



FCC SAR TEST REPORT

Report No: STS1412042H01

Issued for

DaNo Mobile com LTD

Mail box 1010 Karmiel, isreal

| Product Name: | Flip old man phone | | | | | |
|----------------|-----------------------------|--|--|--|--|--|
| Brand Name: | DaNo | | | | | |
| Model No.: | 1534 | | | | | |
| Series Model: | odel: N/A | | | | | |
| FCC ID: | ID: 2ADWD- 1534 | | | | | |
| | ANSI/IEEE Std. C95.1 | | | | | |
| Test Standard: | FCC 47 CFR Part 2 (2.1093) | | | | | |
| | IEEE 1528: 2013 | | | | | |
| Mary CAR (4) | Head:0.809 W/kg | | | | | |
| Max. SAR (1g): | Body:0.776 W/kg | | | | | |

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Shenzhen STS Test Services Co., Ltd.

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Test Report Certification

Applicant's name: DaNo Mobile com LTD

Address Mail box 1010 Karmiel ,isreal

Manufacture's Name.....: ZINI MOBILES LIMITED

Address: 2nd floor, Tower A, No, 111, Pinshun Rd, Guanlan, Longhua, Shenzhen,

China

Product description

Product name: Flip old man phone

Trademark: DaNo
Model and/or type reference : I534
Serial Model : N/A

Standards : ANSI/IEEE Std. C95.1-1992

FCC 47 CFR Part 2 (2.1093)

IEEE 1528: 2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test

Date (s) of performance of tests 23 Dec.. 2014

Date of Issue...... 25 Dec.. 2014

Test Result...... Pass

Testing Engineer :

(Tony Liu)

Technical Manager:

(Vita Li)

Authorized Signatory:

(Bovey Yang)







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1. General Information

1.1 EUT Description

| Equipment | Flip old man phone | | | | | | |
|------------------|--|---|--|--|--|--|--|
| Brand Name | DaNo | | | | | | |
| Model No. | 1534 | | | | | | |
| Serial Model | N/A | | | | | | |
| FCC ID | 2ADWD- I534 | | | | | | |
| Model Difference | N/A | | | | | | |
| Adapter | Input: AC100-240V, 0.4A, 50/60 Hz Output: DC 5V, 1000mA | | | | | | |
| | Rated Voltage: 3.7V | | | | | | |
| Battery | Charge Limit: 4.2V | | | | | | |
| | Capacity: 800mAh | | | | | | |
| Hardware Version | N/A | | | | | | |
| Software Version | N/A | | | | | | |
| | GSM 850: 824.2 ~ 848.8 MHz | | | | | | |
| Frequency Range | PCS1900: 1850.2 ~ 1909.8 MHz | | | | | | |
| | Bluetooth: 2402~2480MHz | | | | | | |
| Transmit | GSM 850: 32.60dBm | | | | | | |
| Power(MAX): | GSM 1900: 24.23dBm | | | | | | |
| Power(IVIAA). | Bluetooth: 2.537dBm | | | | | | |
| Max. Reported | Head: | Body: | | | | | |
| SAR(1g): | GSM 850: 0.809 W/kg | GSM 850: 0.359 W/kg | | | | | |
| SAK(1g). | GSM 1900: 0.579 W/kg | GSM 1900: 0.776 W/kg | | | | | |
| Operating Made | GSM: GSM Voice | | | | | | |
| Operating Mode: | Bluetooth: V1.2 (GFSK) | | | | | | |
| Antenna | GSM: PIFA Antenna | | | | | | |
| Specification: | Bluetooth: Dipole Antenna | | | | | | |
| SIM Card | '' | Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time | | | | | |
| Hotspot Mode: | Not Support | | | | | | |
| DTM Mode: | Not Support | | | | | | |





Ambient conditions in the SAR laboratory:

| Items | Required | Actual | |
|------------------|----------|--------|--|
| Temperature (°C) | 18-25 | 22~23 | |
| Humidity (%RH) | 30-70 | 55~65 | |

1.3 Test Facility

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong,

Baoan District, Shenzhen, China

FCC Registration No.: 842334;IC Registration No.: 12108A-1





2. Test Standards And Limits

| No. | Identity | Document Title |
|-----|---------------------------|---|
| 1 | 47 CFR Part 2 | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2 | ANSI/IEEE Std. C95.1-1992 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz |
| 3 | IEEE Std. 1528-2013 | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques |
| 4 | FCC KDB 447498 D01 v05r02 | Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies |
| 5 | FCC KDB 865664 D01 v01r03 | SAR Measurement 100 MHz to 6 GHz |
| 6 | FCC KDB 865664 D01 v01r03 | SAR Measurement 100 MHz to 6 GHz |
| 7 | FCC KDB 941225 D01 | SAR Measurement Procedures for 3G Devices |
| 8 | FCC KDB 248227 D01 | SAR Measurement Procedures for 802.11 a/b/g Transmitters |

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

(A). Limits for Occupational/Controlled Exposure (W/kg)

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4 | 8.0 | 20.0 |

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 10 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg



3. SAR Measurement System

3.1 Definition Of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

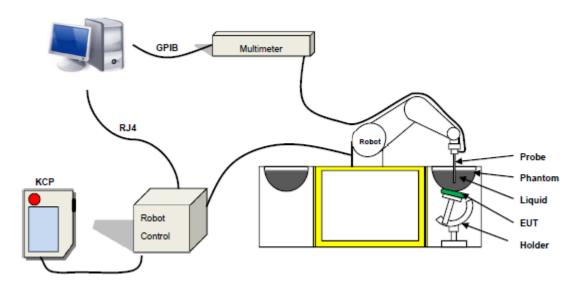
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

SATIMO SAR System Diagram:



Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue



The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 17/14 EP221 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter :5 mm
- Distance between probe tip and sensor center: 2.7mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
- Probe linearity: < 0.25 dB
- Axial Isotropy: < 0.25 dB
- Spherical Isotropy: < 0.25 dB
- Calibration range: 450MHz to 2600MHz for head & body simulating liquid. Angle between probe axis (evaluation axis) and suface normal line:less than 30°



Figure 1 - Satimo COMOSAR Dosimetric E field Dipole



3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



SN 32/14 SAM116

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of \pm 0.5 mm would produce a SAR uncertainty of \pm 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.4. Tissue Simulating Liquids



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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.

LIQUID MEASUREMENT RESULTS

Date: Dec.23, 2014 Ambient condition: Temperature 22.7°C Relative humidity: 49%

| Head Simulating Liquid | | Parameters | Target | Measured | Deviation[%] | Limited[%] | |
|------------------------|---------------|---------------|--------|----------|--------------|------------|--|
| Frequency | Temp. [°C] | | | | | | |
| 835 MHz | 22.30 | Permitivity: | 41.50 | 41.27 | -0.55 | ±5 | |
| 033 WII 12 | | Conductivity: | 0.90 | 0.91 | 1.11 | ± 5 | |
| 1900 MHz | 22.30 | Permitivity: | 40.00 | 39.57 | -1.07 | ± 5 | |
| | | Conductivity: | 1.40 | 1.403 | 0.21 | ± 5 | |

| Body Simulating Liquid | | D | Tanad | Manageral | Deviation[%] | 1 2 2 150/ 1 | |
|------------------------|---------------|---------------|--------|-----------------|--------------|--------------|--|
| Frequency | Temp. [°C] | Parameters | Target | Target Measured | | Limited[%] | |
| 835 MHz | 22.30 | Permitivity: | 55.20 | 55.50 | 0.54 | ± 5 | |
| 000 111112 | 22.00 | Conductivity: | 0.97 | 0.96 | -1.03 | ± 5 | |
| 1900 MHz | 22.30 | Permitivity: | 53.30 | 51.68 | -3.04 | ± 5 | |
| 1000 1411 12 | | Conductivity: | 1.52 | 1.51 | 0.66 | ± 5 | |

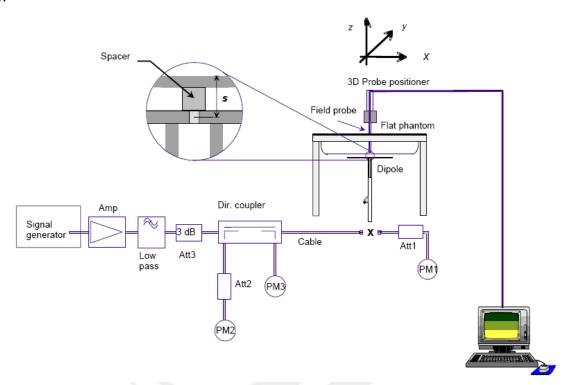




5.1 Validation System

Each SATIMO system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %.

Ambient condition: Temperature 22.7°C Relative humidity: 49%

| Freq.(MHz) | Power(mW) | Tested Value (W/Kg) | ue SAR Target(W/Kg) | | Tolerance(%) | Date |
|------------|-----------|---------------------------|---------------------|-------|--------------|------------|
| 835 Head | 100 | 0.937 | 9.37 | 9.71 | -3.50 | 2014-12-23 |
| 835 Body | 100 | 0.968 | 9.68 | 10.19 | -5.00 | 2014-12-23 |
| 1900 Head | 100 | 3.840 | 38.4 | 40.01 | -4.02 | 2014-12-23 |
| 1900 Body | 100 | 4.142 | 41.42 | 40.32 | 2.73 | 2014-12-23 |

Note: The tolerance limit of System validation ±10%.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps: The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

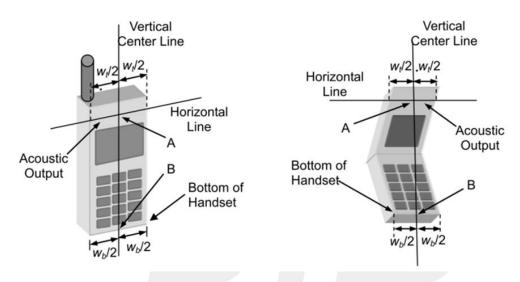


7. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

7.1 Define Two Imaginary Lines On The Handset

- (1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3)The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1)To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2)To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



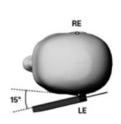
Title Position

- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



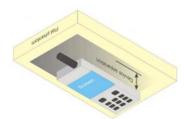






Body-worn Position Conditions

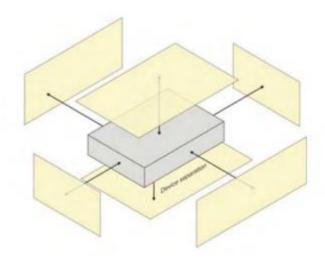
- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





7.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm(instead of 10mm)is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration(surface).





8. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2003. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

| NO | Source | Tol(%) | Prob. Dist. | Div. k | ci (1g) | ci (10g) | 1gUi | 10gUi | Veff | |
|-------------------|---|--------|----------------|-----------|-----------------------|-----------------------|------|-------|------|--|
| Measurenert Sciem | | | | | | | | | | |
| 1 | Probe calibration | 5.8 | N | 1 | 1 | 1 | 5.8 | 5.8 | 8 | |
| 2 | Axial isotropy | 3.5 | R | √3 | (1-cp) ^{1/2} | (1-cp) ^{1/2} | 1.43 | 1.43 | 8 | |
| 3 | Hemispherical isotropy | 5.9 | R | √3 | √Cp | √Cp | 2.41 | 2.41 | 8 | |
| 4 | Boundary effect | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | 8 | |
| 5 | Linearity | 4.7 | R | √3 | 1 | 1 | 2.71 | 2.71 | 8 | |
| 6 | System Detection limits | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | 8 | |
| 7 | Readout electronics | 0.5 | N | 1 | 1 | _1 | 0.50 | 0.50 | 8 | |
| 8 | Response time | 0 | R | √3 | 1 | 1 | 0 | 0 | 8 | |
| 9 | Integration time | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 8 | |
| 10 | Ambient noise | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | 8 | |
| 11 | Ambient reflections | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | 8 | |
| 12 | Probe positioner mech. restrictions | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 8 | |
| 13 | Probe positioning with respect to phantom shell | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 8 | |
| 14 | Max.SAR evaluation | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | 8 | |
| Test s | ample related | | | | | | | | | |



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|----------------|------------------------------|-----|---|-------------------|------|-----------------------|---------------|------|----|
| | | T | | T | T | T | 1 | Γ | |
| 15 | Device positioning | 2.6 | N | 1 | 1 | 1 | 2.6 | 2.6 | 11 |
| 16 | Device holder | 3 | N | 1 | 1 | 1 | 3.0 | 3.0 | 7 |
| 17 | Drift of output power | 5.0 | R | √3 | 1 | 1 | 2.89 | 2.89 | 8 |
| Phant | om and set-up | | | l | | l | l | | |
| 18 | Phantom uncertainty | 4.0 | R | √3 | 1 | 1 | 2.31 | 2.31 | 8 |
| 19 | Liquid conductivity (target) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | 5 |
| 20 | Liquid conductivity (meas) | 4 | N | 1 | 0.23 | 0.26 | 0.92 | 1.04 | 5 |
| 21 | Liquid Permittivity (target) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | 8 |
| 22 | Liquid Permittivity (meas) | 5.0 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | 8 |
| Comb | Combined standard RSS | | $U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ | | | 10.63% | 10.54% | | |
| Expar (P=95 | nded uncertainty (%) | | | $U = k \ U_C$,k= | 2 | | 21.26% 21.08% | | |



9. Conducted Power Measurement

Test Result:

| Burst Average Power (dBm) | | | | | | | | | |
|---------------------------|-------|---------|-------|----------|--------|--------|--|--|--|
| Band | | GSM 850 | | PCS 1900 | | | | | |
| Channel | 128 | 190 | 251 | 512 | 661 | 810 | | | |
| Frequency (MHz) | 824.2 | 836.6 | 848.8 | 1850.2 | 1880.0 | 1909.8 | | | |
| GSM(GMSK, 1-Slot) | 31.86 | 32.48 | 32.60 | 24.12 | 24.23 | 24.14 | | | |
| GPRS (GMSK, 1-Slot) | / | / | / | / | / | / | | | |
| GPRS (GMSK, 2-Slot) | / | / | / | / | / | / | | | |
| GPRS (GMSK, 3-Slot) | / | / | / | / | / | / | | | |
| GPRS (GMSK, 4-Slot) | / | / | / | / | / | / | | | |

Remark: GPRS, CS4 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link

| Fram- Average Power(dBm) | | | | | | |
|--------------------------|-------|---------|-------|----------|--------|--------|
| Band | | GSM 850 | | PCS 1900 | | |
| Channel | 128 | 190 | 251 | 512 | 661 | 810 |
| Frequency (MHz) | 824.2 | 836.6 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| GSM(GMSK, 1-Slot) | 22.86 | 23.48 | 23.60 | 15.12 | 15.23 | 15.14 |
| GPRS (GMSK, 1-Slot) | 1 | 1 | 1 | / | / | / |
| GPRS (GMSK, 2-Slot) | 1 | / | / | 1 | / | / |
| GPRS (GMSK, 3-Slot) | 1 | 1 | / | 1 | / | / |
| GPRS (GMSK, 4-Slot) | | 1 | 1 | / / | / | / |

Remark:

- 1. SAR testing was performed on the maximum frame-averaged power mode.
- 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 Tx Slots) - 3 dB



| Mode | Channel Number | Frequency (MHz) | PEAK Power (dBm) |
|------|-------------------|--------------------|---------------------|
| GFSK | 0 | 2402 | 1.621 |
| | 39 | 2441 | 2.257 |
| | 78 | 2480 | 2.537 |





Report No.: STS1412042H01



| Mode | GSM850 | GSM1900 |
|---------|---------|---------|
| GSM/PCS | 32±1dBm | 24±1dBm |

| Mode | BT 2.1 |
|------|--------|
| GFSK | 2±1dBm |





11. EUT And Test Setup Photo

11.1 EUT Photo



Front side



The open state





Back side



Top side





Bottom side



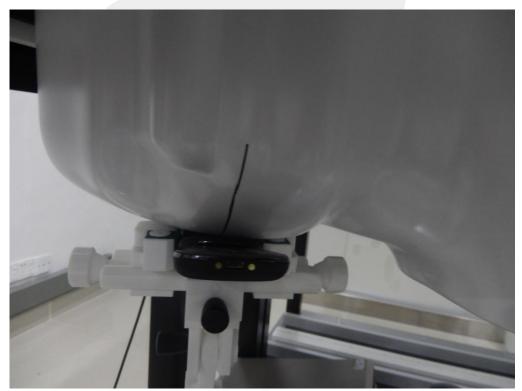
Left side





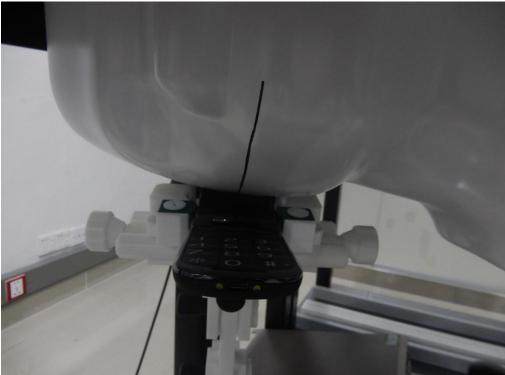
Right side

11.2 Setup Photo



Right Touch



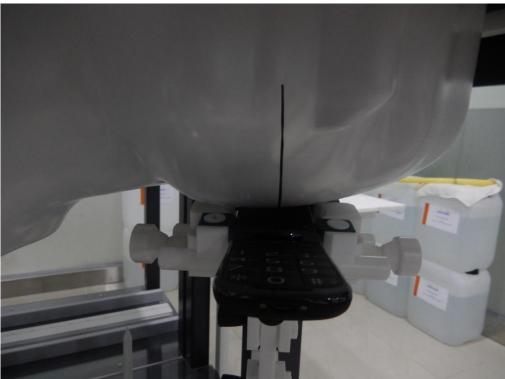


Right Tilt

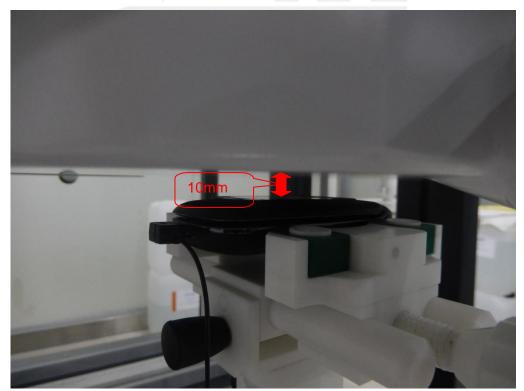


Left Touch



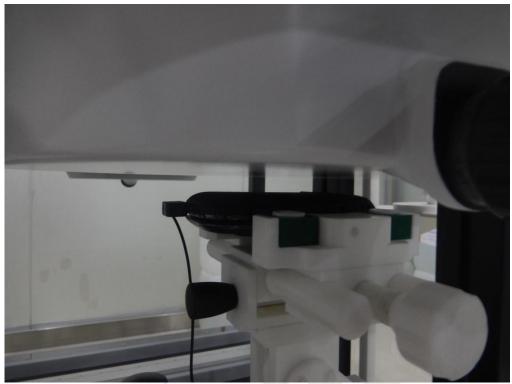


Left Tilt

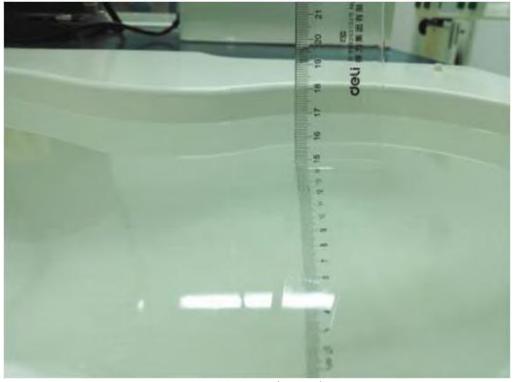


Body Front side





Body Back side



Liquid depth (15 cm)

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12. SAR Result Summary

12.1 Head SAR

| Band | Mode | Test Position | Channel | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Scaled SAR (W/Kg) | Meas. No. |
|---------|---------------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|-------------------------|--------------|
| | | Right Cheek | CH 251 | 0.738 | -2.76 | 33 | 32.60 | 0.809 | 1 |
| GSM 850 | Voice | Right Tilt | CH 251 | 0.430 | -0.54 | 33 | 32.60 | 0.471 | 2 |
| G3W 650 | voice | Left Cheek | CH 251 | 0.582 | 1.80 | 33 | 32.60 | 0.638 | 3 |
| | | Left Tilt | CH 251 | 0.331 | -1.07 | 33 | 32.60 | 0.363 | 4 |
| | | Right Cheek | CH 661 | 0.255 | 2.54 | 25 | 24.23 | 0.304 | 7 |
| GSM1900 | Voice | Right Tilt | CH 661 | 0.054 | -0.84 | 25 | 24.23 | 0.064 | 8 |
| G3W1900 | GSW1900 Voice | Left Cheek | CH 661 | 0.485 | -0.72 | 25 | 24.23 | 0.579 | 9 |
| | | Left Tilt | CH 661 | 0.094 | 0.20 | 25 | 24.23 | 0.112 | 10 |

12.2 Body SAR

| Band | Mode | Test Position | Channel | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Scaled SAR (W/Kg) | Meas. No. |
|---------|-------------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|-------------------------|--------------|
| GSM 850 | Voice | Front side | CH 251 | 0.139 | 0.37 | 33 | 32.60 | 0.152 | 5 |
| G3W 650 | (body-worn) | Back side | CH 251 | 0.327 | -1.97 | 33 | 32.60 | 0.359 | 6 |
| GSM1900 | Voice | Front side | CH 661 | 0.169 | 4.00 | 25 | 24.23 | 0.202 | 11 |
| G3W1900 | voice | Back side | CH 661 | 0.650 | -2.38 | 25 | 24.23 | 0.776 | 12 |

Note:

Two card slot can't work at the same time.

The test separation of all above table is 10mm.



13. Equipment List

| NO. | Instrument | Manufacturer | Model | S/N | Cal. Date | Cal. Due Date |
|-----|-------------------------|--------------|--|--------------------------|------------|---------------|
| 1 | 835MHz Dipole | SATIMO | SID835 | SN 30/14 DIP0G835-332 | 2014.09.01 | 2015.08.31 |
| 2 | 1900MHz Dipole | SATIMO | SID1900 | SN 30/14 DIP1G900-333 | 2014.09.01 | 2015.08.31 |
| 3 | E-Field Probe | SATIMO | SSE5 | SN 17/14 EP221 | 2014.09.01 | 2015.08.31 |
| 4 | Antenna | SATIMO | ANTA3 | SN 07/13 ZNTA52 | 2014.09.01 | 2015.08.31 |
| 5 | Waveguide | SATIMO | SWG5500 | SN 13/14 WGA32 | 2014.09.01 | 2015.08.31 |
| 6 | Phantom1 | SATIMO | SAM | SN 32/14 SAM115 | 2014.09.01 | 2015.08.31 |
| 7 | Phantom2 | SATIMO | SAM | SN 32/14 SAM116 | 2014.09.01 | 2015.08.31 |
| 8 | SAR TEST BENCH | SATIMO | Flip old man phone POSITIONNIN G SYSTEM | SN 32/14 MSH97 | 2014.09.01 | 2015.08.31 |
| 9 | SAR TEST BENCH | SATIMO | LAPTOP POSITIONNIN G SYSTEM | SN 32/14 LSH29 | 2014.09.01 | 2015.08.31 |
| 10 | Dielectric Probe Kit | SATIMO | SCLMP | SN 32/14 OCPG52 | 2014.09.01 | 2015.08.31 |
| 11 | Multi Meter | Keithley | Multi Meter 2000 | 4050073 | 2014.11.20 | 2015.11.19 |
| 12 | Signal Generator | R&S | SMF100A | 104260 | 2014.10.27 | 2015.10.26 |
| 13 | Power Meter | R&S | NRP | 100510 | 2014.10.25 | 2015.10.24 |
| 14 | Power Sensor | R&S | NRP-Z11 | 101919 | 2014.10.25 | 2015.10.24 |
| 15 | Network Analyzer | R&S | 5071C | EMY46103472 | 2014.12.12 | 2015.12.11 |



Appendix A. System Validation Plots

System Performance Check Data (835MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

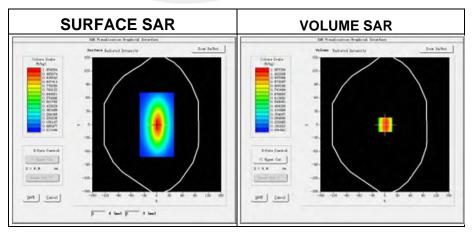
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.12.23

Measurement duration: 13 minutes 27 seconds

Experimental conditions

| Phantom | Validation plane |
|-----------------------------------|------------------|
| Device Position | - |
| Band | 835MHz |
| Channels | - |
| Signal | CW |
| Frequency (MHz) | 835MHz |
| Relative permittivity (real part) | 41.27 |
| Relative permittivity | 18.72 |
| Conductivity (S/m) | 0.91 |
| Power drift (%) | 0.45 |
| Ambient Temperature: | 22.7°C |
| Liquid Temperature: | 22.3°C |
| ConvF: | 4.83 |
| Crest factor: | 1:1 |



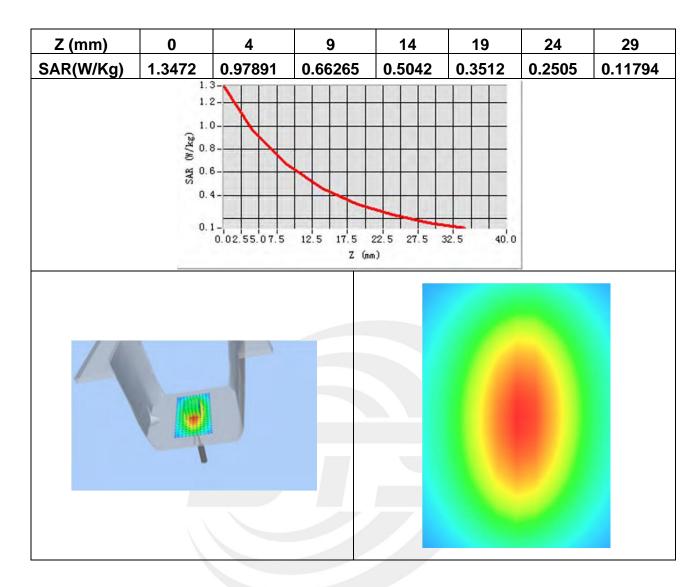
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.46 W/kg

| SAR 10g (W/Kg) | 0.608155 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.93716 |



Z Axis Scan





System Performance Check Data (835MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

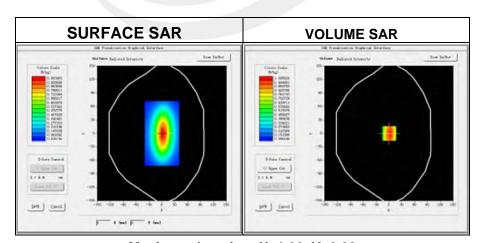
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.12.23

Measurement duration: 14 minutes 13 seconds

Experimental conditions.

| Probe | | | |
|-----------------------------------|------------------|--|--|
| Phantom | Validation plane | | |
| Device Position | - | | |
| Band | 835MHz | | |
| Channels | - | | |
| Signal | CW | | |
| Frequency (MHz) | 835MHz | | |
| Relative permittivity (real part) | 55.50 | | |
| Relative permittivity | 21.408187 | | |
| Conductivity (S/m) | 0.96 | | |
| Power drift (%) | 0.090000 | | |
| Ambient Temperature: | 22.7°C | | |
| Liquid Temperature: | 22.3°C | | |
| ConvF: | 5.02 | | |
| Crest factor: | 1:1 | | |



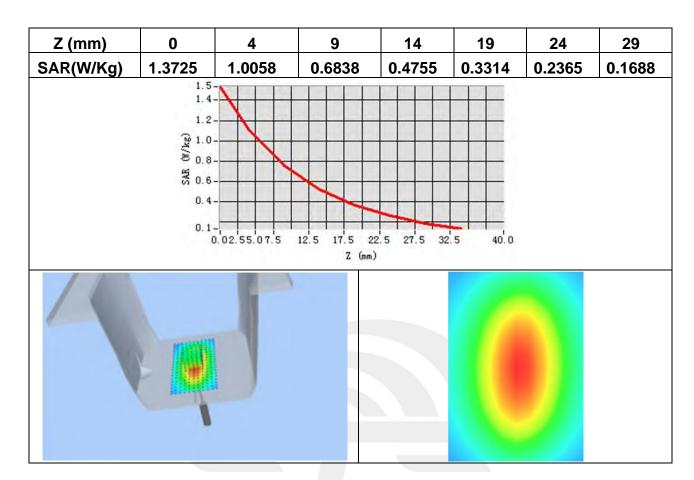
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.48 W/kg

| SAR 10g (W/Kg) | 0.693221 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.967939 |



Z Axis Scan





System Performance Check Data (1900MHz Head)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

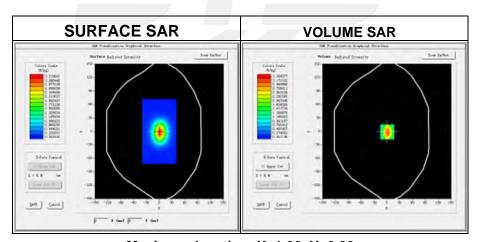
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.12.23

Measurement duration: 14 minutes 12 seconds

Experimental conditions.

| Phantom | Validation plane |
|-----------------------------------|------------------|
| Device Position | - |
| Band | 1900MHz |
| Channels | - |
| Signal | CW |
| Frequency (MHz) | 1900MHz |
| Relative permittivity (real part) | 39.57 |
| Relative permittivity | 13.26 |
| Conductivity (S/m) | 1.40 |
| Power drift (%) | 0.47 |
| Ambient Temperature: | 22.7°C |
| Liquid Temperature: | 22.3°C |
| Probe | SN 17/14 EP221 |
| ConvF: | 4.71 |
| Crest factor: | 1:1 |



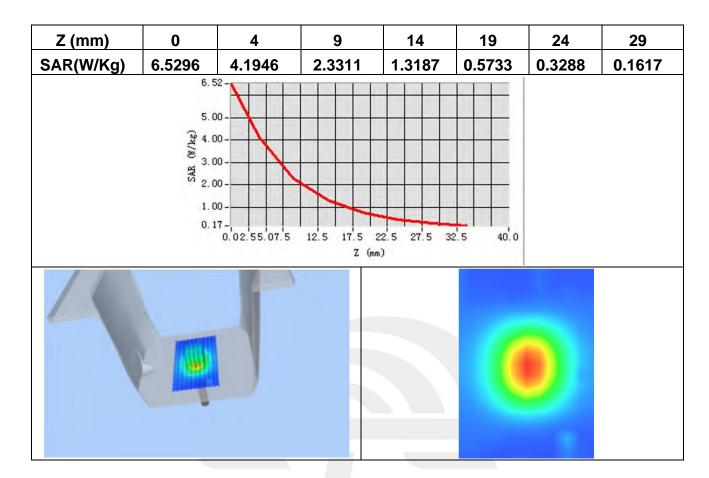
Maximum location: X=1.00, Y=0.00

SAR Peak: 5.39 W/kg

| SAR 10g (W/Kg) | 1.967525 |
|----------------|----------|
| SAR 1g (W/Kg) | 3.840170 |



Z Axis Scan





System Performance Check Data (1900MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

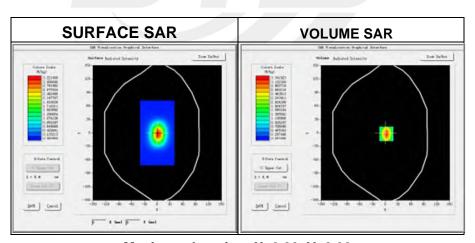
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2014.12.23

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

| Device Position | - |
|-----------------------------------|----------------|
| Band | 1900MHz |
| Channels | - |
| Signal | CW |
| Frequency (MHz) | 1900 |
| Relative permittivity (real part) | 51.68 |
| Relative permittivity | 12.87531 |
| Conductivity (S/m) | 1.51 |
| Power drift (%) | 0.37 |
| Ambient Temperature: | 22.7°C |
| Liquid Temperature: | 22.3°C |
| Probe | SN 17/14 EP221 |
| ConvF: | 4.85 |
| Crest factor: | 1:1 |



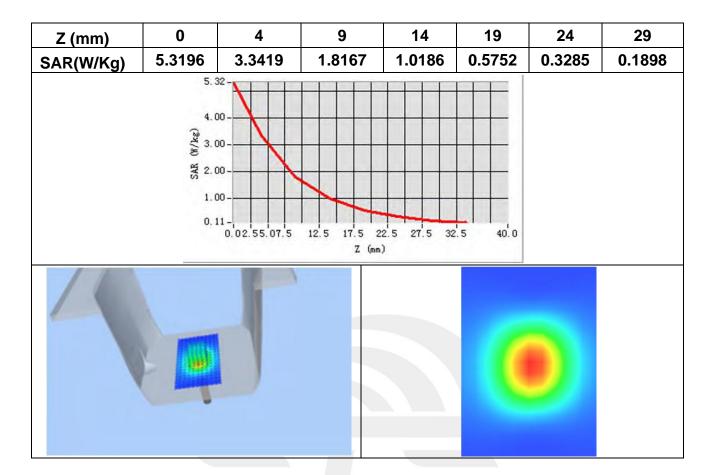
Maximum location: X=2.00, Y=2.00

SAR Peak: 5.27 W/kg

| SAR 10g (W/Kg) | 2.124122 |
|----------------|----------|
| SAR 1g (W/Kg) | 4.141824 |



Z Axis Scan





Appendix B. SAR Test Plots

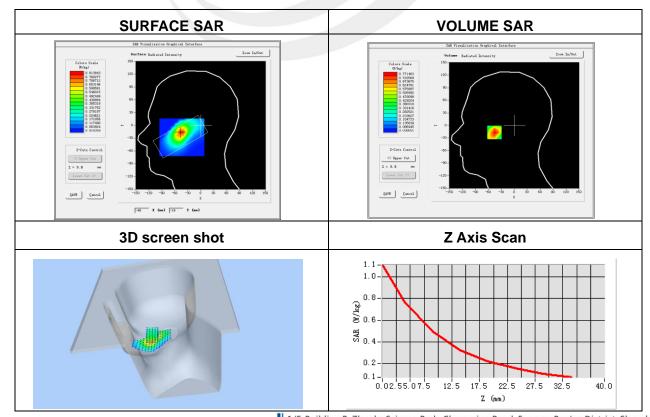
Plot 1: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.83 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomSoon | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| ZoomScan | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Right head |
| Device Position | Cheek |
| Band | GSM850 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 848.8 |
| Relative permittivity (real part) | 41.5 |
| Conductivity (S/m) | 0.90 |
| Variation (%) | -2.76 |

Maximum location: X=-46.00, Y=-16.00

SAR Peak: 1.20W/kg

| SAR 10g (W/Kg) | 0.434366 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.737645 |





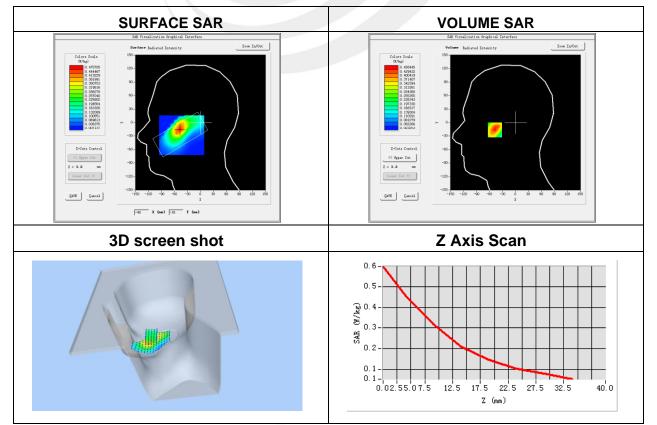
Plot 2: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.83 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| Zoom Soon | 5x5x7,dx=8mmdy=8mmdz=5mm, |
| Zoom Scan | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Right head |
| Device Position | Tilt |
| Band | GSM850 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 848.8 |
| Relative permittivity (real part) | 41.5 |
| Conductivity (S/m) | 0.90 |
| Variation (%) | -0.54 |

Maximum location: X=-48.00, Y=-15.00

SAR Peak: 0.65 W/kg

| SAR 10g (W/Kg) | 0.271506 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.429698 |



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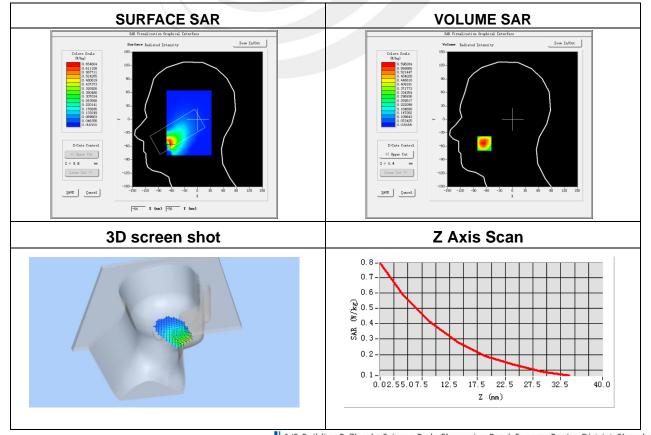


Plot 3: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|---|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.83 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Left head |
| Device Position | Cheek |
| Band | GSM850 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 848.8 |
| Relative permittivity (real part) | 41.5 |
| Conductivity (S/m) | 0.90 |
| Variation (%) | 1.80 |

Maximum location: X=-65.00, Y=-54.00 SAR Peak: 0.87 W/kg

| SAR 10g (W/Kg) | 0.387794 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.582300 |



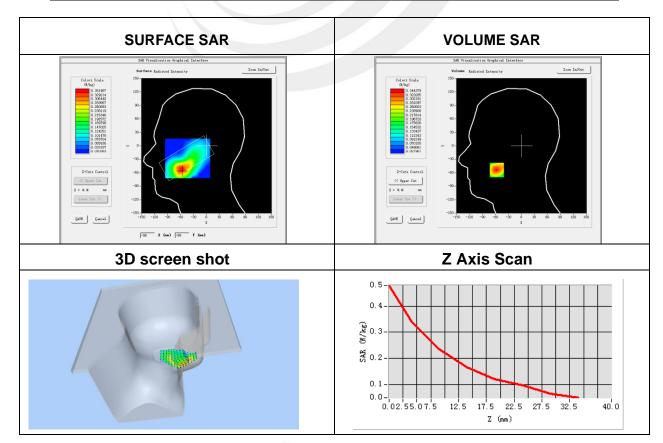


Plot 4: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|--|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.83 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Left head |
| Device Position | Tilt |
| Band | GSM850 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 848.8 |
| Relative permittivity (real part) | 41.5 |
| Conductivity (S/m) | 0.90 |
| Variation (%) | -1.07 |

Maximum location: X=-57.00, Y=-54.00 SAR Peak: 0.48 W/kg

| | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.213319 |
| SAR 1g (W/Kg) | 0.331398 |



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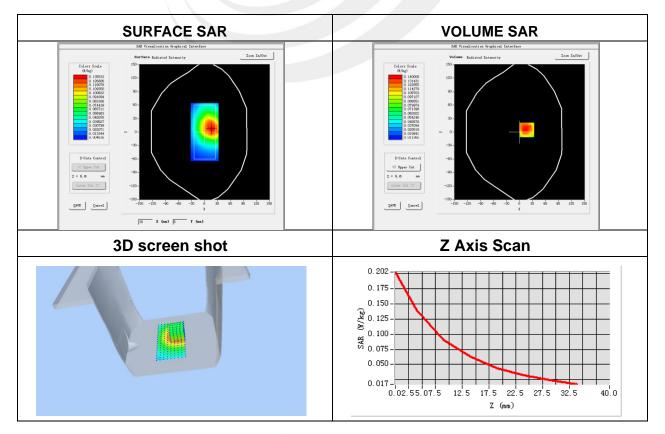
Plot 5: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 5.02 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Validation plane |
| Device Position | Body Front |
| Band | GSM850 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 848.8 |
| Relative permittivity (real part) | 55.20 |
| Conductivity (S/m) | 0.97 |
| Variation (%) | 0.37 |

Maximum location: X=17.00, Y=5.00

SAR Peak: 0.22 W/kg

| SAR 10g (W/Kg) | 0.089036 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.139187 |



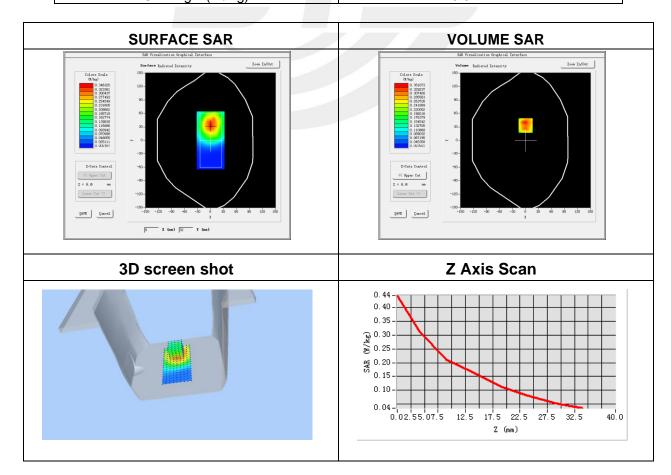


Plot 6: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|--|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 5.02 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Validation plane |
| Device Position | Body back |
| Band | GSM850 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 848.8 |
| Relative permittivity (real part) | 55.20 |
| Conductivity (S/m) | 0.97 |
| Variation (%) | -1.97 |

Maximum location: X=0.00, Y=33.00 SAR Peak: 0.52 W/kg

| | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.208141 |
| SAR 1g (W/Kg) | 0.327417 |



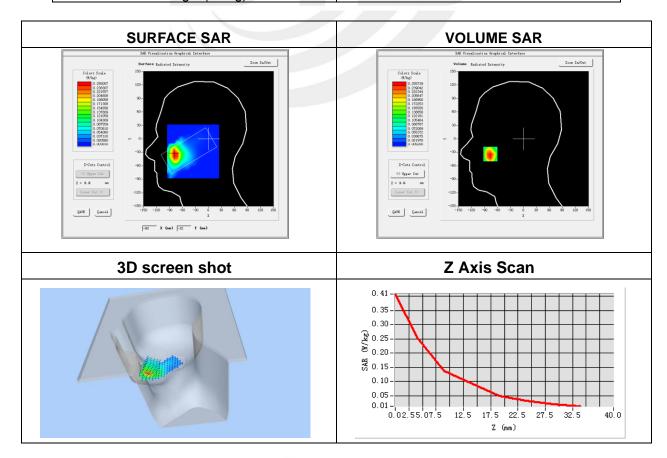


Plot 7: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.71 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Right head |
| Device Position | Cheek |
| Band | GSM1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 40.00 |
| Conductivity (S/m) | 1.40 |
| Variation (%) | 2.54 |

Maximum location: X=-77.00, Y=-34.00 SAR Peak: 0.40 W/kg

| SAR 10g (W/Kg) | 0.139528 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.254775 |





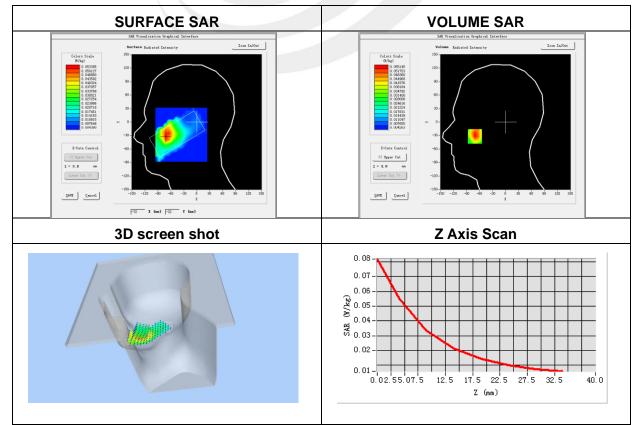
Plot 8: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.71 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomSoon | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| ZoomScan | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Right head |
| Device Position | Tilt |
| Band | GSM1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 40.00 |
| Conductivity (S/m) | 1.40 |
| Variation (%) | -0.84 |

Maximum location: X=-71.00, Y=-32.00

SAR Peak: 0.09 W/kg

| SAR 10g (W/Kg) | 0.032159 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.054166 |



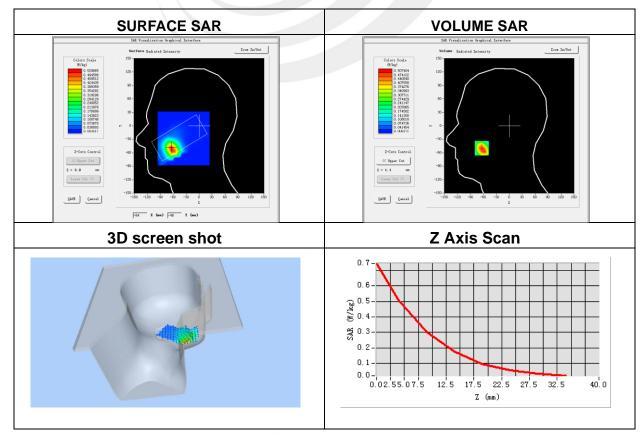


Plot 9: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.71 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| 700m200n | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| ZoomScan | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Left head |
| Device Position | Cheek |
| Band | GSM1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 40.00 |
| Conductivity (S/m) | 1.40 |
| Variation (%) | -0.72 |

Maximum location: X=-64.00, Y=-50.00 SAR Peak: 0.84W/kg

| SAR 10g (W/Kg) | 0.253191 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.484571 |





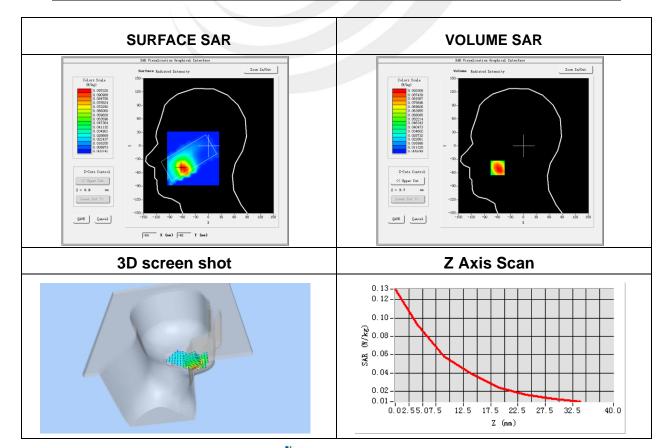
Plot 10: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.71 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Left head |
| Device Position | Tilt |
| Band | GSM1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 40.00 |
| Conductivity (S/m) | 1.40 |
| Variation (%) | 0.20 |

Maximum location: X=-60.00, Y=-49.00

SAR Peak: 0.15W/kg

| SAR 10g (W/Kg) | 0.054408 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.093514 |



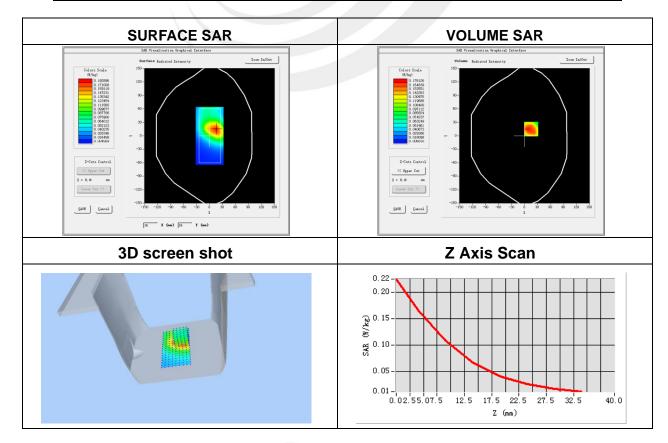


Plot 11: DUT: Flip old man phone; EUT Model: I534

| Test Data | 2014-12-23 |
|-----------------------------------|-------------------------------------|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.85 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Validation plane |
| Device Position | Body Front |
| Band | GSM1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 53.30 |
| Conductivity (S/m) | 1.52 |
| Variation (%) | 4.00 |

Maximum location: X=15.00, Y=15.00 SAR Peak: 0.26 W/kg

| SAR 10g (W/Kg) | 0.099949 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.169483 |



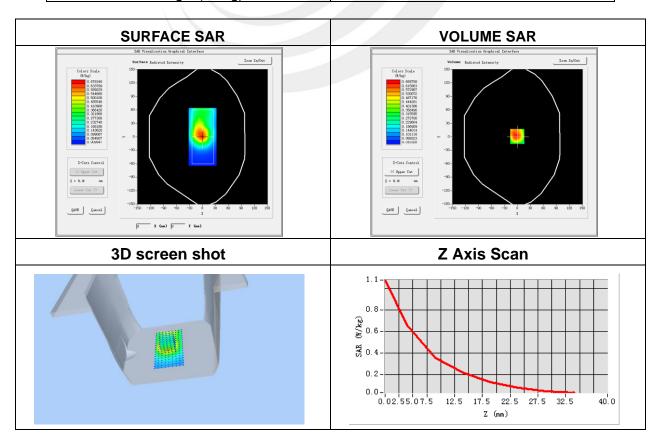


Plot 12: DUT: Flip old man phone ; EUT Model: I534

| 2014-12-23 |
|-------------------------------------|
| 22.70 |
| 22.30 |
| SN 17/14 EP221 |
| 4.85 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, |
| Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body Back |
| GSM 1900 |
| Middle |
| TDMA (Crest factor: 8.32) |
| 1880.0 |
| 53.30 |
| 1.52 |
| -2.38 |
| |

Maximum location: X=-1.00, Y=1.00 SAR Peak:1.07W/kg

| | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.362666 |
| SAR 1g (W/Kg) | 0.650234 |





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

