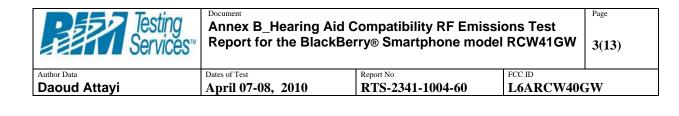
Testing Services™	Annex B_Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		Page 1(13)	
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW400	GW

Annex B: Probe and dipole descriptions and calibration certificates

B.2 Dipole calibration certificate

			npatibility RF Emise © Smartphone mod	
r Data Dud Attayi	Dates of Test April 07		port No TS-2341-1004-60	FCC ID L6ARCW40GW
Calibration Laborator Schmid & Partner Engineering AG eughausstrasse 43, 8004 Zurio	-		S Schweizerischer Kalib C Service suisse d'étalo S Servizio svizzero di ta S Swiss Calibration Servi	nnage ratura
accredited by the Swiss Accred the Swiss Accreditation Servic fultilateral Agreement for the r	e is one of the signatori recognition of calibration	es to the EA n certificates	reditation No.: SCS 108	
CALIBRATION (CHARGE ALL DESCRIPTION ALL DESCRIPTION		tificate No: CD835V3-1011_I	Nov09
Object	CD835V3 - SN:	1011		
Calibration procedure(s)	QA CAL-20.v4 Calibration proc	edure for dipoles in air	and a start of the second s	
Calibration date:	November 17, 2	009	and and the second second	998 1
This calibration certificate docun All calibrations have been condu Calibration Equipment used (M& Primary Standards	nents the traceability to na acted in the closed laborat TE critical for calibration)	tional standards, which realize the p ory facility: environment temperatur Gal Date (Certificate No.)	ohysical units of measurements (SI). a (22 ± 3)°C and humidity < 70%. Scheduled Calibra Oct-10	tion
This calibration certificate docun All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter EPM-442A	nents the traceability to na ucted in the closed laborat TE critical for calibration)	tional standards, which realize the p ory facility: environment temperatur	a (22 ± 3)°C and humidity < 70%. Scheduled Calibra	tion
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



Schweizerischer Kalibrierdienst s Service suisse d'étalonnage С Servizio svizzero di taratura

s 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

References

[1]ANSI-C63.19-2006 American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

ANSI-C63.19-2007 [2]

American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

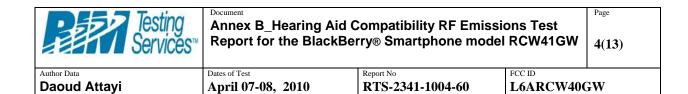
Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes. In coincidence with the standards [1, 2], the measurement planes (probe sensor center) are selected to be at a distance of 10 mm above the top edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- Feed Point Impedance and Return Loss: These parameters are measured using a HP 8753E Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- E- field distribution: E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the antenna feed point. In accordance with [1, 2], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 10 mm (in z) above the top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, 10mm above the dipole surface.
- H-field distribution: H-field is measured with an isotropic H-field probe with 100mW forward power to the antenna feed point, in the x-y-plane. The scan area and sensor distance is equivalent to the E-field scan. The maximum of the field is available at the center (subgrid 5) above the feed point. The H-field value stated as calibration value represents the maximum of the interpolated H-field, 10mm above the dipole surface at the feed point.

Certificate No: CD835V3-1011_Nov09

Page 2 of 6

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1 Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V5.2 B157
DASY PP Version	SEMCAD X	V14.0 B57
Phantom	HAC Test Arch	SD HAC P01 BA, #1070
Distance Dipole Top - Probe Center	10 mm	
Scan resolution	dx, dy = 5 mm	area = 20 x 180 mm
Frequency	835 MHz ± 1 MHz	
Forward power at dipole connector	20.0 dBm = 100mW	
Input power drift	< 0.05 dB	

2 Maximum Field values

	H-field 10 mm above dipole surface	condition	interpolated maximum
	Maximum measured	100 mW forward power	0.464 A/m
ų	Incertainty for H-field measurement: 8.2% (k=2)		

E-field 10 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end-	100 mW forward power	168.6 V/m
Maximum measured above low end	100 mW forward power	157.4 V/m
Averaged maximum above arm	100 mW forward power	163.0 V/m

Uncertainty for E-field measurement: 12.8% (k=2)

3 Appendix

3.1 Antenna Parameters

Frequency	Return Loss	Impedance
800 MHz	15.7 dB	(44.8 – j14.9) Ohm
835 MHz	31.8 dB	(48.5 + j2.0) Ohm
900 MHz	17.7 dB	(54.3 – j12.9) Ohm
950 MHz	20.5 dB	(44.7 + j7.2) Ohm
960 MHz	16.3 dB	(51.0 + j15.7) Ohm

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

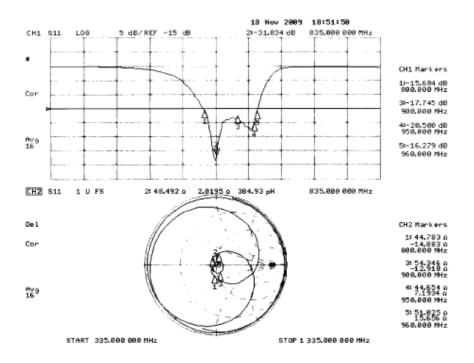
Certificate No: CD835V3-1011_Nov09

Page 3 of 6

Testing Services™	Document Annex B_Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		Page 5(13)	
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW400	GW

3.3 Measurement Sheets

3.3.1 Return Loss and Smith Chart



Certificate No: CD835V3-1011_Nov09

Page 4 of 6



3.3.2 DASY4 H-field Result

Date/Time: 17.11.2009 15:02:26

Test Laboratory: SPEAG Lab2

HAC RF_CD835_1011_091117_H_MM DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011 Communication System: CW; Frequency: 835 MHz Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY5 Configuration: • Probe: H3DV6 - SN6065; ; Calibrated: 22.12.2008 • Sensor-Surface: (Fix Surface)

Sensor-Surface: (Pix Surface)

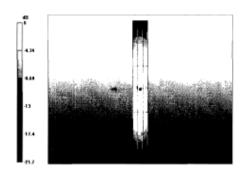
Electronics: DAE4 Sn781; Calibrated: 20.02.2009
Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070

Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Dipole H-Field measurement @ 835MHz/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 0.464 A/m Probe Modulation Factor = 1 Device Reference Point: 0, 0, -6.3 mm Reference Value = 0.494 A/m; Power Drift = -0.00467 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

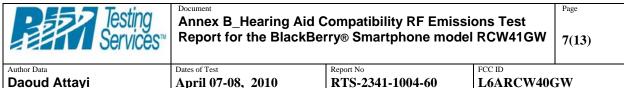
Grid 1	Grid 2	Grid 3
0.384	0.405	0.386
M4	M4	M4
Grid 4	Grid 5	Grid 6
0.441	0.464	0.439
M4	M4	M4
Grid 7	Grid 8	Grid 9
0.390	0.409	0.382
M4	M4	M4



0 dB = 0.464A/m

Certificate No: CD835V3-1011_Nov09

Page 5 of 6



aoud Attayi	April 07-08, 2010	RTS-2341-1004-0

L6ARCW40GW

3.3.3 DASY4 E-field Result

Date/Time: 17.11.2009 11:56:37

Test Laboratory: SPEAG Lab2

HAC RF_CD835_1011_091117_E_MM DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011 Communication System: CW; Frequency: 835 MHz Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY5 Configuration:

Probe: ER3DV6 - SN2336; ConvF(1, 1, 1); Calibrated: 22.12.2008

Sensor-Surface: (Fix Surface) ٠

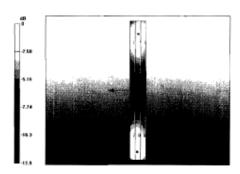
Electronics: DAE4 Sn781; Calibrated: 20.02,2009

Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070 Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Dipole E-Field measurement @ 835MHz/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 168.6 V/m Probe Modulation Factor = 1 Device Reference Point: 0, 0, -6.3 mm Reference Value = 109.2 V/m; Power Drift = -0.023 dB Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field	in V/m	
Grid I	Grid 2	Grid 3
152.1	157.4	154.5
M4	M4	M4
Grid 4	Grid 5	Grid 6
84.1	86.8	84.5
M4	M4	M4
Grid 7	Grid 8	Grid 9
165.5	168.6	158.2
M4	M4	M4



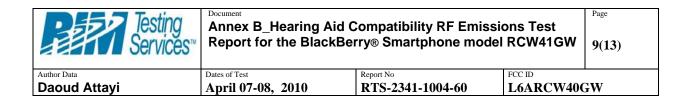
0 dB = 168.6V/m

Certificate No: CD835V3-1011_Nov09

Page 6 of 6

Data	Dates of Test		Report No	FCC ID	
oud Attayi		-08, 2010	RTS-2341-1004-60	L6ARCW400	GW
Calibration Laborato Schmid & Partner Engineering AG Jeughausstrasse 43, 8004 Zuri			S Schweizerischer Kall S Service suisse d'étal S Servizio svizzero di t S Swiss Calibration Se	onnage aratura	
Accredited by the Swiss Accre The Swiss Accreditation Servic Multilateral Agreement for the	e is one of the signatori		Accreditation No.: SCS 108		
Client RTS (RIM Test	anon Cable Ann Brich		Certificate No: CD1880V3-1008	Nov09	
CALIBRATION	CERTIFICAT	E de selection		All a	
Object	CD1880V3 - SN	: 1008	ann an an an an an an an an		
Calibration procedure(s)	QA CAL-20.v4				
	Calibration proc	edure for dipoles in air			
Calibration date:	Calibration proc				
This calibration certificate docur All calibrations have been condu	November 18, 2 nents the traceability to na acted in the closed laborat	1009 tional standards, which realize ory facility: environment temper	the physical units of measurements (SI) ature (22 ± 3)*C and humidity < 70%.		
This calibration certificate docur All calibrations have bean condu Calibration Equipment used (M& Primary Standards	November 18, 2 nents the traceability to na acted in the closed laborat kTE critical for calibration)	009 tional standards, which realize ory facility: environment temper Gal Dete (Certificate No.)	ature (22 ± 3)*C and humidity < 70%. Scheduled Calibr		
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This calibration certificate docur All calibrations have been condu Calibration Equipment used (M8 Primary Standards Power meter EPM-442A Power sensor HP 8481A Probe ER3DV6	November 16, 2 nerits the traceability to na acted in the closed laborat ATE critical for calibration) ID # GB37480704 US37292783	1009 Itional standards, which realize ory facility: environment temper Cal Date (Certificate No.) 06-Oct-09 (No. 217-01086)	ature (22 ± 3)*C and humidity < 70%. Scheduled Calibr Oct-10 Oct-10 Oct-10 Dec08) Dec-09		
This calibration certificate docur All calibrations have been condu Calibration Equipment used (M& Primary Standards Power sensor HP 8481A Probe ER3DV6 Probe H3DV6	November 16, 2 nemts the traceability to na acted in the closed laborat ATE critical for calibration) ID # GB37480704 US37292783 SN: 2336	Cal Date (Certificate No.) 06-Oct-09 (No. 217-01086) 05-Oct-09 (No. 217-01086) 05-Oct-09 (No. ER3-2336)	Scheduled Calibr Oct-10 Oct-10 Dec08) Dec-09 Dec09		
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WISS

BRD

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



Schweizerischer Kalibrierdienst s Service suisse d'étalonnage С Servizio svizzero di taratura s

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

References

ANSI-C63.19-2006 [1]

American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

[2] ANSI-C63.19-2007

American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

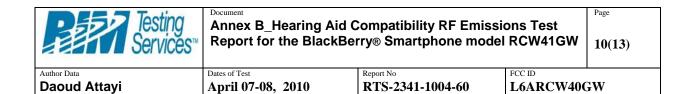
Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna (mounted on the table) towards its feed point between the two dipole arms, x-axis is normal to the other axes. In coincidence with the standards [1, 2], the measurement planes (probe sensor center) are selected to be at a distance of 10 mm above the top edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- Feed Point Impedance and Return Loss: These parameters are measured using a HP 8753E Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles
- E- field distribution: E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the antenna feed point. In accordance with [1, 2], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 10 mm (in z) above the top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, 10mm above the dipole surface.
- H-field distribution: H-field is measured with an isotropic H-field probe with 100mW forward power to the antenna feed point, in the x-y-plane. The scan area and sensor distance is equivalent to the E-field scan. The maximum of the field is available at the center (subgrid 5) above the feed point. The H-field value stated as calibration value represents the maximum of the interpolated H-field, 10mm above the dipole surface at the feed point.

Certificate No: CD1880V3-1008_Nov09

Page 2 of 6

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1. Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V5.2 B157
DASY PP Version	SEMCAD X	V14.0 B57
Phantom	HAC Test Arch	SD HAC P01 BA, #1070
Distance Dipole Top - Probe Center	10 mm	
Scan resolution	dx, dy = 5 mm	area = 20 x 90 mm
Frequency	1880 MHz ± 1 MHz	
Forward power at dipole connector	20.0 dBm = 100mW	
Input power drift	< 0.05 dB	

2. Maximum Field values

H-field 10 mm above dipole surface	condition	Interpolated maximum	
Maximum measured	100 mW forward power	0.471 A/m	
Uncertainty for H-field measurement: 8.2% (k=2)			

Uncertainty for H-field measurement: 8.2% (k

E-field 10 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW forward power	136.2 V/m
Maximum measured above low end	100 mW forward power	132.1 V/m
Averaged maximum above arm	100 mW forward power	134.2 V/m

Uncertainty for E-field measurement: 12.8% (k=2)

3. Appendix

3.1 Antenna Parameters

Frequency	Return Loss	Impedance
1710 MHz	22.8 dB	(52.2 + j7.1) Ohm
1880 MHz	20.0 dB	(50.5 + j10.1) Ohm
1900 MHz	20.9 dB	(53.2 + j8.8) Ohm
1950 MHz	29.5 dB	(52.3 + j2.6) Ohm
2000 MHz	18.7 dB	(43.2 + j8.4) Ohm

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

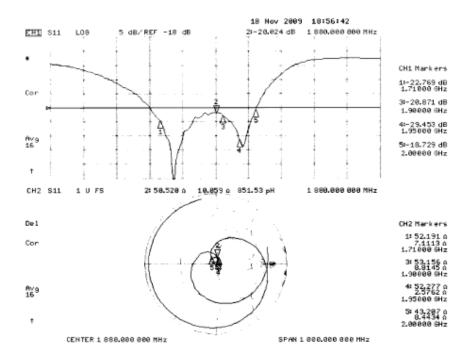
Certificate No: CD1880V3-1008_Nov09

Page 3 of 6

Testing Services™	Document Annex B_Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW			Page 11(13)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW400	GW

3.3 Measurement Sheets

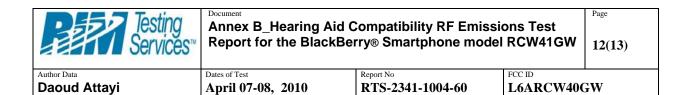
3.3.1 Return Loss and Smith Chart



Certificate No: CD1880V3-1008_Nov09

Page 4 of 6

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3.3.2 DASY4 H-Field Result

Date/Time: 18.11.2009 12:32:23

Test Laboratory: SPEAG Lab2

HAC RF CD1880 1008 091118 H CL DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008 Communication System: CW; Frequency: 1880 MHz Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m³ Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY5 Configuration: Probe: H3DV6 - SN6065; ; Calibrated: 22.12.2008 ٠

Sensor-Surface: (Fix Surface)

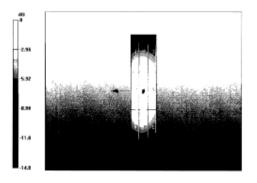
Electronics: DAE4 Sn781; Calibrated: 20.02.2009

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Dipole H-Field measurement @ 1880MHz/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.471 A/m Probe Modulation Factor = 1 Device Reference Point: 0, 0, -6.3 mm Reference Value = 0.499 A/m; Power Drift = 0.00498 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m		
Grid I	Grid 2	Grid 3
0.408	0.423	0.398
M2	M2	M2
Grid 4	Grid 5	Grid 6
0.456	0.471	0.439
M2	M2	M2
Grid 7	Grid 8	Grid 9
0.420	0.435	0.400
M2	M2	M2



0 dB = 0.471A/m

Certificate No: CD1880V3-1008_Nov09

Page 5 of 6

Testing Services™	Document Annex B_Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCW41GW		Page 13(13)	
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 07-08, 2010	RTS-2341-1004-60	L6ARCW40G	ť₩

3.3.3 DASY4 E-Field Result

Date/Time: 18.11.2009 17:16:43

Test Laboratory: SPEAG Lab2

 $\label{eq:hardware} \begin{array}{l} \mbox{HAC_RF_CD1880_1008_091118_E_CL} \\ \mbox{DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008} \\ \mbox{Communication System: CW; Frequency: 1880 MHz} \\ \mbox{Medium parameters used: $\sigma = 0 mho/m, $\epsilon_r = 1$; $\rho = 1000 kg/m^3$} \\ \mbox{Phantom section: RF Section} \\ \mbox{Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)} \\ \mbox{DASY5 Configuration:} \\ \mbox{Probe: ER3DV6 - SN2336; ConvF(1, 1, 1); Calibrated: 22.12.2008} \\ \mbox{Sensor-Surface: (Fix Surface)} \end{array}$

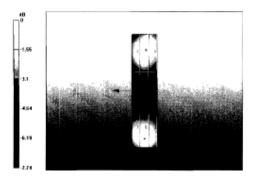
Electronics: DAE4 Sn781; Calibrated: 20.02.2009

- · Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Dipole E-Field measurement @ 1880MHz/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm Maximum value of peak Total field = 136.2 V/m Probe Modulation Factor = 1 Device Reference Point: 0, 0, -6.3 mm Reference Value = 152.3 V/m; Power Drift = -0.00386 dB Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field	Peak E-field in V/m			
Grid I	Grid 2	Grid 3		
124.7	132.1	131.1		
M2	M2	M2		
Grid 4	Grid 5	Grid 6		
86.6	90.1	87.7		
M3	M3	M3		
Grid 7	Grid 8	Grid 9		
130.7	136.2	132.2		
M2	M2	M2		



0 dB = 136.2V/m

Certificate No: CD1880V3-1008_Nov09

Page 6 of 6