SAR Test Report

Report No.: AGC06P121101-2S1

FCC ID : UOSAM213

PRODUCT

DESIGNATION : mobile phone

BRAND NAME : AMGOO

MODEL NAME : AM213

CLIENT: Amgoo Telecom Co., Ltd.

DATE OF ISSUE : Nov.16,2012

STANDARD(S) FCC Oet65 Supplement C June 2001

IEEE Std. 1528-2003,47CFR § 2.1093

REPORT VERSION: V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

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Page 1 of 111

| Test Report Certification | | | | |
|---------------------------|--|--|--|--|
| Applicant Name | Amgoo Telecom Co., Ltd. | | | |
| Applicant Address | 6/F, Block 3, Tongjian Building, NO.2013, Middle Shennan Rd., Futian District, Shenzhen, China | | | |
| Manufacturer Name | Amgoo Telecom Co., Ltd. | | | |
| Manufacturer Address | 6/F, Block 3, Tongjian Building, NO.2013, Middle Shennan Rd., Futian District, Shenzhen, China | | | |
| Product Designation | mobile phone | | | |
| Brand Name | AMGOO | | | |
| Model Name | AM213 | | | |
| Different Description | N/A | | | |
| EUT Voltage | DC3.7V by battery | | | |
| Applicable Standard | FCC Oet65 Supplement C June 2001 IEEE Std. 1528-2003,47CFR § 2.1093 | | | |
| Test Date | Nov.09,2012 | | | |
| Test Results | MAX SAR MEASUREMENT(1g) Head:0.746 W/Kg Body:0.667W/Kg (Scaling SAR=0.756 W/Kg) | | | |
| Performed Location | Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park Gushu, Xixiang Street, Bao'an District, Shenzhen, China | | | |

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Page 2 of 111

TABLE OF CONTENTS

| 1. GENERAL INFORMATION | 3 |
|--|------------|
| 1.1. EUT DESCRIPTION | 5 |
| 2. SAR MEASUREMENT SYSTEM | 6 |
| 2.1. COMOSAR SYSTEM DESCRIPTION 2.2. COMOSAR E-FIELD PROBE 2.3. ROBOT 2.4. VIDEO POSITIONING SYSTEM 2.5. DEVICE HOLDER 2.6. SAM TWIN PHANTOM | |
| 3. TISSUE SIMULATING LIQUID | 11 |
| 3.1. THE COMPOSITION OF THE TISSUE SIMULATING LIQUID | |
| 4. SAR MEASUREMENT PROCEDURE | 14 |
| 4.1. SAR SYSTEM VALIDATION | |
| 5. SAR EXPOSURE LIMITS | 17 |
| 6. TEST EQUIPMENT LIST | 18 |
| 7. MEASUREMENT UNCERTAINTY | 19 |
| 8. CONDUCTED POWER MEASUREMENT | 20 |
| 9. TEST RESULTS | 2 1 |
| 9.1. SAR TEST RESULTS SUMMARY | 21 |
| APPENDIX A. SAR SYSTEM VALIDATION DATA | 26 |
| APPENDIX B. SAR MEASUREMENT DATA | 30 |
| APPENDIX C. TEST SETUP PHOTOGRAPHS &EUT PHOTOGRAPS | 74 |
| APPENDIX D. PROBE CALIBRATION DATA | 85 |
| APPENDIX E. DIPOLE CALIBRATION DATA | 94 |

Page 3 of 111

1. General Information

1.1. EUT Description

| General Information | | | | |
|--------------------------------------|--|--|--|--|
| Product Designation | mobile phone | | | |
| Test Model | AM213 | | | |
| Hardware Version | G601 MAIN V1.1 | | | |
| Software Version | N/A | | | |
| Device Category | Portable | | | |
| RF Exposure Environment | Uncontrolled | | | |
| Antenna Type | Internal | | | |
| GSM and GPRS | | | | |
| Support Band | | | | |
| GPRS Type | Class B | | | |
| GPRS Class | Class 8,10 ,12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx) | | | |
| TX Frequency Range | GSM 850 : 824.2~848.8MHz; PCS 1900: 1850.2~1909.8MHz; | | | |
| RX Frequency Range | GSM 850 : 869~894MHz PCS 1900: 1930~1990MHz | | | |
| Release Version | R99 | | | |
| Type of modulation | GMSK for GSM/GPRS | | | |
| Antenna Gain | 1.0dBi | | | |
| Max. Output Power (Avg. Burst Power) | GSM850: 31.85dBm(32.57 Peak Power) PCS1900: 28.47dBm(29.66 Peak Power) | | | |
| Max. Output Power (Radiated) | GSM850: 30.62dBm- ERP PCS1900: 28.35dBm- EIRP | | | |
| Bluetooth | | | | |
| Bluetooth Version | □V2.0 □V2.1 □V2.1+EDR □V3.0 ⊠V3.0+EDR | | | |

Page 4 of 111

| Operation Frequency | 2402~2480MHz | | |
|---------------------------------------|---|--|--|
| Type of modulation | ⊠GFSK ⊠∏/4-DQPSK ⊠8-DPSK | | |
| Max. Output Power (Peak Conducted) | 3.41dBm | | |
| Antenna Gain | 0.8dBi | | |
| Accessories | | | |
| Battery | Brand name: AMGOO Model No. : AM-4S Voltage and Capacitance: 3.7 V &750mA | | |
| Adapter | Brand name: AMGOO Model No. : CH4 Input: AC 100-240V~500mA Output: DC 5V | | |
| Earphone | Brand name: N/A Model No. : N/A | | |

Note: The sample used for testing is end product.

Page 5 of 111

1.2. Test Procedure

| 1 | Setup the EUT and simulators as shown on above. |
|---|--|
| 2 | Turn on the power of all equipment. |
| 3 | EUT Communicate with CMU 200, and test them respectively at U.S. bands |

1.3. Test Environment

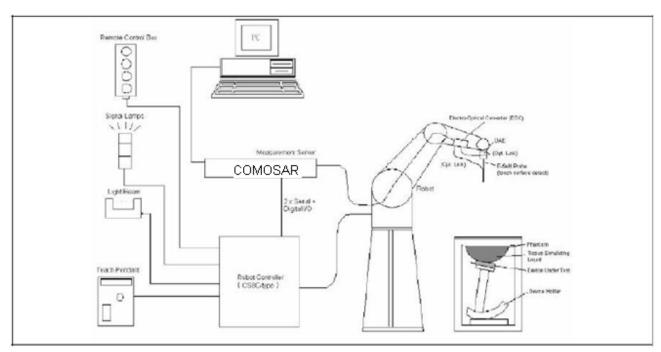
Ambient conditions in the laboratory:

| Items | Required | Actual |
|------------------|----------|--------|
| Temperature (°C) | 18-25 | 21± 2 |
| Humidity (%RH) | 30-70 | 55±2 |

Page 6 of 111

2. SAR Measurement System

2.1. COMOSAR System Description



The COMOSAR system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot with controller, teach pendant and software.

An arm extension for accommodating the data acquisition electronics (DAE).

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection,

collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communicate Mobile mobile phone to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.

The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.

A computer running WinXP and the Opensar software.

Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.

The phantom, the device holder and other accessories according to the targeted measurement.

2.1.1. Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

Page 7 of 111

2.1.2. Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm² step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

2.1.3. Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications utilize a physical step of 7x7x7 (5mmx5mmx5mm) providing a volume of 30mm in the X & Y axis, and 30mm in the Z axis.

2.1.4. Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Post processor, COMOSAR allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat distribution f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x,y,z) = Ae^{-\frac{z}{2a}}\cos^2\left(\frac{\pi}{2}\frac{\sqrt{x'^2 + y'^2}}{5a}\right)$$

$$f_2(x,y,z) = Ae^{-\frac{z}{a}}\frac{a^2}{a^2 + x'^2}\left(3 - e^{-\frac{2z}{a}}\right)\cos^2\left(\frac{\pi}{2}\frac{y'}{3a}\right)$$

$$f_3(x,y,z) = A\frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2}\left(e^{-\frac{2z}{a}} + \frac{a^2}{2(a+2z)^2}\right)$$

Page 8 of 111

2.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dissymmetric probe manufactured by SPEAG.

The probe is specially designed and calibrated for use in liquid with high permittivity. The dissymmetric probe has special calibration in liquid at different frequency.

SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN62209-1, IEC 62209, etc.) Under ISO17025. The calibration data are in Appendix D.

2.2.1. Isotropic E-Field Probe Specification

| Model | SSE5 |
|--------------------|--|
| Manufacture | Satimo |
| frequency | 0.3 GHz-6GHz Linearity:±0.2dB(300 MHz-6GHz) |
| Dynamic | 0.01W/Kg-100W/Kg |
| Range | Linearity:±0.2dB |
| Dimensions | Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm |
| Appli-mobile phone | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%. |

2.3. Robot

The COMOSAR system uses the high precision robots TX90 XL type out of the newer series from Satimo SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from Satimo is used.

The XL robot series have many features that are important for our application:

High precision (repeatability 0.02 mm)

High reliability (industrial design)

Jerk-free straight movements

Low ELF interference (the closed metallic

construction shields against motor control fields)

6-axis controller



Page 9 of 111

2.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.

During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

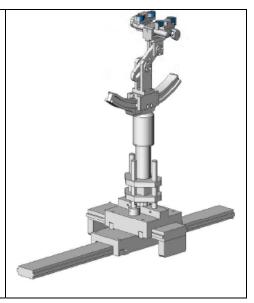


2.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon r=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Page 10 of 111

2.6. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

Left head Right head Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

Page 11 of 111

3. Tissue Simulating Liquid

3.1. The composition of the tissue simulating liquid

| Ingredient | 850MHz | 850MHz | 1900MHz | 1900MHz |
|------------|--------|--------|---------|---------|
| (% Weight) | Head | Body | Head | Body |
| Water | 40.45 | 52.4 | 54.90 | 40.5 |
| Salt | 1.42 | 1.40 | 0.18 | 0.50 |
| Sugar | 57.6 | 45.0 | 0.00 | 58.0 |
| HEC | 0.40 | 1.00 | 0.00 | 0.50 |
| Preventol | 0.10 | 0.20 | 0.00 | 0.50 |
| DGBE | 0.00 | 0.00 | 44.92 | 0.00 |

Page 12 of 111

3.2. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and R&S Network Analyzer ZVL6 .

| Tissue Stimulant Measurement for GSM 850 | | | | | |
|--|-------|--------------------------------|------------------------------|-------------------------------|---------------------|
| Frequency (MHz) | Parts | Description | Dielectric Parameters | | Tissue Temp [°C] |
| 850MHz | Head | Reference result ±5% window | εr 41.50 39.425-43.575 | δ[s/m] 0.90 0.855-0.945 | N/A |
| | | Nov.09,2012 | 39.99 | 0.92 | 21 |
| 850MHz | Body | Reference result ±5% window | εr 55.20 52.44-57.96 | δ[s/m] 0.97 0.92-1.02 | N/A |
| | | Nov.09,2012 | 53.48 | 0.95 | 21 |

| Tissue Stimu | Tissue Stimulant Measurement for PCS 1900 | | | | | |
|--------------------|---|--------------------------------|----------------------------|-----------------------------|---------------------|--|
| Frequency (MHz) | Parts | Description | Dielectric F | Parameters | Tissue Temp [°C] | |
| 1900MHz | Head | Reference result ±5% window | εr 40.00 38.00-42.00 | δ[s/m] 1.40 1.33-1.47 | N/A | |
| | | Nov.09,2012 | 39.61 | 1.42 | 21 | |
| 1900MHz | Body | Reference result ±5% window | εr 53.30 50.64-55.97 | δ[s/m] 1.52 1.44-1.60 | N/A | |
| | - | Nov.09,2012 | 52.88 | 1.49 | 21 | |

Page 13 of 111

3.3. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

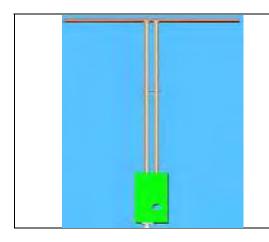
| Target Frequency | head | | bo | ody |
|------------------|------|---------|------|---------|
| (MHz) | εr | σ (S/m) | εr | σ (S/m) |
| 300 | 45.3 | 0.87 | 58.2 | 0.92 |
| 450 | 43.5 | 0.87 | 56.7 | 0.94 |
| 850 | 41.5 | 0.90 | 55.2 | 0.97 |
| 900 | 41.5 | 0.97 | 55.0 | 1.05 |
| 915 | 41.5 | 1.01 | 55.0 | 1.06 |
| 1450 | 40.5 | 1.20 | 54.0 | 1.30 |
| 1610 | 40.3 | 1.29 | 53.8 | 1.40 |
| 1800 – 2000 | 40.0 | 1.40 | 53.3 | 1.52 |
| 2450 | 39.2 | 1.80 | 52.7 | 1.95 |
| 3000 | 38.5 | 2.40 | 52.0 | 2.73 |
| 5800 | 35.3 | 5.27 | 48.2 | 6.00 |

(ε r = relative permittivity, σ = conductivity and ρ = 1000 kg/m₃)

Page 14 of 111

4. SAR Measurement Procedure

4.1. SAR System Validation 4.1.1. Validation Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and Specifications for the dipoles.

| Frequency | L (mm) | h (mm) | d (mm) |
|-----------|--------|--------|--------|
| 900 MHz | 149.0 | 83.3 | 3.6 |
| 1900MHz | 68 | 39.5 | 3.6 |

Page 15 of 111

4.1.2. Validation Result

| System Performance Check at 850 MHz &1900MHz for Head | | | | | | | | | |
|---|--|------------------------|------------------------|------------------|--|--|--|--|--|
| Validation Kit: SN 46/11DIP 0G900-185 | | | | | | | | | |
| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp.[°C] | | | | | |
| 850 MHz | Reference result ± 10% window | 10.9 9.81 to 11.99 | 6.99 6.29 to 7.69 | N/A | | | | | |
| | Nov.09,2012 | 10.91 | 6.90 | 21.0 | | | | | |
| Validation Kit | :: SN 46/11DIP 1G900- | 187 | | | | | | | |
| Frequency [MHz] | Description | SAR [w/kg] 1g | SAR [w/kg] 10g | Tissue Temp.[°C] | | | | | |
| 1900 MHz | Reference result ± 10% window | 39.7 35.73 to 43.67 | 20.5 18.45 to 22.55 | N/A | | | | | |
| | Nov.09,2012 | 40.27 | 19.55 | 21.0 | | | | | |
| Note: All SAR | Note: All SAR values are normalized to 1W forward power. | | | | | | | | |

Page 16 of 111

4.2. SAR Measurement Procedure

The COMOSAR calculates SAR using the following equation,

$$SAR = \frac{\sigma |E|^2}{\rho}$$

σ: represents the simulated tissue conductivity

p: represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm²) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm³).

When multiple peak SAR location were found during the same configuration or test mode, Zoom scan shall performed on each peak SAR location, only the peak point with maximum SAR value will be reported for the configuration or test mode.

Page 17 of 111

5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

Limits for General Population/Uncontrolled Exposure (W/kg)

| Type Exposure | Uncontrolled Environment Limit |
|---|-----------------------------------|
| Spatial Peak SAR (1g cube tissue for brain or body) | 1.60 W/kg |

Page 18 of 111

6. Test Equipment List

| Equipment description | Manufacturer/Mo del | Identification No. | Identification No. Current calibration date Next calibration date | | |
|-----------------------|------------------------|--------------------------|---|-----------------------------|--|
| SAR Probe | Satimo | SN_3511_EP132 | 12/09/2011 | 12/08/2012 | |
| Phantom | Satimo | SN_4511_SAM90 | Validated. No cal required. | Validated. No cal required. | |
| Liquid | Satimo | - | Validated. No cal required. | Validated. No cal required. | |
| Comm Tester | R&S - CMU200 | 069Y7-158-13-712 | 12/09/2011 | 12/08/2012 | |
| Multimeter | Keithley 2000 | 1188656 | 12/09/2011 | 12/08/2012 | |
| Dipole | Satimo SID900 | SN46/11 DIP 0G900-185 | 12/09/2011 | 12/08/2014 | |
| Dipole | Satimo SID1900 | SN46/11 DIP 1G900-187 | 12/09/2011 | 12/08/2014 | |
| Amplifier | Aethercomm | SN 046 | 12/09/2011 | 12/08/2012 | |
| Power Meter | HP E4418A | US38261498 | 03/30/2012 | 03/29/2013 | |
| Network Analyzer | Rhode & Schwarz ZVA | SN100132 | 02/07/2012 | 02/06/2013 | |

Note: Per KDB 50824 Dipole SAR Validation Verification, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

- 1. There is no physical damage on the dipole;
- 2. System validation with specific dipole is within 10% of calibrated value;
- 3. Return-loss is within 20% of calibrated measurement;
- 4. Impedance is within 5Ω of calibrated measurement.

Page 19 of 111

7. Measurement Uncertainty

| Management | | | atimo U | | | | m / 10 mm | | |
|---|---------|-------------|----------------|------|-----------------|-----------------|----------------------------------|---------------------------|--------------|
| Error Description | Sec | Tol (±%) | Prob. Dist. | Div. | (Ci) 1g | (Ci) 10g | n / 10 gram. Std. Unc. (1g) (±%) | Std. Unc. (10g)(±%) | (Vi) Veff |
| Measurement System | | | | | | | | | |
| Probe Calibration | E.2.1 | 6 | N | 1 | 1 | 1 | 6 | 6 | 00 |
| Axial Isotropy | E.2.2 | 3 | R | √3 | $(1-c_p)^{1/2}$ | $(1-c_p)^{1/2}$ | 1.22474 | 1.22474 | 00 |
| Hemispherical Isotropy | E.2.2 | 5 | R | √3 | √C _p | √C _p | 2.04124 | 2.04124 | 00 |
| Boundary Effects | E.2.3 | 1 | R | √3 | 1 | 1 | 0.57735 | 0.57735 | 00 |
| Linearity | E.2.4 | 5 | R | √3 | 1 | 1 | 2.88675 | 2.88675 | 00 |
| System Detection Limits | E.2.5 | 1 | R | √3 | 1 | 1 | 0.57735 | 0.57735 | 00 |
| Readout Electronics | E.2.6 | 0.5 | N | 1 | 1 | 1 | 0.5 | 0.5 | 00 |
| Response Time | E.2.7 | 0.2 | R | √3 | 1 | 1 | 0.11547 | 0.11547 | 00 |
| Integration Time | E.2.8 | 2 | R | √3 | 1 | 1 | 1.1547 | 1.1547 | 00 |
| RF Ambient Noise | E.6.1 | 3 | R | √3 | 1 | 1 | 1.73205 | 1.73205 | 00 |
| Probe Positioner Mechanical Tolerance | E.6.2 | 2 | R | √3 | 1 | 1 | 1.1547 | 1.1547 | 00 |
| Probe Positioning with Respect to Phantom Shell | E.63 | 1 | R | √3 | 1 | 1 | 0.57735 | 0.57735 | 80 |
| Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation | E.5.2 | 1.5 | R | √3 | 1 | 1 | 0.86603 | 0.86603 | ∞ |
| Dipole | | | | | | | | | |
| Device Positioning | 8,E.4.2 | 1 | N | √3 | 1 | 1 | 0.57735 | 0.57735 | N-1 |
| Power Drift | 8.6.6.2 | 2 | R | √3 | 1 | 1 | 1.1547 | 1.1547 | 00 |
| Phantom and Tissue Parameters | | • | | • | | | | | |
| Phantom Uncertainty | E.3.1 | 4 | R | √3 | 1 | 1 | 2.3094 | 2.3094 | 00 |
| Liquid Conductivity (target) | E.3.2 | 5 | R | √3 | 0.64 | 0.43 | 1.84752 | 1.2413 | 00 |
| Liquid Conductivity (meas.) | E.3.3 | 2.5 | N | 1 | 0.64 | 0.43 | 1.6 | 1.075 | 00 |
| Liquid Permittivity (target) | E.3.2 | 3 | R | √3 | 0.6 | 0.49 | 1.03923 | 0.8487 | 00 |
| Liquid Permittivity (meas.) | E.3.3 | 2.5 | N | 1 | 0.6 | 0.49 | 1.5 | 1.225 | М |
| Combined Standard Uncertainty | | | RSS | | | | 8.09272 | 7.9296 | |
| Expanded Uncertainty (95%CONFIDENCE INTERVAL) | | | k | | | | 16.18544 | 15.8592 | |

Page 20 of 111

8. Conducted Power Measurement

| Mode | Frequency(MHz) | Peak Power(dBm) | Avg. Burst Power(dBm) | Duty cycle Factor(dBm) | Frame Power(dBm) |
|----------------------|----------------|--------------------|--------------------------|---------------------------|---------------------|
| Maximum Po | wer <1> | | | | • |
| | 824.2 | 32.51 | 31.82 | -9 | 22.82 |
| GSM 850 | 836.6 | 32.57 | 31.85 | -9 | 22.85 |
| | 848.8 | 32.49 | 31.77 | -9 | 22.77 |
| 0000 050 | 824.2 | 32.48 | 31.79 | -9 | 22.79 |
| GPRS 850 (1 Slot) | 836.6 | 32.55 | 31.81 | -9 | 22.81 |
| (1 5101) | 848.8 | 32.46 | 31.72 | -9 | 22.72 |
| 0000 050 | 824.2 | 29.62 | 28.67 | -6 | 22.67 |
| GPRS 850 (2 Slot) | 836.6 | 29.65 | 28.69 | -6 | 22.69 |
| | 848.8 | 29.57 | 28.57 | -6 | 22.57 |
| 0000 050 | 824.2 | 27.52 | 26.62 | -4.26 | 22.36 |
| GPRS 850 | 836.6 | 27.58 | 26.51 | -4.26 | 22.25 |
| (3 Slot) | 848.8 | 27.49 | 26.43 | -4.26 | 22.17 |
| 0000 050 | 824.2 | 26.46 | 25.49 | -3 | 22.49 |
| GPRS 850 (4 Slot) | 836.6 | 26.53 | 25.41 | -3 | 22.41 |
| | 848.8 | 26.41 | 25.38 | -3 | 22.38 |
| | 1850.2 | 29.66 | 28.47 | -9 | 19.47 |
| PCS1900 | 1880 | 29.63 | 28.42 | -9 | 19.42 |
| | 1909.8 | 29.59 | 28.37 | -9 | 19.37 |
| 00004000 | 1850.2 | 29.59 | 28.36 | -9 | 19.36 |
| GPRS1900 (1 Slot) | 1880 | 29.54 | 28.33 | -9 | 19.33 |
| (1 3101) | 1909.8 | 29.47 | 28.28 | -9 | 19.28 |
| 00004000 | 1850.2 | 26.47 | 25.69 | -6 | 19.69 |
| GPRS1900 (2 Slot) | 1880 | 26.46 | 25.62 | -6 | 19.62 |
| (2 3101) | 1909.8 | 26.38 | 25.53 | -6 | 19.53 |
| GPRS1900 | 1850.2 | 24.97 | 24.38 | -4.26 | 20.12 |
| (3 Slot) | 1880 | 24.93 | 24.35 | -4.26 | 20.09 |
| (3 3101) | 1909.8 | 24.89 | 24.27 | -4.26 | 20.01 |
| CDD 04000 | 1850.2 | 23.62 | 22.45 | -3 | 19.45 |
| GPRS1900 (4 Slot) | 1880 | 23.56 | 22.37 | -3 | 19.37 |
| (4 3101) | 1909.8 | 23.52 | 22.32 | -3 | 19.32 |
| Maximum Po | wer <2> | | | | |
| GSM 850 | 836.6 | 32.44 | 31.57 | -9 | 22.57 |
| PCS 1900 | 1850.2 | 29.49 | 28.32 | -9 | 19.32 |

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) - 6 dB

Frame Power = Max burst power (3 Up Slot) -4.26dB

Frame Power = Max burst power (4 Up Slot) - 3 dB

Page 21 of 111

9. Test Results

9.1. SAR Test Results Summary

9.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE1528, and Body SAR was performed with the device 15mm from the phantom. Body SAR was also performed with the headset attached and without.

9.1.2. Body SAR with Headset

Testing with the headset was performed at the position and channels that resulted in the highest body SAR. This testing was performed with GPRS transmitting with 2/3/4 uplink timeslots. This operation mode represents the maximum SAR situation, when downloading data via GPRS and listening to music by headset. SAR without the headset attached was significantly higher than with the headset, and also was verified several times and confirmed, so the final test data shown were the worst case without headset. In the Body SAR test result table, body-worn means display of device down, body-front means display of device up.

9.1.3. Operation Mode

This is a multi-slot class 12 device capable of 4 uplink timeslots. During the head SAR test, the device was transmitting with maximum 1 uplink timeslot; during the body SAR test, it was transmitting with maximum 4 uplink timeslots. Additionally, this device doesn't support dual transfer mode (DTM).

9.1.4. Co-locate SAR

According to KDB 447498 and KDB 648474, due to the Max peak power for Bluetooth is less than Pref, the Maximum SAR for GSM part<1.2W/Kg, (The distance between the GSM antenna and Bluetooth Antenna is 7.2cm), stand-alone SAR and simultaneous transmission SAR is not required.

Other reference document: KDB 941225.

Page 22 of 111

9.1.5. SAR Test Results Summary

| SAR MEASUREMENT | |
|-----------------------------------|---------------------------|
| Ambient Temperature (°C) : 21 ± 2 | Relative Humidity (%): 55 |
| Liquid Temperature (°C) : 21 ± 2 | Depth of Liquid (cm):>15 |
| | |

Product: mobile phone

Test Mode: GSM850 with GMSK modulation

| Configuration | | Antenna Frequency | | Power Drift | SAR (1g) | Limit | | |
|---------------|----------|-------------------|----------|----------------|-------------|--------|--------|--------|
| SIM | Position | Status | Position | channel | MHz | (<±5%) | (W/kg) | (W/kg) |
| | | | | 128 | 824.2 | | | |
| | | Cheek | Fixed | 190 | 836.6 | 3.55 | 0.746 | 1.6 |
| | Left | | | 251 | 848.8 | | | |
| | Head | Tilted | | 128 | 824.2 | | | |
| | | | Fixed | 190 | 836.6 | 1.24 | 0.514 | 1.6 |
| <1> | | | | 251 | 848.8 | | | |
| <1> | | Cheek | Fixed | 128 | 824.2 | | | |
| | | | | 190 | 836.6 | 0.17 | 0.466 | 1.6 |
| | Right | | | 251 | 848.8 | | | |
| | Head | | | 128 | 824.2 | | | |
| | | Tilted | Fixed | 190 | 836.6 | -0.35 | 0.356 | 1.6 |
| | | | | 251 | 848.8 | | | |
| <2> | Left | Cheek | Fixed | 190 | 836.6 | 1.63 | 0.506 | 1.6 |

Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.

Page 23 of 111

SAR MEASUREMENT

Ambient Temperature (°C): 21 ± 2 Relative Humidity (%): 55

Liquid Temperature (°C) : 21 \pm 2 Depth of Liquid (cm):>15

Product: mobile phone

Test Mode: GSM850 with GMSK modulation

| Configuration | | Antenna Frequency | | Power Drift | SAR (1g) | Limit | | | |
|----------------|--------------|-------------------|----------|----------------|-------------|--------|--------|--------|--|
| SIM | Position | Status | Position | channel | MHz | (<±5%) | (W/kg) | (W/kg) | |
| | | | | 128 | 824.2 | | | | |
| | | MS | Fixed | 190 | 836.6 | -3.03 | 0.667 | 1.6 | |
| | | | | 251 | 848.8 | | | | |
| | | | | 128 | 824.2 | | | | |
| | | GPRS 2 TS | Fixed | 190 | 836.6 | -1.35 | 0.425 | 1.6 | |
| | Body | 2 10 | | 251 | 848.8 | | | | |
| | back | GPRS 3 TS | | 128 | 824.2 | | | | |
| | | | Fixed | 190 | 836.6 | -0.77 | 0.369 | 1.6 | |
| <1> | | | | 251 | 848.8 | | | | |
| <1 <i>></i> | | GPRS 4 TS | 0.000 | | 128 | 824.2 | | | |
| | | | Fixed | 190 | 836.6 | -0.64 | 0.365 | 1.6 | |
| | | | | 251 | 848.8 | | | | |
| | Body | | | 128 | 824.2 | | | | |
| | Front | MS | Fixed | 190 | 836.6 | -0.23 | 0.353 | 1.6 | |
| | | | | 251 | 848.8 | | | | |
| | | MS | | 128 | 824.2 | | | | |
| | Body back | with | Fixed | 190 | 836.6 | 0.45 | 0.358 | 1.6 | |
| | | Earphone | Earphone | | 251 | 848.8 | | | |

Note: when the 1-g SAR is \leq 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.

Page 24 of 111

| SAR MEASUREMENT | |
|----------------------------------|---------------------------|
| Ambient Temperature (°C): 21 ± 2 | Relative Humidity (%): 55 |
| Liquid Temperature (°C): 21 ± 2 | Depth of Liquid (cm):>15 |

Product: mobile phone

Test Mode: PCS1900 with GMSK modulation

| Configuration | | Antenna Position | | | Power Drift | SAR (1g) | Limit | |
|---------------|----------|---------------------|----------|---------|----------------|-------------|--------|--------|
| SIM | Position | Status | Position | channel | MHz | (<±5%) | (W/kg) | (W/kg) |
| | | | | 512 | 1850.2 | | | |
| | | Cheek | Fixed | 661 | 1880.0 | 3.64 | 0.646 | 1.6 |
| | Left | | | 810 | 1909.8 | | | |
| | Head | Tilted | | 512 | 1850.2 | | | |
| | | | Fixed | 661 | 1880.0 | 1.34 | 0.478 | 1.6 |
| <1> | | | | 810 | 1909.8 | | | |
| <1> | | Cheek | Fixed | 512 | 1850.2 | | | |
| | | | | 661 | 1880.0 | 2.27 | 0.579 | 1.6 |
| | Right | | | 810 | 1909.8 | | | |
| | Head | | | 512 | 1850.2 | | | |
| | | Tilted | Fixed | 661 | 1880.0 | 0.68 | 0.325 | 1.6 |
| | | | | 810 | 1909.8 | | | |
| <2> | Left | Cheek | Fixed | 661 | 1880.0 | 2.15 | 0.517 | 1.6 |

Note: when the 1-g SAR is \leq 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.

Depth of Liquid (cm):>15

Page 25 of 111

| SAR MEASUREMENT | |
|-----------------------------------|---------------------------|
| Ambient Temperature (°C) : 21 ± 2 | Relative Humidity (%): 55 |

Product: mobile phone

Liquid Temperature (°C): 21 ± 2

Test Mode: GSM1900 with GMSK modulation

| Configuration | | Antenna Frequency | | Power Drift | SAR (1g) | Limit | | | | | |
|---------------|---------------|-------------------|----------|----------------|-------------|--------|--------|--------|--|--|--|
| SIM | Position | Status | Position | channel | MHz | (<±5%) | (W/kg) | (W/kg) | | | |
| | | | | 512 | 1850.2 | | | | | | |
| | | MS | Fixed | 661 | 1880.0 | -0.57 | 0.614 | 1.6 | | | |
| | | | | 810 | 1909.8 | | | | | | |
| | | | | 512 | 1850.2 | | | | | | |
| | | GPRS 2 TS | Fixed | 661 | 1880.0 | -1.68 | 0.404 | 1.6 | | | |
| | Body | 210 | | 810 | 1909.8 | | | | | | |
| | Back | GPRS 3 TS | Fixed | 512 | 1850.2 | | | | | | |
| | | | | 661 | 1880.0 | 1.00 | 0.376 | 1.6 | | | |
| <1> | | | | 810 | 1909.8 | | | | | | |
| <1> | | | Fixed | 512 | 1850.2 | | | | | | |
| | | GPRS 4 TS | | 661 | 1880.0 | -3.16 | 0.353 | 1.6 | | | |
| | | | | 810 | 1909.8 | | | | | | |
| | | | | 512 | 1850.2 | | | | | | |
| | Body front | MS | Fixed | 661 | 1880.0 | -1.19 | 0.206 | 1.6 | | | |
| | | | | 810 | 1909.8 | | | | | | |
| | | MS | | 512 | 1850.2 | | | | | | |
| | Body Back | with | Fixed | 661 | 1880.0 | -2.07 | 0.426 | 1.6 | | | |
| | Baok | Earphone | Earphone | Earphone | Earphone | | 810 | 1909.8 | | | |

Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.

Page 26 of 111

Appendix A. SAR System Validation Data

Test Laboratory: AGC Lab

Date: Nov.09,2012

System Check Head 850 MHz

DUT: Dipole 900 MHz Type: SID 900

Communication System CW; Communication System Band: D850(850.0 MHz); Duty Cycle: 1:1; Conv.F=6.79 Frequency: 850 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.92$ mho/m; $\epsilon r = 39.99$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section ; Input Power=10dBm Ambient temperature (°C): 21, Liquid temperature (°C): 21

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

· Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM1; Type: SAM

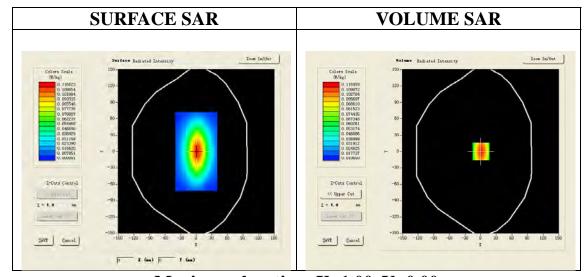
· Measurement SW: OpenSAR V4_02_01

Configuration/System Check GSM850 Head/Area Scan: Measurement grid: dx=8mm,

dy=8mm

Configuration/System Check GSM850 Head/Zoom Scan: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

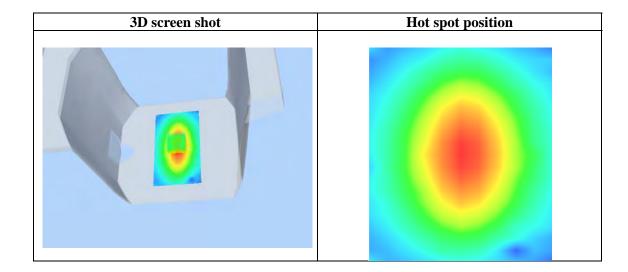


Maximum location: X=1.00, Y=0.00

| SAR 10g (W/Kg) | 0.069044 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.109128 |

Report No.: AGC06P121101-2S1 Page 27 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|--------------------|-------------------|---------------|----------------|--------|
| SAR (W/Kg) | 0.0000 | 0.1173 | 0.0768 | 0.0492 | 0.0357 |
| | SAR, 2 | Z Axis Scar | n (X = 1, | ¥ = 0) | |
| C |). 12 - | | | | |
| c |). 10 - | \longrightarrow | | | - |
| (#/kg) |). 08 – | | | | |
| |). 06 – | | | | |
| C |). 04 - | | | | - |
| c | 0.02- 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 |
| | Z (mm) | | | | |
| | | | | | |



Page 28 of 111

Test Laboratory: AGC Lab
System Check Head 1900MHz

Date: Nov.09,2012

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=6.42Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.61$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Input Power=10dBm Ambient temperature ($^{\circ}$ C): 21, Liquid temperature ($^{\circ}$ C): 21

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

Measurement SW: OpenSAR V4_02_01

Configuration/System Check PCS1900 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm Configuration/System Check PCS1900 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

SURFACE SAR

VOLUME SAR

Foliate Scale

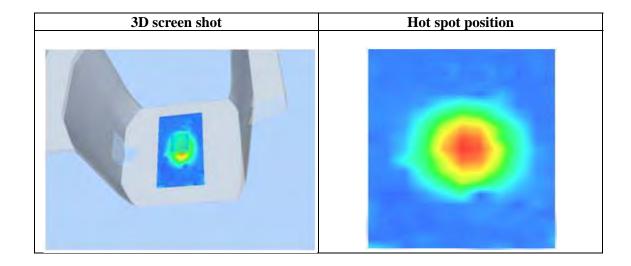
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Maximum location: X=2.00, Y=1.00

| | 110 11 |
|----------------|----------|
| SAR 10g (W/Kg) | 0.195518 |
| SAR 1g (W/Kg) | 0.402653 |

Report No.: AGC06P121101-2S1 Page 29 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|--|---------|--|--|--------|--------|
| SAR (W/Kg) | 0.0000 | 0.4381 | 0.2250 | 0.1118 | 0.0543 |
| | SAR, Z | Axis Sca | n (X = 2, | Y = 1) | |
| | . 44 – | | | | |
| 0 | . 40 – | \ | | | - |
| 0 | . 35 – | + | \perp | | - |
| 20 | . 30 – | \perp | | | |
| /kg | 1. 30 - | + | | | |
| <u>. ප</u> | 20- | | | | |
| SAR | . 20 - | | | | |
| | | | | | |
| | . 10- | | | | |
| 0 | . 02 – | | | | |
| 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 | | | | | |
| | Z (mm) | | | | |
| | | | | | |



Page 30 of 111

Appendix B. SAR measurement Data

Test Laboratory: AGC Lab Date: Nov.09,2012

GSM 850 Middle-touch-Left

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.92$ mho/m; $\epsilon r = 39.99$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

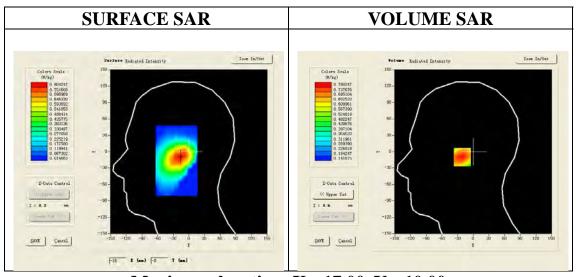
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

| Area Scan | sam_direct_droit2_surf8mm.txt | | |
|-----------------|--------------------------------------|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | |
| Phantom | Left head | | |
| Device Position | Cheek | | |
| Band | GSM850 | | |
| Channels | Middle | | |
| Signal | TDMA (Crest factor: 8.0) | | |

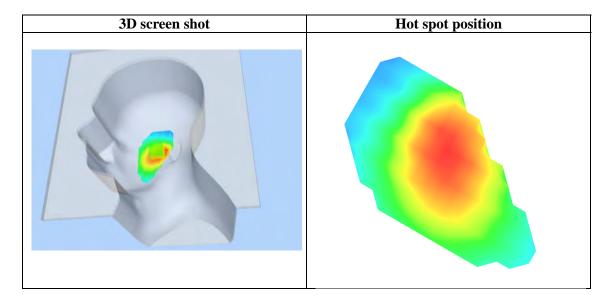


Maximum location: X=-17.00, Y=-10.00

| SAR 10g (W/Kg) | 0.532474 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.745678 |

Report No.: AGC06P121101-2S1 Page 31 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|-----------|-------------------|---|----------------|--------|
| SAR (W/Kg) | 0.0000 | 0.7858 | 0.5761 | 0.4379 | 0.3282 |
| | SAR, Z | Axis Scan | (X = -17, | Y = -10) | |
| C |). 8- | | | | |
| c |). 7 – | \longrightarrow | + | | |
| (W/kg) |). 6 - | | | | |
|) કે |). 5 - | | $\downarrow \downarrow \downarrow \downarrow$ | | |
| SAR |). 4 | | | | |
| |). 3 - | | ++ | | |
| (| 0.0 2.5 5 | .0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 |
| | Z (mm) | | | | |
| | | | | | |



Date: Nov.09,2012

Page 32 of 111

Test Laboratory: AGC Lab GSM 850 Mid Tilt-left

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty

Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.92$ mho/m;

 $\epsilon r = 39.99$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

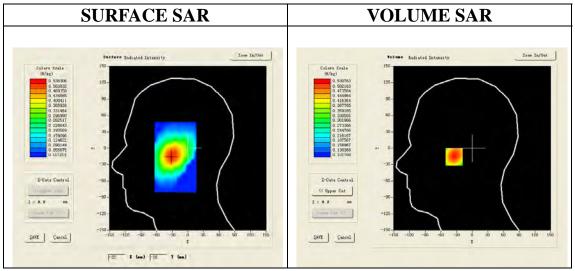
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/GSM850 Mid Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Left head | | | |
| Device Position | Tilt | | | |
| Band | GSM850 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

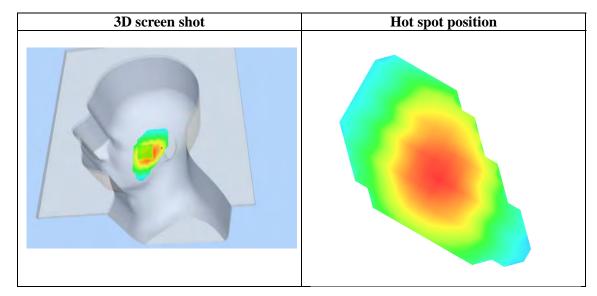


Maximum location: X=-32.00, Y=-16.00

| SAR 10g (W/Kg) | 0.361786 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.514460 |

Report No.: AGC06P121101-2S1 Page 33 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|--------------------|--------------|---------------|----------------|--------|
| SAR (W/Kg) | 0.0000 | 0.5372 | 0.4156 | 0.3173 | 0.2494 |
| | SAR, Z A | Axis Scan | (X = −32, | ₹ = -16) | |
| |). 53 –). 50 – | | | | |
| |). 45 – | | | | |
| (/kg) |). 40 - | | | | |
| |). 35 - | | | | |
| | | | | | |
| |). 25 - | | | | |
| C | 0.18 - 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 |
| | Z (mm) | | | | |
| | | | | | |



Date: Nov.09,2012

Page 34 of 111

Test Laboratory: AGC Lab
GSM 850 Middle touch-Right

DUT: mobile phone ; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.92$ mho/m;

 $\epsilon r = 39.99; \rho = 1000 \text{ kg/m}^3$; Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

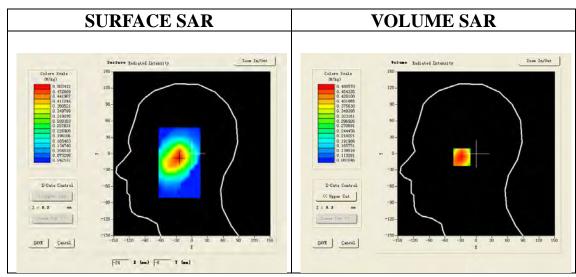
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | |
|-----------------|--------------------------------------|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | |
| Phantom | Right head | | |
| Device Position | Cheek | | |
| Band | GSM850 | | |
| Channels | Middle | | |
| Signal | TDMA (Crest factor: 8.0) | | |

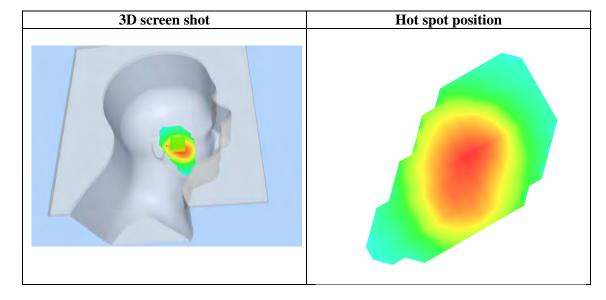


Maximum location: X=-25.00, Y=-6.00

| SAR 10g (W/Kg) | 0.324690 |
|-----------------------|----------|
| SAR 1g (W/Kg) | 0.465688 |

Report No.: AGC06P121101-2S1 Page 35 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|---|-----------|------------------|---------------|----------------|--------|
| SAR (W/Kg) | 0.0000 | 0.4863 | 0.3437 | 0.2582 | 0.1919 |
| | SAR, Z | Axis Scan | (X = -25, | ∀ = −6) | |
| 0 |). 48 – | | | | - |
| C |). 45 – | | + | | - |
| c |). 40 | + | | | |
| (kg) |). 35 - | $+$ \wedge $+$ | | | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 0.35 | | + | | - |
| |). 25 - | | | | - |
| C |). 20 - | | ++ | | - |
| |). 15 – | | \rightarrow | | - |
| | 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 |
| Z (mm) | | | | | |
| | | | | | |



Date: Nov.09,2012

Page 36 of 111

Test Laboratory: AGC Lab GSM 850 Mid-tilt-Right

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ =0.92 mho/m; ϵ = 39.99;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

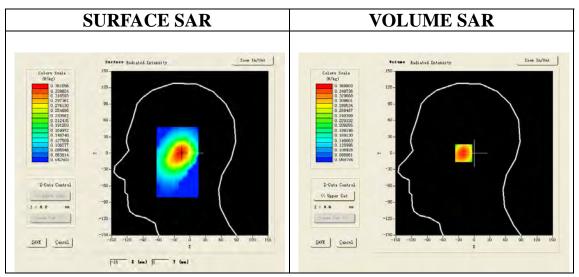
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GSM850 Mid Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|------------------------|--------------------------------------|--|--|--|
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Right head | | | |
| Device Position | Tilt | | | |
| Band | GSM850 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

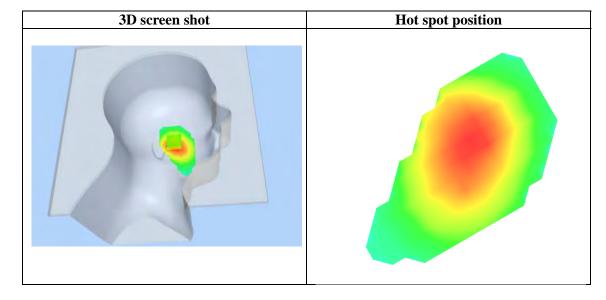


Maximum location: X=-17.00, Y=0.00

| SAR 10g (W/Kg) | 0.244096 | |
|-----------------------|----------|--|
| SAR 1g (W/Kg) | 0.355621 | |

Report No.: AGC06P121101-2S1 Page 37 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|-------------------------------------|--------------|---------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.3667 | 0.2567 | 0.1875 | 0.1428 | | |
| | SAR, Z Axis Scan $(X = -17, Y = 0)$ | | | | | | |
| C |). 37 – | | | | | | |
| |). 30 - | | | | | | |
| R (#/kg) | | ++ | | | | | |
| 3,0 |). 20 – | | | | | | |
| C |). 15 - | | | | - | | |
| C | 0.12- 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5. 0 | | |
| | | | Z (mm) | | | | |
| | | | | | | | |



Page 38 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

GSM 850 Mid-Touch-Left (SIM2) DUT: mobile phone ; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; σ =0.92 mho/m; ϵ r =39.99;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

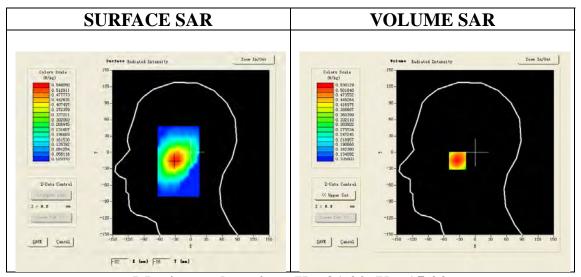
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/GSM850 Mid-Touch-Left /Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid-Touch-Left /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Left head | | | |
| Device Position | Touch | | | |
| Band | GSM850 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

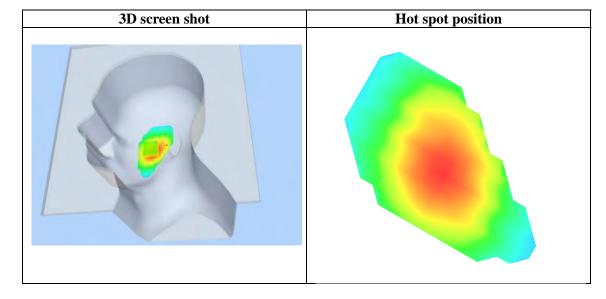


Maximum location: X=-31.00, Y=-15.00

| | , |
|----------------|----------|
| SAR 10g (W/Kg) | 0.369172 |
| SAR 1g (W/Kg) | 0.505589 |

Report No.: AGC06P121101-2S1 Page 39 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|--|--------------|---------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.5396 | 0.4072 | 0.3019 | 0.2365 | | | |
| | SAR, Z Axis Scan ($X = -31$, $Y = -15$) | | | | | | | |
| |). 53 - | | | | | | | |
| - |). 50 - | | | | 1 | | | |
| (|). 45 - | + $+$ | + | | - | | | |
| ⊙@ |). 40 – | | | | | | | |
| Š |). 40 - | | | | | | | |
| |). 30 – | | | | | | | |
| C |). 25 – | | | | - | | | |
| C | 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 | | | |
| | Z (mm) | | | | | | | |
| | | | | | | | | |



Page 40 of 111

Test Laboratory: AGC Lab

GSM 850 Mid- Body-Back

Date: Nov.09,2012

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 53.48$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

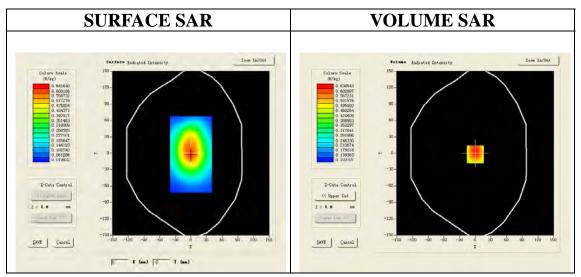
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | |
|------------------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM850 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

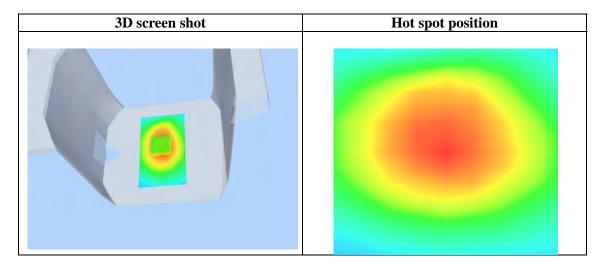


Maximum location: X=0.00, Y=-2.00

| SAR 10g (W/Kg) | 0.442953 | |
|-----------------------|----------|--|
| SAR 1g (W/Kg) | 0.666786 | |

Report No.: AGC06P121101-2S1 Page 41 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|------------------------------------|-------------|--------------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.6357 | 0.4483 | 0.3154 | 0.2279 | | | |
| | SAR, Z Axis Scan $(X = 0, Y = -2)$ | | | | | | | |
| 0 | 0.6- | | | | | | | |
| | | | | | | | | |
| 0 |).5- | + | + | \perp | | | | |
| (#/kg) | | | | | | | | |
| | 1.4- | | . | | - | | | |
| SAR U | 1.3- | | | | | | | |
| | | | | | | | | |
| |), 2 -), 2 - | | | | | | | |
| | 0.0 2.5 5 | .0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 | | | |
| | Z (mm) | | | | | | | |
| | | | | | | | | |



Page 42 of 111

Test Laboratory: AGC Lab

Date: Nov.09,2012

GSM 850 Mid- body- Back (2up) DUT: mobile phone; Type: AM213

Communication System: GPRS -2 Slot; Communication System Band: GSM850; Duty Cycle: 1:4.2; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.95 \text{ mho/m}$; $\epsilon r = 53.48$;

 $\rho = 1000 \text{kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

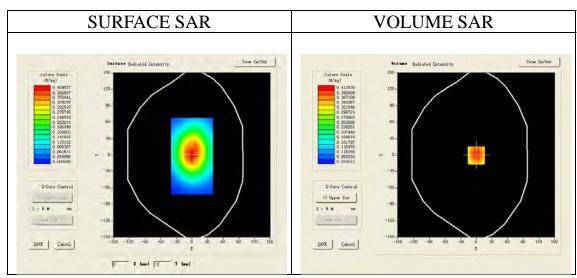
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM850 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 4.0) | | | |

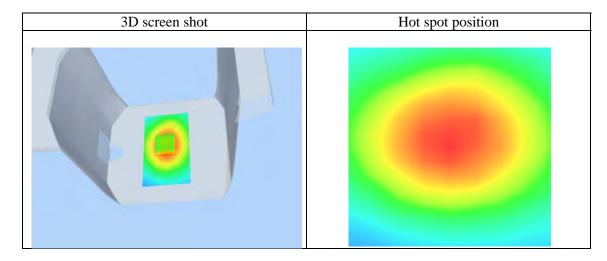


Maximum location: X=0.00, Y=-1.00

| SAR 10g (W/Kg) | 0.296785 | |
|----------------|----------|--|
| SAR 1g (W/Kg) | 0.424596 | |

Report No.: AGC06P121101-2S1 Page 43 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|---|--|--------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.4168 | 0.3054 | 0.2113 | 0.1557 | | |
| | SAR, Z Axis Scan ($X = 0$, $Y = -1$) | | | | | | |
| 0 |). 41 – | | | | | | |
| c |). 35 - | \mathbb{N} | | | | | |
| /kg) |). 30 – | $\vdash \land$ | | | | | |
| ≈ |). 25 - | | | | - | | |
| SAR |). 20 - | + | | | | | |
| C |). 15- | | ++ | | | | |
| C | 0.11- 0.0 2.5 5 | | 12 5 15 0 17 | 5 20.0 22.5 25 | 50 | | |
| | Z (mm) | | | | | | |
| | | | | | | | |



Page 44 of 111

Test Laboratory: AGC Lab

Date: Nov.09,2012

GPRS 850 Mid-Body-back (3up)

DUT: mobile phone; Type: AM213

Communication System: GPRS -3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 53.48$;

 $\rho = 1000 \text{kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

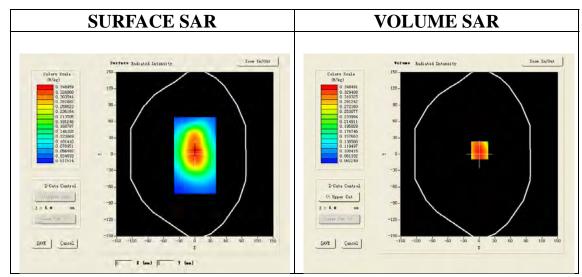
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | |
|-----------------|--------------------------------------|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | |
| Phantom | Validation plane | | |
| Device Position | Body | | |
| Band | GSM850 | | |
| Channels | Middle | | |
| Signal | TDMA (Crest factor:2.7) | | |

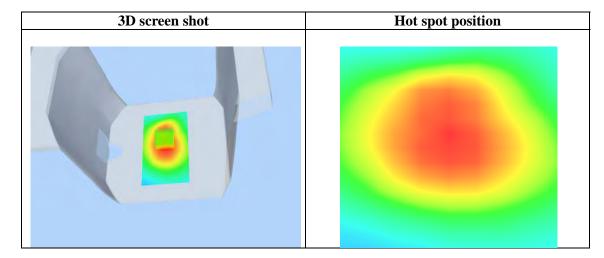


Maximum location: X=1.00, Y=7.00

| SAR 10g (W/Kg) | 0.256827 | |
|----------------|----------|--|
| SAR 1g (W/Kg) | 0.368635 | |

Report No.: AGC06P121101-2S1 Page 45 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|---------------------------------|--------|---------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.3468 | 0.2524 | 0.1934 | 0.1496 | | | |
| | SAR, Z Axis Scan (X = 1, Y = 7) | | | | | | | |
| C |). 35 - | | | | | | | |
| C |). 30 - | | | | - | | | |
| (#/kg) |). 25 – | | | | - | | | |
| |). 20 - | | | | | | | |
| C |). 15 – | | | | | | | |
| O | 0.10 - 0.0 2.5 5 | | 12.5 15.0 17. | 5 20.0 22.5 25 | 5. 0 | | | |
| Z (mm) | | | | | | | | |
| | | | | | | | | |



Date: Nov.09,2012

Page 46 of 111

Test Laboratory: AGC Lab GPRS 850 Mid-body-Back (4up) DUT: mobile phone; Type: AM213

Communication System: GPRS -4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 53.48$;

 $\rho = 1000 \text{kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

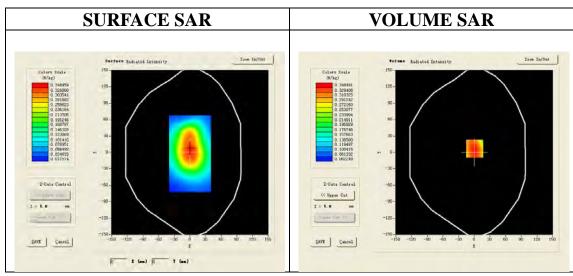
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GPRS850 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GPRS850 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | |
|-----------------|--------------------------------------|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | |
| Phantom | Validation plane | | |
| Device Position | Body | | |
| Band | GSM850 | | |
| Channels | Middle | | |
| Signal | TDMA (Crest factor: 2.0) | | |

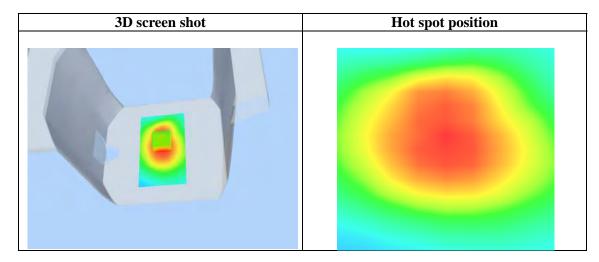


Maximum location: X=1.00, Y=7.00

| SAR 10g (W/Kg) | 0.255683 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.364678 |

Report No.: AGC06P121101-2S1 Page 47 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
|------------|------------------|--------------|---------------|----------------|--------|
| SAR (W/Kg) | 0.0000 | 0.3456 | 0.2546 | 0.1951 | 0.1446 |
| | SAR, 2 | Axis Sca | n (X = 1, | ¥ = 7) | |
| C |). 35 - | | | | |
| c |). 30 – | | | | - |
| (W/kg) |). 25 - | | | | - |
| |). 20 - | | | | |
| C |). 15 - | | ++ | \checkmark | - |
| C | 0.10 - 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 |
| | Z (mm) | | | | |
| | | | | | |



Page 48 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

GSM 850 Mid- Body- Front (MS) DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 53.48$; $\rho = 1000$ kg/m³:

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

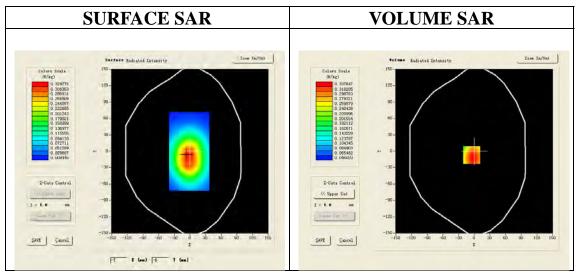
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/GSM850 Mid Body- Front /Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Body- Front Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | |
|-----------------|--------------------------------------|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | |
| Phantom | Validation plane | | |
| Device Position | Body | | |
| Band | GSM850 | | |
| Channels | Middle | | |
| Signal | TDMA (Crest factor: 8.0) | | |

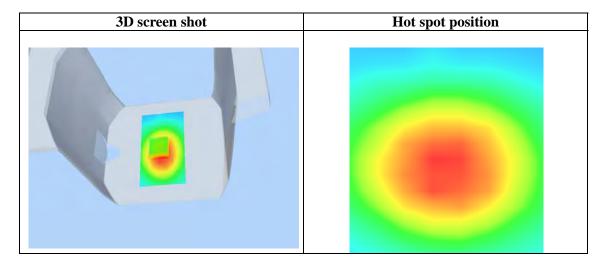


Maximum location: X=-5.00, Y=-7.00

| SAR 10g (W/Kg) | 0.243683 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.353461 |

Report No.: AGC06P121101-2S1 Page 49 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|-------------------------------------|-------------------|---------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.3366 | 0.2489 | 0.1745 | 0.1254 | | |
| | SAR, Z Axis Scan $(X = -5, Y = -7)$ | | | | | | |
| 0 |). 34 – | | | | | | |
| C |). 30 – | \longrightarrow | | | - | | |
| () () | 1. 25 - | $+$ \downarrow | | | - | | |
|) S |). 20 - | | $\overline{}$ | | - | | |
| , š |). 15 - | | | | | | |
| | | | | | | | |
| О | 0.09 - | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 | | |
| | Z (mm) | | | | | | |
| | | | | | | | |



Page 50 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

GSM 850 Mid- Body- Back (MS with earphone)

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=6.79; Frequency: 836.6 MHz; Medium parameters used: f = 850 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 53.48$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

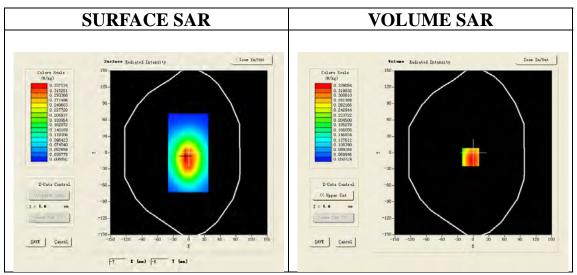
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | |
|-----------------|--------------------------------------|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | |
| Phantom | Validation plane | | |
| Device Position | Body | | |
| Band | GSM850 | | |
| Channels | Middle | | |
| Signal | TDMA (Crest factor: 8.0) | | |

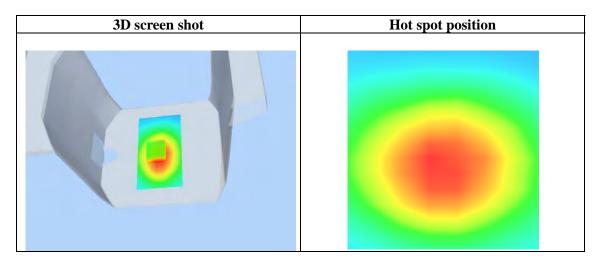


Maximum location: X=-5.00, Y=-8.00

| SAR 10g (W/Kg) | 0.249034 | |
|-----------------------|----------|--|
| SAR 1g (W/Kg) | 0.357642 | |

Report No.: AGC06P121101-2S1 Page 51 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|-------------------------------------|--------|-------------------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.3364 | 0.2379 | 0.1613 | 0.1289 | | |
| | SAR, Z Axis Scan $(X = -5, Y = -8)$ | | | | | | |
| |). 34 - | | | | | | |
| SAR (W/kg) |). 25 – | | | | - | | |
| |). 20 - | | | | | | |
| | | | | | | | |
| | 0.09 - 0.0 0.5 5 | | 12.5 15.0 17. Z (mm) | 5 20.0 22.5 25 | 5.0 | | |
| | | | | | | | |



Page 52 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

PCS 1900 Mid-Touch Left

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.61$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

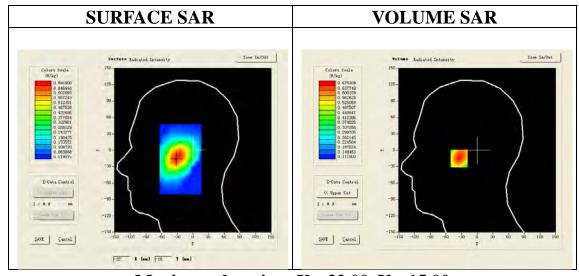
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid Touch-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Left head | | | |
| Device Position | Cheek | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

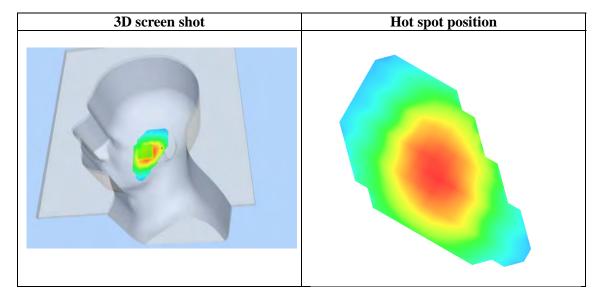


Maximum location: X=-32.00, Y=-15.00

| SAR 10g (W/Kg) | 0.453467 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.645794 |

Report No.: AGC06P121101-2S1 Page 53 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|--|-------------|--------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.6746 | 0.5085 | 0.3745 | 0.2818 | | |
| | SAR, Z Axis Scan ($X = -32$, $Y = -15$) | | | | | | |
| |). 7 - | | | | | | |
| (#/kg) |). 5- | | | | | | |
| SAR |). 4 - | | | | | | |
| |). 2 - | .0 7.5 10.0 | 12 5 15 0 17 | 5 20.0 22.5 25 | 50 | | |
| | Z (mm) | | | | | | |
| | | | | | | | |



Date: Nov.09,2012

Page 54 of 111

Test Laboratory: AGC Lab PCS 1900 Mid-Tilt-Left

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.61$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

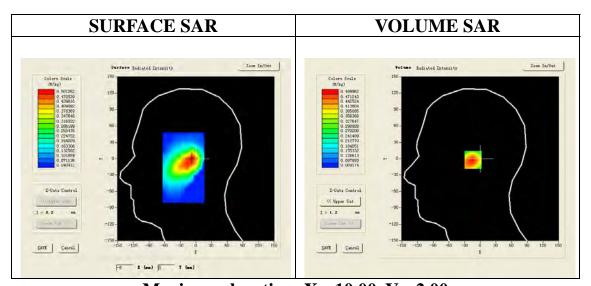
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid Tilt-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Left head | | | |
| Device Position | Tilt | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

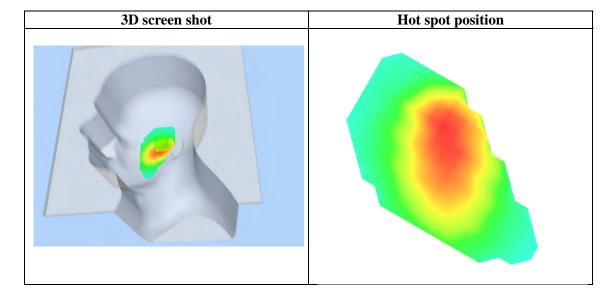


Maximum location: X=-10.00, Y=-2.00

| SAR 10g (W/Kg) | 0.324889 | |
|----------------|----------|--|
| SAR 1g (W/Kg) | 0.477637 | |

Report No.: AGC06P121101-2S1 Page 55 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|--------------------------------------|-------------------|---------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.5087 | 0.3479 | 0.2534 | 0.1959 | | |
| | SAR, Z Axis Scan $(X = -10, Y = -2)$ | | | | | | |
| 0 |). 50 – | | | | | | |
| C |). 45 - | \longrightarrow | | | - | | |
| 20 |). 40 - | + | | | - | | |
| (#/kg) |). 35 - | ++ | | | - | | |
| |). 30 – | | $\overline{}$ | | - | | |
| |). 25 - | | | | - | | |
| |). 20 - | | + | | - | | |
| 0 | 0.16- 0.0 2.5 5 | | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 | | |
| | | | Z (mm) | | | | |
| | | | | | | | |



Page 56 of 111

Test Laboratory: AGC Lab
PCS 1900 Mid-Touch Right
Date: Nov.09,2012

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.61$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

· Sensor-Surface: 4mm (Mechanical Surface Detection)

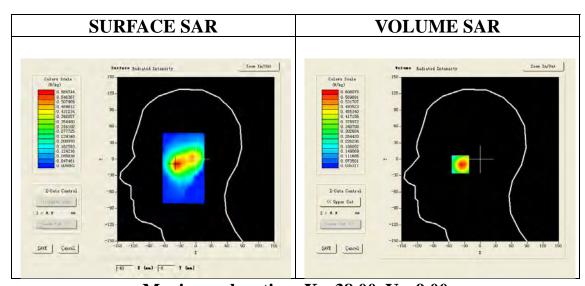
· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid Touch-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Touch-Right/Zoom Scan: Measurement grid: dx=8mm,

dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Right head | | | |
| Device Position | Cheek | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

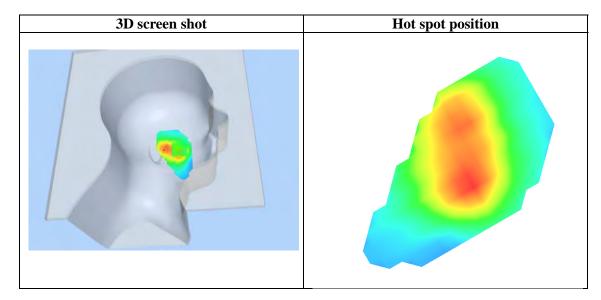


Maximum location: X=-38.00, Y=-9.00

| SAR 10g (W/Kg) | 0.353476 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.578655 |

Report No.: AGC06P121101-2S1 Page 57 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|------------------------------------|--------|------------------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.6053 | 0.4098 | 0.2856 | 0.2048 | | | |
| o | SAR, Z Axis Scan (X = -38, Y = -9) | | | | | | | |
| | 1.5- | | | | | | | |
| SAR (W/kg) | 1.3- | | | | | | | |
| | 1.2- | | | | | | | |
| | 0.0 2.5 5 | | 12.5 15.0 17.9 (mm) | 5 20.0 22.5 25 | 5. 0 | | | |



Date: Nov.09,2012

Page 58 of 111

Test Laboratory: AGC Lab PCS 1900 Mid-Tilt Right

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.61$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

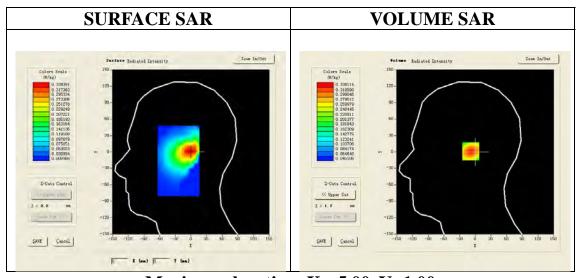
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Right head | | | |
| Device Position | Tilt | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

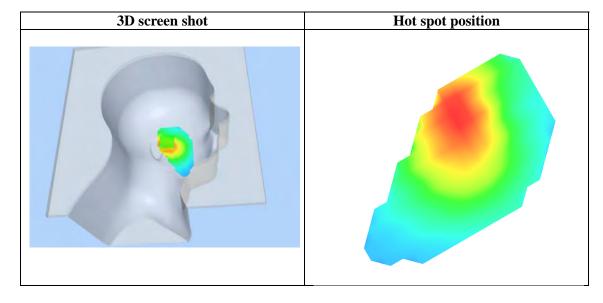


Maximum location: X=-5.00, Y=1.00

| SAR 10g (W/Kg) | 0.215724 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.324556 |

Report No.: AGC06P121101-2S1 Page 59 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|------------------------------------|--------|-------------------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.3364 | 0.2358 | 0.1675 | 0.1164 | | | |
| | SAR, Z Axis Scan $(X = -5, Y = 1)$ | | | | | | | |
| |). 34 - | | | | | | | |
| /kg) |). 25 - | | | | | | | |
| |). 25 - | | | | | | | |
| |). 15 - | | | | | | | |
| C | 0.09 - 0.0 2.5 5 | | 12.5 15.0 17. Z (mm) | 5 20.0 22.5 25 | 5.0 | | | |
| | | | | | | | | |



Page 60 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

PCS 1900 Middle-touch-Left <SIM 2> DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.42$ mho/m; $\epsilon r = 39.61$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

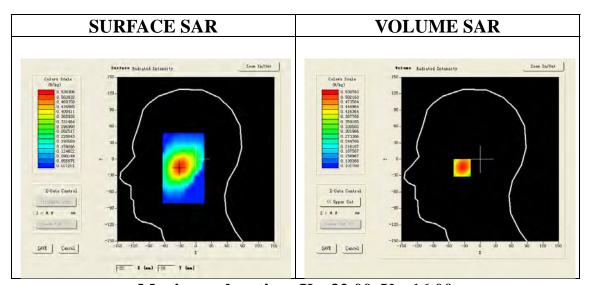
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Middle-touch-Left /Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Middle-touch-Left /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | sam_direct_droit2_surf8mm.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Left head | | | |
| Device Position | Touch | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

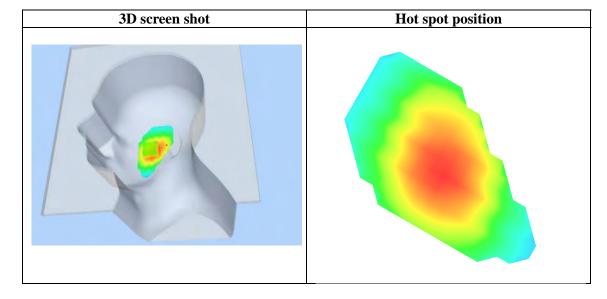


Maximum location: X=-32.00, Y=-16.00

| SAR 10g (W/Kg) | 0.367865 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.516667 |

Report No.: AGC06P121101-2S1 Page 61 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|--|--------------|---------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.5378 | 0.4191 | 0.3156 | 0.2446 | | | |
| | SAR, Z Axis Scan ($X = -32$, $Y = -16$) | | | | | | | |
| |). 53 –). 50 – | | | | | | | |
| |). 45 – | + | | | | | | |
| (/kg) |). 40 - | | | | | | | |
| |). 35 - | | | | | | | |
| |). 25 – | | | | | | | |
| | | | | | | | | |
| | 0.18- 0.0 2.5 5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | o | | | |
| | Z (mm) | | | | | | | |
| | | | | | | | | |



Page 62 of 111

Test Laboratory: AGC Lab
PCS 1900 Mid-Body Back
Date: Nov.09,2012

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.88$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

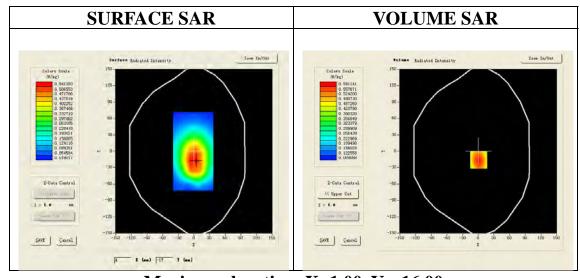
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |

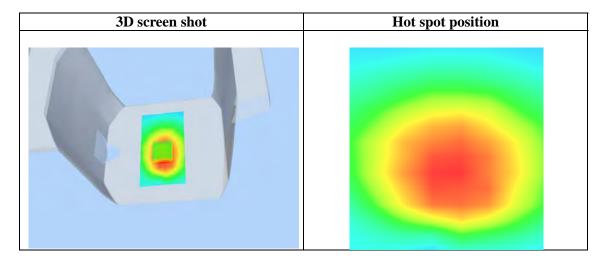


Maximum location: X=1.00, Y=-16.00

| SAR 10g (W/Kg) | 0.403124 | |
|----------------|----------|--|
| SAR 1g (W/Kg) | 0.613565 | |

Report No.: AGC06P121101-2S1 Page 63 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|-----------------------------------|--------|--------|----------------|----------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.5985 | 0.3958 | 0.2746 | 0.1949 | | | |
| | SAR, Z Axis Scan (X = 1, Y = -16) | | | | | | | |
| C |). 6 - | | | | | | | |
| C |). 5 - | | | | | | | |
| (#/kg) |). 4 – | + | | | | | | |
| SAR |). 3- | | | | | | | |
| c |). 2 - | | + | | | | | |
| C | 0.1- 0.0 2.5 5 | | | 5 20.0 22.5 25 | , , o | | | |
| | Z (mm) | | | | | | | |
| | | | | | | | | |



Date: Nov.09,2012

Page 64 of 111

Test Laboratory: AGC Lab PCS 1900 Mid-Body Back (2up) DUT: mobile phone; Type: AM213

Communication System: GPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2; Conv.F=6.42;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.88$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

. Probe:SSE5; Calibrated: 12/09/2011

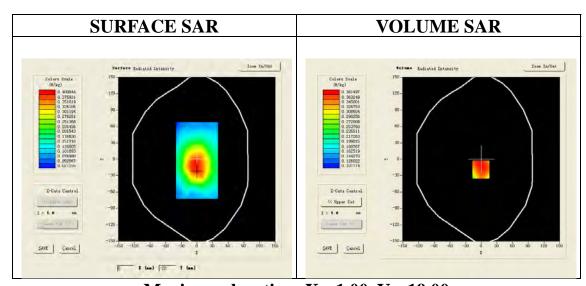
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5m;

| Area Scan | surf_sam_plan.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 4.0) | | | |

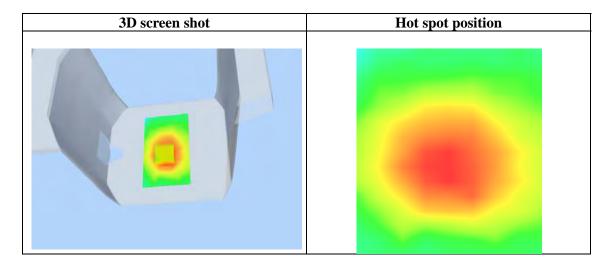


Maximum location: X=-1.00, Y=-19.00

| SAR 10g (W/Kg) | 0.308945 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.403553 |

Report No.: AGC06P121101-2S1 Page 65 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|--|--------|--|--------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.3732 | 0.2834 | 0.2231 | 0.1969 | | | |
| | SAR, Z Axis Scan ($X = -1$, $Y = -19$) | | | | | | | |
| |). 38 - | | | | | | | |
| 0 |), 35 – | | | | | | | |
| (5) |). 30 – | + | | | - | | | |
| | | \ | | | | | | |
| SAR |). 25 - | | | | | | | |
| C |). 20 - | | + | | - | | | |
| 0 |). 16 - | | | | 1 _ | | | |
| | 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm) | | | | | | | |
| | | | | | | | | |



Page 66 of 111

Test Laboratory: AGC Lab

Date: Nov.09,2012

PCS 1900 Mid-Body Back (3up) DUT: mobile phone; Type: AM213

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle:1:2.8; Conv.F=6.42;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.88$

 $\rho = 1000 \text{kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

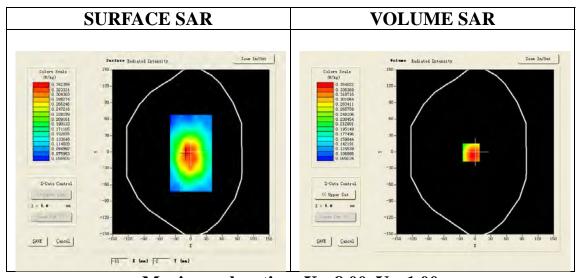
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 2.7) | | | |

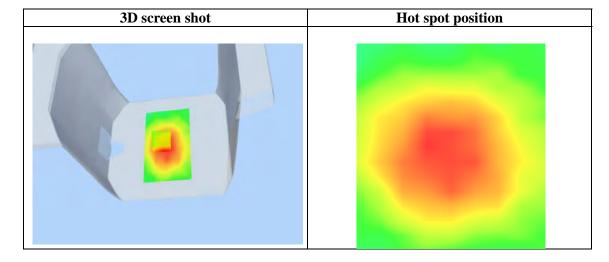


Maximum location: X=-8.00, Y=-1.00

| SAR 10g (W/Kg) | 0.278655 | |
|----------------|----------|--|
| SAR 1g (W/Kg) | 0.375666 | |

Report No.: AGC06P121101-2S1 Page 67 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | |
|------------|----------|---------------------|-------------------|----------------|--------|--|
| SAR (W/Kg) | 0.0000 | 0.3586 | 0.2467 | 0.1834 | 0.1642 | |
| | SAR, Z | Axis Scan | (X = -8, | y = −1) | | |
| 0 |). 352 – | | | | - | |
| 0 |). 325 – | $\lambda + \lambda$ | | | | |
| |). 300 – | \perp | | | | |
| | | \perp | | | | |
| (* 80 |). 275 – | | | | | |
| |). 225 - | + | \longrightarrow | | | |
| |). 200 – | | | | | |
| 0 |). 175 – | | | | | |
| 0 |). 148 - | | | | | |
| | 0.0 2.5 | 5.0 7.5 10.0 | 12.5 15.0 17. | 5 20.0 22.5 25 | 5.0 | |
| | Z (mm) | | | | | |
| | | | | | | |



Page 68 of 111

Test Laboratory: AGC Lab

Date: Nov.09,2012

PCS 1900 Mid-Body Back (4up) DUT: mobile phone; Type: AM213

Communication System: GPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:1:2.1; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.88$;

 $\rho = 1000 \text{kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

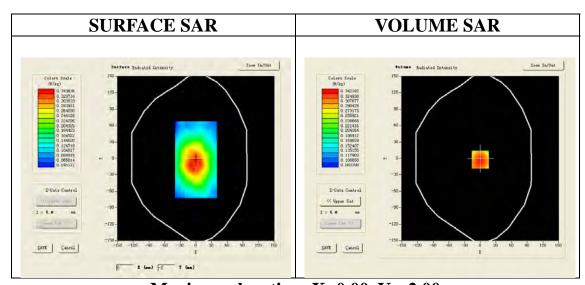
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 2.0) | | | |



Maximum location: X=0.00, Y=-2.00

| SAR 10g (W/Kg) | 0.260674 | | |
|----------------|----------|--|--|
| SAR 1g (W/Kg) | 0.353456 | | |

Report No.: AGC06P121101-2S1 Page 69 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | | |
|------------|------------------------------------|--------------|-------------------------|----------------|--------|--|--|--|
| SAR (W/Kg) | 0.0000 | 0.3454 | 0.2652 | 0.2027 | 0.1556 | | | |
| | SAR, Z Axis Scan $(X = 0, Y = -2)$ | | | | | | | |
| C |). 34 – | V | | | | | | |
| C |). 30 - | \mathbb{N} | | | | | | |
| (#/kg) | | | | | | | | |
| SAR |). 20 - | | | | - | | | |
| |). 15 -). 13 - | | | | - | | | |
| | 0.0 2.5 5 | | 12.5 15.0 17. Z (mm) | 5 20.0 22.5 25 | 5.0 | | | |
| | | | | | | | | |



Page 70 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

PCS 1900 Mid-Body -Front (MS) DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.88$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

Sensor-Surface: 4mm (Mechanical Surface Detection)

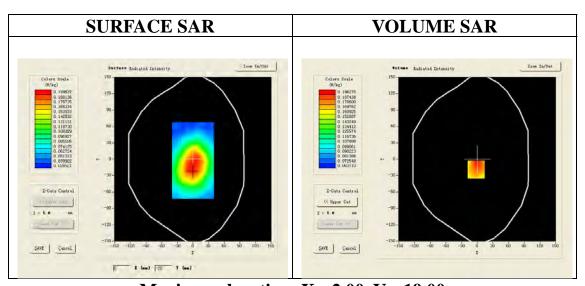
· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4 02 01

Configuration/PCS1900 Mid Body- Front /Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Body- Front /Zoom Scan: Measurement grid: dx=8mm,

dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | | |
|-----------------|--------------------------------------|--|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | | |
| Phantom | Validation plane | | | | |
| Device Position | Body | | | | |
| Band | GSM1900 | | | | |
| Channels | Middle | | | | |
| Signal | TDMA (Crest factor: 8.0) | | | | |

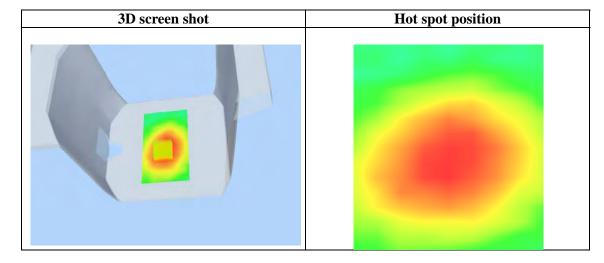


Maximum location: X=-2.00, Y=-19.00

| SAR 10g (W/Kg) | 0.158675 | | |
|----------------|----------|--|--|
| SAR 1g (W/Kg) | 0.205677 | | |

Report No.: AGC06P121101-2S1 Page 71 of 111

| Z (mm) | 0.00 | | 4.00 | 9.00 | 0 | 14.00 | 19.00 |
|------------|---------|--------|----------|-------------|---------------|------------------|--------|
| SAR (W/Kg) | 0.0000 | 0 | .1856 | 0.1446 | | 0.1157 | 0.0967 |
| | SAR, 2 | Z Axis | Scan | (X = - | -2, Y | ′ = −19) | |
| C |). 18- | | 1 1 | | | | |
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| C | 0.08- | | | | | | . |
| | | 5.0 1 | 7.5 10.0 | 12.5 15. | 0 17.5 | 20.0 22.5 2 | 5.0 |
| Z (nm) | | | | | | | |
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Page 72 of 111

Test Laboratory: AGC Lab Date: Nov.09,2012

PCS 1900 Mid-Body- Back (MS with earphone)

DUT: mobile phone; Type: AM213

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 52.88$;

 $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.0, Liquid temperature ($^{\circ}$ C): 21.0

Satimo Configuration:

· Probe:SSE5; Calibrated: 12/09/2011

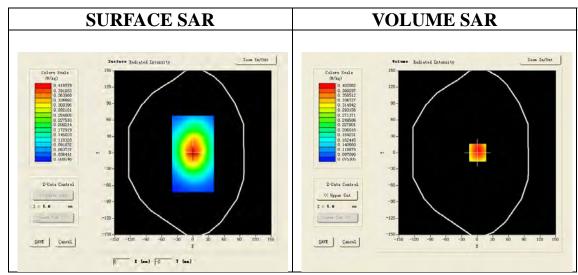
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM1; Type: SAM

· Measurement SW: OpenSAR V4_02_01

Configuration/PCS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm Configuration/PCS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

| Area Scan | surf_sam_plan.txt | | | |
|-----------------|--------------------------------------|--|--|--|
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Very fast | | | |
| Phantom | Validation plane | | | |
| Device Position | Body | | | |
| Band | GSM1900 | | | |
| Channels | Middle | | | |
| Signal | TDMA (Crest factor: 8.0) | | | |



Maximum location: X=1.00, Y=0.00

| SAR 10g (W/Kg) | 0.287895 |
|-----------------------|----------|
| SAR 1g (W/Kg) | 0.425698 |

Report No.: AGC06P121101-2S1 Page 73 of 111

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | | |
|------------|---------------------------------|-------------------|--------------|----------------|--------|--|--|
| SAR (W/Kg) | 0.0000 | 0.4054 | 0.2849 | 0.2086 | 0.1428 | | |
| | SAR, Z Axis Scan (X = 1, Y = 0) | | | | | | |
| C |). 40 - | | | | - | | |
| c |). 35 - | \longrightarrow | | | - | | |
| /kg) |). 30 - | | | | - | | |
| ළි (|). 25 - | + | + | -+- | - | | |
| SAR |). 20 - | | | | | | |
| C |). 15- | | ++ | | - | | |
| 0 | 0.11- 0.0 2.5 5 | | 12 5 15 0 17 | 5 20.0 22.5 25 | 5.0 | | |
| | Z (mm) | | | | | | |
| | | | | | | | |

