Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 1(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

Annex B: Probe and dipole description and calibration certificates

B.1 Probe, measurement chain description, specification and calibration certificate

Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 2(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

DASY Dosimetric Assessment System by Schmid & Partner Engineering AG

DASY Schmid & Partner Engineering AG News Sales Contact		A CONTRACT OF A
Applications	ER3DV6 ISOTRO	PIC E-FIELD PROBE FOR GENERAL NEAR-FIELD
Support & Downloads	-	
Products	Download Produc	<u>:t Flyer</u> (PDF, 192kB)
DASV4 Packages		
EASV4 Probes ET3DV6 - Isotropic Dos-Probe ES3DV3 - Isotropic Dos-Probe	Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
EX3DV4 - Isotropic Dos-Probe ET1DV3 - D-Probe	Calibration	In air from 100 MHz to 3.0 GHz (absolute accuracy ±6.0%, k=2)
EUV3 - Universal Vector E-Probe H3DV6 - Isotropic H-Probe	Frequency	100 MHz to > 6 GHz; Linearity: ± 0.2 dB (100 MHz to 3 GHz)
HUV4 - Universal Vector H-Probe T1V3 - Temp-Probe DP1 - Dummy-Probe	Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)
Data Acquisition System	Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB
Software Phantoms Robots Unidation Kits & Colibustics Displace	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
Validation Kits & Calibration Dipoles Hearing Aid Compatibility (HAC) Ext	Application	General near-field measurements up to 6 GHz Field component measurements
• Tissue Simulating Liquids		Fast automatic scanning in phantoms
SPEAG Home		

http://www.dasy4.com/er3.htm

Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 3(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

DASY Dosimetric Assessment System by Schmid & Partner Engineering AG

DASY Schmid & Partner Engineering AG News Sales Contact		
Applications	H3DV6 3-DIMENSIO	NAL H-FIELD PROBE FOR SMALL BAND
Support & Downloads	-	
Products	Download Product Fl	<u>yer</u> (PDF, 192kB)
• DASV4 Packages		
• EASY4	Construction	Three concentric loop sensors with 3.8 mm loop diameters
Probes ET3DV6 - Isotropic Dos-Probe ES3DV3 - Isotropic Dos-Probe EX3DV4 - Isotropic Dos-Probe		Resistively loaded detector diodes for linear response Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
ET1DV3 - D-Probe ER3DV6 - Isotropic E-Probe	Frequency	200 MHz to 3 GHz (absolute accuracy ± 6.0%, k=2); Output linearized
EUV3 - Universal Vector E-Probe	Directivity	± 0.25 dB (spherical isotropy error)
HUV4 - Universal Vector H-Probe	Dynamic Range	10 mA/m to 2 A/m at 1 GHz
T1V3 - Temp-Probe DP1 - Dummy-Probe	E-Field Interference	< 10% at 3 GHz (for plane wave)
Data Acquisition System Software	Dimensions	Overall length: 330 mm (Tip: 40 mm) Tip diameter: 6 mm (Body: 12 mm) Distance from probe tip to dipole centers: 3 mm
Phantoms Robots Validation Kits & Calibration Dipoles Hearing Aid Compatibility (HAC) Ext Tissue Simulating Liquids	Application	General magnetic near-field measurements up to 3 GHz Field component measurements Surface current measurements Measurements in air or liquids Low interaction with the measured field
SPEAG Home		

http://www.dasy4.com/h3d.htm

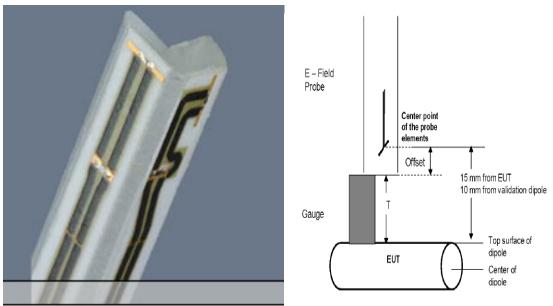
Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 4(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

All measurements were performed to the nearest element point as per the C63.19 standard. Offset distances were entered in the DASY5 software so that the measurement was to the nearest element.

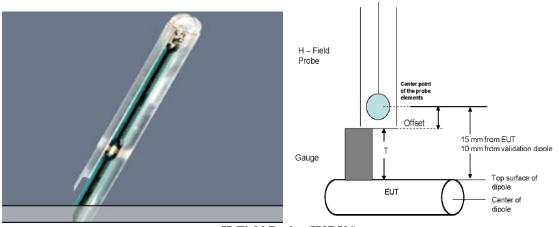
Figures 1 and 2, provided by the manufacturer, illustrate detail of the probe tip and its dimensions.

ER3DV6 E-Field probe: The distances from the probe tip to the closest points on the dipole sensors are 1.45mm for X and Y and 1.25mm for Z. From the probe tip to the center of the sensors is 2.5mm.

H3DV6 H-Field probe: The distance from the probe tip to the closest point of the X, Y and Z loop sensors is 1.1mm. From the probe tip to the center of the sensor is 3.00mm.



E-Field Probe (ER3DV6)



H-Field Probe (H3DV6)

Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 5(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

The following information is from the system manufacturer user manual describing the process chain:

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

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$
(20.1)

with	V_i	= compensated signal of channel i	(i = x, y, z)
	U_i	= input signal of channel i	(i = x, y, z)
	cf	= crest factor of exciting field	(DASY parameter)
	dcp_i	= diode compression point	(DASY parameter)

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

	$\mathrm{E-field probes}$:	$E_i = \sqrt{\frac{V_i}{Norm_i \cdot Ce}}$	onvF
	${ m H}-{ m field probes}$:	$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f}{f}$	$f + a_{i2}f^2$
with	= compensated signal of c = sensor sensitivity of cha $\mu V/(V/m)^2$ for E-field = sensitivity enhancement = sensor sensitivity factor = carrier frequency [GHz] = electric field strength of = magnetic field strength	nnel i 1 Probes t in solution rs for H-field probes f channel i in V/m	$\begin{array}{l}(i=x,y,z)\\(i=x,y,z)\end{array}$

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

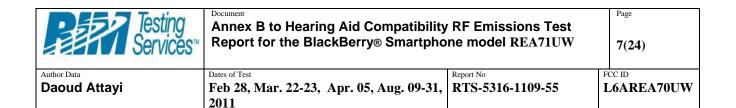
$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2} \qquad (20.2)$$

The measurement / integration time per point is > 500 ms, as per the system manufacturer:

The time response of the field probes has been assessed by exposing the probe to a well-controlled field producing signals larger than HAC E- and H-fields of class M4. The signal response time is evaluated as the time required by the system to reach 90% of the expected final value after an on/off switch of the power source with an integration time of 500 ms and a probe response time of <5 ms. In the current implementation, DASY4 waits longer than 100 ms after having reached the grid point before starting a measurement, i.e., the response time uncertainty is negligible.

If the device under test does not emit a CW signal, the integration time applied to measure the electric field at a specific point may introduce additional uncertainties due to the discretization. The tolerances for the different systems had the worst-case of 2.6%.

Services			bility RF Emissions Test phone model REA71UW	Page 6(24)
^{ata} Id Attayi	Dates of Test Feb 28, Ma 2011	r. 22-23, Apr. 05, Aug. 09	-31, RTS-5316-1109-55	FCC ID L6AREA70
Calibration Laborato Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zuri	ich, Switzerland	GNISS BCCMBA REFERENCE S	Schweizerischer Kalibrierdienst Servizie suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service No.: SCS 108	
The Swiss Accreditation Servic Multilateral Agreement for the	ce is one of the signatorie			
Client RTS (RIM Tes	ting Services)	Certificate No:	ER-2286_Jan11	
CALIBRATION	CERTIFICAT			
Object	ER3DV6 - SN:22	286		
Calibration procedure(s)	QA CAL-02.v6, (Calibration proce evaluations in ai	edure for E-field probes optimized f	for close near field	
Calibration date:	1. MON	ter en		
	January 14, 201	NATION SECTION AND AND AND AND AND AND AND AND AND AN	and the presence of the second s	
The measurements and the uno	ments the traceability to nat vertainties with confidence p ucted in the closed laborato	fonal standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature $(22 \pm 3)^{\circ}$ C	are part of the certificate.	
The measurements and the unc	ments the traceability to nat vertainties with confidence p ucted in the closed laborato	ional standards, which realize the physical units robability are given on the following pages and	are part of the certificate.	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards	ments the traceability to nat vertainties with confidence p ucted in the closed laborato BTE critical for calibration)	ional standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature (22 ± 3)°C Cal Date (Certificate No.)	are part of the certificate. and humidity < 70%.	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E4419B	nents the traceability to nat pertainties with confidence p ucted in the closed laborato STE critical for calibration) ID GB41293874	ional standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature (22 ± 3)°C : Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277	ional standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature (22 ± 3)°C ; Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A	nents the traceability to nat sertainties with confidence p ucted in the closed laborato STE critical for calibration) ID GB41293874	ional standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature (22 ± 3)°C : Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087	Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 030-Mar-10 (No. 217-01136) 030-Mar-10 (No. 217-01136) 030-Mar-10 (No. 217-01136) 030-Mar-10 (No. 217-01161)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Apr-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power sensor E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 3 0 dB Attenuator	ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5129 (30b)	Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01159) 30-Mar-10 (No. 217-01161)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11	
The measurements and the uno All calibrations have been condu- Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Roference 3 d B Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator	ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5129 (30b) SN: 2328	Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. 2R3-2328_Oct10)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Oct-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power sensor E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 3 0 dB Attenuator	ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5129 (30b)	Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01159) 30-Mar-10 (No. 217-01161)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11	
The measurements and the uno All calibrations have been condu- Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Roference 3 d B Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator	ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5129 (30b) SN: 2328	ional standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature (22 ± 3)°C / Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. ER3-2328_Oct10) 31-Aug-10 (No. DAE4-789_Aug10)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Oct-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference 9 robe ER3DV6 DAE4	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5056 (2b) SN: S5129 (30b) SN: S5129 (30b) SN: 789	Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. 2R3-2328_Oct10)	are part of the certificate. and humidity < 70%.	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5054 (3c) SN: S5056 (20b) SN: S5129 (30b) SN: S5129 (30b) SN: 2328 SN: 789	ional standards, which realize the physical units robability are given on the following pages and ry facility: environment temperature (22 ± 3)°C + Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 30-Mar-10 (No. 217-0116) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. ER3-2328_Oct10) 31-Aug-10 (No. DAE4-789_Aug10) Check Date (in house)	are part of the certificate. and humidity < 70%.	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY414980277 SN: S5054 (3c) SN: S5086 (20b) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 30-Mar-10 (No. 217-01159) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. DAE4-789_Aug10) 	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11 In house check: Oct-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 30 dB Attenuator Reference 9 robe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by:	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5054 (3c) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700 US3790585 Name Marcel Fohr	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 4-Oct-10 (No. 217-01161) Check Date (in house) 4-Aug-99 (in house check Oct-10) Function Laboratory Technician	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5054 (3c) SN: S5058 (2ob) SN: S5129 (30b) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700 US37390585 Name	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 30-Mar-10 (No. 217-01136) 30-Mar-10 (No. 217-0116) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. ER3-2328_Oct10) 31-Aug-10 (No. DAE4-789_Aug10) Check Date (in house) 4-Aug-99 (in house check Oct-09) 18-Oct-01 (in house check Oct-0) Function	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11 In house check: Oct-11 Signature	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Roference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by: Approved by:	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5086 (20b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700 US37390585 Name Marcel Pehr Katta Pokovic	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01159) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. ER3-2328_Oct10) 31-Aug-10 (No. DAE4-789_Aug10) Check Date (in house) 4-Aug-99 (in house check Oct-09) 18-Oct-01 (in house check Oct-09) 18-Oct-01 (in house check Oct-10) Function Laboratory Technician Technical Manager	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11 In house check: Oct-11	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Roference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by: Approved by:	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5086 (20b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700 US37390585 Name Marcel Pehr Katta Pokovic	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 4-Oct-10 (No. 217-01161) Check Date (in house) 4-Aug-99 (in house check Oct-10) Function Laboratory Technician	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11 In house check: Oct-11 Signature	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Roference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by: Approved by:	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5086 (20b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700 US37390585 Name Marcel Pehr Katta Pokovic	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01159) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. ER3-2328_Oct10) 31-Aug-10 (No. DAE4-789_Aug10) Check Date (in house) 4-Aug-99 (in house check Oct-09) 18-Oct-01 (in house check Oct-09) 18-Oct-01 (in house check Oct-10) Function Laboratory Technician Technical Manager	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11 In house check: Oct-11 Signature	
The measurements and the uno All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A Roference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ER3DV6 DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E Calibrated by: Approved by:	nents the traceability to nat pertainties with confidence p ucted in the closed laborato BTE critical for calibration) ID GB41293874 MY41495277 MY41498087 SN: S5086 (20b) SN: S5086 (20b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: S5129 (30b) SN: 2328 SN: 789 ID US3642U01700 US37390585 Name Marcel Pehr Katta Pokovic	Cal Date (Certificate No.) Cal Date (Certificate No.) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01136) 01-Apr-10 (No. 217-01159) 30-Mar-10 (No. 217-01159) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01161) 30-Mar-10 (No. 217-01160) 4-Oct-10 (No. ER3-2328_Oct10) 31-Aug-10 (No. DAE4-789_Aug10) Check Date (in house) 4-Aug-99 (in house check Oct-09) 18-Oct-01 (in house check Oct-09) 18-Oct-01 (in house check Oct-10) Function Laboratory Technician Technical Manager	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Mar-11 Oct-11 Aug-11 Scheduled Check In house check: Oct-11 In house check: Oct-11 Signature	



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



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

Accreditation No.: SCS 108

s

С

s

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

Glossary:

NORMx,y,z sensitivity in free space	
DCP diode compression point	
CF crest factor (1/duty_cycle) of the RF signal	
A, B, C modulation dependent linearization parameters	
Polarization ϕ ϕ rotation around probe axis	
Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measuremen	t center),
i.e., 9 = 0 is normal to probe axis	P -
Connector Angle information used in DASY system to align probe sensor X to the robot coordinate s	system

Calibration is Performed According to the Following Standards:

 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 θ = 0 for XY sensors and θ = 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 with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- Ax,y,z; Bx,y,z; Cx,y,z, VRx,y,z: A, B, C are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the
 maximum calibration range expressed in RMS voltage across the diode.
- 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: ER-2286_Jan11

Page 2 of 10

Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 8(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

ER3DV6 - SN:2286

January 14, 2011

Probe ER3DV6

SN:2286

Manufactured: September 18, 2002 Calibrated: January 14, 2011

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: ER-2286_Jan11

Page 3 of 10

Testing Services™	Annex B to Hearing Aid Compatibility Report for the BlackBerry® Smartpho	Page 9(24)	
Author Data	Dates of Test Report No		FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, RTS-5316-1109-55 2011		L6AREA70UW

ER3DV6- SN:2286

January 14, 2011

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2286

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)$	2.23	1.48	1.51	± 10.1 %
DCP (mV) ^B	97.6	98.4	97.6	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000	CW	0.00	Х	0.00	0.00	1.00	179.3	±3.0 %
			Y	0.00	0.00	1.00	145.0	
			Z	0.00	0.00	1.00	180.1	

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%.

⁸ Numerical linearization parameter: uncertainty not required. ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: ER-2286_Jan11

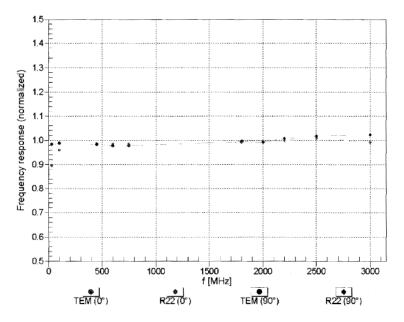
Page 4 of 10

Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 10(24)
Author Data	Dates of Test Report No		FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, RTS-5316-1109-55 2011		L6AREA70UW

ER3DV6-- SN:2286

January 14, 2011

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

Certificate No: ER-2286_Jan11

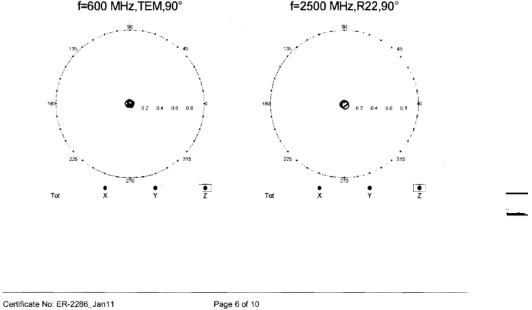
Page 5 of 10

Testing Services™	Document Annex B to Hearing Aid Compatibility Report for the BlackBerry® Smartpho	Page 11(24)	
Author Data	Dates of Test Report No		FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

ER3DV6-- SN:2286

January 14, 2011

f=600 MHz,TEM,0° f=2500 MHz,R22,0° f=2500 MHz,R22,0° f=2500 MHz,R22,0° f=2500 MHz,R22,0° f=2500 MHz,R22,90° f=600 MHz,TEM,90° f=2500 MHz,R22,90° f=2500 MHz,R22,90° f=2500 MHz,R22,90°



This report shall <u>NOT</u> be reproduced except in full without the written consent of RIM Testing Services Copyright 2005-2011, RIM Testing Services, A division of Research In Motion Limited

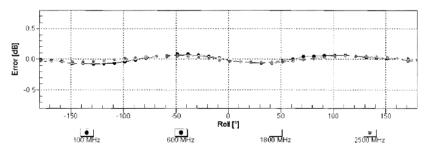
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

Testing Services™	Document Annex B to Hearing Aid Compatibility Report for the BlackBerry® Smartpho	Page 12(24)	
Author Data	Dates of Test	FCC ID	
Daoud Attayi	Dates of Test Report No Fit Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011 RTS-5316-1109-55 II		L6AREA70UW

ER3DV6- SN:2286

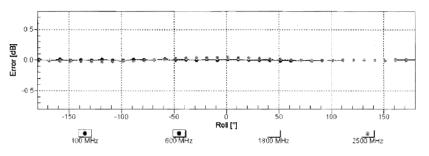
January 14, 2011

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



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

Receiving Pattern (ϕ), $\vartheta = 90^{\circ}$



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

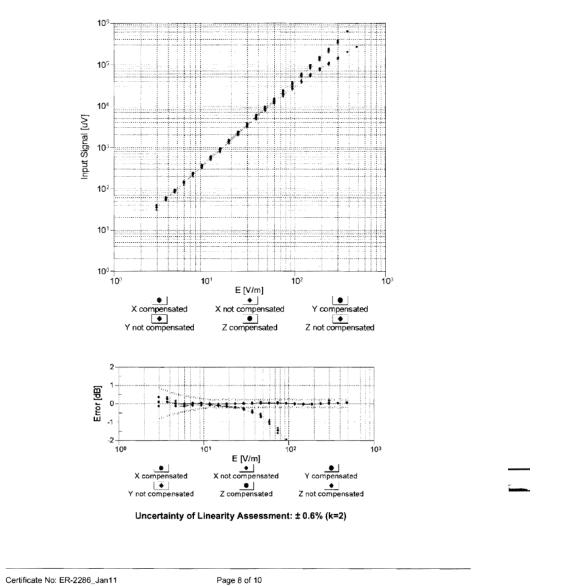
Certificate No: ER-2286_Jan11

Page 7 of 10

Testing Services™	Annex B to Hearing Aid Compatibility Report for the BlackBerry® Smartpho	Page 13(24)	
Author Data	Dates of Test Report No		FCC ID
Daoud Attayi			L6AREA70UW

ER3DV6-- SN:2286

January 14, 2011



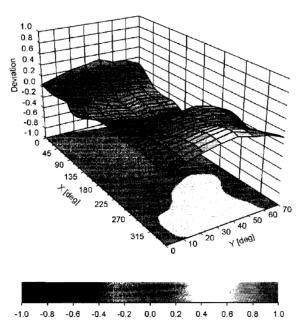
Dynamic Range f(E-field) (TEM cell , f = 900 MHz)

Testing Services™	Document Annex B to Hearing Aid Compatibility Report for the BlackBerry® Smartpho	Page 14(24)	
Author Data	Dates of Test Report No		FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, RTS-5316-1109-55 2011		L6AREA70UW

ER3DV6- SN:2286

January 14, 2011

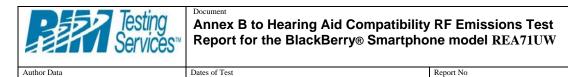
Deviation from Isotropy in Air Error (\, \,), f = 900 MHz



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

Certificate No: ER-2286_Jan11

Page 9 of 10



Page

Daoud Attayi

Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011

RTS-5316-1109-55

FCC ID L6AREA70UW

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland

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

CALIBRATION CERTIFICATE

Client ROM ى\$الا 8R

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

Accreditation No.: SCS 108

ŝ

С

s

Certificate No: H3-6105_Nov10

Object	H3DV6 - SN:610	05	
Calibration procedure(s)	QA CAL-03.v5, Calibration proc evaluations in a	edure for H-field probes optimize	d for close near field
Calibration date:	November 18, 2	010	
	-	tional standards, which realize the physical u probability are given on the following pages a	
All calibrations have been co	nducted in the closed laborate	ory facility: environment temperature (22 ± 3)	1C and humidity < 70%
Calibration Equipment used (M&TE critical for calibration)		
 Primary Standards		Cal Date (Certificate No.)	
Power meter E44198	GB41293874	10-Apr-10 (No. 217-01136)	Scheduled Calibration Apr-11
	GGATZSdDTA	10-rep = 10 (110, 21) = 0 (130)	_ Adv. ()

Power sensor E4412A MY41495277 10-Apr-10 (No. 217-01136) Apr-11 Power sensor E4412A MY41498087 10-Apr-10 (No. 217-01136) Apr-11 Reference 3 dB Attenuator SN: S5054 (3c) 30-Mar-10 (No. 217-01159) Mar-11 Reference 20 d6 Allenuator SN: \$5086 (20b) 3D-Mar-10 (No. 217-01161) Mar-11 Reference 30 dB Altenuator 30-Mar-10 (No. 217-01160) SN: \$5129 (30b) Mar-11 Reference Probe H3OV6 SN: 6182 4-Oct-10 (No. H3-6182_Oct10) Oct-11 DAE4 SN: 789 31-Aug-10 (No. DAE4-789_Aug10) Aug-11 Secondary Standarda ID Check Date (in house) Scheduled Check RF generator HP 8648C US3642U01700 4-Aug-99 (in house check Oct-09) In house check: Oct-11 Network Analyzer HP 8753E US37390585 18-Oct-01 (in house check Oct-10) In house check, Oct-11

	Nama	Function	Signature
Calibrated by:	Jecin Kestrati	Laboretory Technician	fela
Approved by:	Katja Pokovic	Technical Manager	Selle
This solibration partificat	o shall ask be seen down down as in failured		Issued: November 19, 2010
This calibration beforeat	a sitali not de reproduced except in fuit	without written approval of the laborator	<u>y. </u>

Certificate No: H3-6105_Nov10



Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW

16(24)

Page

Author Data
Daoud Attayi

Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011

Report No RTS-5316-1109-55 FCC ID L6AREA70UW

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



- S Schweizerischer Kalibrierdienst
- C Service sulsse d'étalonnage
- S 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 signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

NORMx.y,z	sensitivity in free space
DCP	diode compression point
ÇF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization o	o rotation around probe axis
Polarization 3	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
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).
- 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 with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- Ax,y,z: Bx,y,z; Cx,y,z, VRx,y,z: A, B, C are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the
 maximum calibration range expressed in RMS voltage across the diode.
- 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).

Testing Services™	Document Annex B to Hearing Aid Compatibility Report for the BlackBerry® Smartpho	Page 17(24)	
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi			L6AREA70UW

H3DV6 - SN:6105

November 16, 2010

Probe H3DV6

SN:6105

Manufactured: January 5, 2002 Calibrated: November 18, 2010

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 18(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H30V6-- \$N:6105

November 18, 2010

DASY/EASY - Parameters of Probe: H3DV6 - SN:6105

Basic Calibration Parameters

		Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (A/m / √(mV))	a0	2.94E-003	2.71E-003	3.01E-003	± 5.1 %
Norm (A/m / √(mV))	a1	2.83E-005	2.25E-005	-8.45E-005	± 5.1 %
Norm (A/m / $\sqrt{(mV)}$)	a2	-1.08E-005	2.19E-006	5.51E-005	± 5.1 %
DCP (mV) ^e		90.4	91.6	92.6	

Modulation Calibration Parameters

UID	Communication System Name	PAR	ŗ	A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000		0.00	x	0.00	000	1.00	211.2	±2.96 %
			Y	0.00	0.00	1.00	233.0	
			ΙZ	0.00	0.00	1.00	239.4	

^E Numerical linearization parameter, uncertainty not required ^E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

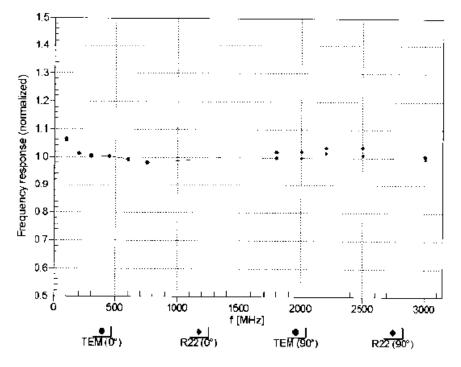
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 19(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H3DV6- SN:6105

November 18, 2010

Frequency Response of H-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

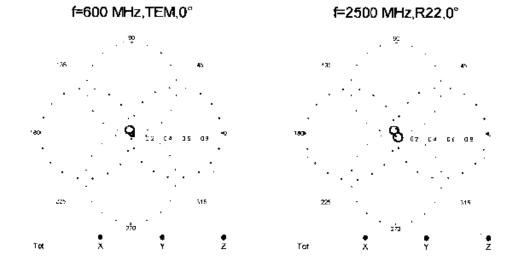
Certificate No: H3-6105 Nov10

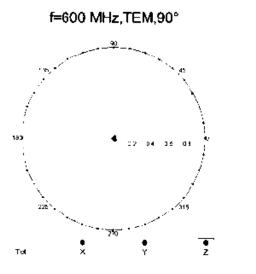
Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 20(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H3DV6-- SN:6105

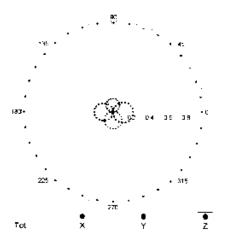
November 18, 2010

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





f=2500 MHz,R22,90°

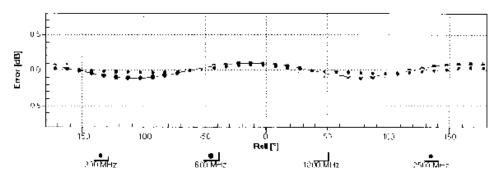


Testing Services™	Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 21(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H3DV6- SN:6105

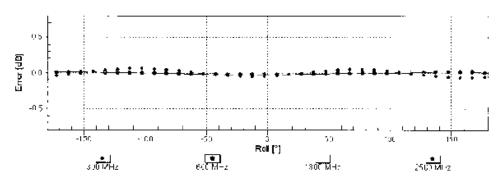
November 18, 2010

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



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

Receiving Pattern (ϕ), ϑ = 90°





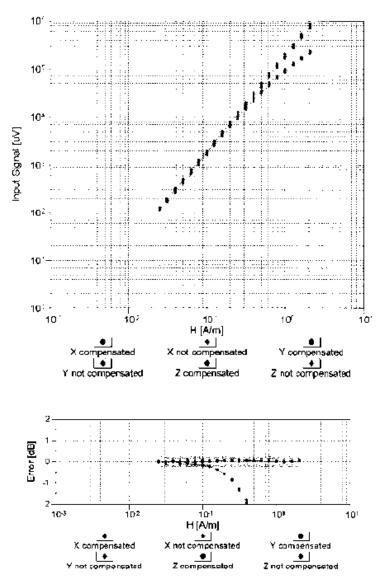
- -

Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 22(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H3DV6- SN:6105

November 18, 2010

Dynamic Range f(H-field) (TEM cell, f = 900 MHz)



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

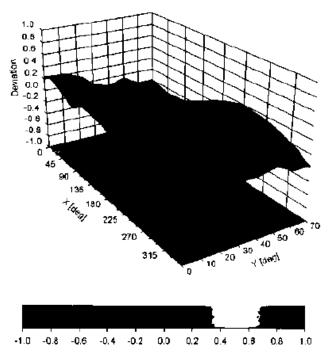
Page 8 of 10

Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 23(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H3DV6- \$N:6105

November 18, 2010

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



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

Certificate No: H3-6105_Nov10

Page 9 of 10

Testing Services™	Document Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 24(24)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	RTS-5316-1109-55	L6AREA70UW

H3DV6-- SN:6105

November 18, 2010

DASY/EASY - Parameters of Probe: H3DV6 - SN:6105

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (*)	-62.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	
Probe Body Diameter	
Tip Length	20 mm
Tip Diameter	- <u>6 mm</u>
Probe Tip to Sensor X Calibration Point	3 mm
Probe Tip to Sensor Y Calibration Point	
Probe Tip to Sensor Z Calibration Point	3 mm

_