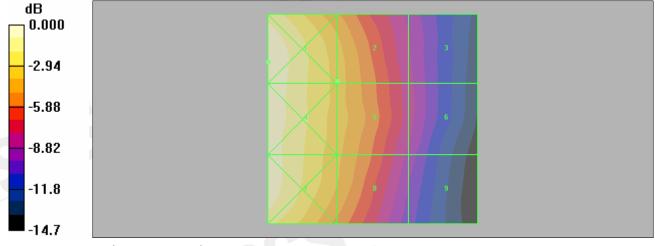


FCC ID: QMNRM-339

Page: 27 of 72

Report Ver:1.0

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
-4-30			
M3	0	199.5 - 354.8	0.6 - 1.07
M3	-5		0.6 - 1.07
M3 M4			



0 dB = 0.198A/m

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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 28 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/23 20:16:25

HAC_E_PCS_CH25

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 55.9 V/m

Probe Modulation Factor = 0.986

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 58.6 V/m; Power Drift = 0.142 dB

Test Arch Compensation is Applied.

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
39.4 M4	53.5 M4	52.5 M4
Grid 4	Grid 5	Grid 6
44.0 M4	55.9 M4	53.8 M4
Grid 7	Grid 8	Grid 9
45.7 M4	51.4 M4	49.7 M4

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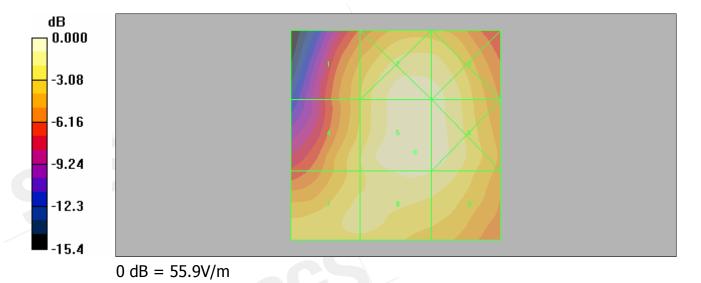


Report No.: ES/2008/70016 Date of Issue:2008.07.25 Page: 29 of 72

Report Ver:1.0

FCC ID: QMNRM-339

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category		Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	U	133.3	
	-5	<149.6	<0.45



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Report No.: ES/2008/70016 Date of Issue:2008.07.25 Page: 30 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/23 20:37:04

HAC_E_PCS_CH600

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 59.6 V/m

Probe Modulation Factor = 0.986

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 63.1 V/m; Power Drift = -0.021 dB

Test Arch Compensation is Applied.

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
42.6 M4	57.3 M4	55.8 M4
Grid 4	Grid 5	Grid 6
45.8 M4	59.6 M4	56.8 M4
Grid 7	Grid 8	Grid 9
47.9 M4	55.2 M4	53.4 M4

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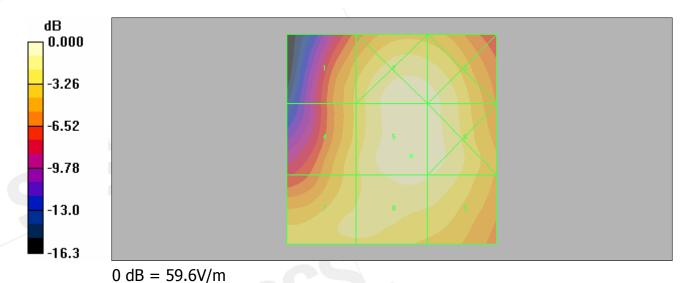


Page: 31 of 72

Report Ver:1.0

FCC	ID.	OMN	IRM	-330

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
1.1.1	U	VIJJ.5	1010



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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 32 of 72

Report Ver:1.0

FCC ID: QMNRM-339

Date/Time: 2008/7/23 20:56:03

HAC_E_PCS_CH1175

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 53.6 V/m

Probe Modulation Factor = 0.986

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 55.7 V/m; Power Drift = -0.149 dB

Test Arch Compensation is Applied.

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
35.8 M4	52.0 M4	51.5 M4
Grid 4	Grid 5	Grid 6
38.9 M4	53.6 M4	52.2 M4
Grid 7	Grid 8	Grid 9
42.4 M4	49.5 M4	48.3 M4

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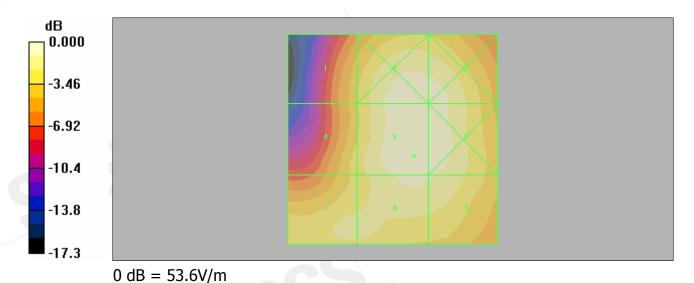
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Page: 33 of 72

		E00 ID	0141514000
Report	Ver:1.0	FCC ID:	: QMNRM-339

		1	
Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
			٠٥ ٨٢
	-5	<149.6	<0.45



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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 34 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/23 21:56:23

HAC_H_PCS_CH25

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.142 A/m

Probe Modulation Factor = 0.975

Device Reference Point: 0.000, 0.000, 353.7 mm Reference Value = 0.118 A/m; Power Drift = 0.107 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

		Grid 3
0.150 M4	0.134 M4	0.083 M4
		Grid 6
0.173 M4	0.140 M4	0.094 M4
Grid 7	Grid 8	Grid 9
0.181 M4	0.142 M4	0.095 M4

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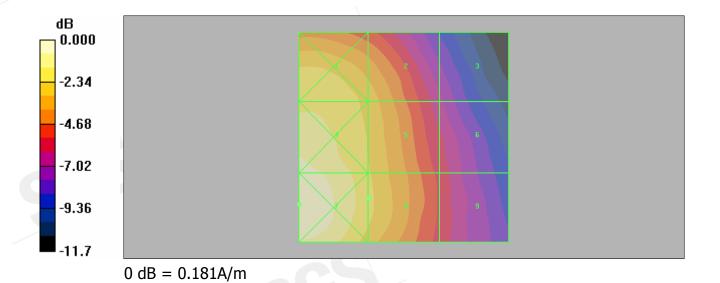


FCC ID: QMNRM-339

Page: 35 of 72

Report Ver:1.0

		1	
Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 36 of 72

Report Ver:1.0 FCC

FCC ID: QMNRM-339

Date/Time: 2008/7/23 22:18:27

HAC_H_PCS_CH600

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 0.975

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.128 A/m; Power Drift = -0.103 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

		Grid 3
0.164 M4	0.141 M4	0.085 M4
Grid 4	Grid 5	Grid 6
0.185 M4	0.149 M4	0.096 M4
Grid 7	Grid 8	Grid 9
0.193 M3	0.153 M4	0.098 M4

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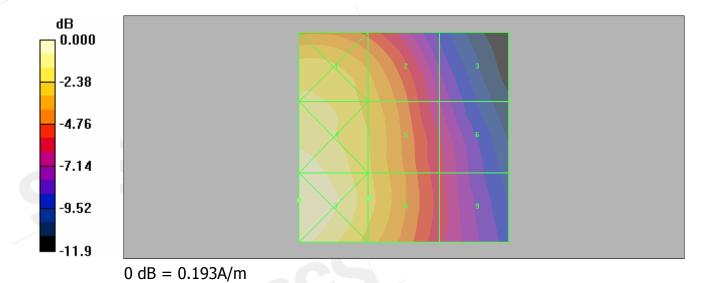
FCC ID: QMNRM-339

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Page: 37 of 72

Report Ver:1.0

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
140	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6



<149.6

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Page: 38 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/23 22:36:19

HAC_H_PCS_CH1175

DUT: RM-339; Type: CDMA;

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

Phantom section: H Device Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.139 A/m

Probe Modulation Factor = 0.975

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.117 A/m; Power Drift = -0.136 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.142 M4	0.125 M4	0.076 M4
Grid 4	Grid 5	Grid 6
0.159 M4	0.134 M4	0.087 M4
Grid 7	Grid 8	Grid 9
0.168 M4	0.139 M4	0.089 M4

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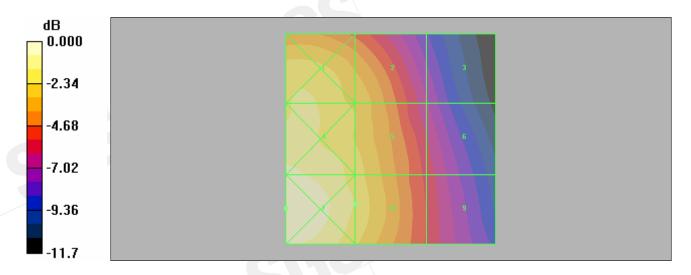


Page: 39 of 72

Report Ver:1.0

FCC ID: QMNRM-339

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
16	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	U	1233.5	



0 dB = 0.168A/m

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Page: 40 of 72

Report Ver:1.0 FCC ID: QMNRM-339

14. SYSTEM Verification

Date/Time: 2008/7/4 11:32:46

HAC_E_Dipole_835MHz

DUT: HAC-Dipole 835 MHz; Type: CD835V3

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

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

Phantom section: E Dipole Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2007/3/5

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of peak Total field = 172.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm Reference Value = 121.0 V/m; Power Drift = 0.082 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

t (886-2) 2299-3279

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
179.5 M4	180.2 M4	175.0 M4
Grid 4	Grid 5	Grid 6
94.1 M4	94.2 M4	88.9 M4
Grid 7	Grid 8	Grid 9
172.1 M4	172.1 M4	158.3 M4

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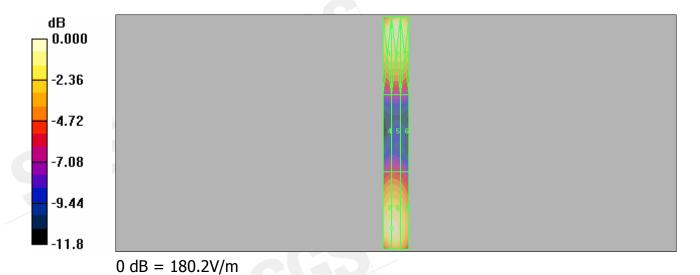
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Page: 41 of 72

Report Ver:1.0 FCC ID: QMNRM-339

AWF (dB)		Limits for H-Field Emissions (A/m) > 960MHz
0	199.5 - 354.8	0.6 - 1.07
-5	149.6 - 266.1	0.45 - 0.8
0	112.2 - 199.5	0.34 - 0.6
-5	84.1 - 149.6	0.25 - 0.45
0	63.1 - 112.2	0.19 - 0.34
-5	47.3 - 84.1	0.14 - 0.25
0	<63.1	<0.19
-5	<47.3	<0.14
AWF (dB)		Limits for H-Field Emissions (A/m) < 960 MHz
0	631 - 1122	1.91 - 3.39
-5	473.2 - 841.4	1.43 - 2.54
0	354.8 - 631	1.07 - 1.91
-5	266.1 - 473.2	0.8 - 1.43
0	199.5 - 354.8	0.6 - 1.07
_5	149.6 - 266.1	0.45 - 0.8
-5	1 1310 20011	
0	<199.5	<0.6
	(dB) 0 -5 0 -5 0 -5 AWF (dB) 0 -5 0 -5	(dB) 960MHz 0 199.5 - 354.8 -5 149.6 - 266.1 0 112.2 - 199.5 -5 84.1 - 149.6 0 63.1 - 112.2 -5 47.3 - 84.1 0 <63.1



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Page: 42 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/4 08:394

HAC_H_Dipole_835MHz

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

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2007/3/5

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

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

Maximum value of peak Total field = 0.448 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.450 A/m; Power Drift = -0.106 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.317 M4	0.384 M4	0.384 M4
Grid 4	Grid 5	Grid 6
0.371 M4	0.448 M4	0.448 M4
Grid 7	Grid 8	Grid 9
0.338 M4	0.412 M4	0.412 M4

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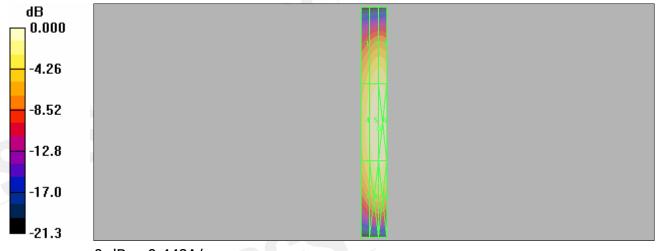
t (886-2) 2299-3279



Page: 43 of 72

Report Ver:1.0 FCC ID: QMNRM-339

	1		
Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
167	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



0 dB = 0.448A/m

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Report No. : ES/2008/70016 Date of Issue:2008.07.25 Page : 44 of 72

Report Ver:1.0 FC0

FCC ID: QMNRM-339

Date/Time: 2008/7/23 19:22:02

HAC_E_Dipole_1880MHz

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

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

Phantom section: E Dipole Section

DASY4 Configuration:

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

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of peak Total field = 135.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 163.9 V/m; Power Drift = -0.046 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
132.3 M2	135.6 M2	132.4 M2
Grid 4	Grid 5	Grid 6
89.9 M3	91.6 M3	87.3 M3
Grid 7	Grid 8	Grid 9
136.5 M2	142.7 M2	138.7 M2

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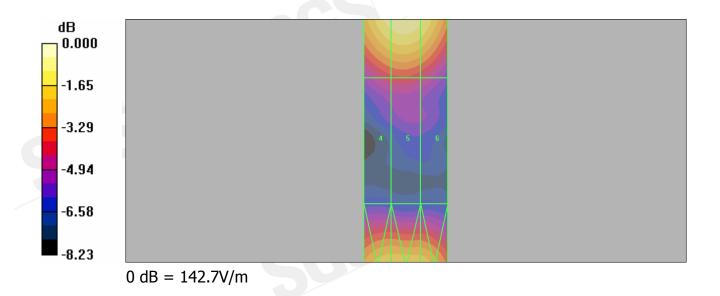


Page: 45 of 72

Report Ver:1.0

FCC	ID.	QMNRM-339	١

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



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Page: 46 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Date/Time: 2008/7/23 21:27:22

HAC_H_Dipole_1880MHz

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

Probe: H3DV6 - SN6142; ; Calibrated: 2008/4/21

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn547; Calibrated: 2008/1/24

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

Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

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

Maximum value of peak Total field = 0.460 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.488 A/m; Power Drift = -0.025 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.394 M2	0.424 M2	0.409 M2
Grid 4	Grid 5	Grid 6
0.428 M2	0.460 M2	0.446 M2
Grid 7	Grid 8	Grid 9
0.391 M2	0.420 M2	0.406 M2

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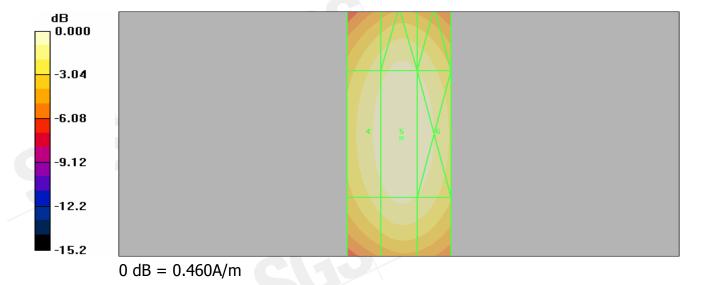
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Page: 47 of 72

Report Ver:1.0 FCC ID: QMNRM-339

Category	AWF (dB)	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14
Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
167	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45



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Page: 48 of 72

Report Ver:1.0 FCC ID: QMNRM-339

15. DAE & Probe Calibration certificate

Calibration Laboratory of S Service suisse d'étal Schmid & Partner Hac MRA C SE JORAL S Servizio svizzero di taratura Swiss Calibration Service Engineering AG sughausstrasse 43, 8004 Zurich, Switzerland Accreditation No.: SCS 108 Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates Certificate No: DAE4-547_Jan08 SGS (Auden) CALIBRATION CERTIFICATE DAE4 - SD 000 D04 BA - SN: 547 Object OA CAL-06.v12 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) January 24, 2008 Catibration date: Condition of the calibrated item In Tolerance ssurements 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) Cal Date (Calibrated by, Certificate No.) 04-Oct-07 (Elical AG, No. 6467) Scheduled Celibration Fluke Process Calibrator Type 702 SN: 6295803 Oct-08 Keithley Multimeter Type 2001 SN: 0810278 03-Oct-07 (Elcal AG, No: 6465) ID 8 Check Date (in house)
SE UMS 006 AB 1004 25-Jun-07 (SPEAG, in house check) Scheduled Check Secondary Standards In house check Jun-08 Calibrated by: Denier Hess Technician R&D Director Fin Bomholt Approved by: in Tellucs ued: January 24, 2006 This colibration certificate shall not be reproduced except in full without written approval of the laborator

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SGS Taiwan Ltd.

Certificate No: DAE4-547 Jan08

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



Page: 49 of 72

Report Ver:1.0 FCC ID: QMNRM-339

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





Service suisse d'étalonnage Servizio svizzero di taratura C as 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

Costs Nov. FR3-2306 Apr08

Object	ER3DV6 - SN:2306			
Calibration procedure(x)	QA CAL-02.v5 Calibration procevaluations in a	edure for E-field probes optimized ir	for close near field	
Calibration date:	April 17, 2008			
Condition of the calibrated item	In Tolerance			
All calibrations have been condu	cted in the closed laborate	ory facility: environment temperature (22 ± 3)°C	and humidity < 70%.	
Calibration Equipment used (M&	TE critical for calibration)			
	#170 A C	Cal Date (Certificate No.)	Scheduled Calibration	
Primary Standards	TE critical for calibration)	Cal Data (Certificate No.) 1-Apr-06 (No. 217-00788)	Scheduled Calibration Apr 08	
Primary Standards Power mater £4419B	ID #			
Primary Standards Power meter E4419B Power sensor E4412A	ID # GB41293874	1-Apr-08 (No. 217-00788)	Apr-08	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	ID # GB41293874 MY41495277	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788)	Apr-08 Apr-08	
Primary Standards Power males E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator	ID # GB41293874 MY41495277 MY41498087	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 1-Apr-08 (No. 217-00788)	Apr-08 Apr-08 Apr-09	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 8-Aug-07 (No. 217-00719) 31-Mar-06 (No. 217-00787) 8-Aug-07 (No. 217-00720)	Apr-08 Apr-09 Apr-09 Aug-08 Apr-09 Aug-08	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator	ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E33-3013_Jan05)	Apr-08 Apr-09 Apr-09 Aug-08 Apr-08 Aug-08 Jan-09	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2	(D # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (30b) SN: S5129 (30b)	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00788) 8-Aug-07 (No. 217-00719) 31-Mar-06 (No. 217-00787) 8-Aug-07 (No. 217-00720)	Apr-08 Apr-09 Apr-09 Aug-08 Apr-09 Aug-08	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 DAE4	ID # GB41293874 MY41495277 MY41498087 SN: 85054 (3c) SN: 85058 (20b) SN: 85129 (30b) SN: 3013	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E33-3013_Jan05)	Apr 08 Apr 09 Apr 09 Aug 08 Apr 08 Aug 08 Jan 09 Apr 08	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 30 dB Attenuator Reference 70 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards	ID # GB41293874 MY41495277 MY41498387 SN: S5084 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 3013 SN: 604	1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00798) 1-Apr-08 (No. 217-00719) 31-Mar-08 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E83-3013_Jan08) 20-Apr-07 (No. DAE4-684_Apr07)	Apr 08 Apr 08 Apr 09 Apr 09 Apr 09 Aug -08 Aug -08 Aug -08 Apr -08 Scheduled Check In house check: Oct-09	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generalor NF 858C	ID # GB41293874 MY41495277 MY41498067 SN: S5054 (3c) SN: S5054 (3c) SN: S5129 (30b) SN: S5129 (30b) SN: 654	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00798) 8-Aug-07 (No. 217-00787) 31-Mar-06 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E83-3013_Jan08) 20-Apr-07 (No. DAE4-654_Apr-07) Check Date (In house)	Apr 08 Apr 09 Apr 09 Aug 08 Apr 08 Aug 08 Jan 09 Apr 08	
Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator HP 8548C Network Analyzer HP 8753E	ID # GB41293874 MY41495277 MY41495267 SN: 95054 (3c) SN: 95096 (20b) SN: 95129 (30b) SN: 3013 SN: 654	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-00786) 8-Aug-07 (No. 217-00787) 31-Mar-06 (No. 217-00787) 8-Aug-07 (No. 217-00787) 8-Aug-07 (No. 217-00787) 2-Jan-08 (No. E83-3013_Jan06) 20-Apr-07 (No. DAE4-654_Apr07) Check Date (In house) 4-Aug-99 (In house check Oct-07)	Apr 08 Apr 08 Apr 09 Apr 09 Apr 09 Aug -08 Aug -08 Aug -08 Apr -08 Scheduled Check In house check: Oct-09	
Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards RF generator NF 8548C	ID # G841293874 MY41495277 MY41495277 MY41495287 SN: 85054 (3c) SN: 85058 (20b) SN: 35129 (30b) SN: 3013 SN: 654 ID # US3842U01700 US37390585	1-Apr-06 (No. 217-00788) 1-Apr-06 (No. 217-00786) 1-Apr-06 (No. 217-0078) 8-Aug-07 (No. 217-00719) 31-Mar-06 (No. 217-00787) 8-Aug-07 (No. 217-00720) 2-Jan-08 (No. E83-3013_Jan08) 20-Apr-07 (No. DAE4-654_Apr-07) Check Date (In house) 4-Aug-99 (In house check Oct-07) 18-Oct-01 (In house check Oct-07)	Apr 09 Apr 09 Apr 09 Apr 09 Aug 08 Apr 09 Aug 08 Jan 09 Apr 00 Soheduled Check In house check: Oct 09 In house check: Oct 08	

Certificate No: ER3-2306_Apr08

Page 1 of 9

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台灣檢驗科技股份有限公司



FCC ID: QMNRM-339

Page: 50 of 72

Report Ver:1.0

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





S Service suisse d'étalonnage C Servizio avizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

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Glossary:

NORMx,y,z DCP Polarization o

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

Polarization 9

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

measurement center), i.e., 9 = 0 is normal to probe axis

Connector Angle

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

coordinate system

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 for XY sensors and 9 = 90 for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart).
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency.
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide setup.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: ER3-2306 Apr08

Page 2 of 9

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Page: 51 of 72

Report Ver:1.0

FCC ID: QMNRM-339

ER3DV6 SN:2306

April 17, 2008

Probe ER3DV6

SN:2306

Manufactured:

December 17, 2002

Last calibrated: Recalibrated:

April 20, 2007 April 17, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ER3-2306_Apr06

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Page: 52 of 72

Report Ver:1.0

FCC ID: QMNRM-339



April 17, 2008

DASY - Parameters of Probe: ER3DV6 SN:2306

Sensitivity in Free Space [µV/(V/m)2]

Diode Compression^A

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

Frequency Correction

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 -224 °

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

A numerical linearization parameter: uncertainty not required

Certificate No: ER3-2306_Apr08

Page 4 of 9

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Page: 53 of 72

Report Ver:1.0

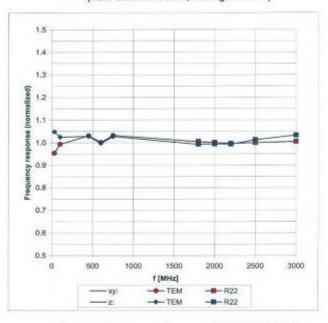
FCC ID: QMNRM-339



April 17, 2008

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)



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

Certificate No: ER3-2306 Apr08

Page 5 of 9

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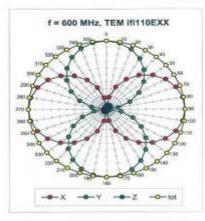
Page: 54 of 72

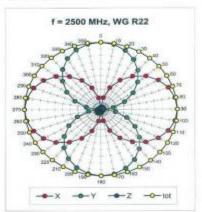
Report Ver:1.0

ER3DV6 SN:2306

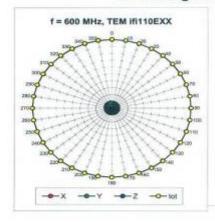
April 17, 2008

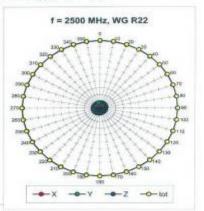
Receiving Pattern (6), 9 = 0°





Receiving Pattern (\$\phi\$), 9 = 90°





Certificate No: ER3-2306 Apr08

Page 6 of 9

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Page: 55 of 72

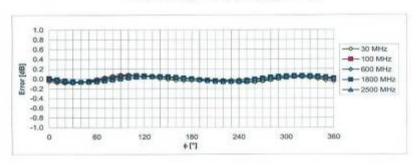
Report Ver:1.0

FCC ID: QMNRM-339



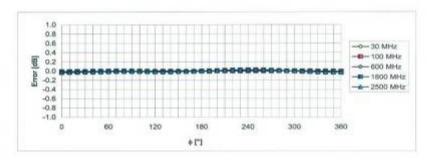
April 17, 2008

Receiving Pattern (6), 9 = 0°



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

Receiving Pattern (6), 9 = 90°



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

Certificate No: ER3-2306 Apr08

Page 7 of 9

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Page: 56 of 72

Report Ver:1.0

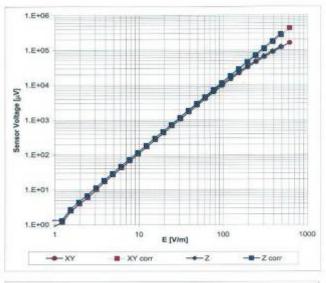
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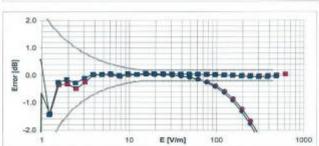
ER3DV6 SN:2306

April 17, 2008

Dynamic Range f(E-field)

(Waveguide R22, f = 1800 MHz)





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

Certificate No: ER3-2306_Apr08

Page 8 of 9

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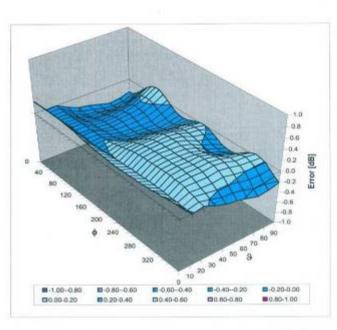
Page: 57 of 72

Report Ver:1.0 FCC ID: QMNRM-339

ER3DV6 SN:2306

April 17, 2008

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



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

Certificate No: ER3-2306_Apr08

Page 9 of 9

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FCC ID: QMNRM-339

Page: 58 of 72

Report Ver:1.0

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Calibration Laboratory of Schmid & Partner Engineering AG aughausstrasse 43, 8004 Zurloh, Switzerland





Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Certificate No: H3-6142 Apr08

Accreditation No.: SCS 108

SGS (Auden) CALIBRATION CERTIFICATE H3DV6 - SN:6142 Calibration procedure(s) QA CAL-03.v5 Calibration procedure for H-field probes optimized for close near field evaluations in air April 21, 2008 Calibration data: 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-# Cai Date (Certificate No.) Scheduled Calibration 1-Apr-08 (No. 217-00758) Power meter E4419B GB41293874 Apr-09 1-Apr-08 (No. 217-00788) 1-Apr-08 (No. 217-00788) Power sensor E4412A MY41495277 Apr-09 Power sensor E4412A MY41498087 Apr-09 Reference 3 dB Attenua SN: S5054 (3c) 8-Aug-07 (No. 217-00719) Aug-09 Reference 20 dB Attenuator SN: 35086 (20b) 31-Mar-08 (No. 217-00787) Apr-09 Reference 30 dB Attenuator SN: S5129 (30b) 8-Aug-07 (No. 217-00720) Aug-88 Reference Probe H3DV6 SN-6182 2-Oct-07 (No. H3-6182 Oct07) Ont-DR 3-Sep-07 (No. DAE4-660_Sep07) SN: 660 Sep-08 Secondary Standards ID # Check Date (In house) Scheduled Check RF generator HP 8648C Network Analyzer HP 8753E U\$3642U01700 US37390585 18-Oct-01 (in house check Oct-07). In house check: Oct-08 Function Technical Manage Katia Pokovic Calibrated by: **Quality Manag** Approved by: Issued: April 21, 2008 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: H3-6142 Apr08

Page 1 of 8

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Report Ver:1.0 FCC ID: QMNRM-339

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





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

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signal Multitateral Agreement for the recognition of calibration certificates

Glossary:

NORMx,y,z sensitivity in free space DCP diode compression point Polarization φ φ rotation around probe axis

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

measurement center), i.e., 9 = 0 is normal to probe axis

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

coordinate system

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

X,Y,Z_a0a1a2: Assessed for E-field polarization 9 = 90 for XY sensors and 9 = 0 for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).

X,Y,Z(f)_a0a1a2= X,Y,Z_a0a1a2* frequency_response (see Frequency Response Chart).

DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency.

Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide setup.

Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Connector Angle: The angle is assessed using the information gained by determining the X_a0a1a2 (no uncertainty required).

Certificate No: H3-6142_Apr06

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Page: 60 of 72

Report Ver:1.0 FCC ID: QMNRM-339

H3DV6 SN:6142

April 21, 2008

Probe H3DV6

SN:6142

Manufactured: Last calibrated: Recalibrated:

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

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: H3-8142_Apr08

Page 3 of 8

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Page: 61 of 72

Report Ver:1.0

FCC ID: QMNRM-339

H3DV6 SN:6142

April 21, 2008

Probe H3DV6

SN:6142

Manufactured: Last calibrated: Recalibrated:

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

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: H3-6142_Apr08

Page 3 of 8

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Page: 62 of 72

Report Ver:1.0 FCC ID: QMNRM-339

H3DV6 SN:6142

April 21, 2008

DASY - Parameters of Probe: H3DV6 SN:6142

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

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

Diode Compression¹

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

Sensor Offset (Probe Tip to Sensor Center)

X 3.0 mm
Y 3.0 mm
Z 3.0 mm
Connector Angle -248 °

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

1 numerical linearization parameter: uncertainty not required

Certificate No: H3-6142 Apr08

Page 4 of 8

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FCC ID: QMNRM-339

Page: 63 of 72

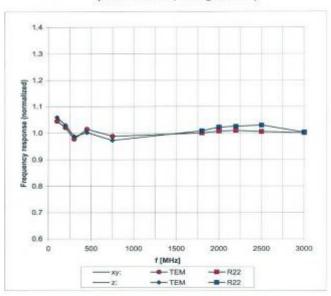
Report Ver:1.0

H3DV6 SN:6142

April 21, 2008

Frequency Response of H-Field

(TEM-Cell:ifi110, Waveguide R22)



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

Certificate No: H3-6142_Apr08

Page 5 of 8

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Page: 64 of 72

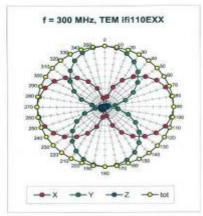
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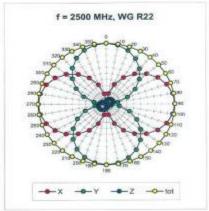
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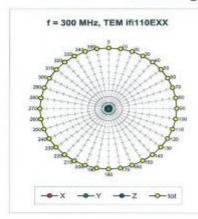
April 21, 2008

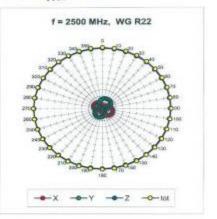
Receiving Pattern (6), 9 = 90°





Receiving Pattern (6), 9 = 0°





Certificate No: H3-6142 Apr08

Page 6 of 8

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Page: 65 of 72

Report Ver:1.0

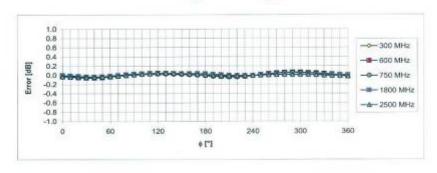
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H3DV6 SN:6142

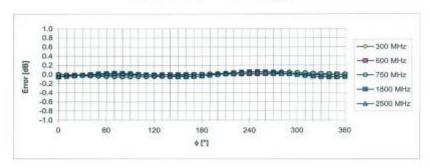
April 21, 2008

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



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

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



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

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Page 7 of 8

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Page: 66 of 72

Report Ver:1.0

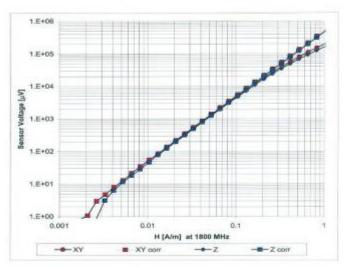
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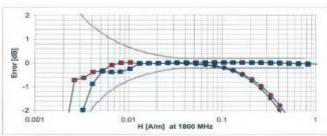
H3DV6 SN:6142

April 21, 2008

Dynamic Range f(H-field)

(Waveguide R22, f = 1800 MHz)





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

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Page 8 of 8

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Page: 67 of 72

Report Ver:1.0

16. Uncertainty Analysis

HAC-Exte	ension Se					Test	
	Uncertainty	Prob.	Div.	(c_i)	(c_i)	Std. Unc.	Std. Unc.
Error Description Measurement System	value	Dist.		E	II	Б	Н
Probe Calibration	15.1%	N	1	1	1	15.1%	±5.1%
Axial Isotropy	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
Sensor Displacement	±16.5 %	R	$\sqrt{3}$	1	0.145	±9.5%	±1.4%
Boundary Effects	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7 %
Scaling to Peak Envelope Power	±0%	R	$\sqrt{3}$	1	1	±0%	±0%
System Detection Limit	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%
Readout Electronics	±0.3%	N	1	1	1	±0.3%	±0.3 %
Response Time	±0%	R	$\sqrt{3}$	1	1	±0%	±0%
Integration Time	±0%	R	$\sqrt{3}$	1	1	±0%	±0%
RF Ambient Conditions	13.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%
RF Reflections	±6.0%	R	$\sqrt{3}$	1	1	±3.5 %	±3.5 %
Probe Positioner	±1.2%	R	$\sqrt{3}$	1	0.67	±0.7%	±0.5 %
Probe Positioning	±4.7%	R	$\sqrt{3}$	1	0.67	±2.7%	±1.8%
Extrap. and Interpolation	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6 %
Dîpole Related							
Distance Dipole - Scanning Plane	±5.2 %	R.	$\sqrt{3}$	1	0.3	±3.0%	±0.9 %
Input power	±4.7%	N	1	1	1	±4.7%	±4.7 %
Combined Std. Uncertainty			100000000000000000000000000000000000000			$\pm 13.7 \%$	±9.3 %
Expanded Std. Uncertainty or						27.4 %	$\pm 18.6\%$
Expanded Std. Uncertainty or	ı Field					$\pm 13.7 \%$	±9.3 %

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

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Page: 68 of 72

Report Ver:1.0 FCC ID: QMNRM-339

17. System Validation from Original equipment supplier

3.3.2 DASY4 H-field result

Date/Time: 09.04.2008 14:06:12

Test Laboratory: SPEAG Lab 2

H_CD835_1052_080409

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

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

Phantom section: H Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 SN6065; ; Calibrated: 31.12.2007

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

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

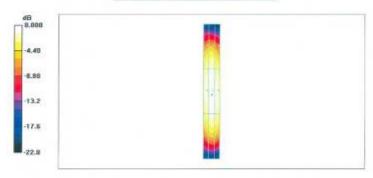
Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.457 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.486 A/m; Power Drift = -0.003 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Grid 1	Grid 2	Grid 3
0.385 M4	0.401 M4	0.373 M4
Grid 4	Grid 5	Grid 6
0.433 M4	0.457 M4	0.433 M4
Grid 7	Grid 8	Grid 9
0.381 M4	0.411 M4	0.393 M4



0 dB = 0.457A/m

Certificate No: CD835V3-1052 Apr08

Page 5 of 6

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Page: 70 of 72

Report Ver:1.0

FCC ID: QMNRM-339

3.3.3 DASY4 E-field result

Date/Time: 10.04.2008 14:46:36

Test Laboratory: SPEAG Lab 2

E_CD835_1052_080410

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Dipole Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

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

Electronics: DAE4 Sn781; Calibrated: 02.10.2007

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

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

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

Maximum value of peak Total field = 165.2 V/m

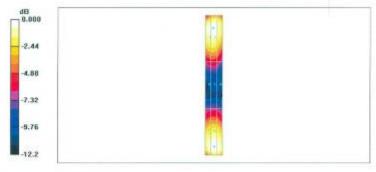
Probe Modulation Factor = 1.00

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

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

Peak E-field in V/m

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



0 dB = 165.2V/m

Certificate No: CD835V3-1052_Apr08

Page 6 of 6

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