RTS RIM Testing Services	Appendix for the BlackBerr SAR Report	y® Smartphone Model	RBY41GW	Page 1(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40	GW

APPENDIX D1: PROBE CALIBRATION DATA

RIM Testing Services Appendix for the BlackBerry® Smartphone Model RBY41GW SAR Report Dates of Test June 02-24, 2008 Document Appendix for the BlackBerry® Smartphone Model RBY41GW 2(19) Page 2(19) Page 2(19) Page 2(19)

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





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Multilateral Agreement for the recognition of calibration certificates

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nt RIM

Certificate No: ET3-1644_Nov07

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE Object ET3DV6 - SN:1644 QA CAL-01.v6 Calibration procedure(s) Calibration procedure for dosimetric E-field probes Calibration date: November 12, 2007 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) ID# Primary Standards Cal Date (Calibrated by, Certificate No.) Scheduled Calibration Power meter E4419B GB41293874 29-Mar-07 (METAS, No. 217-00670) Mar-08 Power sensor E4412A MY41495277 29-Mar-07 (METAS, No. 217-00670) Mar-08 Power sensor E4412A MY41498087 29-Mar-07 (METAS, No. 217-00670) Mar-08 Reference 3 dB Attenuator SN: S5054 (3c) 8-Aug-07 (METAS, No. 217-00719) Aug-08 Reference 20 dB Attenuator SN: S5086 (20b) 29-Mar-07 (METAS, No. 217-00671) Mar-08 Reference 30 dB Attenuator SN: S5129 (30b) 8-Aug-07 (METAS, No. 217-00720) Aug-08 Reference Probe ES3DV2 SN: 3013 4-Jan-07 (SPEAG, No. ES3-3013_Jan07) Jan-08 DAE4 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Apr-08 Secondary Standards Check Date (in house) Scheduled Check US3642U01700 RF generator HP 8648C 4-Aug-99 (SPEAG, in house check Oct-07) In house check: Oct-09 Network Analyzer HP 8753E US37390585 18-Oct-01 (SPEAG, in house check Oct-07) In house check: Oct-08 Name Function Calibrated by: Katja Pokovic Technical Manager Approved by: Niels Kuster Quality Manager Issued: November 12, 2007 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: ET3-1644_Nov07

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RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	^{Page} 3(19)
Author Data	Dates of Test Test Report No FCC ID:			
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40	GW

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

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:

TSL NORMx,y,z ConF

tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z

DCP Polarization o diode compression point 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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- 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 nor media.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Certificate No: ET3-1644 Nov07	Page 2 of 9

RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	Page 4(19)
Author Data	Dates of Test Test Report No FCC ID:			
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40	GW

November 12, 2007

Probe ET3DV6

SN:1644

Manufactured: November 7, 2001 Last calibrated: November 16, 2006 Recalibrated: November 12, 2007

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	Page 5(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40)GW

November 12, 2007

DASY - Parameters of Probe: ET3DV6 SN:1644

Sensitivity in Free Space ^A			Diode Compression ^B		
NormX	1.82 ± 10.1%	$\mu V/(V/m)^2$	DCP X	93 mV	
NormY	1.92 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	92 mV	
NormZ	1.88 ± 10.1%	$\mu V/(V/m)^2$	DCP Z	95 mV	

Sens	itivity in Tis	sue Sim	ulating Liquid (Conversion	n Factor	s)
Please	see Page 8.				
Boun	dary Effect				
TSL	90	00 MHz	Typical SAR gradient: 5 % per	mm	
	Sensor Center	to Phantor	m Surface Distance	3.7 mm	4.7 mm
	SAR _{be} [%]	Without	Correction Algorithm	7.1	3.7
	SAR _{be} [%]	With Co	rrection Algorithm	0.1	0.4
TSL	181	10 MHz	Typical SAR gradient: 10 % per	mm	
	Sensor Center	to Phantor	m Surface Distance	3.7 mm	4.7 mm
	SAR _{be} [%]	Without	Correction Algorithm	13.3	9.0
	SAR _{be} [%]	With Co	rrection Algorithm	0.5	1.6
Sens	or Offset				

Probe Tip to Sensor Center

2.7 mm

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%.

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^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

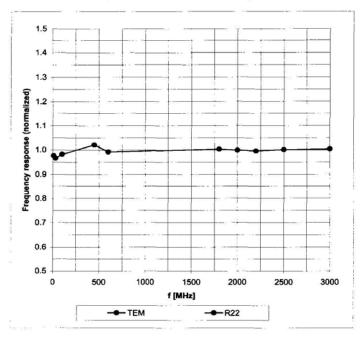
^B Numerical linearization parameter: uncertainty not required.

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Author Data	Dates of Test Test Report No FCC ID:			
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40	GW

November 12, 2007

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



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

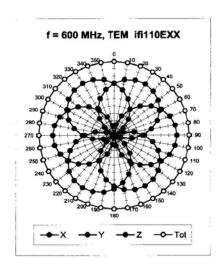
Certificate No: ET3-1644_Nov07

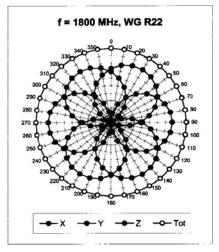
Page 5 of 9

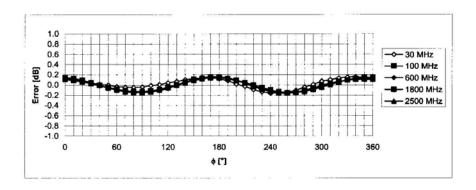
RTS RIM Testing Services	Appendix for the BlackBerr SAR Report	y® Smartphone Model	RBY41GW	Page 7(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40)GW

November 12, 2007

Receiving Pattern (ϕ), ϑ = 0°







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

Certificate No: ET3-1644_Nov07

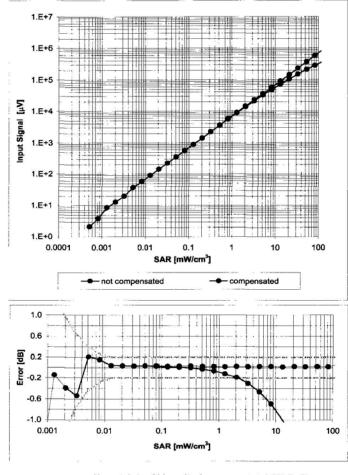
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RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	Page 8(19)
Author Data	Dates of Test Test Report No FCC ID:			
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40	GW

November 12, 2007

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)



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

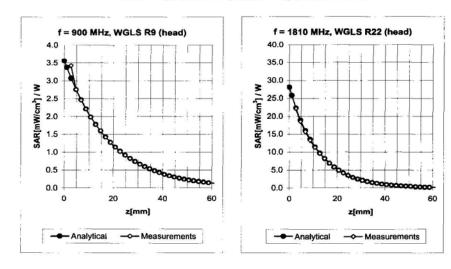
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RTS RIM Testing Services	Appendix for the BlackBerr SAR Report	y® Smartphone Model	RBY41GW	Page 9(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40)GW

November 12, 2007

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.21	4.04	6.41 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.71	2.01	5.24 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.32	2.97	5.97 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.73	2.27	4.75 ± 11.0% (k=2)

Certificate No: ET3-1644_Nov07

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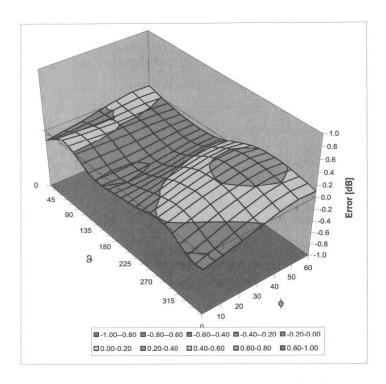
^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

RTS RIM Testing Services	Appendix for the BlackBerr SAR Report	y® Smartphone Model	RBY41GW	Page 10(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40GW	

November 12, 2007

Deviation from Isotropy in HSL

Error (ϕ, ϑ) , f = 900 MHz



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

Certificate No: ET3-1644_Nov07

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RIM Testing Services Author Data Shahriar Ninad Appendix for the BlackBerry® Smartphone Model RBY41GW SAR Report Page 11(19) Page 11(19) Page 11(19) Page 11(19) Page 11(19) Page 11(19) Page 11(19)

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Client

Cardiffeets No. EY3-3592 Nov0

Accreditation No.: SCS 108

lient RIM		Certificate No: E	Certificate No: EX3-3592_Nov07			
CALIBRATION (CERTIFICAT	E				
Object	EX3DV4 - SN:3	592				
Calibration procedure(s)		QA CAL-01.v6 and QA CAL-14.v3 Calibration procedure for dosimetric E-field probes				
Calibration date:	November 6, 20	107				
Condition of the calibrated item	In Tolerance					
	cted in the closed laborate	probability are given on the following pages and are ory facility: environment temperature $(22\pm3)^{\circ}$ C and				
Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration			
ower meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08			
ower sensor E4412A	MY41495277	29-Mar-07 (METAS, No. 217-00670)	Mar-08			
ower sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670)	Mar-08			
teference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08			
eference 20 dB Attenuator eference 30 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08			
Reference Probe ES3DV2	SN: S5129 (30b) SN: 3013	8-Aug-07 (METAS, No. 217-00720) 4-Jan-07 (SPEAG, No. ES3-3013 Jan07)	Aug-08 Jan-08			
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08			
Secondary Standards	ID#	Check Date (in house)	Scheduled Check			
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09			
letwork Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08			
000 miles (100 miles 100 miles	Name	18-Oct-01 (SPEAG, in house check Oct-07) Function	Signature			
Calibrated by:	Name	Function				
Network Analyzer HP 8753E Calibrated by: Approved by:	Name Katja Pokovic	Function Technical Manager				

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RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	Page 12(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008 RTS-1114-0806-05 L6A RBY40)GW

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Engineering AG
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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:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConF sensitivity in TSL / NORMx,y,z
DCP diode compression point
Polarization 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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This
 linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of
 the frequency response is included in the stated uncertainty of ConvF.
- 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 nor media.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Certificate No: EX3-3592_Nov07 Page 2 of 9

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Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008 RTS-1114-0806-05 L6A RBY40GW			GW

November 6, 2007

Probe EX3DV4

SN:3592

Manufactured: September 18, 2006
Last calibrated: December 14, 2006
Recalibrated: November 6, 2007

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3592_Nov07

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November 6, 2007

DASY - Parameters of Probe: EX3DV4 SN:3592

Sensitivity in Free Space^A Diode Compression^B

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL 2450 MHz Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance			3.0 mm
SAR _{be} [%]	Without Correction Algorithm	5.0	2.8
SAR _{be} [%]	With Correction Algorithm	0.3	1.5

TSL 5200 MHz Typical SAR gradient: 25 % per mm

Sensor Center	2.0 mm	3.0 mm	
SAR _{be} [%]	Without Correction Algorithm	11.7	5.6
SAR _{be} [%]	With Correction Algorithm	0.0	0.0

Sensor Offset

Probe Tip to Sensor Center

1.0 mm

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%.

Certificate No: EX3-3592_Nov07

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^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

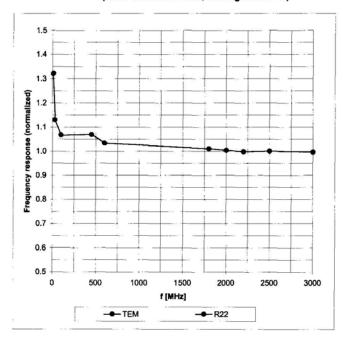
⁸ Numerical linearization parameter: uncertainty not required.

RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	Page 15(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008 RTS-1114-0806-05 L6A RBY40G			GW

November 6, 2007

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



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

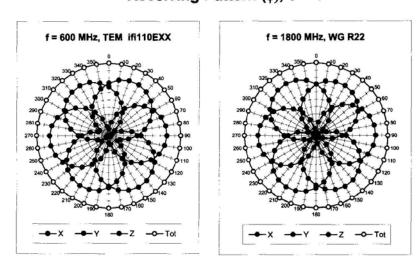
Certificate No: EX3-3592_Nov07

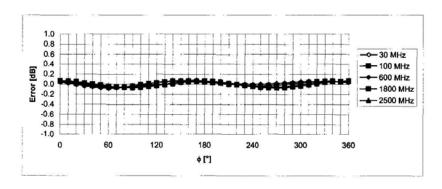
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RTS RIM Testing Services	Appendix for the Black SAR Report	Berry® Smartphone Mode	I RBY41GW	Page 16(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40GW	

November 6, 2007

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





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

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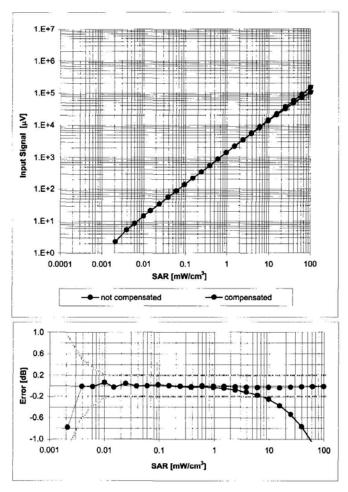
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RTS RIM Testing Services	Appendix for the BlackBerry SAR Report	y® Smartphone Model	RBY41GW	Page 17(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008 RTS-1114-0806-05 L6A RBY400			GW

November 6, 2007

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)



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

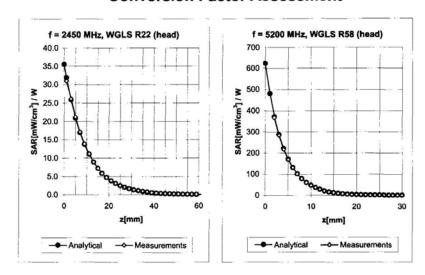
Certificate No: EX3-3592_Nov07

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RTS RIM Testing Services	Appendix for the BlackBerr SAR Report	y® Smartphone Model	RBY41GW	Page 18(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40GW	

November 6, 2007

Conversion Factor Assessment



f [MHz]	Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty	
2450	± 50 / ± 100	Head	$39.2 \pm 5\%$	$1.80 \pm 5\%$	0.57	0.78	6.65	± 11.8% (k=2)
5200	± 50 / ± 100	Head	36.0 ± 5%	$4.66 \pm 5\%$	0.37	1.70	4.77	± 13.1% (k=2)
5500	± 50 / ± 100	Head	$35.6 \pm 5\%$	$4.96 \pm 5\%$	0.38	1.70	4.54	± 13.1% (k=2)
5800	± 50 / ± 100	Head	$35.3 \pm 5\%$	$5.27 \pm 5\%$	0.47	1.70	4.25	± 13.1% (k=2)
2450	± 50 / ± 100	Body	$52.7 \pm 5\%$	1.95 ± 5%	0.58	0.78	6.53	± 11.8% (k=2)
5200	± 50 / ± 100	Body	$49.0 \pm 5\%$	$5.30 \pm 5\%$	0.38	1.60	4.26	± 13.1% (k=2)
5500	± 50 / ± 100	Body	$48.6 \pm 5\%$	$5.65 \pm 5\%$	0.46	1.60	3.98	± 13.1% (k=2)
5800	± 50 / ± 100	Body	$48.2 \pm 5\%$	$6.00 \pm 5\%$	0.28	1.60	4.04	± 13.1% (k=2)

Certificate No: EX3-3592_Nov07

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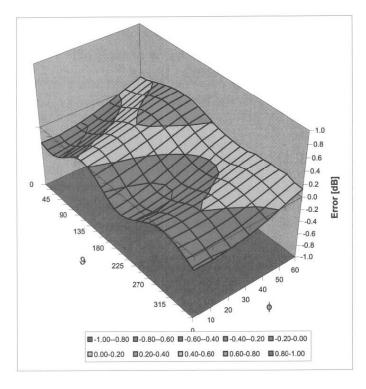
 $^{^{\}rm c}$ The validity of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

RTS RIM Testing Services	Appendix for the BlackBerr SAR Report	y® Smartphone Model	RBY41GW	Page 19(19)
Author Data	Dates of Test	Test Report No	FCC ID:	
Shahriar Ninad	June 02-24, 2008	RTS-1114-0806-05	L6A RBY40GW	

November 6, 2007

Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



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

Certificate No: EX3-3592_Nov07

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