HAC TEST REPORT

Report No.:	SET2013-05226
Product:	Coolpad Flo
Model No.:	Coolpad 7560T
Brand Name:	Coolpad
FCC ID:	R38YL7560T
IC ID:	10367A-YL7560T
Applicant:	Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD
Address:	Hi-Tech Industry Park(North),Nanshan District, Shenzhen City,Guangdong Province,P.R.C
Issued by:	CCIC-SET
Lab Location:	Electronic Testing Building, Shahe Road，Xili, Nanshan District, Shenzhen, 518055, P. R. China
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Test Report

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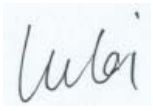
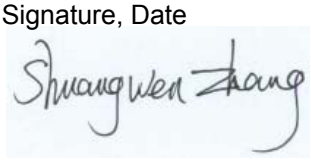
Applicant Address……..:	Hi-Tech Industry Park(North), Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Manufacturer……..:	Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD
Manufacturer Address……..:	Hi-Tech Industry Park(North), Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Rating .....:	5Vdc 900mA(Charger) or 3.7V 1880mAh(Battery)
Test Standards……..:	ANSI C63.19-2007 FCC 47CFR § 20.19
Test Result……..:	Pass
Tested by ……..:	 2013-09-10 Signature, Date
Reviewed by……..:	 2013-09-10 Signature, Date
Approved by……..:	 2013-09-10 Signature, Date

Contents

This Test Report consists of the following Annexes:

1. GENERAL CONDITIONS

1.1 This report only refers to the item that has undergone the test.

1.2 This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities.

1.3 This document is only valid if complete; no partial reproduction can be made without written approval of CCIC-SET

1.4 This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of CCIC-SET and the Accreditation Bodies, if it applies.

2. Administrative Date

2.1. Identification of the Responsible Testing Laboratory

Company Name:	CCIC-SET
Department:	EMC & RF Department
Address:	Electronic Testing Building, Shahe Road, Nanshan District, ShenZhen, P. R. China
Telephone:	+86-755-26629676
Fax:	+86-755-26627238
Responsible Test Lab Managers:	Mr. Wu Li'an

2.2. Identification of the Responsible Testing Location(s)

Company Name:	CCIC-SET
Address:	Electronic Testing Building, Shahe Road, Nanshan District, Shenzhen, P. R. China

2.3. Organization Item

CCIC-SET Report No.:	SET2013-05226
CCIC-SET Project Leader:	Mr. Li Sixiong
CCIC-SET Responsible for accreditation scope:	Mr. Wu Li'an
Start of Testing:	2013-09-02
End of Testing:	2012-09-04

2.4. Identification of Applicant

Company Name:	Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD
Address:	Hi-Tech Industry Park(North),Nanshan District, Shenzhen City,Guangdong Province,P.R.C

2.5. Identification of Manufacture

Company Name:	Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD
Address:	Hi-Tech Industry Park(North),Nanshan District, Shenzhen City,Guangdong Province,P.R.C

Notes: This data is based on the information by the applicant.

3. Equipment Under Test (EUT)

3.1. Identification of the Equipment under Test

Sample Name:	Coolpad Flo	
Type Name:	Coolpad 7560T	
Brand Name:	Coolpad	
General description:	Support Band	GSM 850MHz/ GSM 1900MHz WCDMA 850MHz/ WCDMA 1700MHz/ WCDMA 1900MHz Wi-Fi 2.4GHz/ Bluetooth 2.4GHz
	Test Band	GSM 850MHz/ GSM 1900MHz WCDMA 850MHz/ WCDMA 1700MHz/ WCDMA 1900MHz
	Development Stage	Identical Prototype
	Accessories	Power Supply
	Battery type	CPLD-315
	Battery specification	1880mAh 3.7V
	Antenna type	IFA Antenna
	Operation mode	GSM/PCS GPRS /EGPRS: Multislot Class12 WCDMA/HSDPA/HSUPA
	Modulation mode	GMSK, 8PSK, QPSK, 16QAM, DSSS, OFDM, GFSK/∏/4-DQPSK/8-DPSK
	Max. RF Power	31.7 dBm

NOTE:

a. The EUT is a model of Coolpad Flo operating in GSM850/PCS1900/ WCDMA850/ WCDMA1700/WCDMA1900 band, Bluetooth 2.4GHz and Wi-Fi in 2.4GHz.

b. Please refer to Appendix C for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

4 Hearing Aid Compatibility (HAC)

4.1 Introduction

The purpose of the Hearing Aid Compatibility extension is to enable measurements of the near electric and magnetic fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2010 FCC has granted a request for waiver of the HAC rules in section 20.19 for dual band GSM handsets. The waiver has specific conditions, as stated in the order (FCC 05-166) and expires 1 August 2007.

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

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

a) Radio frequency (RF) measurements of the near-field electric and magnetic fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing aid.
b) Magnetic field measurements of a WD emitted via the audio transducer associated with the T-coil mode of the hearing aid, for assessment of hearing aid performance.
c) Measurements with the hearing aid and a simulation of the categorized WD T-coil emissions to assess the hearing aid RF immunity in the T-coil mode.

The WD radio frequency (RF) and audio band emissions are measured.

Hence, the following are measurements made for the WD:

a) RF E-Field emissions
b) RF H-Field emissions
c) T-coil mode, magnetic signal strength in the audio band
d) T-coil mode, magnetic signal and noise articulation index
e) T-coil mode, magnetic signal frequency response through the audio band

Corresponding to the WD measurements, the hearing aid is measured for:

a) RF immunity in microphone mode
b) RF immunity in T-coil mode

4.2 Description of Test System

4.2.1 COMOHAC E-FIELD PROBE

Serial Number:	SN 02/12 EPH34
Frequency:	0.7GHz – 2.5GHz
Probe length:	330mm
Length of one dipole:	3.3mm
Maximum external diameter:	8mm
Probe extremity diameter:	5mm
Distance between dipoles/probe extremity:	3mm
Resistance of the three dipole (at the connector):	Dipole 1:R1=1.201 MΩ Dipole 2:R1=1.193 MΩ Dipole 3:R3=0.994 MΩ

4.2.2 COMOHAC H-FIELD PROBE

Serial Number:	SN 02/12 HPH45
Frequency:	0.7GHz – 2.5GHz
Probe length:	330mm
Length of one dipole:	3.3mm
Maximum external diameter:	8mm
Probe extremity diameter:	5mm
Distance between dipoles/probe extremity:	3mm
Resistance of the three dipole (at the connector):	Dipole 1:R1=0.296 MΩ Dipole 2:R1=0.459 MΩ Dipole 3:R3=0.271 MΩ

4.2.3 COMOHAC T-COIL PROBE

Serial Number:	SN 24/11 TCP23
Frequency range:	200 Hz -5000 Hz
Dimensions:	6.55mm length*2.29mm diameter
DC resistance:	860.6 Ω
Wire size:	51 AWG
Inductance:	132.1 mH at 1kHz
Sensitivity:	-60.20 dB (V/A/m) at 1kHz

4.2.4 System Hardware

The HAC positioning ruler is used to position the phone properly with the regard to the position of the probe during a measurement. The positioning system is made of a dedicated frame that can be fixed on the table. The tip of the probe is positioned on a reference point located on the top of the positioning ruler. The distance between this reference point and the cross located on the ruler being known, the speaker of the phone is positioned on this cross in order to make sure both probe and phone are positioned properly.

During the measurement, the HAC ruler has to be removed so that it does not interfere with the measurement.

Position device

5 OPERATIONAL CONDITIONS DURING TEST

5.1 Schematic Test Configuration

During SAR test, EUT was operating in Traffic Mode (Channel Allocated) at Normal Voltage Condition. A communication link is set up with a System Simulator (SS) by air link, and a call is established.

The Absolute Radio Frequency Channel Number (ARFCN) was allocated to 128, 189 and 250 respectively in the case of GSM 850MHz, or to 513, 661 and 809 respectively in the case of PCS 1900MHz, or to 4357, 4400 and 4458 respectively in the case of WCCDMA 850MHz, or to 1537, 1637 and 1738 respectively in the case of WCDMA 1700 MHz, or to 9662, 9800 and 9938 respectively in the case of WCDMA 1900 MHz. The EUT was commanded to operate at maximum transmitting power.

The EUT should use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link was used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset.

The signal transmitted by the simulator to the antenna feeding point should be lower than the output power level of the handset by at least 35 dB

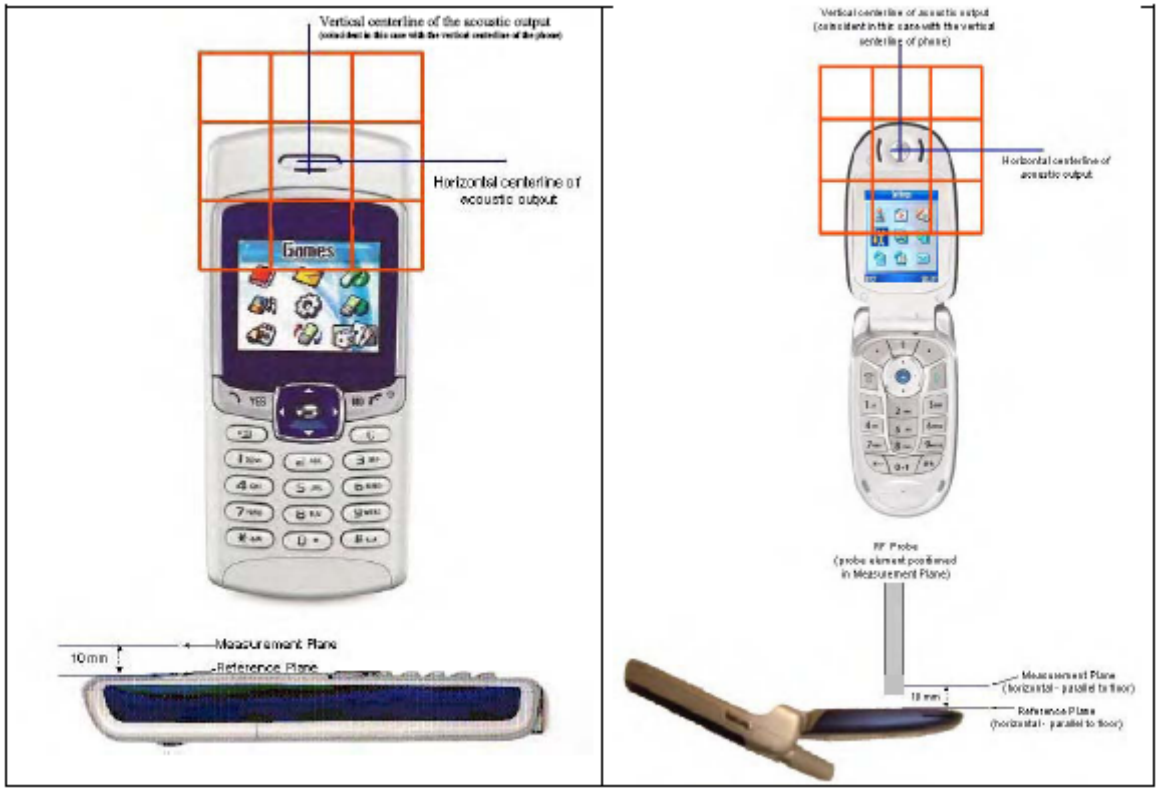
Air-interface	Band (MHz)	Type	C63.19-2007 Tested	Simultaneous Transmissions Scenarios invoice (Not to be tested)	Reduced power	VOIP
GSM	850	Voice	Yes	Yes: WIFI or BT	N/A	N/A
	1900	Voice	Yes	Yes: WIFI or BT	N/A	N/A
	GPRS	Data	N/A	N/A	N/A	N/A
WCDMA	850	Voice	Yes	Yes: WIFI or BT	N/A	N/A
	1700	Voice	Yes	Yes: WIFI or BT	N/A	N/A
	1900	Voice	Yes	Yes: WIFI or BT	N/A	N/A
	HSDPA	Data	N/A	N/A	N/A	N/A
	HSUPA	Data	N/A	N/A	N/A	N/A
WIFI	2450	Data	N/A	Yes GSM or WCDMA	N/A	N/A
BT	2450	Data	N/A	Yes GSM or WCDMA	N/A	N/A

The volume is at the maximum value, and the backlight of the phone is turned off. The Manufacturer doesn't design HAC mode software on the EUT

5.2 HAC Measurement System

The HAC measurement system being used is the COMO HAC system, the system is controlled remotely from a PC, which contains the software to control the robot and data acquisition equipment. The software also displays the data obtained from test scans.

In operation, the system first does an 2D scan at a fixed depth within a 50mm*50mm area. When the maximum HAC point has been found, the system will then carry out a 3D scan centred at that point to determine volume averaged HAC level.



WD reference and plane for RF emission measurements

5.3 Magnetic measurement locations for the WD

T-Coil measurement points and reference planeThe following figure illustrates the three standard probeorientations. Position 1 is the axial orientation of the probe coil;orientation 2 and orientation 3 are radial orientations. The space between themeasurement positions is not fixed. It is recommended that a scan of the EUT bedone for each probe coil orientation and that the maximum level recorded beused as the reading for that orientation of the pro be coil.

1) The reference plane is the planar area that contains thehighest point in the area of th e phone that normally rests against the user'sear. It is parallel to the centerline of the recei ver area of the phone and isdefined by the points of the receiver-end of the EUT handset,

which, in normal handsetuse, rest against the ear.

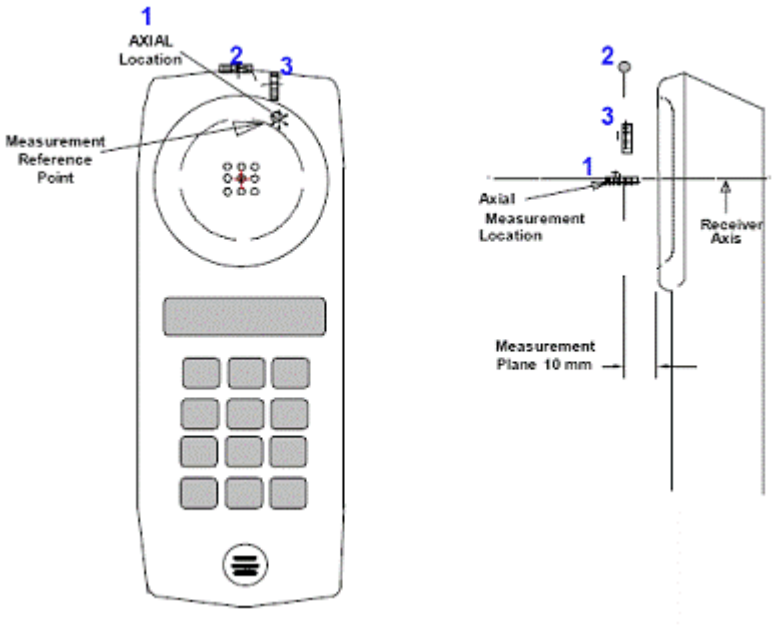
2) The measurement plane is parallel to, and10 mmin front of, the reference plane.

3) The reference axis is normal to the reference plane andpasses through the center of t he receiver speaker section (or the center of thehole array); or may be centered on a seco ndary inductive source. The actuallocation of the measurement point shall be noted in the t est report as the measurementreference point.

4) The measurement points may be located where the axialand radial field intensity mea surements are optimum with regard to therequirements. However, the measurement points should be near the acousticoutput of the EUT and shall be located in the same half of the phone as the EUTreceiver. In a EUT handset with a centered receiver and a circularly sym metricalmagnetic field, the measurement axis and the reference axis would coincide.

5) The relative spacing of each measurement orientation isnot fixed. The axial and two r adial orientations should be chosen to select theoptimal position.

6) The measurement point for the axial position is located10 mmfrom the reference plan e on themeasurement axis. The actual location of the measurementpoint shall be noted in test reports and designated as the measurement reference point.



Axis and planes for EUT audio frequency magnetic field measurements

5.4 Equipments and results of validation testing

Important equipments :

Equipment description	Manufacturer/Model	Identification No.
E-Field Probe	SATIMO/SCE	SN 02/12 EPH34
H-Field Probe	SATIMO/SCH	SN 02/12 HPH45
T-Coil Probe	SATIMO/STCOIL	SN 24/11 TCP23
Dipole	SATIMO/SIDB835	SN 18/12 DHA37
Dipole	SATIMO/SIDB1900	SN 18/12 DHB42
TMFS	SATIMO/STMFS	SN 22/12 TMFS15
Vector Network Analyzer	Rohde & Schwarz/ZVB8	1145.1010.08
Amplifier	Nucletudes	143060
Power Meter	Rohde & Schwarz - NRVS	1020.1809.02
Multimeter	Keithley - 2000	4014020

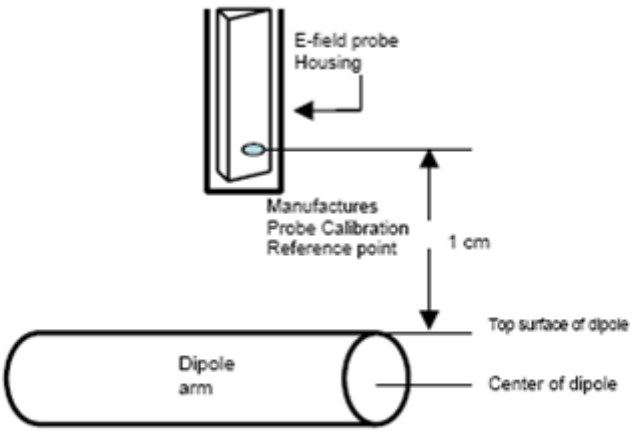
5.4.1 System Check Parameters

The input signal was an unmodulated continuous wave. The following points were taken into consideration in performing this check:

• Average Input Power P = 100mW RMS (20dBm RMS) after adjustment for return loss

• The test fixture must meet the 2 wavelength separation criterion

• The proper measurement of the 1 cm probe to dipole separation, which is measured from top surface of the dipole to the calibration reference point of the sensor, defined by the probe manufacturer is shown in the following diagram:



Separation Distance from Dipole to Field Probe

RF power was recorded using both an average reading meter and a peak reading meter. Readings of the probe are provided by the measurement system.

To assure proper operation of the near-field measurement probe the input power to the dipole shall be commensurate with the full rated output power of the wireless device (e.g. - for a cellular phone wireless device the average peak antenna input power will be on the order of 100mW (i.e. - 20dBm) RMS after adjustment for any mismatch.

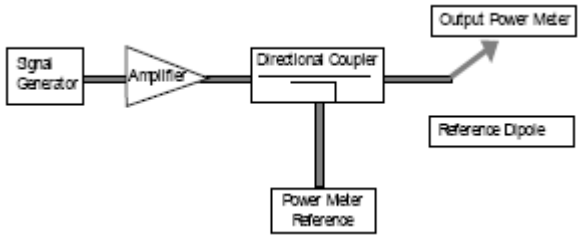
5.4.2 Validation Procedure

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

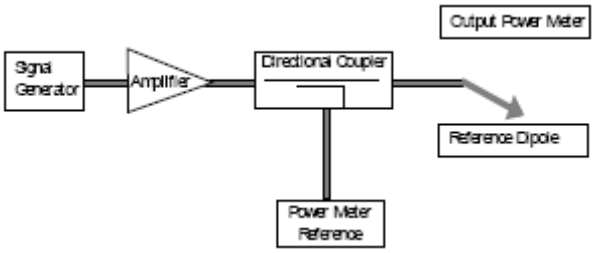
The length of the dipole was scanned with both E-field and H-field probes and the maximum values for each were recorded.

Using the near-field measurement system, scan the antenna over the radiating dipole and record the greatest field reading observed. Due to the nature of E-fields about free-space dipoles, the two E-field peaks measured over the dipole are averaged to compensate for non-paralellity of the setup see manufacturer method on dipole calibration certificates, field strength measurements shall be made only when the probe is stationary.

RF power was recorded using both an average and a peak power reading meter.



Setup for Desired Output Power to Dipole



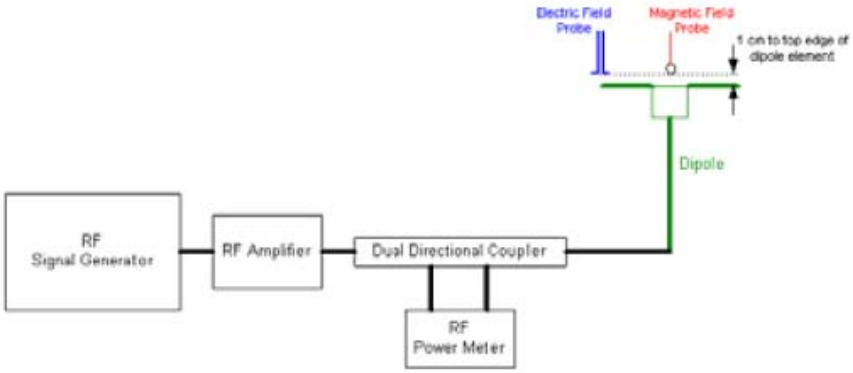
Setup to Dipole

Using this setup configuration, the signal generator was adjusted for the desired output power (100mW) at a specified frequency. The reference power from the coupled port of the directional coupler is recorded. Next, the output cable is connected to the reference dipole.

5.4.3 Test System Validation

Validation Results (20dBm forward input power), System checks the specific test data please see Annex C.

Frequency	Input Power (dBm)	E-field Result (V/m)	Target Field (V/m)	Deviation (%)
850 MHz	20.0	196	205	-4.4
1750MHz	20.0	158.58	165	-3.9
1900MHz	20.0	161.52	165	-2.1
Frequency	Input Power (dBm)	H-field Result (A/m)	Target Field (A/m)	Deviation (%)
850 MHz	20.0	0.429	0.448	-4.2
1750MHz	20.0	0.422	0.452	-6.6
1900MHz	20.0	0.438	0.452	-3.1



System Check Setup

5.4.4 Probe Modulation Factor (PMF)

The Probe Modulation Factor (PMF) is defined as the ratio of the field readings for a CW and a modulated signal with the equivalent Field Envelope Peak as defined in the Standard. The field level of the test signals shall be more than 10 dB above the ambient level and the noise floor of the instrumentation being used. The ratio of the CW reading to that taken with a modulated field shall be applied to the readings taken of modulated fields of the specified type.

All voice modes for this device have been investigated in this section of the report.

The step was done according to the following procedure:

1. Fixing the probe in a set location relative to a field generating device.

2. Illuminate the probe with a CW signal at the intended measurement frequency.

3. Record the reading of the probe measurement system of the CW signal.

4. Determine the level of the CW signal being used to drive the field generating device.

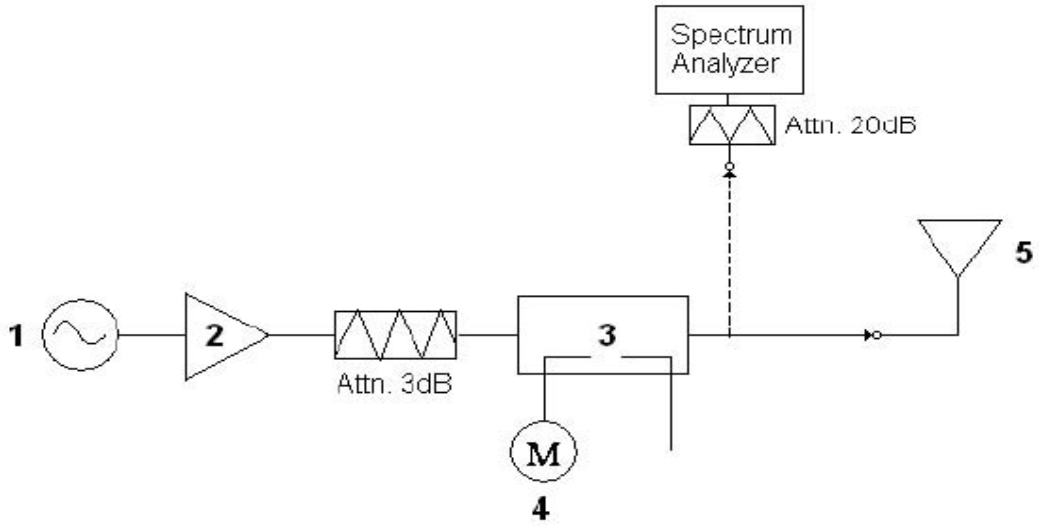
5. Substitute a signal using the same modulation as that used by the intended WD for the CW signal.

6. Set the peak amplitude during transmission of the modulated signal to equal the amplitude of the CW signal.

7. Record the reading of the probe measurement system of the modulated signal.

8. The ratio of the CW to modulated signal reading is the modulation factor.

9. Repeat 2~8 steps at intended measurement frequency for both E and H field probe.



PMF measurement setup

PMF Summary:

Probe	Frequency (MHz)	Type of signal	E-Field (V/m)	PMF
E-Field Probe	835	GSM	566.44	2.89
		CW	196	
	1880	GSM	165.17	2.88
		CW	161.52	
H-Field Probe	835	GSM	1.231	2.87
		CW	0.429	
	1880	GSM	1.265	2.89
		CW	0.438	

Probe	Frequency (MHz)	Type of signal	E-Field (V/m)	PMF
E-Field Probe	835	WCDMA	194.1	0.99
		CW	196	
	1880	WCDMA	159.9	0.99
		CW	161.52	
H-Field Probe	835	WCDMA	0.424	0.99
		CW	0.429	
	1880	WCDMA	0.433	0.99
		CW	0.438	

Note: Modulation factor= Ecw / Emod and similar for H.

6 CHARACTERISTICS OF THE TEST

6.1 Applicable Limit Regulations

Table 1 Telephone near-field categories in linear units (<960MHz)

Category	AWF (dB)	Limits for E-Field Emission (V/m)	Limits for H-Field Emission (A/m)
M1	0	631.0 - 1122.0	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631.0	1.07 - 1.91
	-5	266.1 - 473.2	0.80 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.80
M4	0	<199.5	<0.60
	-5	<149.6	<0.45

Table 2 Telephone near-field categories in linear units (>960MHz)

Category	AWF (dB)	Limits for E-Field Emission (V/m)	Limits for H-Field Emission (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.15

Table 3 T-Coil Mode Categories

Category	Telephone RF Parameter
	Wireless Device Signal Quality (Signal + Noise-to-noise ratio in dB)
T1	0 to 10 dB
T2	10 to 20 dB
T3	20 to 30 dB
T4	＞30 dB

6.2 Applicable Measurement Standards

ANSI C63.19-2007: American National Standard Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

It specifies the measurement method for demonstration of compliance with the HAC limits for such equipments.

7 LABORATORY ENVIRONMENT

Table 4: The Ambient Conditions during HAC Test

Temperature	Min. = 15 ° C, Max. = 30 ° C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards.	
Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

8 TEST RESULTS

8.1 Summary of Power Measurement Results

The power level results were listed in the following two tables:

Table 5: Conducted RF Power of GSM850

Band	GSM 850			GSM 1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GSM	31.7	31.7	31.68	28.04	28.35	28.33

Table 6: Conducted RF Power of WCDMA

Band	WCDMA 850			WCDMA 1700			WCDMA 1900		
TX Channel	4132	4182	4233	1312	1412	1513	9262	9400	9538
RX Channel	4357	4408	4458	1537	1637	1738	9662	9800	9938
Frequency	826.4	836.4	846.6	1712.4	1732.4	1752.6	1852.4	1880	1907.6
RMC 12.2K	22.64	22.71	22.68	20.48	21.76	20.67	21.57	22.02	22.15

8.2 Summary of Measurement Results

Table 7: RF Emission Values of the EUT

Temperature: 23.0~23.5°C, humidity: 62~64%.						
Band	Channel	AWF (dB)	Frequency (MHz)	Test Results		Category
				E-field (V/m)	H-field (A/m)	
GSM850	128	-5	824.2	72.73	0.17	M3
	189	-5	836.4	89.44	0.17	M3
	251	-5	848.8	91.42	0.18	M3
GSM1900	512	-5	1850.2	27.06	0.04	M4
	661	-5	1880.0	49.59	0.05	M3
	810	-5	1909.8	38.46	0.05	M4
WCDMA850	4132	0	826.4	31.93	0.07	M4
	4182	0	836.4	29.18	0.06	M4
	4233	0	846.6	30.89	0.06	M4
WCDMA1700	1312	0	1712.4	20.84	0.08	M4
	1412	0	1732.4	29.38	0.08	M4
	1513	0	1752.6	23.87	0.07	M4
WCDMA1900	9262	0	1852.4	25.96	0.06	M4
	9400	0	1880.0	26.43	0.06	M4
	9538	0	1907.6	25.68	0.07	M4

Table 8: T-Coil Values of the EUT

Temperature: 23.0~23.5°C, humidity: 62~64%.						
Band	Channel	Frequency (MHz)	Test Results (dB)			Category
			Axial	Radial H	Radial V	
GSM850	189	836.4	34.10	26.47	22.72	T3
GSM1900	661	1880.0	34.20	28.35	24.31	T3
WCDMA850	4182	836.0	38.82	36.91	36.87	T4
WCDMA1700	1412	1732.4	32.25	31.59	32.51	T4
WCDMA1900	9538	1907.0	37.80	37.00	34.59	T4

8.3 Conclusion

Both RF emission values and T-Coil values of this portable wireless device were measured in all cases requested by the relevant standards cited in Clause 6 of this report. All of the results were **below** exposure limits specified in the relevant standards.

9 Measurement Uncertainty

Table 9: Measurement Uncertainty of RF Emission Test

Uncertainty Component	Uncertainty value	Probe Dist.	Div	(Ci) E	(Ci) H	Std. Unc.(+-%)	
						E	H
Measurement System							
Probe calibration	6.00	N	1.000	1	1	6.00	6.00
Axial Isotropy	2.02	R	1.732	1	1	1.17	1.17
Sensor Displacemant	14.30	R	1.732	1	0.217	8.26	1.79
Boundary effect	2.50	R	1.732	1	1	0.87	0.87
Phantom Boundary effect	6.89	R	1.732	1	0	3.52	0.00
Linearity	2.58	R	1.732	1	1	1.49	1.49
Scaling to PMR Calibration	9.02	N	1.000	1	1	9.02	9.02
System Detection Limit	1.30	R	1.732	1	1	0.75	0.75
Readout Electronics	0.25	R	1.732	1	1	0.14	0.14
Reponse Time	1.23	R	1.732	1	1	0.71	0.71
Integration Time	2.15	R	1.732	1	1	1.24	1.24
RF Ambient Conditions	2.03	R	1.732	1	1	1.17	1.17
RF Reflections	9.09	R	1.732	1	1	5.25	5.25
Probe positioner	0.63	N	1.000	1	0.71	0.63	0.45
Probe positioning	3.12	N	1.000	1	0.71	3.12	2.22
Extrapolation and Interpolation	1.18	R	1.732	1	1	0.68	0.68
Uncertainties of the EUT							
Test sample positioning Vertical	2.73	R	1.732	1	0.71	1.58	1.12
Test sample positioning Lateral	1.19	R	1.732	1	1	0.69	0.69
Device Holder and Phantom	2.20	N	1.000	1	1	2.20	2.20
Power Drift	4.08	R	1.732	1	1	2.36	2.36
Phantom and Setup Related							
Phantom Thickness	2.00	N	1.000	1	0.6	2.00	1.20
Conbined Std. Uncertainty(k=1)						16.18	13.25
Expanded Uncertainty on Power						32.35	26.50
Expanded Uncertainty on Field						16.18	13.25

Note:

N-Nomal

R-Rectangular

Div.- Divisor used to obataion standard uncertanty

Table 10: Measurement Uncertainty of T-Coil Test

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) ui(%)	Degree of freedom Veff or vi
	Measurement System							
1	－Probe Calibration	B	6	N	3	1	3.5	∞
2	－Axial isotropy	B	4.7	R	1.732	0.5	4.3	∞
3	－Hemispherical Isotropy	B	9.4	R	1.732	0.5	4.3	∞
4	－Boundary Effect	B	11.0	R	1.732	1	6.4	∞
5	－Linearity	B	4.7	R	1.732	1	2.7	∞
6	－System Detection Limits	B	1.0	R	1.732	1	0.6	∞
7	－Probe Coil Sensitivity	B	0.49	R	1.732	1	0.28	∞
8	－Response Time	B	0.00	R	1.732	1	0.00	∞
9	－Integration Time	B	0.00	R	1.732	1	0.00	∞
10	－RF Ambient Conditions	B	3.0	R	1.732	1	1.73	∞
11	－Probe Position Mechanical tolerance	B	0.4	R	1.732	1	0.2	∞
12	－Probe Position with respect to Phantom Shell	B	2.9	R	1.732	1	1.7	∞
	Uncertainties of the DUT							
13	－Position of the DUT	A	4.8	N	3	1	4.8	5
14	－Holder of the DUT	A	7.1	N	3	1	7.1	5
15	－Repeatability of the WD	B	5.0	R	1.732	1	2.9	∞
	Acoustic noise							
16	－Acoustic noise	B	1.0	R	1.732	1	0.6	∞
21	－Cable loss	B	0.46	N	1.732	1	0.46	∞
Combined Standard Uncertainty				RSS			17.26	42.33
Expanded uncertainty (Confidence interval of 95 %)				K=2			34.52	

10 MAIN TEST INSTRUMENTS

No	EQUIPMENT	TYPE	Series No.	Due Date
1	E-Field Probe	SATIMO/SCE	SN 02/12 EPH34	2014-02-23
2	H-Field Probe	SATIMO/SCH	SN 02/12 HPH45	2014/04/05
3	T-Coil Probe	SATIMO/STCOIL	SN 24/11 TCP23	2014/04/05
4	Dipole	SATIMO/SIDB835	SN 18/12 DHA37	2014/04/05
5	Dipole	SATIMO/SIDB1900	SN 18/12 DHB42	2014/04/05
6	TMFS	SATIMO/STMFS	SN 22/12 TMFS15	2014/04/05
7	Vector Network Analyzer	ZVB8	1145.1010.08	2014/06/13
8	Amplifier	Nucletudes	143060	2014/04/05
9	Power Meter	NRVS	1020.1809.02	2014/06/13
10	Multimeter	Keithley - 2000	4014020	2014/04/05

ANNEX C

of

CCIC-SET

CONFORMANCE TEST REPORT FOR

HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SET2013-05226

Coolpad Flo

Type Name: Coolpad 7560T

Hardware Version： P2

Software Version： 4.1.009.P2.130819.7560T

System Performance Check Data

This Annex consists of 7 pages

Date of Report：2013-09-04

System Performance Check (E, 835MHz)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

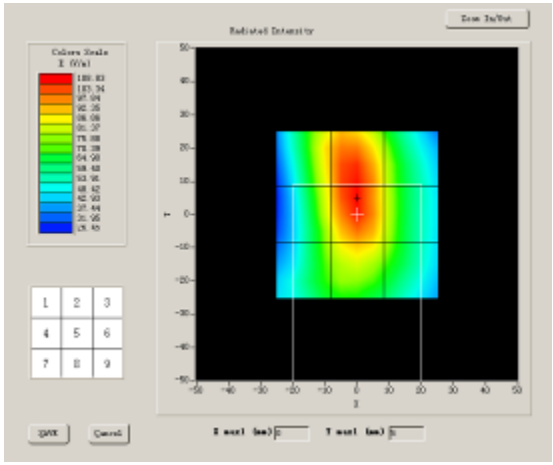
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	CUSTOM (CW835)
Channel	Low
Signal	Duty Cycle: 1

B. HAC Measurement Results

Frequency (MHz): 835.000000

SURFACE HAC



Device Reference Point: 0 , 0 , -7mm
Reference Value=193.184V/m; Power Drift:-1.4%

Probe Modulation Factor= 1.00
Maximum value of total field = 196.00 V/m;Location: 0, 7, 3 mm

E in V/m

Grid 1: 194.51	Grid 2: 198.12	Grid 3: 177.56
Grid 4: 192.69	Grid 5: 196.00	Grid 6: 178.98
Grid 7: 181.13	Grid 8: 194.18	Grid 9: 176.51

System Performance Check (H, 835MHz)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

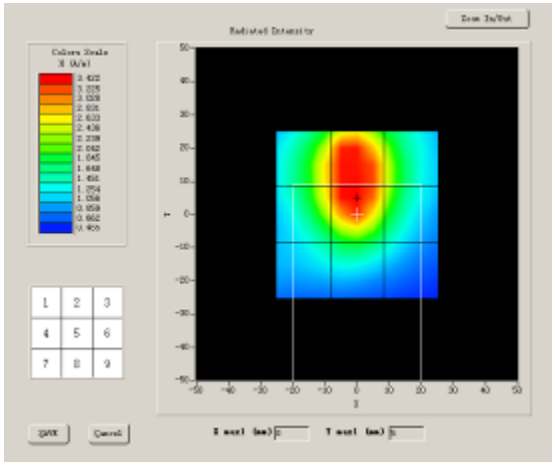
A. Experimental conditions.

Grid size (mm x mm)	20.0, 40.0
Step (mm)	5
Band	CW835
Channel	Middle
Signal	CW

B.. HAC Measurement Results

Frequency (MHz): 835.000000

SURFACE HAC



Device Reference Point: 0 , 0 , -7mm
Reference Value=0.412 A/m; Power Drift:-4.0%

Probe Modulation Factor= 1.00
Maximum value of total field = 0.429 A/m;

H in A/m

Grid 1: 0.302	Grid 2: 0.421	Grid 3: 0.336
Grid 4: 0.381	Grid 5: 0.429	Grid 6: 0.332
Grid 7: 0.370	Grid 8: 0.400	Grid 9: 0.239

System Performance Check (E, 1750MHz)

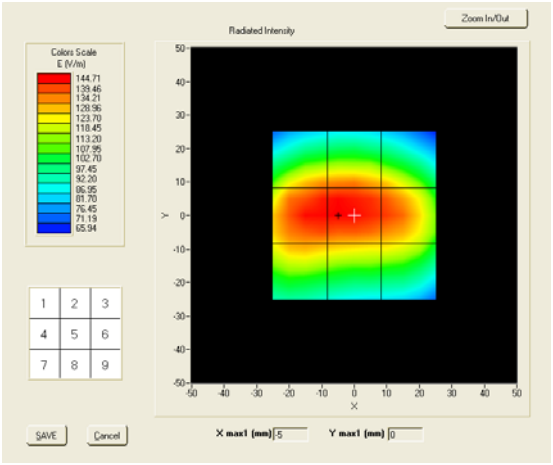
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	20.0, 80.0
Step (mm)	5
Band	CUSTOM (CW1750)
Channel	Middle
Signal	Duty Cycle: 1

B. HAC Measurement Results

Frequency (MHz): 1750.000000

SURFACE HAC


Maximum value of total field = 158.58V/m;
E in V/m

Grid 1: 146.03	Grid 2: 147.61	Grid 3: 140.26
Grid 4: 158.17	Grid 5: 158.58	Grid 6: 153.79
Grid 7: 145.94	Grid 8: 144.20	Grid 9: 140.54

System Performance Check (H, 1750MHz)

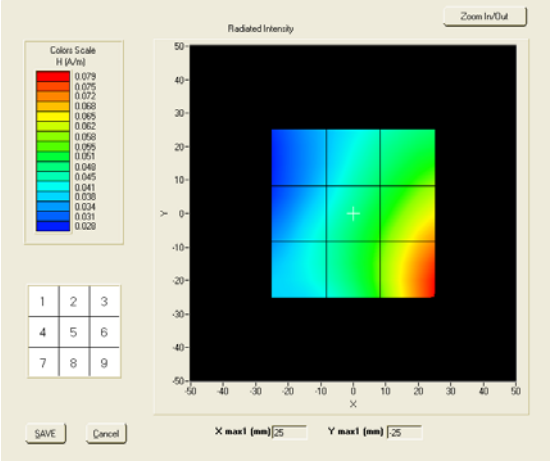
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	20.0, 80.0
Step (mm)	5
Band	CUSTOM (CW1750)
Channel	Middle
Signal	Duty Cycle: 1

B. HAC Measurement Results

Frequency (MHz): 1750.000000

SURFACE HAC


Probe Modulation Factor= 1.00
Maximum value of total field = 0.422 A/m;
H in A/m

Grid 1: 0.344	Grid 2: 0.387	Grid 3: 0.443
Grid 4: 0.383	Grid 5: 0.408	Grid 6: 0.477
Grid 7: 0.388	Grid 8:0.422	Grid 9: 0.496

System Performance Check (E, 1900MHz)

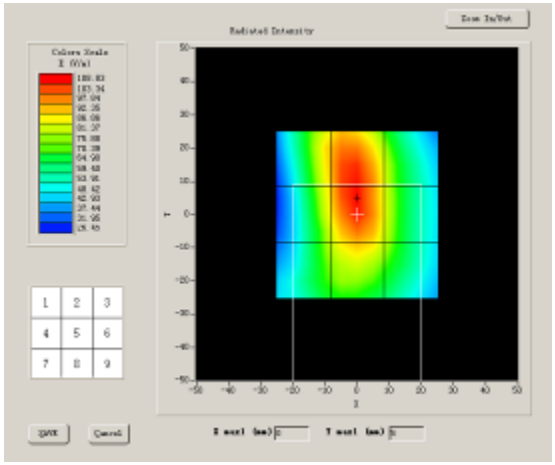
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	20.0, 80.0
Step (mm)	5
Band	CUSTOM (CW1900)
Channel	Middle
Signal	Duty Cycle: 1

B. HAC Measurement Results

Frequency (MHz): 1900.000000

SURFACE HAC


Maximum value of total field = 161.52V/m;
E in V/m

Grid 1: 145.51	Grid 2: 158.33	Grid 3: 136.11
Grid 4: 151.64	Grid 5: 161.52	Grid 6: 142.95
Grid 7: 141.52	Grid 8: 148.62	Grid 9: 126.77

System Performance Check (H, 1900MHz)

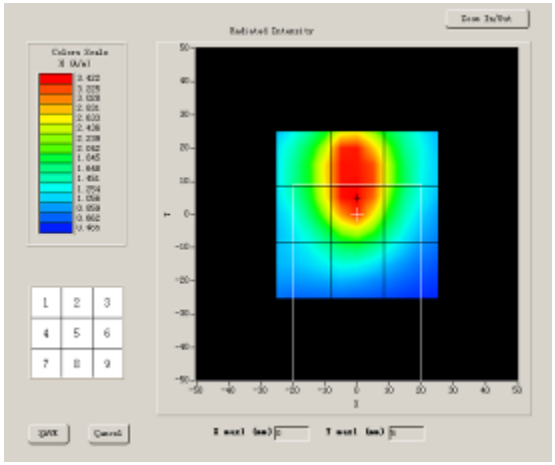
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	20.0, 80.0
Step (mm)	5
Band	CUSTOM (CW1900)
Channel	Middle
Signal	Duty Cycle: 1

B. HAC Measurement Results

Frequency (MHz): 1900.000000

SURFACE HAC


Probe Modulation Factor= 1.00
Maximum value of total field = 0.438 A/m;
H in A/m

Grid 1: 0.424	Grid 2: 0.434	Grid 3: 0.384
Grid 4: 0.437	Grid 5: 0.438	Grid 6: 0.415
Grid 7: 0.432	Grid 8:0.415	Grid 9: 0.361

System Performance Check (T-Coil)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Scanning Height (mm)	15.0
Band	GSM1800

B. Instrumentation.

Equipment description	Manufacturer /Model	Identification No.	Current calibration date	Next calibration date
Probe	SATIMO	SN_2411_TCP23	4/2013	3/2014
HAC Holder	SATIMO	SN_2212_TABH 31	Validated. No cal required.	Validated. No cal required.
Keithley2000	Keithley	1188656	04/2013	04/2014

C. HAC Measurement ResultsFrequency (MHz): 1747.400000

AXIAL ABM1	AXIAL ABM2
	NOT AVAILABLE

RADIAL H ABM1	RADIAL H ABM2
	NOT AVAILABLE

RADIAL V ABM1	RADIAL V ABM2
	NOT AVAILABLE

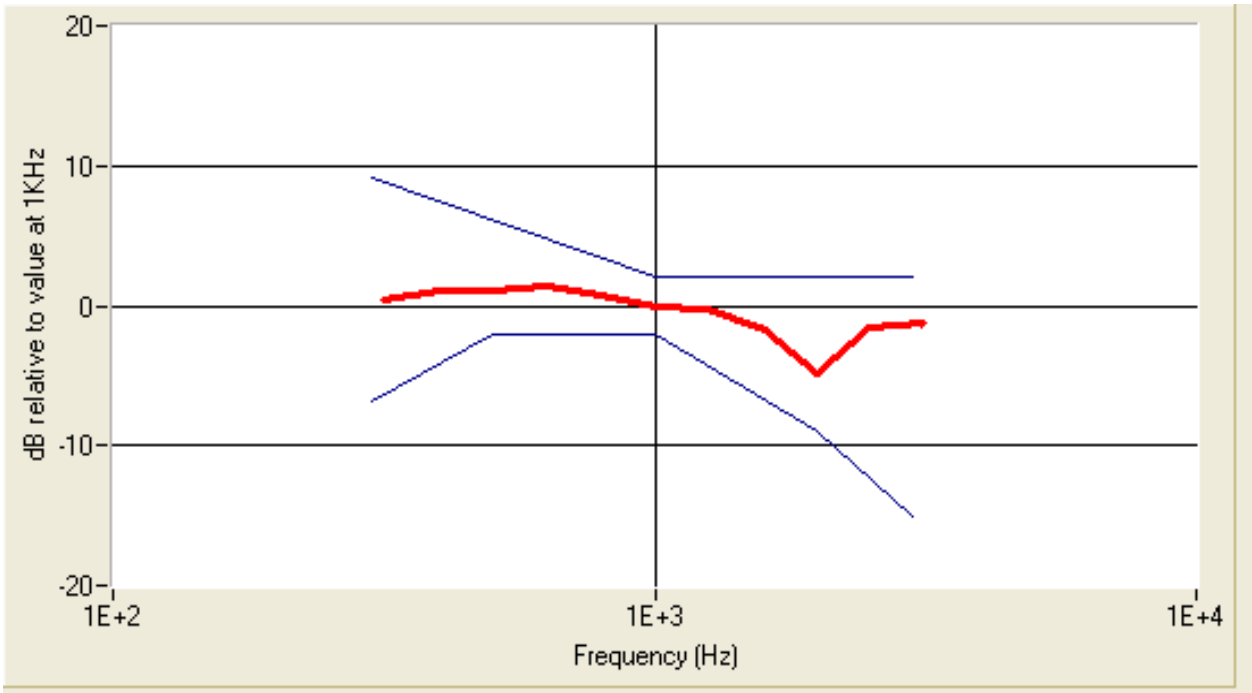
Raw Data Results

	Axial			Radial H						Radial V					
	Max	Max	Max	Left	Right	Left	Right	Left	Right	Up	Down	Up	Down	Up	Down
ABM1, dBA/m	NULL	-14.48	NULL	NULL	NULL	-21.28	-20.64	NULL	NULL	NULL	NULL	-21.12	-19.73	NULL	NULL
ABM2, dBA/m	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
Ambient noise, dBA/m	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00	-50.00
Freq Reponse Margin (dB)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
S+N/N(dB)	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
S+N/N per orientation (dB)	NULL			NULL						NULL					

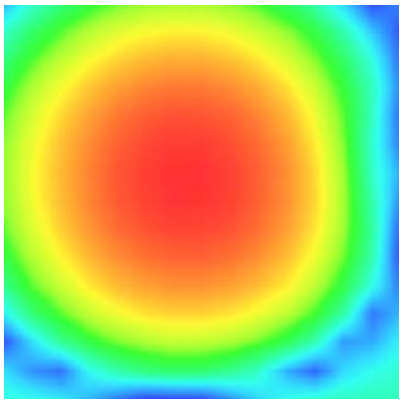
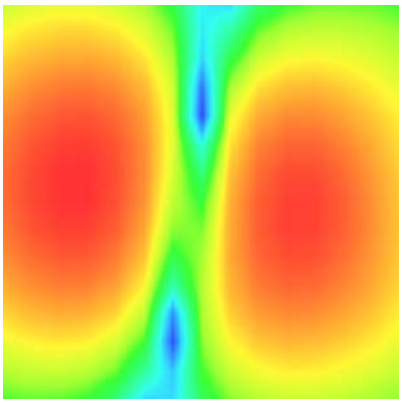
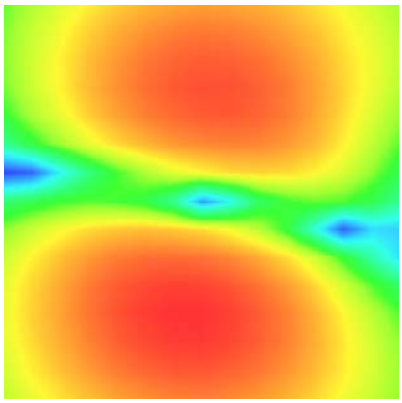
Test Summary

C63.19	Mode	Band	Test Description	Minimum Limit	Location	Measured	Category	Verdict
				dBA/m	-	dBA/m	-	Pass/Fail
7.3.1			Intensity, Axial	-18	Max	-	-	-
7.3.1			Intensity, RadialH	-18	Right side	-	-	-
				-18	Left side	-	-	-
7.3.1			Intensity, RadialV	-18	Upper side	-	-	-
				-18	Lower side	NULL	-	-
7.3.4			Signal to noise/noise, Axial	-	-	-	-	-
7.3.4			Signal to noise/noise, RadialH	-	Right side	-	-	-
				-	Left side	-	-	-
7.3.4			Signal to noise/noise, RadialV	-	Upper side	-	-	-
				-	Lower side	-	-	-
7.3.4			Frequency reponse, Axial	-	-	-	-	-

Magnetic field frequency response (field that exeeds -15 dB)



T.Coil Scan Overlay Magnetic Field Distributions

AXIAL	RADIAL H	RADIAL V
		

Test Results (GSM850, E, Low Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

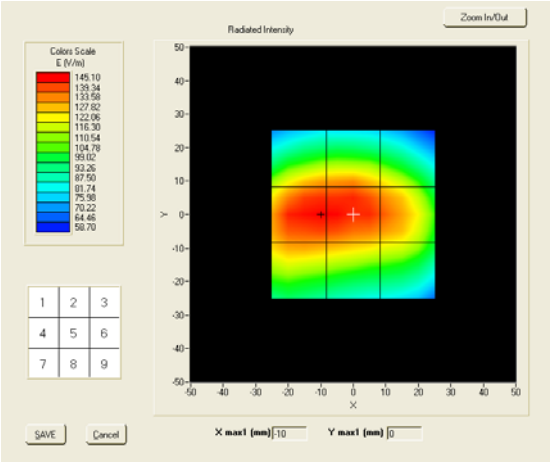
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	CUSTOM (CW835)
Channel	Low
Signal	TDMA

B. HAC Measurement Results

Lower Band (Channel 128):
Frequency (MHz): 824.200000

SURFACE HAC



Probe Modulation Factor = 2.890000
Maximum value of total field = 72.73 V/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

E in V/m

Grid 1: 51.58	Grid 2: 52.62	Grid 3: 51.83
Grid 4: 75.25	Grid 5: 72.73	Grid 6: 66.85
Grid 7: 64.06	Grid 8: 62.68	Grid 9: 54.37

Test Results (GSM850, H, Low Channel)

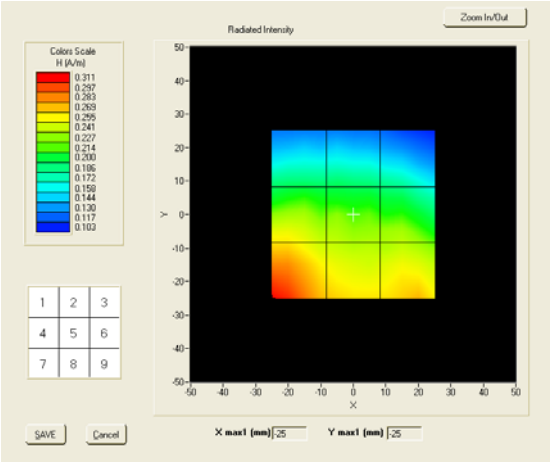
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	CUSTOM (CW835)
Channel	Low
Signal	TDMA

B. HAC Measurement Results

Lower Band (Channel 128):
Frequency (MHz): 824.200000

SURFACE HAC


Probe Modulation Factor = 2.880000
Maximum value of total field = 0.17 A/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

H in A/m

Grid 1: 0.12	Grid 2: 0.11	Grid 3: 0.10
Grid 4: 0.17	Grid 5: 0.15	Grid 6: 0.14
Grid 7: 0.21	Grid 8: 0.19	Grid 9: 0.20

Test Results (GSM850, E, Middle Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

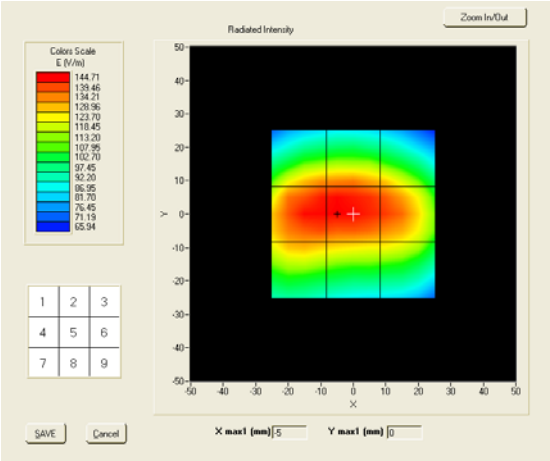
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM850
Channel	Middle
Signal	TDMA

B. HAC Measurement Results

Middle Band (Channel 189):
Frequency (MHz): 836.400000

SURFACE HAC



Probe Modulation Factor = 2.890000
Maximum value of total field = 89.44 V/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

E in V/m

Grid 1: 76.03	Grid 2: 77.61	Grid 3: 68.26
Grid 4: 88.94	Grid 5: 89.44	Grid 6: 84.79
Grid 7: 75.62	Grid 8: 74.20	Grid 9: 69.54

Test Results (GSM850, H, Middle Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

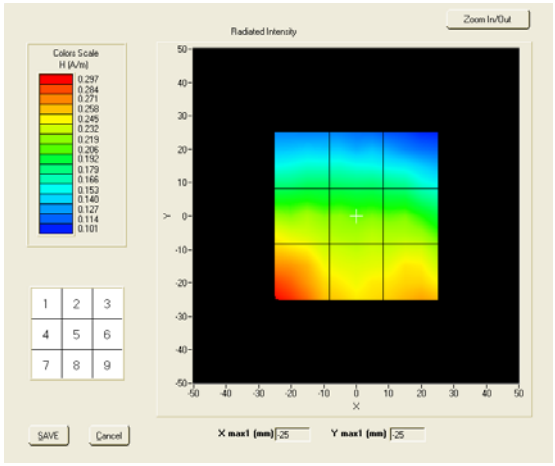
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM850
Channel	Middle
Signal	TDMA

B. HAC Measurement Results

Middle Band (Channel 189):
Frequency (MHz): 836.400000

SURFACE HAC



Probe Modulation Factor = 2.880000
Maximum value of total field = 0.17 A/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

H in A/m

Grid 1: 0.11	Grid 2: 0.11	Grid 3: 0.10
Grid 4: 0.17	Grid 5: 0.15	Grid 6: 0.14
Grid 7: 0.22	Grid 8: 0.18	Grid 9: 0.18

Test Results (GSM850, E, High Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

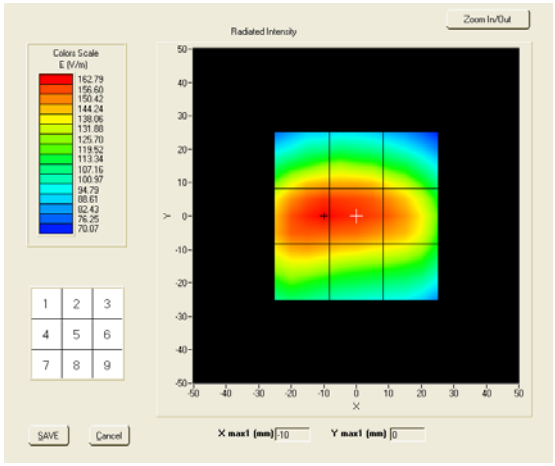
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM850
Channel	High
Signal	TDMA

B. HAC Measurement Results

Higher Band (Channel 251):
Frequency (MHz): 848.600000

SURFACE HAC



Probe Modulation Factor = 2.890000
Maximum value of total field = 91.42V/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

E in V/m

Grid 1: 72.17	Grid 2: 72.34	Grid 3: 64.05
Grid 4: 93.56	Grid 5: 91.42	Grid 6: 88.67
Grid 7: 77.98	Grid 8: 74.62	Grid 9: 68.53

Test Results (GSM850, H, High Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

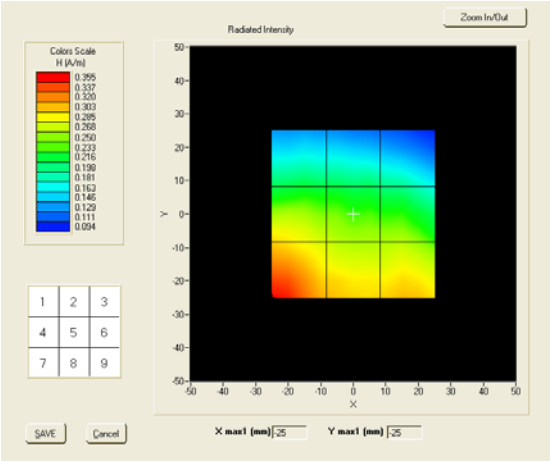
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM850
Channel	High
Signal	TDMA

B. HAC Measurement Results

Higher Band (Channel 251):
Frequency (MHz): 848.600000

SURFACE HAC



Probe Modulation Factor = 2.880000
Maximum value of total field = 0.18 A/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

H in A/m

Grid 1: 0.10	Grid 2: 0.09	Grid 3: 0.07
Grid 4: 0.18	Grid 5: 0.15	Grid 6: 0.15
Grid 7: 0.24	Grid 8: 0.19	Grid 9: 0.19

Test Results (GSM1900, E, Low Channel)

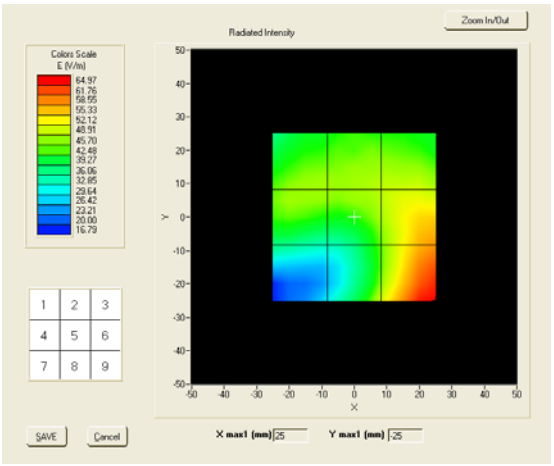
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM1900
Channel	Low
Signal	TDMA

B. HAC Measurement Results

Lower Band (Channel 512):
Frequency (MHz): 1850.200000

SURFACE HAC


Probe Modulation Factor = 2.870000
Maximum value of total field = 27.06V/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

E in V/m

Grid 1: 24.12	Grid 2: 26..35	Grid 3: 27.06
Grid 4: 22.21	Grid 5: 20.65	Grid 6: 35.13
Grid 7: 19.33	Grid 8: 27.06	Grid 9: 43.27

Test Results (GSM1900, H, Low Channel)

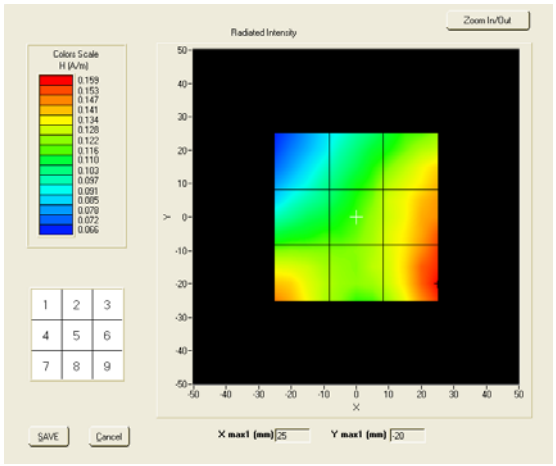
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM1900
Channel	Low
Signal	TDMA

B. HAC Measurement Results

Lower Band (Channel 512):
Frequency (MHz): 1850.200000

SURFACE HAC


Probe Modulation Factor = 2.890000
Maximum value of total field = 0.04A/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

H in A/m

Grid 1: 0.01	Grid 2: 0.02	Grid 3: 0.03
Grid 4: 0.02	Grid 5: 0.03	Grid 6: 0.04
Grid 7: 0.04	Grid 8: 0.03	Grid 9: 0.05

Test Results (GSM1900, E, Middle Channel)

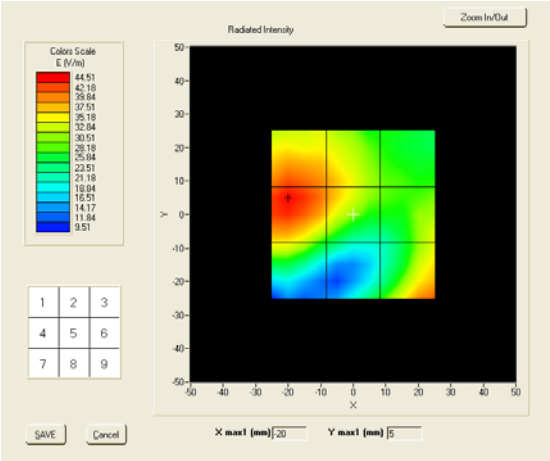
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM1900
Channel	Middle
Signal	TDMA

B. HAC Measurement Results

Middle Band (Channel 661):
Frequency (MHz): 1880.000000

SURFACE HAC


Probe Modulation Factor = 2.870000
Maximum value of total field = 49.59 V/m
Hearing Aid Near-Field Category: M3(AWF -5 dB)

E in V/m

Grid 1: 49.98	Grid 2: 46.23	Grid 3: 37.44
Grid 4: 52.60	Grid 5: 46.63	Grid 6: 41.90
Grid 7: 44.38	Grid 8: 36.11	Grid 9: 49.59

Test Results (GSM1900, H, Middle Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

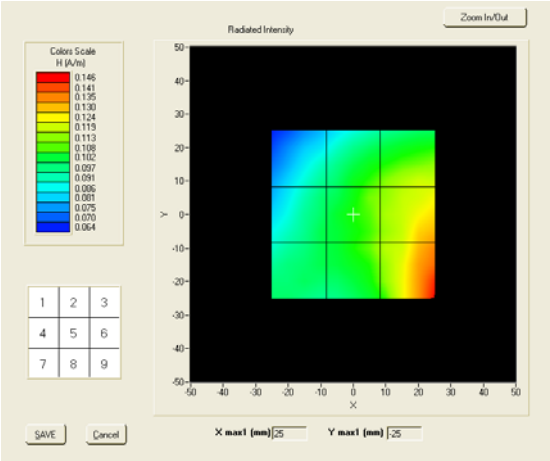
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM1900
Channel	Middle
Signal	TDMA

B. HAC Measurement Results

Middle Band (Channel 661):
Frequency (MHz): 1880.000000

SURFACE HAC



Probe Modulation Factor = 2.890000
Maximum value of total field = 0.05A/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

H in A/m

Grid 1: 0.03	Grid 2: 0.04	Grid 3: 0.05
Grid 4: 0.03	Grid 5: 0.04	Grid 6: 0.06
Grid 7: 0.03	Grid 8: 0.05	Grid 9: 0.08

Test Results (GSM1900, E, High Channel)

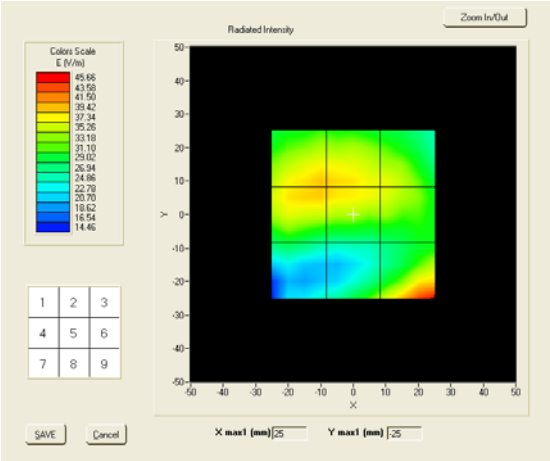
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM1900
Channel	High
Signal	TDMA

B. HAC Measurement Results

Higher Band (Channel 810):
Frequency (MHz): 1909.800000

SURFACE HAC


Probe Modulation Factor = 2.870000
Maximum value of total field = 38.46 V/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

E in V/m

Grid 1: 38.16	Grid 2: 37.92	Grid 3: 35.89
Grid 4: 38.46	Grid 5: 38.01	Grid 6: 35.78
Grid 7: 28.33	Grid 8: 34.07	Grid 9: 44.66

Test Results (GSM1900, H, High Channel)

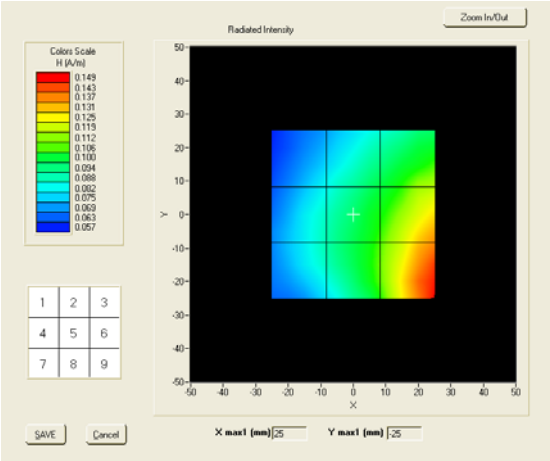
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	GSM1900
Channel	High
Signal	TDMA

B. HAC Measurement Results

Higher Band (Channel 810):
Frequency (MHz): 1909.800000

SURFACE HAC


Probe Modulation Factor = 2.890000
Maximum value of total field = 0.05 A/m
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

H in A/m

Grid 1: 0.03	Grid 2: 0.05	Grid 3: 0.05
Grid 4: 0.04	Grid 5: 0.05	Grid 6: 0.08
Grid 7: 0.04	Grid 8: 0.05	Grid 9: 0.09

Test Results (WCDMA850, E, Low Channel)

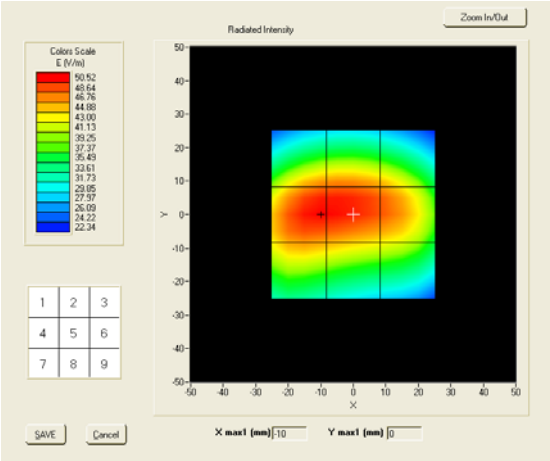
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA850
Channel	Low
Signal	CDMA

B. HAC Measurement Results

Lower Band (Channel 4132):
Frequency (MHz): 826.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 31.93 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 14.17	Grid 2: 14.45	Grid 3: 12.26
Grid 4: 18.65	Grid 5: 31.93	Grid 6: 16.20
Grid 7: 14.60	Grid 8: 45.66	Grid 9: 11.12

Test Results (WCDMA850, H, Low Channel)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

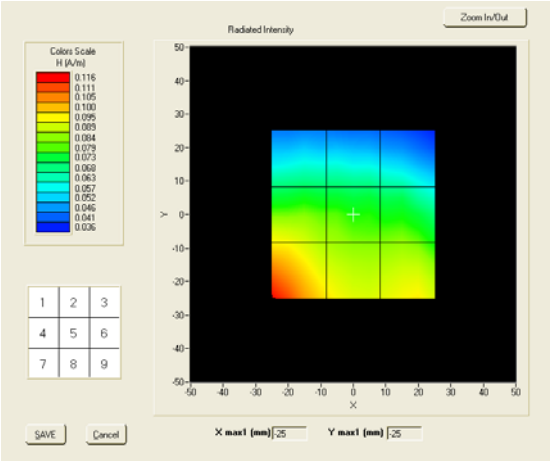
A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA850
Channel	Low
Signal	CDMA

B. HAC Measurement Results

Lower Band (Channel 4132):
Frequency (MHz): 826.400000

SURFACE HAC



Probe Modulation Factor = 0.990000
Maximum value of total field = 0.07 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.05	Grid 2: 0.05	Grid 3: 0.04
Grid 4: 0.07	Grid 5: 0.09	Grid 6: 0.06
Grid 7: 0.10	Grid 8: 0.08	Grid 9: 0.08

Test Results (WCDMA850, E, Middle Channel)

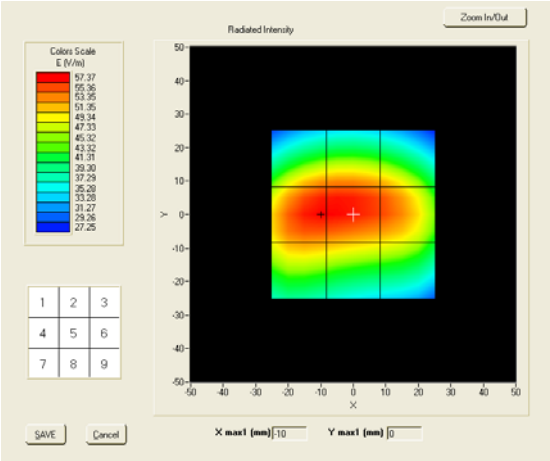
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA850
Channel	Middle
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 4182):
Frequency (MHz): 836.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 57.57 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1:24.86	Grid 2: 25.19	Grid 3: 23.06
Grid 4: 29.56	Grid 5: 29.18	Grid 6: 27.38
Grid 7: 24.95	Grid 8: 24.24	Grid 9: 21.94

Test Results (WCDMA850, H, Middle Channel)

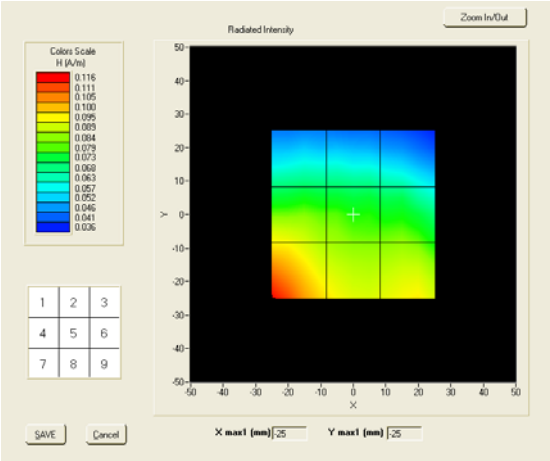
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA850
Channel	Middle
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 4182):
Frequency (MHz): 836.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.06 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.03	Grid 2: 0.03	Grid 3: 0.03
Grid 4: 0.06	Grid 5: 0.05	Grid 6: 0.06
Grid 7: 0.08	Grid 8: 0.06	Grid 9: 0.06

Test Results (WCDMA850, E, High Channel)

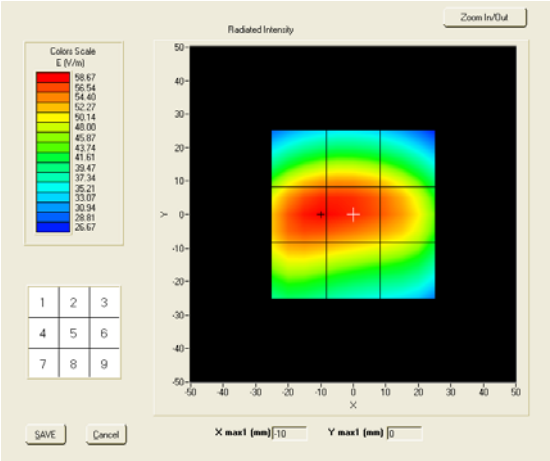
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA850
Channel	High
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 4233):
Frequency (MHz): 846.600000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 30.89V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 25.50	Grid 2: 25.74	Grid 3: 23.12
Grid 4: 30.75	Grid 5: 30.89	Grid 6: 27.79
Grid 7: 26.56	Grid 8: 23.61	Grid 9: 22.74

Test Results (WCDMA850, H, High Channel)

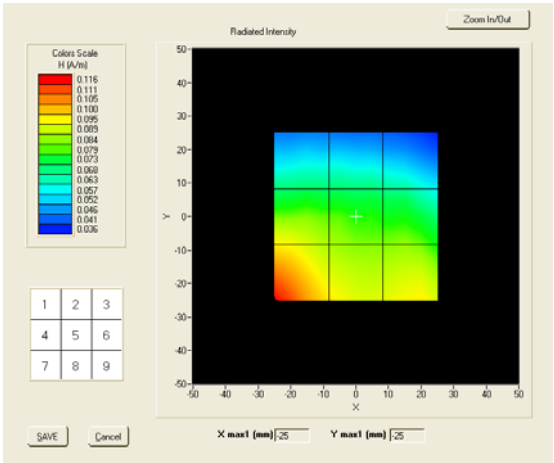
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA850
Channel	High
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 4233):
Frequency (MHz): 846.600000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.06 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.03	Grid 2: 0.02	Grid 3: 0.00
Grid 4: 0.06	Grid 5: 0.05	Grid 6: 0.04
Grid 7: 0.09	Grid 8: 0.06	Grid 9: 0.06

Test Results (WCDMA1700, E, Low Channel)

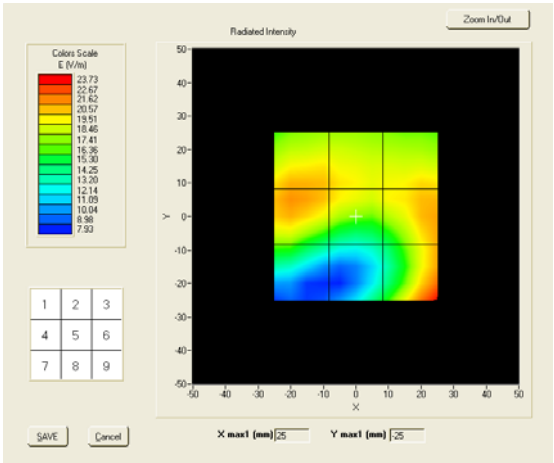
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1700
Channel	Low
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 1312):
Frequency (MHz): 1712.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 20.84 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 20.71	Grid 2: 18.17	Grid 3: 18.43
Grid 4: 20.84	Grid 5: 18.02	Grid 6: 19.18
Grid 7: 15.50	Grid 8: 15.68	Grid 9: 21.73

Test Results (WCDMA1700, H, Low Channel)

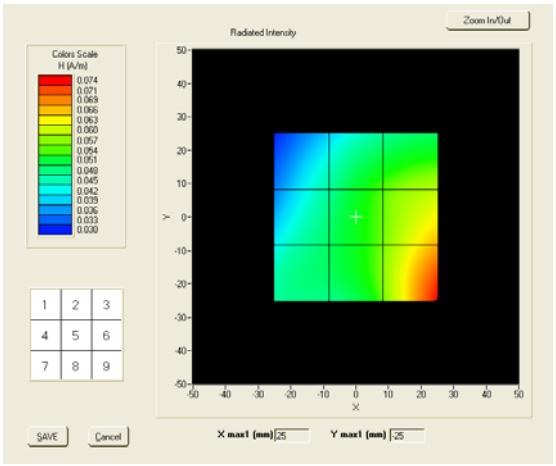
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1700
Channel	Low
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 1312):
Frequency (MHz): 1712.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.08 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.06	Grid 2: 0.07	Grid 3: 0.07
Grid 4: 0.07	Grid 5: 0.08	Grid 6: 0.09
Grid 7: 0.07	Grid 8: 0.08	Grid 9: 0.09

Test Results (WCDMA1700, E, Middle Channel)

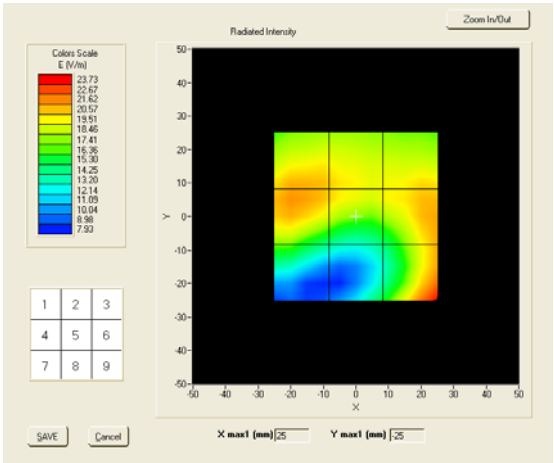
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1700
Channel	Middle
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 1412):
Frequency (MHz): 1732.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 29.38 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 28.83	Grid 2: 28.11	Grid 3: 28.03
Grid 4: 29.38	Grid 5: 28.15	Grid 6: 29.11
Grid 7: 25.50	Grid 8: 23.88	Grid 9: 31.73

Test Results (WCDMA1700, H, Middle Channel)

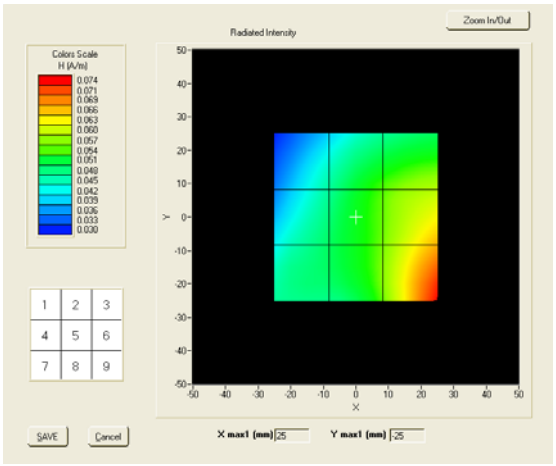
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1700
Channel	Middle
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 1412):
Frequency (MHz): 1732.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.08 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.06	Grid 2: 0.07	Grid 3: 0.08
Grid 4: 0.07	Grid 5: 0.08	Grid 6: 0.09
Grid 7: 0.07	Grid 8: 0.08	Grid 9: 0.09

Test Results (WCDMA1700, E, High Channel)

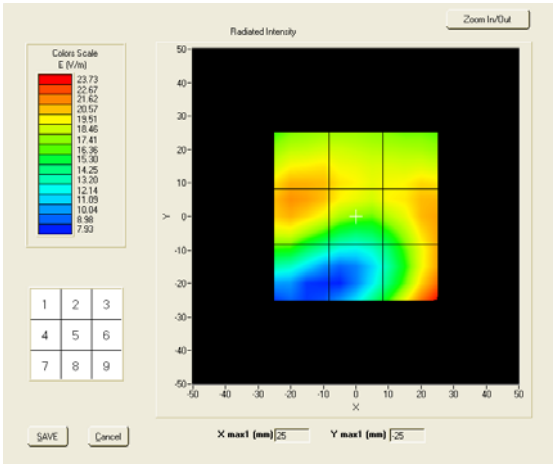
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1700
Channel	High
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 1513):
Frequency (MHz): 1752.600000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 23.87 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 23.18	Grid 2: 23.01	Grid 3: 23.13
Grid 4: 23.87	Grid 5: 22.12	Grid 6: 24.52
Grid 7: 17.95	Grid 8: 18.23	Grid 9: 25.67

Test Results (WCDMA1700, H, High Channel)

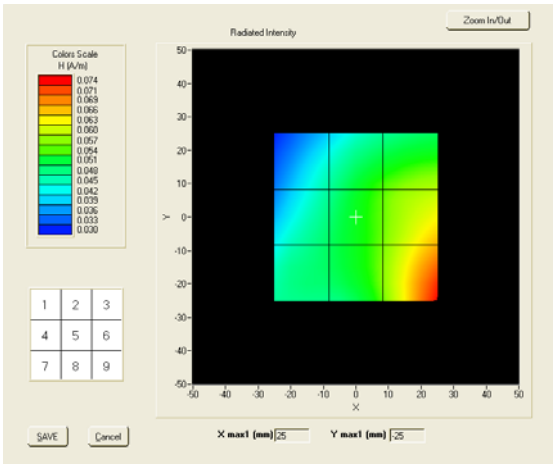
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1700
Channel	High
Signal	CDMA

B. HAC Measurement Results

Middle Band (Channel 1513):
Frequency (MHz): 1752.600000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.07 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.06	Grid 2: 0.07	Grid 3: 0.07
Grid 4: 0.06	Grid 5: 0.07	Grid 6: 0.08
Grid 7: 0.07	Grid 8: 0.07	Grid 9: 0.09

Test Results (WCDMA1900, E, High Channel)

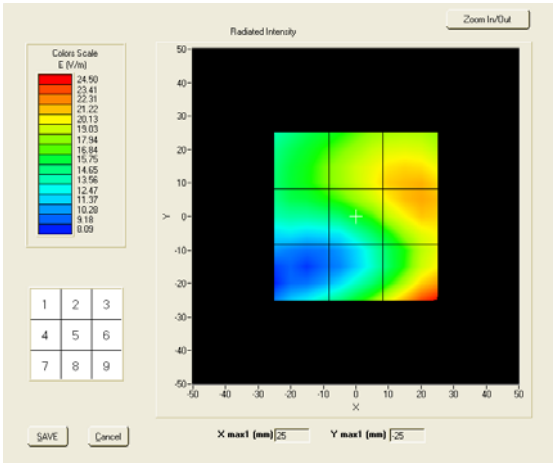
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1900
Channel	Low
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 9262):
Frequency (MHz): 1852.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 25.96 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 24.89	Grid 2: 25.96	Grid 3: 27.64
Grid 4: 23.12	Grid 5: 25.12	Grid 6: 28.68
Grid 7: 21.44	Grid 8: 24.26	Grid 9: 30.32

Test Results (WCDMA1900, H, Low Channel)

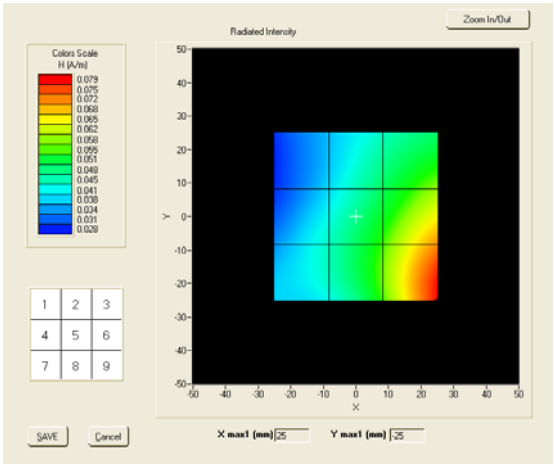
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1900
Channel	Low
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 9262):
Frequency (MHz): 1852.400000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.06 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.04	Grid 2: 0.06	Grid 3: 0.06
Grid 4: 0.05	Grid 5: 0.06	Grid 6: 0.07
Grid 7: 0.06	Grid 8: 0.06	Grid 9: 0.08

Test Results (WCDMA1900, E, High Channel)

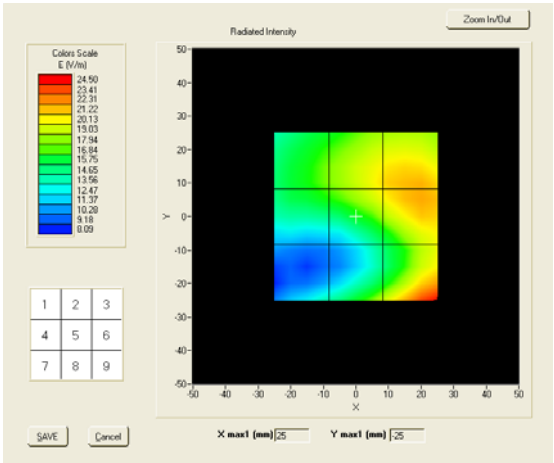
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1900
Channel	High
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 9400):
Frequency (MHz): 1880.000000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 26.43 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 23.98	Grid 2: 26.43	Grid 3: 28.14
Grid 4: 23.03	Grid 5: 25.92	Grid 6: 29.23
Grid 7: 21.37	Grid 8: 25.34	Grid 9: 31.42

Test Results (WCDMA1900, H, Middle Channel)

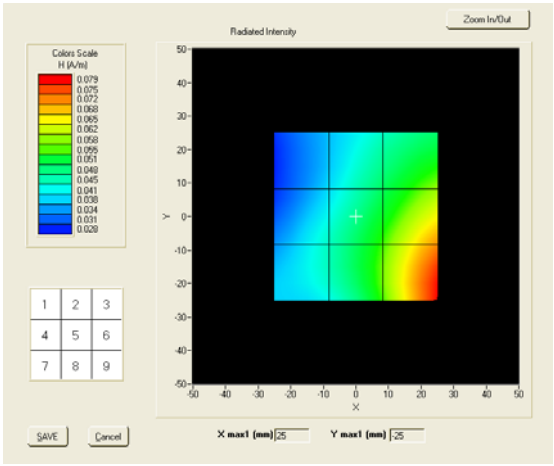
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1900
Channel	Middle
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 9400):
Frequency (MHz): 1880.000000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.06 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.04	Grid 2: 0.05	Grid 3: 0.06
Grid 4: 0.04	Grid 5: 0.06	Grid 6: 0.07
Grid 7: 0.05	Grid 8: 0.06	Grid 9: 0.08

Test Results (WCDMA1900, E, High Channel)

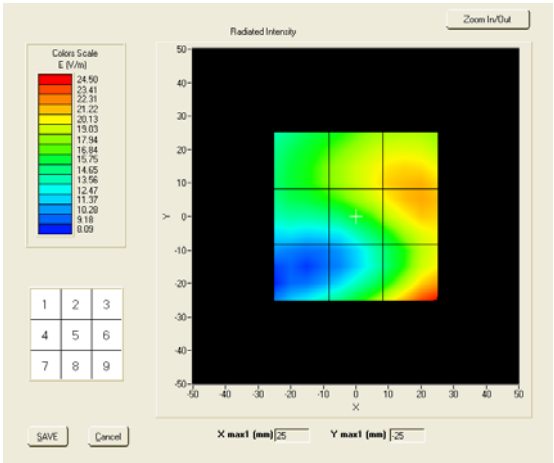
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1900
Channel	High
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 9538):
Frequency (MHz): 1907.600000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 25.68 V/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

E in V/m

Grid 1: 22.24	Grid 2: 25.68	Grid 3: 27.14
Grid 4: 22.07	Grid 5: 24.71	Grid 6: 28.06
Grid 7: 20.18	Grid 8: 24.42	Grid 9: 29.24

Test Results (WCDMA1900, H, High Channel)

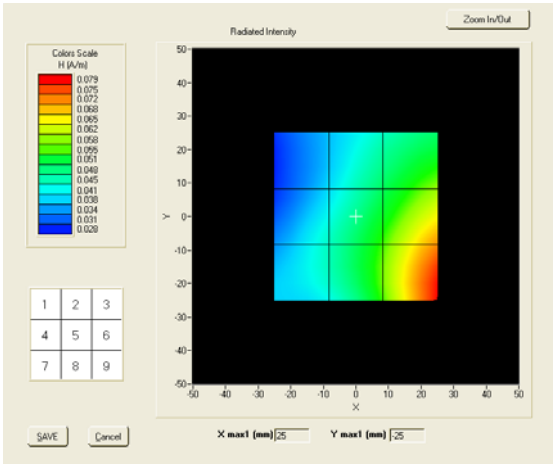
Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Band	WCDMA1900
Channel	High
Signal	CDMA

B. HAC Measurement Results

Higher Band (Channel 9538):
Frequency (MHz): 1907.600000

SURFACE HAC


Probe Modulation Factor = 0.990000
Maximum value of total field = 0.07 A/m
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

H in A/m

Grid 1: 0.05	Grid 2: 0.06	Grid 3: 0.07
Grid 4: 0.05	Grid 5: 0.07	Grid 6: 0.08
Grid 7: 0.06	Grid 8: 0.07	Grid 9: 0.09

Test Results (GSM850, T-Coil)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Scanning Height (mm)	15.0
Band	GSM850

B. HAC Measurement ResultsFrequency (MHz): 836.400000

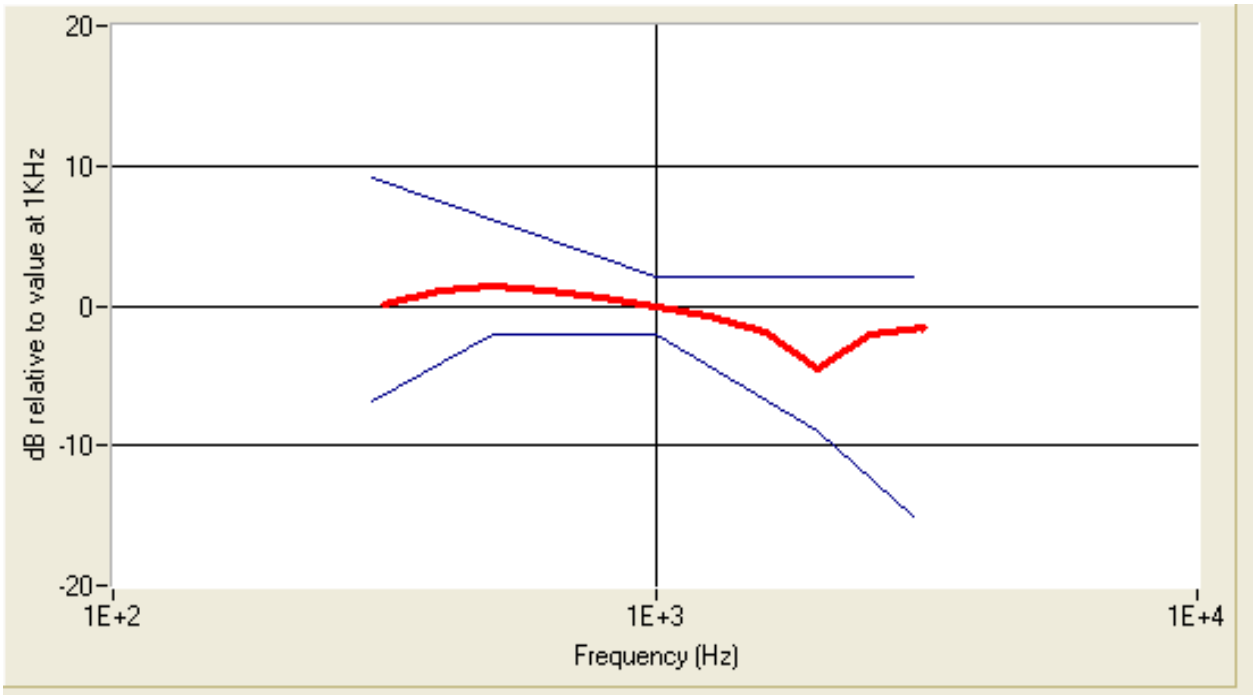
Raw Data Results

	Axial			Radial H						Radial V					
	128	189	250	128		189		250		128		189		250	
	Max	Max	Max	Left	Right	Left	Right	Left	Right	Up	Down	Up	Down	Up	Down
ABM1, dBA/m	NULL	-1.29	NULL	NULL	NULL	-9.41	-8.91	NULL	NULL	NULL	NULL	-10.06	-9.29	NULL	NULL
ABM2, dBA/m	NULL	-35.28	NULL	NULL	NULL	-39.00	-35.17	NULL	NULL	NULL	NULL	-35.58	-31.79	NULL	NULL
Ambient noise, dBA/m	-59.53	-59.53	-59.53	-59.99	-59.99	-59.99	-59.99	-59.99	-59.99	-56.73	-56.73	-56.73	-56.73	-56.73	-56.73
Freq Reponse Margin (dB)	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
S+N/N(dB)	NULL	34.10	NULL	NULL	NULL	29.64	26.47	NULL	NULL	NULL	NULL	25.76	22.72	NULL	NULL
S+N/N per orientation (dB)	34.10			26.47						22.72					

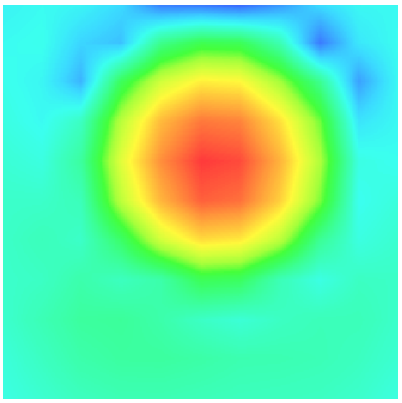
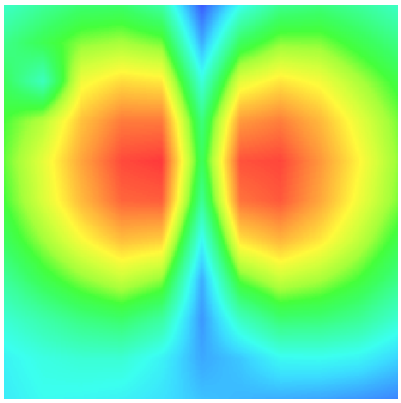
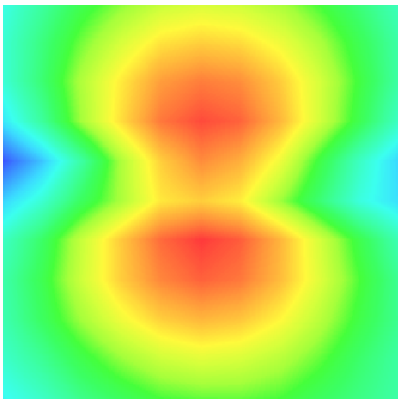
Test Summary

C63.19	Mode	Band	Test Description	Minimum Limit	Location	Measured	Category	Verdict
				dBA/m	-	dBA/m	-	Pass/Fail
7.3.1	GSM	GSM850	Intensity, Axial	-18	Max	-1.29	-	PASS
7.3.1			Intensity, RadialH	-18	Right side	-9.41	-	PASS
				-18	Left side	-8.91	-	PASS
7.3.1			Intensity, RadialV	-18	Upper side	-10.06	-	PASS
				-18	Lower side	-9.29	-	PASS
7.3.4			Signal to noise/noise, Axial	20	Max	34.10	T4	PASS
7.3.4			Signal to noise/noise, RadialH	20	Right side	29.64	T3	PASS
				20	Left side	26.47	T3	PASS
7.3.4			Signal to noise/noise, RadialV	20	Upper side	25.76	T3	PASS
				20	Lower side	22.72	T3	PASS
7.3.4			Frequency reponse, Axial	0	-	2.00	-	PASS

Magnetic field frequency response (field that exeeds -15 dB)



T.Coil Scan Overlay Magnetic Field Distributions

AXIAL	RADIAL H	RADIAL V
		

Test Results (GSM1900, T-Coil)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Scanning Height (mm)	15.0
Band	GSM1900

B. HAC Measurement ResultsFrequency (MHz): 1880.000000

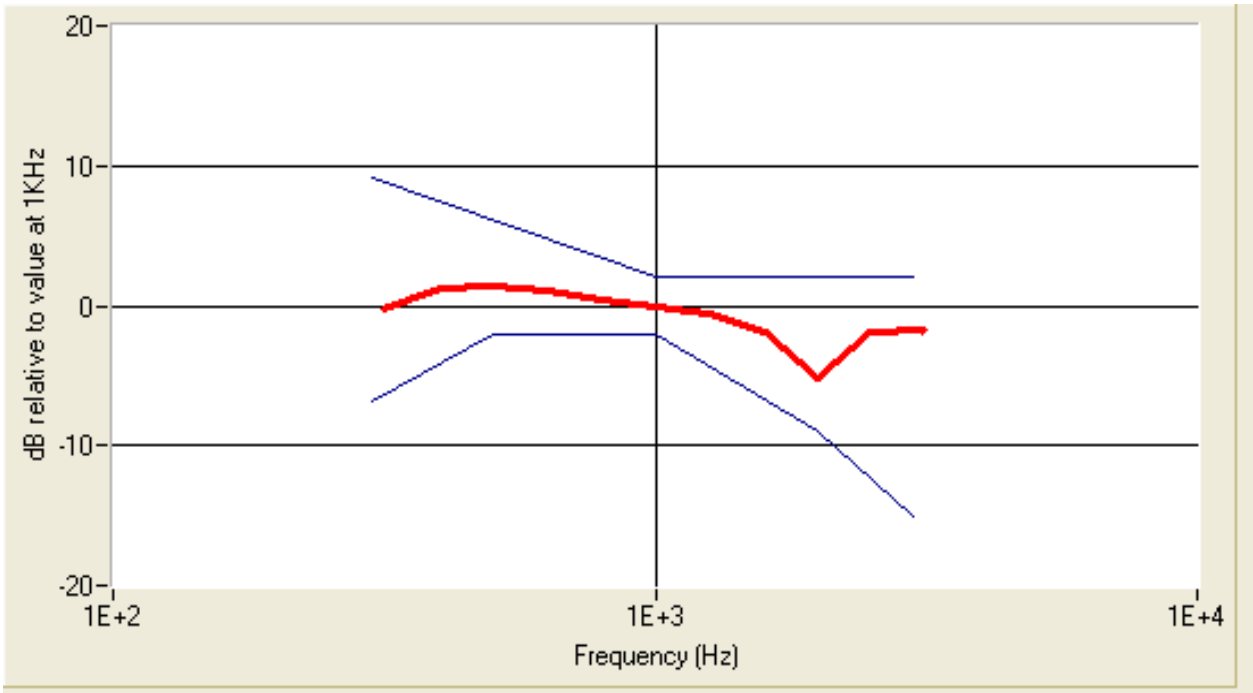
Raw Data Results

	Axial			Radial H						Radial V					
	513	661	809	513		661		809		513		661		809	
	Max	Max	Max	Left	Right	Left	Right	Left	Right	Up	Down	Up	Down	Up	Down
ABM1, dBA/m	NULL	-1.30	NULL	NULL	NULL	-9.32	-8.84	NULL	NULL	NULL	NULL	-9.88	-9.04	NULL	NULL
ABM2, dBA/m	NULL	-35.72	NULL	NULL	NULL	-40.64	-37.07	NULL	NULL	NULL	NULL	-37.32	-33.35	NULL	NULL
Ambient noise, dBA/m	-59.53	-59.53	-59.53	-59.99	-59.99	-59.99	-59.99	-59.99	-59.99	-56.73	-56.73	-56.73	-56.73	-56.73	-56.73
Freq Reponse Margin (dB)	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
S+N/N(dB)	NULL	34.20	NULL	NULL	NULL	31.45	28.35	NULL	NULL	NULL	NULL	27.64	24.31	NULL	NULL
S+N/N per orientation (dB)	34.20			28.35						24.31					

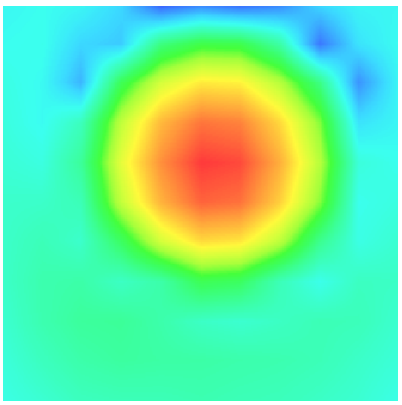
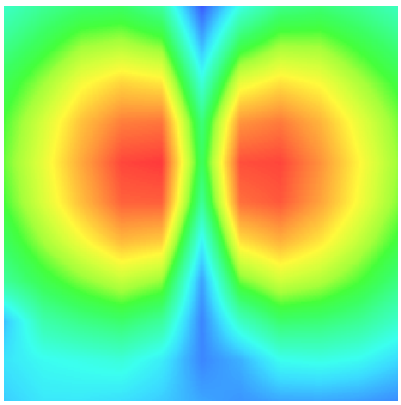
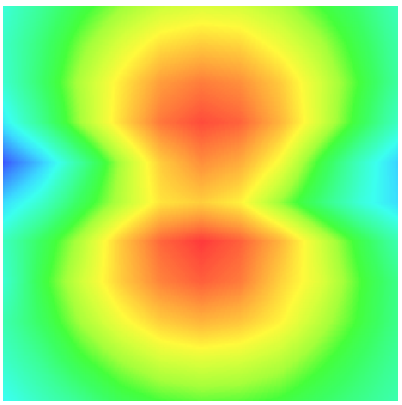
Test Summary

C63.19	Mode	Band	Test Description	Minimum Limit	Location	Measured	Category	Verdict
				dBA/m	-	dBA/m	-	Pass/Fail
7.3.1	GSM	GSM1900	Intensity, Axial	-18	Max	-1.30	-	PASS
7.3.1			Intensity, RadialH	-18	Right side	-9.32	-	PASS
				-18	Left side	-8.84	-	PASS
7.3.1			Intensity, RadialV	-18	Upper side	-9.88	-	PASS
				-18	Lower side	-9.04	-	PASS
7.3.4			Signal to noise/noise, Axial	20	Max	34.20	T4	PASS
7.3.4			Signal to noise/noise, RadialH	20	Right side	31.45	T4	PASS
				20	Left side	28.35	T3	PASS
7.3.4			Signal to noise/noise, RadialV	20	Upper side	27.64	T3	PASS
				20	Lower side	24.31	T3	PASS
7.3.4			Frequency reponse, Axial	0	-	2.00	-	PASS

Magnetic field frequency response (field that exeeds -15 dB)



T.Coil Scan Overlay Magnetic Field Distributions

AXIAL	RADIAL H	RADIAL V
		

Test Results (WCDMA850, T-Coil)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Scanning Height (mm)	15.0
Band	WCDMA850

B. HAC Measurement ResultsFrequency (MHz): 836.000000

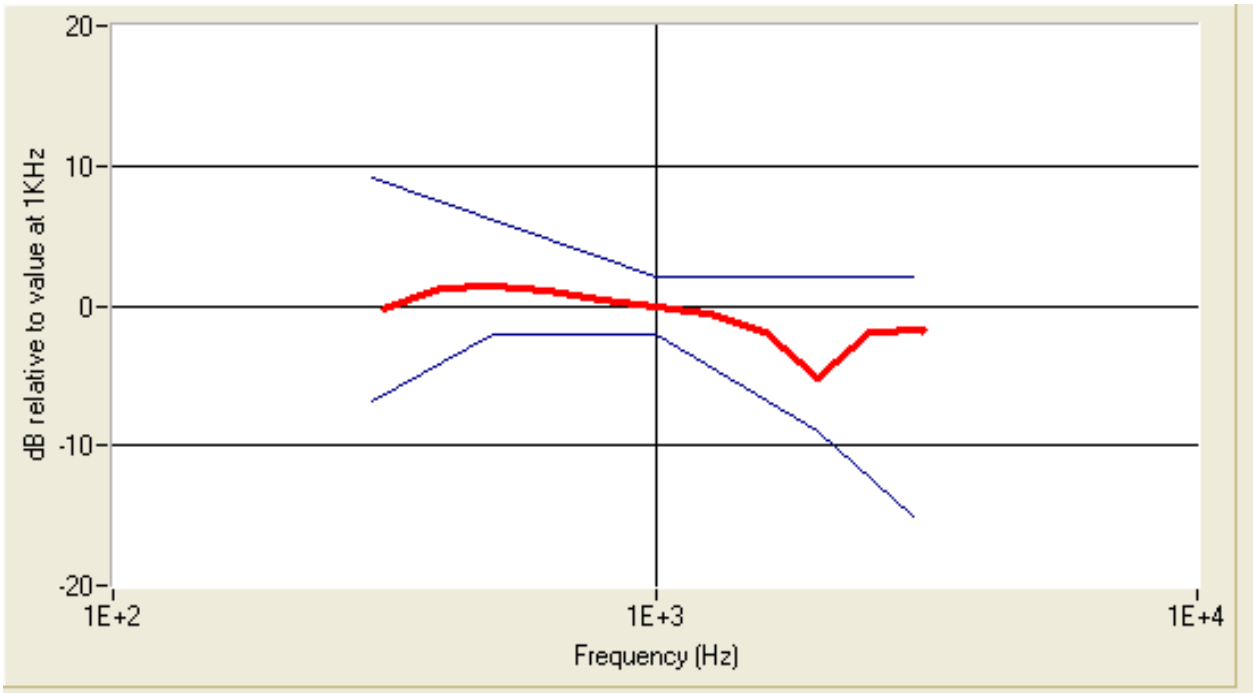
Raw Data Results

	Axial			Radial H						Radial V					
	4132	4182	4233	4132		4182		4233		4132		4182		4233	
	Max	Max	Max	Left	Right	Left	Right	Left	Right	Up	Down	Up	Down	Up	Down
ABM1, dBA/m	NULL	-1.13	NULL	NULL	NULL	-9.17	-8.81	NULL	NULL	NULL	NULL	-9.67	-9.12	NULL	NULL
ABM2, dBA/m	NULL	-40.02	NULL	NULL	NULL	-46.75	-45.74	NULL	NULL	NULL	NULL	-48.49	-46.09	NULL	NULL
Ambient noise, dBA/m	-59.53	-59.53	-59.53	-59.99	-59.99	-59.99	-59.99	-59.99	-59.99	-56.73	-56.73	-56.73	-56.73	-56.73	-56.73
Freq Reponse Margin (dB)	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
S+N/N(dB)	NULL	38.82	NULL	NULL	NULL	37.72	36.91	NULL	NULL	NULL	NULL	38.74	36.87	NULL	NULL
S+N/N per orientation (dB)	38.82			36.91						36.87					

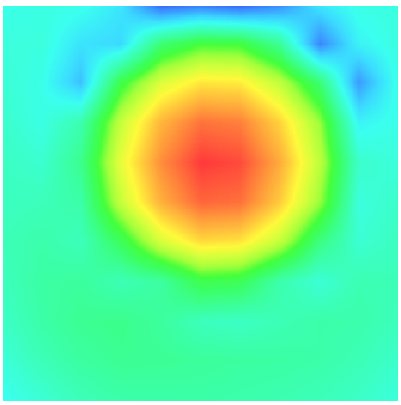
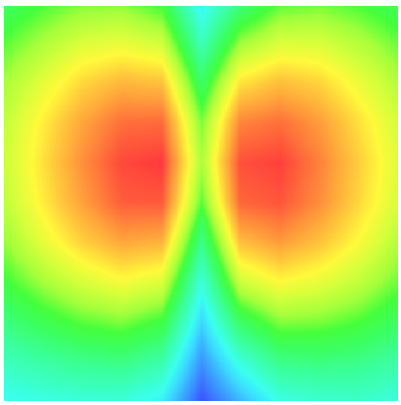
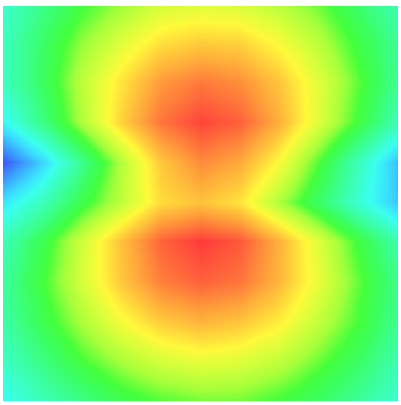
Test Summary

C63.19	Mode	Band	Test Description	Minimum Limit	Location	Measured	Category	Verdict
				dBA/m	-	dBA/m	-	Pass/Fail
7.3.1	WCDMA	WCDMA 850	Intensity, Axial	-18	Max	-1.13	-	PASS
7.3.1			Intensity, RadialH	-18	Right side	-9.17	-	PASS
				-18	Left side	-8.81	-	PASS
7.3.1			Intensity, RadialV	-18	Upper side	-9.67	-	PASS
				-18	Lower side	-9.12	-	PASS
7.3.4			Signal to noise/noise, Axial	20	Max	38.82	T4	PASS
7.3.4			Signal to noise/noise, RadialH	20	Right side	37.72	T4	PASS
				20	Left side	36.91	T4	PASS
7.3.4			Signal to noise/noise, RadialV	20	Upper side	38.74	T4	PASS
				20	Lower side	36.87	T4	PASS
7.3.4			Frequency reponse, Axial	0	-	2.00	-	PASS

Magnetic field frequency response (field that exeeds -15 dB)



T.Coil Scan Overlay Magnetic Field Distributions

AXIAL	RADIAL H	RADIAL V
		

Test Results (WCDMA1700, T-Coil)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Scanning Height (mm)	15.0
Band	WCDMA1700

B. HAC Measurement ResultsFrequency (MHz): 1732.400000

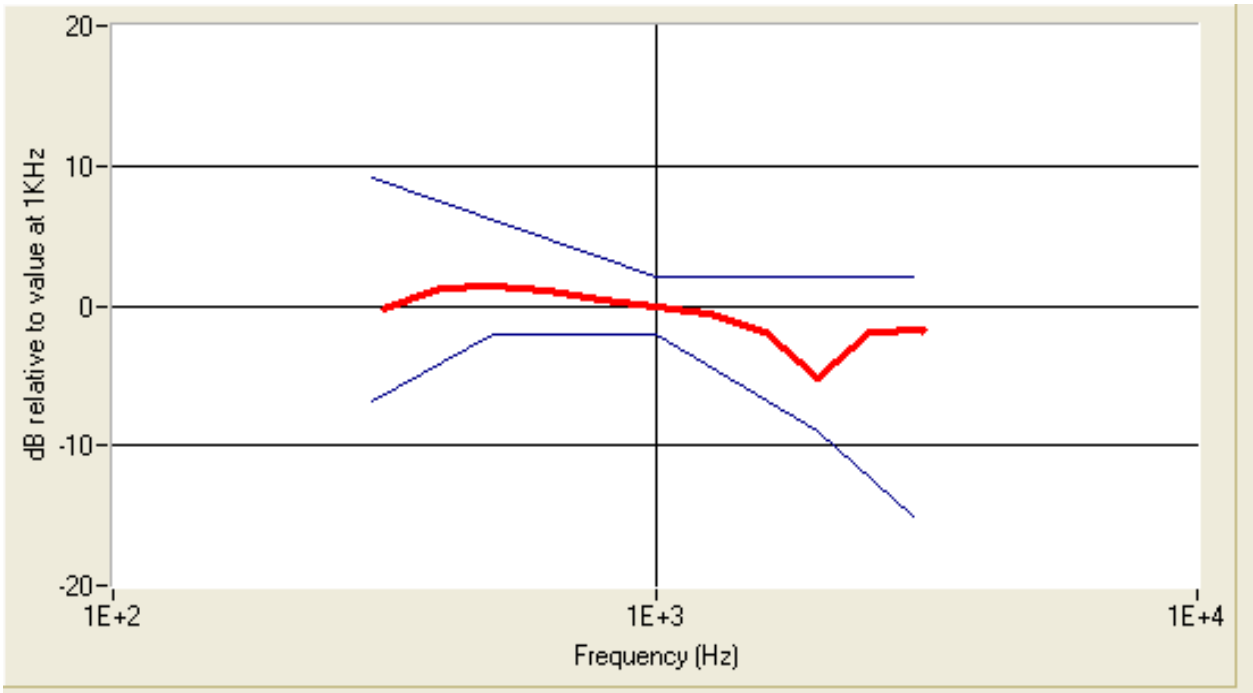
Raw Data Results

	Axial			Radial H						Radial V					
	9262	9400	9538	9262		9400		9538		9262		9400		9538	
	Max	Max	Max	Left	Right	Left	Right	Left	Right	Up	Down	Up	Down	Up	Down
ABM1, dBA/m	NULL	-1.43	NULL	NULL	NULL	-9.32	-8.82	NULL	NULL	NULL	NULL	-9.91	-9.28	NULL	NULL
ABM2, dBA/m	NULL	-40.08	NULL	NULL	NULL	-47.66	-45.83	NULL	NULL	NULL	NULL	-48.62	-43.84	NULL	NULL
Ambient noise, dBA/m	-59.53	-59.53	-59.53	-59.99	-59.99	-59.99	-59.99	-59.99	-59.99	-56.73	-56.73	-56.73	-56.73	-56.73	-56.73
Freq Reponse Margin (dB)	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
S+N/N(dB)	NULL	32.25	NULL	NULL	NULL	31.59	35.60	NULL	NULL	NULL	NULL	33.34	32.51	NULL	NULL
S+N/N per orientation (dB)	32.25			31.59						32.51					

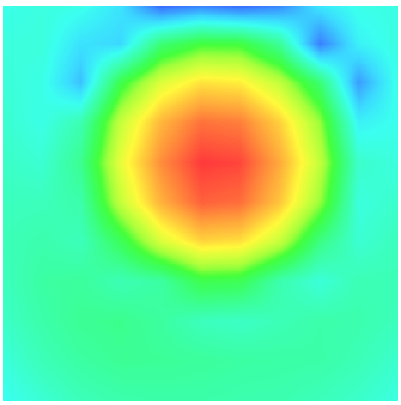
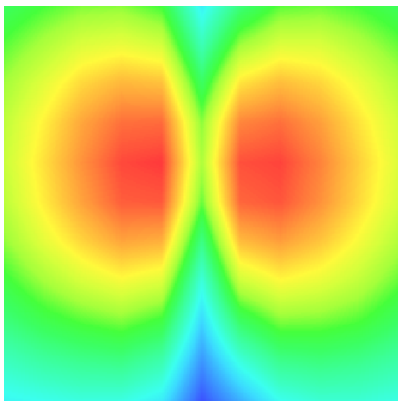
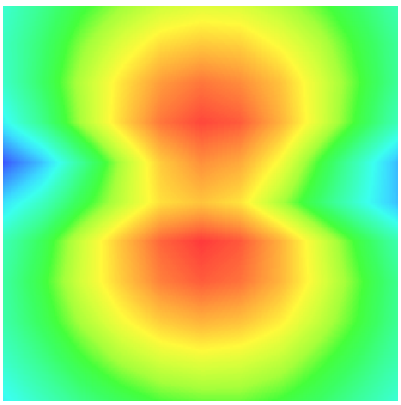
Test Summary

C63.19	Mode	Band	Test Description	Minimum Limit	Location	Measured	Category	Verdict
				dBA/m	-	dBA/m	-	Pass/Fail
7.3.1	WCDMA	WCDMA 1700	Intensity, Axial	-18	Max	-1.44	-	PASS
7.3.1			Intensity, RadialH	-18	Right side	-9.43	-	PASS
				-18	Left side	-8.98	-	PASS
7.3.1			Intensity, RadialV	-18	Upper side	-9.39	-	PASS
				-18	Lower side	-9.38	-	PASS
7.3.4			Signal to noise/noise, Axial	20	Max	32.25	T4	PASS
7.3.4			Signal to noise/noise, RadialH	20	Right side	31.59	T4	PASS
				20	Left side	35.60	T4	PASS
7.3.4			Signal to noise/noise, RadialV	20	Upper side	33.34	T4	PASS
				20	Lower side	32.51	T4	PASS
7.3.4			Frequency reponse, Axial	0	-	2.00	-	PASS

Magnetic field frequency response (field that exeeds -15 dB)



T.Coil Scan Overlay Magnetic Field Distributions

AXIAL	RADIAL H	RADIAL V
		

Test Results (WCDMA1900, T-Coil)

Date of measurement: 4/9/2013
Mobile Phone IMEI number: --

A. Experimental conditions.

Grid size (mm x mm)	50.0, 50.0
Step (mm)	5
Scanning Height (mm)	15.0
Band	WCDMA1900

B. HAC Measurement ResultsFrequency (MHz): 1907.000000

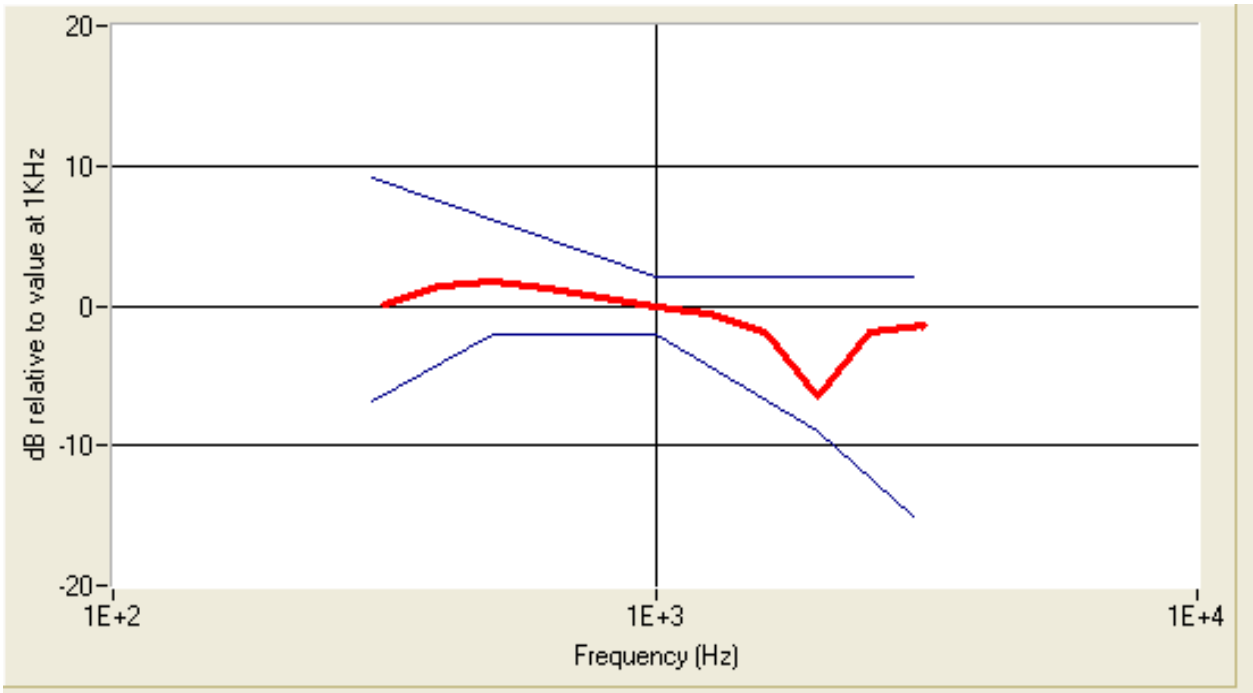
Raw Data Results

	Axial			Radial H						Radial V					
	9262	9400	9538	9262		9400		9538		9262		9400		9538	
	Max	Max	Max	Left	Right	Left	Right	Left	Right	Up	Down	Up	Down	Up	Down
ABM1, dBA/m	NULL	-1.43	NULL	NULL	NULL	-9.32	-8.82	NULL	NULL	NULL	NULL	-9.91	-9.28	NULL	NULL
ABM2, dBA/m	NULL	-39.02	NULL	NULL	NULL	-47.66	-45.83	NULL	NULL	NULL	NULL	-48.62	-43.84	NULL	NULL
Ambient noise, dBA/m	-59.53	-59.53	-59.53	-59.99	-59.99	-59.99	-59.99	-59.99	-59.99	-56.73	-56.73	-56.73	-56.73	-56.73	-56.73
Freq Reponse Margin (dB)	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
S+N/N(dB)	NULL	37.80	NULL	NULL	NULL	38.38	37.00	NULL	NULL	NULL	NULL	38.74	34.59	NULL	NULL
S+N/N per orientation (dB)	37.80			37.00						34.59					

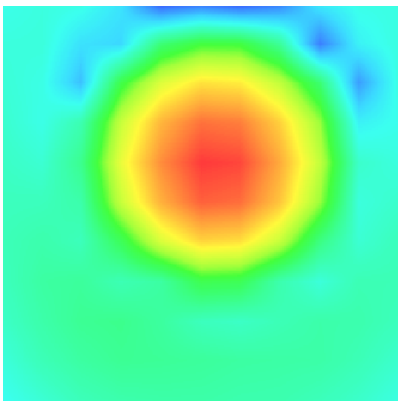
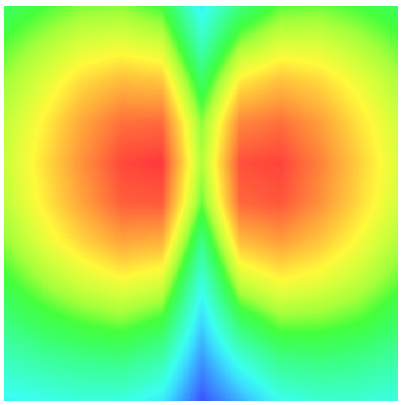
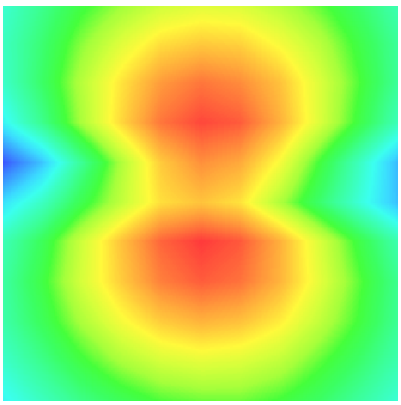
Test Summary

C63.19	Mode	Band	Test Description	Minimum Limit	Location	Measured	Category	Verdict
				dBA/m	-	dBA/m	-	Pass/Fail
7.3.1	WCDMA	WCDMA 1900	Intensity, Axial	-18	Max	-1.43	-	PASS
7.3.1			Intensity, RadialH	-18	Right side	-9.32	-	PASS
				-18	Left side	-8.82	-	PASS
7.3.1			Intensity, RadialV	-18	Upper side	-9.91	-	PASS
				-18	Lower side	-9.28	-	PASS
7.3.4			Signal to noise/noise, Axial	20	Max	37.80	T4	PASS
7.3.4			Signal to noise/noise, RadialH	20	Right side	38.38	T4	PASS
				20	Left side	37.00	T4	PASS
7.3.4			Signal to noise/noise, RadialV	20	Upper side	38.74	T4	PASS
				20	Lower side	34.59	T4	PASS
7.3.4			Frequency reponse, Axial	0	-	2.00	-	PASS

Magnetic field frequency response (field that exeeds -15 dB)



T.Coil Scan Overlay Magnetic Field Distributions

AXIAL	RADIAL H	RADIAL V
		

ANNEX D

of

CCIC-SET

CONFORMANCE TEST REPORT FOR

HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

SET2013-05226

Coolpad Flo

Type Name: Coolpad 7560T

Hardware Version： P2

Software Version： 4.1.009.P2.130819.7560T

Calibration Certificate of Probe and Dipoles

This Annex consists of 57 pages

Date of Report：2013-09-04

E-Field Probe Calibration Ceriticate

COMOHAC E-Field Probe Calibration Report

Ref : ACR.96.10.13.SATU.A

CCIC SOUTHERN ELECTRONIC PRODUCT TESTING (SHENZHEN) CO.,LTD

ELECTRONIC TESTING BUILDING,SHAHE ROAD, XILI TOWN SHENZHEN,P.R.CHINA

SATIMO COMOHAC E-FIELD PROBE

SERIAL NO.: SN 02/12 EPH34

Calibrated at SATIMO US

2105 Barrett Park Dr. - Kennesaw, GA 30144

ACCREDITED
Calibration CERT #2246.02

04/05/13

Summary:

This document presents the method and results from an accredited COMOHAC E-Field Probe calibration performed in SATIMO USA using the CALIBAIR test bench, for use with a SATIMO COMOHAC system only. All calibration results are traceable to national metrology institutions.

	Name	*Function*	*Date*	*Signature*
Prepared by :	Jérôme LUC	Product Manager	4/5/2013	
Checked by :	Jérôme LUC	Product Manager	4/5/2013	
Approved by :	Kim RUTKOWSKI	Quality Manager	4/5/2013	

	Customer Name
Distribution :	Shenzhen EMC-united Co., Ltd

Issue	*Date*	*Modifications*
A	4/5/2013	Initial release

TABLE OF CONTENTS

1 DEVICE UNDER TEST

Device Under Test	
Device Type	COMOHAC E FIELD PROBE
Manufacturer	Satimo
Model	SCE
Serial Number	SN 02/12 EPH34
Product Condition (new / used)	New
Frequency Range of Probe	0.7GHz-2.5GHz
Resistance of Three Dipoles at Connector	Dipole 1: R1=1.201 MΩ Dipole 2: R2=1.193 MΩ Dipole 3: R3=0.994 MΩ

A yearly calibration interval is recommended.

2 PRODUCT DESCRIPTION

2.1 GENERAL INFORMATION

Satimo's COMOHAC E field Probes are built in accordance to the ANSI C63.19 and IEEE 1309 standards.

Figure 1 – *Satimo COMOHAC E field Probe*

Probe Length	330 mm
Length of Individual Dipoles	3.3 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	5 mm
Distance between dipoles / probe extremity	3 mm

3 MEASUREMENT METHOD

All methods used to perform the measurements and calibrations comply with the ANSI C63.19 and IEEE 1309 standards.

3.1 LINEARITY

The linearity was determined using a standard dipole with the probe positioned 10 mm above the dipole. The input power of the dipole was adjusted from -15 to 36 dBm using a 1dB step (to cover the range 2V/m to 1000A/m).

3.2 SENSITIVITY

The sensitivity factors of the three dipoles were determined using the waveguide method outlined in the fore mentioned standards.

3.3 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole. The probe was rotated along its main axis from 0 - 360 degrees in 15 degree steps.

3.4 PROBE MODULATION RESPONSE

The modulation factor was determined by illuminating the probe with a reference wave from a standard dipole 10 mm away, applying first a CW signal and then a modulated signal (both at same power level). The modulation factor is the ratio, in linear units, of the CW to modulated signal reading.

4 MEASUREMENT UNCERTAINTY

The guidelines outlined in the IEEE 1528 and IEC/CEI 62209 standards were followed to generate the measurement uncertainty associated with an E-field probe calibration using the waveguide technique. All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

Uncertainty analysis of the probe calibration in waveguide					
ERROR SOURCES	**Uncertainty value (%)**	**Probability Distribution**	**Divisor**	**ci**	**Standard Uncertainty (%)**
Incident or forward power	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Reflected power	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Field homogeneity	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Field probe positioning	5.00%	Rectangular	$\sqrt{3}$	1	2.887%
Field probe linearity	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Combined standard uncertainty					4.509%
Expanded uncertainty 95 % confidence level k = 2					9.0%

5 CALIBRATION MEASUREMENT RESULTS

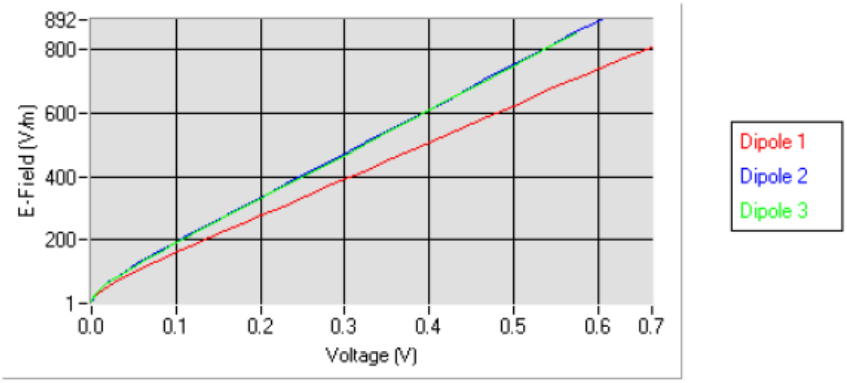
Calibration Parameters	
Lab Temperature	21 °C
Lab Humidity	45 %

5.1 SENSITIVITY IN AIR

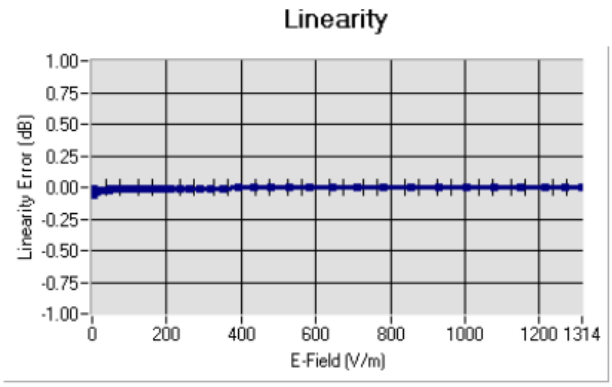
Normx dipole 1 ($\mu V/(V/m)^2$)	Normy dipole 2 ($\mu V/(V/m)^2$)	Normz dipole 3 ($\mu V/(V/m)^2$)
4.84	4.37	4.63

DCP dipole 1 (mV)	DCP dipole 2 (mV)	DCP dipole 3 (mV)
120	119	122

Calibration curves

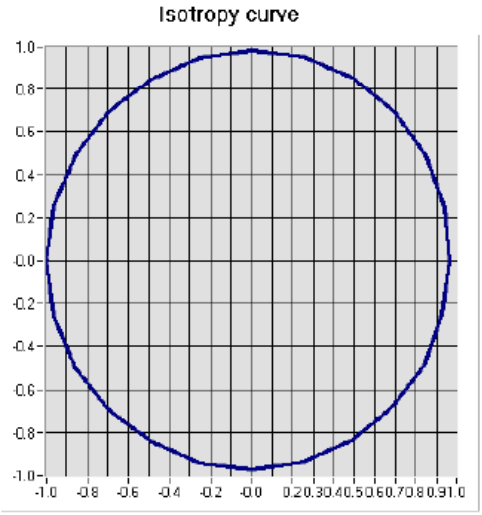


5.2 LINEARITY



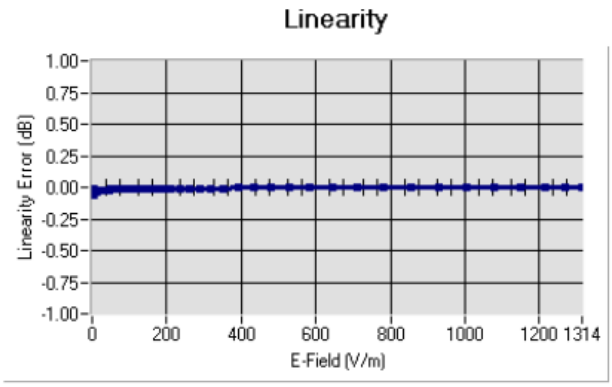
Linearity: +/-1.49% (+/-0.07dB)

5.3 ISOTROPY



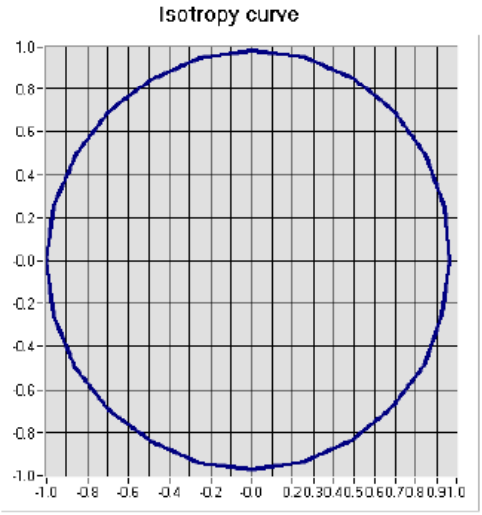
Isotropy: +/-2.02% (+/-0.09dB)

5.2 LINEARITY



Linearity: +/-1.49% (+/-0.07dB)

5.3 ISOTROPY



Isotropy: +/-2.02% (+/-0.09dB)

6 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	**Manufacturer / Model**	**Identification No.**	**Current Calibration Date**	**Next Calibration Date**
HAC positioning ruler	Satimo	TABH12 SN 42/09	Validated. No cal required.	Validated. No cal required.
COMOHAC Test Bench	Version 2	NA	Validated. No cal required.	Validated. No cal required.
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/2013	02/2016
Reference Probe	Satimo	EPH28 SN 08/11	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Reference Probe	Satimo	HPH38 SN31/10	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Multimeter	Keithley 2000	1188656	11/2010	11/2013
Signal Generator	Agilent E4438C	MY49070581	12/2010	12/2013
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	HP E4418A	US38261498	11/2010	11/2013
Power Sensor	HP ECP-E26A	US37181460	11/2010	11/2013
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Waveguide	Mega Industries	069Y7-158-13-712	Validated. No cal required.	Validated. No cal required.
Waveguide Transition	Mega Industries	069Y7-158-13-701	Validated. No cal required.	Validated. No cal required.
Waveguide Termination	Mega Industries	069Y7-158-13-701	Validated. No cal required.	Validated. No cal required.
Temperature / Humidity Sensor	Control Company	11-661-9	3/2012	3/2014

H-Field Probe Calibration Ceriticate

COMOHAC H-Field Probe Calibration

Ref : ACR.96.11.13.SATU.A

CCIC SOUTHERN ELECTRONIC PRODUCT TESTING (SHENZHEN) CO.,LTD

ELECTRONIC TESTING BUILDING,SHAHE ROAD, XILI TOWN SHENZHEN,P.R.CHINA

SATIMO COMOHAC H-FIELD PROBE

SERIAL NO.: SN 02/12 HPH45

Calibrated at SATIMO US

2105 Barrett Park Dr. - Kennesaw, GA 30144

ACCREDITED
Calibration CERT #2246.02

04/05/13

Summary:

This document presents the method and results from an accredited COMOHAC H-Field Probe calibration performed in SATIMO USA using the CALIBAIR test bench, for use with a SATIMO COMOHAC system only. All calibration results are traceable to national metrology institutions.

	Name	*Function*	*Date*	*Signature*
Prepared by :	Jérôme LUC	Product Manager	4/5/2013	
Checked by :	Jérôme LUC	Product Manager	4/5/2013	
Approved by :	Kim RUTKOWSKI	Quality Manager	4/5/2013	

	Customer Name
Distribution :	Shenzhen EMC-united Co., Ltd

Issue	*Date*	*Modifications*
A	4/5/2013	Initial release