



FCC SAR TEST REPORT

Report No: STS1512020H01

Issued for

Xian Aerospace Huaxun Technology Co., LTD

3rd floor, Huihao International Building, No.58 of Technology 3rd road, Xian City

| Product Name: | Mobile phone |
|----------------|-----------------------------|
| Brand Name: | で多らで おきれてもおけれない可 |
| Model No.: | HX5208 |
| Series Model: | N/A |
| FCC ID: | 2AGY5-HX5208 |
| | ANSI/IEEE Std. C95.1 |
| Test Standard: | FCC 47 CFR Part 2 (2.1093) |
| | IEEE 1528: 2013 |
| May SAR (1a) | Head:0.310 W/kg |
| Max. SAR (1g): | Body:0.882 W/kg |

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Test Report Certification

Applicant's name Xian Aerospace Huaxun Technology Co., LTD

Address 3rd floor, Huihao International Building, No.58 of Technology 3rd

road, Xian City

Manufacture's Name...... Shenzhen Shouxin Tongda Technology Co.,Ltd

Shenzhen, Guangdong, China

Product description

Product name...... Mobile phone

Trademark: 📬 🕬

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Model and/or type reference .: HX5208

Series Model: N/A

ANSI/IEEE Std. C95.1-1992

Standards 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...... 11 Dec. 2015

Test Result..... Pass

Testing Engineer:

Allen Chen

(Allen Chen)

Technical Manager:

(John Zou)

(001111 200)

Authorized Signatory:

2000

(Bovey Yang)





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1. General Information

1.1 EUT Description

| Equipment | Mobile phone | | | | |
|---------------------------|---|---|--|--|--|
| Brand Name | CÉSIC BARRORAMENT BARRORAMENT | | | | |
| Model No. | HX5208 | | | | |
| Series Model | N/A | | | | |
| FCC ID | 2AGY5-HX5208 | | | | |
| Model Difference | N/A | | | | |
| Adapter | Input: AC100-240V, 200mA,50/60 output: DC5V,1000mA | Hz | | | |
| Battery | Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 3200mAh | | | | |
| Hardware Version | W113-MB REV1.1 | | | | |
| Software Version | WA | | | | |
| Frequency Range | GSM 850: 824.2 ~ 848.8 MHz PCS1900: 1850.2 ~ 1909.8 MHz WLAN 802.11 b/g/n(HT20):2412~ Bluetooth: 2402 ~ 2480 MHz | 2462 MHz | | | |
| Transmit Power(MAX): | GSM 850: 31.44dBm GSM 1900: 28.53dBm Bluetooth: 3.562dBm | 802.11b: 13.81dBm 802.11g: 12.14dBm 802.11 n(HT20): 11.95dBm 802.11 n(HT40): 9.12dBm | | | |
| Max. Reported SAR(1g): | Head: GSM 850: 0.268 W/kg GSM 1900: 0.121 W/kg WIF I: 0.310 W/kg | Body: GSM 850: 0.494 W/kg GSM 1900: 0.882 W/kg WIFI: 0.266 W/kg | | | |
| Operating Mode: | GSM: GSM Voice WLAN: 802.11 b/g/n; Bluetooth: V4.0+EDR(GFSK+π/4DQPSK+8DPSK) | | | | |
| Antenna Specification: | GSM: PIFA Antenna BT/WIFI: PIFA Antenna | | | | |
| Hotspot Mode: | Not Support | | | | |
| DTM Mode: | Not Support | | | | |



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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 B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong,

Baoan District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649 FCC Registration No.: 842334; IC Registration No.: 12108A-1



Report No.: STS1512020H01



| No. | lde ntity | Document Title |
|-----|----------------------------|---|
| 4 | 47 OFD Down 0 | Frequency Allocations and Radio Treaty Matters; General |
| 1 | 47 CFR Part 2 | Rules and Regulations |
| | | IEEE Standard for Safety Levels with Respect to Human |
| 2 | ANSI/IEEE Std. C95.1-1992 | Exposure to Radio Frequency Electromagnetic Fields, 3 |
| | | kHz to 300 GHz |
| | | Recommended Practice for Determining the Peak |
| • | IFFE 044 4500 0040 | Spatial-Average Specific Absorption Rate (SAR) in the |
| 3 | IEEE Std. 1528-2013 | Human Head from Wireless Communications Devices: |
| | | Measurement Techniques |
| 4 | FOC KDD 447400 D04 : 05-00 | Mobile and Portable Device RF Exposure Procedures and |
| 4 | FCC KDB 447498 D01 v05r02 | Equipment Authorization Policies |
| 5 | FCC KDB 865664 D01 v01r03 | SAR Measurement 100 MHz to 6 GHz |
| 6 | FCC KDB 865664 D02 v01r01 | RF Exposure Reporting |

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

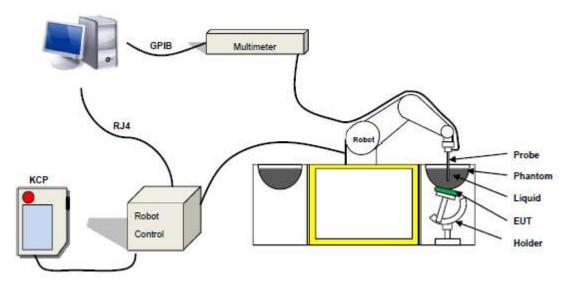
$$SAR = \frac{\sigma E^2}{\rho}$$

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



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.





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

4.1 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: 11 Dec, 2015 Ambient condition: Temperature 23.4°C Relative humidity: 43%

| Head Simula | ting Liquid | Davamatava | Toward | Measured | Devietie = [0/1 | 1 / 10 ام ما نصونا | |
|--------------|---------------|----------------------------|--------|------------|-----------------|--------------------|--|
| Frequency | Temp. [°C] | Parameters Target Measured | | ivieasured | Deviation[%] | Limited[%] | |
| 835 MHz | 835 MHz 22.30 | Permitivity: | 41.5 | 41.19 | -0.75 | ±5 | |
| 033 IVII IZ | | Conductivity: | 0.9 | 0.89 | -1.11 | ±5 | |
| 1900 MHz | 22.30 | Permitivity: | 40.0 | 39.44 | -1.40 | ±5 | |
| 1900 IVII IZ | | Conductivity: | 1.4 | 1.42 | 1.43 | ± 5 | |
| 2450 MHz | 21.5 | Permitivity: | 39.2 | 39.38 | 0.46 | ± 5 | |
| | | Conductivity: | 1.8 | 1.77 | -1.67 | ±5 | |

| Body Simul | Body Simulating Liquid | | Tourset | Measured | Deviation[0/1 | Liverite al[0/1 |
|--------------|------------------------|----------------------------|---------|--------------|---------------|-----------------|
| Frequency | Temp. [°C] | Parameters Target Measured | | Deviation[%] | Limited[%] | |
| 835 MHz | 22.30 | Permitivity: | 55.2 | 54.262 | -1.70 | ± 5 |
| 635 IVITZ | 22.30 | Conductivity: | 0.97 | 0.99 | 2.06 | ± 5 |
| 1900 MHz | 22.30 | Permitivity: | 53.3 | 52.78 | -0.98 | ± 5 |
| 1300 1011 12 | | Conductivity: | 1.52 | 1.55 | 1.97 | ± 5 |
| 2450 MHz | 21.5 | Permitivity: | 52.7 | 52.41 | -0.55 | ± 5 |
| | | Conductivity: | 1.95 | 1.93 | -1.03 | ± 5 |

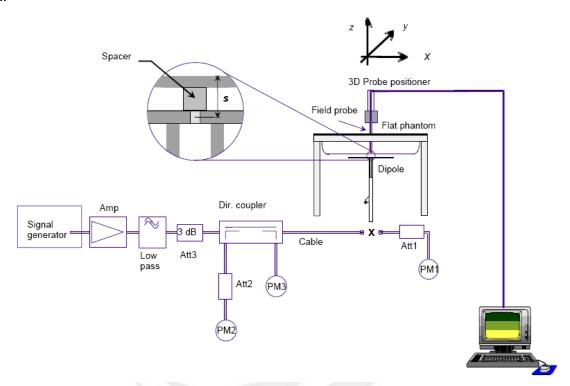


5. SAR System Validation

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 23.5°C Relative humidity: 45%

| Freq.(MHz) | Power(mW) | Tested Value (W/Kg) | Nomalized SAR (W/kg) | Target(W/Kg) | Tolerance(%) | Date |
|------------|-----------|---------------------------|----------------------------|--------------|--------------|------------|
| 835 Head | 100 | 0.932 | 9.32 | 9.56 | -2.51 | 2015-12-11 |
| 835 Body | 100 | 0.974 | 9.74 | 9.56 | 1.88 | 2015-12-11 |
| 1900 Head | 100 | 3.891 | 38.91 | 39.8 | -2.24 | 2015-12-11 |
| 1900 Body | 100 | 4.016 | 40.16 | 39.8 | 0.90 | 2015-12-11 |
| 2450 Head | 100 | 5.156 | 51.56 | 52.4 | 1.63 | 2015-12-11 |
| 2450 Body | 100 | 5.108 | 51.08 | 52.4 | 2.58 | 2015-12-11 |

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.

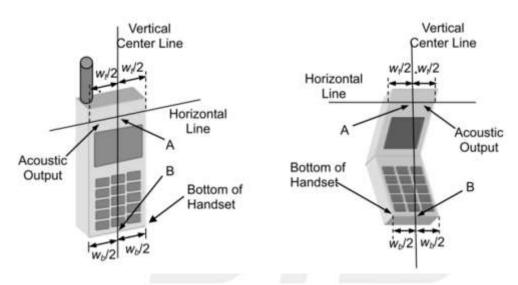




This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

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

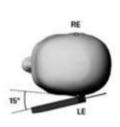
- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.











- 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.





8. Uncertainty

8.1 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 | |
|---------|---|--------|----------------|-----------|-----------------------|-----------------------|------|-------|------|--|
| Measur | M easurement System | | | | | | | | | |
| 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 | $\sqrt{C_{p}}$ | $\sqrt{C_{p}}$ | 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 | 11 | 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 sa | ample related | | | | | | | | | |
| 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 | |



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| 17 | Drift of output pow er | 5.0 | R | √3 | 1 | 1 | 2.89 | 2.89 | 8 | | |
|-------------------|------------------------------|-------------------------|-----|---|------|------|--------|--------|---|--|--|
| Phant | Phantom and set-up | | | | | | | | | | |
| 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 | | |
| 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 %) | Ttainty $U=kU_{C}$,k=2 | | | | | 21.26% | 21.08% | | | |



8.2 System validation Uncertainty

| | | | l | | | | | | | |
|--------|---|--------|----------------|-----------|-----------------------|-----------------------|------|-------|------|--|
| NO | Source | Tol(%) | Prob. Dist. | Div. k | ci (1g) | ci (10g) | 1gUi | 10gUi | Veff | |
| Measu | M easurement System | | | | | | | | | |
| 1 | Probe calibration | 5.8 | N | 1 | 1 | 1 | 5.8 | 5.8 | 80 | |
| 2 | Axial isotropy | 3.5 | R | √3 | (1-cp) ^{1/2} | (1-cp) ^{1/2} | 1.43 | 1.43 | ∞ | |
| 3 | Hemispherical isotropy | 5.9 | R | √3 | $\sqrt{C_p}$ | $\sqrt{C_p}$ | 2.41 | 2.41 | ∞ | |
| 4 | Boundary effect | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | ∞ | |
| 5 | Linearity | 4.7 | R | √3 | 1 | 1 | 2.71 | 2.71 | ∞ | |
| 6 | System Detection limits | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | ∞ | |
| 7 | Modulation response | 0 | N | 1 | 1 | 1 | 0 | 0 | ∞ | |
| 8 | Readout electronics | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | ∞ | |
| 9 | Response time | 0 | R | √3 | 1 | 1 | 0 | 0 | ∞ | |
| 10 | Integration time | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | ∞ | |
| 11 | Ambient noise | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | ∞ | |
| 12 | Ambient reflections | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | ∞ | |
| 13 | Probe positioner mech. restrictions | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | ∞ | |
| 14 | Probe positioning with respect to phantom shell | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 80 | |
| 15 | Max.SAR evaluation | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | ∞ | |
| Dipole | · | | | | | • | | | | |
| 16 | Deviation of experimental source from | 4 | N | 1 | 1 | 1 | 4.00 | 4.00 | 8 | |
| 17 | Input pow er and SAR drit measurement | 5 | R | √3 | 1 | 1 | 2.89 | 2.89 | 8 | |



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| 18 | Dipole Axis to liquid Distance | 2 | R | √3 | 1 | 1 | | | ∞ | | |
|-------------------|---|-----|-----|---|------|--------|--------|--------|---|--|--|
| Phant | Phantom and set-up | | | | | | | | | | |
| 19 | Phanto m uncertainty | 4.0 | R | √3 | 1 | 1 | 2.31 | 2.31 | 8 | | |
| 20 | Uncertainty in SAR correction for deviation(in | 2.0 | N | 1 | 1 | 0.84 | 2 | 1.68 | ∞ | | |
| 21 | Liquid conductivity (target) | 2 | N | 1 | 1 | 0.84 | 2.00 | 1.68 | ∞ | | |
| 22 | Liquid conductivity (temperature uncertainty) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | 5 | | |
| 23 | Liquid conductivity (meas) | 4 | N | 1 | 0.23 | 0.26 | 0.92 | 1.04 | 5 | | |
| 24 | Liquid Permittivity (target) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | ∞ | | |
| 25 | Liquid Permittivity (temperature uncertainty) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | 5 | | |
| 26 | Liquid Permittivity (meas) | 5.0 | N | 1 0.23 0.26 | | 1.15 | 1.30 | 8 | | | |
| Combined standard | | | RSS | $U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ | | | 10.15% | 10.05% | | | |
| | Expanded uncertainty (P=95%) $ U = k \ U_{\it C} \ , \mbox{k=2} $ | | | | | 21.29% | 21.10% | | | | |



9. Conducted Power Measurement

Test Result:

| RF Output Power (dBm) | | | | | | | | |
|-----------------------|--------------|-------|-------|--------|--------|--------|--|--|
| Band | Band GSM 850 | | | | | | | |
| 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) | 31.25 | 31.44 | 31.18 | 28.30 | 28.53 | 28.39 | | |
| GPRS (GMSK, 1-Slot) | / | / | / | / | / | / | | |
| GPRS (GMSK, 2-Slot) | / | / | / | / | / | / | | |
| GPRS (GMSK, 3-Slot) | / | / | / | / | / | / | | |
| GPRS (GMSK, 4-Slot) | / | / | / | / | / | / | | |
| EGPRS(8PSK, 1-Slot) | / | / | / | / | / | / | | |
| EGPRS(8PSK, 2-Slot) | / | / | / | / | / | / | | |
| EGPRS(8PSK, 3-Slot) | / | / | / | / | / | / | | |
| EGPRS(8PSK, 4-Slot) | / | 1 | 1 | / | 1 | / | | |

Remark: GPRS, CS4 coding scheme. EGPRS, MCS9 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- RF Output 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) | 22.25 | 22.44 | 22.18 | 19.30 | 19.53 | 19.39 | | | |
| GPRS (GMSK, 1-Slot) | 1 | 1 | 1 | / | / | / | | | |
| GPRS (GMSK, 2-Slot) | 1 | 1 | 1 | / | / | / | | | |
| GPRS (GMSK, 3-Slot) | / | 1 | 1 | / | / | / | | | |
| GPRS (GMSK, 4-Slot) | 1 | 1 | / | / | / | / | | | |
| EGPRS(8PSK, 1-Slot) | / | / | / | / | / | / | | | |
| EGPRS(8PSK, 2-Slot) | / | / | / | / | / | / | | | |
| EGPRS(8PSK, 3-Slot) | / | / | / | / | / | / | | | |
| EGPRS(8PSK, 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) |
|----------------|-------------------|--------------------|---------------------|
| | 1 | 2412 | 13.21 |
| 802.11b | 6 | 2437 | 13.68 |
| | 11 | 2462 | 13.81 |
| | 1 | 2412 | 11.25 |
| 802.11g | 6 | 2437 | 12.04 |
| | 11 | 2462 | 12.14 |
| | 1 | 2412 | 10.75 |
| 802.11n(HT-20) | 6 | 2437 | 11.95 |
| | 11 | 2462 | 11.89 |
| | 3 | 2422 | 8.69 |
| 802.11n(HT-40) | 6 | 2437 | 9.02 |
| | 9 | 2452 | 9.12 |

Bluetooth

| Mode | Channel Number | Frequency (MHz) | PEAK Power (dBm) |
|-----------------|-------------------|--------------------|---------------------|
| | 0 | 2402 | 3.562 |
| GFSK(1M) | 39 | 2441 | 3.244 |
| | 78 | 2480 | 3.056 |
| | 0 | 2402 | 2.399 |
| π/4-DQPSK(2bps) | 39 | 2441 | 2.442 |
| | 78 | 2480 | 1.835 |
| // | 0 | 2402 | 2.473 |
| 8-DPSK(3Mbps) | 39 | 2441 | 2.503 |
| | 78 | 2480 | 1.894 |

BT 4.0

| Mode | Mode Channel Number | | PEAK Power (dBm) | | |
|----------|---------------------|------|---------------------|--|--|
| | 1 | 2402 | -3.937 | | |
| GFSK(1M) | 20 | 2441 | -3.174 | | |
| | 40 | 2480 | -4.590 | | |



Turn Power

| Mode | GSM850(AVG) | GSM1900(AVG) | | |
|---------|-------------|--------------|--|--|
| GSM/PCS | 30.5±1dBm | 27.6±1dBm | | |

| Mode | WIFI |
|-------------------|---------|
| IEEE 802.11b | 13±1dBm |
| IEEE 802.11g | 12±1dBm |
| IEEE 802.11n HT20 | 11±1dBm |
| IEEE 802.11n HT40 | 9±1dBm |

| Mode | BT (PEAK) |
|-----------|-----------|
| GFSK | 3±1dBm |
| π/4-DQPSK | 2±1dBm |
| 8DPSK | 2±1dBm |

| Mode | BT 4.0 |
|------|---------|
| GFSK | -4±1dBm |



11. EUT And Test Setup Photo

11.1 EUT Photo





Back side





Top side



Bottom side







Left side

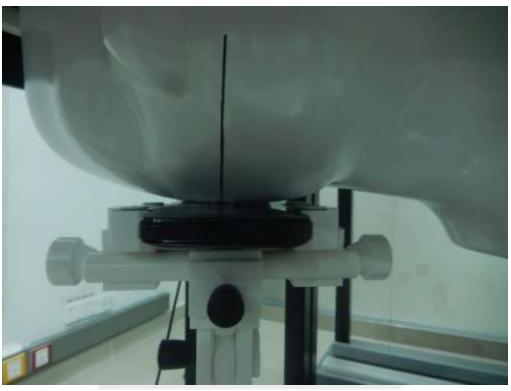


Right side







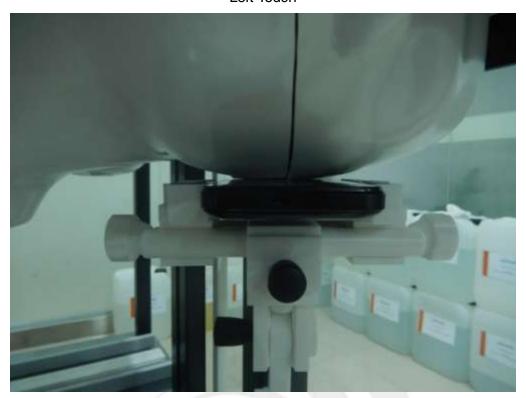


Right Tilt





Left Touch

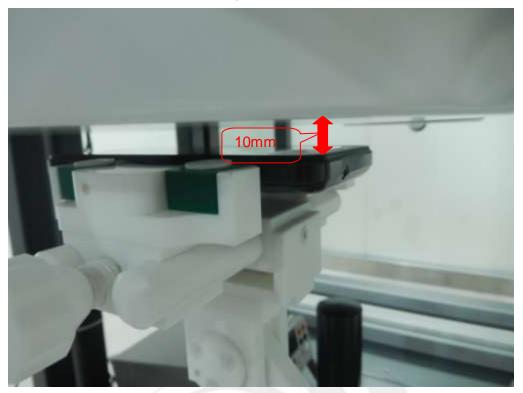


Left Tilt

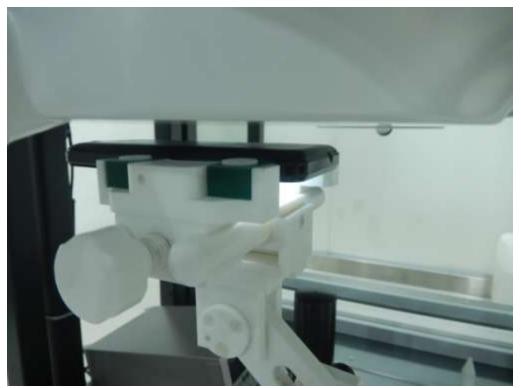




Body Front side



Body Back side









Liquid depth (15 cm)





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 190 | 0.259 | -0.45 | 31.5 | 31.44 | 0.263 | 1 |
| GSM 850 | Voice | Right Tilt | CH 190 | 0.137 | -0.78 | 31.5 | 31.44 | 0.139 | 2 |
| GSIVI 650 | | Left Cheek | CH 190 | 0.264 | 2.25 | 31.5 | 31.44 | 0.268 | 3 |
| | | Left Tilt | CH 190 | 0.148 | 2.34 | 31.5 | 31.44 | 0.150 | 4 |
| | | Right Cheek | CH 810 | 0.117 | 1.51 | 28.6 | 28.53 | 0.119 | 7 |
| GSM1900 | Voice | Right Tilt | CH 810 | 0.088 | 1.74 | 28.6 | 28.53 | 0.089 | 8 |
| GSIWI1900 | voice | Left Cheek | CH 810 | 0.119 | -0.55 | 28.6 | 28.53 | 0.121 | 9 |
| | | Left Tilt | CH 810 | 0.067 | 1.49 | 28.6 | 28.53 | 0.068 | 10 |

| Band | Mode | Test Position | Channel | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Duty cycle(%) | Scaled SAR (W/Kg) | Meas. No. |
|-------|---------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|---------------|-------------------------|--------------|
| | 802.11b | Right Cheek | CH11 | 0.297 | 0.59 | 14 | 13.81 | 100 | 0.310 | 16 |
| WIFI | | Right Tilt | CH11 | 0.183 | -0.84 | 14 | 13.81 | 100 | 0.191 | 17 |
| VVIII | | Left Cheek | CH11 | 0.174 | -0.44 | 14 | 13.81 | 100 | 0.182 | 18 |
| | | Left Tilt | CH11 | 0.165 | 0.25 | 14 | 13.81 | 100 | 0.172 | 19 |

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 | Voice | Frontside | CH 190 | 0.214 | -2.90 | 31.5 | 31.44 | 0.217 | 5 |
| 850 | 850 Voice | Back side | CH 190 | 0.487 | -1.26 | 31.5 | 31.44 | 0.494 | 6 |
| | | Front side | CH 661 | 0.334 | 1.78 | 28.6 | 28.53 | 0.339 | 11 |
| GSM | GSM 1900 Voice | Back side | CH 512 | 0.737 | -1.13 | 28.6 | 28.30 | 0.790 | 12 |
| 1900 | | Back side | CH 661 | 0.845 | 3.41 | 28.6 | 28.53 | 0.859 | 13 |
| | | Back side | CH 810 | 0.840 | 2.36 | 28.6 | 28.39 | 0.882 | 15 |

| Band | Mode | Test Position | Channel | Result 1g (W/Kg) | Power Drift(%) | Max.Turn -up Power(d Bm) | Meas.Ou tput Power(d Bm) | Duty cycle(%) | Scaled SAR (W/Kg) | Meas. No. |
|-------|--|------------------|---------|---------------------|-------------------|-----------------------------------|-----------------------------------|------------------|-------------------------|--------------|
| WIFI | \\(\(\text{\tin}\text{\te}\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\tint{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\ti}\tint{\text{\texi}\text{\texi}\tint{\text{\texi}\text{\texi}\ti}\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\te | Front side | CH11 | 0.153 | 0.42 | 14 | 13.81 | 100 | 0.160 | 20 |
| VVIFI | 802.11b | Back side | CH11 | 0.255 | -0.40 | 14 | 13.81 | 100 | 0.266 | 21 |

Note: The test separation of all above table is 10mm.





Repeated 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. |
|---------|-------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|-------------------------|--------------|
| GSM1900 | Voice | Back side | CH 661 | 0.858 | 0.03 | 28.6 | 28.53 | 0.872 | 14 |

12.3 repeated SAR measurement

| Band | Mode | Test Position | Channel | Original Measured SAR 1g(mW/g) | 1 st Repeated SAR 1g | Ratio | Original Measured SAR 1g(mW/g) | 2nd Repeated SAR 1g | Ratio |
|---------|-------|------------------|---------|---|----------------------------|-------|---|---------------------------|-------|
| GSM1900 | Voice | Back side | CH 661 | 0.845 | 0.858 | 1.02 | - | - | - |

Note:

- 1. Per KDB 865664 D01V01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg.
- 2. Per KDB 865664 D01V01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤1.2and the measured SAR <1.45W/Kg, only one repeated measurement is required.
- 3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥ 1.45W/Kg
- 4. The ratio is the difference in percentage between original and repeated measured SAR.



Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

| Position | Simultaneous state | | | |
|----------|--------------------|--|--|--|
| l lead | GSM + Wifi | | | |
| Head | GSM + Bluetooth | | | |
| | GSM + Wifi | | | |
| Body | GSM + Bluetooth | | | |

NOTE:

- 1. Bluetooth and WIFI can't simultaneous transmission at the same time.
- 2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- 3. Based upon KDB 447498 D01 v05, BT SAR is excluded as below table.
- 4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 5. For minimum test separation distance \leq 50mm,Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) $\cdot [\sqrt{f} (GHz)/x] \leq 3.0$ for 1-g SAR and \leq 7.5 for 10-g extremity SAR
- 6. The reported SAR summation is calculated based on the same configuration and test position.
- 7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
- a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[\sqrt{f} (GHz) /x] W/kg for test separation distances \leq 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
- b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

| Estimated SAR | | Maximum Average Power | | Antenna | Frequency(GHz) | Stand alone | |
|---------------|------|--------------------------|------|-------------|----------------|----------------|--|
| | | dBm | mW | to user(mm) | | SAR(1g) [W/kg] | |
| DT | Head | 4.0 | 0.54 | 5 | 2.480 | 0.104 | |
| ВТ | Body | 4.0 | 2.51 | 10 | 2.480 | 0.057 | |



| Simultaneous Mode | Position | Mode | Max. 1-g SAR (W/kg) | 1-g Sum SAR (W/kg) | |
|-------------------|----------|-----------|------------------------|-----------------------|--|
| | Head | GSM Voice | 0.268 | 0.578 | |
| COM . M/ss | пеац | Wifi | 0.310 | 0.576 | |
| GSM + Wifi | Dody | GSM Voice | 0.882 | 1 1 1 0 | |
| | Body | Wifi | 0.266 | 1.148 | |
| | Llood | GSM Voice | 0.268 | 0.070 | |
| GSM + Bluetooth | Head | Bluetooth | 0.104 | 0.372 | |
| | Pody | GSM Voice | 0.882 | 0.030 | |
| | Body | Bluetooth | 0.057 | 0.939 | |

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibration | Calibrated Until |
|-----------------------------|--------------|---|--------------------------|------------------|------------------|
| 835MHz Dipole | SATIMO | SID835 | SN 30/14 DIP0G835-332 | 2014.09.01 | 2017.08.31 |
| 1900MHz Dipole | SATIMO | SID1900 | SN 30/14 DIP1G900-333 | 2014.09.01 | 2017.08.31 |
| 2450 MHz Dipole | SATIMO | SID2450 | SN 30/14 DIP2G450-335 | 2014.09.01 | 2017.08.31 |
| E-Field Probe | SATIMO | SSE5 | SN 17/14 EP221 | 2015.09.01 | 2016.08.31 |
| Antenna | SATIMO | ANTA3 | SN 07/13 ZNTA52 | 2014.09.01 | 2017.08.31 |
| Waveguide | SATIMO | SWG5500 | SN 13/14 WGA32 | 2014.09.01 | 2017.08.31 |
| Phantom1 | SATIMO | SAM | SN 32/14 SAM115 | N/A | N/A |
| Phantom2 | SATIMO | SAM | SN 32/14 SAM116 | N/A | N/A |
| SAR TEST BENCH | SATIMO | GSM and WCDMA mobile phone POSITIONNIN G SYSTEM | SN 32/14 MSH97 | N/A | N/A |
| SAR TEST BENCH | SATIMO | LAPTOP POSITIONNIN G SYSTEM | SN 32/14 LSH29 | N/A | N/A |
| Dielectric Probe Kit | SATIMO | SCLMP | SN 32/14 OCPG52 | 2015.09.01 | 2016.08.31 |
| Multi Meter | Keithley | Multi Meter 2000 | 4050073 | 2015.11.20 | 2016.11.19 |
| Signal Generator | Agilent | N5182A | MY50140530 | 2015.11.18 | 2016.11.17 |
| Power Meter | R&S | NRP | 100510 | 2015.10.25 | 2016.10.24 |
| Power Sensor | R&S | NRP-Z11 | 101919 | 2015.10.24 | 2016.10.23 |
| Power Sensor | Anritsu | MA2411B | 1027253 | 2015.10.10 | 2016.10.09 |
| Power Sensor | R&S | NRP-Z21 | 103971 | 2015.12.12 | 2016.12.11 |
| Network Analyzer | Agilent | 5071C | EMY46103472 | 2015.12.12 | 2016.12.11 |
| Attenuator 1 | PE | PE7005-10 | N/A | 2015.10.25 | 2016.10.24 |
| Attenuator 2 | PE | PE7005-3 | N/A | 2015.10.24 | 2016.10.23 |
| Attenuator 3 | Woken | WK0602-XX | N/A | 2015.12.12 | 2016.12.11 |
| Dual Directional Coupler | Agilent | 778D | 50422 | 2015.11.18 | 2016.11.17 |



Appendix A. System Validation Plots

System Performance Check Data (835MHz Head)

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

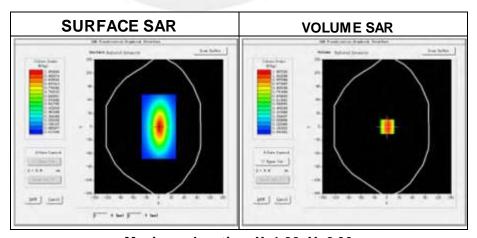
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-11

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) | 41.35 |
| Relative permittivity | 18.72 |
| Conductivity (S/m) | 0.87 |
| Power drift (%) | 0.45 |
| Ambient Temperature: | 23.5°C |
| Liquid Temperature: | 23.4°C |
| ConvF: | 4.83 |
| Crest factor: | 1:1 |



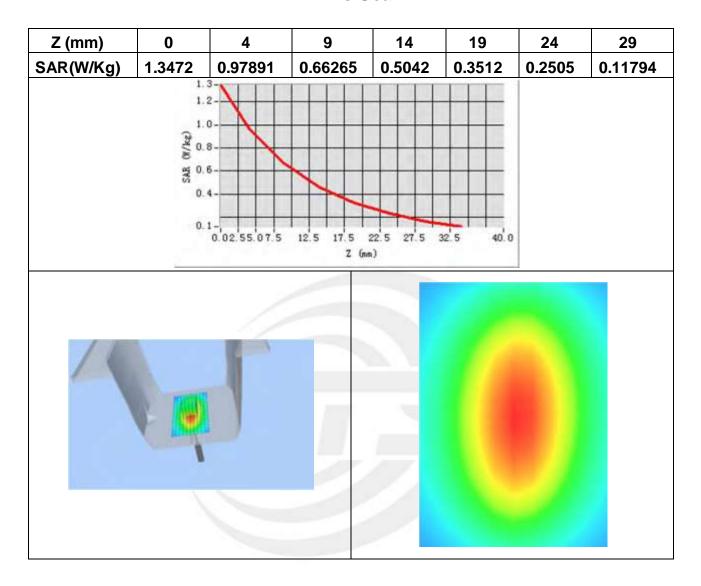
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.40 W/kg

| SAR 10g (W/Kg) | 0.616383 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.948734 |



Z Axis Scan





System Performance Check Data (835MHz Body)

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

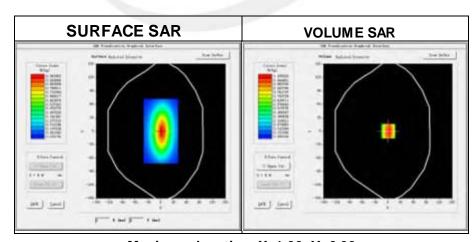
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-11

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) | 54.70 |
| Relative permittivity | 21.408187 |
| Conductivity (S/m) | 0.98 |
| Power drift (%) | 0.090000 |
| Ambient Temperature: | 23.5°C |
| Liquid Temperature: | 23.4°C |
| ConvF: | 5.02 |
| Crest factor: | 1:1 |



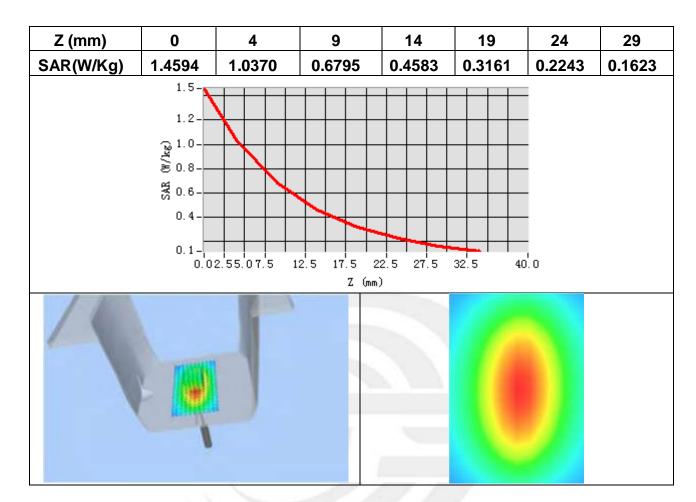
Maximum location: X=1.00, Y=0.00

SAR Peak: 1.46 W/kg

| SAR 10g (W/Kg) | 0.632676 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.994494 |



Z Axis Scan





System Performance Check Data (1900MHz Head)

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

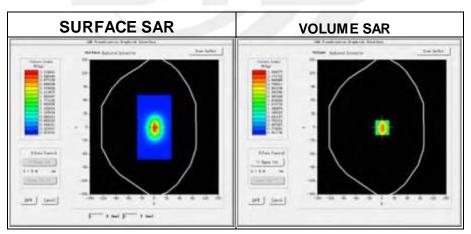
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-11

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) | 39.87 |
| Relative permittivity | 13.26 |
| Conductivity (S/m) | 1.402 |
| Power drift (%) | 0.47 |
| Ambient Temperature: | 23.5°C |
| Liquid Temperature: | 23.4°C |
| Probe | SN 17/14 EP221 |
| ConvF: | 4.71 |
| Crest factor: | 1:1 |



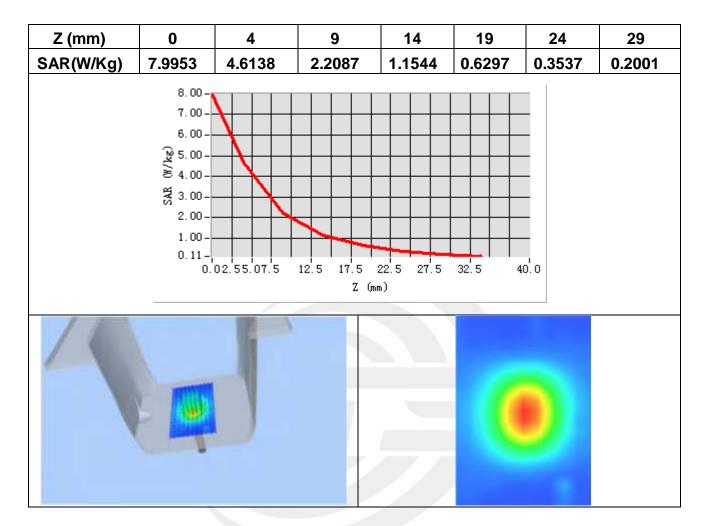
Maximum location: X=1.00, Y=0.00

SAR Peak: 7.90 W/kg

| SAR 10g (W/Kg) | 2.028813 |
|----------------|----------|
| SAR 1g (W/Kg) | 4.304987 |



Z Axis Scan





System Performance Check Data (1900MHz Body)

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

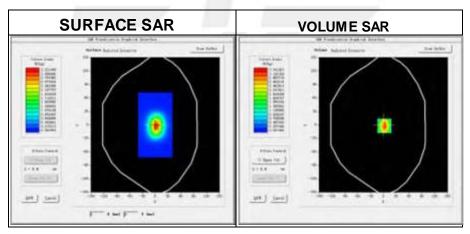
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-11

Measurement duration: 14 minutes 46 seconds

Experimental conditions.

| Device Position | - |
|-----------------------------------|----------------|
| Band | 1900MHz |
| Channels | - |
| Signal | CW |
| Frequency (MHz) | 1900 |
| Relative permittivity (real part) | 52.31 |
| Relative permittivity | 12.87531 |
| Conductivity (S/m) | 1.50 |
| Power drift (%) | 0.37 |
| Ambient Temperature: | 23.5°C |
| Liquid Temperature: | 23.4°C |
| Probe | SN 17/14 EP221 |
| ConvF: | 4.85 |
| Crest factor: | 1:1 |



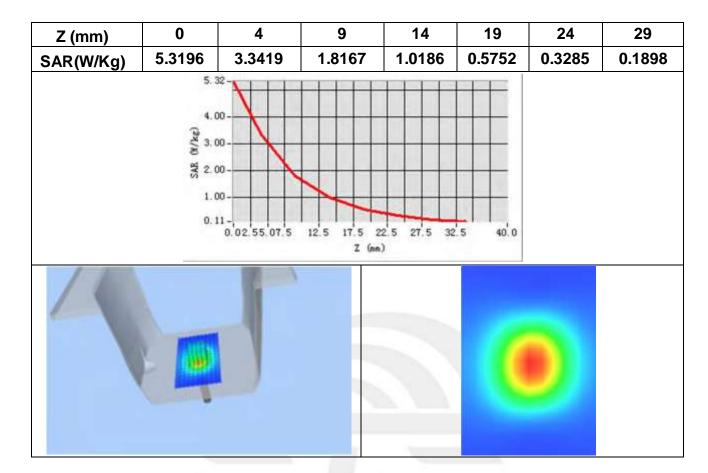
Maximum location: X=2.00, Y=2.00

SAR Peak: 5.58 W/kg

| SAR 10g (W/Kg) | 2.021180 |
|----------------|----------|
| SAR 1g (W/Kg) | 4.197824 |



Z Axis Scan





System Performance Check Data (2450MHz Head)

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

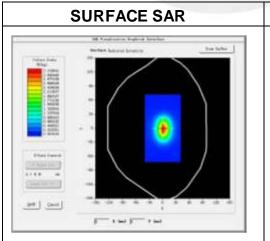
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

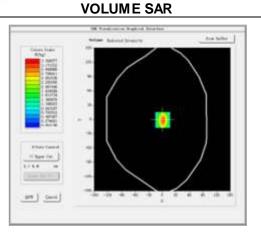
Date of measurement: 2015-12-11

Measurement duration: 13 minutes 51 seconds

Experimental conditions.

| Device Position | Validation plane |
|-----------------------------------|------------------|
| Band | 2450 MHz |
| Channels | <u>-</u> |
| Signal | CW |
| Frequency (MHz) | 2450 |
| Relative permittivity (real part) | 39.38 |
| Relative permittivity | 12.930000 |
| Conductivity (S/m) | 1.77 |
| Power drift (%) | -1.200000 |
| Ambient Temperature | 22.7°C |
| Liquid Temperature | 22.3°C |
| Probe | SN 17/14 EP221 |
| ConvF | 4.11 |
| Crest factor: | 1:1 |



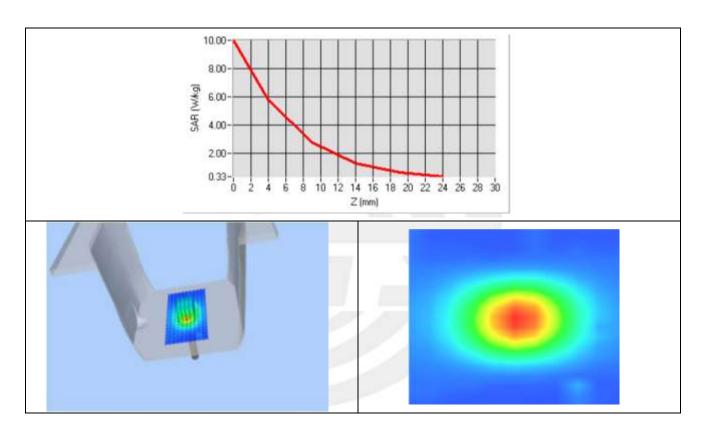




Maximum location: X=7.00, Y=6.00

| SAR 10g (W/Kg) | 2.635821 |
|----------------|----------|
| SAR 1g (W/Kg) | 5.156285 |

Z Axis Scan





System Performance Check Data (2450MHz Body)

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

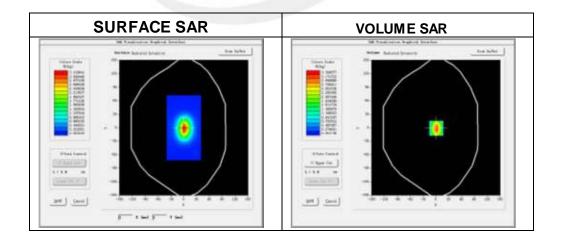
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-11

Measurement duration: 14 minutes 23 seconds

Experimental conditions.

| Device Position | Validation plane |
|-----------------------------------|------------------|
| Band | 2450 MHz |
| Channels | - |
| Signal | CW |
| Frequency (MHz) | 2450 |
| Relative permittivity (real part) | 52.41 |
| Relative permittivity | 12.930000 |
| Conductivity (S/m) | 1.93 |
| Power drift (%) | -1.200000 |
| Ambient Temperature | 22.7°C |
| Liquid Temperature | 22.3°C |
| Probe | SN 17/14 EP221 |
| ConvF | 4.25 |
| Crest factor: | 1:1 |

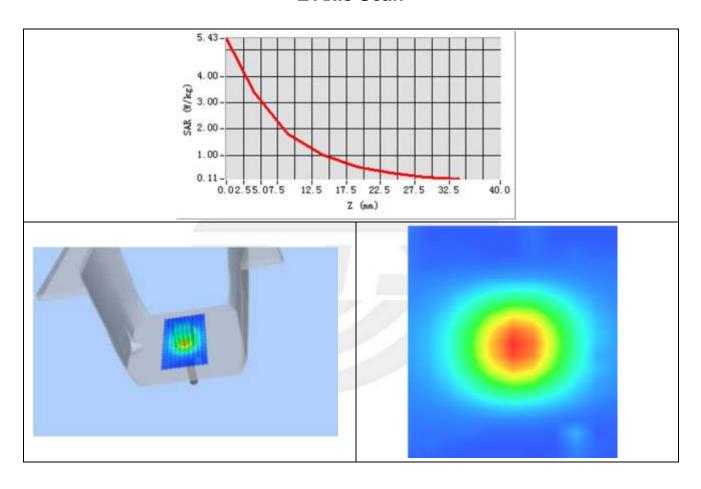




Maximum location: X=3.00, Y=1.00

| SAR 10g (W/Kg) | 2.536281 |
|----------------|----------|
| SAR 1g (W/Kg) | 5.108165 |

Z Axis Scan





Appendix B. SAR Test Plots

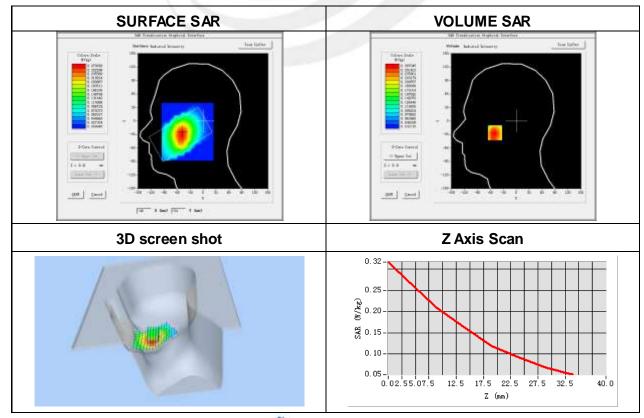
Plot 1: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|--|
| 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 | Right head |
| Device Position | Cheek |
| Band | GSM850 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 836.6 |
| Relative permittivity (real part) | 42.27 |
| Conductivity (S/m) | 0.91 |
| Variation (%) | -0.45 |

Maximum location: X=-49.00, Y=-26.00

SAR Peak: 0.34 W/kg

| SAR 10g (W/Kg) | 0.184231 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.258947 |



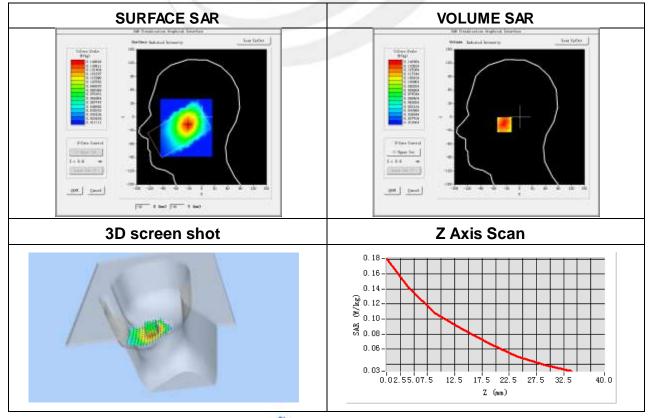


Plot 2: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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 Coon | 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 | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 836.6 |
| Relative permittivity (real part) | 42.27 |
| Conductivity (S/m) | 0.91 |
| Variation (%) | -0.78 |

Maximum location: X=-31.00, Y=-17.00 SAR Peak: 0.19 W/kg

| SAR 10g (W/Kg) | 0.099351 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.137083 |



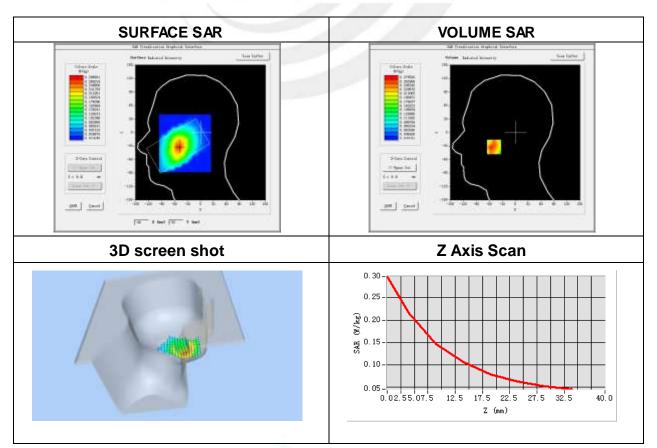


Plot 3: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|--|
| 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 | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 836.6 |
| Relative permittivity (real part) | 42.27 |
| Conductivity (S/m) | 0.91 |
| Variation (%) | 2.25 |

Maximum location: X=-49.00, Y=-32.00 SAR Peak: 0.30 W/kg

| SAR 10g (W/Kg) | 0.182579 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.264203 |



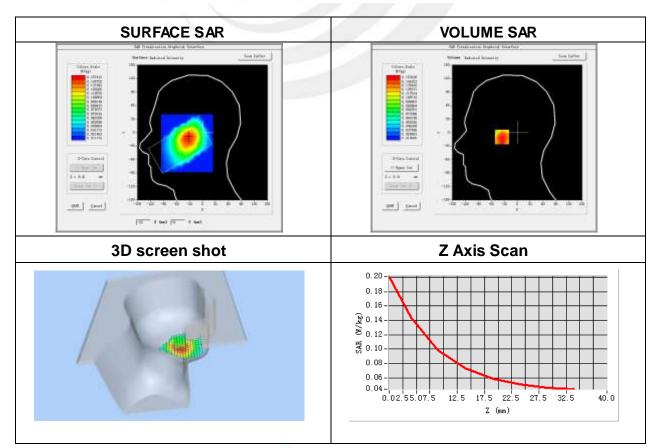


Plot 4: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|--|
| 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 | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 836.6 |
| Relative permittivity (real part) | 42.27 |
| Conductivity (S/m) | 0.91 |
| Variation (%) | 2.34 |

Maximum location: X=-33.00, Y=-9.00 SAR Peak: 0.20 W/kg

| SAR 10g (W/Kg) | 0.108608 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.148288 |



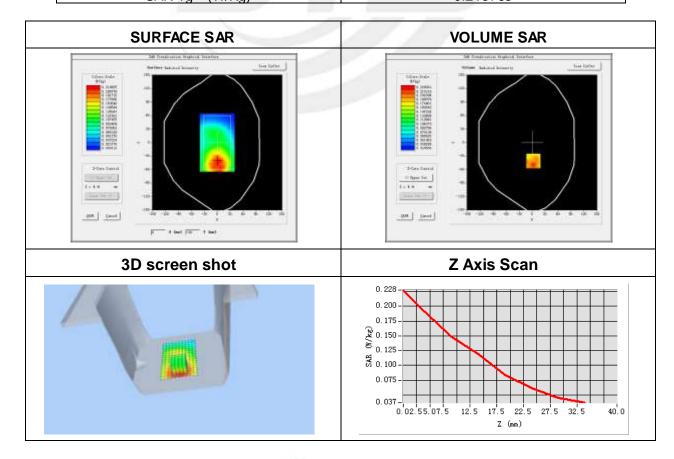


Plot 5: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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 | GSM 850 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 836.6 |
| Relative permittivity (real part) | 55.5 |
| Conductivity (S/m) | 0.96 |
| Variation (%) | -2.90 |

Maximum location: X=3.00, Y=-41.00 SAR Peak: 0.30 W/kg

| SAR 10g (W/Kg) | 0.146119 |
|----------------|----------|
| SAR 1a (W/Ka) | 0.213763 |



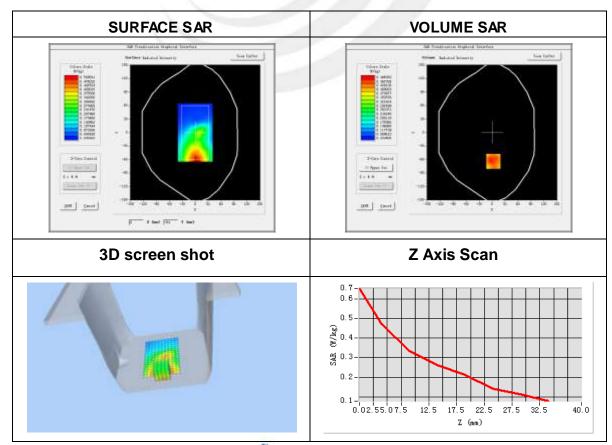


Plot 6: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|--|
| 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 | GSM 850 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 836.6 |
| Relative permittivity (real part) | 55.5 |
| Conductivity (S/m) | 0.96 |
| Variation (%) | -1.26 |

Maximum location: X=3.00, Y=-64.00 SAR Peak: 0.74 W/kg

| SAR 10g (W/Kg) | 0.325514 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.487036 |



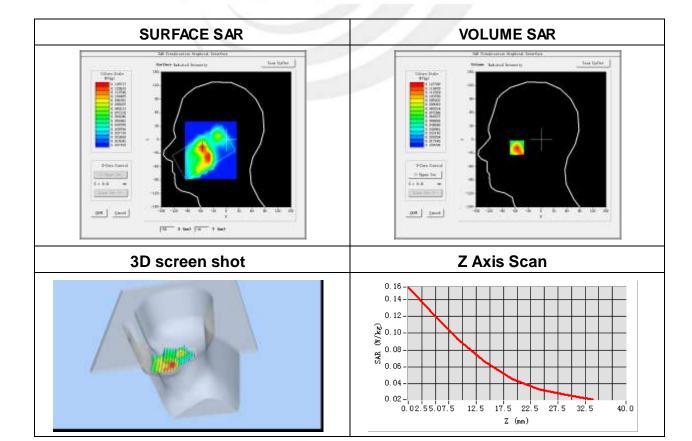


Plot 7: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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) | 39.57 |
| Conductivity (S/m) | 1.43 |
| Variation (%) | 1.51 |

Maximum location: X=-56.00, Y=-17.00 SAR Peak: 0.16 W/kg

| SAR 10g (W/Kg) | 0.077378 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.116936 |



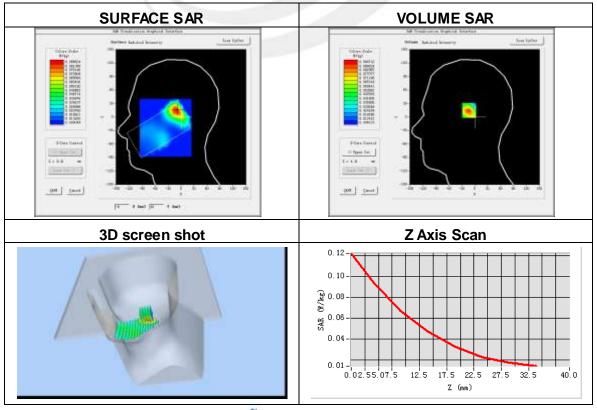


Plot 8: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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) | 39.57 |
| Conductivity (S/m) | 1.43 |
| Variation (%) | 1.74 |

Maximum location: X=-10.00, Y=16.00 SAR Peak: 0.12 W/kg

| SAR 10g (W/Kg) | 0.054690 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.088051 |



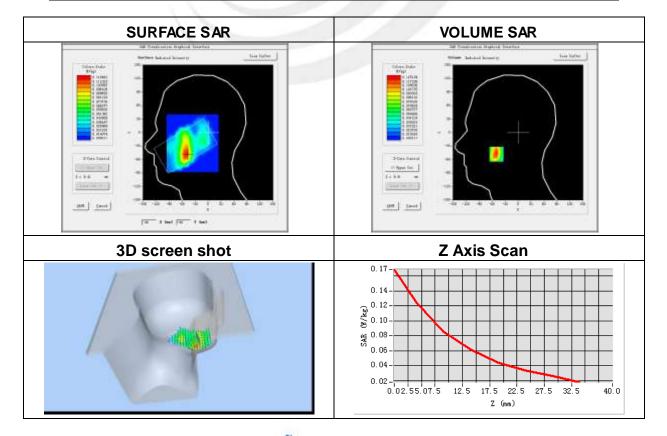


Plot 9: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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 | Left head |
| Device Position | Cheek |
| Band | GSM1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 39.57 |
| Conductivity (S/m) | 1.43 |
| Variation (%) | -0.55 |
| | |

Maximum location: X=-50.00, Y=-48.00 SAR Peak: 0.17 W/kg

| SAR 10g (W/Kg) | 0.074175 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.118762 |





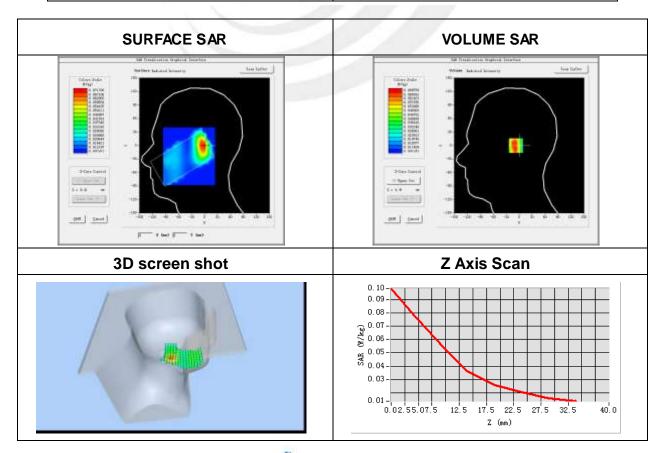
Plot 10: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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, |
| Zoomscan | 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) | 39.57 |
| Conductivity (S/m) | 1.43 |
| Variation (%) | 1.49 |

Maximum location: X=-2.00, Y=0.00

SAR Peak: 0.10 W/kg

| SAR 10g (W/Kg) | 0.043339 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.067062 |



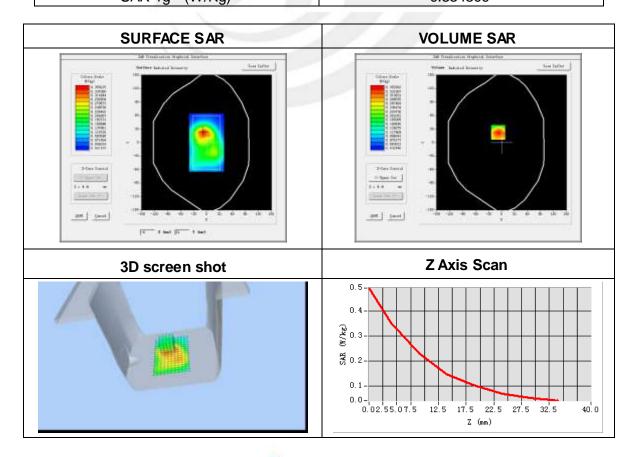


Plot 11: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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 |
| 7 0 | 5x5x7,dx=8mm dy=8mm dz=5mm, |
| ZoomScan | Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Validation plane |
| Device Position | Body front |
| Band | GSM 1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 51.68 |
| Conductivity (S/m) | 1.51 |
| Variation (%) | 1.78 |

Maximum location: X=-8.00, Y=23.00 SAR Peak: 0.50 W/kg

| SAR 10g (W/Kg) | 0.206384 |
|----------------|----------|
| SAR 1a (W/Ka) | 0.334309 |



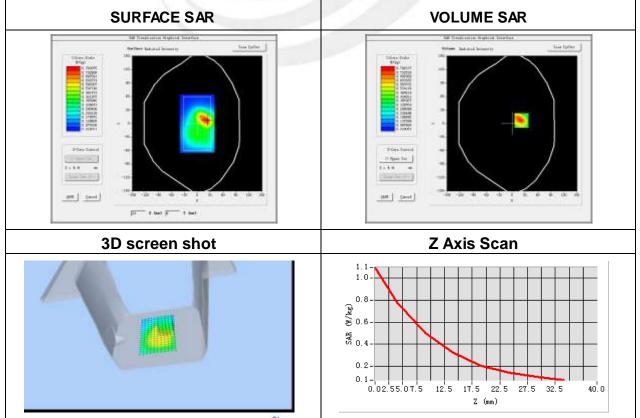


Plot 12: DUT: Mobile phone; EUT Model: HX5208

| • • | |
|-----------------------------------|-------------------------------------|
| Test Data | 2015-12-11 |
| 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 Behind |
| Band | GSM 1900 |
| Channels | Low |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1850.2 |
| Relative permittivity (real part) | 51.68 |
| Conductivity (S/m) | 1.51 |
| Variation (%) | -1.13 |
| | |

Maximum location: X=22.00, Y=7.00 SAR Peak: 1.12 W/kg

| SAR 10g (W/Kg) | 0.442375 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.737240 |



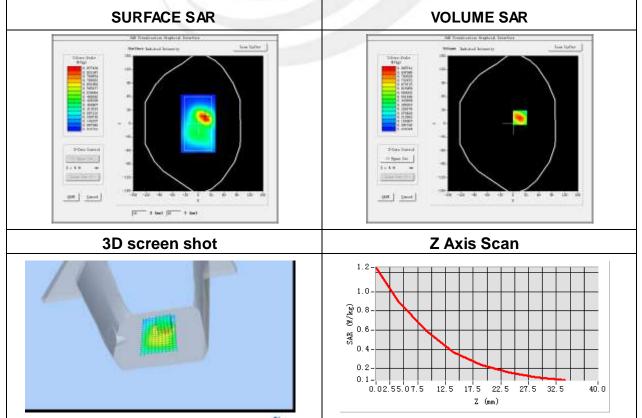


Plot 13: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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 Behind |
| Band | GSM 1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 51.68 |
| Conductivity (S/m) | 1.51 |
| Variation (%) | 3.41 |

Maximum location: X=16.00, Y=13.00 SAR Peak: 1.30 W/kg

| SAR 10g (W/Kg) | 0.496224 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.845316 |



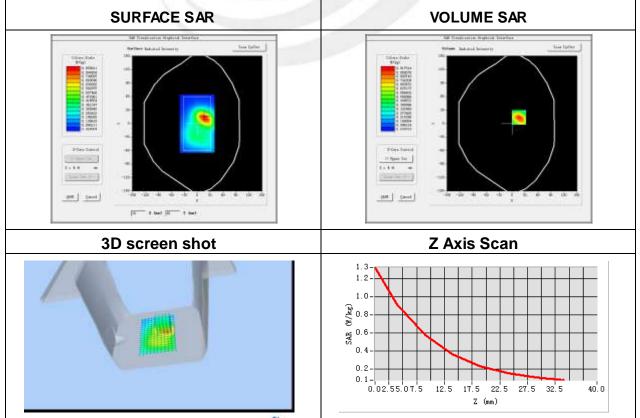


Plot 14: DUT: Mobile phone; EUT Model: HX5208

| • | |
|-----------------------------------|-------------------------------------|
| Test Data | 2015-12-11 |
| 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 Behind-repeated |
| Band | GSM 1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1880.0 |
| Relative permittivity (real part) | 51.68 |
| Conductivity (S/m) | 1.51 |
| Variation (%) | 0.03 |
| | |

Maximum location: X=16.00, Y=14.00 SAR Peak: 1.33 W/kg

| SAR 10g (W/Kg) | 0.499291 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.858027 |



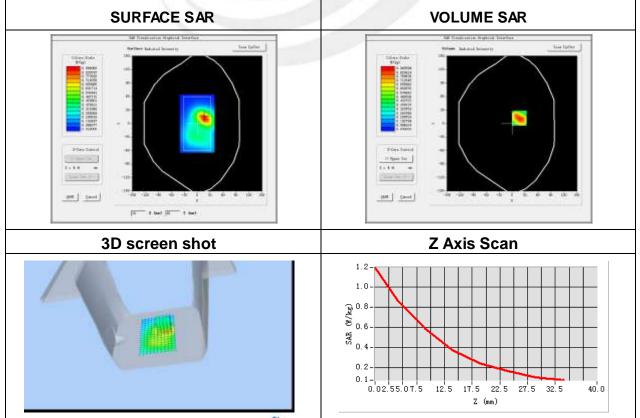


Plot 15: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|-------------------------------------|
| 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 Behind |
| Band | GSM 1900 |
| Channels | High |
| Signal | TDMA (Crest factor: 8.32) |
| Frequency (MHz) | 1909.8 |
| Relative permittivity (real part) | 51.68 |
| Conductivity (S/m) | 1.51 |
| Variation (%) | 2.36 |
| | |

Maximum location: X=17.00, Y=12.00 SAR Peak: 1.26 W/kg

| SAR 10g (W/Kg) | 0.493174 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.840973 |



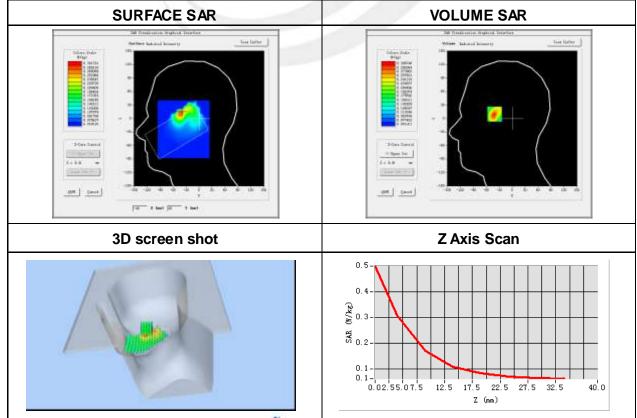


Plot 16: DUT: Mobile phone; EUT Model: HX5208

| • | |
|---|--|
| Test Data | 2015-12-11 |
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.11 |
| 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 | IEEE 802.11b ISM |
| Channels | High |
| Signal | IEEE802.b (Crest factor: 1.0) |
| Frequency (MHz) | 2462 |
| Relative permittivity (real part) | 37.8 |
| Conductivity (S/m) | 1.86 |
| Variation (%) | 0.59 |

Maximum location: X=-41.00, Y=16.00 SAR Peak: 0.50 W/kg

| | 3 |
|----------------|----------|
| SAR 10g (W/Kg) | 0.170625 |
| SAR 1g (W/Kg) | 0.297151 |



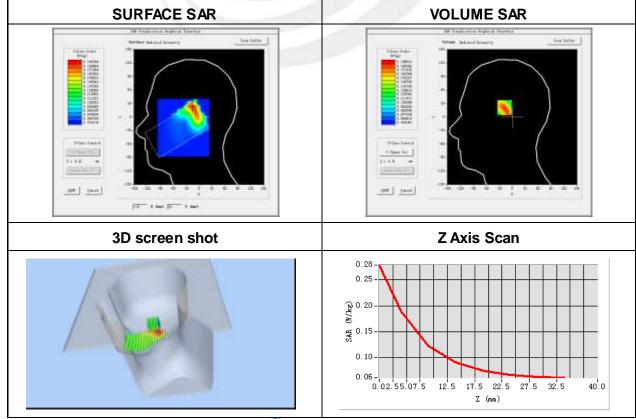


Plot 17: DUT: Mobile phone; EUT Model: HX5208

| 2015-12-11 |
|--|
| 22.70 |
| 22.30 |
| SN 17/14 EP221 |
| 4.11 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Right head |
| Tilt |
| IEEE 802.11b ISM |
| High |
| IEEE802.b (Crest factor: 1.0) |
| 2462 |
| 37.8 |
| 1.86 |
| -0.84 |
| |

Maximum location: X=-16.00, Y=24.00 SAR Peak: 0.28 W/kg

| SAR 10g (W/Kg) | 0.121241 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.182559 |



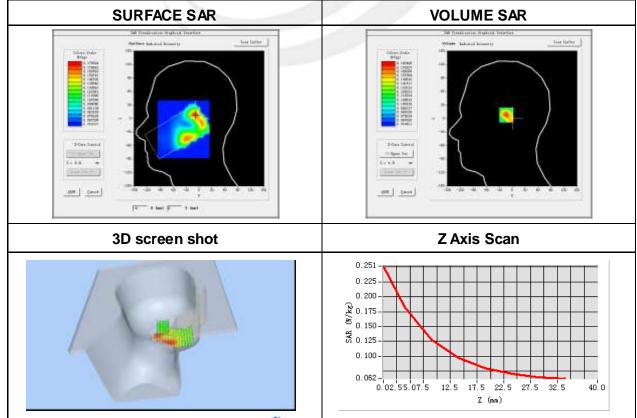


Plot 18: DUT: Mobile phone; EUT Model: HX5208

| 2015-12-11 |
|--|
| 22.70 |
| 22.30 |
| SN 17/14 EP221 |
| 4.11 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Left head |
| Cheek |
| IEEE 802.11b ISM |
| High |
| IEEE802.b (Crest factor: 1.0) |
| 2462 |
| 37.8 |
| 1.86 |
| -0.44 |
| |

Maximum location: X=-9.00, Y=8.00 SAR Peak: 0.25 W/kg

| | 3 |
|----------------|----------|
| SAR 10g (W/Kg) | 0.116967 |
| SAR 1g (W/Kg) | 0.174448 |



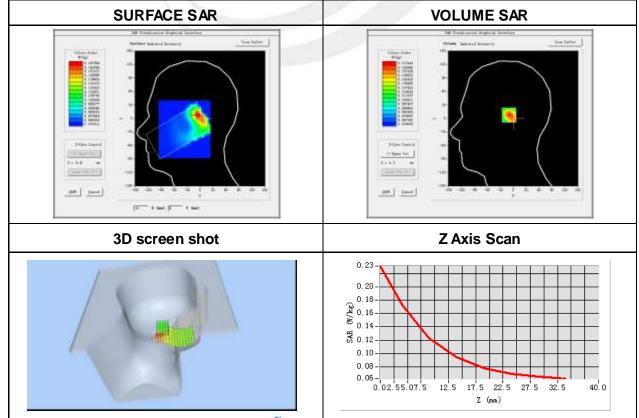


Plot 19: DUT: Mobile phone; EUT Model: HX5208

| • | |
|-----------------------------------|--|
| Test Data | 2015-12-11 |
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.11 |
| 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 | IEEE 802.11b ISM |
| Channels | High |
| Signal | IEEE802.b (Crest factor: 1.0) |
| Frequency (MHz) | 2462 |
| Relative permittivity (real part) | 51.2 |
| Conductivity (S/m) | 1.95 |
| Variation (%) | 0.25 |

Maximum location: X=-5.00, Y=8.00 SAR Peak: 0.23 W/kg

| | 3 |
|----------------|----------|
| SAR 10g (W/Kg) | 0.115116 |
| SAR 1g (W/Kg) | 0.165131 |



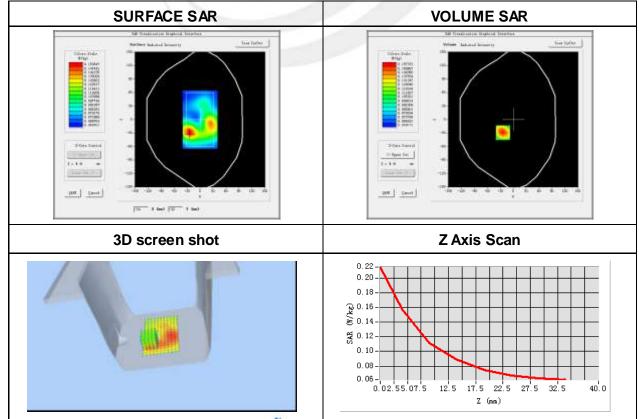


Plot 20: DUT: Mobile phone; EUT Model: HX5208

| Test Data | 2015-12-11 |
|-----------------------------------|--|
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.25 |
| 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 | IEEE 802.11b ISM |
| Channels | High |
| Signal | IEEE802.b (Crest factor: 1.0) |
| Frequency (MHz) | 2462 |
| Relative permittivity (real part) | 51.2 |
| Conductivity (S/m) | 1.95 |
| Variation (%) | 0.42 |
| | |

Maximum location: X=-24.00, Y=-29.00 SAR Peak: 0.22 W/kg

| | 3 |
|----------------|----------|
| SAR 10g (W/Kg) | 0.108814 |
| SAR 1g (W/Kg) | 0.153269 |



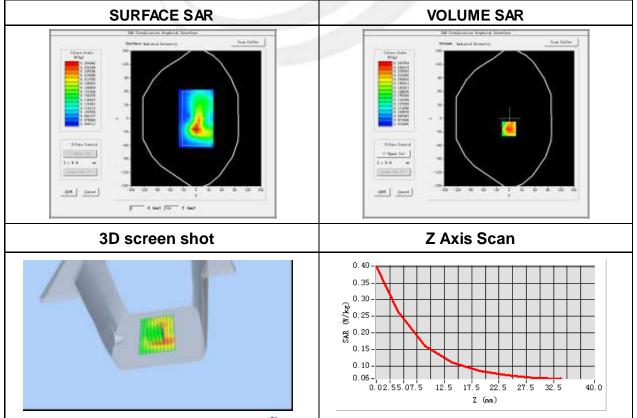


Plot 21: DUT: Mobile phone; EUT Model: HX5208

| • | |
|-----------------------------------|--|
| Test Data | 2015-12-11 |
| Ambient Temperature(°C) | 22.70 |
| Liquid Temperature(°C) | 22.30 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.25 |
| 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 | IEEE 802.11b ISM |
| Channels | High |
| Signal | IEEE802.b (Crest factor: 1.0) |
| Frequency (MHz) | 2462 |
| Relative permittivity (real part) | 51.2 |
| Conductivity (S/m) | 1.95 |
| Variation (%) | -0.40 |

Maximum location: X=-1.00, Y=-23.00 SAR Peak: 0.40 W/kg

| | 9 |
|----------------|----------|
| SAR 10g (W/Kg) | 0.157912 |
| SAR 1g (W/Kg) | 0.254921 |





Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

**** END OF THE REPORT*