SlackB	erry	Document Annex B to Hearing Aid Co Report for the BlackBerry® (SQW100-4)			Page 1(14)
Author Data Daoud Attayi	Dates of Test Feb. 04,	April 17-27, May 14, 2015	Report No RTS-6067-1505-04	FCC ID	RHR190LW

Annex B: Probe and dipole description and calibration certificates

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

SlackB	erry		mpatibility RF Emissions Tes Smartphone model RHR191I		Page 2(14)
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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 DASY4 Packages		<u>t Flyer</u> (PDF, 192kB)
EASY4 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: \pm 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: \pm 0.2 dB
Software Phantoms Robots	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 Tissue Simulating Liquids SPEAG Home	Application	General near-field measurements up to 6 GHz Field component measurements Fast automatic scanning in phantoms

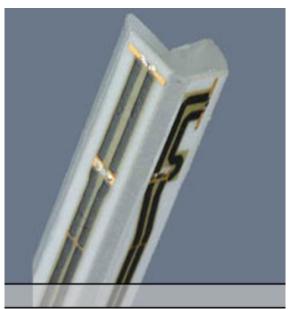
http://www.dasy4.com/er3.htm

SlackB	erry		mpatibility RF Emissions Test Smartphone model RHR191L		Page 3(14)
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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, 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.



E-Field Probe (ER3DV6)

SlackB	erry	Annex B to Hearing Aid Cor Report for the BlackBerry® (SQW100-4)	npatibility RF Emissions Test Smartphone model RHR191LV	v	Page 4(14)
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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:

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

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:

	$\mathrm{E-field probes}$:	$E_i = \sqrt{\frac{V_i}{Norm_i \cdot C}}$	ConvF
	$\mathbf{H}-\mathbf{fieldprobes}$:	$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}}{V_i}$	$\frac{f + a_{i2}f^2}{f}$
with	= compensated signal of α = 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 I Probes t in solution s 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):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$
(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%.

	Berry				RF Emissions Test e model RHR191L\	
^{or Data} oud Attayi	Dates of Test Feb. 04,	April 17-27, May	14, 2015	Report No RTS-6067	-1505-04	L6ARHR190LW
Cali	bration Labor	ratory of	"HI WILLIAM	S S	TST-SALL-000 Schweizerischer Kalibrierdienst	006
En	mid & Partner Igineering AG Pausstrasse 43, 8004	Zurich, Switzerland	lac MRA		Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service	
The St	wiss Accreditation S	creditation Service (SAS) Service is one of the signatories r the recognition of calibration			reditation No.: SCS 0108	
Client	Blackberry	/ Waterloo		Certificate No:	ER3-2286_Jan15	
CA	LIBRATIO	N CERTIFICATI	E	The Part		
Objec	zt	ER3DV6 - SN:22	86			
Calibr	ration procedure(s)	QA CAL-02.v8, G Calibration proce evaluations in air	dure for E-field p	probes optimized f	for close near field	
Calib	ration date:	January 19, 2015	5			1
The n	neasurements and the	documents the traceability to nati- te uncertainties with confidence p conducted in the closed laborato ad (M&TE critical for calibration)	robability are given on	the following pages and	are part of the certilicate.	
Prim	ary Standards	ID	Cal Date (Car	tificate No.)	Scheduled Calibration	
	ary Standards er meter E4419B	GB41293874	03-Apr-14 (No	. 217-01911)	Jan-16	
Powe	er meter E4419B er sensor E4412A	GB41293874 MY41498087	03-Apr-14 (No 03-Apr-14 (No	o. 217-01911) o. 217-01911)	Jan-15	
Power Power Rofe	er meter E4419B er sensor E4412A erence 3 dB Attenuato	GB41293874 MY41498087 or SN: S5054 (3c)	03-Apr-14 (No 03-Apr-14 (No 03-Apr-14 (No	o. 217-01911) o. 217-01911) o. 217-01915)	Jan-16	
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Pow Pow Refe Refe	er mater E4419B er sensor E4412A erence 3 dB Attenuato erence 20 dB Attenuat erence 30 dB Attenuat arence Probe ER30V6	GB41283874 MY41498087 or SN: S8054 (30) tor SN: S5277 (20x) tor SN: S5129 (30b)	03-Apr-14 (No 03-Apr-14 (No 03-Apr-14 (No 03-Apr-14 (No 03-Apr-14 (No 03-Apr-14 (No 03-Apr-14 (No	2 217-01911) 2 217-01911) 2 217-01915) 2 217-01915) 2 217-01919) 2 217-01920)	Jan-15 Jan-15 Jan-15 Jan-15 Jan-15	
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Black			the BlackBerry®	ompatibility RF Em Smartphone mod	el RHR191LW	6(14)
Author Data Daoud Attayi	Dates of Test Feb. 04,	April 17-27,	May 14, 2015	Report No RTS-6067-1505-	04 FCC I	□ ARHR190LW
Schr	nid & Partner gineering AG usstrasse 43, 800			C Service S Service	izoriacher Kalibrierdienst auisso d'étalonnage o svizzero di taratura Zalibration Service	
The Sy Multile Glos	viss Accreditation teral Agreement fo Sary: Áx,y,z		gnatories to the EA libration certificates space	1	on No.: SCS 0108	
Polari Polari	zation @ zation 8 ector Angle	 φ rotation around 9 rotation around i.e., 9 = 0 is norm 	l probe axis an axis that is in the pla nal to probe axis	ne normal to probe axis (at m probe sensor X to the robot of		
Calil a	IEEE Std 130 antennas, fro	rformed Accord 19-2005, " IEEE Star m 9 kHz to 40 GHz"	ling to the Following			
	NORMX, y, z: /			sensors and 9 = 90 for Z ser	nsor (f ≤ 900 MHz in	
	NORM(f)x,y,z	z = NORMx,y,z * free	quency_response (see F	requency Response Chart).		
•			earization parameters as DCP does not depend on	sessed based on the data of frequency nor media.	power sweep with CW	
•	PAR: PAR is characteristic		e Ratio that is not calibra	led but determined based on	the signal	
	the data of po	ower sweep for spec	ific modulation signal. Th	erical linearization parameter te parameters do not depend RMS voltage across the dioc	on frequency nor	
•	Spherical iso waveguide se		from iso(ropy): in a locally	homogeneous field realized	using an open	
		t: The sensor offset s). No tolerance req		t of virtual measurement cent	er from the probe tip	
•	Connector An uncertainty re		ssessed using the inform	ation gained by determining th	he NORMx (no	

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SlackB	erry		npatibility RF Emissions Test Smartphone model RHR191LV		
Author Data Daoud Attayi	Dates of Test Feb. 04,	, April 17-27, May 14, 2015	Report No RTS-6067-1505-04	L6ARHR190LW	

January 19, 2015

Probe ER3DV6

SN:2286

Manufactured: Calibrated: September 18, 2002 January 19, 2015

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

Certificate No: ER3-2286_Jan15

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SlackB	erry	•	npatibility RF Emissions Test Smartphone model RHR191L\		Page 8(14)
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January 19, 2015

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	1.47	1.51	± 10.1 %
DCP (mV) ⁸	98.9	100.3	99.7	

Modulation Calibration Parameters

UID	Communication System Name		A	B dBõV	C	D dB	VR mV	Unc ^L (k=2)
0	CW	X	0.0	0.0	1.0	0.00	182.8	±3.8 %
		Y	0.0	0.0	1.0		197.2	
		Z	0.0	0.0	1.0		175.9	

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%.

⁶ Numerical linearization parameter: uncertainty not required.
⁶ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

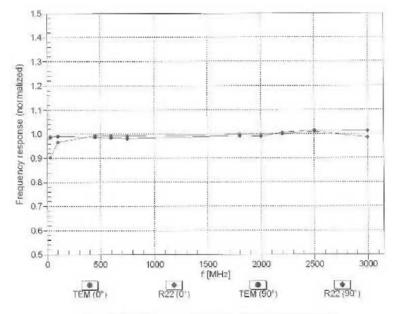
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Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

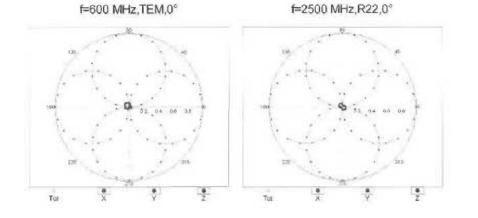
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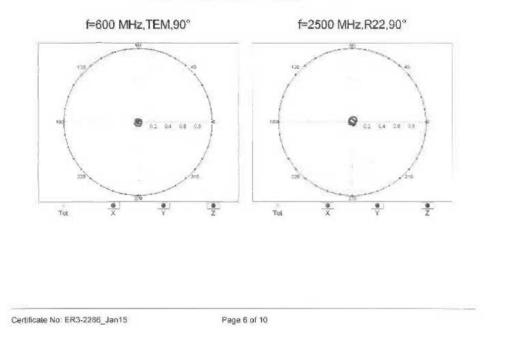
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January 19, 2015

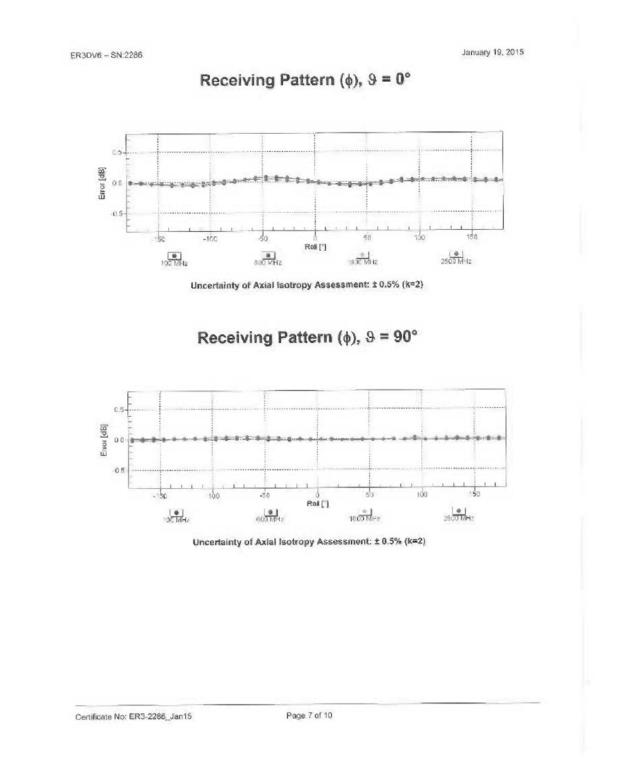
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



Receiving Pattern (\$), & = 90°



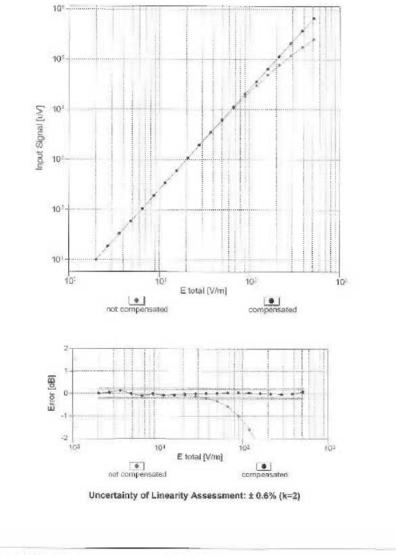
*** BlackBerry		(SQW100-4)			Page 11(14)
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Dynamic Range f(E-field) (TEM cell, f = 900 MHz)

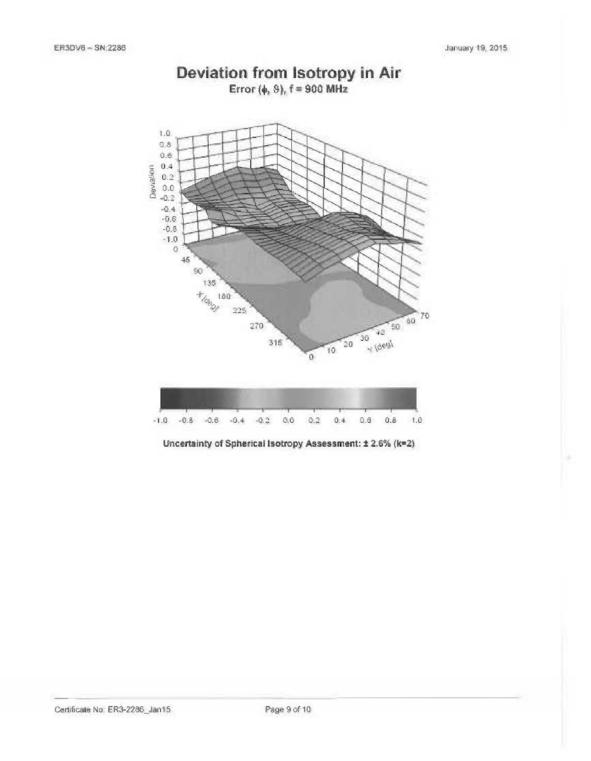


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SlackBerry			x B to Hearing Aid Compatibility RF Emissions Test t for the BlackBerry⊛ Smartphone model RHR191LW 100-4)		Page 14(14)
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January 19, 2015

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

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (*)	-6.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	8 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	2.5 mm
Probe Tip to Sensor Z Calibration Point	2.5 mm

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