



# FCC SAR TEST REPORT

Report No: STS1512011H01

Issued for

## COMMERCIAL LINK INTERNATIONAL S.A.S.

AV.suba No. 115-58 Centro llarco torre A oficina 703 BOGOTA, COLOMBIA

| Product Name:  | smart phone  |  |  |
|----------------|--|--|--|
| Brand Name:    | GLOBE, MULTITECH   |  |  |
| Model No.:     | V55  |  |  |
| Series Model:  | GB-SMP5000, GB-SMP5X, GB-SMP05, MT-MBP5000, MT-SMP05, MT-SMP5W |  |  |
| FCC ID:        | 2AGT8-V55  |  |  |
|                | ANSI/IEEE Std. C95.1   |  |  |
| Test Standard: | FCC 47 CFR Part 2 ( 2.1093)                                    |  |  |
|                | IEEE 1528: 2013  |  |  |
| May CAD (4.1)  | Head: 0.637 W/kg   |  |  |
| Max. SAR (1g): | Body:1.392 W/kg  |  |  |

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## **Test Report Certification**

Applicant's name .....: COMMERCIAL LINK INTERNATIONAL S.A.S

Address ...... AV.suba No. 115-58 Centro llarco torre A oficina 703 BOGOTA,

COLOMBIA

Manufacture's Name.....: SHENZHEN VASTKING ELECTRONIC CO.,LTD

Address .....: Building 6, ZhengZhong Industrial Park, Qiaotou Community,

Fuyong, Baoan, ShenZhen, China

**Product description** 

Product name .....: smart phone

Trademark .....: GLOBE, MULTITECH

Model and/or type reference : V55

GB-SMP5000,GB-SMP5X,GB-SMP05,MT-MBP5000,MT-SMP05,

Series Model...... MT-SMP5W

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 ...... 07 Dec. 2015

Date of Issue...... 10 Dec. 2015

Test Result..... Pass

Testing Engineer: Allen Chen

(Allen Chen)

Technical Manager:

Authorized Signatory:

(John Zou)

12000 100

(Bovey Yang)







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## 1. General Information

## 1.1 EUT Description

| Equipment                   | smart phone  |   |
|-----------------------------|--|---|
| Brand Name                  | GLOBE, MULTITECH   |   |
| Model No.                   | V55  |   |
| Series Model                | GB-SMP5000,GB-SMP5X,GB<br>MT-SMP5W   | B-SMP05,MT-MBP5000,MT-SMP0,   |
| FCC ID                      | 2AGT8-V55  |   |
| Model Difference            | Only different in model name   | and brand name  |
| Adapter                     | Input: AC100-240V, 0.2A, 50/<br>Output: DC 5V, 1500mA  | /60 Hz  |
| Battery                     | Rated Voltage: 3.8V<br>Charge Limit: 4.35V<br>Capacity: 2600mAh  |   |
| Hardware Version            | MF0MCB1C1-1  |   |
| Software Version            | N/A  |   |
| Frequency Range             | GSM 850:824.2 ~ 848.8 MHz<br>PCS1900:1850.2 ~ 1909.8 M<br>WCDMA II:1852.4~1907.6 M<br>WCDMA V:826.4~846.6 MHz<br>WLAN 802.11 b/g/n(HT20):24<br>Bluetooth:2402~2480 MHz | Hz<br>Hz<br>:<br>412~2462 MHz   |
| Transmit<br>Power(Average): | GSM 850: 30.15dBm<br>GSM 1900: 28.05dBm<br>WCDMA II: 20.50dBm<br>WCDMA V: 21.81dBm   | 802.11b: 18.7dBm<br>802.11g: 16.6dBm<br>802.11 n(HT20): 16.2dBm<br>802.11 n(HT40): 11.4dBm<br>Bluetooth: 5.453dBm       |
| Max. Reported SAR(1g):      | Head: GSM 850: 0.637 W/kg GSM 1900: 0.085 W/kg WCDMA II: 0.264 W/kg WCDMA V: 0.521 W/kg WIFI: 0.193 W/kg   | Body:<br>GSM 850: 1.362 W/kg<br>GSM 1900: 1.392 W/kg<br>WCDMA II: 1.376 W/kg<br>WCDMA V: 0.716 W/kg<br>WIFI: 0.116 W/kg |
| Operating Mode:             | GSM: GSM Voice, GPRS, ECWCDMA: RMC, HSDPA, HSUWLAN: 802.11 b/g/n;  | JPA Release 6;  |
|                             | Bluetooth: V4.0 + EDR (GFSI  | ,   |
| Antenna Specification:      | GSM/WCDMA: PIFA Antenna<br>BT/WIFI: PIFA Antenna   | 1   |
| Hotspot Mode:               | Support  |   |
| DTM Mode:                   | Not Support  |   |



## 1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

## 1.3 Test Factory

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.: STS1512011H01



| 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 v06                 | Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies  |
| 5   | FCC KDB 865664 D01 v01r04              | SAR Measurement 100 MHz to 6 GHz  |
| 6   | FCC KDB 865664 D02 v01r02              | RF Exposure Reporting   |
| 7   | FCC KDB 941225 D01 v03r01              | SAR Measurement Procedures for 3G Devices   |
| 8   | FCC KDB 248227 D01 Wi-Fi<br>SAR v02r02 | SAR Considerations for 802.11 Devices   |

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 ( $\rho$ ). 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

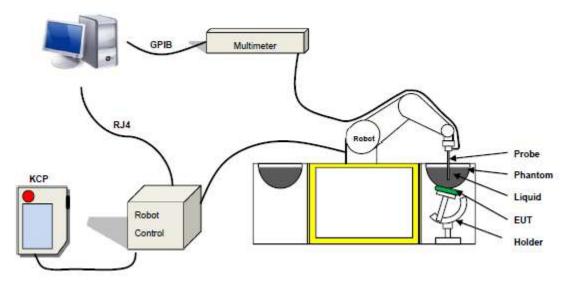
$$SAR = \frac{\sigma E^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,

 $\rho$  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°

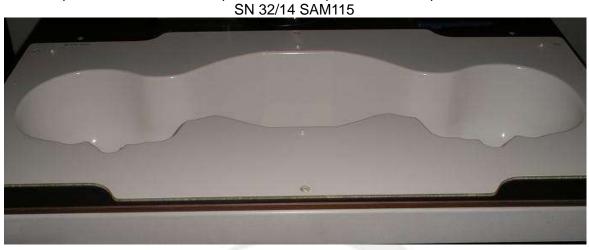


Figure 1 - Satimo COMOSAR Dosimetric E field Dipole



#### 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

#### 4.1 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: December.07, 2015 Ambient condition: Temperature 22.0°C Relative humidity: 49%

| Head Simulating Liquid |               | Danie vietera | Tanad  | Manageral | Desire Constant | 1 ''( 400/1 |  |
|------------------------|---------------|---------------|--------|-----------|-----------------|-------------|--|
| Frequency              | Temp.<br>[°C] | Parameters    | Target | Measured  | Deviation[%]    | Limited[%]  |  |
| 835 MHz                | 21.5          | Permitivity:  | 41.5   | 41.3      | -0.48           | ±5          |  |
| 000 WII 12             | 21.0          | Conductivity: | 0.9    | 0.94      | 4.44            | ± 5         |  |
| 1900 MHz               | Hz 21.5       | Permitivity:  | 40.0   | 40.11     | 0.27            | ± 5         |  |
| 1900 WI12              | 21.5          | Conductivity: | 1.4    | 1.43      | 2.14            | ± 5         |  |
| 2450 MHz               | 21.5          | Permitivity:  | 39.2   | 39.6      | 1.02            | ± 5         |  |
| 2450 WIT IZ            | 21.5          | Conductivity: | 1.8    | 1.82      | 1.11            | ± 5         |  |

| Body Simulating Liquid |               | Damanalana    | Towns  | M        | D            | 1 :: 100/1 |  |
|------------------------|---------------|---------------|--------|----------|--------------|------------|--|
| Frequency              | Temp.<br>[°C] | Parameters    | Target | Measured | Deviation[%] | Limited[%] |  |
| 835 MHz                | 21.5          | Permitivity:  | 55.2   | 55.31    | 0.20         | ± 5        |  |
| 033 WI 12              | 21.5          | Conductivity: | 0.97   | 0.974    | 0.41         | ± 5        |  |
| 1900 MHz               | 21.5          | Permitivity:  | 53.3   | 52.4     | -1.69        | ± 5        |  |
| 1900 WHZ               | 21.5          | Conductivity: | 1.52   | 1.56     | 2.63         | ± 5        |  |
| 0450 MH-               | 04.5          | Permitivity:  | 52.7   | 52.74    | 0.08         | ± 5        |  |
| 2450 MHz               | 21.5          | Conductivity: | 1.95   | 1.99     | 2.05         | ± 5        |  |

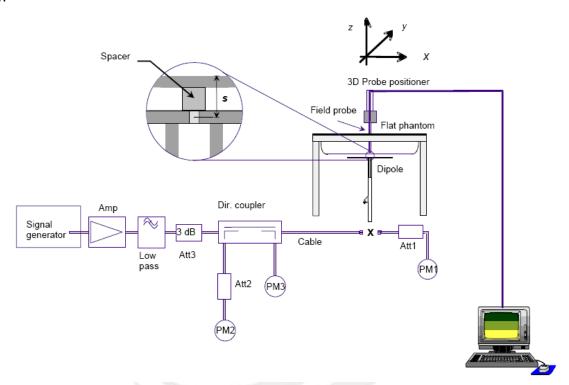


## 5. SAR System Validation

#### 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 22.7°C Relative humidity: 49%

| Freq.(MHz) | Power(mW) | Tested<br>Value<br>(W/Kg) | Normalized<br>SAR<br>(W/kg) | Target(W/Kg) | Tolerance(%) | Date       |
|------------|-----------|---------------------------|-----------------------------|--------------|--------------|------------|
| 835 Head   | 100       | 0.928                     | 9.28                        | 9.56         | 3.02         | 2015-12-07 |
| 835 Body   | 100       | 0.988                     | 9.88                        | 9.56         | -3.24        | 2015-12-07 |
| 1900 Head  | 100       | 3.892                     | 38.92                       | 39.8         | 2.26         | 2015-12-07 |
| 1900 Body  | 100       | 4.124                     | 41.24                       | 39.8         | -3.49        | 2015-12-07 |
| 2450 Head  | 100       | 5.156                     | 51.56                       | 52.4         | 1.63         | 2015-12-07 |
| 2450 Body  | 100       | 5.108                     | 51.08                       | 52.4         | 2.58         | 2015-12-07 |

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 Antenna Location Sketch

It is a smart phone, support GSM mode and WCDMA mode.





WWAN Antenna



WIFI/BT Antenna



#### 7.1 SAR TEST EXCLUSION CONSIDER TABLE

According with FCC KDB 447498 D01v05r02, appendix A, <SAR test exclusion thresholds for 100MHz~6GHz and ≤50mm>table, this device SAR test configurations consider as following:

|               | Test position configurations |      |              |               |             |             |  |  |
|---------------|------------------------------|------|--------------|---------------|-------------|-------------|--|--|
| Band          | Front                        | Back | Left<br>edge | Right<br>edge | Top<br>edge | Bottom edge |  |  |
| 0014050       | <5mm                         | <5mm | <5mm         | <5mm          | 115mm       | <5mm        |  |  |
| GSM850        | Yes                          | Yes  | Yes          | Yes           | No          | Yes         |  |  |
| 00044000      | <5mm                         | <5mm | <5mm         | <5mm          | 115mm       | <5mm        |  |  |
| GSM1900       | Yes                          | Yes  | Yes          | Yes           | No          | Yes         |  |  |
| WODANA D. TO  | <5mm                         | <5mm | <5mm         | <5mm          | 115mm       | <5mm        |  |  |
| WCDMA Band2   | Yes                          | Yes  | Yes          | Yes           | No          | Yes         |  |  |
| \\(\(\sigma\) | <5mm                         | <5mm | <5mm         | <5mm          | 115mm       | <5mm        |  |  |
| WCDMA Band5   | Yes                          | Yes  | Yes          | Yes           | No          | Yes         |  |  |
| 14/1 441      | <5mm                         | <5mm | <5mm         | 45mm          | <5mm        | 115mm       |  |  |
| WLAN          | Yes                          | Yes  | Yes          | No            | Yes         | No          |  |  |
|               | <5mm                         | <5mm | <5mm         | 45mm          | <5mm        | 115mm       |  |  |
| Bluetooth     | Yes                          | Yes  | Yes          | No            | Yes         | No          |  |  |

#### Note:

- 1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
- 2. per KDB 447498 D01v05r02, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 3. per KDB 447498 D01v05r02, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold
- 4. per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:
  - [(max.power of channel, including tune-up tolerance, Mw)/( min. test separation distance, mm)]\*[ $\sqrt{f(GHZ)}$ ) $\leq$ 3.0 for 1-g SAR and $\leq$ 7.5 for10-g extremity SAR
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison
  - For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare
- 5. per KDB 447498 D01v05r02, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
  - a)[threshold at 50mm in step 1]+(test separation distance -50mm)\*(f (MHz)/150)]Mw, at 100 MHz to 1500 MHz
  - b) [threshold at 50mm in step1]+( test separation distance -50mm) \*10]mW at>1500MHz and≤ 6GHz



- Per KDB 447498 D02v02r02,RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA/DC-HSDPA output power is<0.25db higher than RMC 12.2Kbps,or reported SAR with RMC 12.2kbps setting is ≤1.2W/Kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
- 7. Per KDB 248227 D01v01r02, choose the highest output power channel to test SAR and determine futher SAR exclusion 8.for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.





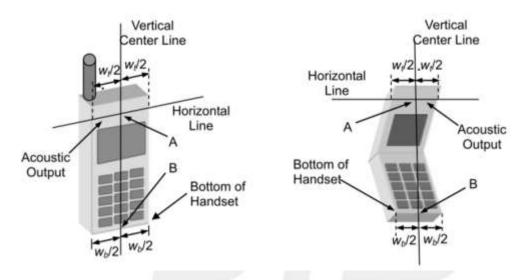


#### 8. EUT Test Position

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

#### 8.1 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

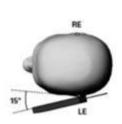
- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.











Report No.: STS1512011H01

#### **Body-worn Position Conditions**

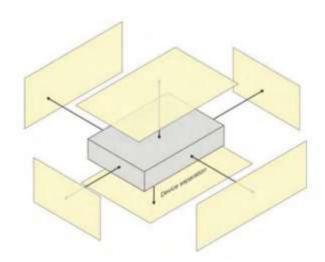
- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





#### 8.2 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).





# 9. Uncertainty

## **9.1 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.

|        | 1   | T      | T              | T         | T                     | T                     | ı    |       |      |
|--------|---|--------|----------------|-----------|-----------------------|-----------------------|------|-------|------|
| NO     | Source  | Tol(%) | Prob.<br>Dist. | Div.<br>k | ci<br>(1g)            | ci<br>(10g)           | 1gUi | 10gUi | Veff |
| Nez    |   |        |                |           |                       |                       |      |       |      |
| 1      | Probe calibration                               | 5.8    | N              | 1         | 1                     | 1                     | 5.8  | 5.8   | ∞    |
| 2      | Axial isotropy                                  | 3.5    | R              | √3        | (1-cp) <sup>1/2</sup> | (1-cp) <sup>1/2</sup> | 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  | 80   |
| 6      | System Detection limits                         | 1.0    | R              | √3        | 1                     | 1                     | 0.58 | 0.58  | 80   |
| 7      | Readout<br>electronics                          | 0.5    | N              | 1         | 1                     | 1                     | 0.50 | 0.50  | 80   |
| 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<br>evaluation                           | 1.0    | R              | √3        | 1                     | 1                     | 0.6  | 0.6   | 8    |
| Test s | 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    |
|        |   | l .    |                | L         | L                     | l .                   | l    |       |      |



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|                | 4.7                          |                   |     |   |      |        |        |        |   |  |
|----------------|------------------------------|-------------------|-----|---|------|--------|--------|--------|---|--|
| 17             | Drift of output power        | 5.0               | R   | √3  | 1    | 1      | 2.89   | 2.89   | ∞ |  |
| Phant          | Phantom and set-up           |                   |     |   |      |        |        |        |   |  |
| 18             | Phantom<br>uncertainty       | 4.0               | R   | √3  | 1    | 1      | 2.31   | 2.31   | ∞ |  |
| 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   | ∞ |  |
| 22             | Liquid Permittivity (meas)   | 5.0               | N   | 1   | 0.23 | 0.26   | 1.15   | 1.30   | 8 |  |
| Comb           | ined standard                |                   | RSS | RSS $U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ |      |        | 10.63% | 10.54% |   |  |
| Expar<br>(P=95 | nded uncertainty<br>5%)      | $U=k\;U_{C}$ ,k=2 |     |   |      | 21.26% | 21.08% |        |   |  |



# 9.2 System validation Uncertainty

|        | T   | Τ       |                | Τ         | T                     | Τ                     |      |       |      |  |  |
|--------|---|---------|----------------|-----------|-----------------------|-----------------------|------|-------|------|--|--|
| NO     | Source  | Tol(% ) | Prob.<br>Dist. | Div.<br>k | ci<br>(1g)            | ci<br>(10g)           | 1gUi | 10gUi | Veff |  |  |
| Næ     | Nestero de la constante de la |         |                |           |                       |                       |      |       |      |  |  |
| 1      | Probe calibration   | 5.8     | N              | 1         | 1                     | 1                     | 5.8  | 5.8   | 80   |  |  |
| 2      | Axial isotropy  | 3.5     | R              | √3        | (1-cp) <sup>1/2</sup> | (1-cp) <sup>1/2</sup> | 1.43 | 1.43  | ∞    |  |  |
| 3      | Hemispherical isotropy  | 5.9     | R              | √3        | √Cp                   | $\sqrt{C_p}$          | 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<br>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  | ∞    |  |  |
| 15     | Max.SAR<br>evaluation   | 1.0     | R              | √3        | 1                     | 1                     | 0.6  | 0.6   | ∞    |  |  |
| Dipole | 9   |         |                |           |                       |                       |      |       |      |  |  |
| 16     | Deviation of experimental source from   | 4       | N              | 1         | 1                     | 1                     | 4.00 | 4.00  | ∞    |  |  |
| 17     | Input power and SAR drit measurement  | 5       | R              | √3        | 1                     | 1                     | 2.89 | 2.89  | ∞    |  |  |



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| 18             | Dipole Axis to liquid Distance                 | 2                          | R   | √3  | 1    | 1      |        |        | ∞ |  |
|----------------|--|----------------------------|-----|---|------|--------|--------|--------|---|--|
| Phant          | Phantom and set-up                             |                            |     |   |      |        |        |        |   |  |
| 19             | Phantom uncertainty                            | 4.0                        | R   | √3  | 1    | 1      | 2.31   | 2.31   | ∞ |  |
| 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   | ∞ |  |
| Comb           | nined standard                                 |                            | RSS | $U_{c} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ |      | 10.15% | 10.05% |        |   |  |
| Expar<br>(P=95 | nded uncertainty<br>%)                         | $U$ = $k$ $U_{\it C}$ ,k=2 |     |   |      |        | 21.29% | 21.10% |   |  |



#### 10. Conducted Power Measurement

#### **Test Result:**

| Maximum Burst-Averaged 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)                         | 30.02 | 30.15   | 29.89 | 28.00    | 27.92  | 28.05  |  |  |
| GPRS (GMSK, 1-Slot)                       | 29.95 | 30.09   | 29.86 | 27.92    | 27.87  | 28.00  |  |  |
| GPRS (GMSK, 2-Slot)                       | 29.04 | 29.26   | 29.06 | 27.00    | 27.08  | 27.20  |  |  |
| GPRS (GMSK, 3-Slot)                       | 27.74 | 27.90   | 27.72 | 25.62    | 25.71  | 25.96  |  |  |
| GPRS (GMSK, 4-Slot)                       | 27.20 | 27.23   | 27.16 | 25.08    | 25.08  | 25.26  |  |  |
| EGPRS (GMSK, 1-Slot)                      | 29.94 | 30.01   | 29.81 | 27.84    | 27.84  | 27.91  |  |  |
| EGPRS (GMSK, 2-Slot)                      | 28.96 | 29.09   | 28.91 | 27.08    | 27.01  | 27.07  |  |  |
| EGPRS (GMSK, 3-Slot)                      | 27.72 | 27.72   | 27.55 | 25.73    | 25.73  | 25.78  |  |  |
| EGPRS (GMSK, 4-Slot)                      | 27.20 | 27.14   | 26.88 | 25.05    | 25.11  | 25.22  |  |  |

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

| Maximum Frame-Averaged 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)                        | 21.02 | 21.15   | 20.89 | 19.00    | 18.92  | 19.05  |  |  |
| GPRS (GMSK, 1-Slot)                      | 20.95 | 21.09   | 20.86 | 18.92    | 18.87  | 19.00  |  |  |
| GPRS (GMSK, 2-Slot)                      | 23.04 | 23.26   | 23.06 | 21.00    | 21.08  | 21.20  |  |  |
| GPRS (GMSK, 3-Slot)                      | 23.48 | 23.64   | 23.46 | 21.36    | 21.45  | 21.70  |  |  |
| GPRS (GMSK, 4-Slot)                      | 24.20 | 24.23   | 24.16 | 22.08    | 22.08  | 22.26  |  |  |
| EGPRS (GMSK, 1-Slot)                     | 20.94 | 21.01   | 20.81 | 18.84    | 18.84  | 18.91  |  |  |
| EGPRS (GMSK, 2-Slot)                     | 22.96 | 23.09   | 22.91 | 21.08    | 21.01  | 21.07  |  |  |
| EGPRS (GMSK, 3-Slot)                     | 23.46 | 23.46   | 23.29 | 21.47    | 21.47  | 21.52  |  |  |
| EGPRS (GMSK, 4-Slot)                     | 24.20 | 24.14   | 23.88 | 22.05    | 22.11  | 22.22  |  |  |

#### 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



| Band            | WCDMA Band V |       |       | WCDMA Band II |        |        |
|-----------------|--------------|-------|-------|---------------|--------|--------|
| Channel         | 4132         | 4182  | 4233  | 9263          | 9400   | 9537   |
| Frequency (MHz) | 826.4        | 836.6 | 846.6 | 1852.4        | 1880.0 | 1907.6 |
| RMC 12.2Kbps    | 21.80        | 21.81 | 21.76 | 20.34         | 20.40  | 20.50  |
| HSDPA Subtest-1 | 21.75        | 21.75 | 21.71 | 20.32         | 20.38  | 20.41  |
| HSDPA Subtest-2 | 20.83        | 21.00 | 20.90 | 19.46         | 19.51  | 19.54  |
| HSDPA Subtest-3 | 19.51        | 19.78 | 19.54 | 18.17         | 18.29  | 18.20  |
| HSDPA Subtest-4 | 18.88        | 19.20 | 18.97 | 17.53         | 17.77  | 17.63  |
| HSUPA Subtest-1 | 21.65        | 21.71 | 21.62 | 20.26         | 20.28  | 20.31  |
| HSUPA Subtest-2 | 20.82        | 20.86 | 20.72 | 19.46         | 19.48  | 19.44  |
| HSUPA Subtest-3 | 19.51        | 19.63 | 19.38 | 18.12         | 18.13  | 18.08  |
| HSUPA Subtest-4 | 18.84        | 19.07 | 18.82 | 17.44         | 17.55  | 17.45  |
| HSUPA Subtest-5 | 18.24        | 18.51 | 18.15 | 16.91         | 16.97  | 16.94  |

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

| UE Transmit Channel Configuration                                 | CM(db)    | MPR(db)     |
|---|-----------|-------------|
| For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH | 0≤ CM≤3.5 | MAX(CM-1,0) |

Note: CM=1 for  $\beta c/\beta d=12/15$ ,  $\beta hs/\beta c=24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH.

E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done. However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX\_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



| Mode           | Channel<br>Number | Frequency<br>(MHz) | Average Power<br>(dBm) |
|----------------|-------------------|--------------------|------------------------|
|                | 1                 | 2412               | 18.1                   |
| 802.11b        | 6                 | 2437               | 17.4                   |
|                | 11                | 2462               | 18.7                   |
|                | 1                 | 2412               | 16.0                   |
| 802.11g        | 6                 | 2437               | 16.6                   |
|                | 11                | 2462               | 15.9                   |
|                | 1                 | 2412               | 16.0                   |
| 802.11n(HT-20) | 6                 | 2437               | 16.2                   |
|                | 11                | 2462               | 16.0                   |
|                | 3                 | 2422               | 11.1                   |
| 802.11n(HT-40) | 6                 | 2437               | 12.2                   |
|                | 9                 | 2452               | 11.4                   |

Justification for test configurations for WLAN per KDB publication 248227 D01Wi-Fi SAR v02:

- 1. Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- 2. For transmission modes with the same maximum output power specification, power were measured for the largest Channel bandwidth, lowest order modulation and lowest data rate.
- 3. For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- 4. For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- 5. The bolded data rate and channel above were tested for SAR.

#### **Bluetooth**

| Mode            | Channel<br>Number | Frequency<br>(MHz) | Average Power<br>(dBm) |
|-----------------|-------------------|--------------------|------------------------|
|                 | 0                 | 2402               | 5.453                  |
| GFSK(1M)        | 39                | 2441               | 4.607                  |
|                 | 78                | 2480               | 4.310                  |
|                 | 0                 | 2402               | 4.907                  |
| π/4-DQPSK(2bps) | 39                | 2441               | 4.096                  |
|                 | 78                | 2480               | 3.927                  |
|                 | 0                 | 2402               | 4.745                  |
| 8-DPSK(3Mbps)   | 39                | 2441               | 3.958                  |
|                 | 78                | 2480               | 3.816                  |



#### BT 4.0

| Mode     | Channel<br>Number | Frequency<br>(MHz) | Average Power<br>(dBm) |
|----------|-------------------|--------------------|------------------------|
|          | 1                 | 2402               | -2.222                 |
| GFSK(1M) | 20                | 2440               | -2.617                 |
|          | 40                | 2480               | -2.905                 |





| Mode           | GSM850(AVG) | GSM1900(AVG) |
|----------------|-------------|--------------|
| GSM/PCS        | 30±1dBm     | 28±1dBm      |
| GPRS (1 Slot)  | 30±1dBm     | 27±1dBm      |
| GPRS (2 Slot)  | 29±1dBm     | 27±1dBm      |
| GPRS (3 Slot)  | 27±1dBm     | 25±1dBm      |
| GPRS (4 Slot)  | 27±0.5dBm   | 25±0.5dBm    |
| EGPRS (1 Slot) | 30±1dBm     | 27±1dBm      |
| EGPRS (2 Slot) | 29±1dBm     | 27±1dBm      |
| EGPRS (3 Slot) | 27±1dBm     | 25±1dBm      |
| EGPRS (4 Slot) | 27±1dBm     | 25±1dBm      |

| Mode            | WCDMA Band V(AVG) | WCDMA Band II(AVG) |
|-----------------|-------------------|--------------------|
| AMR             | 21±1dBm           | 20±1dBm            |
| HSDPA Subtest-1 | 21±1dBm           | 20±1dBm            |
| HSDPA Subtest-2 | 21±1dBm           | 19±1dBm            |
| HSDPA Subtest-3 | 19±1dBm           | 18±1dBm            |
| HSDPA Subtest-4 | 19±1dBm           | 17±1dBm            |
| HSUPA Subtest-1 | 21±1dBm           | 20±1dBm            |
| HSUPA Subtest-2 | 20±1dBm           | 19±1dBm            |
| HSUPA Subtest-3 | 19±1dBm           | 18±1dBm            |
| HSUPA Subtest-4 | 19±1dBm           | 17±1dBm            |
| HSUPA Subtest-5 | 18±1dBm           | 16±1dBm            |

| Mode              | WIFI(AVG) |
|-------------------|-----------|
| IEEE 802.11b      | 18.0±1dBm |
| IEEE 802.11g      | 16.0±1dBm |
| IEEE 802.11n HT20 | 16.0±1dBm |
| IEEE 802.11n HT40 | 12.3±1dBm |

| Mode      | BT(AVG) |
|-----------|---------|
| GFSK      | 5±1dBm  |
| π/4-DQPSK | 4±1dBm  |
| 8DPSK     | 4±1dBm  |

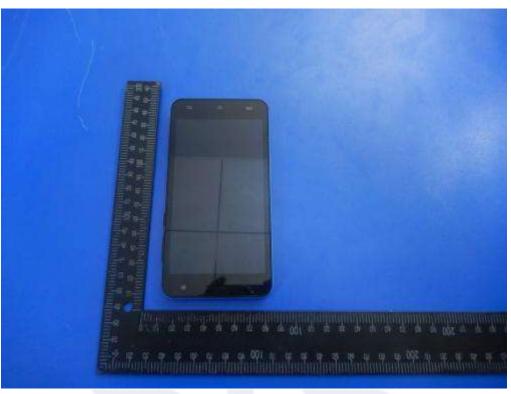
| Mode | BT4.0(AVG) |  |  |  |  |
|------|------------|--|--|--|--|
| GFSK | -2±1dBm    |  |  |  |  |



# 11. EUT And Test Setup Photo

## 11.1 EUT Photo





Back side





Top side



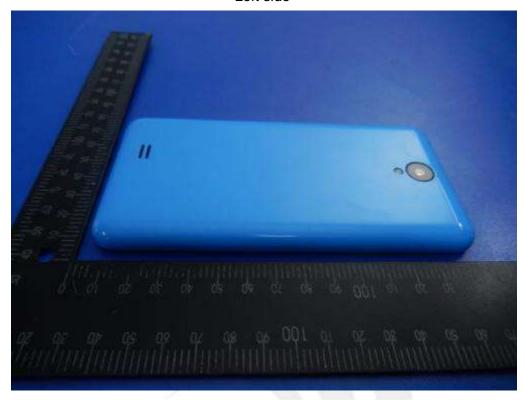
Bottom side



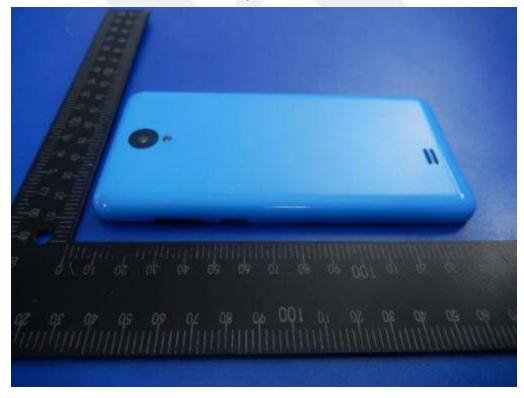




Left side

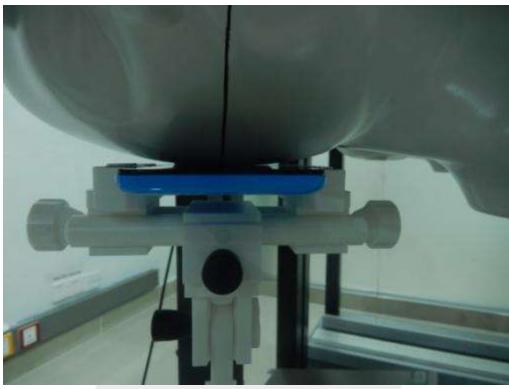


Right side

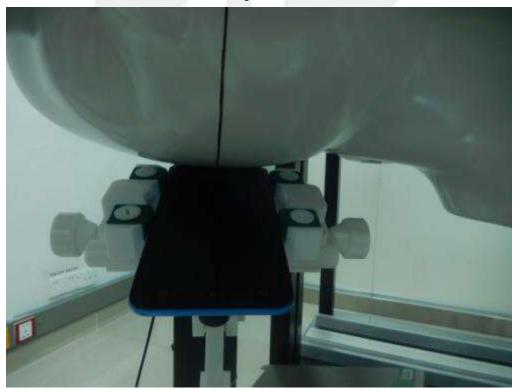








Right Tilt

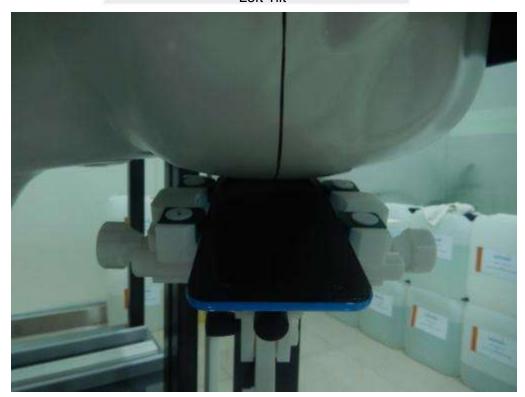




#### Left Touch

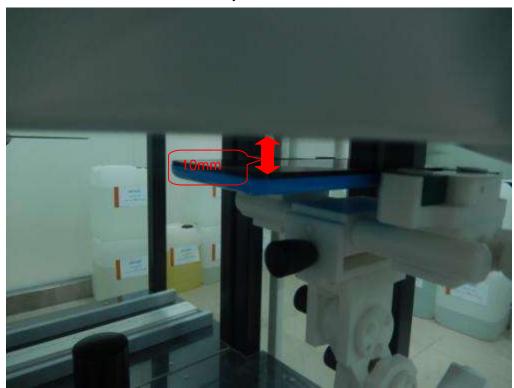


Left Tilt

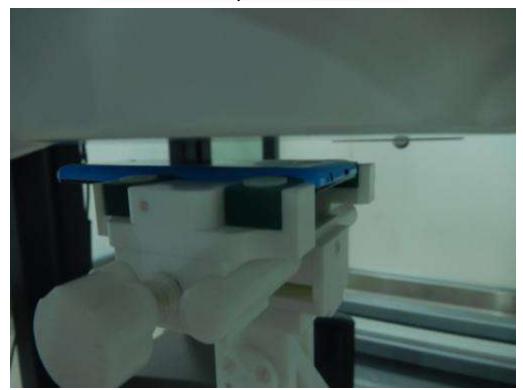




## Body Front side

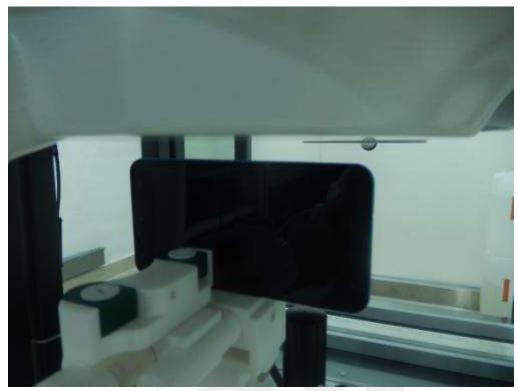


Body Back side

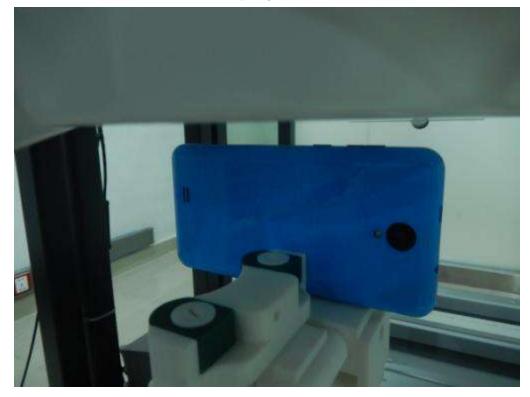




## Body Left side



Body Right side

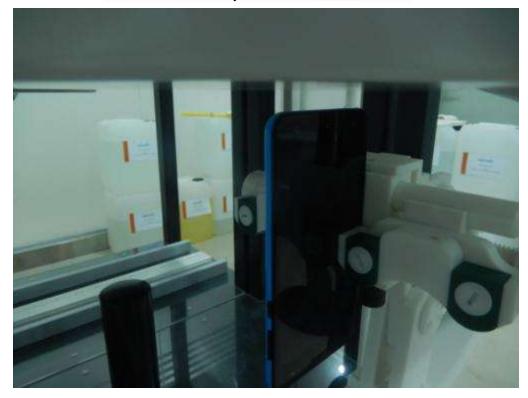




## Body Top side



**Body Bottom side** 





Liquid depth (15 cm)





# 12. SAR Result Summary

## 12.1 Head SAR

| Band     | Mode  | Test<br>Position | Channel | Result 1g<br>(W/Kg) | Power<br>Drift(%) | Max.Turn-up<br>Power(dBm) | Meas.Output<br>Power(dBm) | Scaled<br>SAR<br>(W/Kg) | Meas.<br>No. |
|----------|-------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|-------------------------|--------------|
| GSM 850  | Voice | Right<br>Cheek   | CH 190  | 0.524               | 0.66              | 31                        | 30.15                     | 0.637                   | 1            |
|          |       | Right<br>Tilt    | CH 190  | 0.329               | 0.36              | 31                        | 30.15                     | 0.400                   | 2            |
|          |       | Left<br>Cheek    | CH 190  | 0.509               | -0.85             | 31                        | 30.15                     | 0.619                   | 3            |
|          |       | Left Tilt        | CH 190  | 0.322               | 1.03              | 31                        | 30.15                     | 0.392                   | 4            |
| GSM1900  | Voice | Right<br>Cheek   | CH 810  | 0.047               | -0.59             | 29                        | 28.05                     | 0.058                   | 19           |
|          |       | Right<br>Tilt    | CH 810  | 0.025               | 1.23              | 29                        | 28.05                     | 0.031                   | 20           |
|          |       | Left<br>Cheek    | CH 810  | 0.068               | 0.20              | 29                        | 28.05                     | 0.085                   | 21           |
|          |       | Left Tilt        | CH 810  | 0.021               | 1.22              | 29                        | 28.05                     | 0.026                   | 22           |
|          | RMC   | Right<br>Cheek   | CH 9537 | 0.172               | -0.30             | 21                        | 20.50                     | 0.193                   | 31           |
| WCDMA II |       | Right<br>Tilt    | CH 9537 | 0.099               | 0.03              | 21                        | 20.50                     | 0.111                   | 32           |
|          |       | Left<br>Cheek    | CH 9537 | 0.235               | -0.02             | 21                        | 20.50                     | 0.264                   | 33           |
|          |       | Left Tilt        | CH 9537 | 0.087               | -0.97             | 21                        | 20.50                     | 0.098                   | 34           |
| WCDMA V  | RMC   | Right<br>Cheek   | CH4182  | 0.499               | 0.24              | 22                        | 21.81                     | 0.521                   | 43           |
|          |       | Right<br>Tilt    | CH4182  | 0.275               | -0.02             | 22                        | 21.81                     | 0.287                   | 44           |
|          |       | Left<br>Cheek    | CH4182  | 0.481               | -0.94             | 22                        | 21.81                     | 0.503                   | 45           |
|          |       | Left Tilt        | CH4182  | 0.284               | 0.01              | 22                        | 21.81                     | 0.297                   | 46           |

| Band | Mode | Test<br>Position | Channel | Result 1g<br>(W/Kg) | Power<br>Drift(%) | Max.Turn-up<br>Power(dBm) | Meas.Output<br>Power(dBm) | Duty<br>cycle(%) | Scaled<br>SAR<br>(W/Kg) | Meas.<br>No. |
|------|------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|------------------|-------------------------|--------------|
| WIFI | DATA | Right<br>Cheek   | CH11    | 0.180               | -1.32             | 19                        | 18.7                      | 100              | 0.193                   | 52           |
|      |      | Right<br>Tilt    | CH11    | 0.127               | -0.16             | 19                        | 18.7                      | 100              | 0.136                   | 53           |
|      |      | Left<br>Cheek    | CH11    | 0.104               | -0.62             | 19                        | 18.7                      | 100              | 0.111                   | 54           |
|      |      | Left Tilt        | CH11    | 0.089               | -0.90             | 19                        | 18.7                      | 100              | 0.095                   | 55           |



#### 12.2 Body SAR And Hotspot

| Band        | Mode               | Test<br>Position | Channel | Result 1g<br>(W/Kg) | Power<br>Drift(%) | Max.Turn-up<br>Power(dBm) | Meas.Output<br>Power(dBm) | Scaled<br>SAR<br>(W/Kg) | Meas.<br>No. |
|-------------|--------------------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|-------------------------|--------------|
|             |                    | Front side       | CH 128  | 0.975               | 0.48              | 27.5                      | 27.23                     | 1.038                   | 5            |
|             |                    | Front side       | CH 190  | 0.867               | 0.09              | 27.5                      | 27.23                     | 0.923                   | 7            |
|             |                    | Front side       | CH 251  | 0.750               | 0.03              | 27.5                      | 27.23                     | 0.798                   | 8            |
|             |                    | Back side        | CH 128  | 1.280               | -3.43             | 27.5                      | 27.23                     | 1.362                   | 9            |
|             | GPRS               | Back side        | CH 190  | 1.131               | -1.38             | 27.5                      | 27.23                     | 1.204                   | 11           |
| GSM         | Data-4 Slot        | Back side        | CH 251  | 0.924               | -2.92             | 27.5                      | 27.23                     | 0.983                   | 12           |
| 850         | ( hotspot )        | Left side        | CH 190  | 0.593               | -1.26             | 27.5                      | 27.23                     | 0.631                   | 13           |
|             |                    | Right side       | CH 128  | 0.876               | 4.77              | 27.5                      | 27.23                     | 0.932                   | 14           |
|             |                    | Right side       | CH 190  | 0.817               | -2.95             | 27.5                      | 27.23                     | 0.869                   | 16           |
|             |                    | Right side       | CH 251  | 0.688               | -4.87             | 27.5                      | 27.23                     | 0.732                   | 17           |
|             |                    | Bottom side      | CH 190  | 0.166               | 0.26              | 27.5                      | 27.23                     | 0.177                   | 18           |
|             |                    | Front side       | CH 810  | 0.429               | 0.81              | 25.5                      | 25.26                     | 0.453                   | 23           |
|             |                    | Back side        | CH 512  | 1.245               | 2.33              | 25.5                      | 25.26                     | 1.316                   | 24           |
|             | GPRS<br>Data-4Slot | Back side        | CH 661  | 1.064               | -0.09             | 25.5                      | 25.26                     | 1.124                   | 26           |
| GSM<br>1900 |                    | Back side        | CH 810  | 0.763               | 0.77              | 25.5                      | 25.26                     | 0.806                   | 27           |
| 1900        | ( hotspot )        | Left side        | CH 810  | 0.089               | -4.43             | 25.5                      | 25.26                     | 0.094                   | 28           |
|             |                    | Right side       | CH 810  | 0.028               | -4.90             | 25.5                      | 25.26                     | 0.030                   | 29           |
|             |                    | Bottom side      | CH 810  | 0.420               | 4.44              | 25.5                      | 25.26                     | 0.444                   | 30           |
|             |                    | Front side       | CH 9537 | 0.608               | -1.33             | 21                        | 20.5                      | 0.682                   | 35           |
|             |                    | Back side        | CH 9263 | 1.226               | 1.06              | 21                        | 20.5                      | 1.376                   | 36           |
| MODIMA      | RMC                | Back side        | CH 9400 | 1.119               | -0.66             | 21                        | 20.5                      | 1.256                   | 38           |
| WCDMA       | ( body-worn        | Back side        | CH 9537 | 1.168               | -4.49             | 21                        | 20.5                      | 1.311                   | 39           |
|             | and hotspot)       | Left side        | CH 9537 | 0.230               | 0.01              | 21                        | 20.5                      | 0.258                   | 40           |
|             |                    | Right side       | CH 9537 | 0.100               | -1.66             | 21                        | 20.5                      | 0.112                   | 41           |
|             |                    | Bottom side      | CH 9537 | 0.425               | -2.07             | 21                        | 20.5                      | 0.477                   | 42           |
|             |                    | Front side       | CH4182  | 0.458               | -0.01             | 22                        | 21.81                     | 0.514                   | 47           |
|             | RMC                | Back side        | CH4182  | 0.638               | -0.56             | 22                        | 21.81                     | 0.716                   | 48           |
| WCDMA<br>V  | ( body-worn and    | Left side        | CH4182  | 0.311               | -0.40             | 22                        | 21.81                     | 0.349                   | 49           |
| V           | hotspot )          | Right side       | CH4182  | 0.424               | 0.41              | 22                        | 21.81                     | 0.476                   | 50           |
|             |                    | Bottom side      | CH4182  | 0.103               | 0.17              | 22                        | 21.81                     | 0.116                   | 51           |

| Band  | Mode     | Test<br>Position | Channel | Result 1g<br>(W/Kg) | Power<br>Drift(%) | Max.Turn<br>-up<br>Power(d<br>Bm) | Meas.Ou<br>tput<br>Power(d<br>Bm) | Duty<br>cycle(%) | Scaled<br>SAR<br>(W/Kg) | Meas.<br>No. |
|-------|----------|------------------|---------|---------------------|-------------------|-----------------------------------|-----------------------------------|------------------|-------------------------|--------------|
|       | DATA     | Front side       | CH11    | 0.074               | -0.05             | 19                                | 18.7                              | 100              | 0.079                   | 56           |
| WIFI  | ( body-  | Back side        | CH11    | 0.108               | 0.20              | 19                                | 18.7                              | 100              | 0.116                   | 57           |
| VVIFI | worn and | Left side        | CH11    | 0.080               | -0.19             | 19                                | 18.7                              | 100              | 0.086                   | 58           |
|       | hotspot) | Top side         | CH11    | 0.069               | -0.07             | 19                                | 18.7                              | 100              | 0.074                   | 59           |

#### Note:

- 1. The test separation of all above table is 10mm.
- 2. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.119** W/Kg for Head and **0.072** W/Kg for Body/Hotspot)



Repeated SAR

| Band     | Mode                                | Test<br>Position | Channel | Result<br>1g<br>(W/Kg) | Power<br>Drift(%) | Max.Turn-up<br>Power(dBm) | Meas.Output<br>Power(dBm) | Scaled<br>SAR<br>(W/Kg) | Meas.<br>No. |
|----------|-------------------------------------|------------------|---------|------------------------|-------------------|---------------------------|---------------------------|-------------------------|--------------|
| GSM850   | GPRS<br>Data-4 Slot<br>( hotspot )  | Front side       | CH 128  | 0.970                  | 2.42              | 27.5                      | 27.23                     | 1.032                   | 6            |
| GSM850   | GPRS<br>Data-4 Slot<br>( hotspot )  | Back side        | CH 128  | 1.253                  | -1.28             | 27.5                      | 27.23                     | 1.333                   | 10           |
| GSM850   | GPRS<br>Data-4 Slot<br>( hotspot )  | Right side       | CH 128  | 0.872                  | 2.58              | 27.5                      | 27.23                     | 0.928                   | 15           |
| GSM1900  | GPRS<br>Data-4 Slot<br>( hotspot )  | Back side        | CH 512  | 1.308                  | 0.05              | 25.5                      | 25.26                     | 1.392                   | 25           |
| WCDMA II | RMC<br>( body-worn<br>and hotspot ) | Back side        | CH 9537 | 1.231                  | -0.07             | 21                        | 20.50                     | 1.301                   | 37           |

### 12.3 repeated SAR measurement

| Band     | Mode                                | Test<br>Position | Channel | Original<br>Measured<br>SAR<br>1g(mW/g) | 1 st<br>Repeated<br>SAR 1g | Ratio | Original<br>Measured<br>SAR<br>1g(mW/g) | 2nd<br>Repeated<br>SAR 1g | Ratio |
|----------|-------------------------------------|------------------|---------|---|----------------------------|-------|---|---------------------------|-------|
| GSM850   | GPRS<br>Data-4 Slot<br>( hotspot )  | Front side       | CH 128  | 0.975                                   | 0.970                      | 0.99  | -                                       | -                         | -     |
| GSM850   | GPRS<br>Data-4 Slot<br>( hotspot )  | Back side        | CH 128  | 1.280                                   | 1.253                      | 0.98  | -                                       | -                         | -     |
| GSM850   | GPRS<br>Data-4 Slot<br>( hotspot )  | Right side       | CH 128  | 0.876                                   | 0.872                      | 1.00  | -                                       | -                         | -     |
| GSM1900  | GPRS<br>Data-4 Slot<br>( hotspot )  | Back side        | CH 512  | 1.245                                   | 1.308                      | 1.05  | -                                       | -                         | -     |
| WCDMA II | RMC<br>( body-worn<br>and hotspot ) | Back side        | CH 9537 | 1.226                                   | 1.231                      | 1.00  | -                                       | -                         | -     |

#### 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   |  |
|----------|----------------------|--|
|          | 1. GSM + WIFI        |  |
|          | 2. GSM + Bluetooth   |  |
| Head     | 3. WCDMA + WIFI      |  |
|          | 4. WCDMA + Bluetooth |  |
|          | 1. GSM + WIFI        |  |
| 5.       | 2. GSM + Bluetooth   |  |
| Body     | 3. WCDMA + WIFI      |  |
|          | 4. WCDMA + 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 ≤50mm, Bluetooth standalone SAR is excluded according to [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm) ·[√f (GHz) /x] ≤3.0 for 1-g SAR and ≤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] |  |
|               | Head | 5.453                 | 3.51 | 5           | 2.480          | 0.147          |  |
| ВТ            | Body | J.433                 | 3.31 | 10          | 2.480          | 0.074          |  |



| Simultaneous Mode        | Position  | Mode      | Max. 1-g SAR<br>(W/kg) | 1-g Sum SAR<br>(W/kg) |  |
|--------------------------|-----------|-----------|------------------------|-----------------------|--|
|                          | Head      | GSM Voice | 0.637                  | 0.830                 |  |
| GSM + WIFI               | пеац      | WIFI      | 0.193                  | 0.830                 |  |
| GSW + WIFI               | Pody worn | GSM DATA  | 1.392                  | 1.508                 |  |
|                          | Body-worn | WIFI      | 0.116                  | 1.508                 |  |
|                          | Head      | GSM Voice | 0.637                  | 0.811                 |  |
| GSM + Bluetooth          | пеаи      | Bluetooth | 0.174                  | 0.811                 |  |
| GSWI + Bluetooth         | Darkons   | GSM Voice | 1.392                  | 1 466                 |  |
|                          | Body-worn | Bluetooth | 0.074                  | 1.466                 |  |
|                          | Head      | WCDMA RMC | 0.521                  | 0.714                 |  |
| WCDMA RMC+ WIFI          | пеаи      | WIFI      | 0.193                  | 0.714                 |  |
| WCDIVIA RIVIC+ WIFI      | Body-worn | WCDMA RMC | 1.376                  | 1.492                 |  |
|                          | Hotspot   | WIFI      | 0.116                  | 1.492                 |  |
|                          | Lload     | WCDMA RMC | 0.521                  | 0.605                 |  |
| WCDMA RMC+ Bluetooth     | Head      | Bluetooth | 0.174                  | 0.695                 |  |
| WCDIVIA RIVIC+ BIUETOOTH | Body-worn | WCDMA RMC | 1.376                  | 1.450                 |  |
|                          | Hotspot   | Bluetooth | 0.074                  | 1.450                 |  |

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<br>DIP0G835-332 | 2014.09.01       | 2017.08.31       |
| 1900MHz Dipole              | SATIMO       | SID1900                                   | SN 30/14<br>DIP1G900-333 | 2014.09.01       | 2017.08.31       |
| 2450 MHz Dipole             | SATIMO       | SID2450                                   | SN 30/14<br>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<br>ZNTA52       | 2014.09.01       | 2017.08.31       |
| Waveguide                   | SATIMO       | SWG5500                                   | SN 13/14<br>WGA32        | 2014.09.01       | 2017.08.31       |
| Phantom1                    | SATIMO       | SAM                                       | SN 32/14<br>SAM115       | N/A              | N/A              |
| Phantom2                    | SATIMO       | SAM                                       | SN 32/14<br>SAM116       | N/A              | N/A              |
| SAR TEST BENCH              | SATIMO       | MOBILE<br>PHONE<br>POSITIONNING<br>SYSTEM | SN 32/14<br>MSH97        | N/A              | N/A              |
| SAR TEST BENCH              | SATIMO       | LAPTOP<br>POSITIONNING<br>SYSTEM          | SN 32/14 LSH29           | N/A              | N/A              |
| Dielectric Probe Kit        | SATIMO       | SCLMP                                     | SN 32/14<br>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                   | 2014.12.12       | 2015.12.11       |
| Network Analyzer            | Agilent      | 5071C                                     | EMY46103472              | 2014.12.12       | 2015.12.11       |
| 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                      | 2014.12.12       | 2015.12.11       |
| Dual Directional<br>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

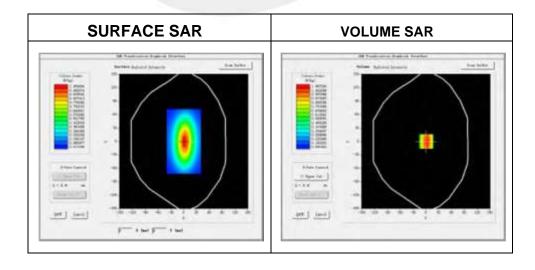
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-07

Measurement duration: 13 minutes 27 seconds

### **Experimental conditions**

| Phantom                           | Validation plane |
|-----------------------------------|------------------|
| Device Position                   | -                |
| Band                              | 835MHz           |
| Channels                          | <u>-</u>         |
| Signal                            | CW               |
| Frequency (MHz)                   | 835MHz           |
| Relative permittivity (real part) | 41.19            |
| Relative permittivity             | 18.72            |
| Conductivity (S/m)                | 0.89             |
| Power drift (%)                   | 0.45             |
| Ambient Temperature:              | 22.7°C           |
| Liquid Temperature:               | 22.3°C           |
| ConvF:                            | 4.83             |
| Crest factor:                     | 1:1              |



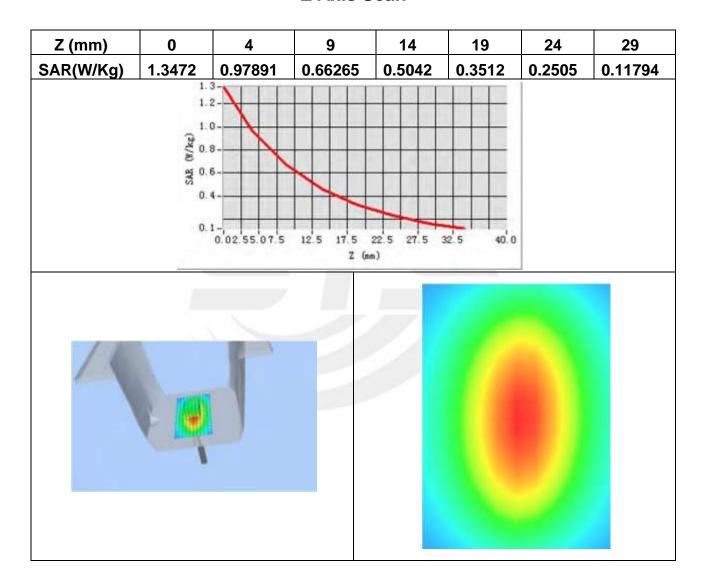


Maximum location: X=1.00, Y=0.00

SAR Peak: 1.46 W/kg

| SAR 10g (W/Kg) | 0.612584 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.928356 |

# **Z Axis Scan**





# System Performance Check Data (835MHz Body)

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

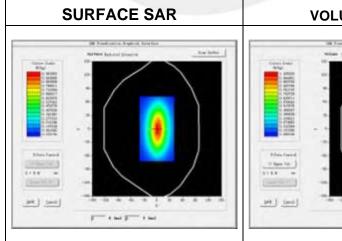
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

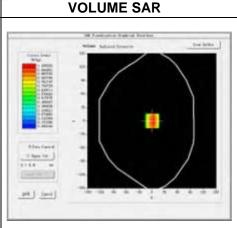
Date of measurement: 2015-12-07

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) | 54.26            |
| Relative permittivity             | 21.408187        |
| Conductivity (S/m)                | 0.99             |
| Power drift (%)                   | 0.090000         |
| Ambient Temperature:              | 22.7°C           |
| Liquid Temperature:               | 22.3°C           |
| ConvF:                            | 5.02             |
| Crest factor:                     | 1:1              |





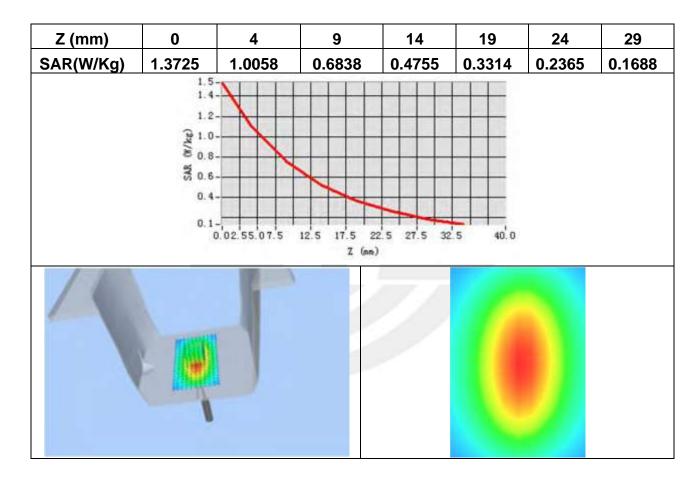


Maximum location: X=1.00, Y=0.00

SAR Peak: 1.48 W/kg

| SAR 10g (W/Kg) | 0.695261 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.987695 |

#### **Z Axis Scan**





# System Performance Check Data (1900MHz Head)

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

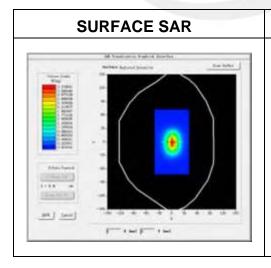
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

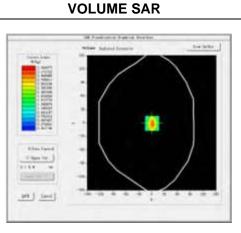
Date of measurement: 2015-12-07

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) | 39.44            |
| Relative permittivity             | 13.26            |
| Conductivity (S/m)                | 1.42             |
| 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              |





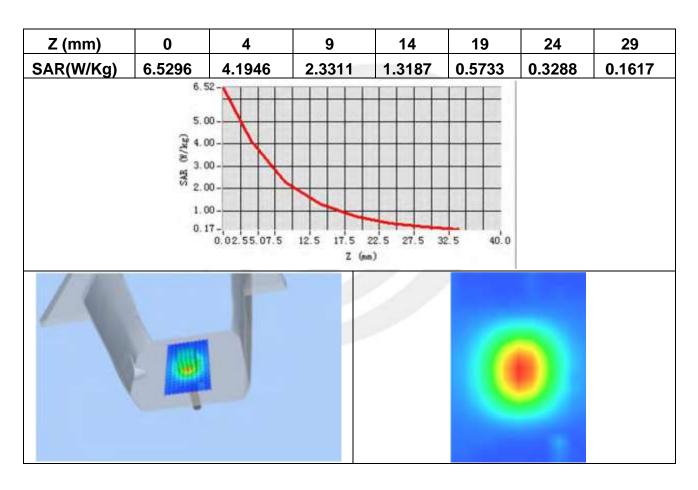


Maximum location: X=1.00, Y=0.00

SAR Peak: 5.39 W/kg

| SAR 10g (W/Kg) | 1.975658 |
|----------------|----------|
| SAR 1g (W/Kg)  | 3.892354 |

# **Z Axis Scan**





# System Performance Check Data (1900MHz Body)

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

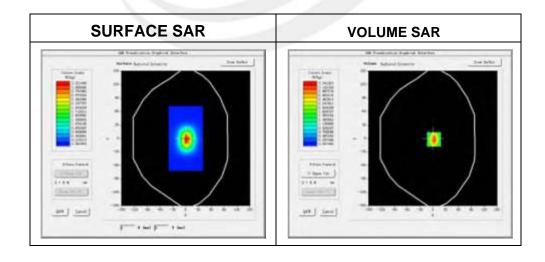
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-07

Measurement duration: 14 minutes 46 seconds

### **Experimental conditions.**

| Device Position                   | -              |
|-----------------------------------|----------------|
| Band                              | 1900MHz        |
| Channels                          | -              |
| Signal                            | CW             |
| Frequency (MHz)                   | 1900           |
| Relative permittivity (real part) | 52.78          |
| Relative permittivity             | 12.87531       |
| Conductivity (S/m)                | 1.55           |
| 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            |







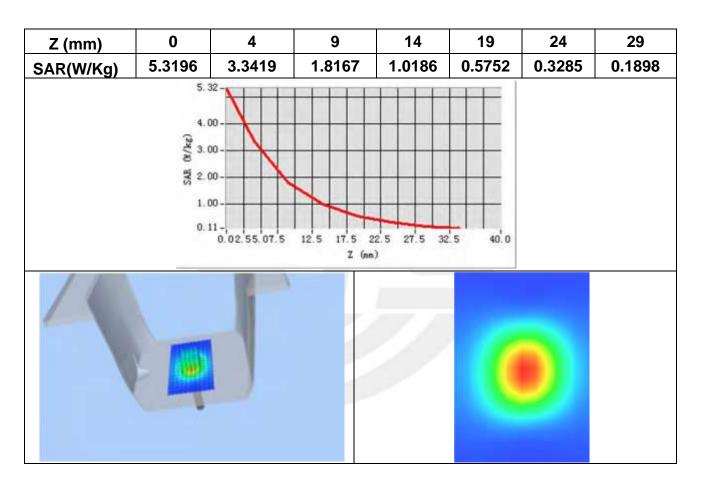


Maximum location: X=2.00, Y=2.00

SAR Peak: 5.27 W/kg

| SAR 10g (W/Kg) | 2.135625 |
|----------------|----------|
| SAR 1g (W/Kg)  | 4.123621 |

# **Z Axis Scan**





# System Performance Check Data (2450MHz Head)

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

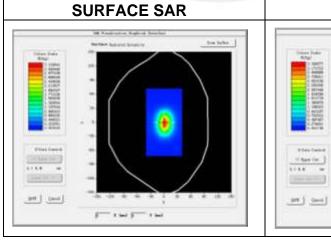
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

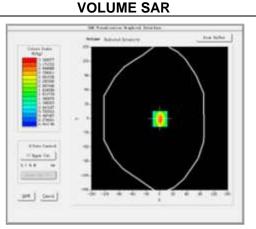
Date of measurement: 2015-12-07

Measurement duration: 13 minutes 51 seconds

### **Experimental conditions.**

| Device Position                   | Validation plane |
|-----------------------------------|------------------|
| Band                              | 2450 MHz         |
| Channels                          | -                |
| 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              |



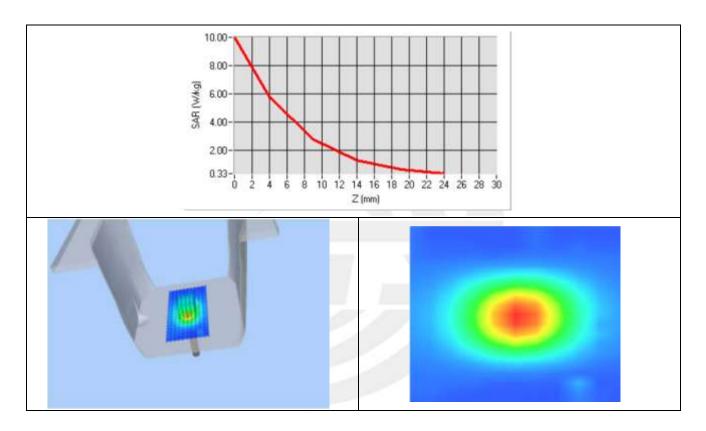




Maximum location: X=7.00, Y=6.00

| 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

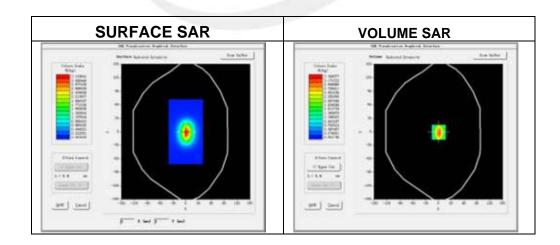
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-12-07

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              |

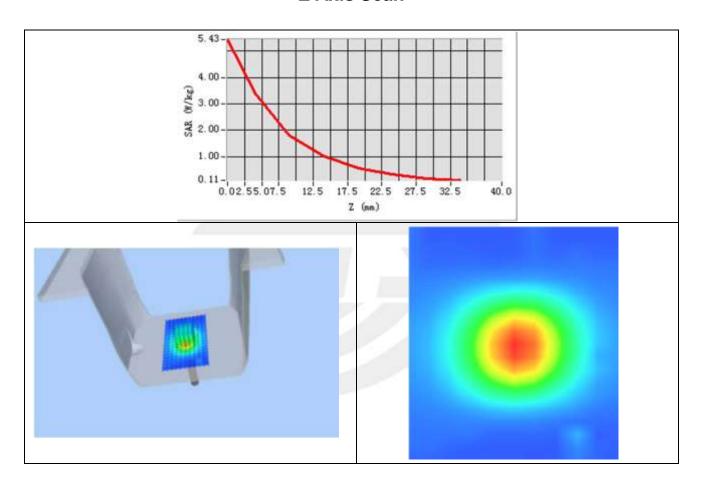




Maximum location: X=3.00, Y=1.00

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

### **Z Axis Scan**





# **Appendix B. SAR Test Plots**

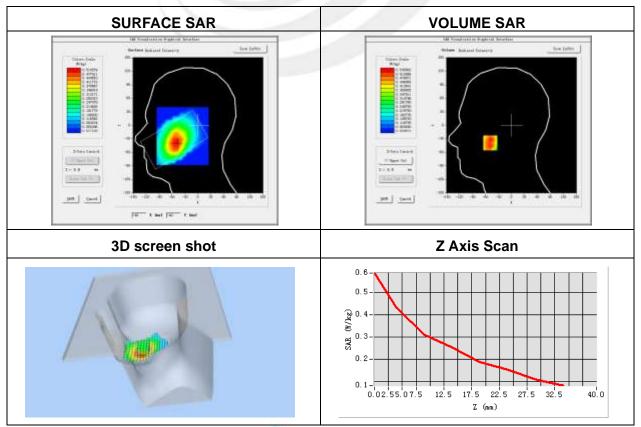
Plot 1: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>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 (%)                     | 0.66   |
|                                   |  |

Maximum location: X=-49.00, Y=-39.00

SAR Peak: 0.79 W/kg

| SAR 10g (W/Kg) | 0.359622 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.524485 |



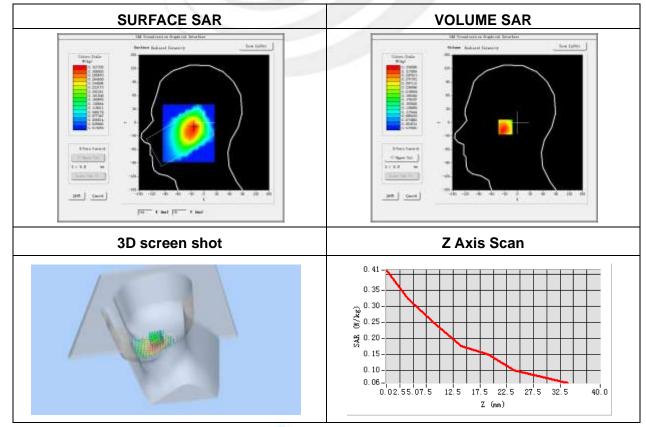


Plot 2: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>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 (%)                     | 0.36   |

Maximum location: X=-23.00, Y=-10.00 SAR Peak: 0.48 W/kg

SAR 10g (W/Kg) 0.229477 SAR 1g (W/Kg) 0.328506



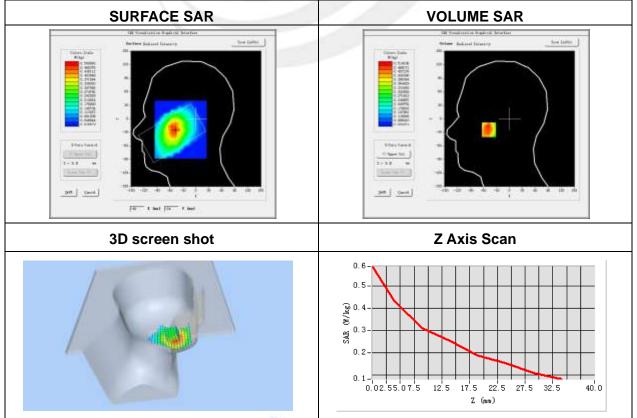


Plot 3: DUT: smart phone; EUT Model: V55

| 2015-12-07   |
|--|
| 22.70  |
| 22.30  |
| SN 17/14 EP221   |
| 4.83   |
| dx=8mm dy=8mm, h= 5.00 mm  |
| 5x5x7,dx=8mm dy=8mm dz=5mm,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Left head  |
| Cheek  |
| GSM850   |
| Middle   |
| TDMA (Crest factor: 8.32)  |
| 836.6  |
| 42.27  |
| 0.91   |
| -0.85  |
|  |

Maximum location: X=-48.00, Y=-24.00 SAR Peak: 0.80 W/kg

| SAR 10g (W/Kg) | 0.337340 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.509394 |



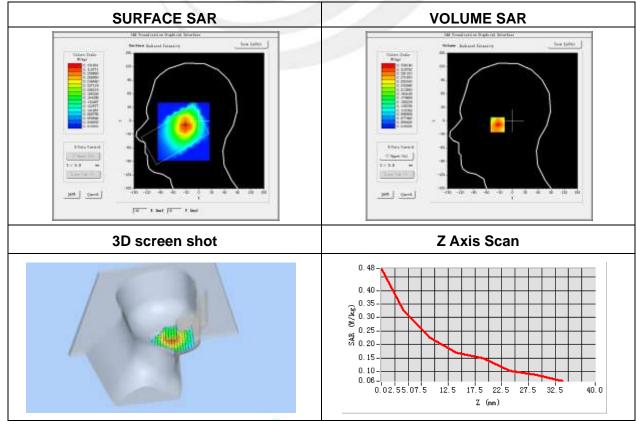


Plot 4: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| Test Data                         | 2010-12-07   |
| 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,<br>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 (%)                     | 1.03   |

Maximum location: X=-32.00, Y=-8.00 SAR Peak: 0.49 W/kg

| SAR 10g (W/Kg) | 0.218603 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.321680 |



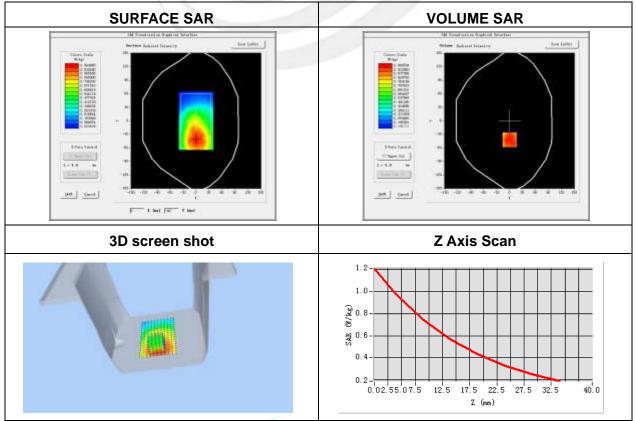


Plot 5: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | GPRS 850   |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 824.2  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 0.48   |

Maximum location: X=0.00, Y=-42.00 SAR Peak: 1.36 W/kg

| SAR 10g (W/Kg) | 0.695432 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.975231 |



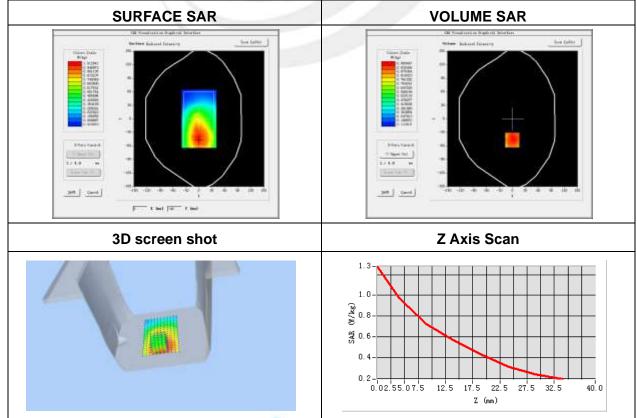


Plot 6: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | GPRS 850-Repeated  |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 824.2  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 2.42   |

Maximum location: X=-1.00, Y=-47.00 SAR Peak: 1.32 W/kg

| SAR 10g (W/Kg) | 0.695732 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.969639 |



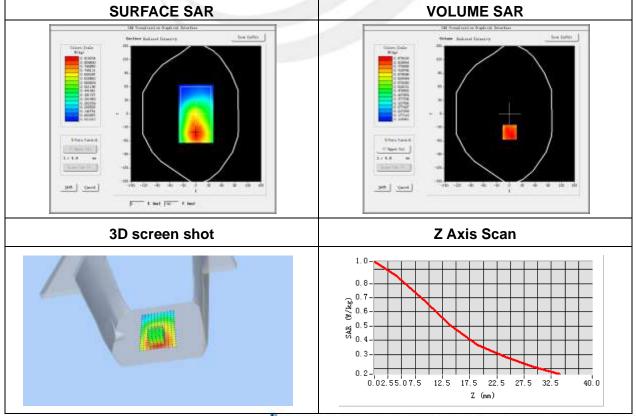


Plot 7: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | GPRS 850   |
| Channels                          | Middle   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 0.09   |

Maximum location: X=0.00, Y=-41.00 SAR Peak: 1.20 W/kg

| SAR 10g (W/Kg) | 0.620759 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.866884 |



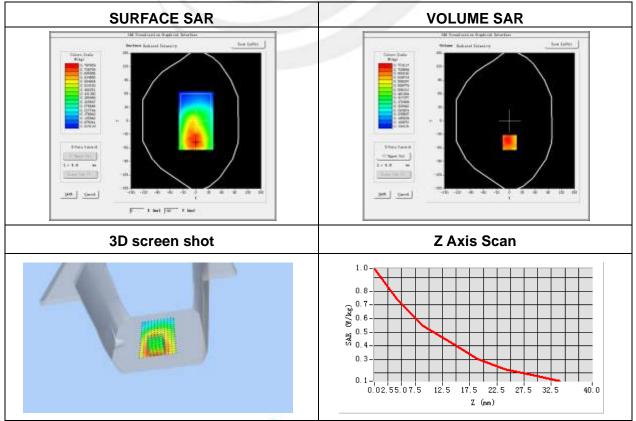


Plot 8: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | GPRS 850   |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 848.8  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 0.03   |

Maximum location: X=0.00, Y=-48.00 SAR Peak: 1.03 W/kg

| SAR 10g (W/Kg) | 0.526579 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.749569 |



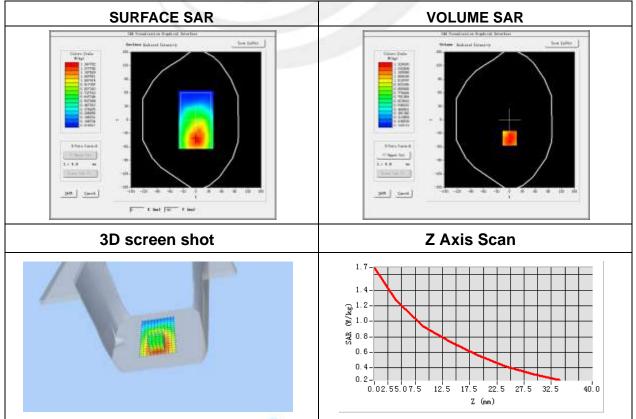


Plot 9: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 850   |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 824.2  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -3.43  |

Maximum location: X=0.00, Y=-41.00 SAR Peak: 1.78 W/kg

| SAR 10g (W/Kg) | 0.911064 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.279796 |



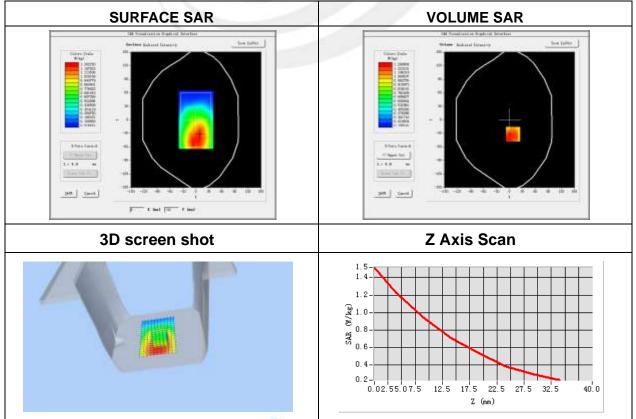


Plot 10: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back-Repeated   |
| Band                              | GPRS 850   |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 824.2  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -1.28  |

Maximum location: X=8.00, Y=-32.00 SAR Peak: 1.74 W/kg

| SAR 10g (W/Kg) | 0.899854 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.252525 |



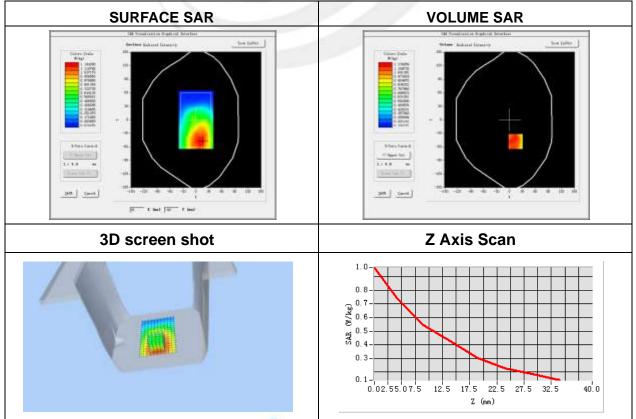


Plot 11: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 850   |
| Channels                          | Middle   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -1.38  |

Maximum location: X=14.00, Y=-48.00 SAR Peak: 1.23 W/kg

| SAR 10g (W/Kg) | 0.818306 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.130724 |



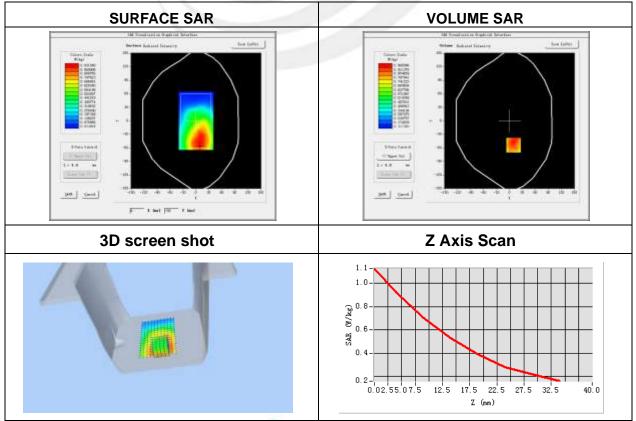


Plot 12: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 850   |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.66 (Crest factor:2.66)                                |
| Frequency (MHz)                   | 848.8  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -2.92  |

Maximum location: X=9.00, Y=-54.00 SAR Peak: 1.28 W/kg

| SAR 10g (W/Kg) | 0.650367 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.924442 |



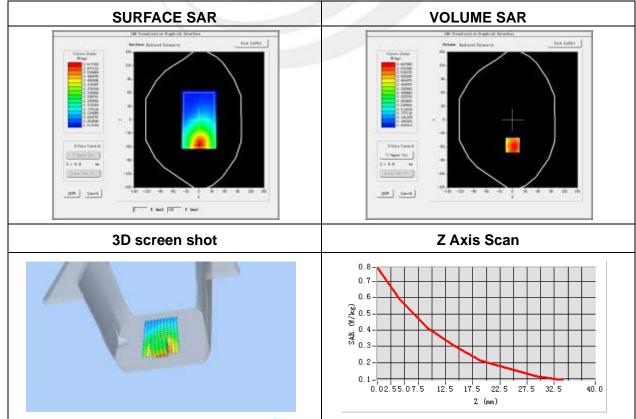


Plot 13: DUT: smart phone; EUT Model: V55

| · · ·                             | 1  |
|-----------------------------------|--|
| Test Data                         | 2015-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body left side   |
| Band                              | GPRS 850   |
| Channels                          | Middle   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -1.26  |

Maximum location: X=0.00, Y=-56.00 SAR Peak: 0.85 W/kg

| SAR 10g (W/Kg) | 0.400384 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.593041 |



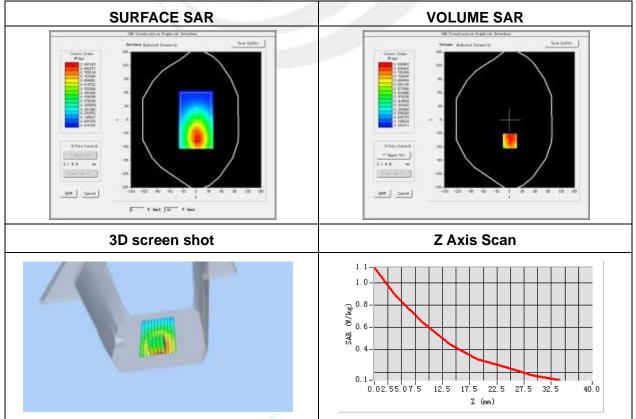


Plot 14: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | GPRS 850   |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 824.2  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 4.77   |

Maximum location: X=1.00, Y=-47.00 SAR Peak: 1.26 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.592762 |
| SAR 1g (W/Kg)  | 0.875689 |



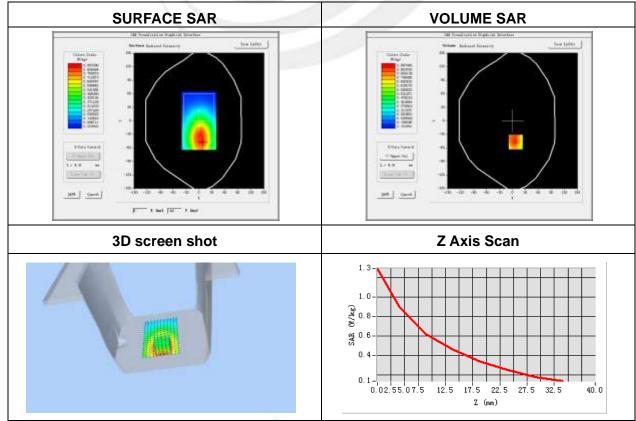


Plot 15: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | GPRS 850-Repeated  |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0                                   |
| Frequency (MHz)                   | 824.2  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 2.58   |

Maximum location: X=7.00, Y=-47.00 SAR Peak: 1.28 W/kg

| SAR 10g (W/Kg) | 0.579714 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.872493 |



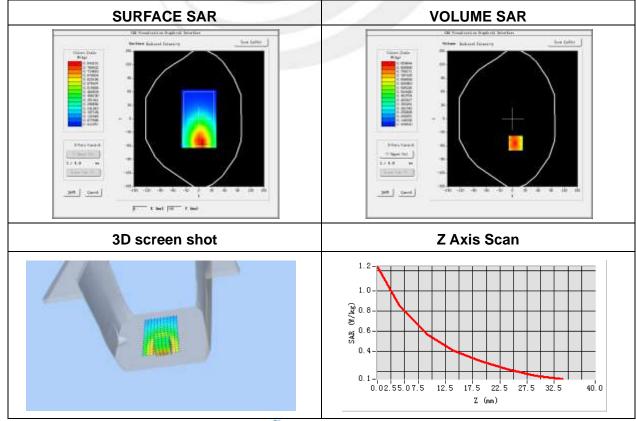


Plot 16: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | GPRS 850   |
| Channels                          | Middle   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -2.95  |

Maximum location: X=7.00, Y=-54.00 SAR Peak: 1.23 W/kg

| SAR 10g (W/Kg) | 0.545351 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.816657 |



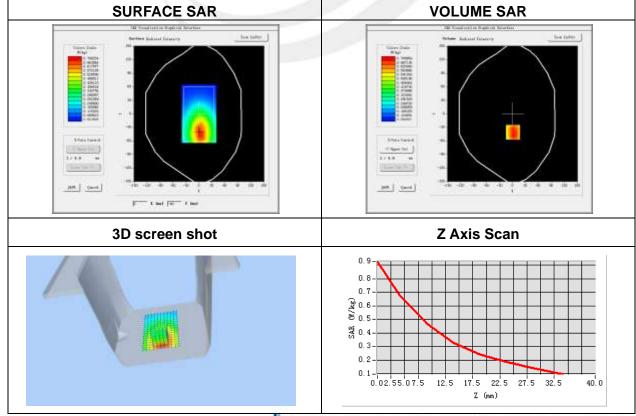


Plot 17: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | GPRS 850   |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 848.8  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -4.87  |

Maximum location: X=1.00, Y=-41.00 SAR Peak: 1.05 W/kg

| SAR 10g (W/Kg) | 0.449011 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.687837 |



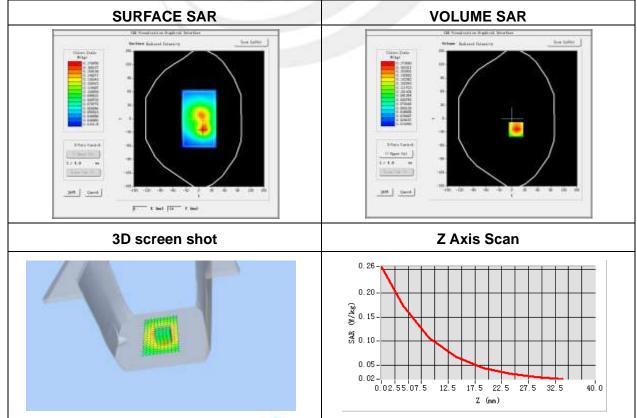


Plot 18: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body bottom side   |
| Band                              | GPRS 850   |
| Channels                          | Middle   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 0.26   |

Maximum location: X=9.00, Y=-24.00 SAR Peak: 0.27 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.098420 |
| SAR 1g (W/Kg)  | 0.166284 |



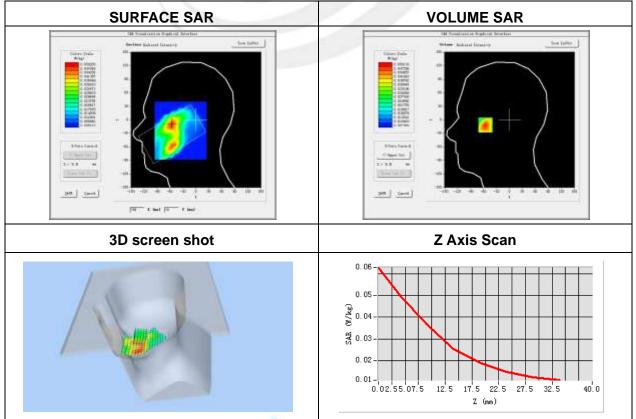


Plot 19: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right head   |
| Device Position                   | Cheek  |
| Band                              | GSM1900  |
| Channels                          | High   |
| Signal                            | TDMA (Crest factor: 8.32)  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 39.57  |
| Conductivity (S/m)                | 1.43   |
| Variation (%)                     | -0.59  |

Maximum location: X=-56.00, Y=-9.00 SAR Peak: 0.06 W/kg

| SAR 10g (W/Kg) | 0.032197 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.047423 |



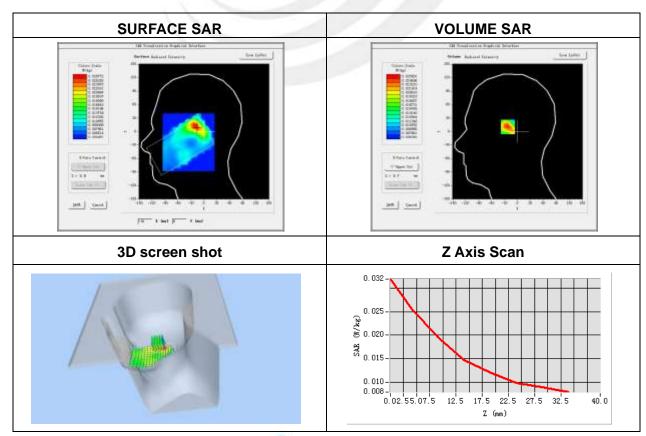


Plot 20: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right head   |
| Device Position                   | Tilt   |
| Band                              | GSM1900  |
| Channels                          | High   |
| Signal                            | TDMA (Crest factor: 8.32)  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 39.57  |
| Conductivity (S/m)                | 1.43   |
| Variation (%)                     | 1.23   |

Maximum location: X=-20.00, Y=12.00 SAR Peak: 0.03 W/kg

SAR 10g (W/Kg) 0.016923 SAR 1g (W/Kg) 0.024680



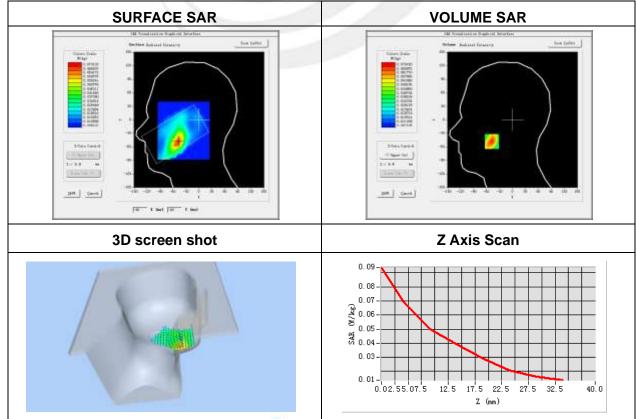


Plot 21: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| Test Data                         | 2013-12-01   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Left head  |
| Device Position                   | Cheek  |
| Band                              | GSM1900  |
| Channels                          | High   |
| Signal                            | TDMA (Crest factor: 8.32)  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 39.57  |
| Conductivity (S/m)                | 1.43   |
| Variation (%)                     | 0.20   |

Maximum location: X=-48.00, Y=-48.00 SAR Peak: 0.09 W/kg

| SAR 10g (W/Kg) | 0.044096 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.067679 |



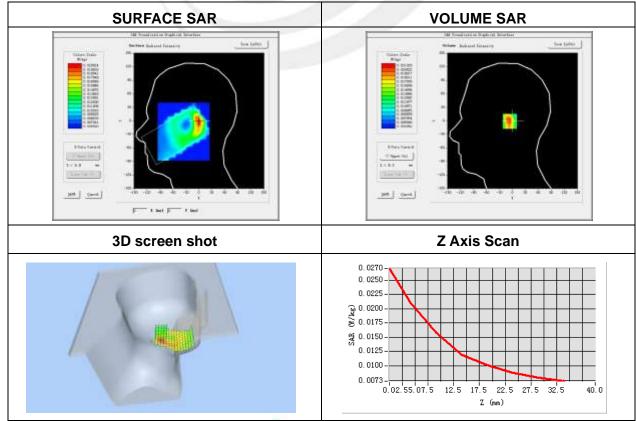


Plot 22: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Left head  |
| Device Position                   | Tilt   |
| Band                              | GSM1900  |
| Channels                          | High   |
| Signal                            | TDMA (Crest factor: 8.32)  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 39.57  |
| Conductivity (S/m)                | 1.43   |
| Variation (%)                     | 1.22   |

Maximum location: X=0.00, Y=-1.00 SAR Peak: 0.03 W/kg

| SAR 10g (W/Kg) | 0.014083 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.020547 |



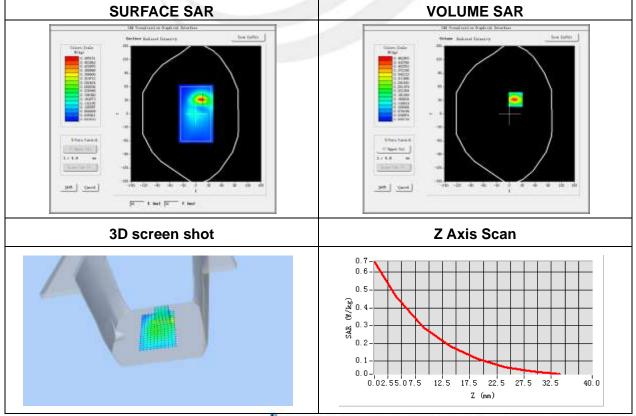


Plot 23: DUT: smart phone; EUT Model: V55

| <u> </u>                          |  |
|-----------------------------------|--|
| Test Data                         | 2015-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | GPRS 1900  |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | 0.81   |

Maximum location: X=14.00, Y=32.00 SAR Peak: 0.67 W/kg

| SAR 10g (W/Kg) | 0.226672 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.429487 |



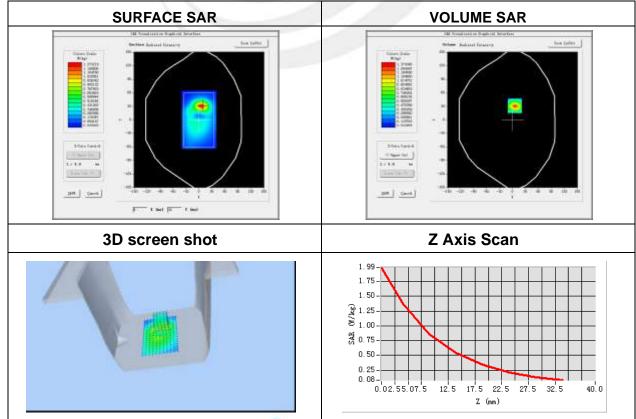


Plot 24: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 165t Data                         | 2013-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 1900  |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1850.2   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | 2.33   |

Maximum location: X=5.00, Y=31.00 SAR Peak: 2.00 W/kg

| SAR 10g (W/Kg) | 0.645679 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.245483 |



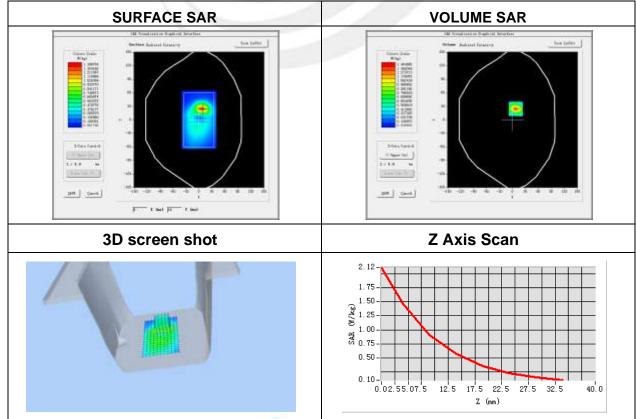


Plot 25: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 1900-Repeated   |
| Channels                          | Low  |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1850.2   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | 0.05   |

Maximum location: X=7.00, Y=24.00 SAR Peak: 2.11 W/kg

| SAR 10g (W/Kg) | 0.677305 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.307930 |



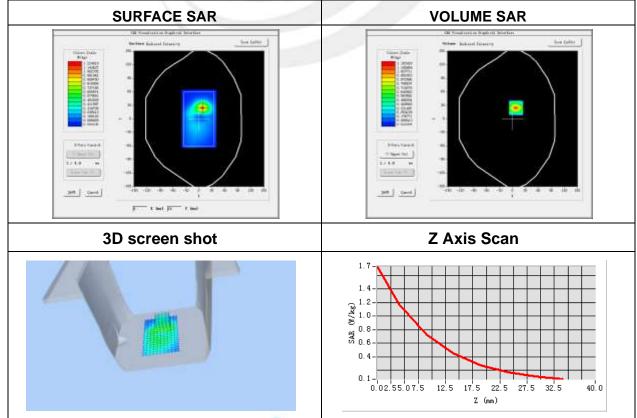


Plot 26: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 1900  |
| Channels                          | Middle   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1880.0   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | -0.09  |

Maximum location: X=8.00, Y=24.00 SAR Peak: 1.72 W/kg

| SAR 10g (W/Kg) | 0.542492 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.063842 |



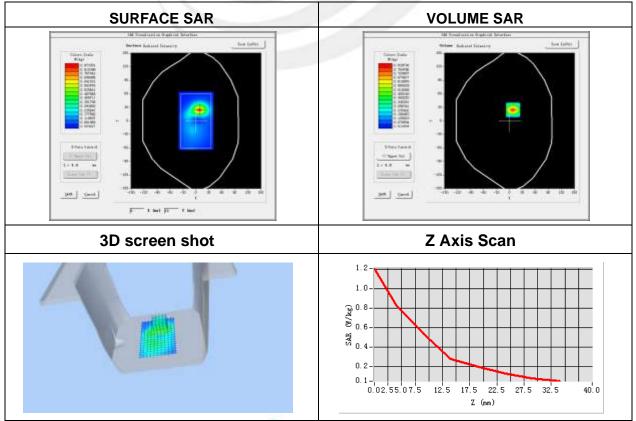


Plot 27: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | GPRS 1900  |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | 0.77   |

Maximum location: X=8.00, Y=24.00 SAR Peak: 1.21 W/kg

| SAR 10g (W/Kg) | 0.394783 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.763149 |



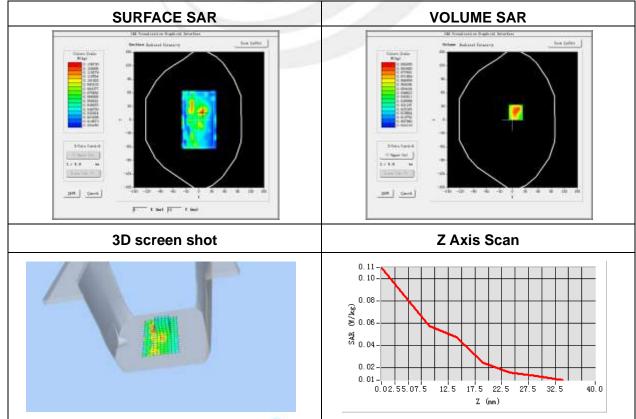


Plot 28: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body left side   |
| Band                              | GPRS 1900  |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | -4.43  |

Maximum location: X=7.00, Y=17.00 SAR Peak: 0.17 W/kg

| SAR 10g (W/Kg) | 0.049553 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.089205 |



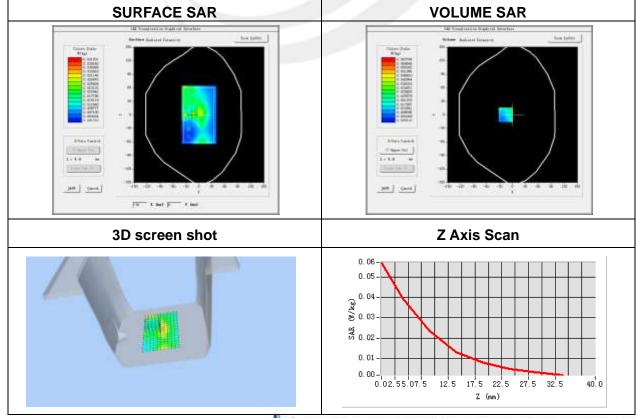


Plot 29: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | GPRS 1900  |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | -4.90  |

Maximum location: X=-16.00, Y=0.00 SAR Peak: 0.07 W/kg

| SAR 10g (W/Kg) | 0.015170 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.027698 |



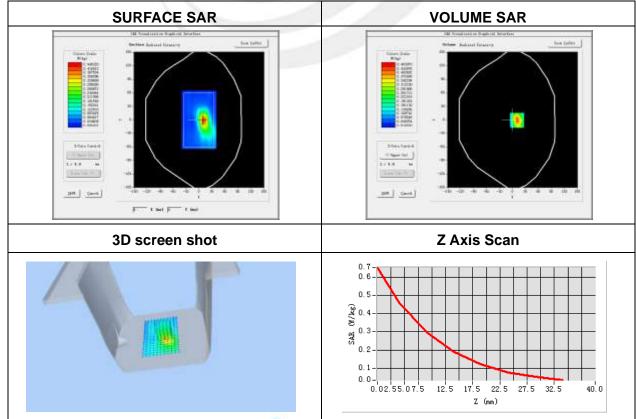


Plot 30: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| Test Data                         | 2013-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body bottom side   |
| Band                              | GPRS 1900  |
| Channels                          | High   |
| Signal                            | Duty Cycle:2.0 (Crest factor:2.0)                                  |
| Frequency (MHz)                   | 1909.8   |
| Relative permittivity (real part) | 51.68  |
| Conductivity (S/m)                | 1.51   |
| Variation (%)                     | 4.44   |

Maximum location: X=10.00, Y=-1.00 SAR Peak: 0.68 W/kg

| SAR 10g (W/Kg) | 0.227958 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.419736 |





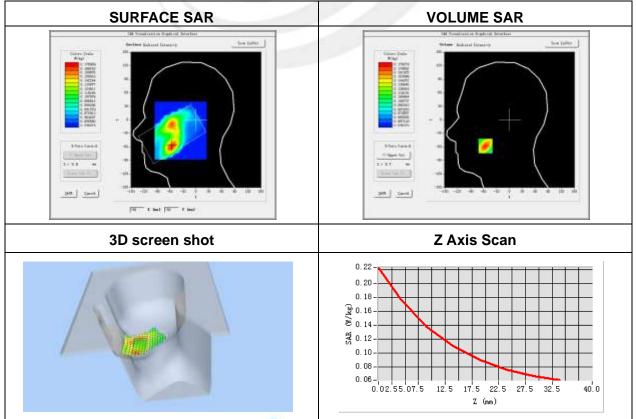
Plot 31: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right head   |
| Device Position                   | Cheek  |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 40.00  |
| Conductivity (S/m)                | 1.40   |
| Variation (%)                     | -0.30  |

Maximum location: X=-56.00, Y=-58.00

SAR Peak: 0.23 W/kg

| SAR 10g (W/Kg) | 0.123344 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.172237 |



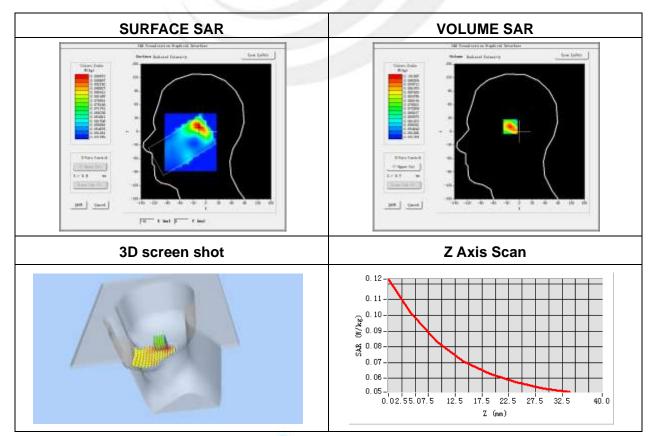


Plot 32: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right head   |
| Device Position                   | Tilt   |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 40.00  |
| Conductivity (S/m)                | 1.40   |
| Variation (%)                     | 0.03   |

Maximum location: X=-19.00, Y=13.00 SAR Peak: 0.12 W/kg

| SAR 10g (W/Kg) | 0.077317 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.098612 |





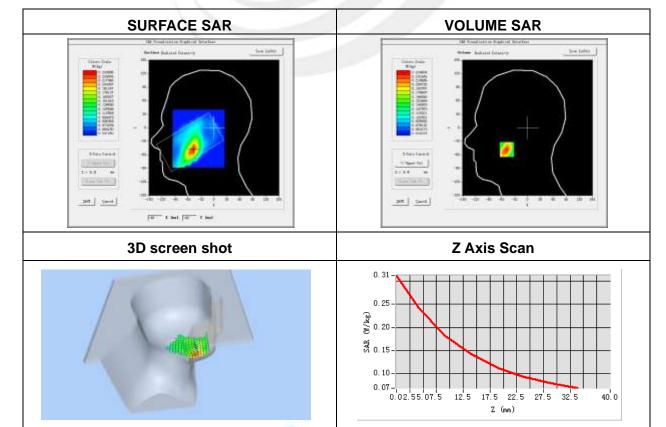
Plot 33: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Left head  |
| Device Position                   | Cheek  |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 40.00  |
| Conductivity (S/m)                | 1.40   |
| Variation (%)                     | -0.02  |

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

SAR Peak: 0.32 W/kg

| SAR 10g (W/Kg) | 0.161450 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.235326 |



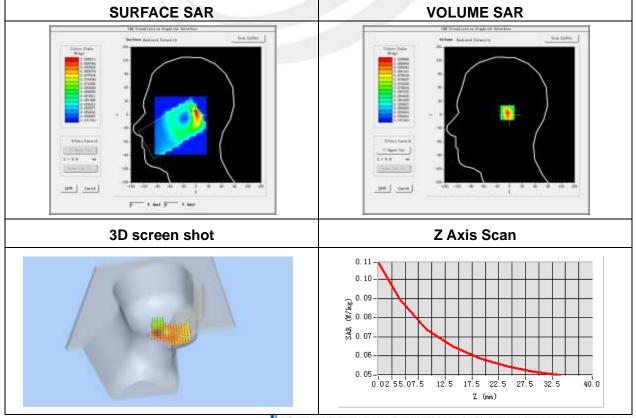


Plot 34: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Left head  |
| Device Position                   | Tilt   |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 40.00  |
| Conductivity (S/m)                | 1.40   |
| Variation (%)                     | -0.97  |

Maximum location: X=1.00, Y=5.00 SAR Peak: 0.11 W/kg

| SAR 10g (W/Kg) | 0.070076 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.087344 |



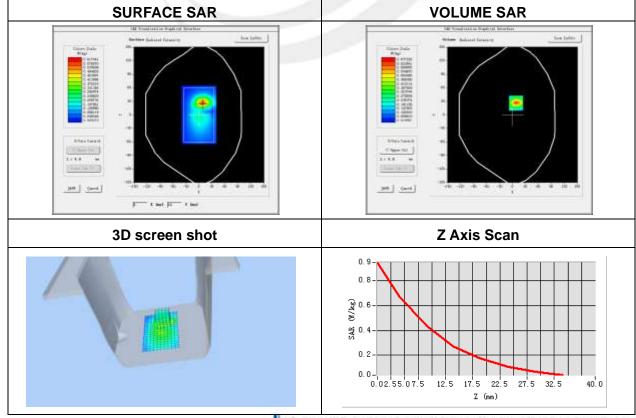


Plot 35: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | -1.33  |

Maximum location: X=8.00, Y=26.00 SAR Peak: 0.95 W/kg

| SAR 10g (W/Kg) | 0.324423 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.607744 |



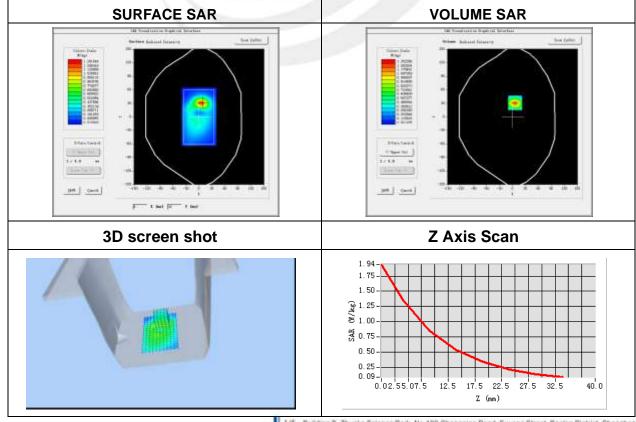


Plot 36: DUT: smart phone; EUT Model: V55

| Toot Data                         | 2015 12 07   |
|-----------------------------------|--|
| Test Data                         | 2015-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | WCDMA II   |
| Channels                          | Low  |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1852.4   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | 1.06   |

Maximum location: X=6.00, Y=31.00 SAR Peak: 1.95 W/kg

| SAR 10g (W/Kg) | 0.640498 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.226348 |



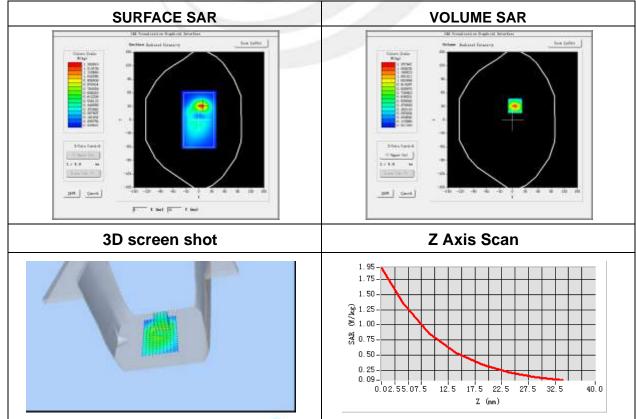


Plot 37: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| Ambient Temperature(°C)           | 22.70  |
| Ambient Temperature( C)           | 22.10  |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back-Repeated   |
| Band                              | WCDMA II   |
| Channels                          | Low  |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1852.4   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | -0.07  |

Maximum location: X=6.00, Y=31.00 SAR Peak: 1.96 W/kg

| SAR 10g (W/Kg) | 0.642741 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.231354 |



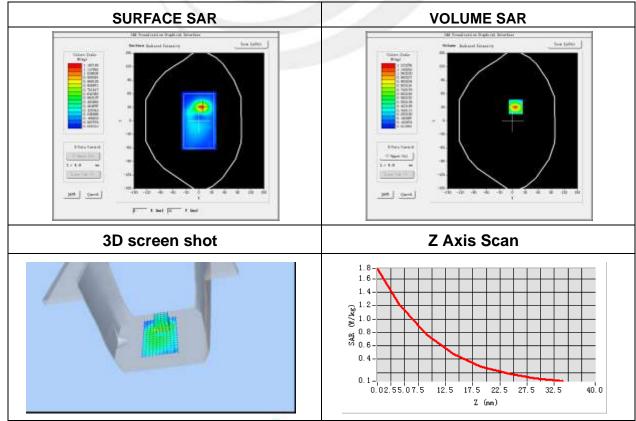


Plot 38: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | WCDMA II   |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1880.0   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | -0.66  |

Maximum location: X=7.00, Y=31.00 SAR Peak: 1.78 W/kg

| SAR 10g (W/ | g) 0.575942 |
|-------------|-------------|
| SAR 1g (W/k | 1.118800    |



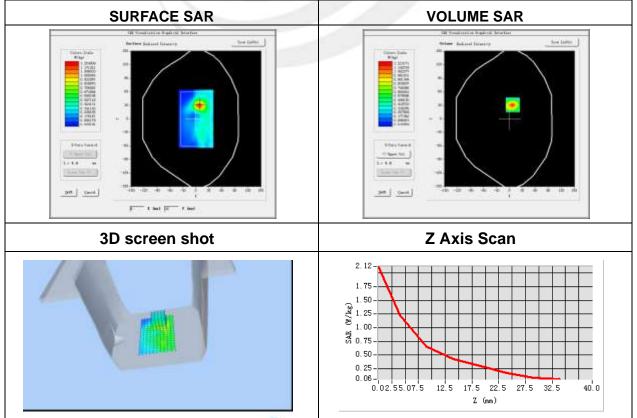


Plot 39: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| Test Data                         | 2015-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | -4.49  |

Maximum location: X=7.00, Y=31.00 SAR Peak: 2.06 W/kg

| SAR 10g (W/Kg) | 0.580990 |
|----------------|----------|
| SAR 1g (W/Kg)  | 1.167881 |



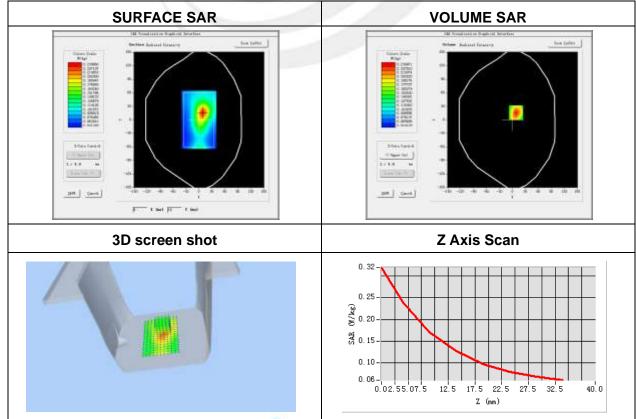


Plot 40: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body left side   |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | 0.01   |

Maximum location: X=8.00, Y=16.00 SAR Peak: 0.32 W/kg

| SAR 10g (W/Kg) | 0.155728 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.230159 |



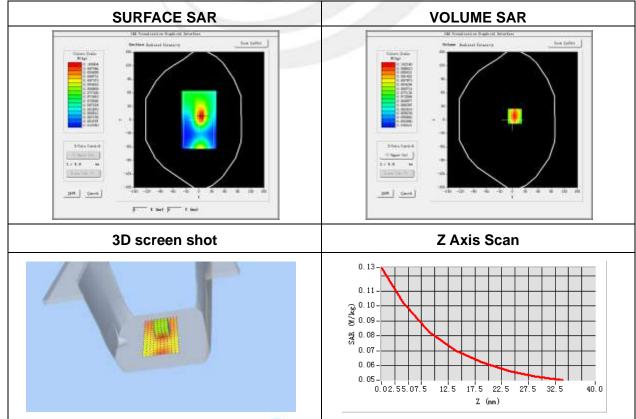


Plot 41: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | WCDMA II   |
| Channels                          | High   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 1907.6   |
| Relative permittivity (real part) | 53.30  |
| Conductivity (S/m)                | 1.52   |
| Variation (%)                     | -1.66  |

Maximum location: X=5.00, Y=8.00 SAR Peak: 0.13 W/kg

| SAR 10g (W/Kg) | 0.078246 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.099953 |



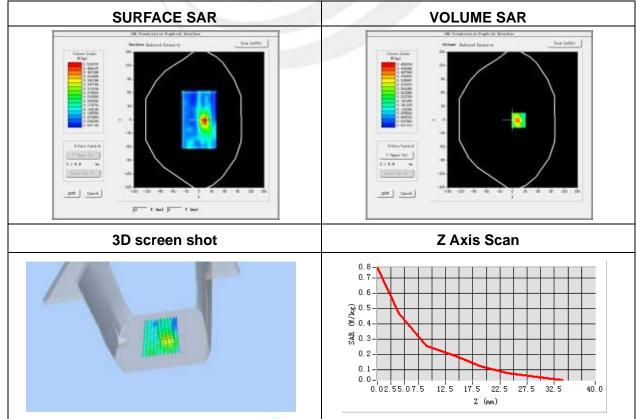


Plot 42: DUT: smart phone; EUT Model: V55

| 2015-12-07   |
|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane   |
| Body bottom side   |
| WCDMA II   |
| High   |
| WCDMA (Crest factor: 1.0)  |
| 1907.6   |
| 53.30  |
| 1.52   |
| -2.07  |
|  |

Maximum location: X=14.00, Y=-1.00 SAR Peak: 0.75 W/kg

| SAR 10g (W/Kg) | 0.225107 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.425315 |



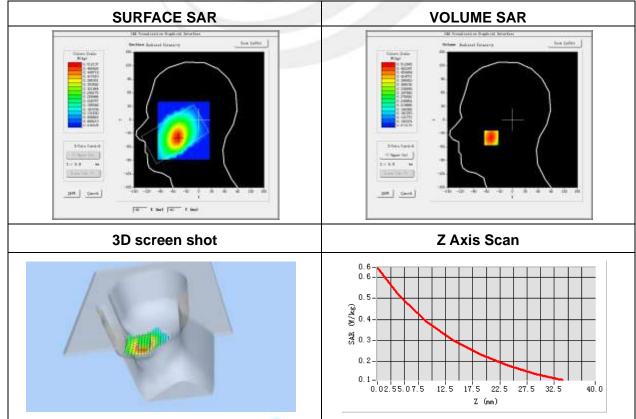


Plot 43: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right head   |
| Device Position                   | Cheek  |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 0.24   |

Maximum location: X=-49.00, Y=-40.00 SAR Peak: 0.65 W/kg

| SAR 10g (W/Kg) | 0.360721 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.499117 |





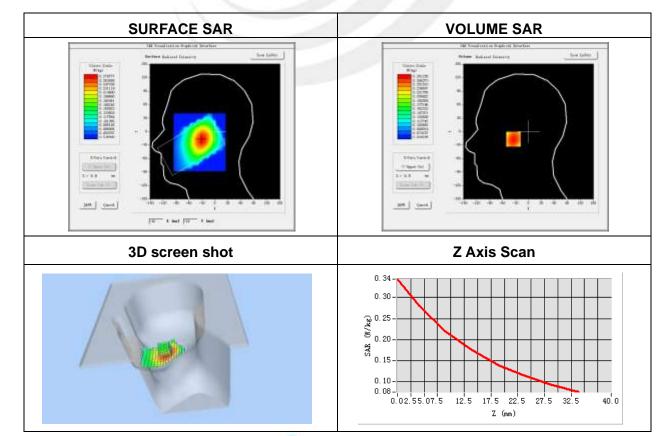
Plot 44: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right head   |
| Device Position                   | Tilt   |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | -0.02  |

Maximum location: X=-31.00, Y=-17.00

SAR Peak: 0.35 W/kg

| SAR 10g (W/Kg) | 0.206424 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.275031 |





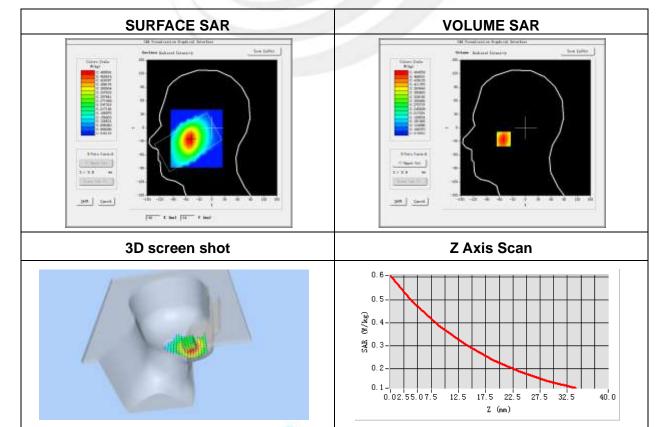
Plot 45: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |  |
|-----------------------------------|--|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |  |
| Phantom                           | Left head  |  |
| Device Position                   | Cheek  |  |
| Band                              | WCDMA V  |  |
| Channels                          | Middle   |  |
| Signal                            | WCDMA (Crest factor: 1.0)  |  |
| Frequency (MHz)                   | 836.6  |  |
| Relative permittivity (real part) | 42.27  |  |
| Conductivity (S/m)                | 0.91   |  |
| Variation (%)                     | -0.94  |  |

Maximum location: X=-51.00, Y=-25.00

SAR Peak: 0.61 W/kg

| SAR 10g (W/Kg) | 0.351502 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.480602 |







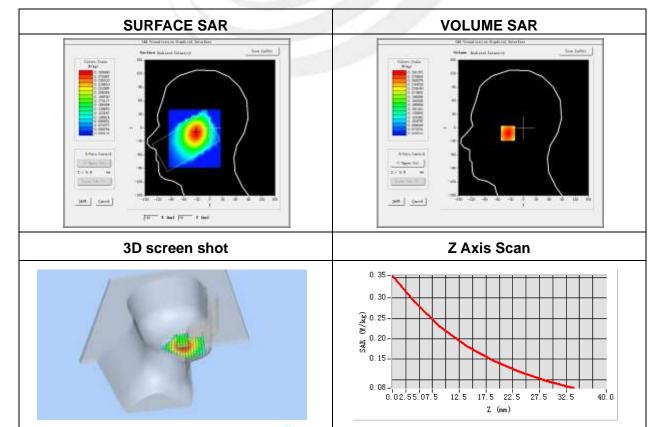
Plot 46: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Left head  |
| Device Position                   | Tilt   |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 42.27  |
| Conductivity (S/m)                | 0.91   |
| Variation (%)                     | 0.01   |

Maximum location: X=-33.00, Y=-12.00

SAR Peak: 0.36 W/kg

| SAR 10g (W/Kg) | 0.213578 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.284290 |



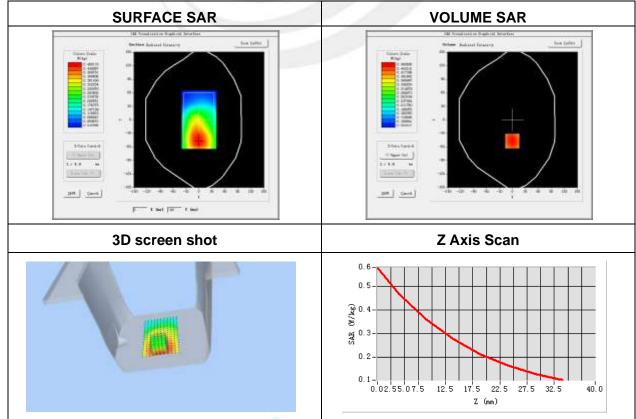


Plot 47: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Front   |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 55.5   |
| Conductivity (S/m)                | 0.96   |
| Variation (%)                     | -0.01  |

Maximum location: X=-1.00, Y=-47.00 SAR Peak: 0.58 W/kg

|                | <u> </u> |
|----------------|----------|
| SAR 10g (W/Kg) | 0.338782 |
| SAR 1g (W/Kg)  | 0.457720 |



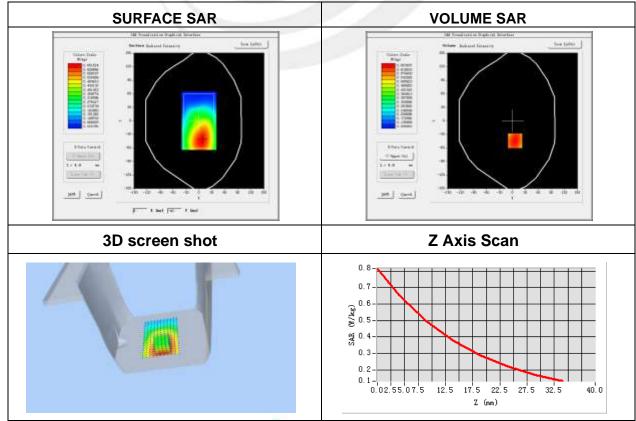


Plot 48: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Back  |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 55.5   |
| Conductivity (S/m)                | 0.96   |
| Variation (%)                     | -0.56  |

Maximum location: X=6.00, Y=-44.00 SAR Peak: 0.82 W/kg

| SAR 10g (W/Kg) | 0.467095 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.637566 |



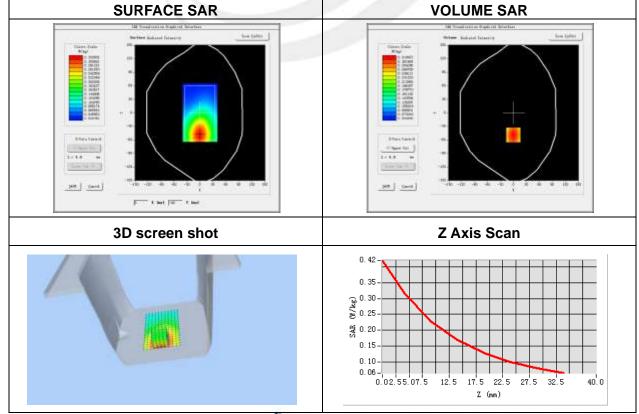


Plot 49: DUT: smart phone; EUT Model: V55

| 2015-12-07   |
|--|
| 22.70  |
| 22.30  |
| SN 17/14 EP221   |
| 5.02   |
| dx=8mm dy=8mm, h= 5.00 mm  |
| 5x5x7,dx=8mm dy=8mm dz=5mm,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane   |
| Body left side   |
| WCDMA V  |
| Middle   |
| WCDMA (Crest factor: 1.0)  |
| 836.6  |
| 55.5   |
| 0.96   |
| -0.40  |
|  |

Maximum location: X=-1.00, Y=-49.00 SAR Peak: 0.42 W/kg

| SAR 10g (W/Kg) | 0.219518 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.311459 |



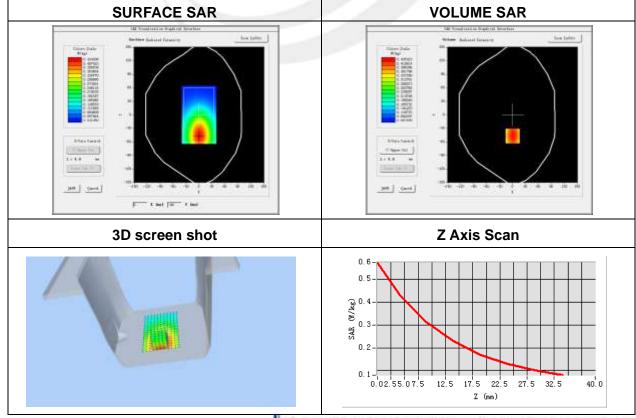


Plot 50: DUT: smart phone; EUT Model: V55

| Toot Data                         | 2015 12 07   |
|-----------------------------------|--|
| Test Data                         | 2015-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body right side  |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 55.5   |
| Conductivity (S/m)                | 0.96   |
| Variation (%)                     | 0.41   |

Maximum location: X=0.00, Y=-47.00 SAR Peak: 0.57 W/kg

| SAR 10g (W/Kg) | 0.296743 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.423807 |



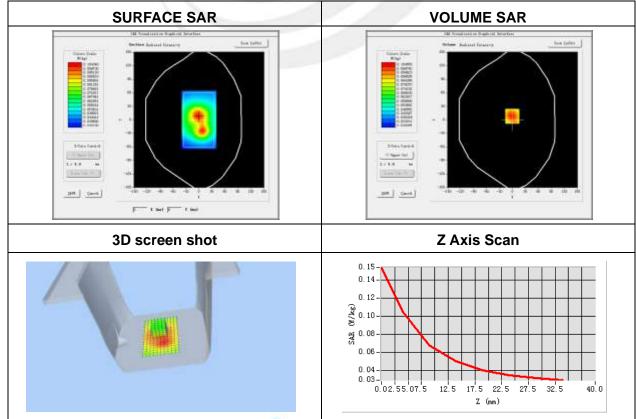


Plot 51: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body bottom side   |
| Band                              | WCDMA V  |
| Channels                          | Middle   |
| Signal                            | WCDMA (Crest factor: 1.0)  |
| Frequency (MHz)                   | 836.6  |
| Relative permittivity (real part) | 55.5   |
| Conductivity (S/m)                | 0.96   |
| Variation (%)                     | 0.17   |

Maximum location: X=-1.00, Y=8.00 SAR Peak: 0.15 W/kg

| SAR 10g (W/Kg) | 0.070598 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.103176 |



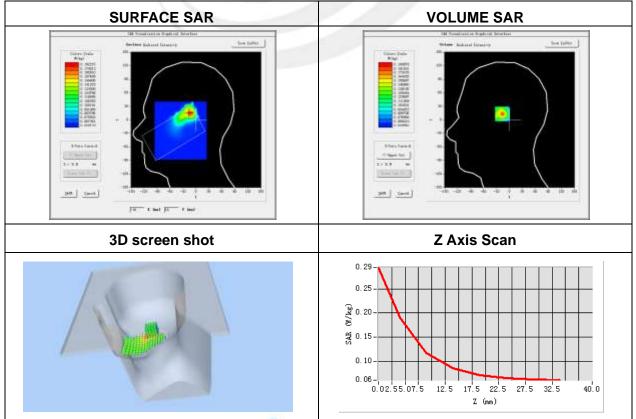


Plot 52: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>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 (%)                     | -1.32  |

Maximum location: X=-14.00, Y=15.00 SAR Peak: 0.30 W/kg

| SAR 10g (W/Kg) | 0.110667 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.179805 |



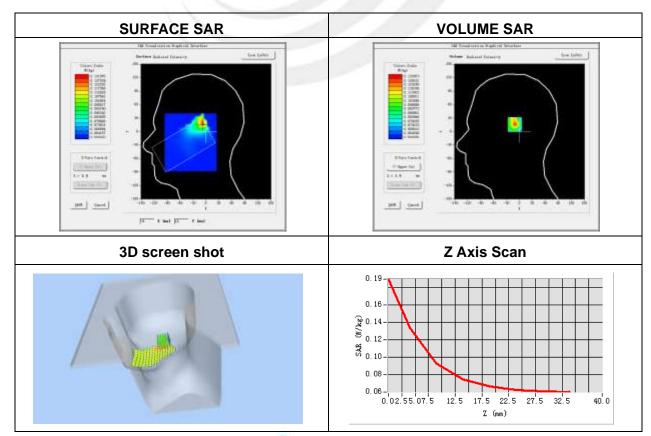


Plot 53: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Right 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) | 37.8   |
| Conductivity (S/m)                | 1.86   |
| Variation (%)                     | -0.16  |

Maximum location: X=-8.00, Y=17.00 SAR Peak: 0.19 W/kg

| SAR 10g (W/Kg) | 0.088495 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.126634 |



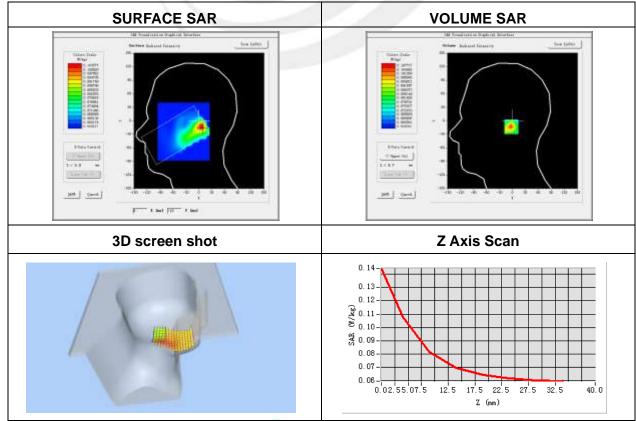


Plot 54: DUT: smart phone; EUT Model: V55

| T 15                              | 2045 40 07   |
|-----------------------------------|--|
| Test Data                         | 2015-12-07   |
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Left 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 (%)                     | -0.62  |

Maximum location: X=6.00, Y=-13.00 SAR Peak: 0.14 W/kg

| SAR 10g (W/Kg) | 0.079779 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.104255 |



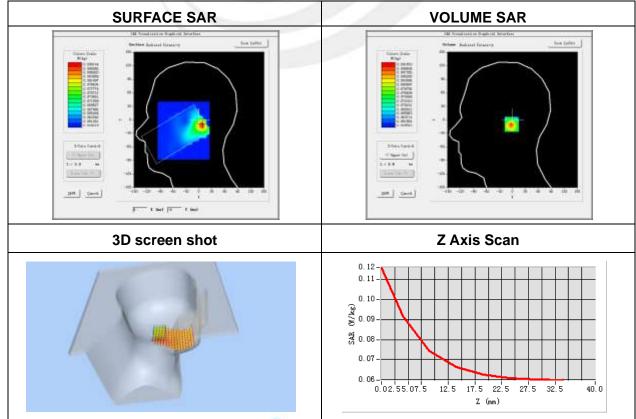


Plot 55: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>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 (%)                     | -0.90  |

Maximum location: X=7.00, Y=-10.00 SAR Peak: 0.12 W/kg

| SAR 10g (W/Kg) | 0.073015 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.089325 |



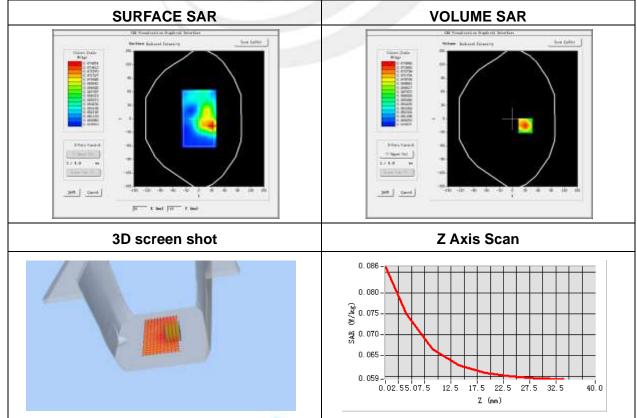


Plot 56: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>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 (%)                     | -0.05  |

Maximum location: X=30.00, Y=-15.00 SAR Peak: 0.09 W/kg

|                | •        |
|----------------|----------|
| SAR 10g (W/Kg) | 0.066414 |
| SAR 1g (W/Kg)  | 0.074115 |



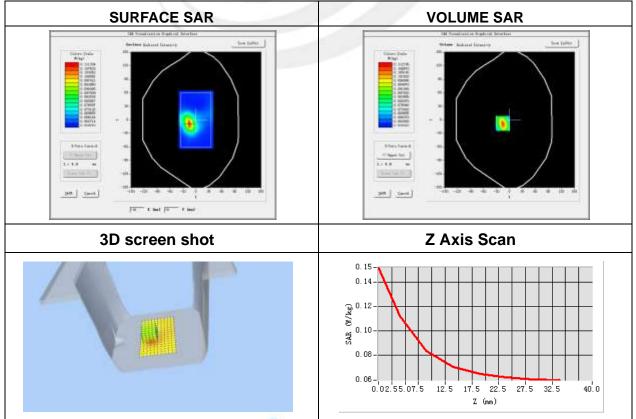


Plot 57: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>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 (%)                     | 0.20   |

Maximum location: X=-16.00, Y=-8.00 SAR Peak: 0.15 W/kg

| SAR 10g (W/Kg) | 0.080702 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.108466 |



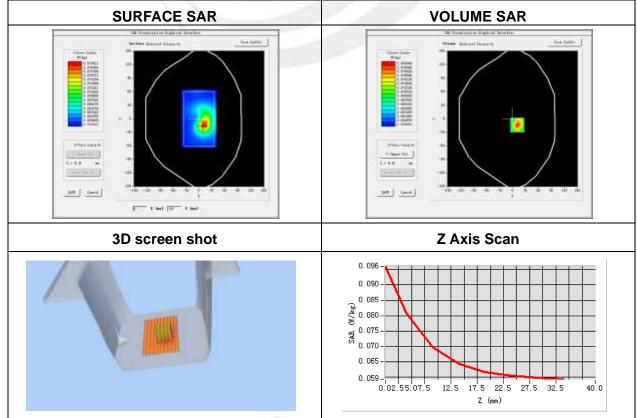


Plot 58: DUT: smart phone; EUT Model: V55

| 2015-12-07   |
|--|
| 22.70  |
| 22.30  |
| SN 17/14 EP221   |
| 4.25   |
| dx=8mm dy=8mm, h= 5.00 mm  |
| 5x5x7,dx=8mm dy=8mm dz=5mm,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane   |
| Body left side   |
| IEEE 802.11b ISM   |
| High   |
| IEEE802.b (Crest factor: 1.0)                                      |
| 2462   |
| 51.2   |
| 1.95   |
| -0.19  |
|  |

Maximum location: X=-11.00, Y=-14.00 SAR Peak: 0.10 W/kg

| SAR 10g (W/Kg) | 0.068942 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.079587 |



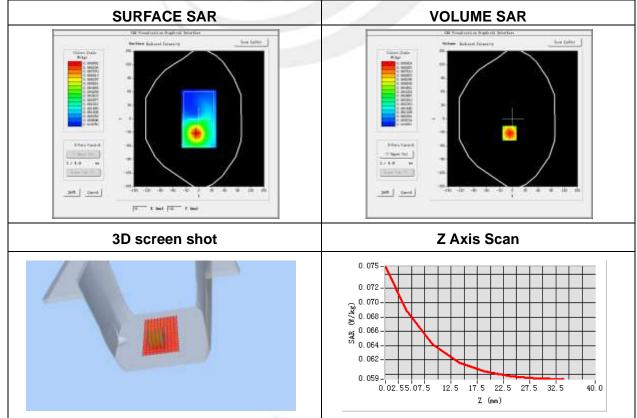


Plot 59: DUT: smart phone; EUT Model: V55

| Test Data                         | 2015-12-07   |
|-----------------------------------|--|
| 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,<br>Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom                           | Validation plane   |
| Device Position                   | Body Top side  |
| 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 (%)                     | -0.07  |

Maximum location: X=-7.00, Y=-32.00 SAR Peak: 0.08 W/kg

| SAR 10g (W/Kg) | 0.064061 |
|----------------|----------|
| SAR 1g (W/Kg)  | 0.068524 |





## Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

\*\*\*\*\*END OF THE REPORT\*\*\*