

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013**

Product Name : Mobile Phone

Trademark : ulefone

Model Name : GQ3086

Family Model : Armor 9, Armor 9E, Armor 9S, Armor 9P,
Armor 7X, Armor 7A, Armor 9 Pro,
Armor 9 Lite

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Shenzhen 518057 P.R.China**Product description**

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Armor 9 Pro, Armor 9 Lite

FCC 47 CFR Part 2(2.1093)

ANSI/IEEE C95.1-1992

Standards.....: IEEE Std 1528-2013

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. 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.

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Date of Test

Date (s) of performance of tests.....: Mar. 27, 2020 ~ Jun. 17, 2020

Date of Issue.....: Jun. 24, 2020

Test Result.....: **Pass**Prepared By
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※ ※ Revision History ※ ※

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TABLE OF CONTENTS

1. General Information	6
1.1. RF exposure limits.....	6
1.2. Statement of Compliance	7
1.3. EUT Description	7
1.4. Test specification(s)	10
1.5. Ambient Condition.....	10
2. SAR Measurement System	11
2.1. SATIMO SAR Measurement Set-up Diagram	11
2.2. Robot	12
2.3. E-Field Probe.....	13
2.3.1. E-Field Probe Calibration	13
2.4. SAM phantoms	14
2.4.1. Technical Data	15
2.5. Device Holder	16
2.6. Test Equipment List	17
3. SAR Measurement Procedures	19
3.1. Power Reference	19
3.2. Area scan & Zoom scan.....	19
3.3. Description of interpolation/extrapolation scheme	21
3.4. Volumetric Scan	21
3.5. Power Drift	21
4. System Verification Procedure	22
4.1. Tissue Verification	22
4.1.1. Tissue Dielectric Parameter Check Results	23
4.2. System Verification Procedure	24
4.2.1. System Verification Results	24
5. SAR Measurement variability and uncertainty	26
5.1. SAR measurement variability.....	26
5.2. SAR measurement uncertainty	26
6. RF Exposure Positions	27
6.1. Ear and handset reference point	27
6.2. Definition of the cheek position	27
6.3. Definition of the tilt position	29
6.4. Body Worn Accessory	29
6.5. Wireless Router Devices	30
7. RF Output Power	31
7.1. GSM Conducted Power	31
7.2. WCDMA Conducted Power	32
7.3. CDMA Conducted Power	33

7.4. LTE Conducted Power	33
7.5. WLAN & Bluetooth Output Power	46
7.5.1. Output Power Results Of WLAN	46
7.5.2. Output Power Results Of Bluetooth.....	47
8. Antenna Location.....	48
9. Stand-alone SAR test exclusion.....	49
10. SAR Results	50
10.1. SAR measurement results.....	50
10.1.1. SAR measurement Result of GSM850.....	50
10.1.2. SAR measurement Result of GSM1900.....	50
10.1.3. SAR measurement Result of WCDMA Band 2.....	51
10.1.4. SAR measurement Result of WCDMA Band 4.....	52
10.1.5. SAR measurement Result of WCDMA Band 5.....	53
10.1.6. SAR measurement Result of CDMA Band BC0.....	53
10.1.7. SAR measurement Result of CDMA Band BC1.....	55
10.1.8. SAR measurement Result of LTE Band 2.....	56
10.1.9. SAR measurement Result of LTE Band 4.....	57
10.1.10. SAR measurement Result of LTE Band 5.....	59
10.1.11. SAR measurement Result of LTE Band 7.....	61
10.1.12. SAR measurement Result of LTE Band 17.....	63
10.1.13. SAR measurement Result of LTE Band 66.....	64
10.1.14. SAR measurement Result of WLAN 2.4G.....	66
10.1.15. SAR measurement Result of WLAN 5.2G.....	67
10.1.16. SAR measurement Result of WLAN 5.8G.....	67
10.2. SAR Summation Scenario.....	68
11. Appendix A. Photo documentation	91
12. Appendix B. System Check Plots.....	92
13. Appendix C. Plots of High SAR Measurement.....	125
14. Appendix D. Calibration Certificate	190

1. General Information

1.1. RF exposure limits

(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 1 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.

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).

General Population/Uncontrolled Environments:

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

NOTE
HEAD AND TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for GQ3086 are as follows.

RF Exposure Conditions		Equipment Class - Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.324	0.154	0.568	N/A
1-g Body-Worn (Separation distance of 10mm)		0.825	0.481	0.614	N/A
1-g Hotspot (Separation distance of 10mm)		0.825	0.481	0.614	N/A
Max Simultaneous Tx	Head	0.892	0.478	0.892	0.491
	Body-Worn	1.439	1.306	1.439	0.909
	Hotspot	1.439	1.306	1.439	0.909

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	Mobile Phone
Trade Name	ulefone
Model Name	GQ3086
Family Model	Armor 9, Armor 9E, Armor 9S, Armor 9P, Armor 7X, Armor 7A, Armor 9 Pro, Armor 9 Lite
FCC ID	2AOWKGQ3086
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	PIFA Antenna
Battery Information	DC 3.85V, 6600mAh
Device Operating Configurations	
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, CDMA Band BC0/1, LTE Band 2/4/5/7/17/66, WLAN 2.4G/5.2G/5.8G, Bluetooth, NFC
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), CDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK), NFC(ASK)
Device Class	B

Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	CDMA Band BC0	824-849	869-894
	CDMA Band BC1	1850-1910	1930-1990
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 17	704-716	734-746
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
	NFC	13.56	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
EDGE Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control "all up"(CDMA Band BC0)		
	3, tested with power control "all up"(CDMA Band BC1)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 66)		
Test Channels (low-mid-high)	128-189-251(GSM 850)		
	512-661-810(GSM 1900)		

9262-9400-9538(WCDMA Band 2)
1312-1413-1513(WCDMA Band 4)
4132-4182-4233(WCDMA Band 5)
1013-384-777(WCDMA Band BC0)
25-600-1175(WCDMA Band BC1)
18607-18900-19193(LTE Band 2 BW=1.4MHz)
18615-18900-19185(LTE Band 2 BW=3MHz)
18625-18900-19175(LTE Band 2 BW=5MHz)
18650-18900-19150(LTE Band 2 BW=10MHz)
18675-18900-19125(LTE Band 2 BW=15MHz)
18700-18900-19100(LTE Band 2 BW=20MHz)
19957-20175-20393(LTE Band 4 BW=1.4MHz)
19965-20175-20385(LTE Band 4 BW=3MHz)
19975-20175-20375(LTE Band 4 BW=5MHz)
20000-20175-20350(LTE Band 4 BW=10MHz)
20025-20175-20325(LTE Band 4 BW=15MHz)
20050-20175-20300(LTE Band 4 BW=20MHz)
20407-20525-20643(LTE Band 5 BW=1.4MHz)
20415-20525-20635(LTE Band 5 BW=3MHz)
20425-20525-20625(LTE Band 5 BW=5MHz)
20450-20525-20600(LTE Band 5 BW=10MHz)
20775-21100-21425(LTE Band 7 BW=5MHz)
20800-21100-21400(LTE Band 7 BW=10MHz)
20825-21100-21375(LTE Band 7 BW=15MHz)
20850-21100-21350(LTE Band 7 BW=20MHz)
23755-23790-23825(LTE Band 17 BW=5MHz)
23780-23790-23800(LTE Band 17 BW=10MHz)
131979-132322-132665 (LTE Band 66 BW=1.4MHz)
131987-132322-132657 (LTE Band 66 BW=3MHz)
131997-132322-132647 (LTE Band 66 BW=5MHz)
132022-132322-132622 (LTE Band 66 BW=10MHz)
132047-132322-132597 (LTE Band 66 BW=15MHz)
132072-132322-132572 (LTE Band 66 BW=20MHz)
1-3-6-9-11(WLAN 2.4G)
36-38-40-42-46-48(WLAN 5.2G)
149-151-155-157-159-165(WLAN 5.8G)

1.4. Test specification(s)

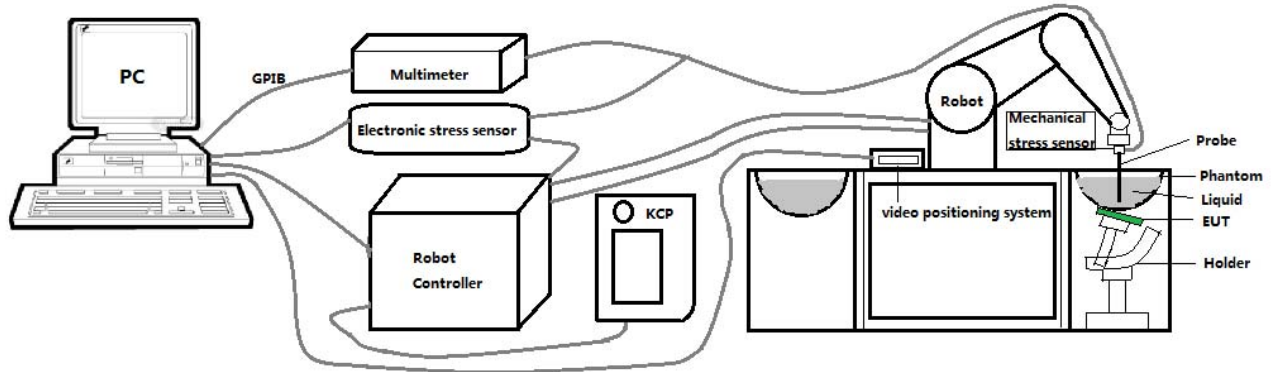
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR
KDB 648474 D04 Handset SAR

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe SN 08/16 EPGO287 with following specifications is used



- Dynamic range: 0.01-100 W/kg
 - Tip Diameter: 2.5 mm
 - Distance between probe tip and sensor center: 1 mm
 - Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
 - Probe linearity: ± 0.08 dB
 - Axial isotropy: 0.06 dB
 - Hemispherical Isotropy: 0.08 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 7mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. SAM phantoms

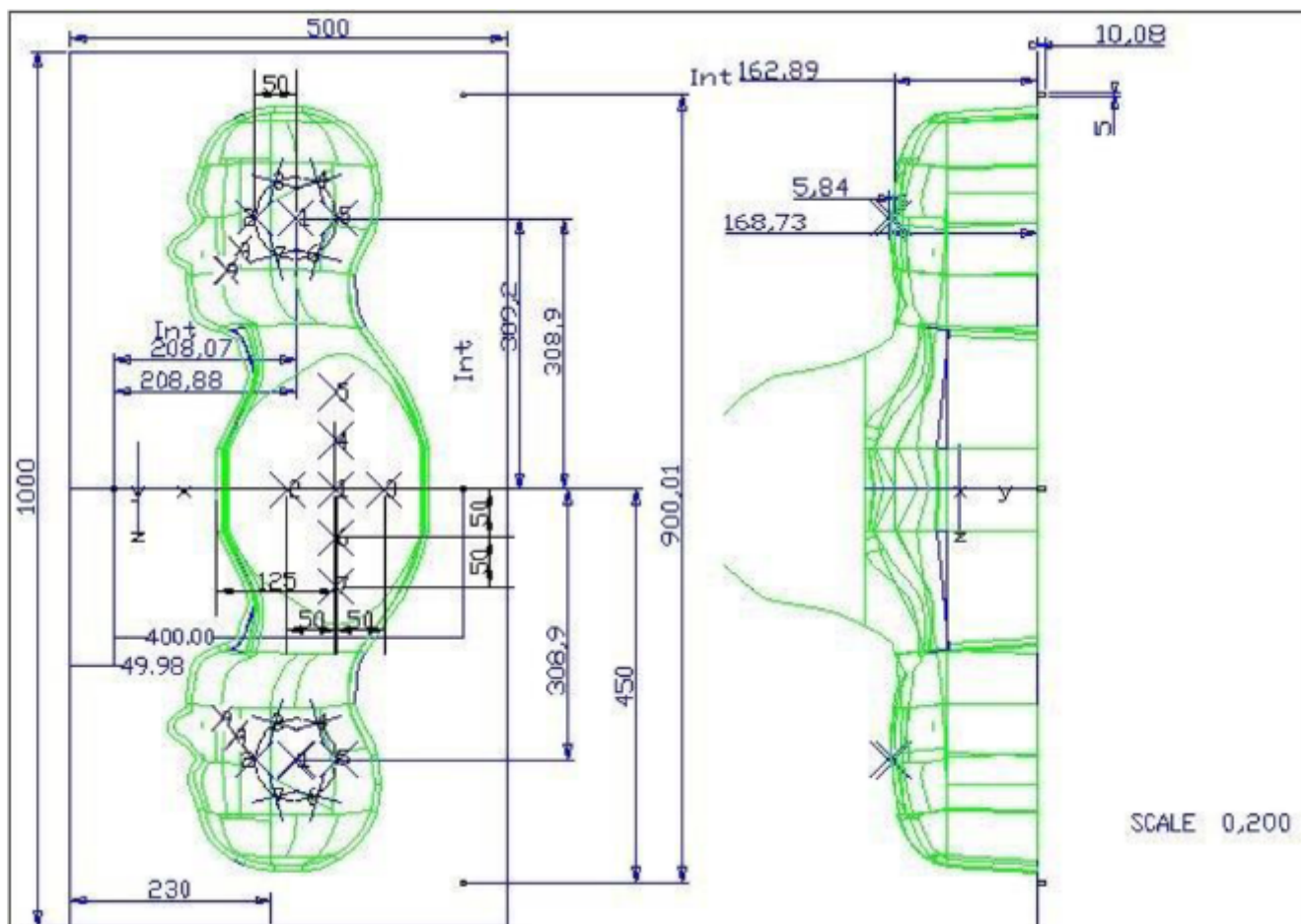
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by mobile phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

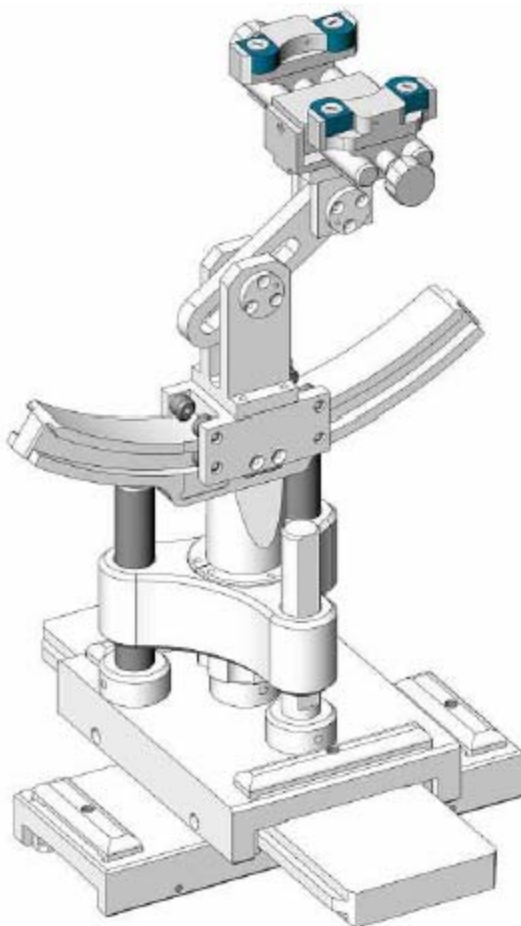


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 μm .

2.5. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	SN 08/16 EPGO287	Dec. 27, 2019	Dec. 26, 2020
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Apr. 19, 2018	Apr. 18, 2021
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Apr. 19, 2018	Apr. 18, 2021
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Apr. 19, 2018	Apr. 18, 2021
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
☒	R&S	Universal radio communication tester	CMU200	117858	Aug. 06, 2019	Aug. 05, 2020
☒	R&S	Wideband radio communication tester	CMW500	103917	Aug. 28, 2019	Aug. 27, 2020
☒	HP	Network Analyzer	8753D	3410J01136	Aug. 06, 2019	Aug. 05, 2020
☒	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Aug. 06, 2019	Aug. 05, 2020

☒	Agilent	Power meter	E4419B	MY45102538	Aug. 06, 2019	Aug. 05, 2020
☒	Agilent	Power sensor	E9301A	MY41495644	Aug. 06, 2019	Aug. 05, 2020
☒	Agilent	Power sensor	E9301A	US39212148	Aug. 06, 2019	Aug. 05, 2020
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Aug. 06, 2019	Aug. 05, 2020

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/Bluetooth output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/Bluetooth continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 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.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	≤ 1.5 · $\Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23
Ingredients (% of weight)	Body Tissue									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	50.30	50.30	50.30	69.91	69.91	71.88	71.88	71.88	79.54	79.54
NaCl	0.60	0.60	0.60	0.13	0.13	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	49.10	49.10	49.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	9.99	9.99	19.97	19.97	19.97	11.24	11.24
DGBE	0.00	0.00	0.00	19.97	19.97	7.99	7.99	7.99	9.22	9.22

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

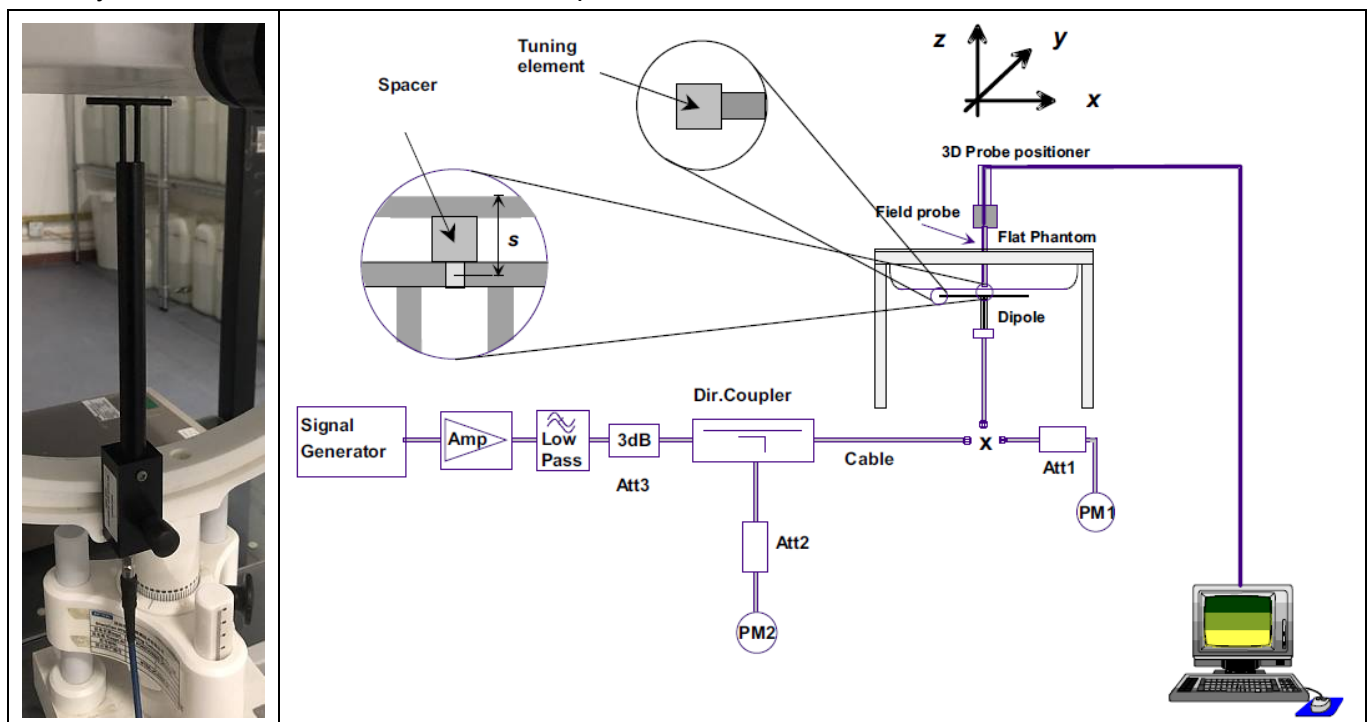
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	40.41	0.92	21.2 °C	Apr. 12, 2020
Body 750	750	55.55 (52.77~58.33)	0.96 (0.91~1.01)	55.26	0.97	21.3 °C	Apr. 12, 2020
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	40.34	0.94	21.5 °C	Apr. 14, 2020
Body 850	835	55.20 (52.44~57.96)	0.97 (0.92~1.02)	54.35	0.99	21.4 °C	Apr. 14, 2020
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.30	1.42	21.7 °C	Apr. 16, 2020
Body 1800	1800	53.30 (50.64~55.97)	1.52 (1.44~1.60)	52.96	1.58	21.5 °C	Apr. 16, 2020
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	40.86	1.46	21.5 °C	Apr. 18, 2020
Body 1900	1900	53.30 (50.64~55.97)	1.52 (1.44~1.60)	52.46	1.54	21.4 °C	Apr. 18, 2020
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.40	1.87	21.5 °C	Apr. 20, 2020
Body 2450	2450	52.70 (50.07~55.34)	1.95 (1.85~2.05)	51.74	2.03	21.5 °C	Apr. 20, 2020
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.77	2.04	21.4 °C	Apr. 21, 2020
Body 2600	2600	52.51 (49.88~55.14)	2.16 (2.05~2.27)	52.46	2.22	21.2 °C	Apr. 21, 2020
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.53	4.69	21.5 °C	Apr. 22, 2020
Body 5200	5200	49.00 (46.55~51.45)	5.30 (5.04~5.57)	49.52	5.31	21.4 °C	Apr. 22, 2020
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.44	5.24	21.4 °C	Apr. 23, 2020
Body 5800	5800	48.20 (45.79~50.61)	6.00 (5.70~6.30)	48.21	6.10	21.1 °C	Apr. 23, 2020

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100mW (below 5GHz) or 100mW (above 5GHz). To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of $\pm 10\%$. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Target SAR (1W) (±10%)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)		
750MHz Head	8.56 (7.70~9.42)	5.55 (5.00~6.11)	8.19	5.65	21.2 °C	Apr. 12, 2020
750MHz Body	8.85 (7.97~9.74)	5.91 (5.32~6.50)	8.41	5.73	21.3 °C	Apr. 12, 2020
835MHz Head	9.55 (8.60~10.51)	6.10 (5.49~6.71)	9.31	6.13	21.5 °C	Apr. 14, 2020
835MHz Body	9.83 (8.85~10.81)	6.45 (5.81~7.10)	10.46	6.22	21.4 °C	Apr. 14, 2020
1800MHz Head	38.11 (34.30~41.92)	20.05 (18.05~22.06)	37.11	21.00	21.7 °C	Apr. 16, 2020
1800MHz Body	38.13 (34.32~41.94)	20.65 (18.59~22.72)	37.97	21.72	21.5 °C	Apr. 16, 2020
1900MHz Head	38.92 (35.03~42.81)	20.09 (18.08~22.10)	37.48	20.84	21.5 °C	Apr. 18, 2020
1900MHz Body	39.02 (35.12~42.92)	20.57 (18.51~22.63)	39.08	20.10	21.4 °C	Apr. 18, 2020
2450MHz Head	53.76 (48.38~59.14)	24.12 (21.71~26.53)	51.21	23.50	21.5 °C	Apr. 20, 2020
2450MHz Body	52.90 (47.61~58.19)	24.09 (21.68~26.50)	51.86	22.81	21.5 °C	Apr. 20, 2020
2600MHz Head	55.60 (50.04~61.16)	24.60 (22.14~27.06)	55.69	23.91	21.4 °C	Apr. 21, 2020
2600MHz Body	52.49 (47.24~57.74)	23.74 (21.37~26.11)	50.69	23.04	21.2 °C	Apr. 21, 2020
5200MHz Head	160.94 (144.85~177.03)	55.97 (50.37~61.57)	156.85	56.98	21.5 °C	Apr. 22, 2020
5200MHz Body	156.85 (141.17~172.54)	55.20 (49.68~60.72)	155.63	54.86	21.4 °C	Apr. 22, 2020
5800MHz Head	184.13 (165.72~202.54)	62.74 (56.47~69.01)	181.09	62.83	21.4 °C	Apr. 23, 2020
5800MHz Body	169.30 (152.37~186.23)	58.49 (52.64~64.34)	167.80	55.07	21.1 °C	Apr. 23, 2020

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 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 ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Ear and handset reference point

Figure 6.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M”, the left ear reference point (ERP) is marked “LE”, and the right ERP is marked “RE”.



Fig 6.1.1 Front, back, and side views of SAM phantom

6.2. Definition of the cheek position

1. Define two imaginary lines on the handset, the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset: the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 6.2.1 and Figure 6.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 6.2.1). 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 parallel to the front face of the handset (see Figure 6.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
2. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
3. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP
4. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
5. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.

6. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 6.2.3. The actual rotation angles should be documented in the test report.

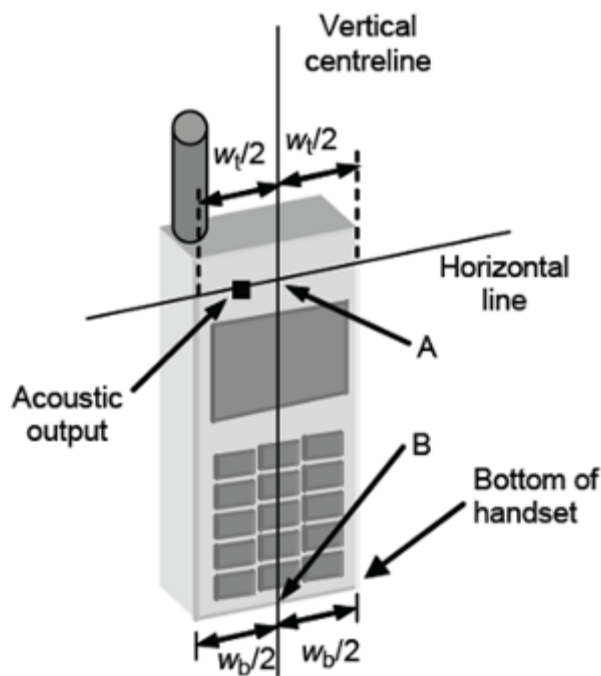


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case"

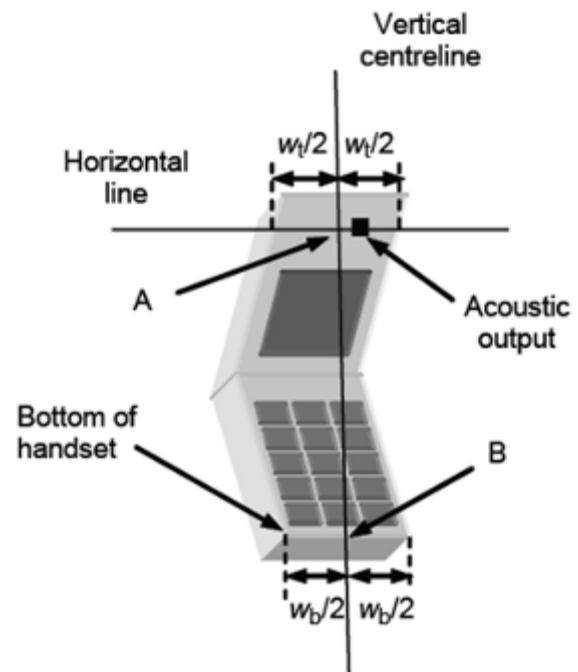


Fig 6.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

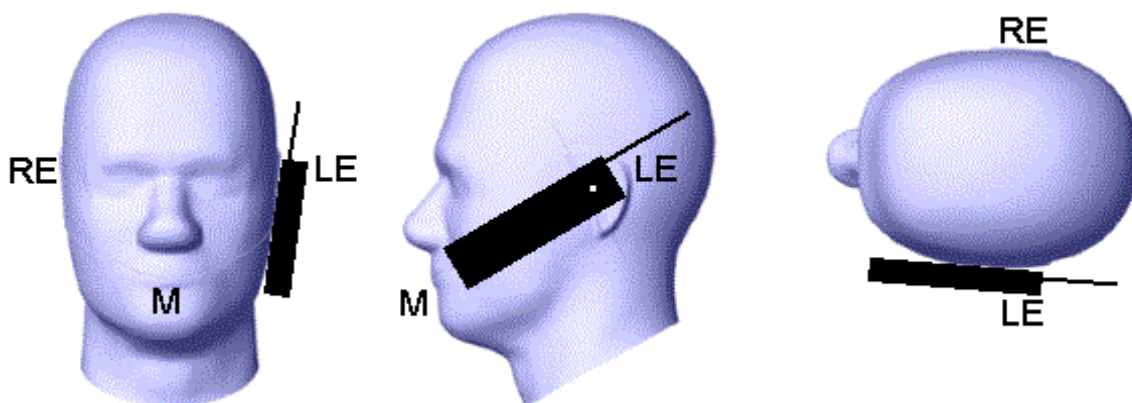


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

6.3. Definition of the tilt position

1. While maintaining the orientation of the handset, retract the handset parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15 degree.
2. Rotate the Handset around the horizontal line by 15 degree (see Figure 6.3.1).
3. While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g., the antenna with the back of the phantom head, the angle of the handset shall be reduced. In this case, the tilt position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is in contact with the phantom, e.g., the antenna with the back of the head.

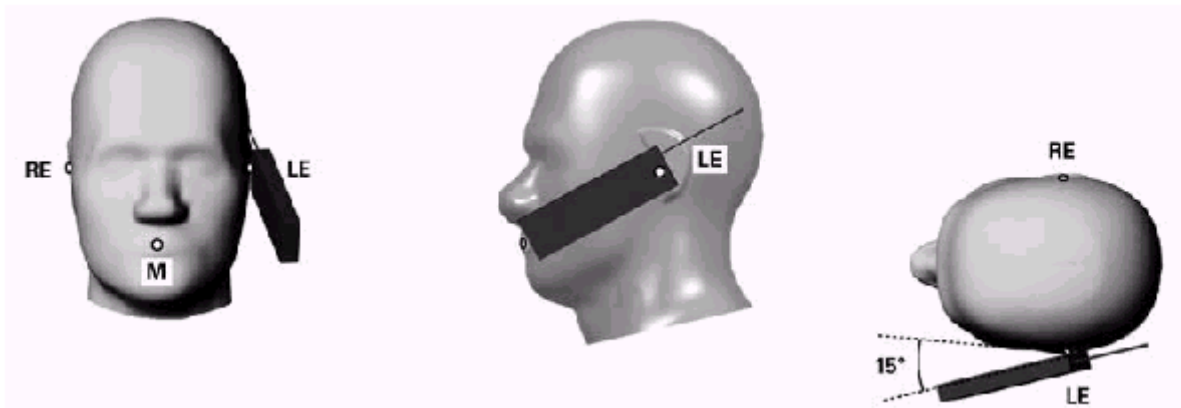


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

6.4. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $< 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest

spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

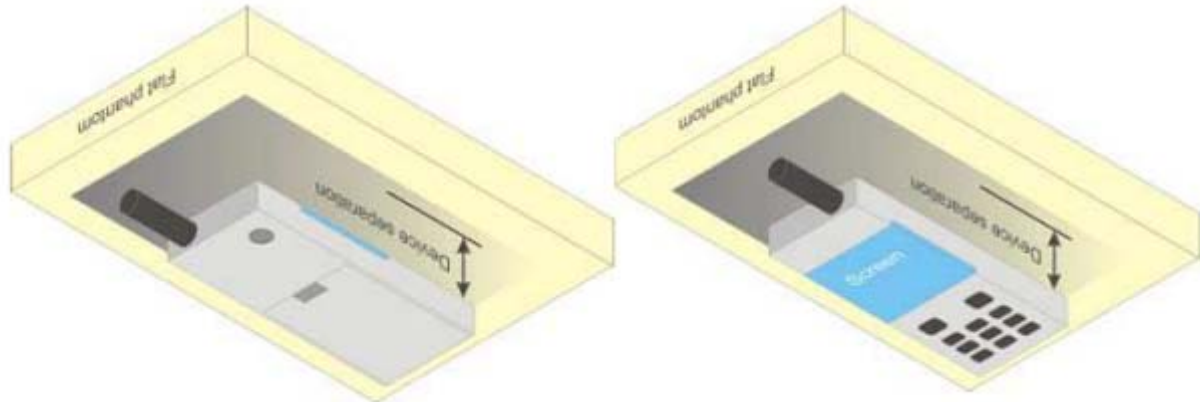


Figure 6.4.1 – Test positions for body-worn devices

6.5. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	128	189	251	Tune-up	128	189	251
Frequency (MHz)	(dBm)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM (GMSK)	33.00	32.54	32.69	32.72	23.97	23.51	23.66	23.69
GPRS(GMSK, 1 TS)	33.00	32.80	32.68	32.72	23.97	23.77	23.65	23.69
GPRS(GMSK, 2 TS)	33.00	32.27	32.16	32.22	26.98	26.25	26.14	26.20
GPRS(GMSK, 3 TS)	31.00	30.17	30.07	30.12	26.74	25.91	25.81	25.86
GPRS(GMSK, 4 TS)	29.00	29.00	28.93	28.99	25.99	25.99	25.92	25.98
EDGE(8PSK, 1 TS)	29.00	28.17	28.10	27.73	19.97	19.14	19.07	18.70
EDGE(8PSK, 2 TS)	27.00	26.97	26.75	26.11	20.98	20.95	20.73	20.09
EDGE(8PSK, 3 TS)	25.00	24.88	24.84	24.21	20.74	20.62	20.58	19.95
EDGE(8PSK, 4 TS)	24.00	23.68	23.55	23.03	20.99	20.67	20.54	20.02
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up	512	661	810	Tune-up	512	661	810
Frequency (MHz)	(dBm)	1850.2	1880.0	1909.8	(dBm)	1850.2	1880.0	1909.8
GSM (GMSK)	31.00	30.30	30.52	30.50	21.97	21.27	21.49	21.47
GPRS(GMSK, 1 TS)	31.00	30.29	30.52	30.48	21.97	21.26	21.49	21.45
GPRS(GMSK, 2 TS)	30.00	29.23	29.47	29.45	23.98	23.21	23.45	23.43
GPRS(GMSK, 3 TS)	28.00	27.13	27.35	27.34	23.74	22.87	23.09	23.08
GPRS(GMSK, 4 TS)	27.00	26.07	26.30	26.29	23.99	23.06	23.29	23.28
EDGE(8PSK, 1 TS)	27.00	26.48	26.68	26.57	17.97	17.45	17.65	17.54
EDGE(8PSK, 2 TS)	26.00	25.17	25.15	25.13	19.98	19.15	19.13	19.11
EDGE(8PSK, 3 TS)	24.00	23.02	23.02	22.88	19.74	18.76	18.76	18.62
EDGE(8PSK, 4 TS)	22.00	21.65	21.66	21.44	18.99	18.64	18.65	18.43

Note: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 TS) - 9.03 dB

Frame-averaged power = Maximum burst averaged power (2 TS) - 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 TS) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 TS) - 3.01 dB

7.2. WCDMA Conducted Power

Band	WCDMA Band 2			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC 12.2Kbps	24.00	23.86	23.85	24.00
HSDPA Subtest-1	24.00	23.04	22.90	23.03
HSDPA Subtest-2	23.00	22.32	22.46	22.10
HSDPA Subtest-3	22.00	21.61	21.51	21.59
HSDPA Subtest-4	22.00	21.63	21.40	21.17
HSUPA Subtest-1	23.00	22.65	22.39	22.55
HSUPA Subtest-2	24.00	22.86	22.84	23.01
HSUPA Subtest-3	22.00	21.52	21.55	21.55
HSUPA Subtest-4	24.00	23.01	22.87	23.03
HSUPA Subtest-5	23.00	22.42	22.16	22.11
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC 12.2Kbps	24.00	23.40	23.44	23.50
HSDPA Subtest-1	23.00	22.31	22.25	22.38
HSDPA Subtest-2	22.00	21.82	21.80	21.76
HSDPA Subtest-3	21.00	20.92	20.35	20.90
HSDPA Subtest-4	21.00	20.99	20.95	20.93
HSUPA Subtest-1	22.00	21.97	21.94	21.82
HSUPA Subtest-2	23.00	22.29	22.18	22.36
HSUPA Subtest-3	21.00	20.85	20.82	20.83
HSUPA Subtest-4	23.00	22.39	22.23	22.34
HSUPA Subtest-5	22.00	21.83	21.33	21.21
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC 12.2Kbps	25.00	24.17	24.08	23.81
HSDPA Subtest-1	24.00	23.29	23.16	22.98
HSDPA Subtest-2	23.00	22.63	22.52	22.31
HSDPA Subtest-3	22.00	21.38	21.93	21.53
HSDPA Subtest-4	22.00	21.64	21.76	21.22
HSUPA Subtest-1	23.00	22.92	22.67	22.51
HSUPA Subtest-2	24.00	23.16	23.03	22.92
HSUPA Subtest-3	22.00	21.90	21.77	21.58

HSUPA Subtest-4	24.00	23.24	23.14	22.97
HSUPA Subtest-5	23.00	22.60	22.02	21.98

7.3. CDMA Conducted Power

Band	CDMA Band BC0			
Tx Channel	Tune-up	1013	384	777
Frequency (MHz)		824.7	836.52	848.31
1xRTT(RC1,SO55)	25.00	24.97	24.97	24.88
1xRTT(RC3,SO55)	25.00	24.96	24.94	24.87
1xRTT(RC3,SO32(+F-SCH))	25.00	24.86	24.75	24.58
1xEV-Do Rel.0	25.00	24.58	24.65	24.72
1xEV-Do Rev.A	25.00	24.28	24.26	24.25
Band	CDMA Band BC1			
Tx Channel	Tune-up	25	600	1175
Frequency (MHz)		1851.25	1880	1908.75
1xRTT(RC1,SO55)	25.00	24.15	24.14	24.10
1xRTT(RC3,SO55)	25.00	24.19	24.13	24.14
1xRTT(RC3,SO32(+F-SCH))	25.00	24.15	24.11	24.23
1xEV-Do Rel.0	25.00	24.10	24.10	24.12
1xEV-Do Rev.A	25.00	24.05	24.01	24.10

7.4. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.33	23.24	23.31
			1	2	24.00	23.28	23.30	23.35
			1	5	24.00	23.20	23.23	23.29
			3	0	24.00	23.30	23.37	23.41
			3	1	24.00	23.32	23.38	23.49
			3	2	24.00	23.25	23.36	23.44
		16QAM	6	0	23.00	22.31	22.37	22.49
			1	0	23.00	22.05	22.45	22.50
			1	2	23.00	22.16	22.52	22.55
			1	5	23.00	22.06	22.46	22.51
			3	0	23.00	22.46	22.56	22.66
			3	1	23.00	22.50	22.59	22.72

			3	2	23.00	22.47	22.56	22.62
			6	0	22.00	21.55	21.62	21.65
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.00	23.12	23.13	23.20
			1	7	24.00	23.20	23.22	23.33
			1	14	24.00	23.09	23.15	23.22
			8	0	23.00	22.30	22.30	22.39
			8	4	23.00	22.36	22.39	22.42
			8	7	23.00	22.33	22.37	22.40
			15	0	23.00	22.36	22.38	22.43
		16QAM	1	0	23.00	22.54	22.39	22.09
			1	7	23.00	22.64	22.43	22.20
			1	14	23.00	22.53	22.37	22.09
			8	0	22.00	21.35	21.35	21.37
			8	4	22.00	21.38	21.41	21.46
			8	7	22.00	21.32	21.30	21.41
			15	0	22.00	21.38	21.34	21.54
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	24.00	23.34	23.46	23.46
			1	12	24.00	23.39	23.54	23.56
			1	24	24.00	23.30	23.44	23.50
			12	0	23.00	22.44	22.41	22.53
			12	6	23.00	22.45	22.53	22.57
			12	11	23.00	22.39	22.46	22.53
			25	0	23.00	22.42	22.49	22.51
		16QAM	1	0	24.00	22.71	23.07	22.80
			1	12	24.00	22.78	23.10	22.91
			1	24	24.00	22.72	23.01	22.83
			12	0	22.00	21.44	21.42	21.44
			12	6	22.00	21.51	21.50	21.53
			12	11	22.00	21.43	21.53	21.46
			25	0	22.00	21.44	21.48	21.52
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.00	23.49	23.56	23.58
			1	24	24.00	23.51	23.61	23.62
			1	49	24.00	23.53	23.56	23.59
			25	0	23.00	22.44	22.45	22.51
			25	12	23.00	22.52	22.55	22.56
			25	24	23.00	22.42	22.53	22.57
			50	0	23.00	22.47	22.49	22.55
		16QAM	1	0	23.00	22.71	22.44	22.97
			1	24	23.00	22.73	22.47	23.00
			1	49	23.00	22.71	22.43	23.00
			25	0	22.00	21.46	21.44	21.57
			25	12	22.00	21.49	21.53	21.62
			25	24	22.00	21.45	21.57	21.59
			50	0	22.00	21.49	21.51	21.55
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	24.00	23.56	23.51	23.57
			1	37	24.00	23.58	23.49	23.58
			1	74	24.00	23.58	23.51	23.59
			36	0	23.00	22.49	22.47	22.53
			36	18	23.00	22.50	22.55	22.55
			36	37	23.00	22.50	22.58	22.58
			75	0	23.00	22.51	22.60	22.59
		16QAM	1	0	24.00	22.74	22.68	23.00
			1	37	24.00	22.76	22.69	23.03
			1	74	24.00	22.74	22.67	23.00
			36	0	22.00	21.58	21.45	21.57
			36	18	22.00	21.59	21.55	21.61
			36	37	22.00	21.59	21.53	21.61
			75	0	22.00	21.49	21.60	21.57
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band	20MHz	QPSK	1	0	24.00	23.50	23.55	23.57
			1	49	24.00	23.58	23.63	23.59

2			1	99	24.00	23.47	23.53	23.53
			50	0	23.00	22.57	22.50	22.69
			50	24	23.00	22.58	22.61	22.60
			50	49	23.00	22.55	22.60	22.65
			100	0	23.00	22.51	22.53	22.62
		16QAM	1	0	23.00	22.77	22.84	22.92
			1	49	23.00	22.86	22.88	22.96
			1	99	23.00	22.78	22.82	22.85
			50	0	22.00	21.56	21.55	21.73
			50	24	22.00	21.57	21.62	21.68
			50	49	22.00	21.51	21.66	21.70
			100	0	22.00	21.47	21.56	21.65

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	24.00	23.32	23.18	23.18
			1	2	24.00	23.35	23.24	23.26
			1	5	24.00	23.22	23.15	23.18
			3	0	24.00	23.41	23.30	23.31
			3	1	24.00	23.47	23.34	23.38
			3	2	24.00	23.40	23.31	23.32
			6	0	23.00	22.40	22.33	22.38
		16QAM	1	0	23.00	22.36	22.39	22.11
			1	2	23.00	22.43	22.42	22.17
			1	5	23.00	22.39	22.35	22.10
			3	0	23.00	22.49	22.51	22.46
			3	1	23.00	22.54	22.57	22.57
			3	2	23.00	22.51	22.50	22.49
			6	0	22.00	21.60	21.49	21.57
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.00	23.13	23.04	23.14
			1	7	24.00	23.20	23.14	23.20
			1	14	24.00	23.09	23.10	23.19
			8	0	23.00	22.34	22.24	22.32
			8	4	23.00	22.37	22.32	22.35

			8	7	23.00	22.32	22.27	22.32
			15	0	23.00	22.34	22.32	22.35
		16QAM	1	0	23.00	22.50	22.28	22.01
			1	7	23.00	22.62	22.35	22.11
			1	14	23.00	22.53	22.28	22.02
			8	0	22.00	21.34	21.29	21.25
			8	4	22.00	21.42	21.30	21.36
			8	7	22.00	21.36	21.28	21.32
			15	0	22.00	21.39	21.24	21.44
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	24.00	23.35	23.32	23.43
			1	12	24.00	23.45	23.39	23.47
			1	24	24.00	23.40	23.28	23.37
			12	0	23.00	22.45	22.29	22.34
			12	6	23.00	22.50	22.41	22.48
			12	11	23.00	22.41	22.34	22.41
			25	0	23.00	22.40	22.35	22.41
		16QAM	1	0	24.00	22.68	22.65	22.99
			1	12	24.00	22.81	22.69	23.06
			1	24	24.00	22.74	22.60	22.92
			12	0	22.00	21.39	21.34	21.41
			12	6	22.00	21.44	21.44	21.50
			12	11	22.00	21.34	21.35	21.46
			25	0	22.00	21.42	21.34	21.43
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	24.00	23.44	23.45	23.46
			1	24	24.00	23.50	23.44	23.48
			1	49	24.00	23.45	23.54	23.46
			25	0	23.00	22.46	22.31	22.40
			25	12	23.00	22.48	22.39	22.45
			25	24	23.00	22.45	22.34	22.51
			50	0	23.00	22.48	22.36	22.49
		16QAM	1	0	23.00	22.63	22.35	22.92
			1	24	23.00	22.70	22.32	22.93

			1	49	23.00	22.73	22.35	22.91
			25	0	22.00	21.49	21.32	21.48
			25	12	22.00	21.53	21.46	21.55
			25	24	22.00	21.48	21.37	21.55
			50	0	22.00	21.50	21.32	21.50
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	24.00	23.45	23.43	23.41
			1	37	24.00	23.50	23.43	23.46
			1	74	24.00	23.47	23.46	23.42
			36	0	23.00	22.49	22.35	22.48
			36	18	23.00	22.46	22.43	22.47
			36	37	23.00	22.48	22.40	22.45
			75	0	23.00	22.55	22.43	22.49
		16QAM	1	0	23.00	22.83	22.66	22.58
			1	37	23.00	22.94	22.58	22.60
			1	74	23.00	22.93	22.68	22.55
			36	0	22.00	21.53	21.39	21.45
			36	18	22.00	21.48	21.48	21.45
			36	37	22.00	21.52	21.46	21.46
			75	0	22.00	21.52	21.36	21.52
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	24.00	23.44	23.45	23.35
			1	49	24.00	23.53	23.52	23.49
			1	99	24.00	23.43	23.46	23.38
			50	0	23.00	22.51	22.26	22.65
			50	24	23.00	22.53	22.45	22.52
			50	49	23.00	22.67	22.34	22.50
			100	0	23.00	22.62	22.26	22.56
		16QAM	1	0	23.00	22.63	22.75	22.67
			1	49	23.00	22.84	22.72	22.87
			1	99	23.00	22.68	22.77	22.80
			50	0	22.00	21.49	21.29	21.69
			50	24	22.00	21.50	21.51	21.59
			50	49	22.00	21.70	21.37	21.58

			100	0	22.00	21.62	21.29	21.60
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Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	24.00	23.59	23.57	23.42
			1	2	24.00	23.70	23.64	23.43
			1	5	24.00	23.65	23.54	23.37
			3	0	24.00	23.68	23.66	23.50
			3	1	24.00	23.71	23.68	23.52
			3	2	24.00	23.66	23.66	23.49
			6	0	23.00	22.78	22.71	22.56
		16QAM	1	0	23.00	22.45	22.76	22.57
			1	2	23.00	22.55	22.78	22.63
			1	5	23.00	22.49	22.75	22.59
			3	0	23.00	22.84	22.88	22.71
			3	1	23.00	22.86	22.86	22.76
			3	2	23.00	22.80	22.82	22.73
			6	0	22.00	21.94	21.95	21.75

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	24.00	23.41	23.40	23.30
			1	7	24.00	23.50	23.47	23.37
			1	14	24.00	23.44	23.38	23.32
			8	0	23.00	22.65	22.63	22.54
			8	4	23.00	22.69	22.69	22.59
			8	7	23.00	22.68	22.65	22.51
			15	0	23.00	22.65	22.63	22.50
		16QAM	1	0	23.00	22.87	22.66	22.18
			1	7	23.00	22.96	22.74	22.25
			1	14	23.00	22.83	22.64	22.10
			8	0	22.00	21.71	21.69	21.46
			8	4	22.00	21.76	21.72	21.56
			8	7	22.00	21.72	21.65	21.47
			15	0	22.00	21.70	21.65	21.58

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)
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			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	24.00	23.71	23.66	23.54
			1	12	24.00	23.79	23.73	23.58
			1	24	24.00	23.71	23.67	23.50
			12	0	23.00	22.73	22.75	22.63
			12	6	23.00	22.78	22.80	22.63
			12	11	23.00	22.76	22.79	22.58
			25	0	23.00	22.74	22.77	22.67
		16QAM	1	0	24.00	23.20	23.08	22.79
			1	12	24.00	23.29	23.12	22.88
			1	24	24.00	23.23	22.97	22.78
			12	0	22.00	21.76	21.70	21.61
			12	6	22.00	21.80	21.75	21.70
			12	11	22.00	21.76	21.74	21.64
			25	0	22.00	21.74	21.83	21.62
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	24.00	23.83	23.82	23.72
			1	24	24.00	23.83	23.76	23.67
			1	49	24.00	23.82	23.68	23.63
			25	0	23.00	22.86	22.68	22.67
			25	12	23.00	22.89	22.81	22.67
			25	24	23.00	22.80	22.76	22.57
			50	0	23.00	22.86	22.80	22.66
		16QAM	1	0	24.00	23.22	23.07	22.61
			1	24	24.00	23.25	23.01	22.47
			1	49	24.00	23.29	22.86	22.46
			25	0	22.00	21.89	21.74	21.67
			25	12	22.00	21.92	21.83	21.67
			25	24	22.00	21.88	21.78	21.58
			50	0	22.00	21.88	21.82	21.62

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE	5MHz	QPSK	1	0	24.00	23.69	23.70	23.73

Band 7			1	12	24.00	23.82	23.81	23.85
			1	24	24.00	23.69	23.71	23.77
			12	0	23.00	22.76	22.72	22.88
			12	6	23.00	22.80	22.78	22.83
			12	11	23.00	22.79	22.66	22.72
			25	0	23.00	22.81	22.72	22.82
		16QAM	1	0	24.00	23.02	23.20	23.07
			1	12	24.00	23.13	23.32	23.15
			1	24	24.00	23.06	23.26	23.04
			12	0	22.00	21.81	21.73	21.80
			12	6	22.00	21.83	21.77	21.79
			12	11	22.00	21.83	21.72	21.69
			25	0	22.00	21.75	21.71	21.86
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	24.00	23.88	23.78	23.83
			1	24	24.00	23.88	23.84	23.90
			1	49	24.00	23.89	23.90	23.93
			25	0	23.00	22.75	22.81	22.99
			25	12	23.00	22.86	22.82	22.86
			25	24	23.00	22.86	22.76	22.67
			50	0	23.00	22.88	22.87	22.86
		16QAM	1	0	24.00	23.18	22.96	22.68
			1	24	24.00	23.30	22.99	22.73
			1	49	24.00	23.34	23.05	22.71
			25	0	22.00	21.83	21.85	21.99
			25	12	22.00	21.91	21.83	21.91
			25	24	22.00	21.90	21.80	21.70
			50	0	22.00	21.88	21.85	21.82
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	24.00	23.79	23.76	23.82
			1	37	24.00	23.89	23.76	23.88
			1	74	24.00	23.82	23.84	23.88
			36	0	23.00	22.78	22.81	22.90
			36	18	23.00	22.82	22.84	22.88

			36	37	23.00	22.88	22.80	22.79
			75	0	23.00	22.85	22.86	22.87
		16QAM	1	0	24.00	23.01	22.89	23.24
			1	37	24.00	23.07	22.91	23.29
			1	74	24.00	23.03	22.92	23.22
			36	0	22.00	21.84	21.75	21.92
			36	18	22.00	21.91	21.81	21.91
			36	37	22.00	21.91	21.73	21.75
			75	0	22.00	21.82	21.80	21.84
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	24.00	23.79	23.76	23.83
			1	49	24.00	23.94	23.86	23.88
			1	99	24.00	23.84	23.90	23.85
			50	0	23.00	22.74	22.84	22.92
			50	24	23.00	22.90	22.87	22.87
			50	49	23.00	22.99	22.75	22.61
			100	0	23.00	22.87	22.82	22.77
		16QAM	1	0	24.00	23.02	23.08	23.06
			1	49	24.00	23.18	23.20	23.13
			1	99	24.00	23.09	23.21	23.04
			50	0	23.00	21.82	21.89	21.92
			50	24	23.00	21.96	21.89	21.86
			50	49	23.00	22.02	21.83	21.56
			100	0	22.00	21.83	21.84	21.77

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	25.00	24.09	24.10	24.04
			1	12	25.00	24.19	24.08	24.03
			1	24	25.00	24.13	24.00	23.99
			12	0	24.00	23.12	23.09	22.98
			12	6	24.00	23.23	23.15	23.04
			12	11	24.00	23.19	23.09	23.01
			25	0	24.00	23.15	23.10	23.01
		16QAM	1	0	24.00	23.64	23.47	23.34

			1	12	24.00	23.71	23.48	23.29
			1	24	24.00	23.68	23.38	23.24
			12	0	23.00	22.13	22.09	22.03
			12	6	23.00	22.26	22.11	22.09
			12	11	23.00	22.19	22.04	22.04
			25	0	23.00	22.19	22.15	22.01
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	25.00	24.21	24.18	24.18
			1	24	25.00	24.22	24.12	24.19
			1	49	25.00	24.13	24.09	24.13
			25	0	24.00	23.18	23.15	23.13
			25	12	24.00	23.23	23.20	23.14
			25	24	24.00	23.15	23.14	23.11
			50	0	24.00	23.15	23.20	23.19
		16QAM	1	0	24.00	23.10	23.64	23.42
			1	24	24.00	23.09	23.59	23.35
			1	49	24.00	22.95	23.43	23.21
			25	0	23.00	22.18	22.22	22.16
			25	12	23.00	22.25	22.27	22.20
			25	24	23.00	22.24	22.24	22.19
			50	0	23.00	22.21	22.22	22.23

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1710.7	132322/1745	132597/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	24.00	23.45	23.43	23.46
			1	2	24.00	23.52	23.49	23.55
			1	5	24.00	23.43	23.43	23.47
			3	0	24.00	23.56	23.58	23.58
			3	1	24.00	23.60	23.62	23.54
			3	2	24.00	23.56	23.61	23.49
			6	0	23.00	22.55	22.61	22.63
		16QAM	1	0	23.00	22.50	22.72	22.25
			1	2	23.00	22.58	22.76	22.36
			1	5	23.00	22.56	22.72	22.27
			3	0	23.00	22.66	22.86	22.66

			3	1	23.00	22.69	22.91	22.69
			3	2	23.00	22.66	22.86	22.65
			6	0	22.00	21.74	21.82	21.79
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1710.7	132322/1745	132597/1779.3
LTE Band 66	3MHz	QPSK	1	0	24.00	23.31	23.31	23.27
			1	7	24.00	23.44	23.40	23.36
			1	14	24.00	23.36	23.31	23.32
			8	0	23.00	22.53	22.51	22.46
			8	4	23.00	22.59	22.59	22.56
			8	7	23.00	22.52	22.56	22.52
			15	0	23.00	22.53	22.55	22.54
		16QAM	1	0	23.00	22.19	22.74	22.52
			1	7	23.00	22.28	22.90	22.59
			1	14	23.00	22.20	22.77	22.47
			8	0	22.00	21.47	21.60	21.51
			8	4	22.00	21.57	21.68	21.57
			8	7	22.00	21.55	21.58	21.49
			15	0	22.00	21.61	21.59	21.51
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1710.7	132322/1745	132597/1779.3
LTE Band 66	5MHz	QPSK	1	0	24.00	23.53	23.58	23.53
			1	12	24.00	23.62	23.71	23.60
			1	24	24.00	23.58	23.62	23.53
			12	0	23.00	22.61	22.63	22.57
			12	6	23.00	22.66	22.72	22.67
			12	11	23.00	22.55	22.61	22.61
			25	0	23.00	22.61	22.64	22.62
		16QAM	1	0	24.00	22.82	23.14	22.91
			1	12	24.00	22.94	23.25	22.93
			1	24	24.00	22.90	23.20	22.81
			12	0	22.00	21.63	21.67	21.52
			12	6	22.00	21.70	21.71	21.61
			12	11	22.00	21.62	21.62	21.58
			25	0	22.00	21.62	21.64	21.62
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration					
			RB Size	RB Offset		131997/1710.7	132322/1745	132597/1779.3
LTE Band 66	10MHz	QPSK	1	0	24.00	23.61	23.63	23.63
			1	24	24.00	23.69	23.73	23.67
			1	49	24.00	23.73	23.72	23.61
			25	0	23.00	22.69	22.64	22.66
			25	12	23.00	22.69	22.66	22.65
			25	24	23.00	22.70	22.61	22.69
			50	0	23.00	22.71	22.65	22.67
		16QAM	1	0	24.00	22.77	22.53	23.03
			1	24	24.00	22.89	22.58	23.09
			1	49	24.00	22.96	22.59	22.98
			25	0	22.00	21.70	21.65	21.68
			25	12	22.00	21.71	21.73	21.73
			25	24	22.00	21.69	21.69	21.71
			50	0	22.00	21.76	21.66	21.69
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1710.7	132322/1745	132597/1779.3
LTE Band 66	15MHz	QPSK	1	0	24.00	23.60	23.53	23.58
			1	37	24.00	23.72	23.63	23.62
			1	74	24.00	23.66	23.58	23.58
			36	0	23.00	22.69	22.66	22.66
			36	18	23.00	22.68	22.60	22.63
			36	37	23.00	22.75	22.62	22.64
			75	0	23.00	22.75	22.73	22.74
		16QAM	1	0	24.00	22.80	22.71	22.93
			1	37	24.00	22.90	22.81	23.09
			1	74	24.00	22.91	22.76	22.96
			36	0	22.00	21.74	21.59	21.69
			36	18	22.00	21.77	21.59	21.67
			36	37	22.00	21.84	21.61	21.68
			75	0	22.00	21.71	21.73	21.69
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1710.7	132322/1745	132597/1779.3
LTE	20MHz	QPSK	1	0	24.00	23.57	23.56	23.57

Band 66			1	49	24.00	23.74	23.72	23.60
			1	99	24.00	23.57	23.62	23.57
			50	0	23.00	22.70	22.79	22.66
			50	24	23.00	22.76	22.71	22.69
			50	49	23.00	22.93	22.73	22.67
			100	0	23.00	22.83	22.72	22.69
		16QAM	1	0	24.00	22.75	22.79	22.85
			1	49	24.00	23.07	23.01	22.97
			1	99	24.00	22.82	22.93	22.87
			50	0	22.00	21.71	21.84	21.72
			50	24	22.00	21.75	21.72	21.72
			50	49	22.00	21.93	21.78	21.71
			100	0	22.00	21.79	21.75	21.72

7.5. WLAN & Bluetooth Output Power

7.5.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11b	1	2412	14.00	12.60
	6	2437	14.00	12.49
	11	2462	14.00	13.14
802.11g	1	2412	14.00	12.37
	6	2437	14.00	12.29
	11	2462	14.00	13.08
802.11n HT20	1	2412	13.00	12.23
	6	2437	13.00	12.17
	11	2462	13.00	12.89
802.11n HT40	3	2422	13.00	12.20
	6	2437	13.00	12.23
	9	2452	13.00	12.89

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	11.00	10.20
	40	5200	11.00	9.64
	48	5240	11.00	10.97
802.11n HT20	36	5180	11.00	10.23
	40	5200	11.00	9.60
	48	5240	11.00	10.78
802.11n	38	5190	11.00	9.97

HT40	46	5230	11.00	10.32
802.11ac VHT20	36	5180	11.00	10.19
	40	5200	11.00	9.58
	48	5240	11.00	10.75
802.11ac VHT40	38	5190	11.00	10.04
	46	5230	11.00	10.28
802.11ac VHT80	42	5210	10.00	9.35

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	149	5745	10.00	9.44
	157	5785	10.00	9.94
	165	5825	10.00	9.85
802.11n HT20	149	5745	10.00	9.21
	157	5785	10.00	9.78
	165	5825	10.00	9.72
802.11n HT40	151	5755	11.00	9.61
	159	5795	11.00	10.12
802.11ac VHT20	149	5745	11.00	9.33
	157	5785	11.00	9.85
	165	5825	11.00	10.40
802.11ac VHT40	151	5755	11.00	9.56
	159	5795	11.00	10.03
802.11ac VHT80	155	5775	10.00	9.49

NOTE: Power measurement results of WLAN 5.8G.

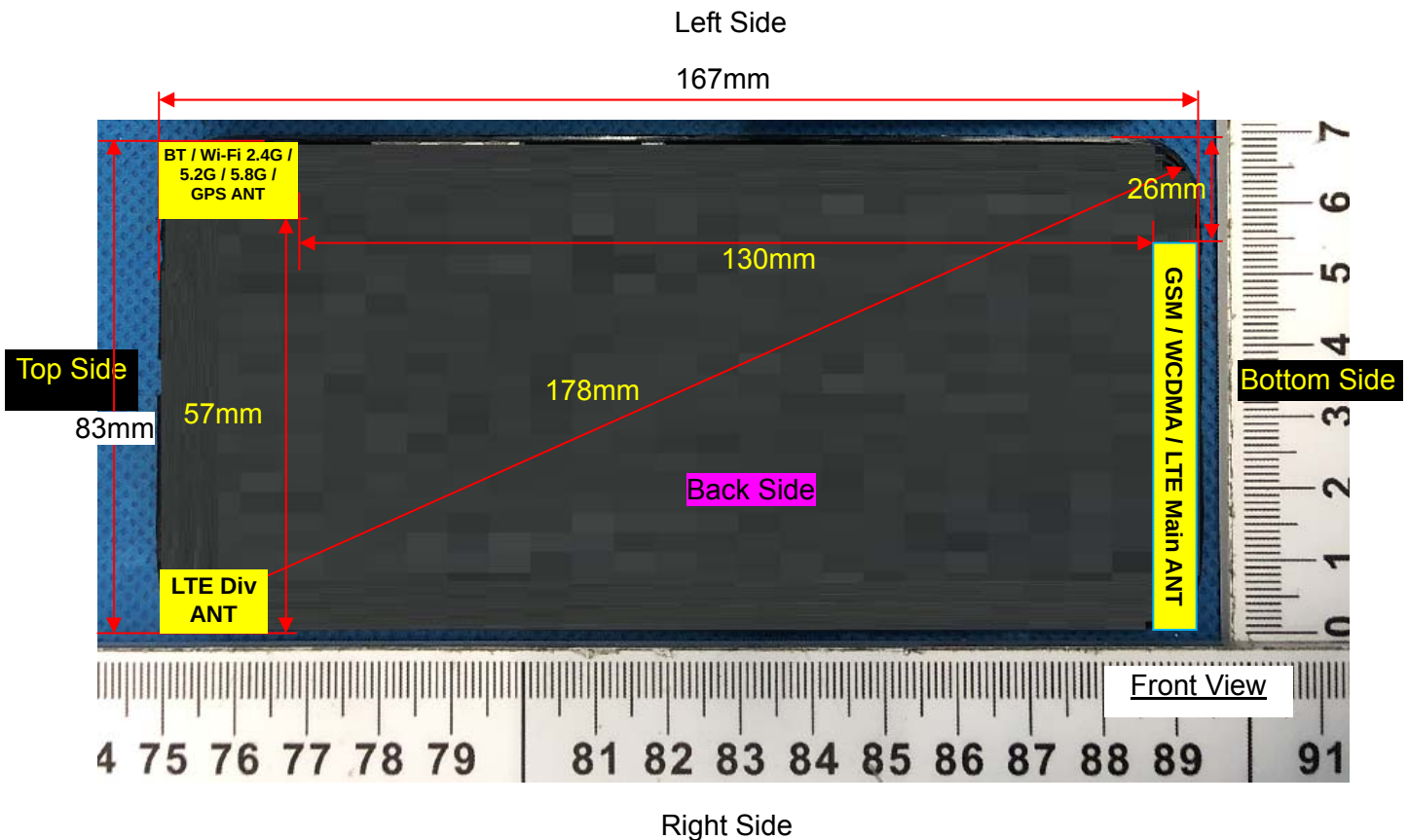
7.5.2. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
	0CH	6.000	5.212	4.732	4.783
	39CH	5.000	4.356	3.939	3.941
	78CH	5.000	4.898	4.490	4.471

BLE	Channel	Data Rates	Tune-up	Output Power (dBm)
	0CH	1M	1.000	-0.029
	19CH		1.000	-0.367
	39CH		1.000	0.199

	0CH	2M	1.000	-0.178
	19CH		1.000	-0.509
	39CH		1.000	0.107

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm
WLAN & Bluetooth	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
Positions for SAR tests						
Antennas	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN Main	Yes	Yes	NO	Yes	NO	Yes
WLAN & Bluetooth	Yes	Yes	Yes	NO	Yes	NO

9. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f_{\text{(GHz)}}$ 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	6.000	3.981	5	2.480	1.25	3.0	Yes

NOTE: Standalone SAR test exclusion for Bluetooth

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}/x}] \text{ W/kg}$ for test separation distances $\leq 50\text{mm}$, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	6.000	3.981	5	2.480	7.5	0.167
Bluetooth	Body	6.000	3.981	10	2.480	7.5	0.084
Bluetooth	Hotspot	6.000	3.981	10	2.480	7.5	0.084

NOTE: Estimated SAR calculation for Bluetooth

10. SAR Results

10.1. SAR measurement results

10.1.1. SAR measurement Result of GSM850

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	189/836.4	GPRS(GMSK 2TS)	0.123	0.094	1.78	32.16	33.00	0.149
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.068	0.054	0.64	32.16	33.00	0.083
Right Cheek	189/836.4	GPRS(GMSK 2TS)	0.105	0.078	-3.53	32.16	33.00	0.127
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 2TS)	0.056	0.041	-0.55	32.16	33.00	0.068

NOTE: Head SAR test results of GSM850.

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	189/836.4	GPRS(GMSK 2TS)	0.290	0.204	-3.42	32.16	33.00	0.352
Back Side	189/836.4	GPRS(GMSK 2TS)	0.375	0.260	-4.75	32.16	33.00	0.455

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	189/836.4	GPRS(GMSK 2TS)	0.290	0.204	-3.42	32.16	33.00	0.352
Back Side	189/836.4	GPRS(GMSK 2TS)	0.375	0.260	-4.75	32.16	33.00	0.455
Right Side	189/836.4	GPRS(GMSK 2TS)	0.174	0.121	-2.69	32.16	33.00	0.211
Bottom Side	189/836.4	GPRS(GMSK 2TS)	0.133	0.091	3.61	32.16	33.00	0.161

NOTE: Hotspot SAR test results of GSM850

10.1.2. SAR measurement Result of GSM1900

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	661/1880	GPRS(GMSK 2TS)	0.121	0.075	-4.87	29.47	30.00	0.137
Left Tilt 15 Degree	661/1880	GPRS(GMSK 2TS)	0.069	0.038	0.79	29.47	30.00	0.078
Right Cheek	661/1880	GPRS(GMSK 2TS)	0.108	0.065	-4.15	29.47	30.00	0.122
Right Tilt 15 Degree	661/1880	GPRS(GMSK 2TS)	0.054	0.029	-1.67	29.47	30.00	0.061

NOTE: Head SAR test results of GSM1900

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	661/1880	GPRS(GMSK 2TS)	0.369	0.213	-2.72	29.47	30.00	0.417
Back Side	661/1880	GPRS(GMSK 2TS)	0.485	0.276	-1.02	29.47	30.00	0.548

NOTE: Body-Worn SAR test results of GSM1900

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	661/1880	GPRS(GMSK 2TS)	0.369	0.213	-2.72	29.47	30.00	0.417
Back Side	661/1880	GPRS(GMSK 2TS)	0.485	0.276	-1.02	29.47	30.00	0.548
Right Side	661/1880	GPRS(GMSK 2TS)	0.218	0.124	-4.79	29.47	30.00	0.246
Bottom Side	661/1880	GPRS(GMSK 2TS)	0.184	0.107	-3.46	29.47	30.00	0.208

NOTE: Hotspot SAR test results of GSM1900

10.1.3. SAR measurement Result of WCDMA Band 2

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	9400/1880	RMC12.2K	0.137	0.085	-0.36	23.85	24.00	0.142
Left Tilt 15	9400/1880	RMC12.2K	0.076	0.051	-1.57	23.85	24.00	0.079

Degree								
Right Cheek	9400/1880	RMC12.2K	0.124	0.075	4.05	23.85	24.00	0.128
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.061	0.041	-2.56	23.85	24.00	0.063

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	9400/1880	RMC12.2K	0.381	0.220	0.83	23.85	24.00	0.394
Back Side	9400/1880	RMC12.2K	0.508	0.290	-0.47	23.85	24.00	0.526

NOTE: Body-Worn SAR test results of WCDMA Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	9400/1880	RMC12.2K	0.381	0.220	0.83	23.85	24.00	0.394
Back Side	9400/1880	RMC12.2K	0.508	0.290	-0.47	23.85	24.00	0.526
Right Side	9400/1880	RMC12.2K	0.232	0.127	-3.32	23.85	24.00	0.240
Bottom Side	9400/1880	RMC12.2K	0.191	0.112	-3.68	23.85	24.00	0.198

NOTE: Hotspot SAR test results of WCDMA Band 2

10.1.4. SAR measurement Result of WCDMA Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	1413/1732.6	RMC12.2K	0.186	0.119	0.03	23.44	24.00	0.212
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.105	0.065	3.60	23.44	24.00	0.119
Right Cheek	1413/1732.6	RMC12.2K	0.163	0.106	-1.77	23.44	24.00	0.185
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.074	0.048	-3.75	23.44	24.00	0.084

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	1413/1732.6	RMC12.2K	0.524	0.311	-2.90	23.44	24.00	0.596
Back Side	1413/1732.6	RMC12.2K	0.694	0.414	-0.38	23.44	24.00	0.790

NOTE: Body-Worn SAR test results of WCDMA Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	1413/1732.6	RMC12.2K	0.524	0.311	-2.90	23.44	24.00	0.596
Back Side	1413/1732.6	RMC12.2K	0.694	0.414	-0.38	23.44	24.00	0.790
Right Side	1413/1732.6	RMC12.2K	0.331	0.202	-1.04	23.44	24.00	0.377
Bottom Side	1413/1732.6	RMC12.2K	0.277	0.169	-1.97	23.44	24.00	0.315

NOTE: Hotspot SAR test results of WCDMA Band 4

10.1.5. SAR measurement Result of WCDMA Band 5

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	4182/836.4	RMC12.2K	0.262	0.199	2.61	24.08	25.00	0.324
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.150	0.112	2.78	24.08	25.00	0.185
Right Cheek	4182/836.4	RMC12.2K	0.225	0.169	1.55	24.08	25.00	0.278
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.121	0.090	-4.07	24.08	25.00	0.150

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	4182/836.4	RMC12.2K	0.316	0.241	-2.49	24.08	25.00	0.391
Back Side	4182/836.4	RMC12.2K	0.373	0.279	-0.56	24.08	25.00	0.461

NOTE: Body-Worn SAR test results of WCDMA Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	4182/836.4	RMC12.2K	0.316	0.241	-2.49	24.08	25.00	0.391
Back Side	4182/836.4	RMC12.2K	0.373	0.279	-0.56	24.08	25.00	0.461
Right Side	4182/836.4	RMC12.2K	0.164	0.121	0.52	24.08	25.00	0.203
Bottom Side	4182/836.4	RMC12.2K	0.138	0.099	3.86	24.08	25.00	0.171

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. SAR measurement Result of CDMA Band BC0

Test Position	Test	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled
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of Head	channel /Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)
			1g	10g				
Left Cheek	384/836.52	1xRTT(RC3, SO55)	0.246	0.186	2.10	24.94	25.00	0.249
Left Tilt 15 Degree	384/836.52	1xRTT(RC3, SO55)	0.125	0.096	-3.04	24.94	25.00	0.127
Right Cheek	384/836.52	1xRTT(RC3, SO55)	0.217	0.161	-4.73	24.94	25.00	0.220
Right Tilt 15 Degree	384/836.52	1xRTT(RC3, SO55)	0.106	0.084	3.84	24.94	25.00	0.107
Left Cheek	384/836.52	1xEV-Do Rel.0	0.201	0.176	4.34	24.65	25.00	0.218
Left Tilt 15 Degree	384/836.52	1xEV-Do Rel.0	0.109	0.091	1.54	24.65	25.00	0.118
Right Cheek	384/836.52	1xEV-Do Rel.0	0.195	0.170	-1.99	24.65	25.00	0.211
Right Tilt 15 Degree	384/836.52	1xEV-Do Rel.0	0.092	0.067	1.05	24.65	25.00	0.100

NOTE: Head SAR test results of CDMA Band BC0

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	384/836.52	1xRTT(RC3, SO32(+F-SCH)	0.316	0.241	-2.49	24.08	25.00	0.391
Back Side	384/836.52	1xRTT(RC3, SO32(+F-SCH)	0.373	0.279	-0.56	24.08	25.00	0.461

NOTE: Body-Worn SAR test results of CDMA Band BC0

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	384/836.52	1xRTT(RC3, SO32(+F-SCH)	0.405	0.241	2.51	24.75	25.00	0.429
Back Side	384/836.52	1xRTT(RC3, SO32(+F-SCH)	0.481	0.283	-0.63	24.75	25.00	0.510
Right Side	384/836.52	1xRTT(RC3, SO32(+F-SCH)	0.219	0.130	0.05	24.75	25.00	0.232
Bottom Side	384/836.52	1xRTT(RC3,	0.179	0.104	-4.94	24.75	25.00	0.190

		SO32(+F-SCH)						
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NOTE: Hotspot SAR test results of CDMA Band BC0

10.1.7. SAR measurement Result of CDMA Band BC1

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	600/1880	1xRTT(RC3, SO55)	0.115	0.075	4.28	24.13	25.00	0.141
Left Tilt 15 Degree	600/1880	1xRTT(RC3, SO55)	0.063	0.045	0.08	24.13	25.00	0.077
Right Cheek	600/1880	1xRTT(RC3, SO55)	0.108	0.072	-3.11	24.13	25.00	0.132
Right Tilt 15 Degree	600/1880	1xRTT(RC3, SO55)	0.056	0.037	0.25	24.13	25.00	0.068
Left Cheek	600/1880	1xEV-Do Rel.0	0.105	0.071	-2.90	24.10	25.00	0.129
Left Tilt 15 Degree	600/1880	1xEV-Do Rel.0	0.059	0.034	2.67	24.10	25.00	0.073
Right Cheek	600/1880	1xEV-Do Rel.0	0.107	0.072	3.76	24.10	25.00	0.132
Right Tilt 15 Degree	600/1880	1xEV-Do Rel.0	0.057	0.032	-3.82	24.10	25.00	0.070

NOTE: Head SAR test results of CDMA Band BC1

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	600/1880	1xRTT(RC3, SO32(+F-SCH)	0.416	0.206	-1.93	24.11	25.00	0.511
Back Side	600/1880	1xRTT(RC3, SO32(+F-SCH)	0.493	0.244	0.01	24.11	25.00	0.605

NOTE: Body-Worn SAR test results of CDMA Band BC1

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	600/1880	1xRTT(RC3,	0.416	0.206	-1.93	24.11	25.00	0.511

		SO32(+F-SCH)						
Back Side	600/1880	1xRTT(RC3, SO32(+F-SCH)	0.493	0.244	0.01	24.11	25.00	0.605
Right Side	600/1880	1xRTT(RC3, SO32(+F-SCH)	0.216	0.105	3.61	24.11	25.00	0.265
Bottom Side	600/1880	1xRTT(RC3, SO32(+F-SCH)	0.190	0.090	0.01	24.11	25.00	0.233

NOTE: Hotspot SAR test results of CDMA Band BC1

10.1.8. SAR measurement Result of LTE Band 2

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Left Cheek	18900/1880	20M QPSK(1,49)	0.120	0.077	-1.98	23.63	24.00	0.131
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.072	0.044	0.46	23.63	24.00	0.078
Right Cheek	18900/1880	20M QPSK(1,49)	0.112	0.071	2.51	23.63	24.00	0.122
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.056	0.039	2.44	23.63	24.00	0.061
50%RB								
Left Cheek	18900/1880	1.4M QPSK(3,1)	0.106	0.072	2.65	23.38	24.00	0.122
Left Tilt 15 Degree	18900/1880	1.4M QPSK(3,1)	0.064	0.038	-1.38	23.38	24.00	0.074
Right Cheek	18900/1880	1.4M QPSK(3,1)	0.104	0.067	1.30	23.38	24.00	0.120
Right Tilt 15 Degree	18900/1880	1.4M QPSK(3,1)	0.051	0.035	2.88	23.38	24.00	0.059

NOTE: Head SAR test results of LTE Band 2

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	18900/1880	20M QPSK(1,49)	0.356	0.202	-0.38	23.63	24.00	0.388
Back Side	18900/1880	20M QPSK(1,49)	0.474	0.272	-0.87	23.63	24.00	0.516

50%RB

Front Side	18900/1880	1.4M QPSK(3,1)	0.308	0.186	2.81	23.38	24.00	0.355
Back Side	18900/1880	1.4M QPSK(3,1)	0.441	0.252	3.17	23.38	24.00	0.509

NOTE: Body-Worn SAR test results of LTE Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				

1RB

Front Side	18900/1880	20M QPSK(1,49)	0.356	0.202	-0.38	23.63	24.00	0.388
Back Side	18900/1880	20M QPSK(1,49)	0.474	0.272	-0.87	23.63	24.00	0.516
Right Side	18900/1880	20M QPSK(1,49)	0.214	0.124	3.27	23.63	24.00	0.233
Bottom Side	18900/1880	20M QPSK(1,49)	0.181	0.100	2.80	23.63	24.00	0.197

50%RB

Front Side	18900/1880	1.4M QPSK(3,1)	0.308	0.186	2.81	23.38	24.00	0.355
Back Side	18900/1880	1.4M QPSK(3,1)	0.441	0.252	3.17	23.38	24.00	0.509
Right Side	18900/1880	1.4M QPSK(3,1)	0.184	0.113	3.87	23.38	24.00	0.212
Bottom Side	18900/1880	1.4M QPSK(3,1)	0.164	0.086	3.29	23.38	24.00	0.189

NOTE: Hotspot SAR test results of LTE Band 2

10.1.9. SAR measurement Result of LTE Band 4

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				

1RB

Left Cheek	20175/1732.5	20M QPSK(1,49)	0.184	0.122	1.76	23.52	24.00	0.206
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.098	0.066	-0.05	23.52	24.00	0.109
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.175	0.116	4.83	23.52	24.00	0.195
Right	20175/1732.5	20M QPSK(1,49)	0.084	0.057	4.05	23.52	24.00	0.094

Tilt 15 Degree								
50%RB								
Left Cheek	20175/1732.5	1.4M QPSK(3,1)	0.163	0.107	-3.47	23.34	24.00	0.190
Left Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,1)	0.093	0.059	-2.67	23.34	24.00	0.108
Right Cheek	20175/1732.5	1.4M QPSK(3,1)	0.160	0.108	4.03	23.34	24.00	0.186
Right Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,1)	0.073	0.048	-2.85	23.34	24.00	0.085

NOTE: Head SAR test results of LTE Band 4

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	20175/1732.5	20M QPSK(1,49)	0.560	0.346	0.38	23.52	24.00	0.625
Back Side	20175/1732.5	20M QPSK(1,49)	0.672	0.416	-0.28	23.52	24.00	0.751
50%RB								
Front Side	20175/1732.5	1.4M QPSK(3,1)	0.516	0.309	3.20	23.34	24.00	0.601
Back Side	20175/1732.5	1.4M QPSK(3,1)	0.586	0.391	3.67	23.34	24.00	0.682

NOTE: Body-Worn SAR test results of LTE Band 4

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conduc ted power (dBm)	Tune-u p power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	20175/1732.5	20M QPSK(1,49)	0.560	0.346	0.38	23.52	24.00	0.625
Back Side	20175/1732.5	20M QPSK(1,49)	0.672	0.416	-0.28	23.52	24.00	0.751
Right Side	20175/1732.5	20M	0.311	0.194	-2.97	23.52	24.00	0.347

	5	QPSK(1,49)						
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.255	0.154	-3.31	23.52	24.00	0.285
50%RB								
Front Side	20175/1732.5	1.4M QPSK(3,1)	0.516	0.309	3.20	23.34	24.00	0.601
Back Side	20175/1732.5	1.4M QPSK(3,1)	0.586	0.391	3.67	23.34	24.00	0.682
Right Side	20175/1732.5	1.4M QPSK(3,1)	0.280	0.180	2.83	23.34	24.00	0.326
Bottom Side	20175/1732.5	1.4M QPSK(3,1)	0.236	0.136	-2.87	23.34	24.00	0.275

NOTE: Hotspot SAR test results of LTE Band 4

10.1.10. SAR measurement Result of LTE Band 5

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Left Cheek	20525/836.5	10M QPSK(1,0)	0.272	0.173	0.77	23.82	24.00	0.284
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.150	0.097	2.50	23.82	24.00	0.156
Right Cheek	20525/836.5	10M QPSK(1,0)	0.236	0.148	-1.08	23.82	24.00	0.246
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,0)	0.127	0.080	-2.29	23.82	24.00	0.132
50%RB								
Left Cheek	20525/836.5	1.4M QPSK(3,1)	0.238	0.149	0.46	23.68	24.00	0.256
Left Tilt 15 Degree	20525/836.5	1.4M QPSK(3,1)	0.132	0.087	3.17	23.68	24.00	0.142
Right Cheek	20525/836.5	1.4M QPSK(3,1)	0.223	0.135	0.43	23.68	24.00	0.240
Right Tilt 15	20525/836.5	1.4M QPSK(3,1)	0.114	0.070	-2.82	23.68	24.00	0.123

Degree								
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NOTE: Head SAR test results of LTE Band 5

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	20525/836.5	10M QPSK(1,0)	0.260	0.188	1.07	23.82	24.00	0.271
Back Side	20525/836.5	10M QPSK(1,0)	0.345	0.256	1.18	23.82	24.00	0.360
50%RB								
Front Side	20525/836.5	1.4M QPSK(3,1)	0.232	0.173	3.57	23.68	24.00	0.250
Back Side	20525/836.5	1.4M QPSK(3,1)	0.322	0.227	-2.66	23.68	24.00	0.347

NOTE: Body-Worn SAR test results of LTE Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	20525/836.5	10M QPSK(1,0)	0.260	0.188	1.07	23.82	24.00	0.271
Back Side	20525/836.5	10M QPSK(1,0)	0.345	0.256	1.18	23.82	24.00	0.360
Right Side	20525/836.5	10M QPSK(1,0)	0.154	0.119	-1.38	23.82	24.00	0.161
Bottom Side	20525/836.5	10M QPSK(1,0)	0.137	0.104	1.70	23.82	24.00	0.143
50%RB								
Front Side	20525/836.5	1.4M QPSK(3,1)	0.232	0.173	3.57	23.68	24.00	0.250
Back Side	20525/836.5	1.4M QPSK(3,1)	0.322	0.227	-2.66	23.68	24.00	0.347
Right Side	20525/836.5	1.4M QPSK(3,1)	0.138	0.104	-4.94	23.68	24.00	0.149
Bottom Side	20525/836.5	1.4M QPSK(3,1)	0.117	0.089	0.27	23.68	24.00	0.126

NOTE: Hotspot SAR test results of LTE Band 5

10.1.11. SAR measurement Result of LTE Band 7

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Left Cheek	21100/2535	20M QPSK(1,49)	0.096	0.061	-2.71	23.86	24.00	0.099
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.055	0.037	1.59	23.86	24.00	0.057
Right Cheek	21100/2535	20M QPSK(1,49)	0.085	0.054	-3.08	23.86	24.00	0.088
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.044	0.027	3.21	23.86	24.00	0.045
50%RB								
Left Cheek	21100/2535	20M QPSK(50,49)	0.084	0.056	2.11	22.75	23.00	0.089
Left Tilt 15 Degree	21100/2535	20M QPSK(50,49)	0.052	0.035	-0.21	22.75	23.00	0.055
Right Cheek	21100/2535	20M QPSK(50,49)	0.076	0.048	-0.57	22.75	23.00	0.081
Right Tilt 15 Degree	21100/2535	20M QPSK(50,49)	0.042	0.024	-1.75	22.75	23.00	0.044

NOTE: Head SAR test results of LTE Band 7

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	21100/2535	20M QPSK(1,49)	0.603	0.309	-3.22	23.86	24.00	0.623
Back Side	21100/2535	20M QPSK(1,49)	0.799	0.403	0.01	23.86	24.00	0.825
Back Side	20850/2510	20M QPSK(1,49)	0.758	0.387	0.05	23.94	24.00	0.769
Back Side	21350/2560	20M QPSK(1,49)	0.764	0.394	0.13	23.88	24.00	0.785
50%RB								

Front Side	21100/2535	20M QPSK(50,49)	0.537	0.266	-0.26	22.75	23.00	0.569
Back Side	21100/2535	20M QPSK(50,49)	0.752	0.377	-2.32	22.75	23.00	0.797
100%RB								
Back Side	21100/2535	20M QPSK(100,0)	0.690	0.353	-4.90	22.82	23.00	0.719

NOTE: Body-Worn SAR test results of LTE Band 7

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conduc ted power (dBm)	Tune-u p power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	21100/2535	20M QPSK(1,49)	0.603	0.309	-3.22	23.86	24.00	0.623
Back Side	21100/2535	20M QPSK(1,49)	0.799	0.403	0.01	23.86	24.00	0.825
Right Side	21100/2535	20M QPSK(1,49)	0.369	0.187	-0.58	23.86	24.00	0.381
Bottom Side	21100/2535	20M QPSK(1,49)	0.289	0.144	1.75	23.86	24.00	0.298
Back Side	20850/2510	20M QPSK(1,49)	0.758	0.387	0.05	23.94	24.00	0.769
Back Side	21350/2560	20M QPSK(1,49)	0.764	0.394	0.13	23.88	24.00	0.785
50%RB								
Front Side	21100/2535	20M QPSK(50,49)	0.537	0.266	-0.26	22.75	23.00	0.569
Back Side	21100/2535	20M QPSK(50,49)	0.752	0.377	-2.32	22.75	23.00	0.797
Right Side	21100/2535	20M QPSK(50,49)	0.348	0.175	-1.25	22.75	23.00	0.369
Bottom Side	21100/2535	20M QPSK(50,49)	0.250	0.135	4.71	22.75	23.00	0.265
100%RB								
Back Side	21100/2535	20M QPSK(100,0)	0.690	0.353	-4.90	22.82	23.00	0.719

NOTE: Hotspot SAR test results of LTE Band 7

10.1.12. SAR measurement Result of LTE Band 17

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Left Cheek	23790/710	10M QPSK(1,24)	0.160	0.109	3.15	24.12	25.00	0.196
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.087	0.059	-2.74	24.12	25.00	0.107
Right Cheek	23790/710	10M QPSK(1,24)	0.137	0.094	3.56	24.12	25.00	0.168
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.063	0.047	0.63	24.12	25.00	0.077
50%RB								
Left Cheek	23790/710	10M QPSK(25,12)	0.145	0.095	-2.97	23.20	24.00	0.174
Left Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.078	0.054	-4.32	23.20	24.00	0.094
Right Cheek	23790/710	10M QPSK(25,12)	0.127	0.087	4.89	23.20	24.00	0.153
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.054	0.041	2.90	23.20	24.00	0.065

NOTE: Head SAR test results of LTE Band 17

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	23790/710	10M QPSK(1,24)	0.221	0.180	2.18	24.12	25.00	0.271
Back Side	23790/710	10M QPSK(1,24)	0.281	0.230	-0.77	24.12	25.00	0.344
50%RB								
Front Side	23790/710	10M QPSK(25,12)	0.191	0.169	-2.00	23.20	24.00	0.230
Back Side	23790/710	10M	0.258	0.214	-3.89	23.20	24.00	0.310

QPSK(25,12)

NOTE: Body-Worn SAR test results of LTE Band 17

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	23790/710	10M QPSK(1,24)	0.221	0.180	2.18	24.12	25.00	0.271
Back Side	23790/710	10M QPSK(1,24)	0.281	0.230	-0.77	24.12	25.00	0.344
Right Side	23790/710	10M QPSK(1,24)	0.132	0.105	-2.28	24.12	25.00	0.162
Bottom Side	23790/710	10M QPSK(1,24)	0.105	0.084	0.42	24.12	25.00	0.129
50%RB								
Front Side	23790/710	10M QPSK(25,12)	0.191	0.169	-2.00	23.20	24.00	0.230
Back Side	23790/710	10M QPSK(25,12)	0.258	0.214	-3.89	23.20	24.00	0.310
Right Side	23790/710	10M QPSK(25,12)	0.122	0.095	4.69	23.20	24.00	0.147
Bottom Side	23790/710	10M QPSK(25,12)	0.098	0.072	-1.52	23.20	24.00	0.118

NOTE: Hotspot SAR test results of LTE Band 17

10.1.13. SAR measurement Result of LTE Band 66

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Left Cheek	132322/1745	20M QPSK(1,49)	0.213	0.136	2.25	23.72	24.00	0.227
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.117	0.079	-2.45	23.72	24.00	0.125

Right Cheek	132322/1745	20M QPSK(1,49)	0.181	0.116	-3.57	23.72	24.00	0.193
Right Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.091	0.060	-4.95	23.72	24.00	0.097
50%RB								
Left Cheek	132322/1745	1.4M QPSK(3,1)	0.197	0.117	2.61	23.62	24.00	0.215
Left Tilt 15 Degree	132322/1745	1.4M QPSK(3,1)	0.103	0.069	0.81	23.62	24.00	0.112
Right Cheek	132322/1745	1.4M QPSK(3,1)	0.161	0.108	-4.65	23.62	24.00	0.176
Right Tilt 15 Degree	132322/1745	1.4M QPSK(3,1)	0.086	0.056	-2.46	23.62	24.00	0.094

NOTE: Head SAR test results of LTE Band 66

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	132322/1745	20M QPSK(1,49)	0.563	0.351	-4.03	23.72	24.00	0.600
Back Side	132322/1745	20M QPSK(1,49)	0.699	0.431	-0.33	23.72	24.00	0.746
50%RB								
Front Side	132322/1745	1.4M QPSK(3,1)	0.516	0.306	2.62	23.62	24.00	0.563
Back Side	132322/1745	1.4M QPSK(3,1)	0.637	0.380	1.99	23.62	24.00	0.695

NOTE: Body-Worn SAR test results of LTE Band 66

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
1RB								
Front Side	132322/1745	20M QPSK(1,49)	0.563	0.351	-4.03	23.72	24.00	0.600
Back Side	132322/1745	20M QPSK(1,49)	0.699	0.431	-0.33	23.72	24.00	0.746

Right Side	132322/1745	20M QPSK(1,49)	0.305	0.192	2.56	23.72	24.00	0.325
Bottom Side	132322/1745	20M QPSK(1,49)	0.254	0.154	2.55	23.72	24.00	0.271
50%RB								
Front Side	132322/1745	1.4M QPSK(3,1)	0.516	0.306	2.62	23.62	24.00	0.563
Back Side	132322/1745	1.4M QPSK(3,1)	0.637	0.380	1.99	23.62	24.00	0.695
Right Side	132322/1745	1.4M QPSK(3,1)	0.260	0.174	3.46	23.62	24.00	0.284
Bottom Side	132322/1745	1.4M QPSK(3,1)	0.218	0.132	-0.85	23.62	24.00	0.238

NOTE: Hotspot SAR test results of LTE Band 66

10.1.14. SAR measurement Result of WLAN 2.4G

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	6/2437	802.11 b	0.109	0.063	-2.10	12.49	14.00	0.154
Left Tilt 15 Degree	6/2437	802.11 b	0.056	0.036	2.69	12.49	14.00	0.079
Right Cheek	6/2437	802.11 b	0.093	0.051	4.44	12.49	14.00	0.132
Right Tilt 15 Degree	6/2437	802.11 b	0.050	0.029	0.74	12.49	14.00	0.071

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	6/2437	802.11 b	0.218	0.121	-3.05	12.49	14.00	0.309
Back Side	6/2437	802.11 b	0.340	0.186	-1.62	12.49	14.00	0.481

NOTE: Body-Worn SAR test results of WLAN 2.4G

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				

Front Side	6/2437	802.11 b	0.218	0.121	-3.05	12.49	14.00	0.309
Back Side	6/2437	802.11 b	0.340	0.186	-1.62	12.49	14.00	0.481
Left Side	6/2437	802.11 b	0.079	0.042	-0.52	12.49	14.00	0.112
Top Side	6/2437	802.11 b	0.104	0.064	4.30	12.49	14.00	0.147

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.15. SAR measurement Result of WLAN 5.2G

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Left Cheek	40/5200	802.11a	0.139	0.080	-1.64	9.64	11.00	0.190
Left Tilt 15 Degree	40/5200	802.11a	0.075	0.042	-3.37	9.64	11.00	0.103
Right Cheek	40/5200	802.11a	0.120	0.072	0.59	9.64	11.00	0.164
Right Tilt 15 Degree	40/5200	802.11a	0.057	0.029	2.36	9.64	11.00	0.078

NOTE: Head SAR test results of WLAN 5.2G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	40/5200	802.11a	0.231	0.110	1.41	9.64	11.00	0.316
Back Side	40/5200	802.11a	0.377	0.179	-1.80	9.64	11.00	0.516

NOTE: Body-Worn SAR test results of WLAN 5.2G

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	40/5200	802.11a	0.231	0.110	1.41	9.64	11.00	0.316
Back Side	40/5200	802.11a	0.377	0.179	-1.80	9.64	11.00	0.516
Left Side	40/5200	802.11a	0.079	0.044	4.22	9.64	11.00	0.108
Top Side	40/5200	802.11a	0.121	0.054	-0.82	9.64	11.00	0.165

NOTE: Hotspot SAR test results of WLAN 5.2G

10.1.16. SAR measurement Result of WLAN 5.8G

Test Position of Head	Test channel	Test Mode	SAR Value (W/kg)	Power Drift	Conducted power	Tune-up power	Scaled SAR
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	/Freq.		1g	10g	(±5%)	(dBm)	(dBm)	1g (W/Kg)
Left Cheek	157/5785	802.11ac (VHT20)	0.436	0.201	0.22	9.85	11.00	0.568
Left Tilt 15 Degree	157/5785	802.11ac (VHT20)	0.257	0.118	-4.23	9.85	11.00	0.335
Right Cheek	157/5785	802.11ac (VHT20)	0.390	0.183	-4.40	9.85	11.00	0.508
Right Tilt 15 Degree	157/5785	802.11ac (VHT20)	0.176	0.082	2.99	9.85	11.00	0.229

NOTE: Head SAR test results of WLAN 5.8G

Test Position of Body-Worn with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	157/5785	802.11ac (VHT20)	0.444	0.224	1.02	9.85	11.00	0.579
Back Side	157/5785	802.11ac (VHT20)	0.471	0.360	0.88	9.85	11.00	0.614

NOTE: Body-Worn SAR test results of WLAN 5.8G

Test Position of Hotspot with 10mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)
			1g	10g				
Front Side	157/5785	802.11ac (VHT20)	0.444	0.224	1.02	9.85	11.00	0.579
Back Side	157/5785	802.11ac (VHT20)	0.471	0.360	0.88	9.85	11.00	0.614
Left Side	157/5785	802.11ac (VHT20)	0.181	0.078	3.22	9.85	11.00	0.236
Top Side	157/5785	802.11ac (VHT20)	0.280	0.124	1.16	9.85	11.00	0.365

NOTE: Hotspot SAR test results of WLAN 5.2G

10.2. SAR Summation Scenario

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

- 1) Scalar SAR summation $< 1.6\text{W/kg}$.
- 2) $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the

coordinates of the extrapolated peak SAR locations in the zoom scan. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 2.4G			
Head	Left Cheek	0.149	0.154	0.303	N/A	N/A
	Left Tilt 15 Degree	0.083	0.079	0.162	N/A	N/A
	Right Cheek	0.127	0.132	0.259	N/A	N/A
	Right Tilt 15 Degree	0.068	0.071	0.139	N/A	N/A
Body-Worn	Front Side	0.352	0.309	0.661	N/A	N/A
	Back Side	0.455	0.481	0.936	N/A	N/A
Hotspot	Front Side	0.352	0.309	0.661	N/A	N/A
	Back Side	0.455	0.481	0.936	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.211	N/A	0.211	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.161	N/A	0.161	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 2.4G			
Head	Left Cheek	0.137	0.154	0.291	N/A	N/A
	Left Tilt 15 Degree	0.078	0.079	0.157	N/A	N/A
	Right Cheek	0.122	0.132	0.254	N/A	N/A
	Right Tilt 15 Degree	0.061	0.071	0.132	N/A	N/A
Body-Worn	Front Side	0.417	0.309	0.726	N/A	N/A
	Back Side	0.548	0.481	1.029	N/A	N/A
Hotspot	Front Side	0.417	0.309	0.726	N/A	N/A
	Back Side	0.548	0.481	1.029	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.246	N/A	0.246	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.208	N/A	0.208	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 2.4G			
Head	Left Cheek	0.142	0.154	0.296	N/A	N/A
	Left Tilt 15	0.079	0.079	0.158	N/A	N/A

	Degree					
	Right Cheek	0.128	0.132	0.260	N/A	N/A
	Right Tilt 15 Degree	0.063	0.071	0.134	N/A	N/A
Body-Worn	Front Side	0.394	0.309	0.703	N/A	N/A
	Back Side	0.526	0.481	1.007	N/A	N/A
Hotspot	Front Side	0.394	0.309	0.703	N/A	N/A
	Back Side	0.526	0.481	1.007	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.240	N/A	0.240	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.198	N/A	0.198	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 2.4G			
Head	Left Cheek	0.212	0.154	0.366	N/A	N/A
	Left Tilt 15 Degree	0.119	0.079	0.198	N/A	N/A
	Right Cheek	0.185	0.132	0.317	N/A	N/A
	Right Tilt 15 Degree	0.084	0.071	0.155	N/A	N/A
Body-Worn	Front Side	0.596	0.309	0.905	N/A	N/A
	Back Side	0.790	0.481	1.271	N/A	N/A
Hotspot	Front Side	0.596	0.309	0.905	N/A	N/A
	Back Side	0.790	0.481	1.271	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.377	N/A	0.377	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 2.4G			
Head	Left Cheek	0.324	0.154	0.478	N/A	N/A
	Left Tilt 15 Degree	0.185	0.079	0.264	N/A	N/A
	Right Cheek	0.278	0.132	0.410	N/A	N/A
	Right Tilt 15 Degree	0.150	0.071	0.221	N/A	N/A
Body-Worn	Front Side	0.391	0.309	0.700	N/A	N/A
	Back Side	0.461	0.481	0.942	N/A	N/A

Hotspot	Front Side	0.391	0.309	0.700	N/A	N/A
	Back Side	0.461	0.481	0.942	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.203	N/A	0.203	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.171	N/A	0.171	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC0	WLAN 2.4G			
Head	Left Cheek	0.249	0.154	0.403	N/A	N/A
	Left Tilt 15 Degree	0.127	0.079	0.206	N/A	N/A
	Right Cheek	0.220	0.132	0.352	N/A	N/A
	Right Tilt 15 Degree	0.107	0.071	0.178	N/A	N/A
Body-Worn	Front Side	0.429	0.309	0.738	N/A	N/A
	Back Side	0.510	0.481	0.991	N/A	N/A
Hotspot	Front Side	0.429	0.309	0.738	N/A	N/A
	Back Side	0.510	0.481	0.991	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.232	N/A	0.232	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.190	N/A	0.190	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC0 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC1	WLAN 2.4G			
Head	Left Cheek	0.141	0.154	0.295	N/A	N/A
	Left Tilt 15 Degree	0.077	0.079	0.156	N/A	N/A
	Right Cheek	0.132	0.132	0.264	N/A	N/A
	Right Tilt 15 Degree	0.070	0.071	0.141	N/A	N/A
Body-Worn	Front Side	0.511	0.309	0.820	N/A	N/A
	Back Side	0.605	0.481	1.086	N/A	N/A
Hotspot	Front Side	0.511	0.309	0.820	N/A	N/A
	Back Side	0.605	0.481	1.086	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.265	N/A	0.265	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A

	Bottom Side	0.233	N/A	0.233	N/A	N/A
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NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC1 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 2.4G			
Head	Left Cheek	0.131	0.154	0.285	N/A	N/A
	Left Tilt 15 Degree	0.078	0.079	0.157	N/A	N/A
	Right Cheek	0.122	0.132	0.254	N/A	N/A
	Right Tilt 15 Degree	0.061	0.071	0.132	N/A	N/A
Body-Worn	Front Side	0.388	0.309	0.697	N/A	N/A
	Back Side	0.516	0.481	0.997	N/A	N/A
Hotspot	Front Side	0.388	0.309	0.697	N/A	N/A
	Back Side	0.516	0.481	0.997	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.233	N/A	0.233	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.197	N/A	0.197	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 2.4G			
Head	Left Cheek	0.206	0.154	0.360	N/A	N/A
	Left Tilt 15 Degree	0.109	0.079	0.188	N/A	N/A
	Right Cheek	0.195	0.132	0.327	N/A	N/A
	Right Tilt 15 Degree	0.094	0.071	0.165	N/A	N/A
Body-Worn	Front Side	0.625	0.309	0.934	N/A	N/A
	Back Side	0.751	0.481	1.232	N/A	N/A
Hotspot	Front Side	0.625	0.309	0.934	N/A	N/A
	Back Side	0.751	0.481	1.232	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.347	N/A	0.347	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.285	N/A	0.285	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 2.4G			
Head	Left Cheek	0.284	0.154	0.438	N/A	N/A
	Left Tilt 15 Degree	0.156	0.079	0.235	N/A	N/A

	Right Cheek	0.246	0.132	0.378	N/A	N/A
	Right Tilt 15 Degree	0.132	0.071	0.203	N/A	N/A
Body-Worn	Front Side	0.271	0.309	0.580	N/A	N/A
	Back Side	0.360	0.481	0.841	N/A	N/A
Hotspot	Front Side	0.271	0.309	0.580	N/A	N/A
	Back Side	0.360	0.481	0.841	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.161	N/A	0.161	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.143	N/A	0.143	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 2.4G			
Head	Left Cheek	0.099	0.154	0.253	N/A	N/A
	Left Tilt 15 Degree	0.057	0.079	0.136	N/A	N/A
	Right Cheek	0.088	0.132	0.220	N/A	N/A
	Right Tilt 15 Degree	0.045	0.071	0.116	N/A	N/A
Body-Worn	Front Side	0.623	0.309	0.932	N/A	N/A
	Back Side	0.825	0.481	1.306	N/A	N/A
Hotspot	Front Side	0.623	0.309	0.932	N/A	N/A
	Back Side	0.825	0.481	1.306	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.381	N/A	0.381	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.298	N/A	0.298	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 2.4G			
Head	Left Cheek	0.196	0.154	0.350	N/A	N/A
	Left Tilt 15 Degree	0.107	0.079	0.186	N/A	N/A
	Right Cheek	0.168	0.132	0.300	N/A	N/A
	Right Tilt 15 Degree	0.077	0.071	0.148	N/A	N/A
Body-Worn	Front Side	0.271	0.309	0.580	N/A	N/A
	Back Side	0.344	0.481	0.825	N/A	N/A
Hotspot	Front Side	0.271	0.309	0.580	N/A	N/A
	Back Side	0.344	0.481	0.825	N/A	N/A

	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.162	N/A	0.162	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.129	N/A	0.129	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 66	WLAN 2.4G			
Head	Left Cheek	0.227	0.154	0.381	N/A	N/A
	Left Tilt 15 Degree	0.125	0.079	0.204	N/A	N/A
	Right Cheek	0.193	0.132	0.325	N/A	N/A
	Right Tilt 15 Degree	0.097	0.071	0.168	N/A	N/A
Body-Worn	Front Side	0.600	0.309	0.909	N/A	N/A
	Back Side	0.746	0.481	1.227	N/A	N/A
Hotspot	Front Side	0.600	0.309	0.909	N/A	N/A
	Back Side	0.746	0.481	1.227	N/A	N/A
	Left Side	N/A	0.112	0.112	N/A	N/A
	Right Side	0.325	N/A	0.325	N/A	N/A
	Top Side	N/A	0.147	0.147	N/A	N/A
	Bottom Side	0.271	N/A	0.271	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 66 and WLAN 2.4G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 5.2G			
Head	Left Cheek	0.149	0.190	0.339	N/A	N/A
	Left Tilt 15 Degree	0.083	0.103	0.186	N/A	N/A
	Right Cheek	0.127	0.164	0.291	N/A	N/A
	Right Tilt 15 Degree	0.068	0.078	0.146	N/A	N/A
Body-Worn	Front Side	0.352	0.316	0.668	N/A	N/A
	Back Side	0.455	0.516	0.971	N/A	N/A
Hotspot	Front Side	0.352	0.316	0.668	N/A	N/A
	Back Side	0.455	0.516	0.971	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.211	N/A	0.211	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.161	N/A	0.161	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.2G			
Head	Left Cheek	0.137	0.190	0.327	N/A	N/A
	Left Tilt 15 Degree	0.078	0.103	0.181	N/A	N/A
	Right Cheek	0.122	0.164	0.286	N/A	N/A
	Right Tilt 15 Degree	0.061	0.078	0.139	N/A	N/A
Body-Worn	Front Side	0.417	0.316	0.733	N/A	N/A
	Back Side	0.548	0.516	1.064	N/A	N/A
Hotspot	Front Side	0.417	0.316	0.733	N/A	N/A
	Back Side	0.548	0.516	1.064	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.246	N/A	0.246	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.208	N/A	0.208	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 5.2G			
Head	Left Cheek	0.142	0.190	0.332	N/A	N/A
	Left Tilt 15 Degree	0.079	0.103	0.182	N/A	N/A
	Right Cheek	0.128	0.164	0.292	N/A	N/A
	Right Tilt 15 Degree	0.063	0.078	0.141	N/A	N/A
Body-Worn	Front Side	0.394	0.316	0.710	N/A	N/A
	Back Side	0.526	0.516	1.042	N/A	N/A
Hotspot	Front Side	0.394	0.316	0.710	N/A	N/A
	Back Side	0.526	0.516	1.042	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.240	N/A	0.240	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.198	N/A	0.198	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.2G			
Head	Left Cheek	0.212	0.190	0.402	N/A	N/A
	Left Tilt 15 Degree	0.119	0.103	0.222	N/A	N/A
	Right Cheek	0.185	0.164	0.349	N/A	N/A

	Right Tilt 15 Degree	0.084	0.078	0.162	N/A	N/A
Body-Worn	Front Side	0.596	0.316	0.912	N/A	N/A
	Back Side	0.790	0.516	1.306	N/A	N/A
Hotspot	Front Side	0.596	0.316	0.912	N/A	N/A
	Back Side	0.790	0.516	1.306	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.377	N/A	0.377	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.2G			
Head	Left Cheek	0.324	0.190	0.514	N/A	N/A
	Left Tilt 15 Degree	0.185	0.103	0.288	N/A	N/A
	Right Cheek	0.278	0.164	0.442	N/A	N/A
	Right Tilt 15 Degree	0.150	0.078	0.228	N/A	N/A
Body-Worn	Front Side	0.391	0.316	0.707	N/A	N/A
	Back Side	0.461	0.516	0.977	N/A	N/A
Hotspot	Front Side	0.391	0.316	0.707	N/A	N/A
	Back Side	0.461	0.516	0.977	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.203	N/A	0.203	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.171	N/A	0.171	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC0	WLAN 5.2G			
Head	Left Cheek	0.249	0.190	0.439	N/A	N/A
	Left Tilt 15 Degree	0.127	0.103	0.230	N/A	N/A
	Right Cheek	0.220	0.164	0.384	N/A	N/A
	Right Tilt 15 Degree	0.107	0.078	0.185	N/A	N/A
Body-Worn	Front Side	0.429	0.316	0.745	N/A	N/A
	Back Side	0.510	0.516	1.026	N/A	N/A
Hotspot	Front Side	0.429	0.316	0.745	N/A	N/A
	Back Side	0.510	0.516	1.026	N/A	N/A

	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.232	N/A	0.232	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.190	N/A	0.190	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC0 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC1	WLAN 5.2G			
Head	Left Cheek	0.141	0.190	0.331	N/A	N/A
	Left Tilt 15 Degree	0.077	0.103	0.180	N/A	N/A
	Right Cheek	0.132	0.164	0.296	N/A	N/A
	Right Tilt 15 Degree	0.070	0.078	0.148	N/A	N/A
Body-Worn	Front Side	0.511	0.316	0.827	N/A	N/A
	Back Side	0.605	0.516	1.121	N/A	N/A
Hotspot	Front Side	0.511	0.316	0.827	N/A	N/A
	Back Side	0.605	0.516	1.121	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.265	N/A	0.265	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.233	N/A	0.233	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC1 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.2G			
Head	Left Cheek	0.131	0.190	0.321	N/A	N/A
	Left Tilt 15 Degree	0.078	0.103	0.181	N/A	N/A
	Right Cheek	0.122	0.164	0.286	N/A	N/A
	Right Tilt 15 Degree	0.061	0.078	0.139	N/A	N/A
Body-Worn	Front Side	0.388	0.316	0.704	N/A	N/A
	Back Side	0.516	0.516	1.032	N/A	N/A
Hotspot	Front Side	0.388	0.316	0.704	N/A	N/A
	Back Side	0.516	0.516	1.032	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.233	N/A	0.233	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.197	N/A	0.197	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 5.2G.

Test Position	Scaled SAR _{MAX}		Σ 1-g SAR	SPLSR	Remark
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		LTE Band 4	WLAN 5.2G	(W/Kg)		
Head	Left Cheek	0.206	0.190	0.396	N/A	N/A
	Left Tilt 15 Degree	0.109	0.103	0.212	N/A	N/A
	Right Cheek	0.195	0.164	0.359	N/A	N/A
	Right Tilt 15 Degree	0.094	0.078	0.172	N/A	N/A
Body-Worn	Front Side	0.625	0.316	0.941	N/A	N/A
	Back Side	0.751	0.516	1.267	N/A	N/A
Hotspot	Front Side	0.625	0.316	0.941	N/A	N/A
	Back Side	0.751	0.516	1.267	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.347	N/A	0.347	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.285	N/A	0.285	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.2G			
Head	Left Cheek	0.284	0.190	0.474	N/A	N/A
	Left Tilt 15 Degree	0.156	0.103	0.259	N/A	N/A
	Right Cheek	0.246	0.164	0.410	N/A	N/A
	Right Tilt 15 Degree	0.132	0.078	0.210	N/A	N/A
Body-Worn	Front Side	0.271	0.316	0.587	N/A	N/A
	Back Side	0.360	0.516	0.876	N/A	N/A
Hotspot	Front Side	0.271	0.316	0.587	N/A	N/A
	Back Side	0.360	0.516	0.876	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.161	N/A	0.161	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.143	N/A	0.143	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.2G			
Head	Left Cheek	0.099	0.190	0.289	N/A	N/A
	Left Tilt 15 Degree	0.057	0.103	0.160	N/A	N/A
	Right Cheek	0.088	0.164	0.252	N/A	N/A
	Right Tilt 15 Degree	0.045	0.078	0.123	N/A	N/A

Body-Worn	Front Side	0.623	0.316	0.939	N/A	N/A
	Back Side	0.825	0.516	1.341	N/A	N/A
Hotspot	Front Side	0.623	0.316	0.939	N/A	N/A
	Back Side	0.825	0.516	1.341	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.381	N/A	0.381	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.298	N/A	0.298	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.2G			
Head	Left Cheek	0.196	0.190	0.386	N/A	N/A
	Left Tilt 15 Degree	0.107	0.103	0.210	N/A	N/A
	Right Cheek	0.168	0.164	0.332	N/A	N/A
	Right Tilt 15 Degree	0.077	0.078	0.155	N/A	N/A
Body-Worn	Front Side	0.271	0.316	0.587	N/A	N/A
	Back Side	0.344	0.516	0.860	N/A	N/A
Hotspot	Front Side	0.271	0.316	0.587	N/A	N/A
	Back Side	0.344	0.516	0.860	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A
	Right Side	0.162	N/A	0.162	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.129	N/A	0.129	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 66	WLAN 5.2G			
Head	Left Cheek	0.227	0.190	0.417	N/A	N/A
	Left Tilt 15 Degree	0.125	0.103	0.228	N/A	N/A
	Right Cheek	0.193	0.164	0.357	N/A	N/A
	Right Tilt 15 Degree	0.097	0.078	0.175	N/A	N/A
Body-Worn	Front Side	0.600	0.316	0.916	N/A	N/A
	Back Side	0.746	0.516	1.262	N/A	N/A
Hotspot	Front Side	0.600	0.316	0.916	N/A	N/A
	Back Side	0.746	0.516	1.262	N/A	N/A
	Left Side	N/A	0.108	0.108	N/A	N/A

	Right Side	0.325	N/A	0.325	N/A	N/A
	Top Side	N/A	0.165	0.165	N/A	N/A
	Bottom Side	0.271	N/A	0.271	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 66 and WLAN 5.2G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 5.8G			
Head	Left Cheek	0.149	0.568	0.717	N/A	N/A
	Left Tilt 15 Degree	0.083	0.335	0.418	N/A	N/A
	Right Cheek	0.127	0.508	0.635	N/A	N/A
	Right Tilt 15 Degree	0.068	0.229	0.297	N/A	N/A
Body-Worn	Front Side	0.352	0.579	0.931	N/A	N/A
	Back Side	0.455	0.614	1.069	N/A	N/A
Hotspot	Front Side	0.352	0.579	0.931	N/A	N/A
	Back Side	0.455	0.614	1.069	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.211	N/A	0.211	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.161	N/A	0.161	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.8G			
Head	Left Cheek	0.137	0.568	0.705	N/A	N/A
	Left Tilt 15 Degree	0.078	0.335	0.413	N/A	N/A
	Right Cheek	0.122	0.508	0.630	N/A	N/A
	Right Tilt 15 Degree	0.061	0.229	0.290	N/A	N/A
Body-Worn	Front Side	0.417	0.579	0.996	N/A	N/A
	Back Side	0.548	0.614	1.162	N/A	N/A
Hotspot	Front Side	0.417	0.579	0.996	N/A	N/A
	Back Side	0.548	0.614	1.162	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.246	N/A	0.246	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.208	N/A	0.208	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA	WLAN 5.8G			

		Band 2				
Head	Left Cheek	0.142	0.568	0.710	N/A	N/A
	Left Tilt 15 Degree	0.079	0.335	0.414	N/A	N/A
	Right Cheek	0.128	0.508	0.636	N/A	N/A
	Right Tilt 15 Degree	0.063	0.229	0.292	N/A	N/A
Body-Worn	Front Side	0.394	0.579	0.973	N/A	N/A
	Back Side	0.526	0.614	1.140	N/A	N/A
Hotspot	Front Side	0.394	0.579	0.973	N/A	N/A
	Back Side	0.526	0.614	1.140	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.240	N/A	0.240	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.198	N/A	0.198	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.8G			
Head	Left Cheek	0.212	0.568	0.780	N/A	N/A
	Left Tilt 15 Degree	0.119	0.335	0.454	N/A	N/A
	Right Cheek	0.185	0.508	0.693	N/A	N/A
	Right Tilt 15 Degree	0.084	0.229	0.313	N/A	N/A
Body-Worn	Front Side	0.596	0.579	1.175	N/A	N/A
	Back Side	0.790	0.614	1.404	N/A	N/A
Hotspot	Front Side	0.596	0.579	1.175	N/A	N/A
	Back Side	0.790	0.614	1.404	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.377	N/A	0.377	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.8G			
Head	Left Cheek	0.324	0.568	0.892	N/A	N/A
	Left Tilt 15 Degree	0.185	0.335	0.520	N/A	N/A
	Right Cheek	0.278	0.508	0.786	N/A	N/A
	Right Tilt 15 Degree	0.150	0.229	0.379	N/A	N/A

Body-Worn	Front Side	0.391	0.579	0.970	N/A	N/A
	Back Side	0.461	0.614	1.075	N/A	N/A
Hotspot	Front Side	0.391	0.579	0.970	N/A	N/A
	Back Side	0.461	0.614	1.075	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.203	N/A	0.203	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.171	N/A	0.171	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC0	WLAN 5.8G			
Head	Left Cheek	0.249	0.568	0.817	N/A	N/A
	Left Tilt 15 Degree	0.127	0.335	0.462	N/A	N/A
	Right Cheek	0.220	0.508	0.728	N/A	N/A
	Right Tilt 15 Degree	0.107	0.229	0.336	N/A	N/A
Body-Worn	Front Side	0.429	0.579	1.008	N/A	N/A
	Back Side	0.510	0.614	1.124	N/A	N/A
Hotspot	Front Side	0.429	0.579	1.008	N/A	N/A
	Back Side	0.510	0.614	1.124	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.232	N/A	0.232	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.190	N/A	0.190	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC0 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC1	WLAN 5.8G			
Head	Left Cheek	0.141	0.568	0.709	N/A	N/A
	Left Tilt 15 Degree	0.077	0.335	0.412	N/A	N/A
	Right Cheek	0.132	0.508	0.640	N/A	N/A
	Right Tilt 15 Degree	0.070	0.229	0.299	N/A	N/A
Body-Worn	Front Side	0.511	0.579	1.090	N/A	N/A
	Back Side	0.605	0.614	1.219	N/A	N/A
Hotspot	Front Side	0.511	0.579	1.090	N/A	N/A
	Back Side	0.605	0.614	1.219	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.265	N/A	0.265	N/A	N/A

	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.233	N/A	0.233	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC1 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.8G			
Head	Left Cheek	0.131	0.568	0.699	N/A	N/A
	Left Tilt 15 Degree	0.078	0.335	0.413	N/A	N/A
	Right Cheek	0.122	0.508	0.630	N/A	N/A
	Right Tilt 15 Degree	0.061	0.229	0.290	N/A	N/A
Body-Worn	Front Side	0.388	0.579	0.967	N/A	N/A
	Back Side	0.516	0.614	1.130	N/A	N/A
Hotspot	Front Side	0.388	0.579	0.967	N/A	N/A
	Back Side	0.516	0.614	1.130	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.233	N/A	0.233	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.197	N/A	0.197	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 5.8G			
Head	Left Cheek	0.206	0.568	0.774	N/A	N/A
	Left Tilt 15 Degree	0.109	0.335	0.444	N/A	N/A
	Right Cheek	0.195	0.508	0.703	N/A	N/A
	Right Tilt 15 Degree	0.094	0.229	0.323	N/A	N/A
Body-Worn	Front Side	0.625	0.579	1.204	N/A	N/A
	Back Side	0.751	0.614	1.365	N/A	N/A
Hotspot	Front Side	0.625	0.579	1.204	N/A	N/A
	Back Side	0.751	0.614	1.365	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.347	N/A	0.347	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.285	N/A	0.285	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.8G			
Head	Left Cheek	0.284	0.568	0.852	N/A	N/A

	Left Tilt 15 Degree	0.156	0.335	0.491	N/A	N/A
	Right Cheek	0.246	0.508	0.754	N/A	N/A
	Right Tilt 15 Degree	0.132	0.229	0.361	N/A	N/A
Body-Worn	Front Side	0.271	0.579	0.850	N/A	N/A
	Back Side	0.360	0.614	0.974	N/A	N/A
Hotspot	Front Side	0.271	0.579	0.850	N/A	N/A
	Back Side	0.360	0.614	0.974	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.161	N/A	0.161	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.143	N/A	0.143	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.8G			
Head	Left Cheek	0.099	0.568	0.667	N/A	N/A
	Left Tilt 15 Degree	0.057	0.335	0.392	N/A	N/A
	Right Cheek	0.088	0.508	0.596	N/A	N/A
	Right Tilt 15 Degree	0.045	0.229	0.274	N/A	N/A
Body-Worn	Front Side	0.623	0.579	1.202	N/A	N/A
	Back Side	0.825	0.614	1.439	N/A	N/A
Hotspot	Front Side	0.623	0.579	1.202	N/A	N/A
	Back Side	0.825	0.614	1.439	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.381	N/A	0.381	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.298	N/A	0.298	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.8G			
Head	Left Cheek	0.196	0.568	0.764	N/A	N/A
	Left Tilt 15 Degree	0.107	0.335	0.442	N/A	N/A
	Right Cheek	0.168	0.508	0.676	N/A	N/A
	Right Tilt 15 Degree	0.077	0.229	0.306	N/A	N/A
Body-Worn	Front Side	0.271	0.579	0.850	N/A	N/A
	Back Side	0.344	0.614	0.958	N/A	N/A

Hotspot	Front Side	0.271	0.579	0.850	N/A	N/A
	Back Side	0.344	0.614	0.958	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.162	N/A	0.162	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.129	N/A	0.129	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 66	WLAN 5.8G			
Head	Left Cheek	0.227	0.568	0.795	N/A	N/A
	Left Tilt 15 Degree	0.125	0.335	0.460	N/A	N/A
	Right Cheek	0.193	0.508	0.701	N/A	N/A
	Right Tilt 15 Degree	0.097	0.229	0.326	N/A	N/A
Body-Worn	Front Side	0.600	0.579	1.179	N/A	N/A
	Back Side	0.746	0.614	1.360	N/A	N/A
Hotspot	Front Side	0.600	0.579	1.179	N/A	N/A
	Back Side	0.746	0.614	1.360	N/A	N/A
	Left Side	N/A	0.236	0.236	N/A	N/A
	Right Side	0.325	N/A	0.325	N/A	N/A
	Top Side	N/A	0.365	0.365	N/A	N/A
	Bottom Side	0.271	N/A	0.271	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 66 and WLAN 5.8G.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	Bluetooth			
Head	Left Cheek	0.149	0.167	0.316	N/A	N/A
	Left Tilt 15 Degree	0.083	0.167	0.250	N/A	N/A
	Right Cheek	0.127	0.167	0.294	N/A	N/A
	Right Tilt 15 Degree	0.068	0.167	0.235	N/A	N/A
Body-Worn	Front Side	0.352	0.084	0.436	N/A	N/A
	Back Side	0.455	0.084	0.539	N/A	N/A
Hotspot	Front Side	0.352	0.084	0.436	N/A	N/A
	Back Side	0.455	0.084	0.539	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.211	N/A	0.211	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.161	N/A	0.161	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	Bluetooth			
Head	Left Cheek	0.137	0.167	0.304	N/A	N/A
	Left Tilt 15 Degree	0.078	0.167	0.245	N/A	N/A
	Right Cheek	0.122	0.167	0.289	N/A	N/A
	Right Tilt 15 Degree	0.061	0.167	0.228	N/A	N/A
Body-Worn	Front Side	0.417	0.084	0.501	N/A	N/A
	Back Side	0.548	0.084	0.632	N/A	N/A
Hotspot	Front Side	0.417	0.084	0.501	N/A	N/A
	Back Side	0.548	0.084	0.632	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.246	N/A	0.246	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.208	N/A	0.208	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	Bluetooth			
Head	Left Cheek	0.142	0.167	0.309	N/A	N/A
	Left Tilt 15 Degree	0.079	0.167	0.246	N/A	N/A
	Right Cheek	0.128	0.167	0.295	N/A	N/A
	Right Tilt 15 Degree	0.063	0.167	0.230	N/A	N/A
Body-Worn	Front Side	0.394	0.084	0.478	N/A	N/A
	Back Side	0.526	0.084	0.610	N/A	N/A
Hotspot	Front Side	0.394	0.084	0.478	N/A	N/A
	Back Side	0.526	0.084	0.610	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.240	N/A	0.240	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.198	N/A	0.198	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	Bluetooth			
Head	Left Cheek	0.212	0.167	0.379	N/A	N/A
	Left Tilt 15 Degree	0.119	0.167	0.286	N/A	N/A

	Right Cheek	0.185	0.167	0.352	N/A	N/A
	Right Tilt 15 Degree	0.084	0.167	0.251	N/A	N/A
Body-Worn	Front Side	0.596	0.084	0.680	N/A	N/A
	Back Side	0.790	0.084	0.874	N/A	N/A
Hotspot	Front Side	0.596	0.084	0.680	N/A	N/A
	Back Side	0.790	0.084	0.874	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.377	N/A	0.377	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.315	N/A	0.315	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	Bluetooth			
Head	Left Cheek	0.324	0.167	0.491	N/A	N/A
	Left Tilt 15 Degree	0.185	0.167	0.352	N/A	N/A
	Right Cheek	0.278	0.167	0.445	N/A	N/A
	Right Tilt 15 Degree	0.150	0.167	0.317	N/A	N/A
Body-Worn	Front Side	0.391	0.084	0.475	N/A	N/A
	Back Side	0.461	0.084	0.545	N/A	N/A
Hotspot	Front Side	0.391	0.084	0.475	N/A	N/A
	Back Side	0.461	0.084	0.545	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.203	N/A	0.203	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.171	N/A	0.171	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC0	Bluetooth			
Head	Left Cheek	0.249	0.167	0.416	N/A	N/A
	Left Tilt 15 Degree	0.127	0.167	0.294	N/A	N/A
	Right Cheek	0.220	0.167	0.387	N/A	N/A
	Right Tilt 15 Degree	0.107	0.167	0.274	N/A	N/A
Body-Worn	Front Side	0.429	0.084	0.513	N/A	N/A
	Back Side	0.510	0.084	0.594	N/A	N/A
Hotspot	Front Side	0.429	0.084	0.513	N/A	N/A

	Back Side	0.510	0.084	0.594	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.232	N/A	0.232	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.190	N/A	0.190	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC0 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		CDMA Band BC1	Bluetooth			
Head	Left Cheek	0.141	0.167	0.308	N/A	N/A
	Left Tilt 15 Degree	0.077	0.167	0.244	N/A	N/A
	Right Cheek	0.132	0.167	0.299	N/A	N/A
	Right Tilt 15 Degree	0.070	0.167	0.237	N/A	N/A
Body-Worn	Front Side	0.511	0.084	0.595	N/A	N/A
	Back Side	0.605	0.084	0.689	N/A	N/A
Hotspot	Front Side	0.511	0.084	0.595	N/A	N/A
	Back Side	0.605	0.084	0.689	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.265	N/A	0.265	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.233	N/A	0.233	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of CDMA Band BC1 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	Bluetooth			
Head	Left Cheek	0.131	0.167	0.298	N/A	N/A
	Left Tilt 15 Degree	0.078	0.167	0.245	N/A	N/A
	Right Cheek	0.122	0.167	0.289	N/A	N/A
	Right Tilt 15 Degree	0.061	0.167	0.228	N/A	N/A
Body-Worn	Front Side	0.388	0.084	0.472	N/A	N/A
	Back Side	0.516	0.084	0.600	N/A	N/A
Hotspot	Front Side	0.388	0.084	0.472	N/A	N/A
	Back Side	0.516	0.084	0.600	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.233	N/A	0.233	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.197	N/A	0.197	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	Bluetooth			
Head	Left Cheek	0.206	0.167	0.373	N/A	N/A
	Left Tilt 15 Degree	0.109	0.167	0.276	N/A	N/A
	Right Cheek	0.195	0.167	0.362	N/A	N/A
	Right Tilt 15 Degree	0.094	0.167	0.261	N/A	N/A
Body-Worn	Front Side	0.625	0.084	0.709	N/A	N/A
	Back Side	0.751	0.084	0.835	N/A	N/A
Hotspot	Front Side	0.625	0.084	0.709	N/A	N/A
	Back Side	0.751	0.084	0.835	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.347	N/A	0.347	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.285	N/A	0.285	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	Bluetooth			
Head	Left Cheek	0.284	0.167	0.451	N/A	N/A
	Left Tilt 15 Degree	0.156	0.167	0.323	N/A	N/A
	Right Cheek	0.246	0.167	0.413	N/A	N/A
	Right Tilt 15 Degree	0.132	0.167	0.299	N/A	N/A
Body-Worn	Front Side	0.271	0.084	0.355	N/A	N/A
	Back Side	0.360	0.084	0.444	N/A	N/A
Hotspot	Front Side	0.271	0.084	0.355	N/A	N/A
	Back Side	0.360	0.084	0.444	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.161	N/A	0.161	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.143	N/A	0.143	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	Bluetooth			
Head	Left Cheek	0.099	0.167	0.266	N/A	N/A
	Left Tilt 15 Degree	0.057	0.167	0.224	N/A	N/A
	Right Cheek	0.088	0.167	0.255	N/A	N/A
	Right Tilt 15 Degree	0.045	0.167	0.212	N/A	N/A

Body-Worn	Front Side	0.623	0.084	0.707	N/A	N/A
	Back Side	0.825	0.084	0.909	N/A	N/A
Hotspot	Front Side	0.623	0.084	0.707	N/A	N/A
	Back Side	0.825	0.084	0.909	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.381	N/A	0.381	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.298	N/A	0.298	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	Bluetooth			
Head	Left Cheek	0.196	0.167	0.363	N/A	N/A
	Left Tilt 15 Degree	0.107	0.167	0.274	N/A	N/A
	Right Cheek	0.168	0.167	0.335	N/A	N/A
	Right Tilt 15 Degree	0.077	0.167	0.244	N/A	N/A
Body-Worn	Front Side	0.271	0.084	0.355	N/A	N/A
	Back Side	0.344	0.084	0.428	N/A	N/A
Hotspot	Front Side	0.271	0.084	0.355	N/A	N/A
	Back Side	0.344	0.084	0.428	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A
	Right Side	0.162	N/A	0.162	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.129	N/A	0.129	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and Bluetooth.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 66	Bluetooth			
Head	Left Cheek	0.227	0.167	0.394	N/A	N/A
	Left Tilt 15 Degree	0.125	0.167	0.292	N/A	N/A
	Right Cheek	0.193	0.167	0.360	N/A	N/A
	Right Tilt 15 Degree	0.097	0.167	0.264	N/A	N/A
Body-Worn	Front Side	0.600	0.084	0.684	N/A	N/A
	Back Side	0.746	0.084	0.830	N/A	N/A
Hotspot	Front Side	0.600	0.084	0.684	N/A	N/A
	Back Side	0.746	0.084	0.830	N/A	N/A
	Left Side	N/A	0.084	0.084	N/A	N/A

	Right Side	0.325	N/A	0.325	N/A	N/A
	Top Side	N/A	0.084	0.084	N/A	N/A
	Bottom Side	0.271	N/A	0.271	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 66 and Bluetooth.

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - SID750 - Head
MEASUREMENT 2 System Performance Check - SID750 - Body
MEASUREMENT 3 System Performance Check - SID835 - Head
MEASUREMENT 4 System Performance Check - SID835 - Body
MEASUREMENT 5 System Performance Check - SID1800 - Head
MEASUREMENT 6 System Performance Check - SID1800 - Body
MEASUREMENT 7 System Performance Check - SID1900 - Head
MEASUREMENT 8 System Performance Check - SID1900 - Body
MEASUREMENT 9 System Performance Check - SID2450 - Head
MEASUREMENT 10 System Performance Check - SID2450 - Body
MEASUREMENT 11 System Performance Check - SID2600 - Head
MEASUREMENT 12 System Performance Check - SID2600 - Body
MEASUREMENT 13 System Performance Check - SID5200 - Head
MEASUREMENT 14 System Performance Check - SID5200 - Body
MEASUREMENT 15 System Performance Check - SID5800 - Head
MEASUREMENT 16 System Performance Check - SID5800 - Body

MEASUREMENT 1

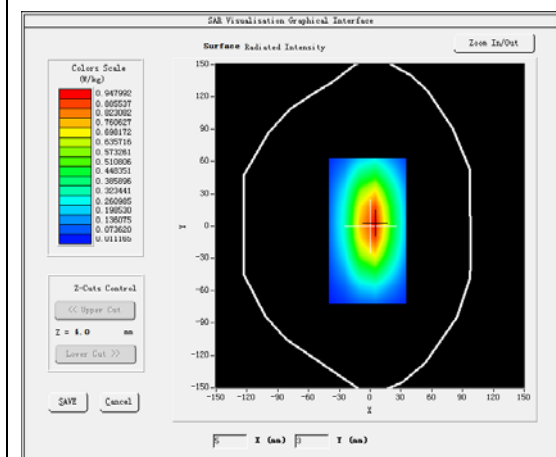
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

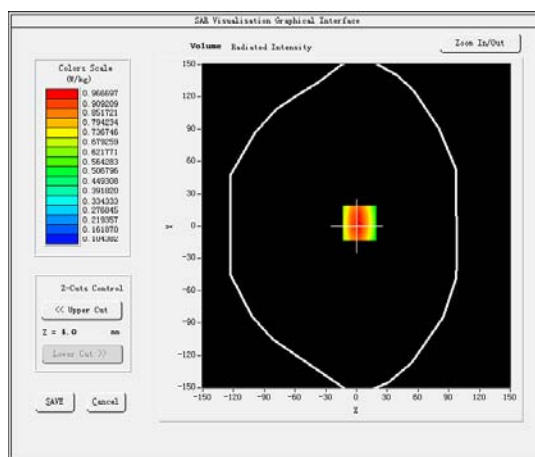
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	40.413162
Relative permittivity (imaginary part)	22.101263
Conductivity (S/m)	0.922262
Variation (%)	-3.810000

SURFACE SAR



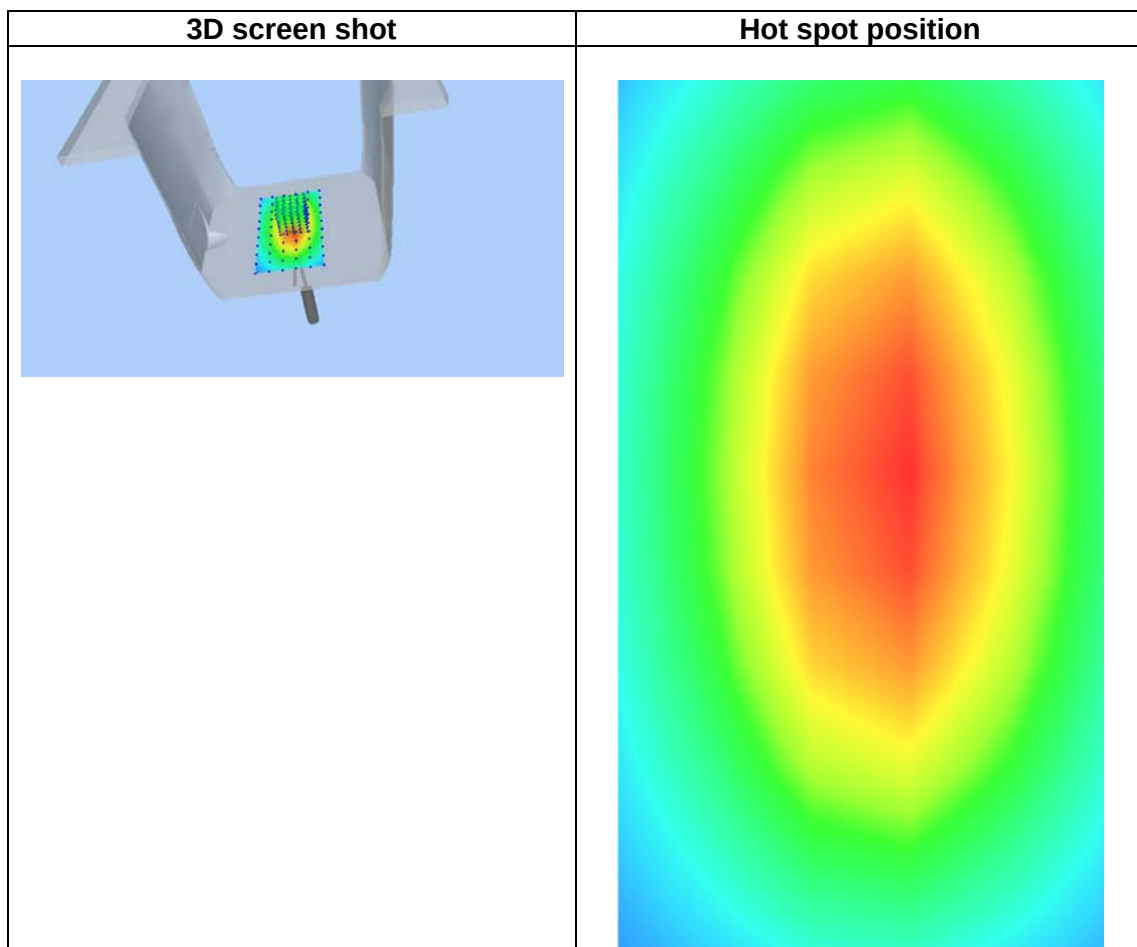
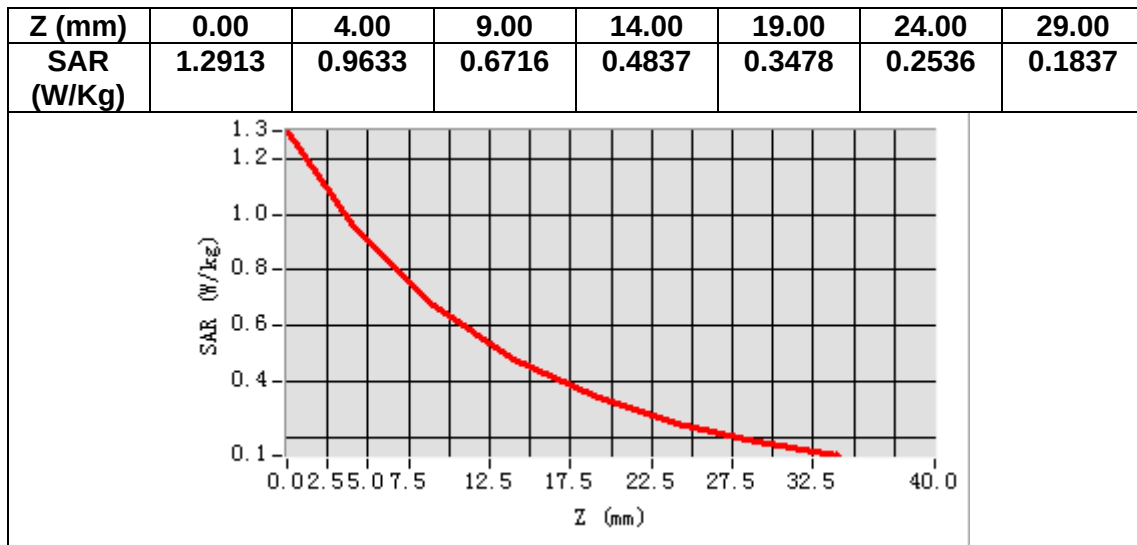
VOLUME SAR



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.565218
SAR 1g (W/Kg)	0.819362



MEASUREMENT 2

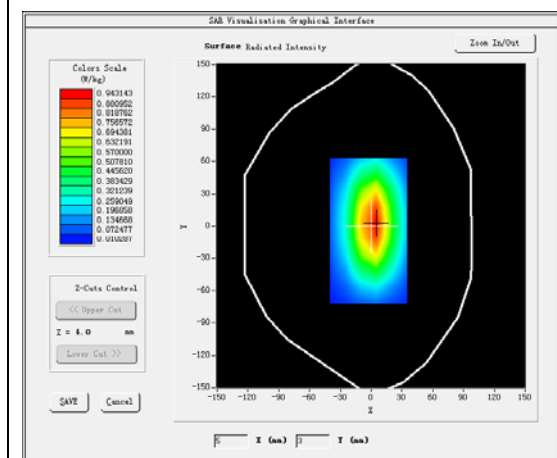
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW750</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

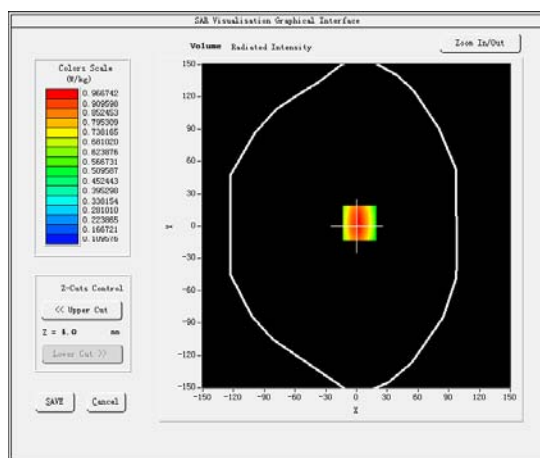
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	55.260248
Relative permittivity (imaginary part)	23.343842
Conductivity (S/m)	0.970318
Variation (%)	-1.490000

SURFACE SAR



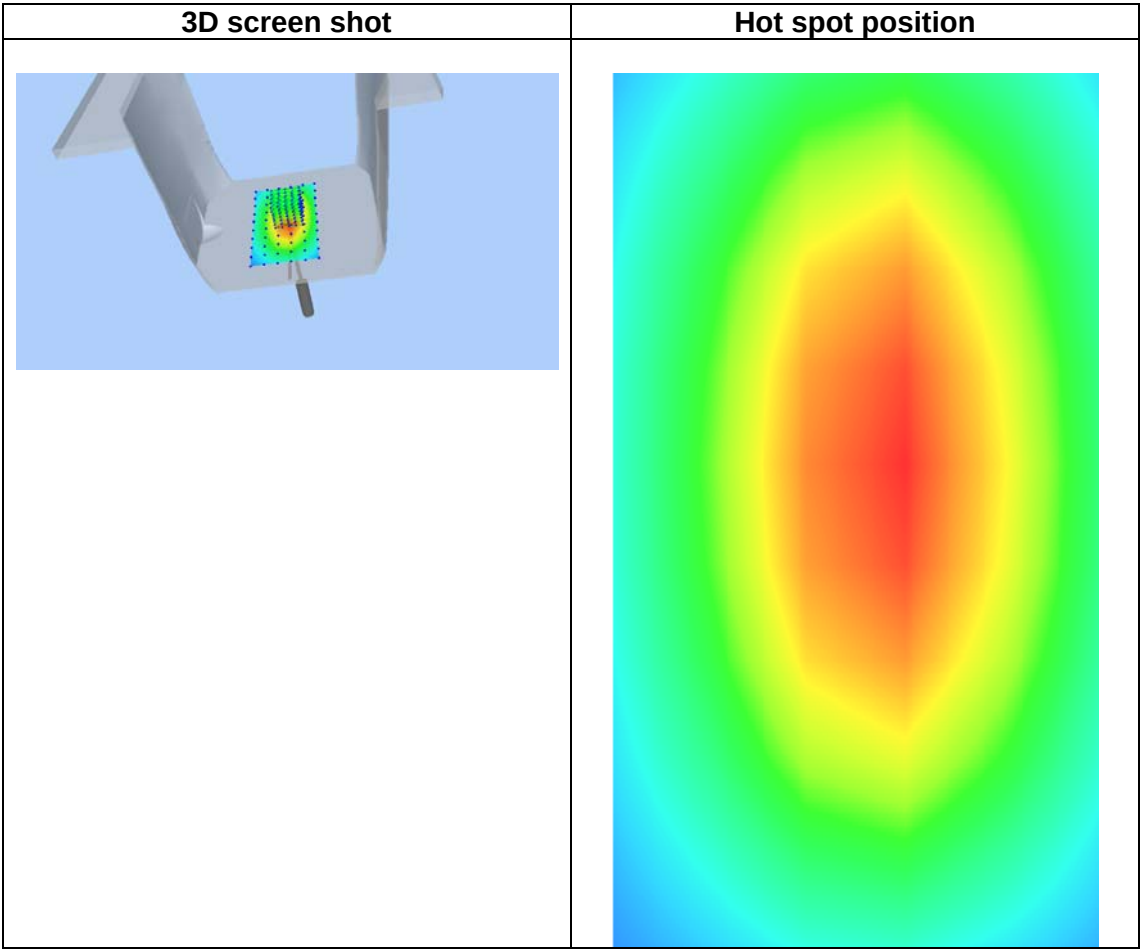
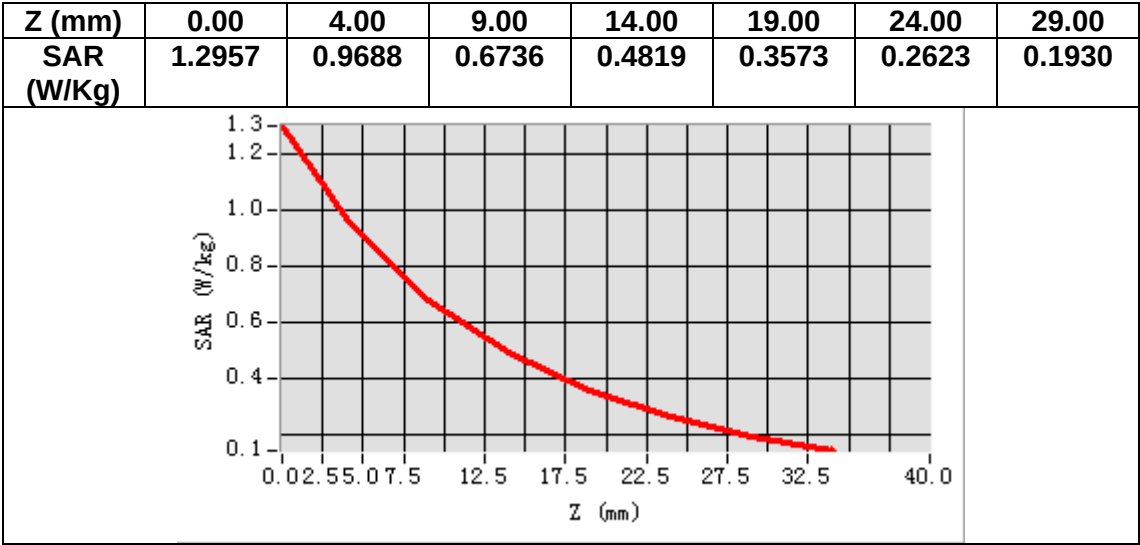
VOLUME SAR



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.573281
SAR 1g (W/Kg)	0.841263



MEASUREMENT 3

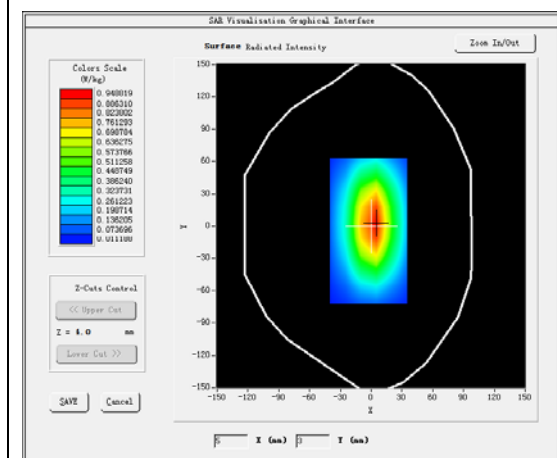
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

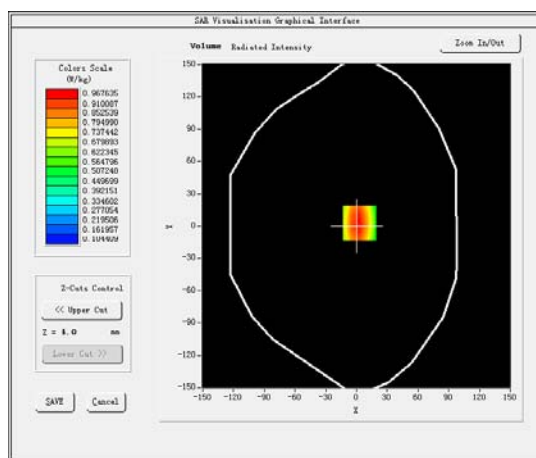
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	40.343541
Relative permittivity (imaginary part)	20.209613
Conductivity (S/m)	0.940542
Variation (%)	1.870000

SURFACE SAR



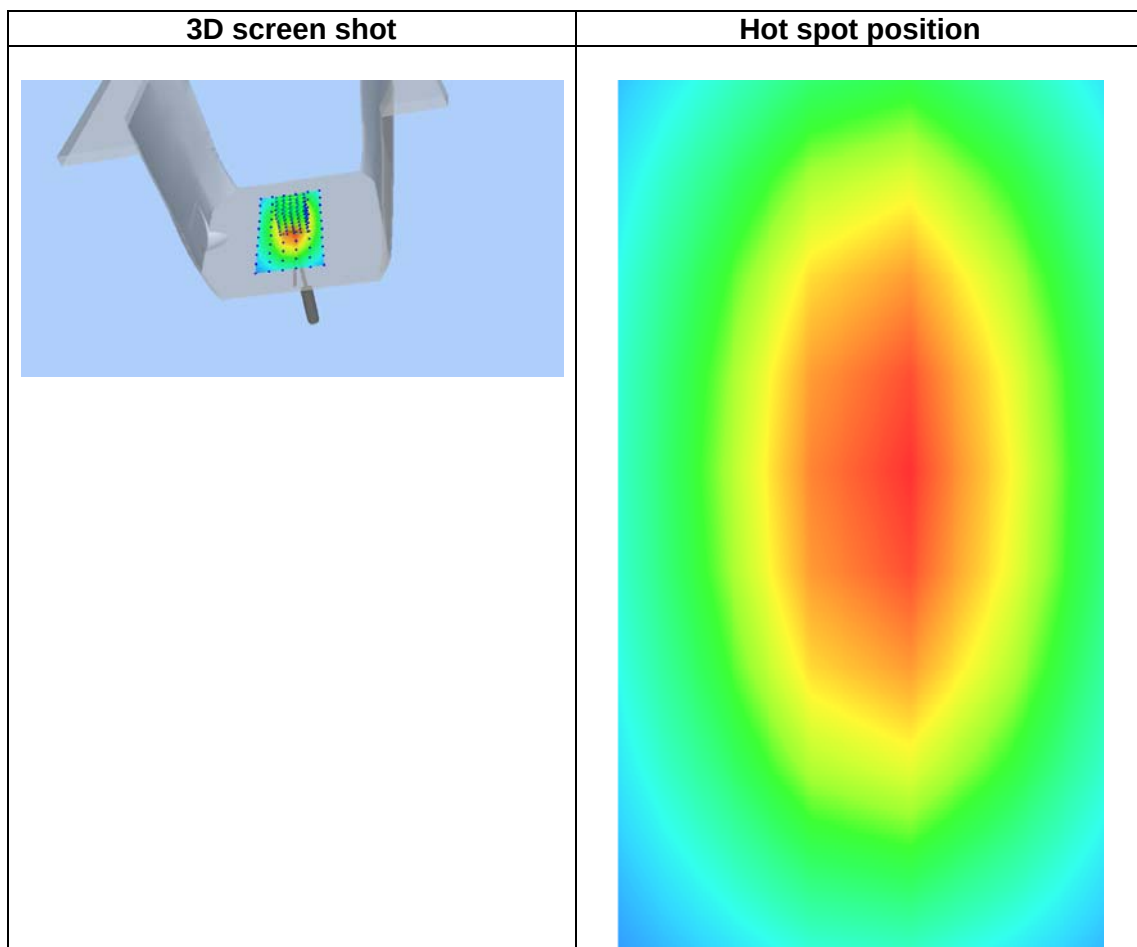
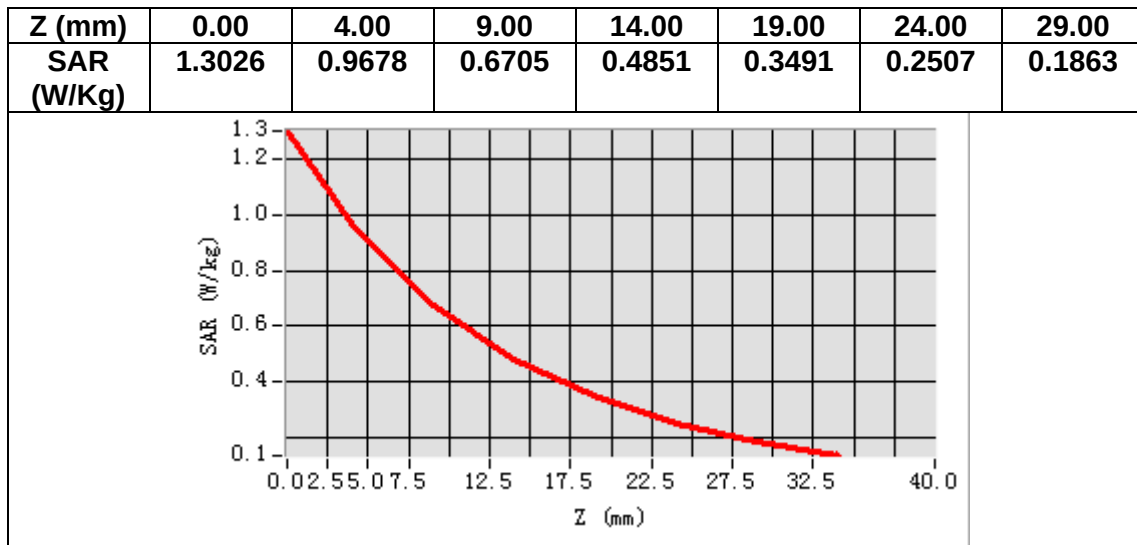
VOLUME SAR



Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.613466
SAR 1g (W/Kg)	0.931035



MEASUREMENT 4

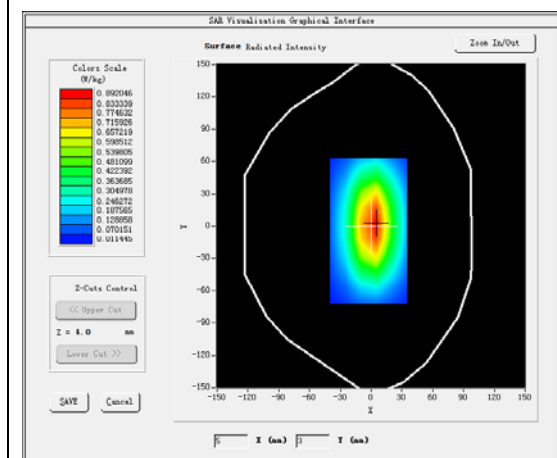
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

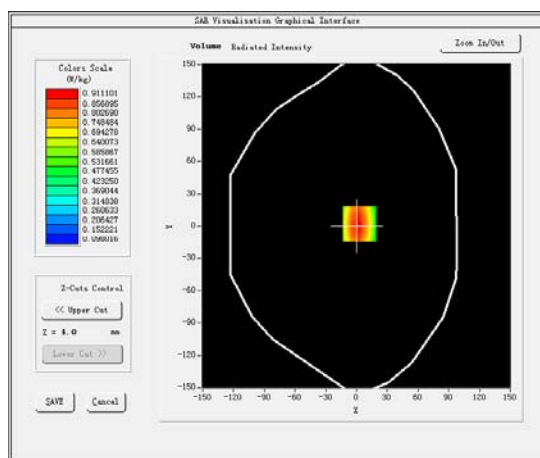
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.351101
Relative permittivity (imaginary part)	21.403359
Conductivity (S/m)	0.991236
Variation (%)	-1.200000

SURFACE SAR



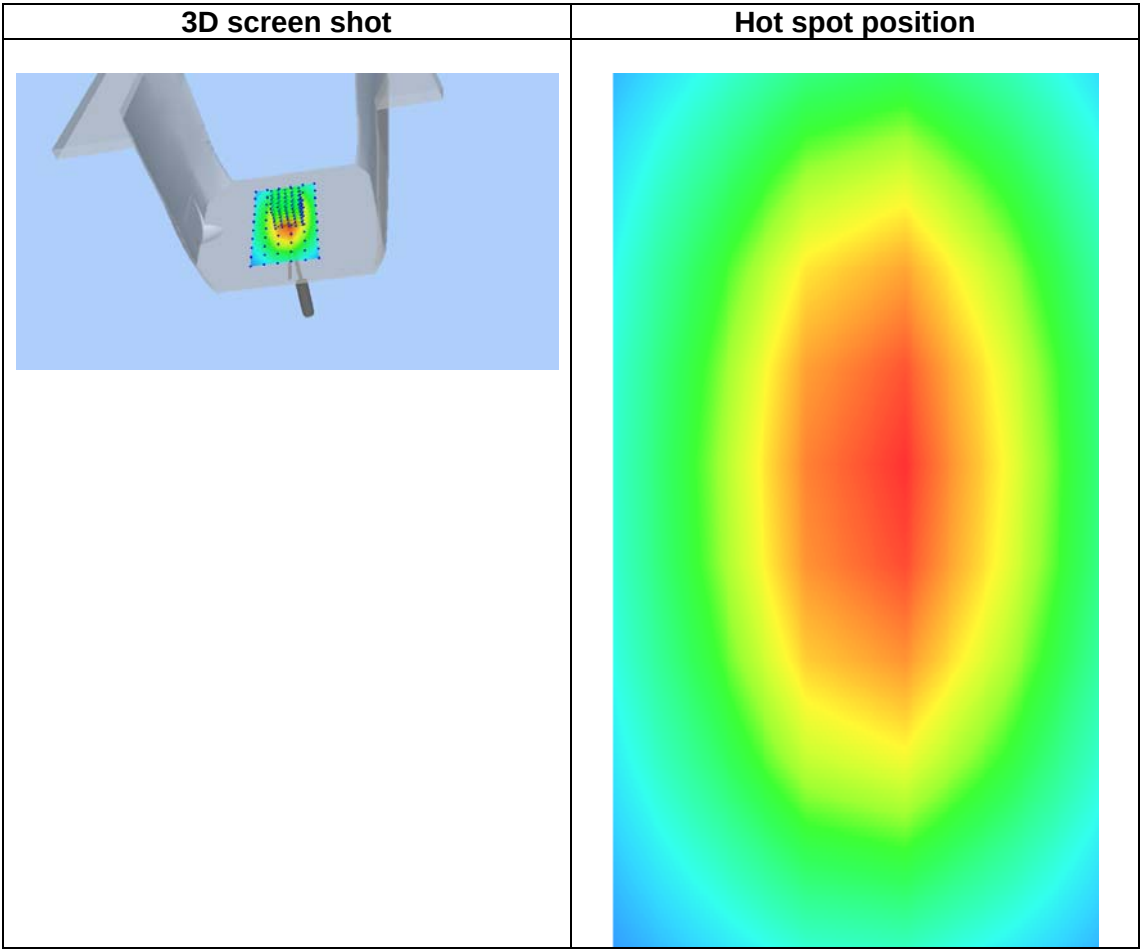
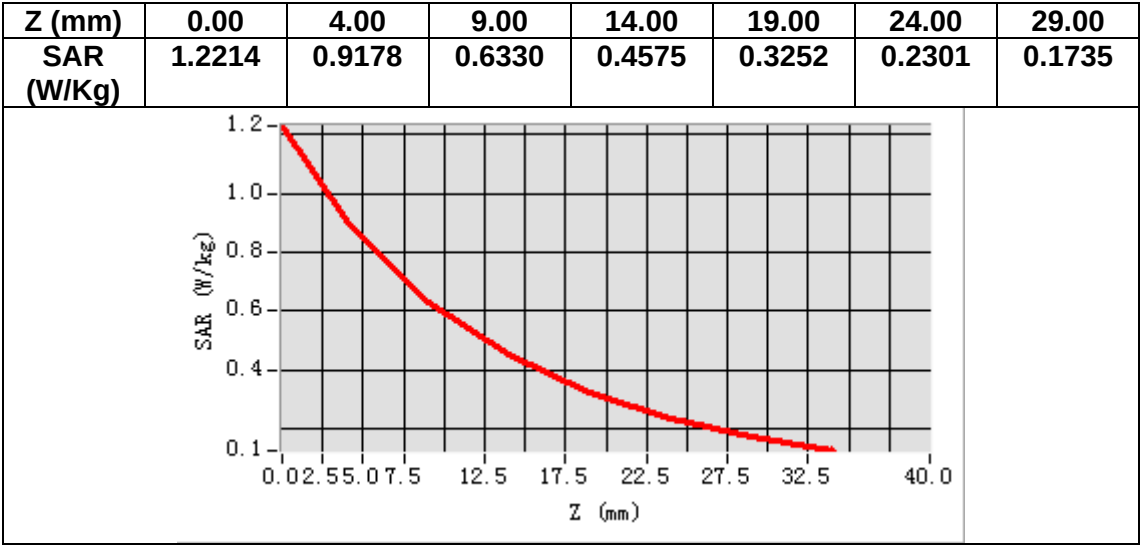
VOLUME SAR



Maximum location: X=3.00, Y=2.00

SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.622123
SAR 1g (W/Kg)	1.046356



MEASUREMENT 5

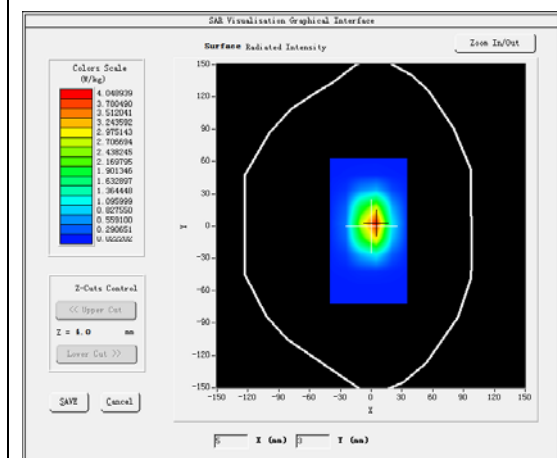
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

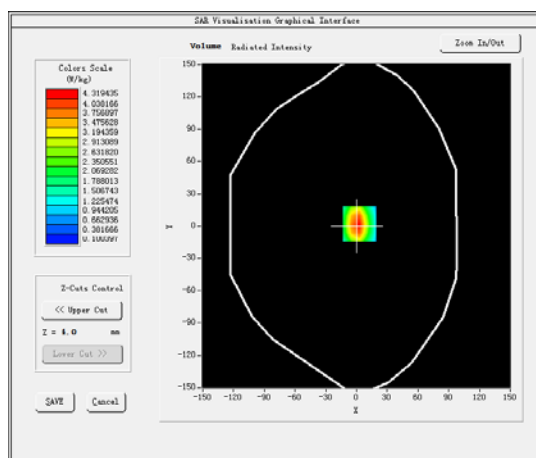
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.301237
Relative permittivity (imaginary part)	14.173229
Conductivity (S/m)	1.421367
Variation (%)	-2.110000

SURFACE SAR



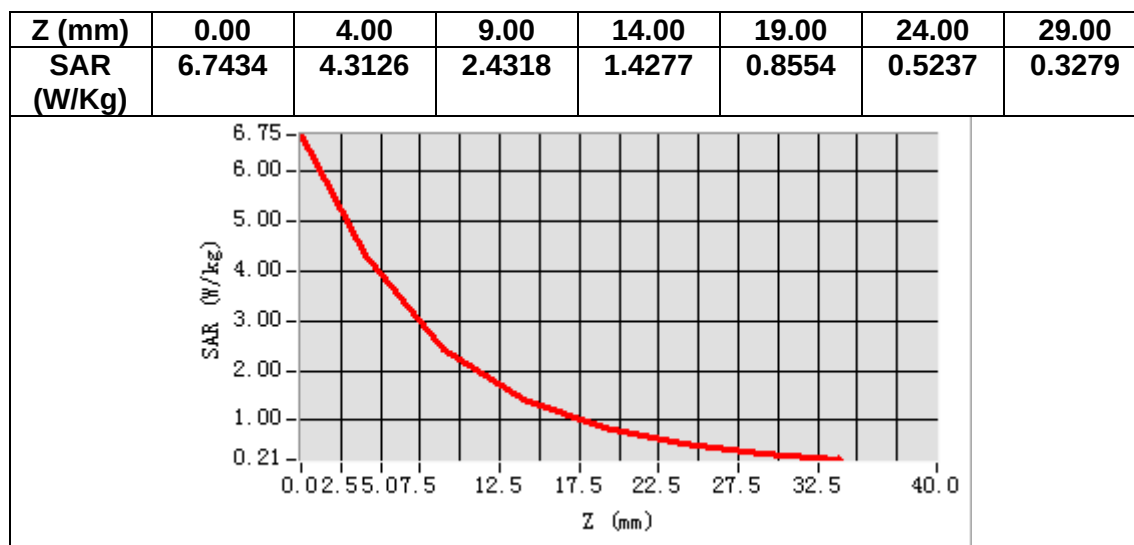
VOLUME SAR

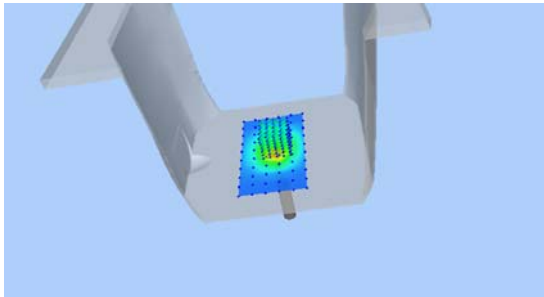
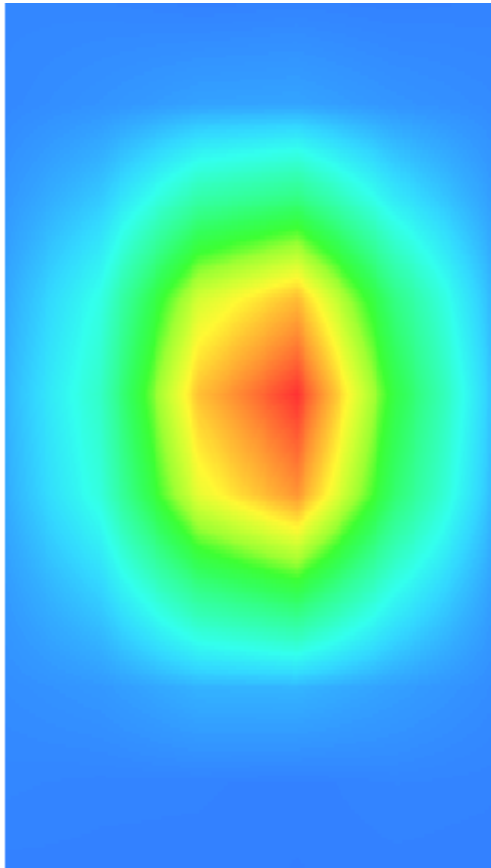


Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	2.100397
SAR 1g (W/Kg)	3.711451



3D screen shot	Hot spot position
 A 3D rendering of a robotic arm's gripper. A square grid of colored dots is overlaid on the gripper's surface, representing a hot spot. The colors range from blue (low intensity) to red (high intensity), with the highest intensity concentrated in the center of the grid.	 A 2D heatmap visualization of the hot spot position. The image shows a central region of high intensity (red/orange) surrounded by concentric rings of decreasing intensity (yellow, green, cyan, and blue). The shape is roughly oval and centered in the frame.

MEASUREMENT 6

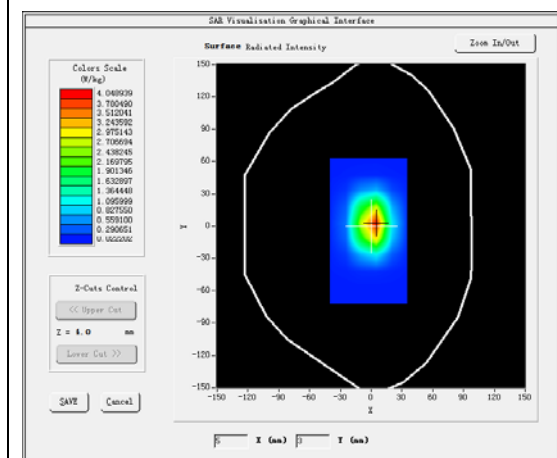
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

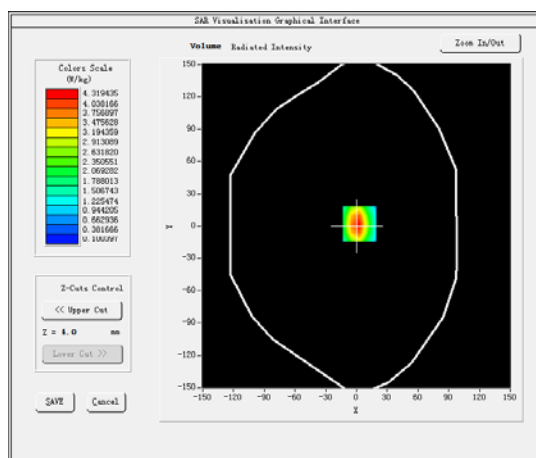
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	52.963510
Relative permittivity (imaginary part)	15.584016
Conductivity (S/m)	1.583096
Variation (%)	2.020000

SURFACE SAR



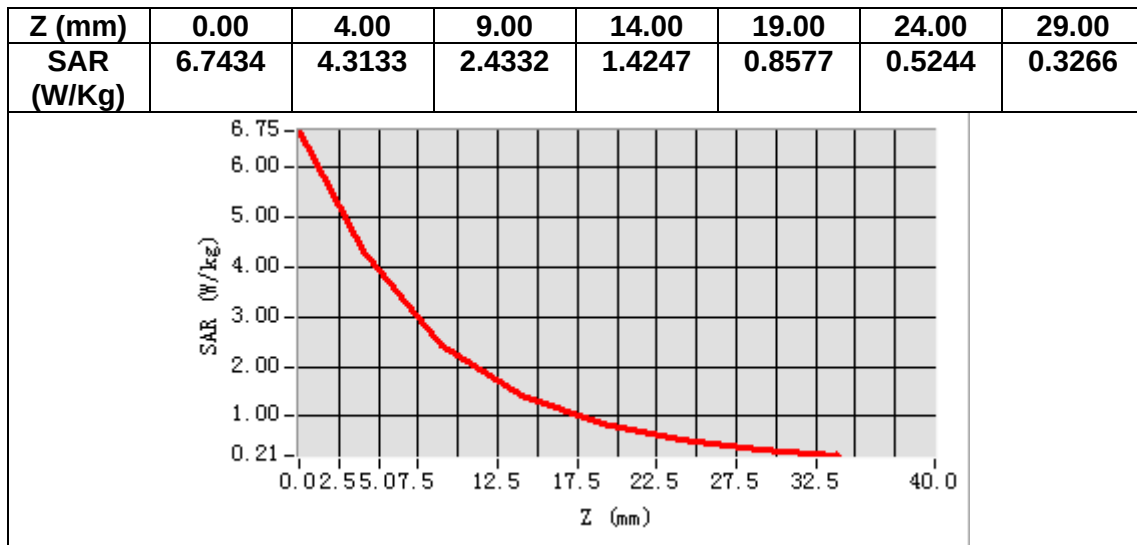
VOLUME SAR



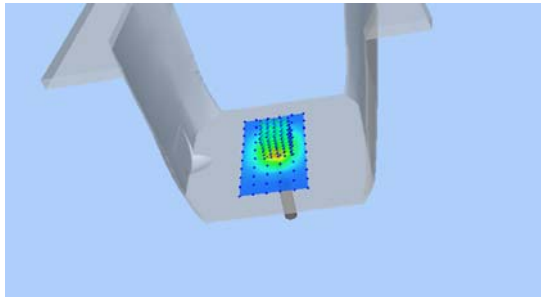
Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

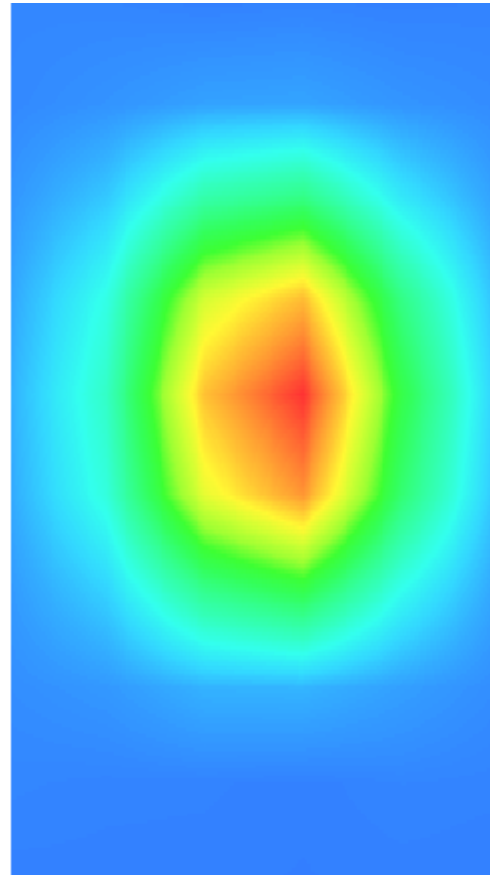
SAR 10g (W/Kg)	2.172379
SAR 1g (W/Kg)	3.797268



3D screen shot



Hot spot position



MEASUREMENT 7

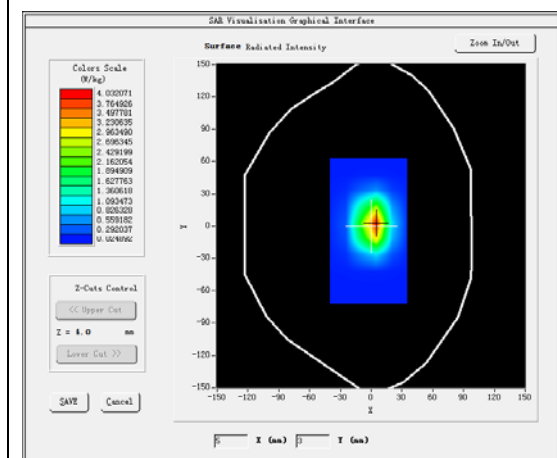
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

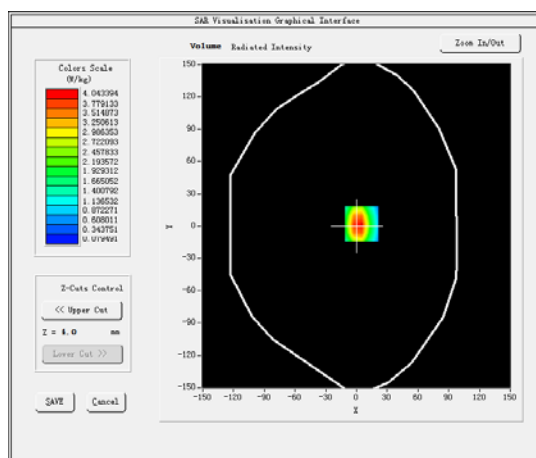
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	40.861287
Relative permittivity (imaginary part)	13.803008
Conductivity (S/m)	1.460336
Variation (%)	-1.430000

SURFACE SAR



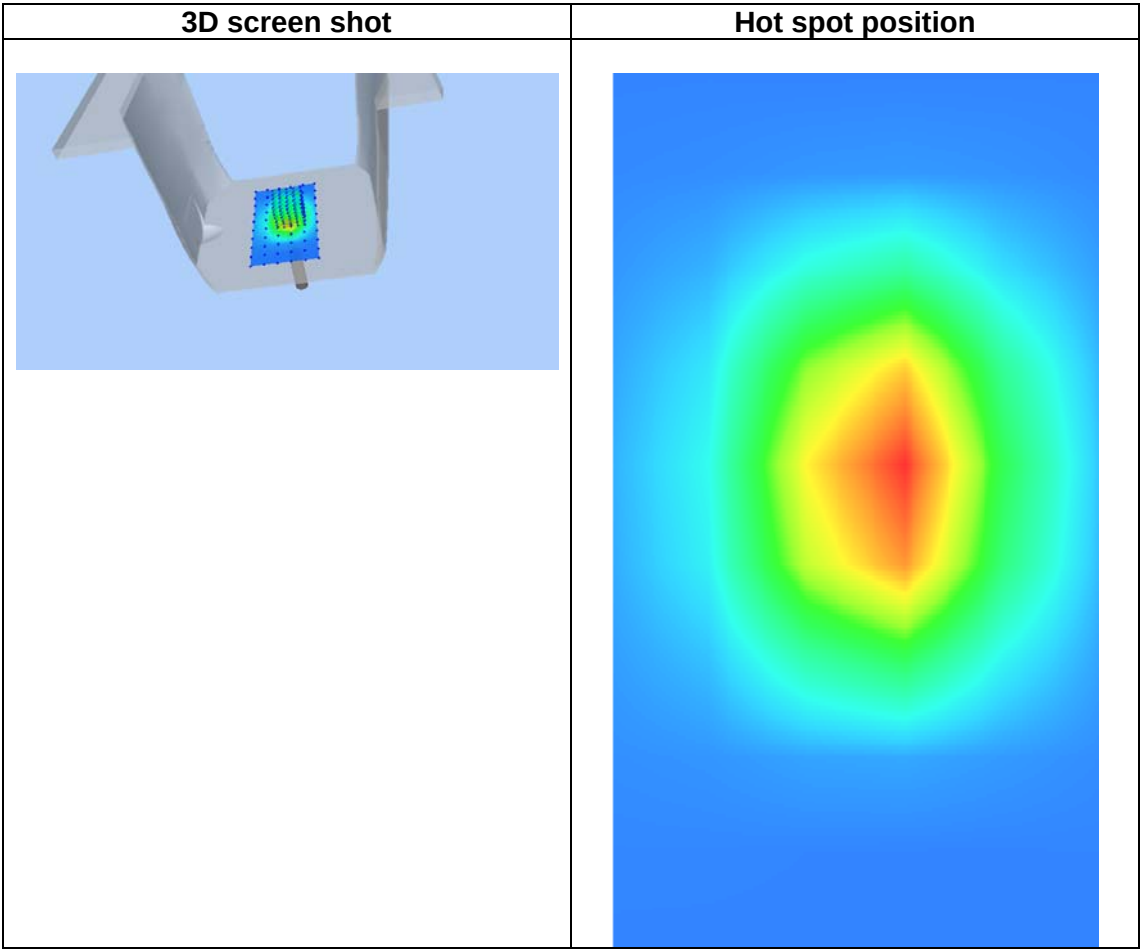
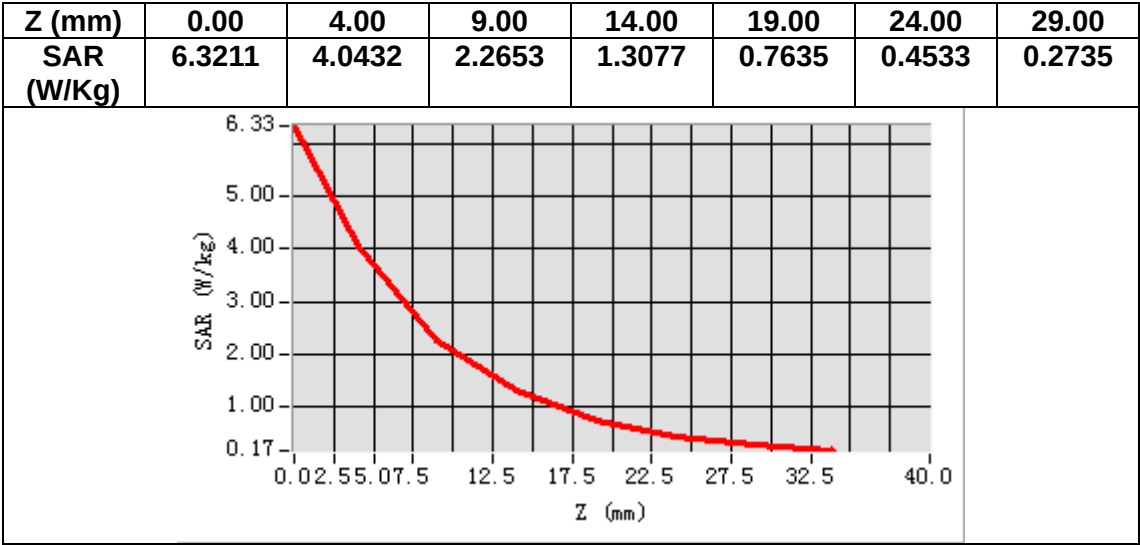
VOLUME SAR



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	2.084456
SAR 1g (W/Kg)	3.748365



MEASUREMENT 8

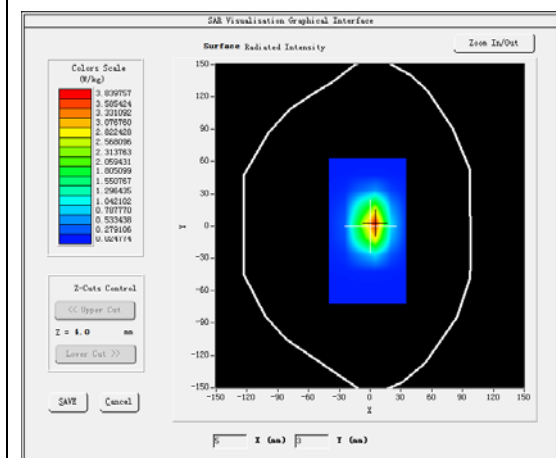
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

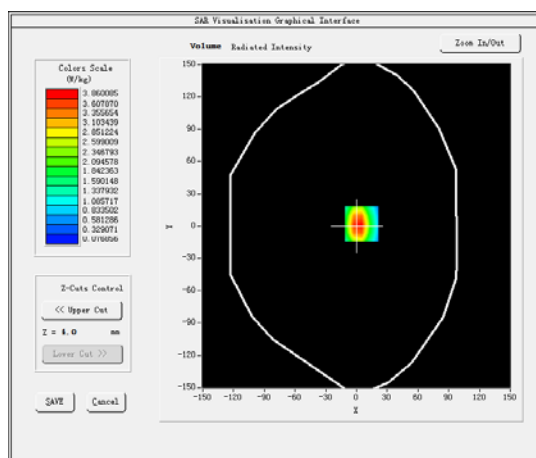
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.463335
Relative permittivity (imaginary part)	14.573503
Conductivity (S/m)	1.543566
Variation (%)	3.460000

SURFACE SAR



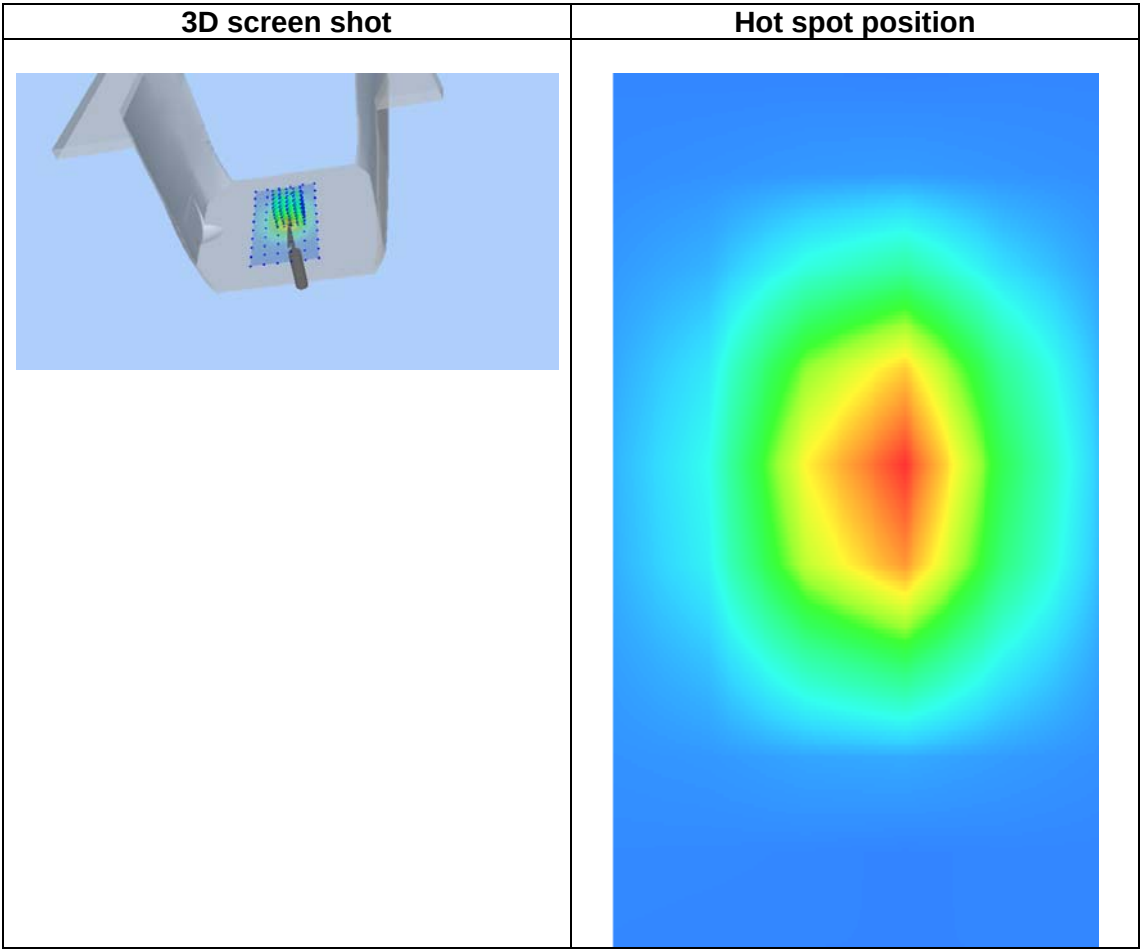
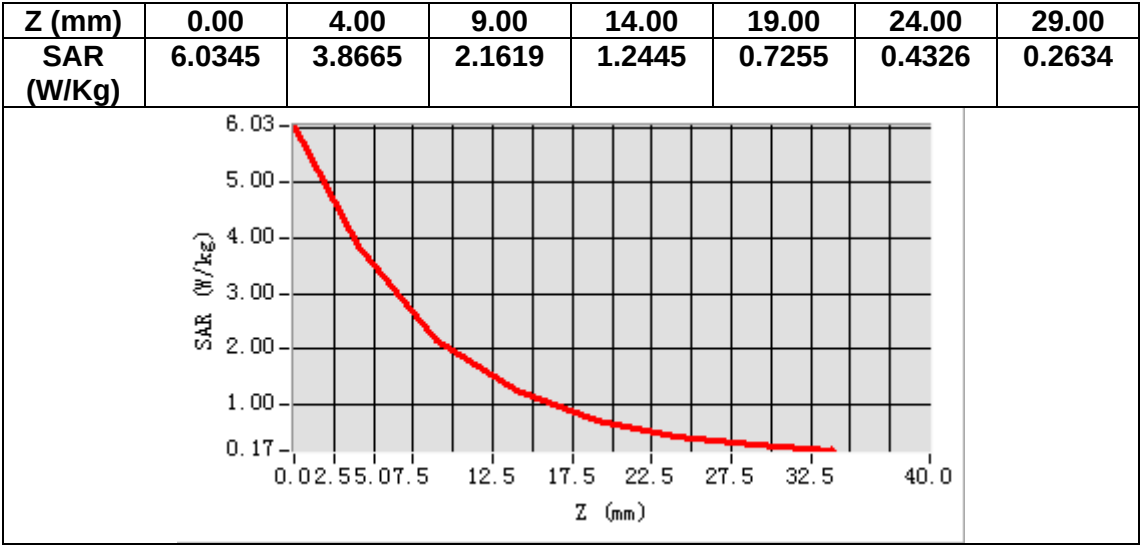
VOLUME SAR



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	2.010329
SAR 1g (W/Kg)	3.908402



MEASUREMENT 9

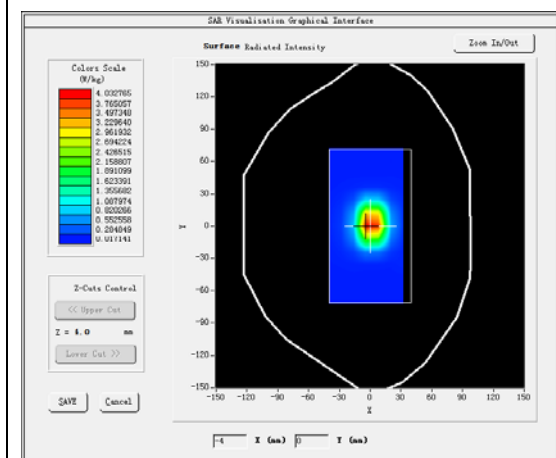
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

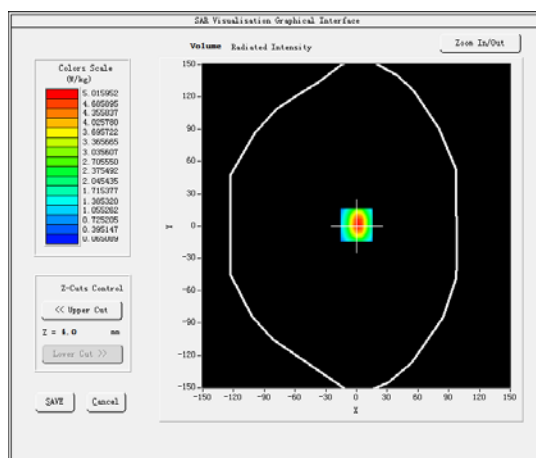
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	38.401421
Relative permittivity (imaginary part)	13.712631
Conductivity (S/m)	1.870663
Variation (%)	-3.350000

SURFACE SAR



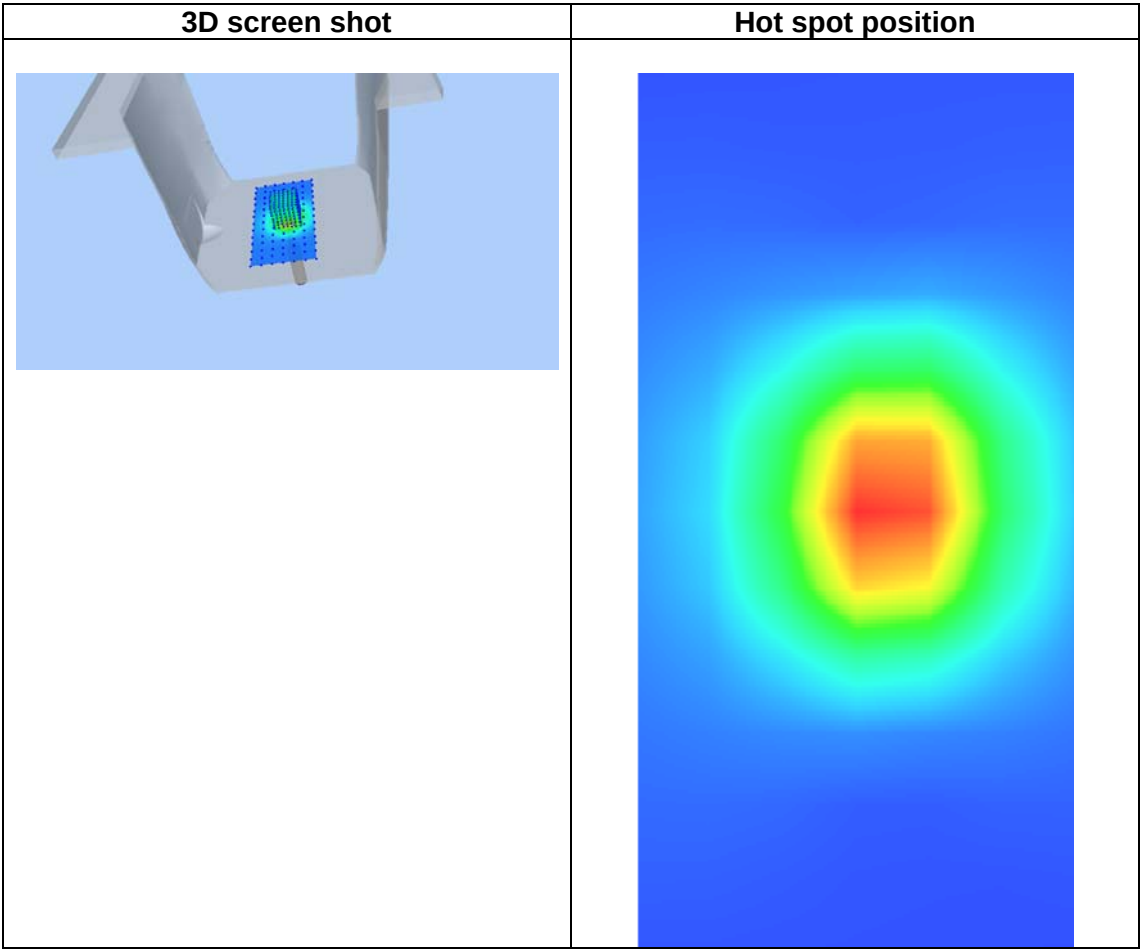
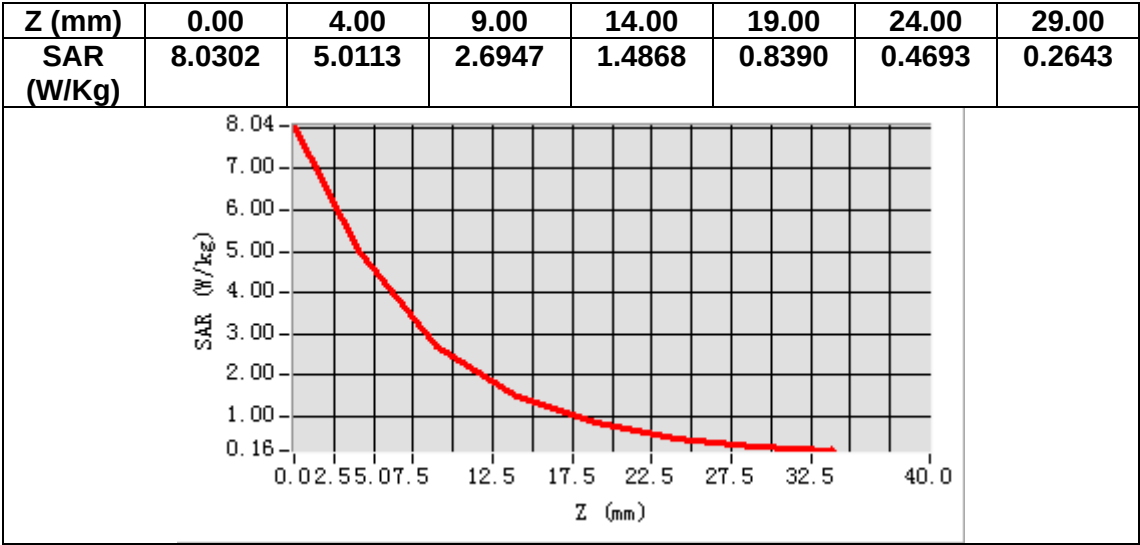
VOLUME SAR



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

SAR 10g (W/Kg)	2.350375
SAR 1g (W/Kg)	5.121435



MEASUREMENT 10

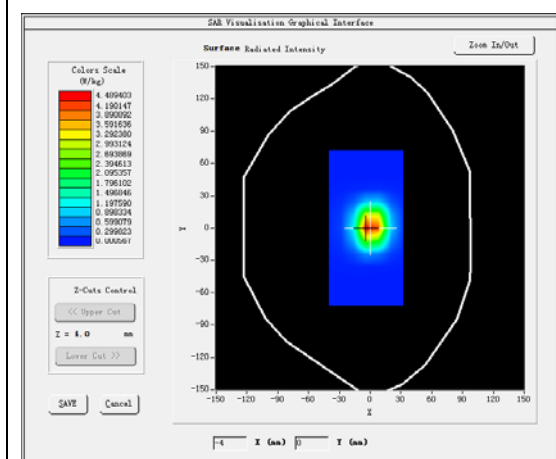
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7, dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2450</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

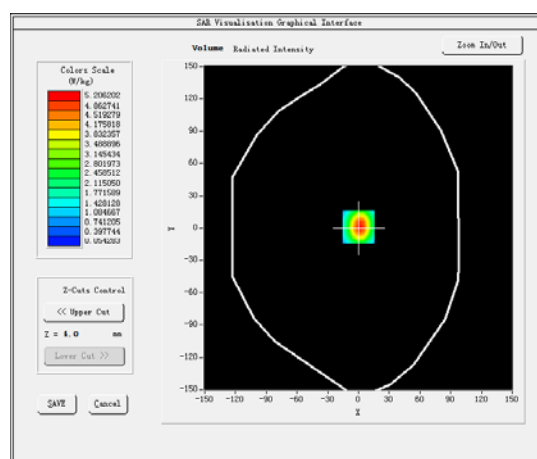
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	51.741497
Relative permittivity (imaginary part)	14.933566
Conductivity (S/m)	2.032816
Variation (%)	1.420000

SURFACE SAR



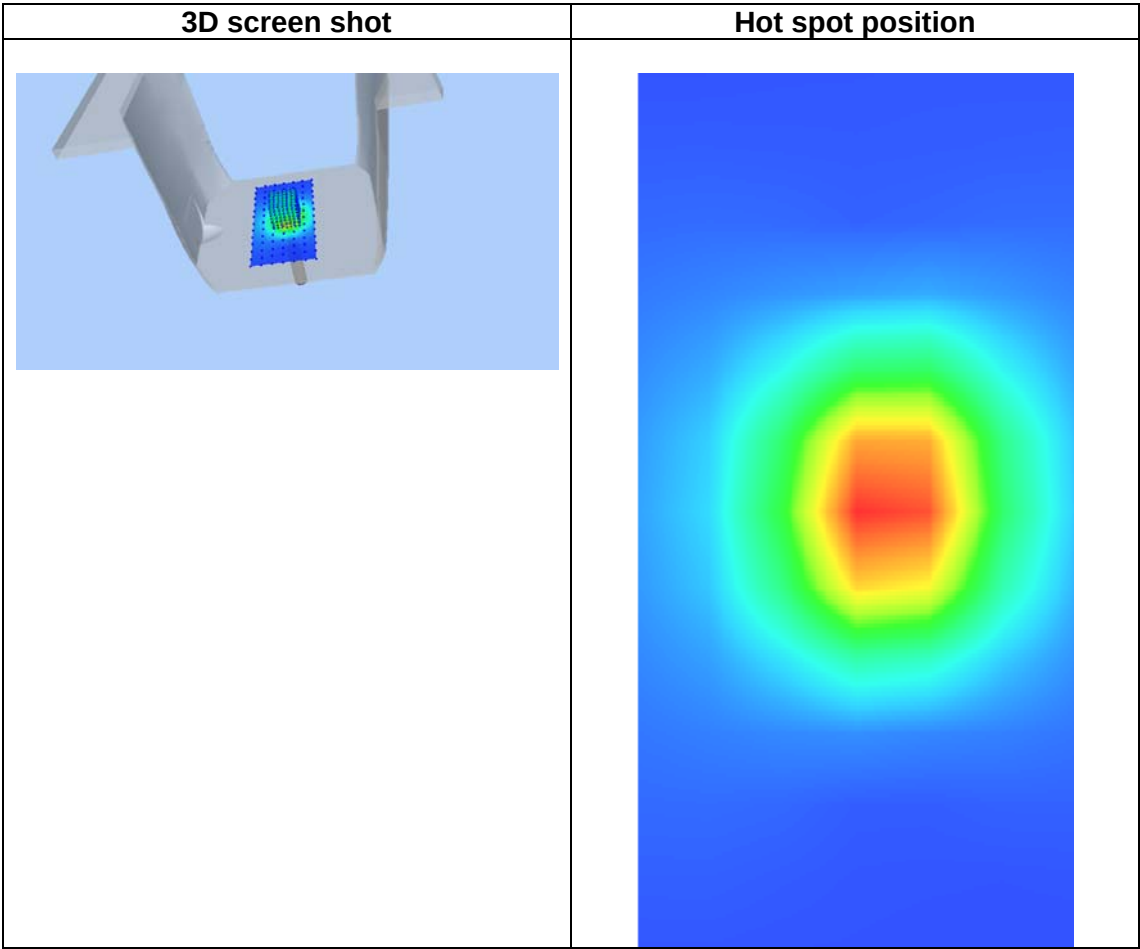
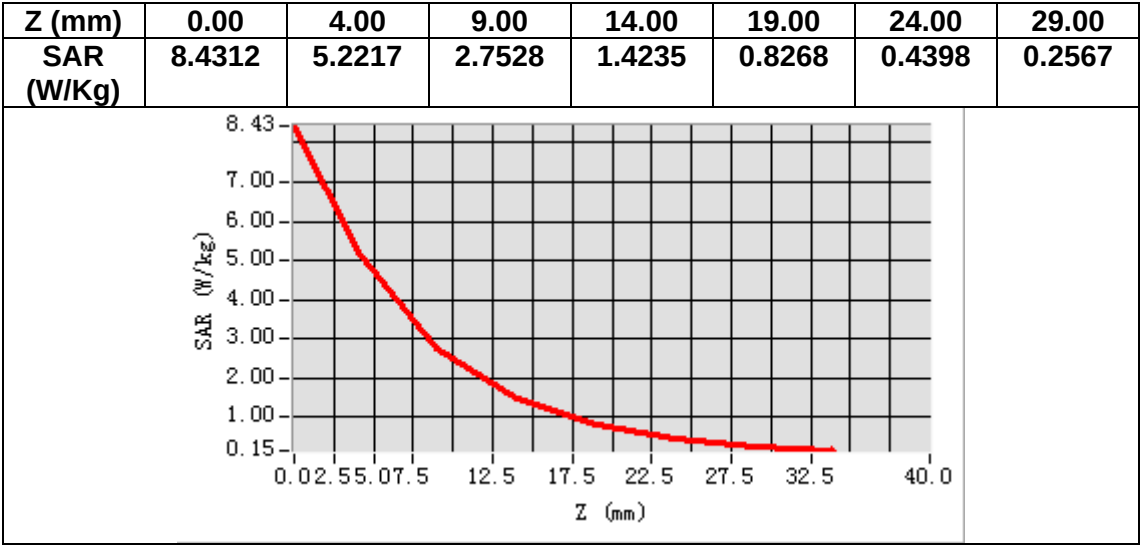
VOLUME SAR



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.46 W/kg

SAR 10g (W/Kg)	2.281285
SAR 1g (W/Kg)	5.186270



MEASUREMENT 11

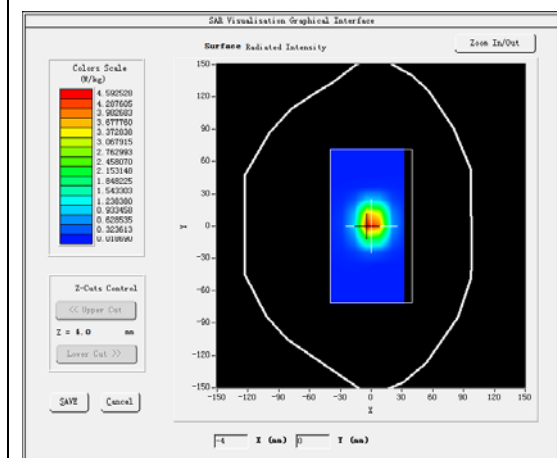
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

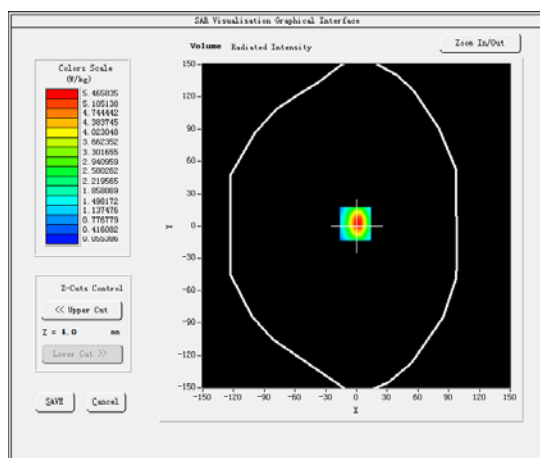
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.772638
Relative permittivity (imaginary part)	14.153997
Conductivity (S/m)	2.043631
Variation (%)	-0.040000

SURFACE SAR



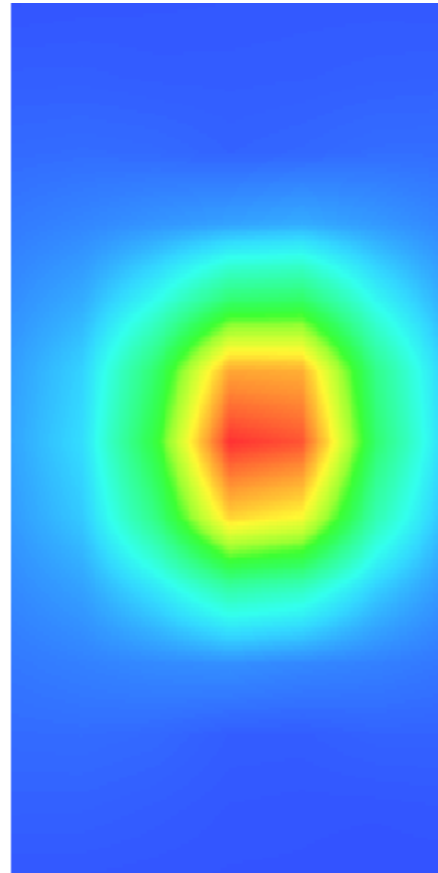
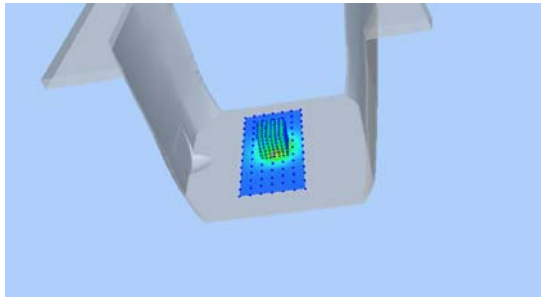
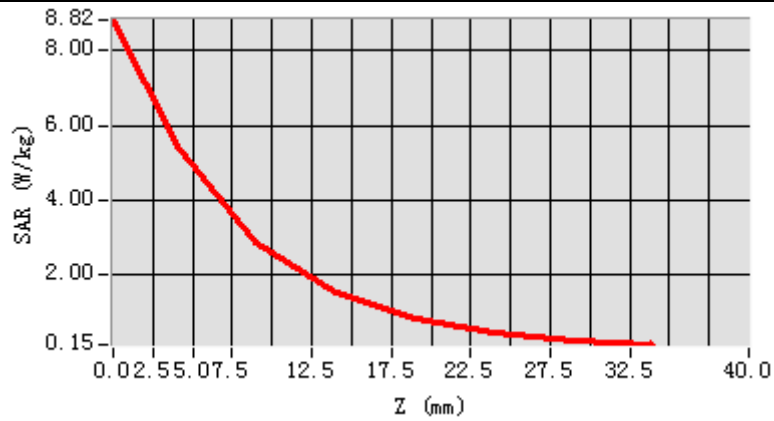
VOLUME SAR



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.391205
SAR 1g (W/Kg)	5.569267



MEASUREMENT 12

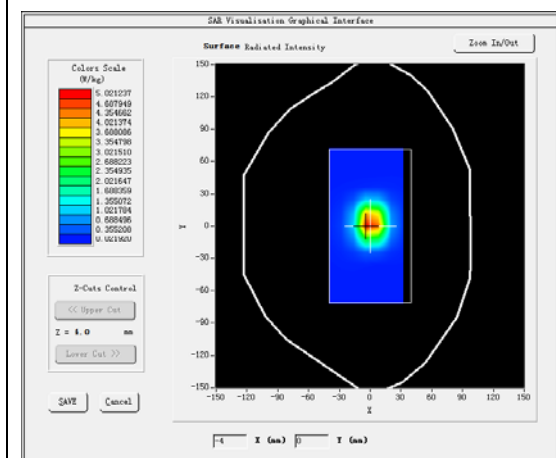
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

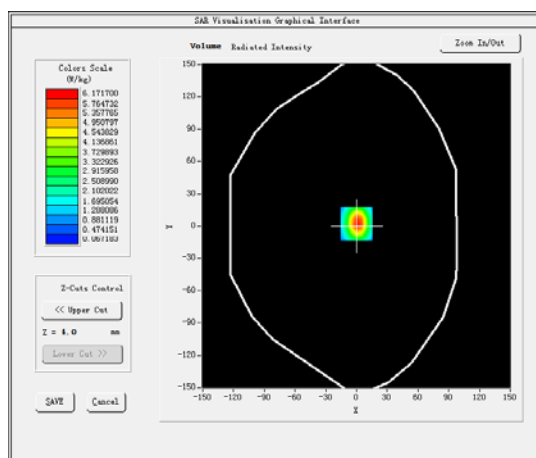
B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.462866
Relative permittivity (imaginary part)	15.380101
Conductivity (S/m)	2.223465
Variation (%)	-1.220000

SURFACE SAR



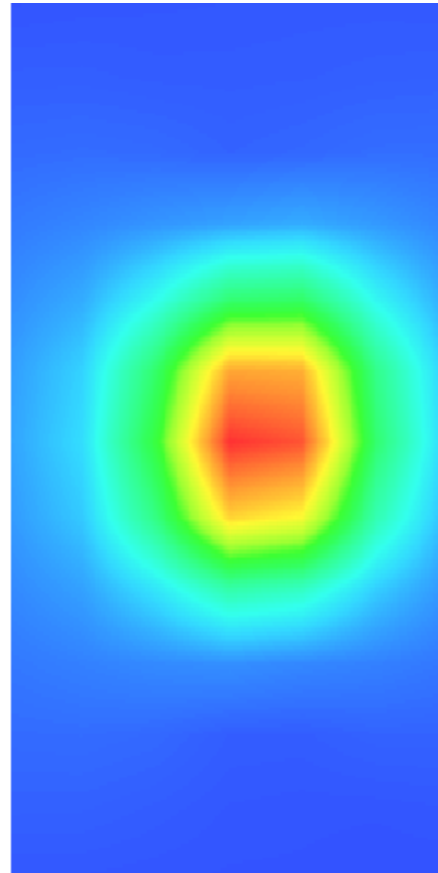
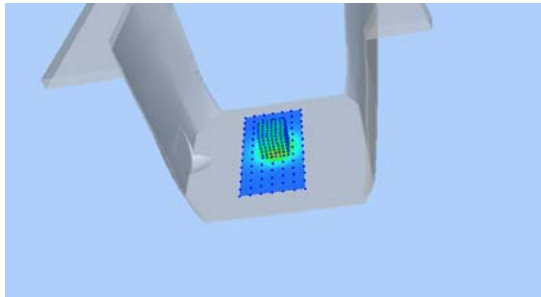
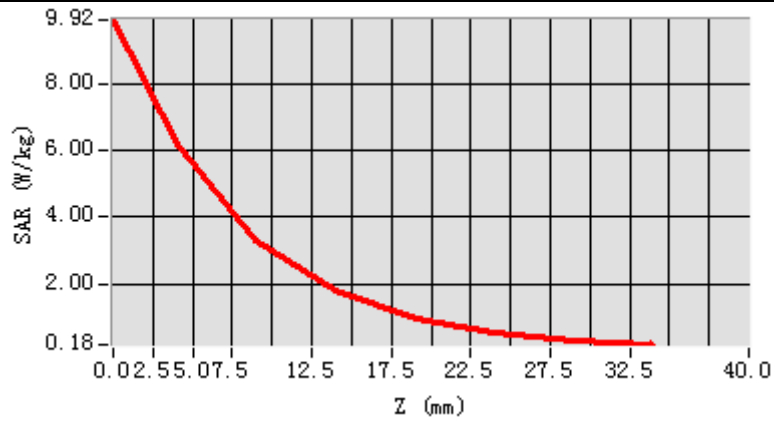
VOLUME SAR



Maximum location: X=0.00, Y=2.00

SAR Peak: 9.99 W/kg

SAR 10g (W/Kg)	2.304324
SAR 1g (W/Kg)	5.069188



MEASUREMENT 13

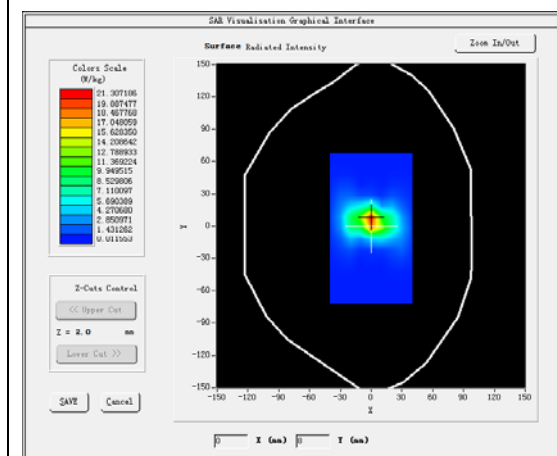
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5200</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

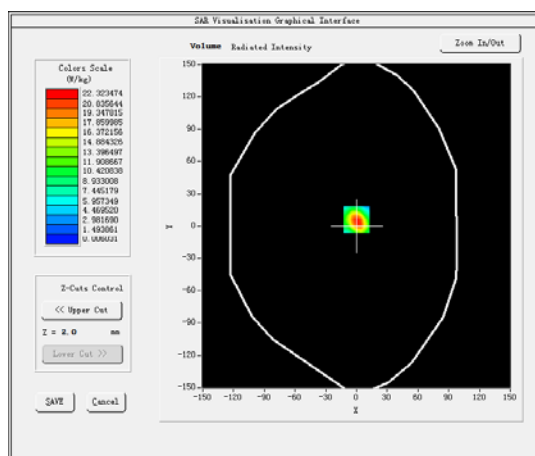
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.529980
Relative permittivity (imaginary part)	16.221619
Conductivity (S/m)	4.686246
Variation (%)	1.660000

SURFACE SAR



VOLUME SAR

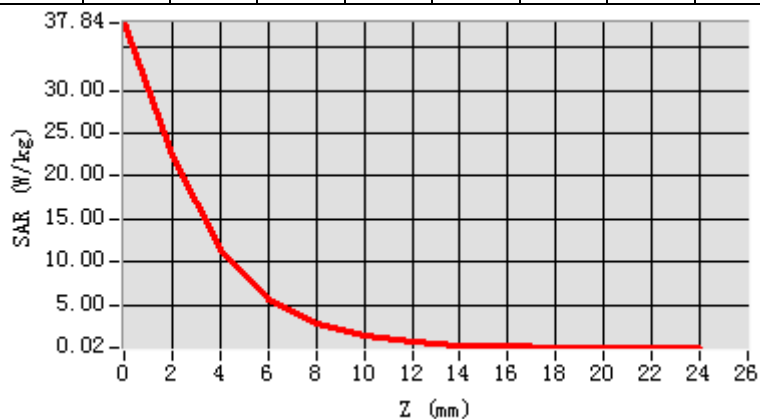


Maximum location: X=0.00, Y=6.00

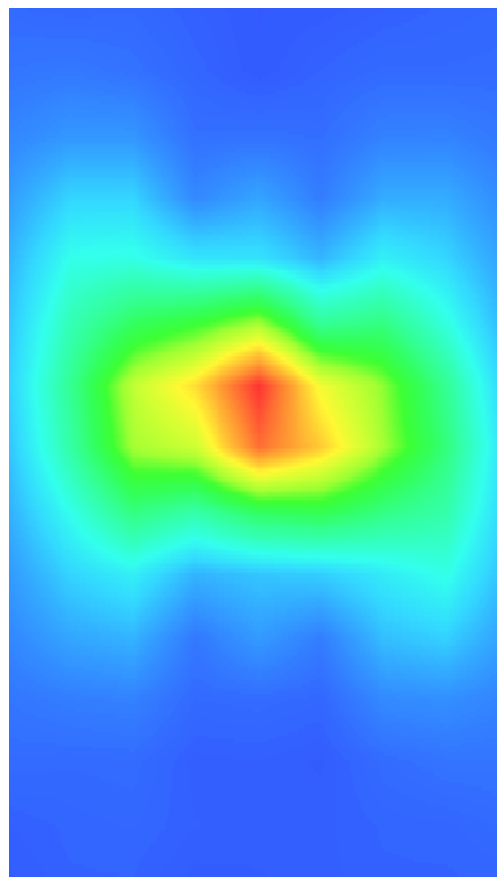
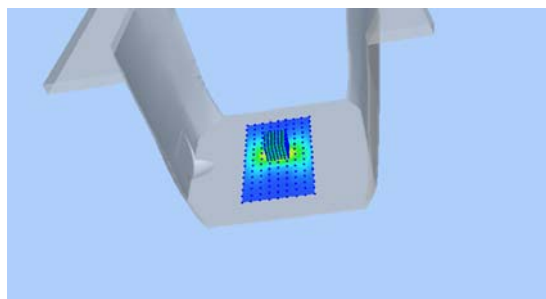
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.698495
SAR 1g (W/Kg)	15.685221

Z (mm)	SAR (W/kg)
0	37.84
2	22.00
4	11.00
6	5.00
8	2.50
10	1.20
12	0.60
14	0.30
16	0.15
18	0.08
20	0.04
22	0.02
24	0.02
26	0.02



Hot spot position



MEASUREMENT 14

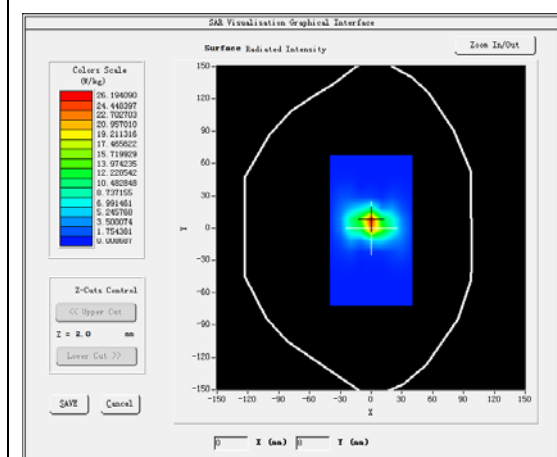
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5200</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

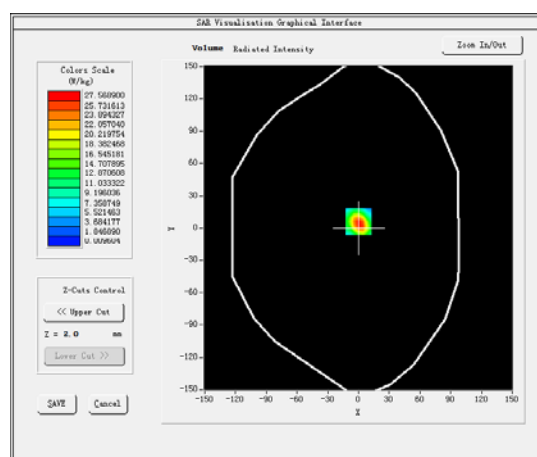
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.519539
Relative permittivity (imaginary part)	18.400510
Conductivity (S/m)	5.314258
Variation (%)	4.490000

SURFACE SAR



VOLUME SAR

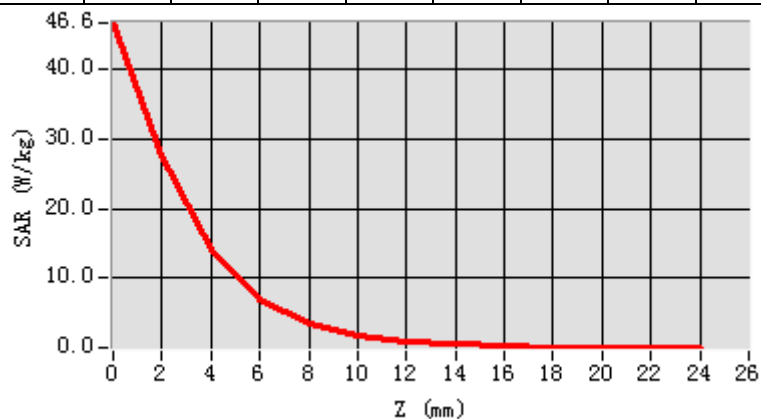


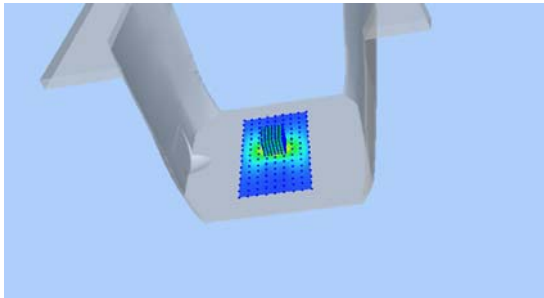
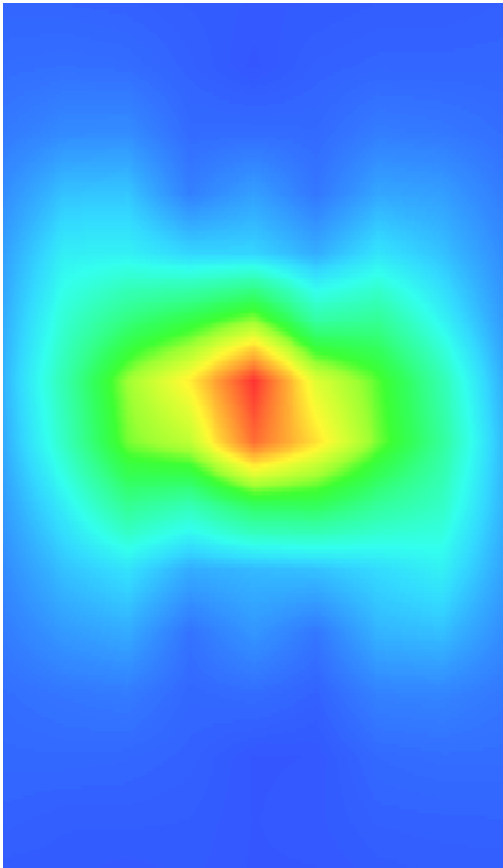
Maximum location: X=0.00, Y=6.00

SAR Peak: 49.61 W/kg

SAR 10g (W/Kg)	5.486184
SAR 1g (W/Kg)	15.563246

Figure 10 is a line graph showing the variation of SAR (W/kg) with Z (mm) for the 100 MHz case. The y-axis represents SAR (W/kg) and ranges from 0.0 to 46.6. The x-axis represents Z (mm) and ranges from 0 to 26. The SAR value starts at approximately 46.6 W/kg at Z=0 and decreases rapidly, reaching near zero by Z=12 mm.



3D screen shot	Hot spot position
 A 3D perspective view of a white robotic arm. The gripper at the end of the arm is holding a square grid of small blue cubes. A hot spot visualization is overlaid on this grid, showing a central red area that transitions through yellow and green to blue at the edges, indicating a concentration of activity or heat in the center of the gripper's surface.	 A 2D heatmap visualization of the hot spot position. The image shows a central red area, which is the hottest point, surrounded by concentric rings of yellow, green, and blue. The blue areas represent the coolest regions, indicating a clear gradient of intensity from the center outwards.

MEASUREMENT 15

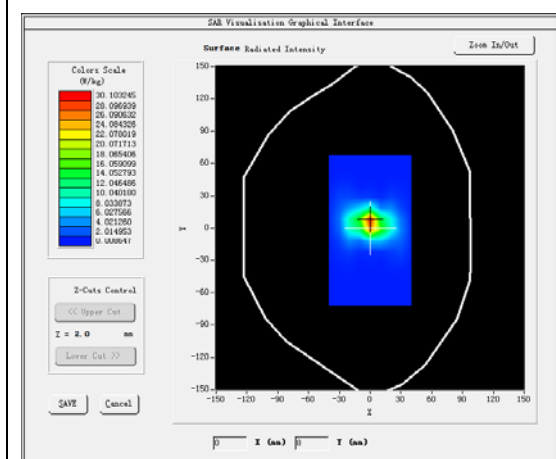
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

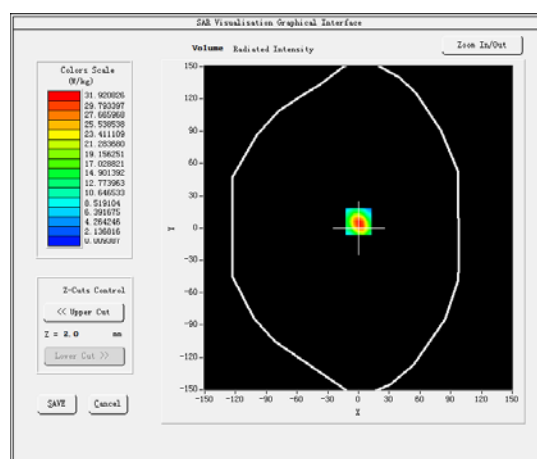
B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.441512
Relative permittivity (imaginary part)	16.263082
Conductivity (S/m)	5.240981
Variation (%)	1.880000

SURFACE SAR



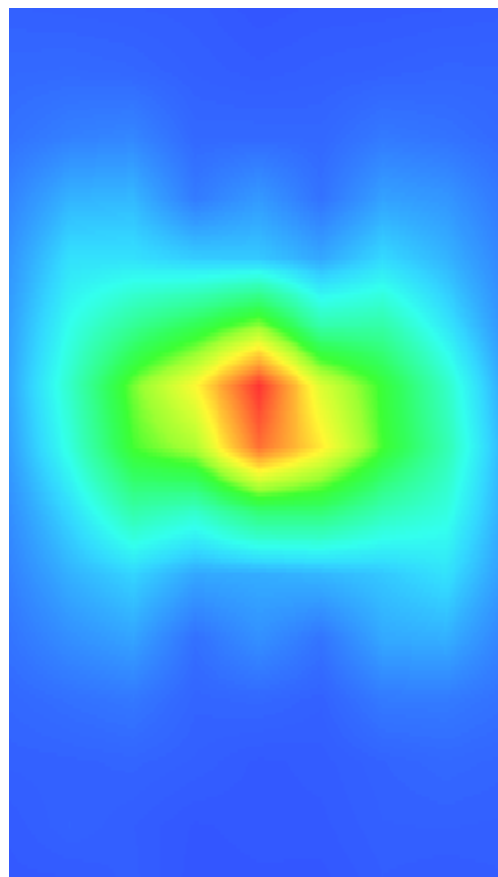
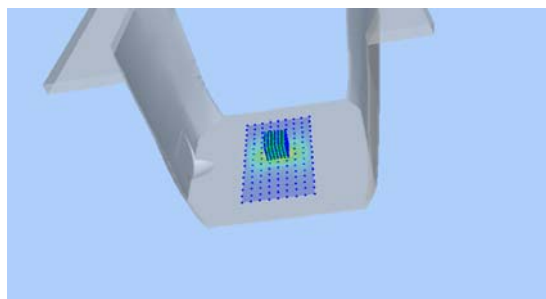
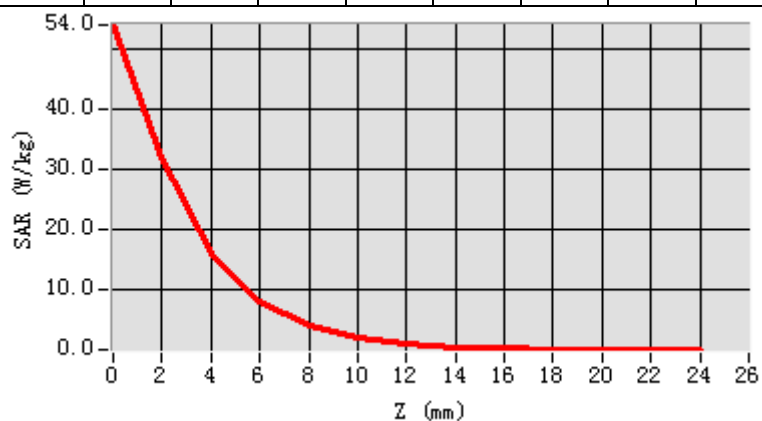
VOLUME SAR



Maximum location: X=0.00, Y=6.00

SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	6.283095
SAR 1g (W/Kg)	18.109093



MEASUREMENT 16

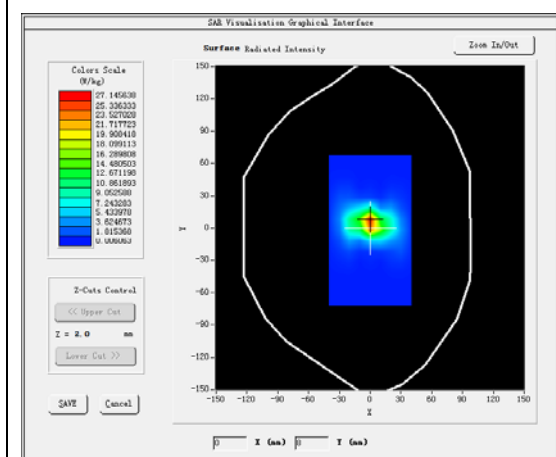
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Dipole</u>
<u>Band</u>	<u>CW5800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CW (Crest factor: 1.0)</u>

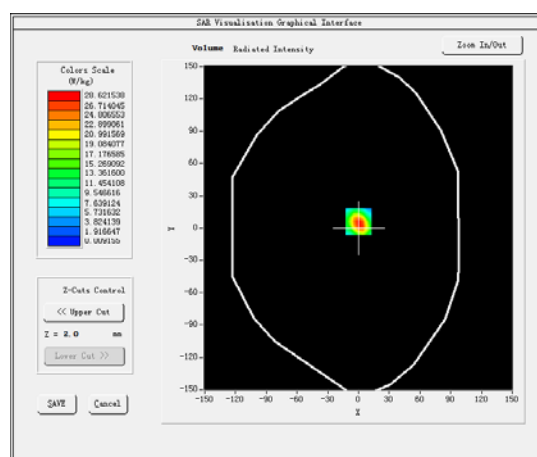
B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	48.210523
Relative permittivity (imaginary part)	18.920043
Conductivity (S/m)	6.101524
Variation (%)	1.340000

SURFACE SAR



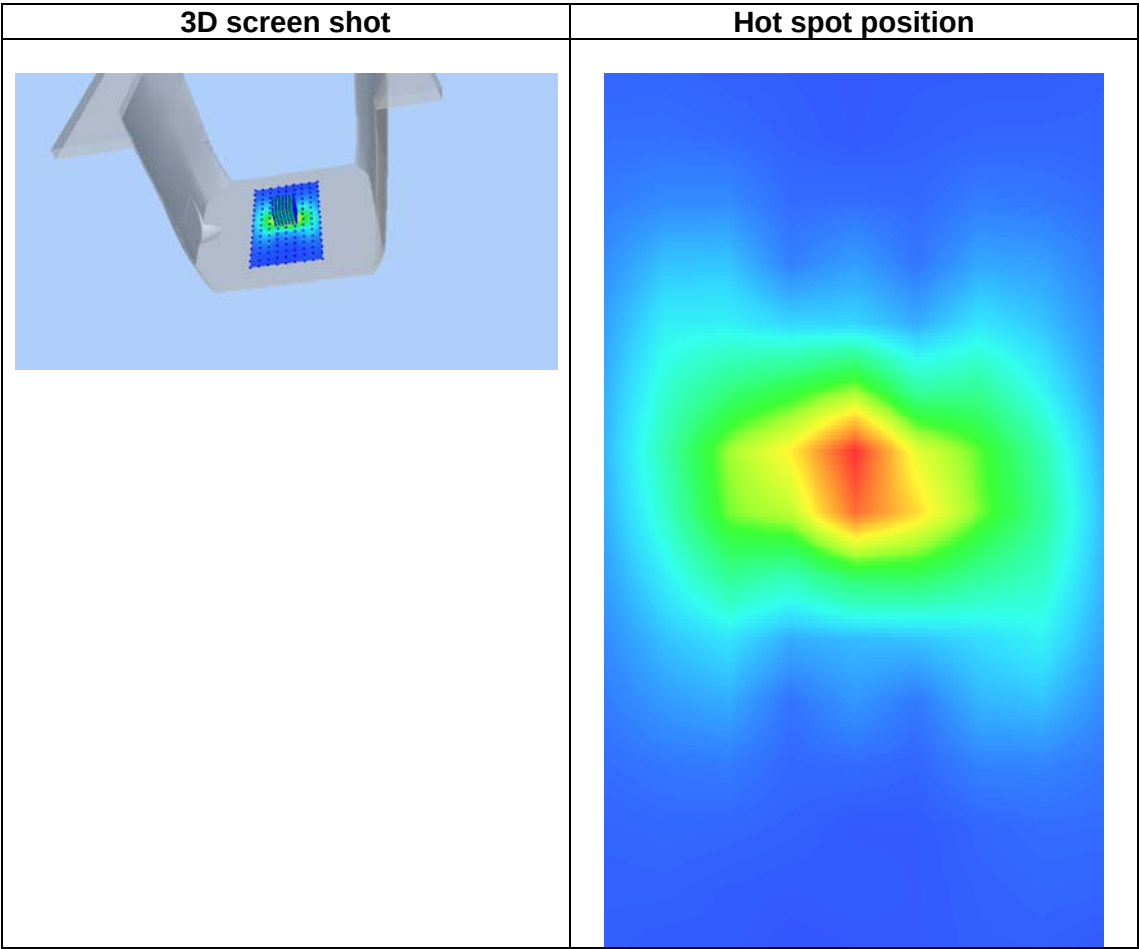
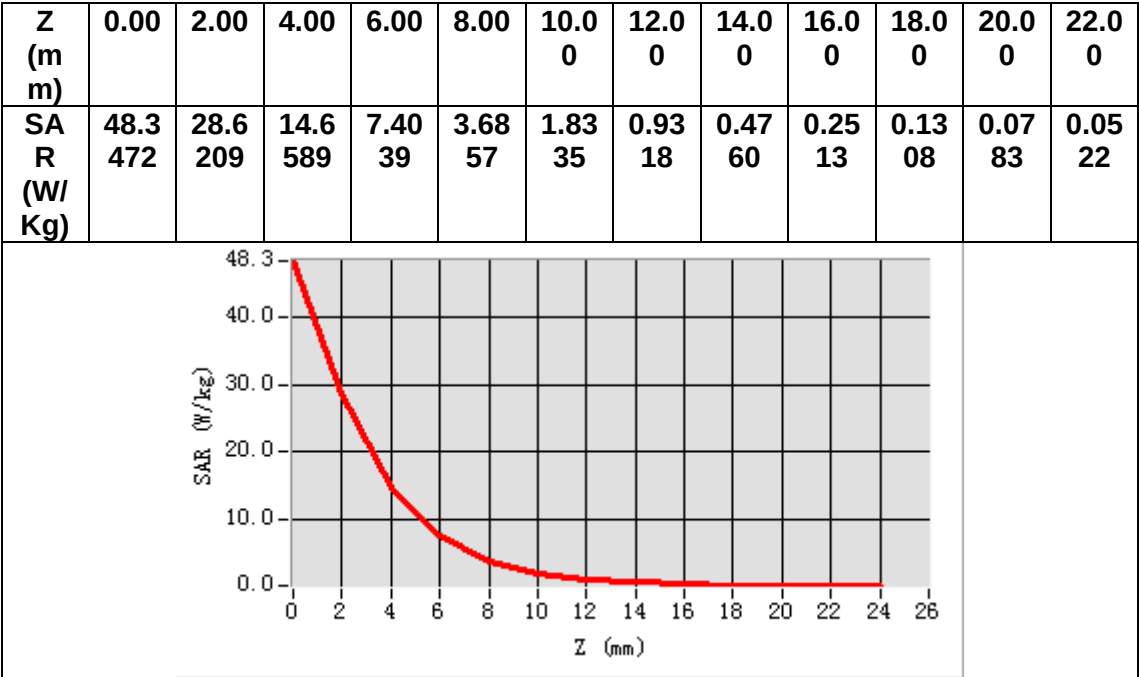
VOLUME SAR



Maximum location: X=0.00, Y=6.00

SAR Peak: 51.30 W/kg

SAR 10g (W/Kg)	5.507184
SAR 1g (W/Kg)	16.780052



13. Appendix C. Plots of High SAR Measurement

Table of contents
MEASUREMENT 1 GSM 850 Head
MEASUREMENT 2 GSM 850 Body
MEASUREMENT 3 GSM 1900 Head
MEASUREMENT 4 GSM 1900 Body
MEASUREMENT 5 WCDMA Band 2 Head
MEASUREMENT 6 WCDMA Band 2 Body
MEASUREMENT 7 WCDMA Band 4 Head
MEASUREMENT 8 WCDMA Band 4 Body
MEASUREMENT 9 WCDMA Band 5 Head
MEASUREMENT 10 WCDMA Band 5 Body
MEASUREMENT 11 CDMA Band BC0 Head
MEASUREMENT 12 CDMA Band BC0 Body
MEASUREMENT 13 CDMA Band BC1 Head
MEASUREMENT 14 CDMA Band BC1 Body
MEASUREMENT 15 WLAN 2.4G Head
MEASUREMENT 16 WLAN 2.4G Body
MEASUREMENT 17 WLAN 5.2G Head
MEASUREMENT 18 WLAN 5.2G Body
MEASUREMENT 19 WLAN 5.8G Head
MEASUREMENT 20 WLAN 5.8G Body
MEASUREMENT 21 LTE Band 2 Head
MEASUREMENT 22 LTE Band 2 Body
MEASUREMENT 23 LTE Band 4 Head
MEASUREMENT 24 LTE Band 4 Body
MEASUREMENT 25 LTE Band 5 Head
MEASUREMENT 26 LTE Band 5 Body
MEASUREMENT 27 LTE Band 7 Head
MEASUREMENT 28 LTE Band 7 Body
MEASUREMENT 29 LTE Band 17 Head
MEASUREMENT 30 LTE Band 17 Body
MEASUREMENT 31 LTE Band 66 Head
MEASUREMENT 32 LTE Band 66 Body

MEASUREMENT 1

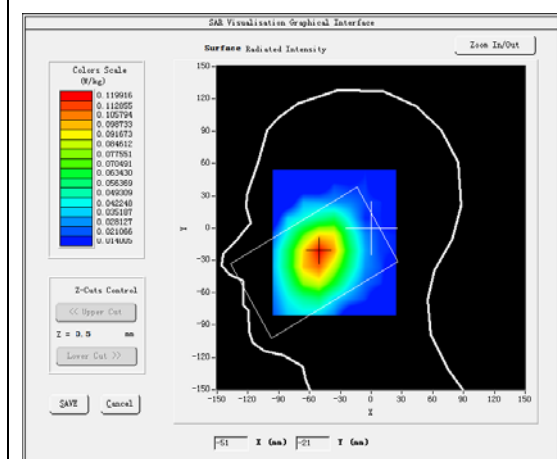
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

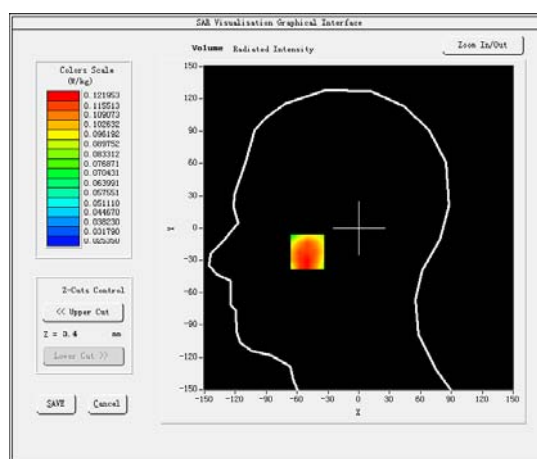
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	40.300961
Relative permittivity (imaginary part)	20.061541
Conductivity (S/m)	0.932193
Variation (%)	1.780000

SURFACE SAR



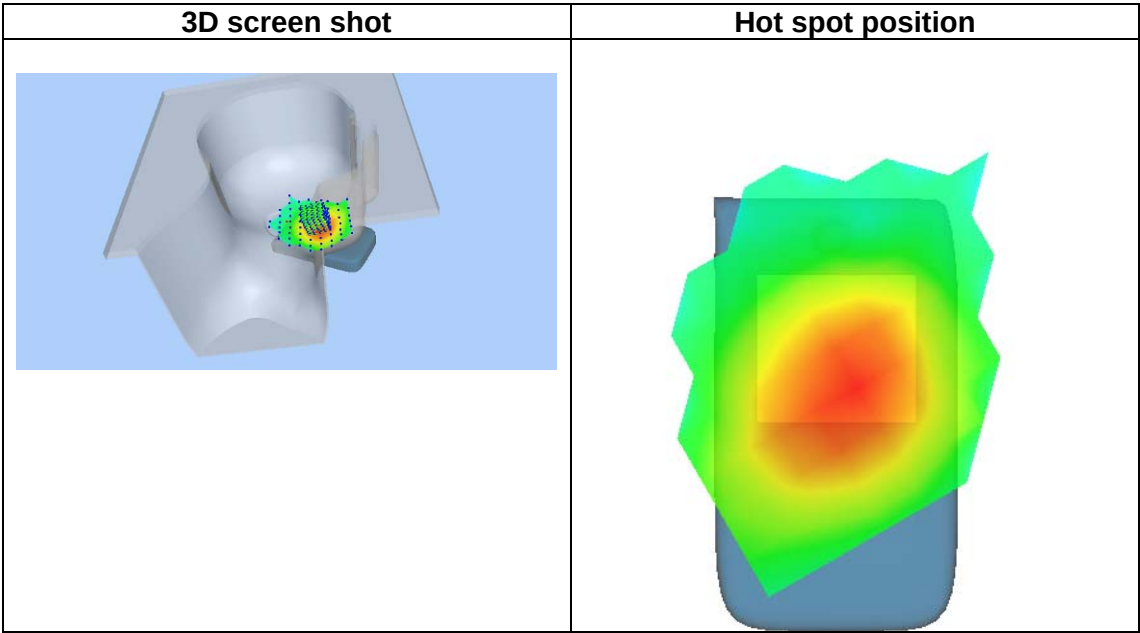
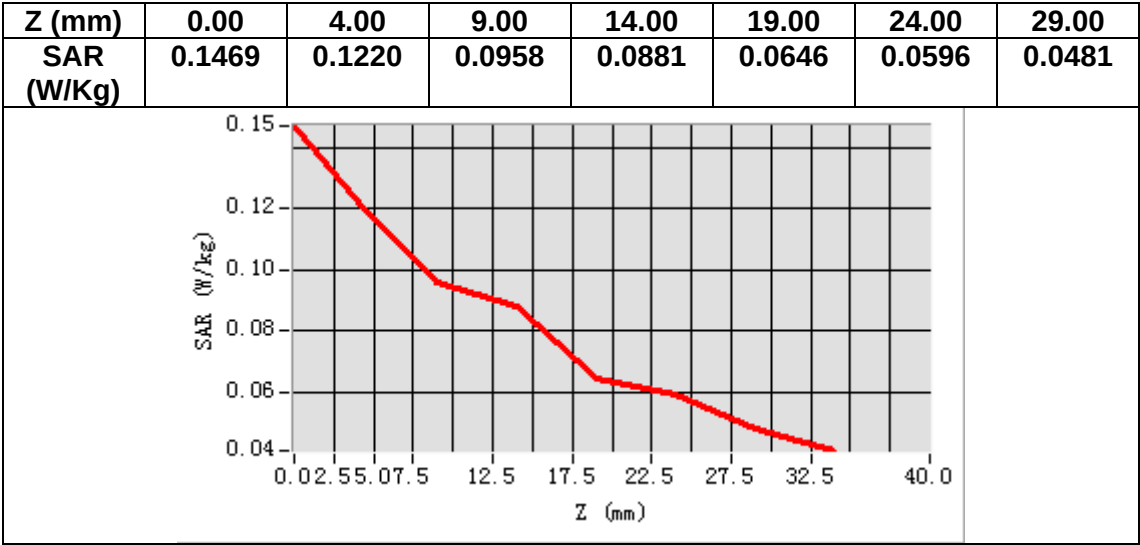
VOLUME SAR



Maximum location: X=-50.00, Y=-22.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.094440
SAR 1g (W/Kg)	0.123400



MEASUREMENT 2

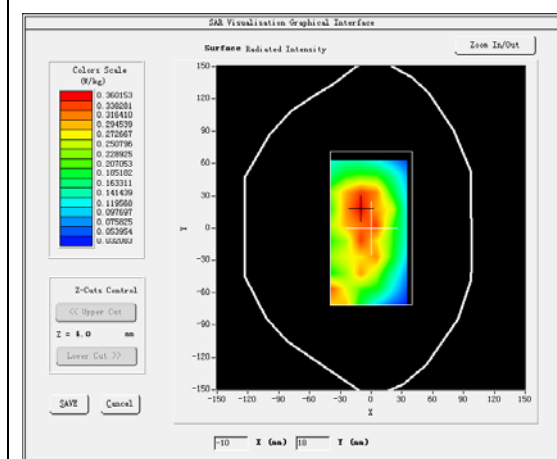
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

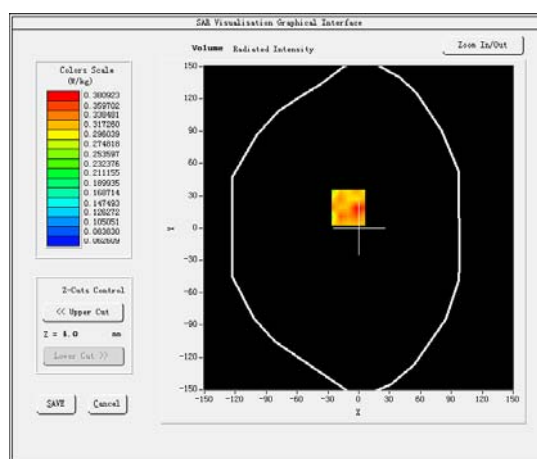
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	54.359581
Relative permittivity (imaginary part)	21.382740
Conductivity (S/m)	0.993585
Variation (%)	-4.750000

SURFACE SAR



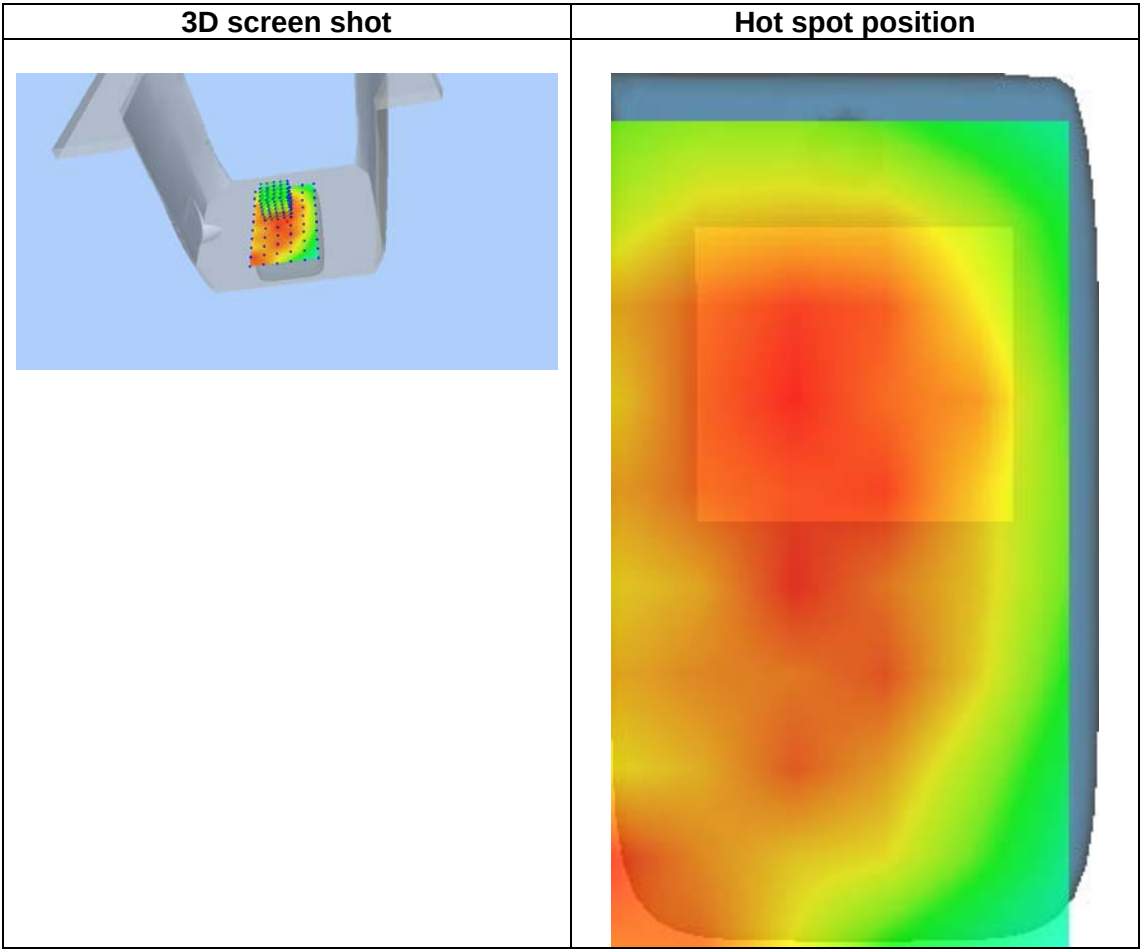
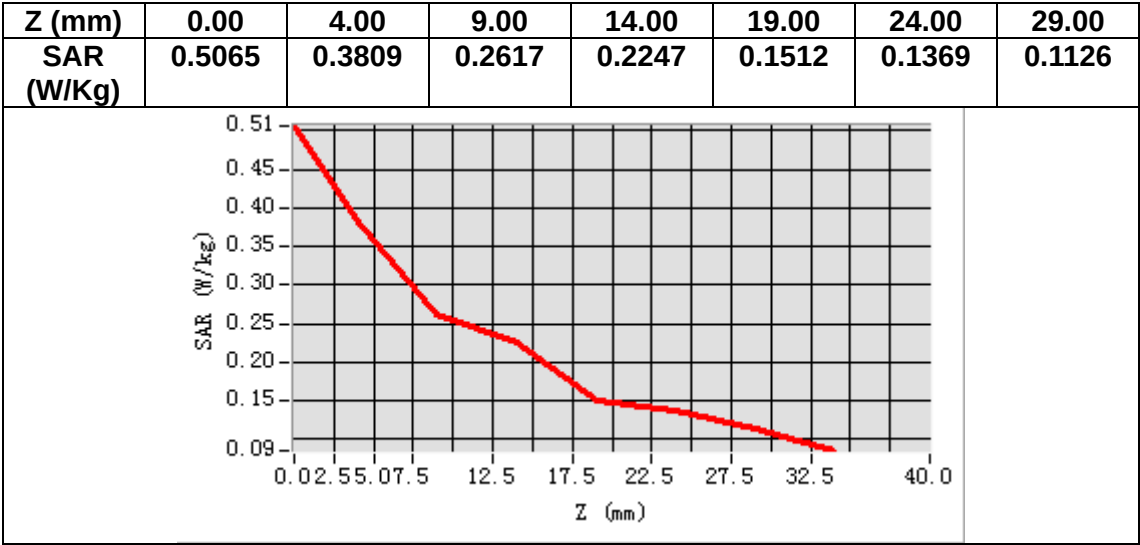
VOLUME SAR



Maximum location: X=-10.00, Y=19.00

SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.259691
SAR 1g (W/Kg)	0.374619



MEASUREMENT 3

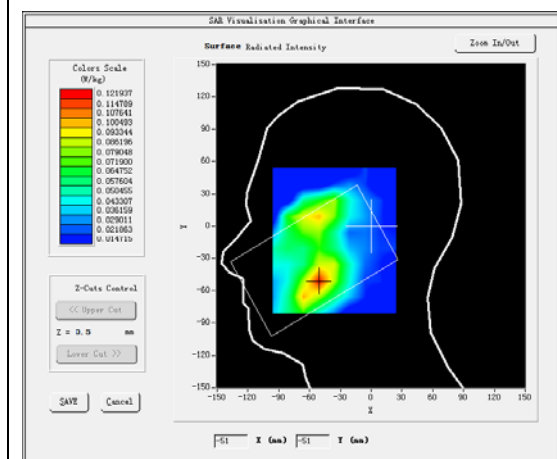
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.0)</u>

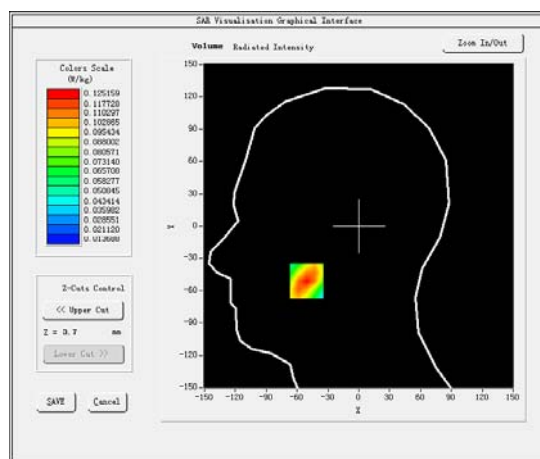
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.898201
Relative permittivity (imaginary part)	13.744300
Conductivity (S/m)	1.435516
Variation (%)	-4.870000

SURFACE SAR



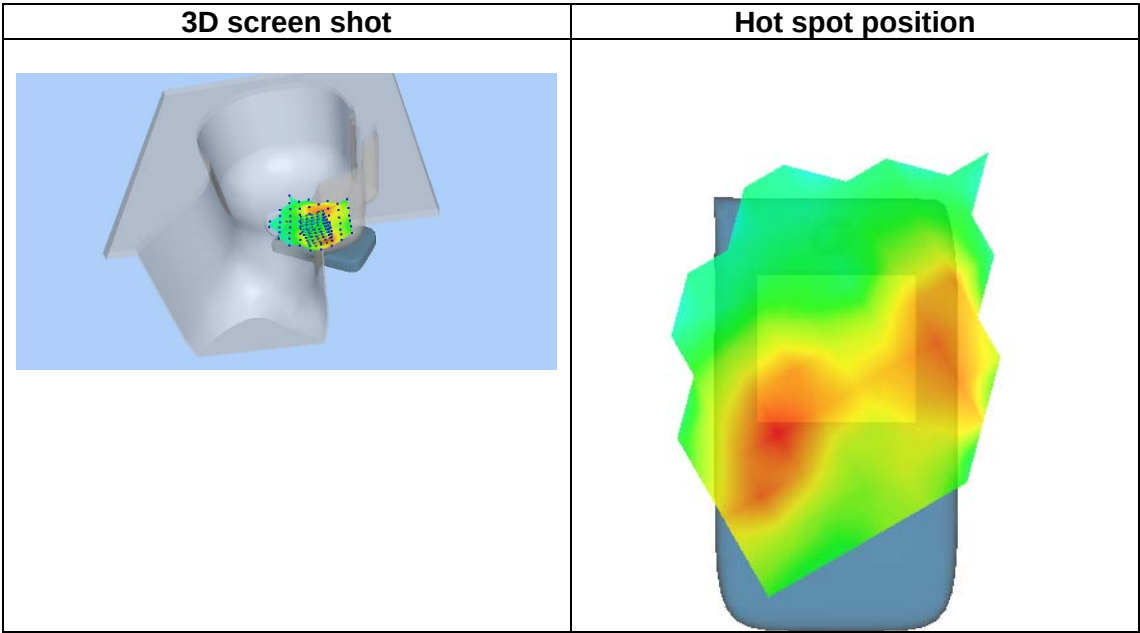
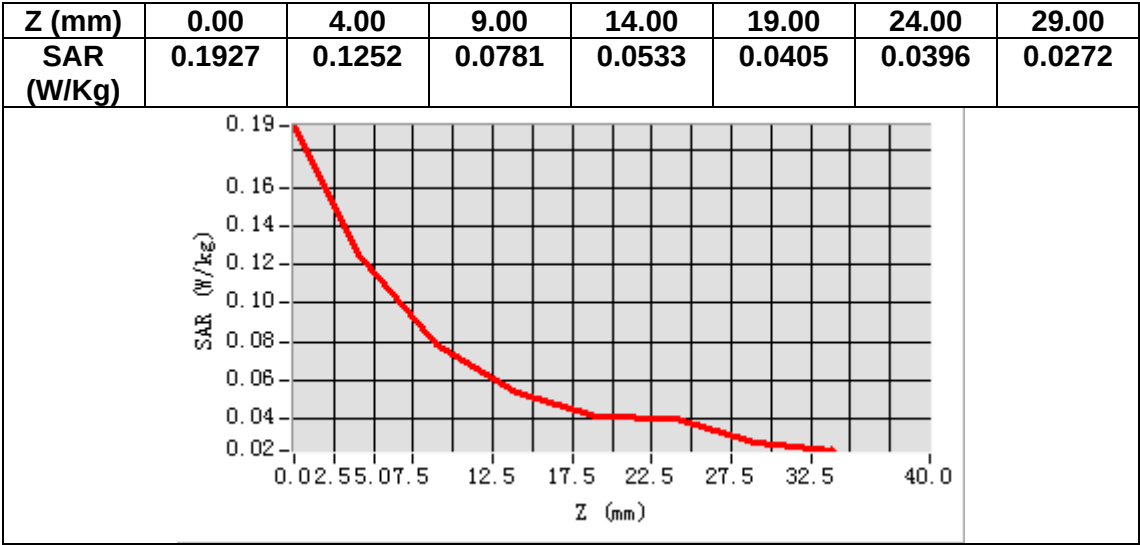
VOLUME SAR



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

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.075267
SAR 1g (W/Kg)	0.121148



MEASUREMENT 4

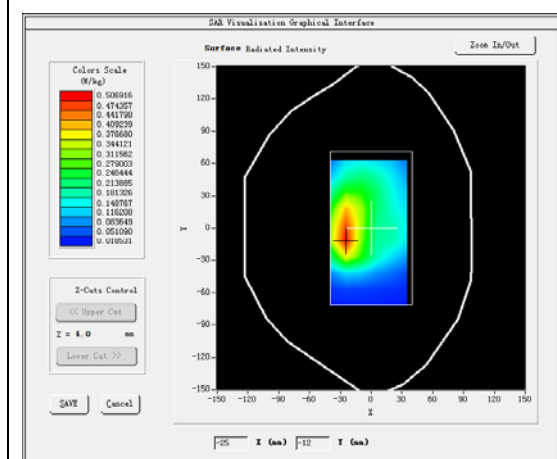
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

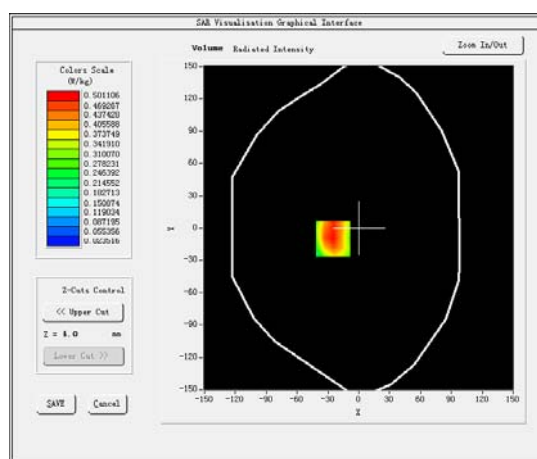
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.538898
Relative permittivity (imaginary part)	14.657700
Conductivity (S/m)	1.530915
Variation (%)	-1.020000

SURFACE SAR



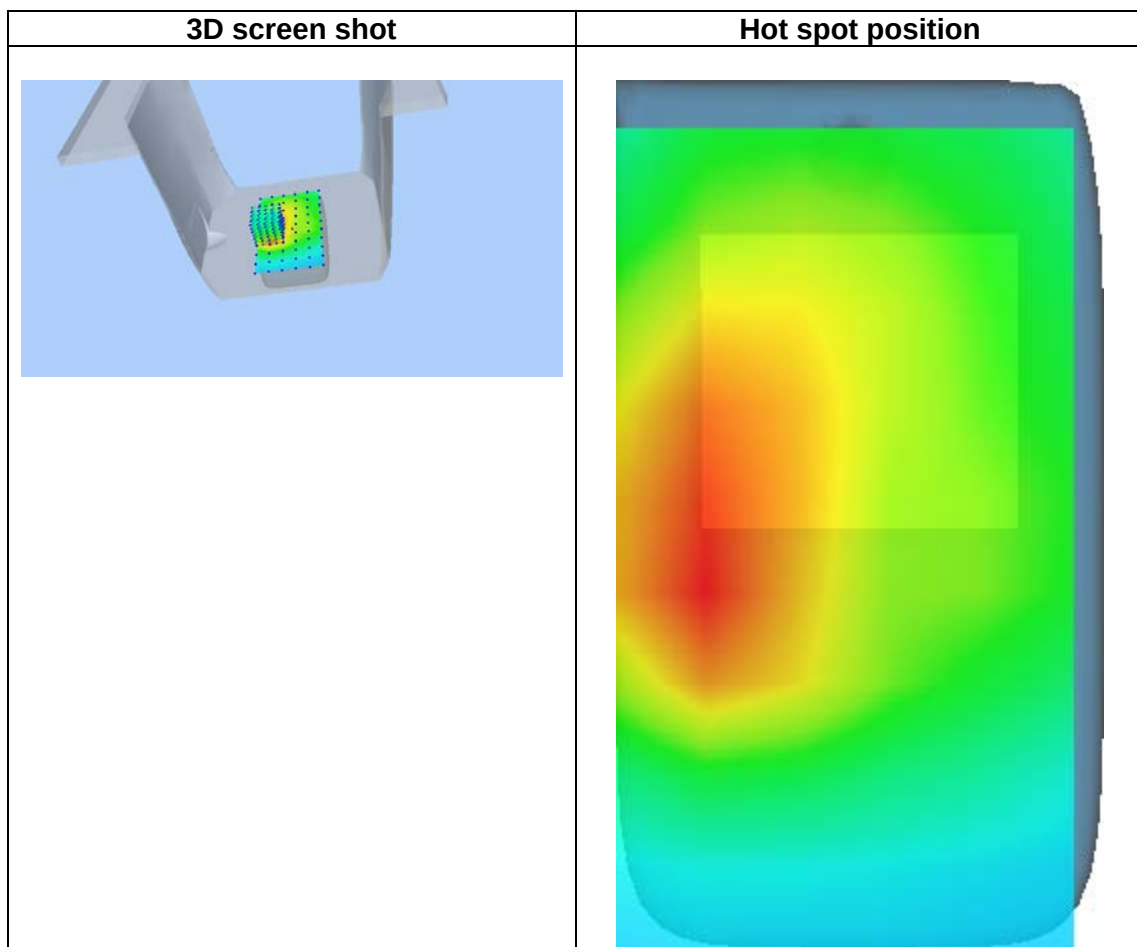
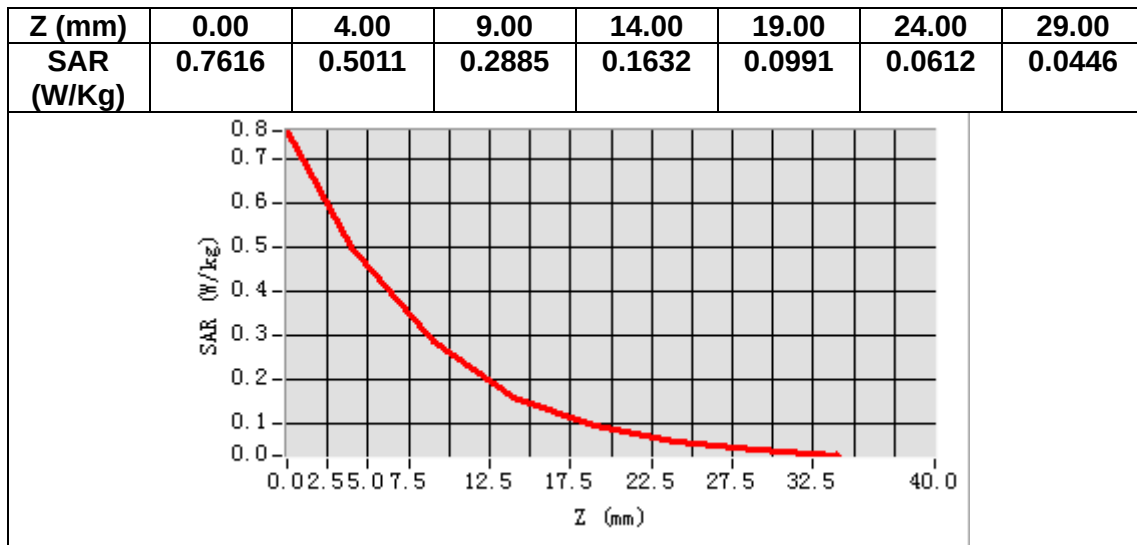
VOLUME SAR



Maximum location: X=-25.00, Y=-10.00

SAR Peak: 0.77 W/kg

SAR 10g (W/Kg)	0.275854
SAR 1g (W/Kg)	0.485210



MEASUREMENT 5

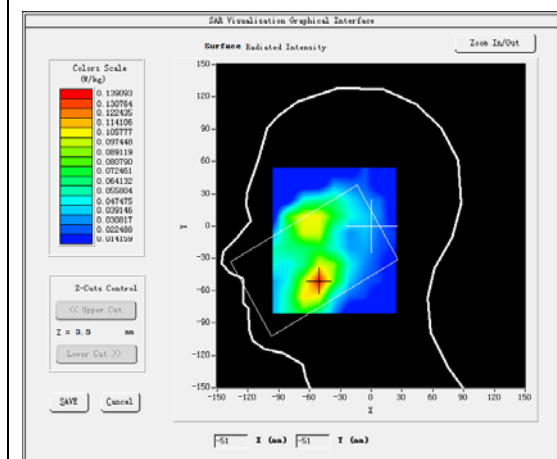
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

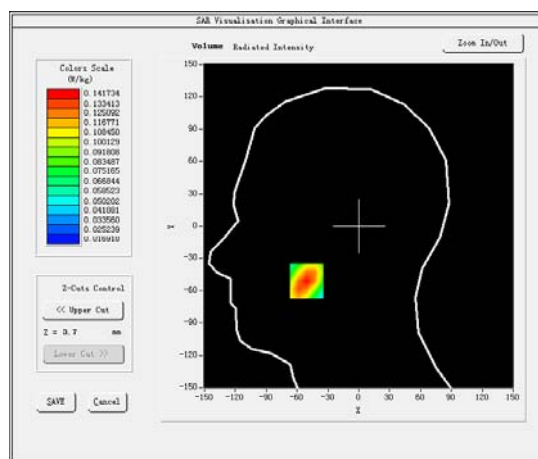
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.898201
Relative permittivity (imaginary part)	13.744300
Conductivity (S/m)	1.435516
Variation (%)	-0.360000

SURFACE SAR



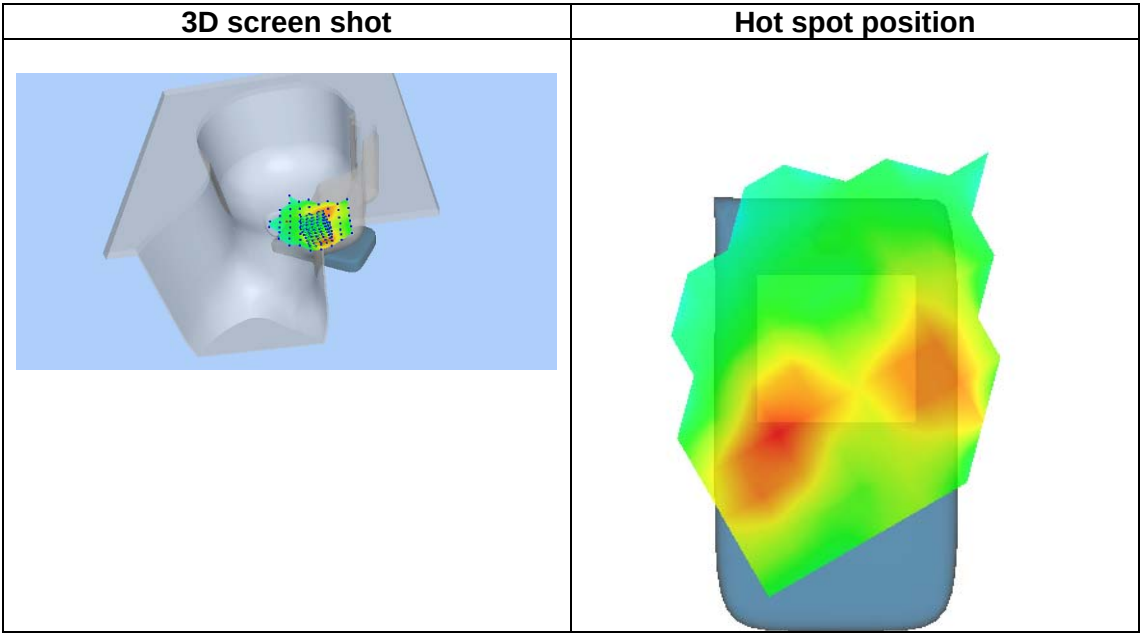
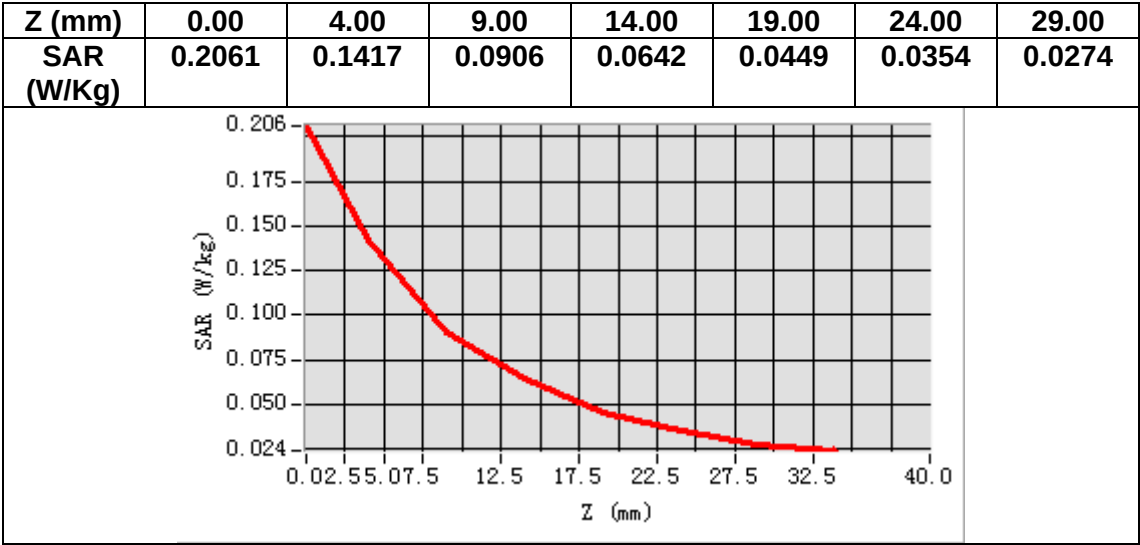
VOLUME SAR



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

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.084681
SAR 1g (W/Kg)	0.136688



MEASUREMENT 6

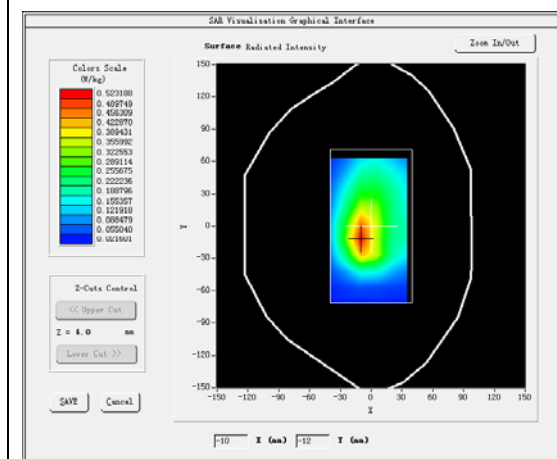
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2 WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

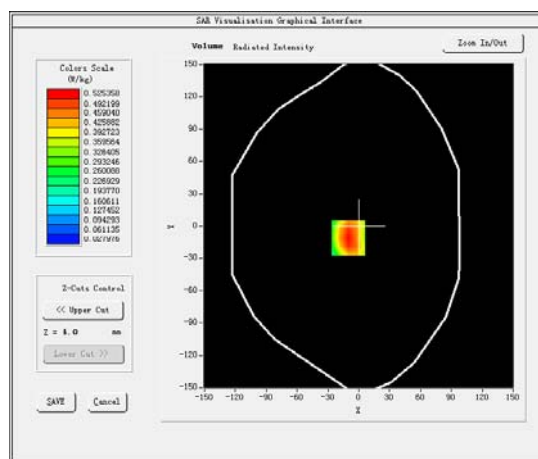
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.538898
Relative permittivity (imaginary part)	14.657700
Conductivity (S/m)	1.530915
Variation (%)	-0.470000

SURFACE SAR



VOLUME SAR

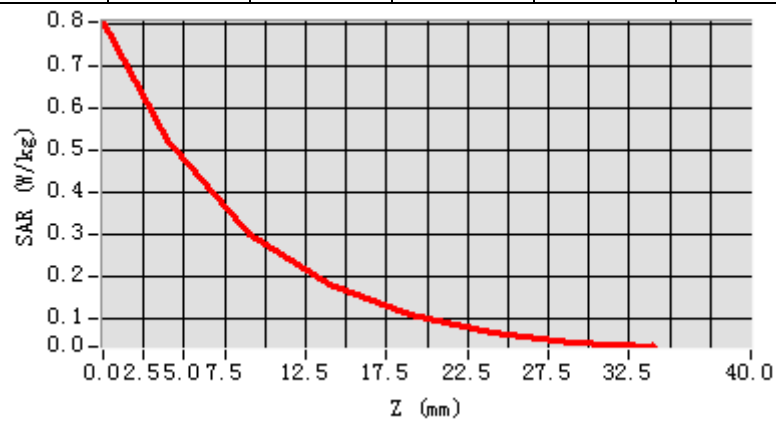


Maximum location: X=-10.00, Y=-11.00

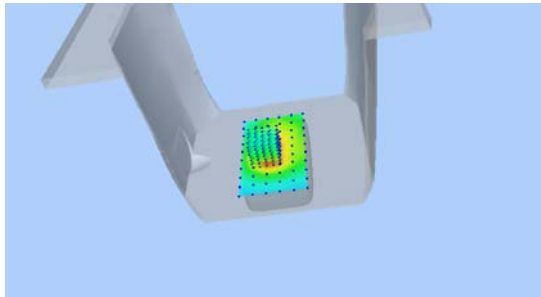
SAR Peak: 0.81 W/kg

SAR 10g (W/Kg)	0.289830
SAR 1g (W/Kg)	0.508152

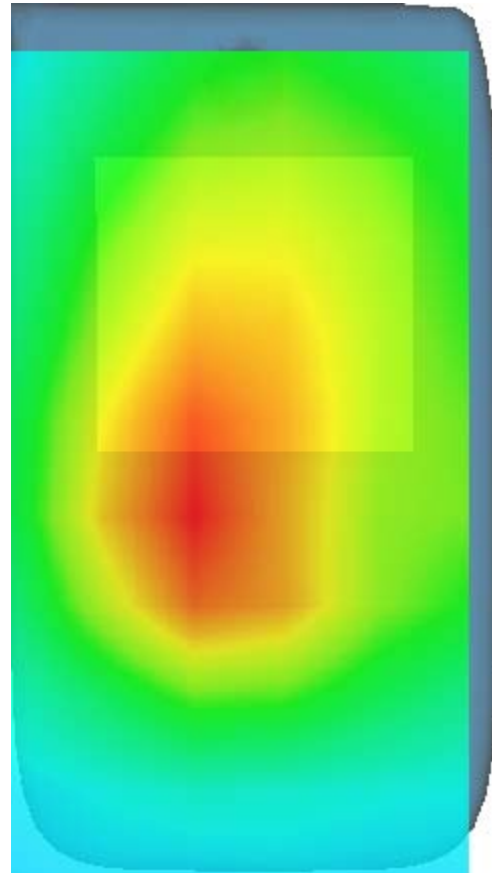
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8065	0.5254	0.3038	0.1812	0.1107	0.0707	0.0465



3D screen shot



Hot spot position



MEASUREMENT 7

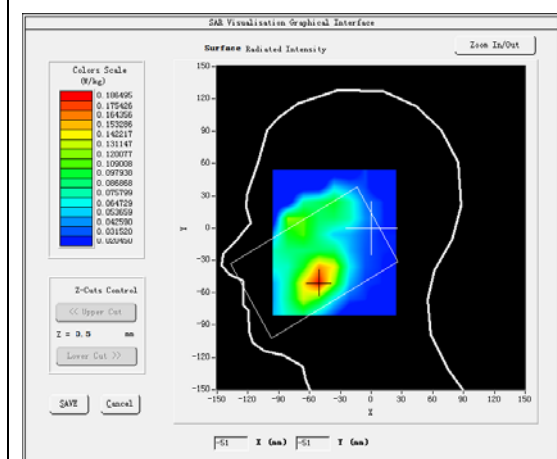
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

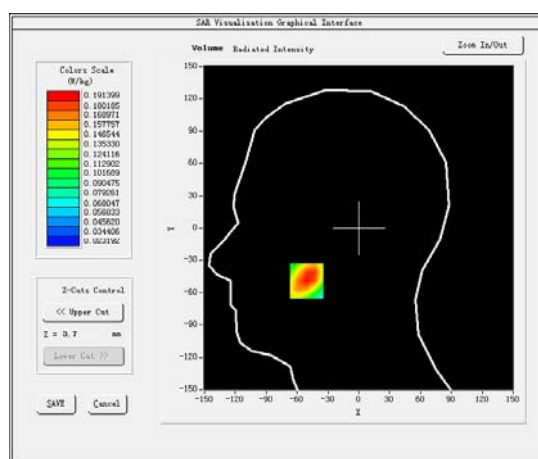
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	38.757389
Relative permittivity (imaginary part)	14.125742
Conductivity (S/m)	1.359210
Variation (%)	0.030000

SURFACE SAR



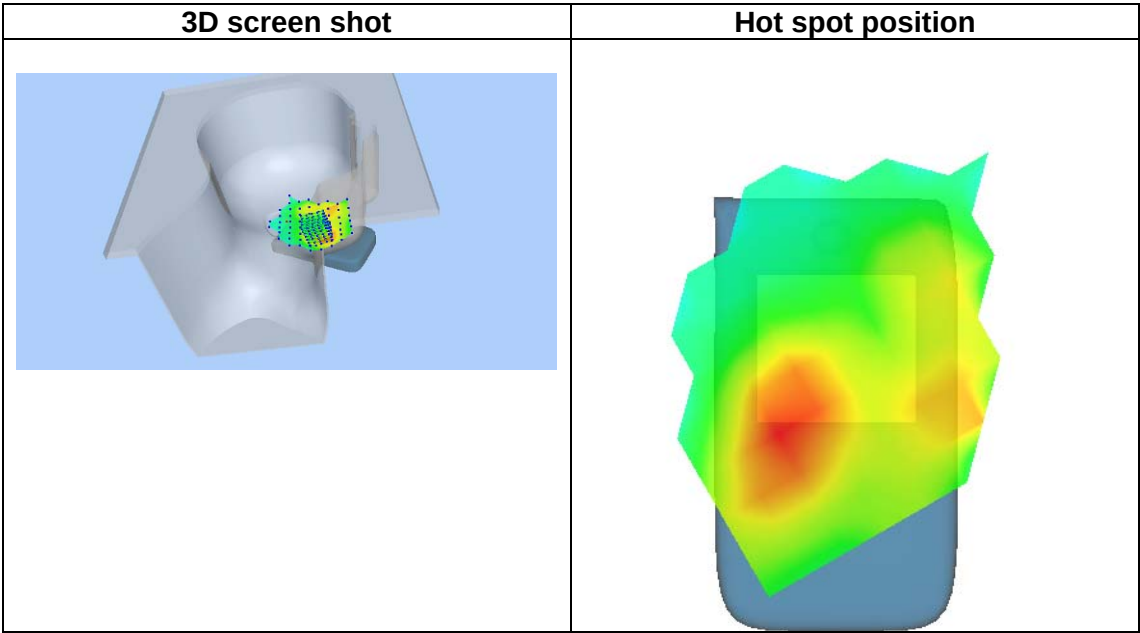
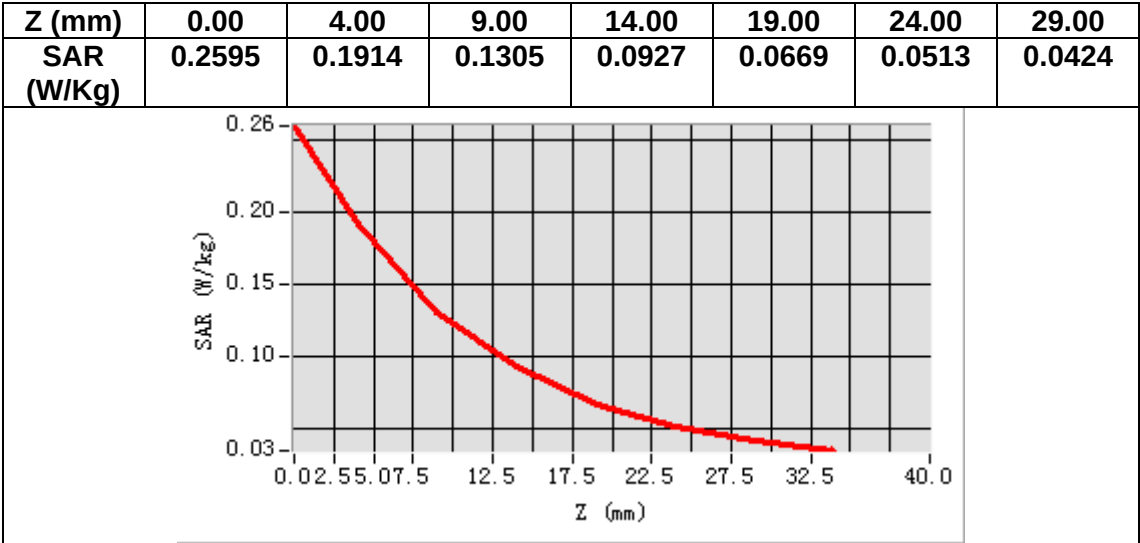
VOLUME SAR



Maximum location: X=-51.00, Y=-49.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.119168
SAR 1g (W/Kg)	0.185977



MEASUREMENT 8

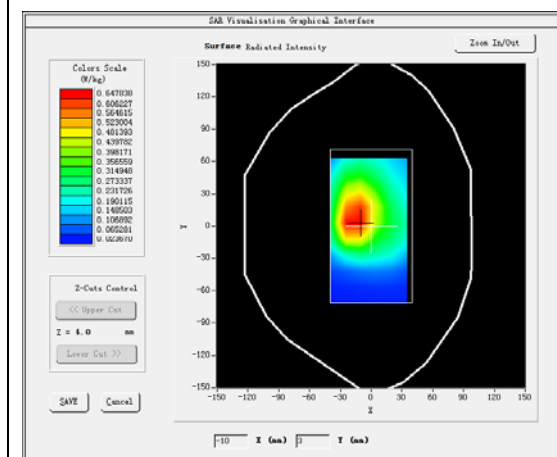
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band4 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

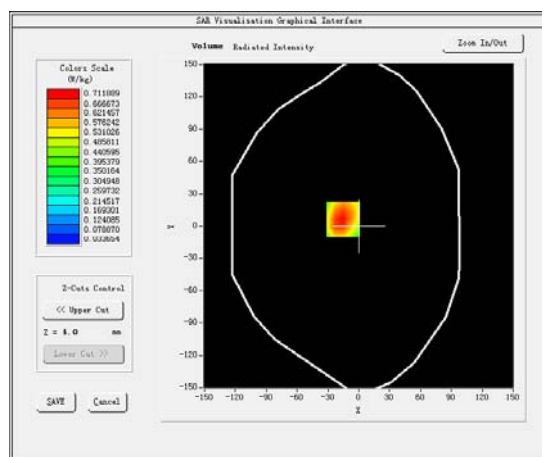
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	53.356167
Relative permittivity (imaginary part)	15.621370
Conductivity (S/m)	1.503123
Variation (%)	-0.380000

SURFACE SAR



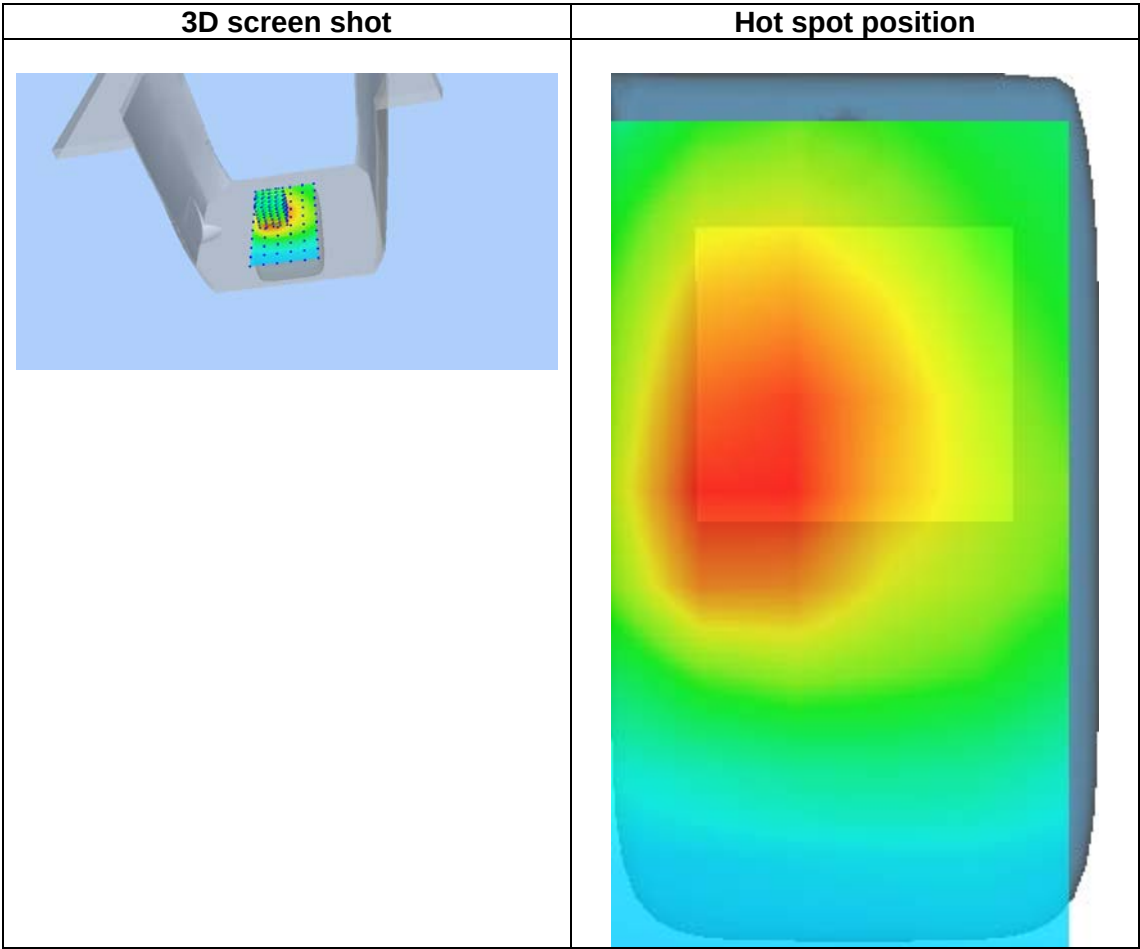
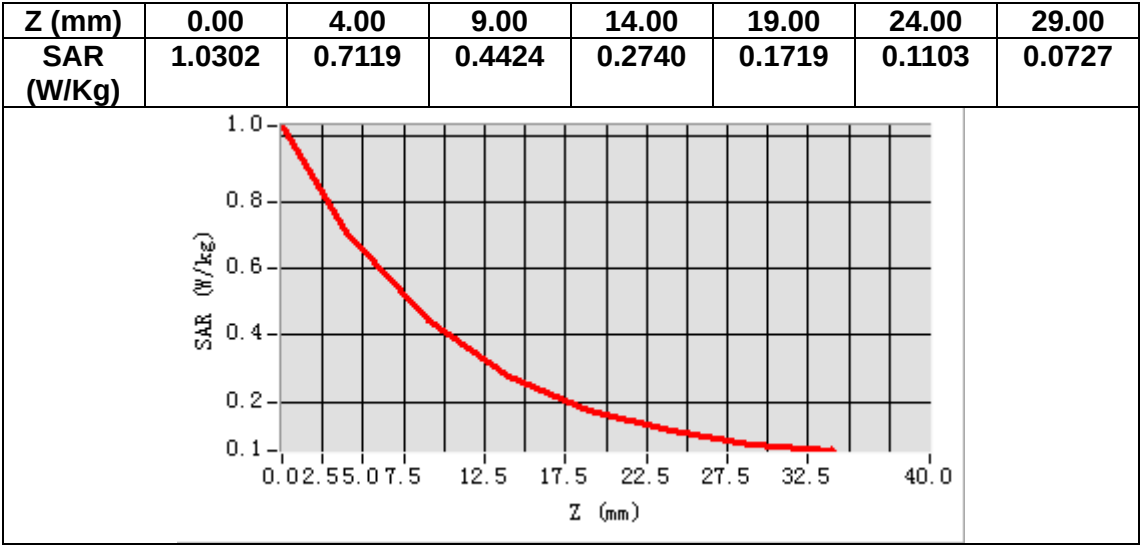
VOLUME SAR



Maximum location: X=-15.00, Y=6.00

SAR Peak: 1.05 W/kg

SAR 10g (W/Kg)	0.414339
SAR 1g (W/Kg)	0.693682



MEASUREMENT 9

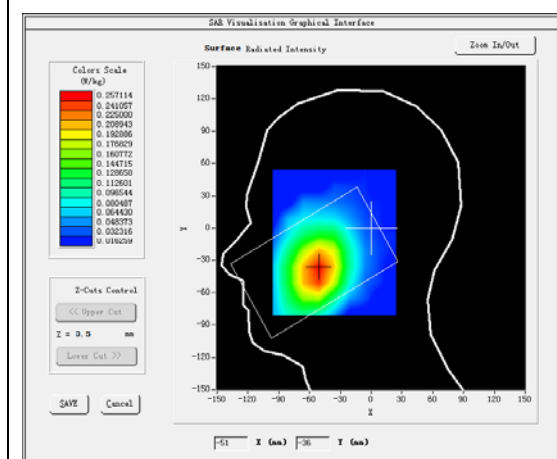
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

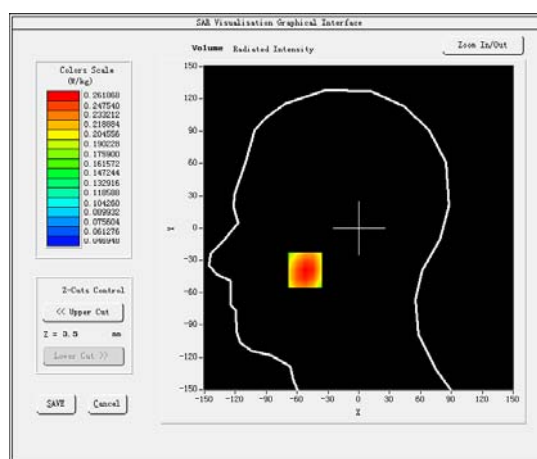
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	40.250961
Relative permittivity (imaginary part)	20.231541
Conductivity (S/m)	0.940092
Variation (%)	2.610000

SURFACE SAR



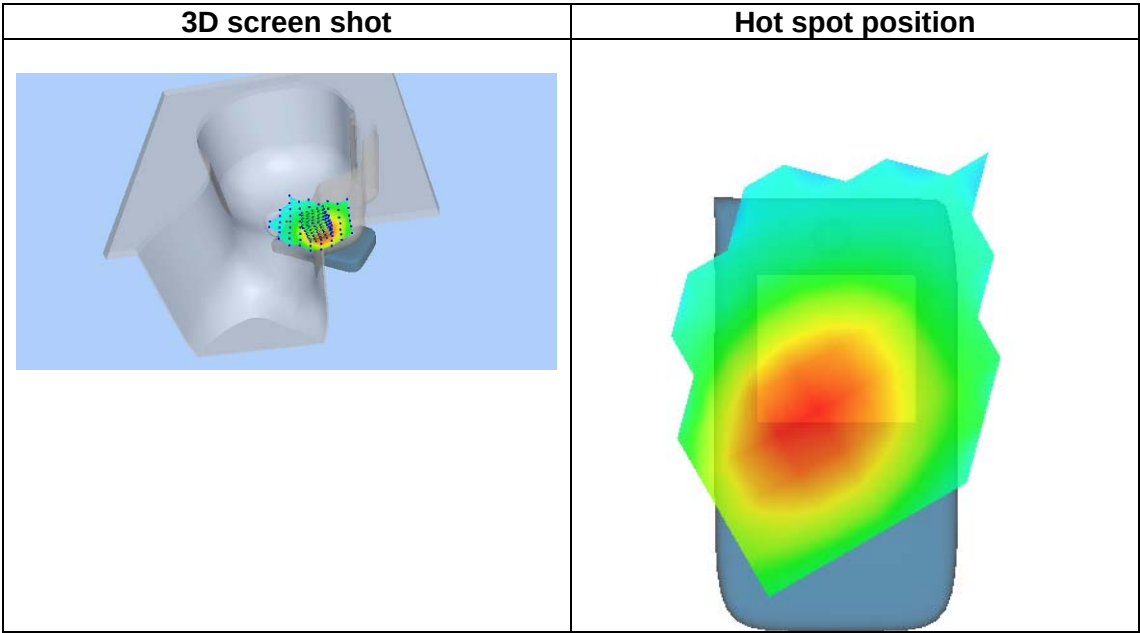
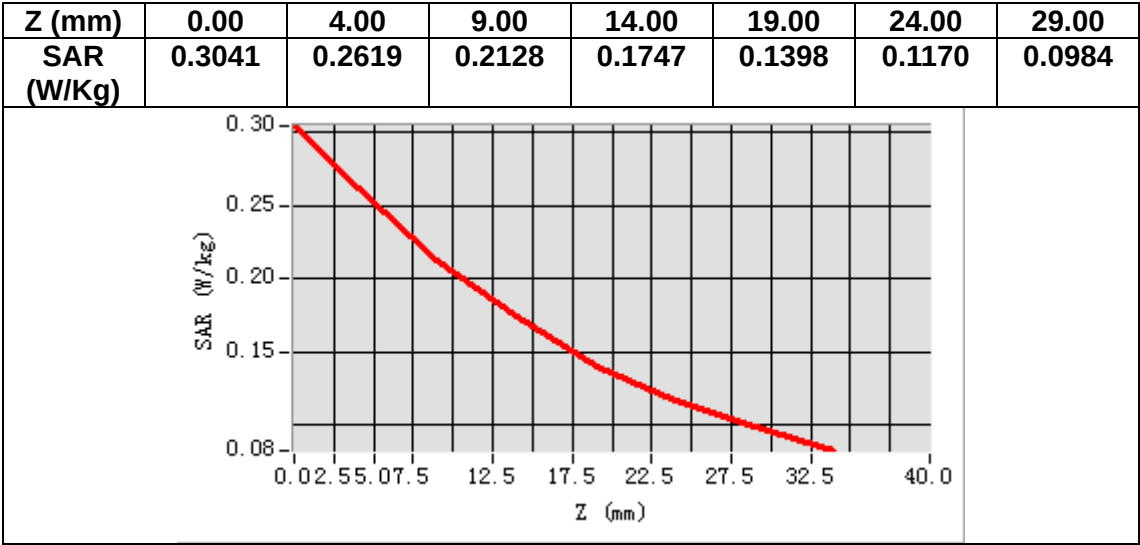
VOLUME SAR



Maximum location: X=-52.00, Y=-39.00

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.198959
SAR 1g (W/Kg)	0.261865



MEASUREMENT 10

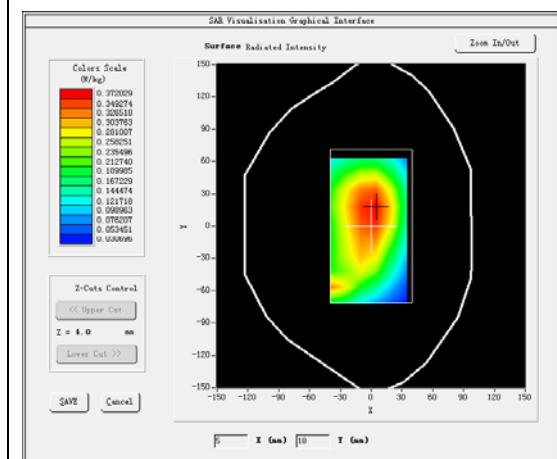
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

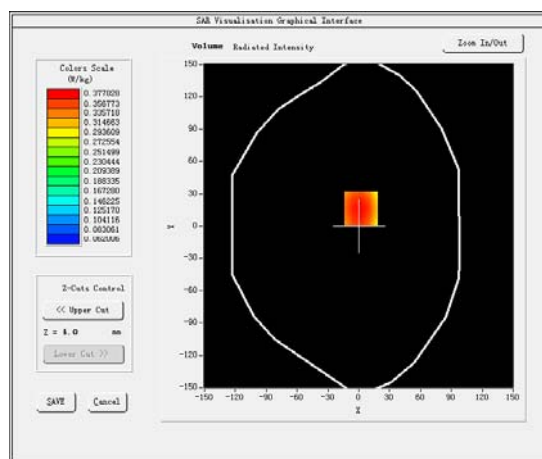
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	54.359581
Relative permittivity (imaginary part)	21.382740
Conductivity (S/m)	0.993585
Variation (%)	-0.560000

SURFACE SAR



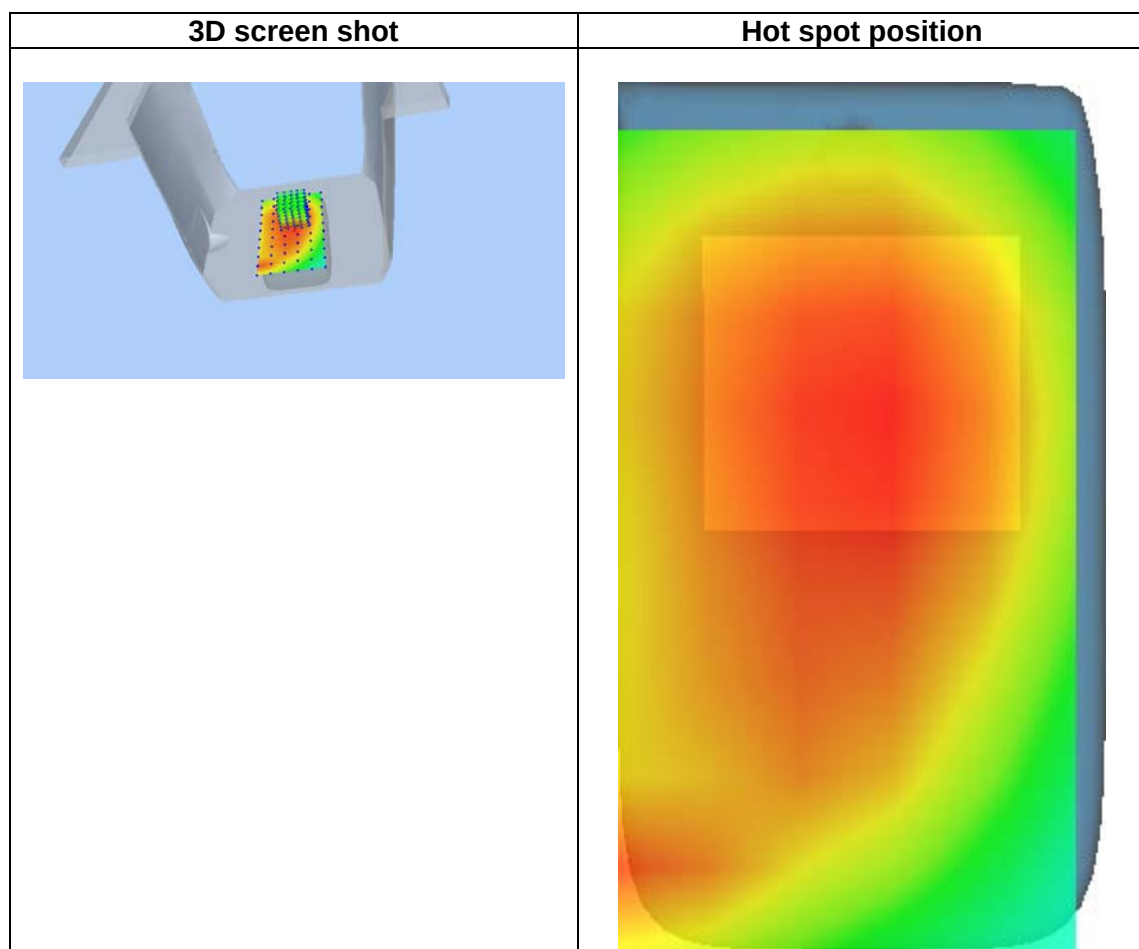
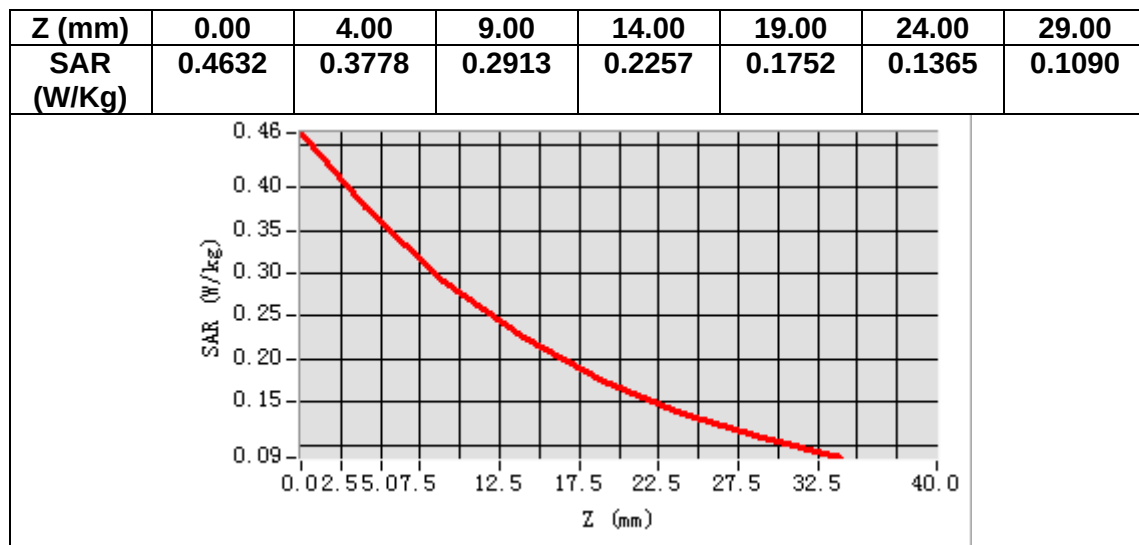
VOLUME SAR



Maximum location: X=2.00, Y=16.00

SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.278987
SAR 1g (W/Kg)	0.372886



MEASUREMENT 11

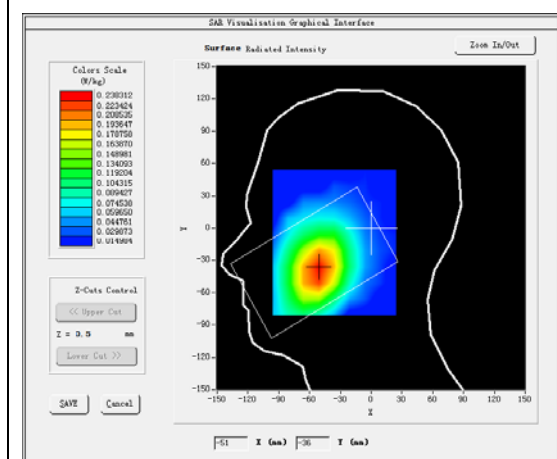
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>BC0</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CDMA (Crest factor: 1.0)</u>

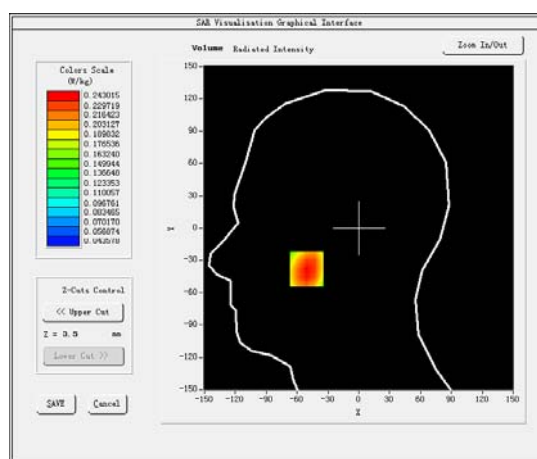
B. SAR Measurement Results

Frequency (MHz)	836.520000
Relative permittivity (real part)	40.240961
Relative permittivity (imaginary part)	20.241541
Conductivity (S/m)	0.940691
Variation (%)	2.100000

SURFACE SAR



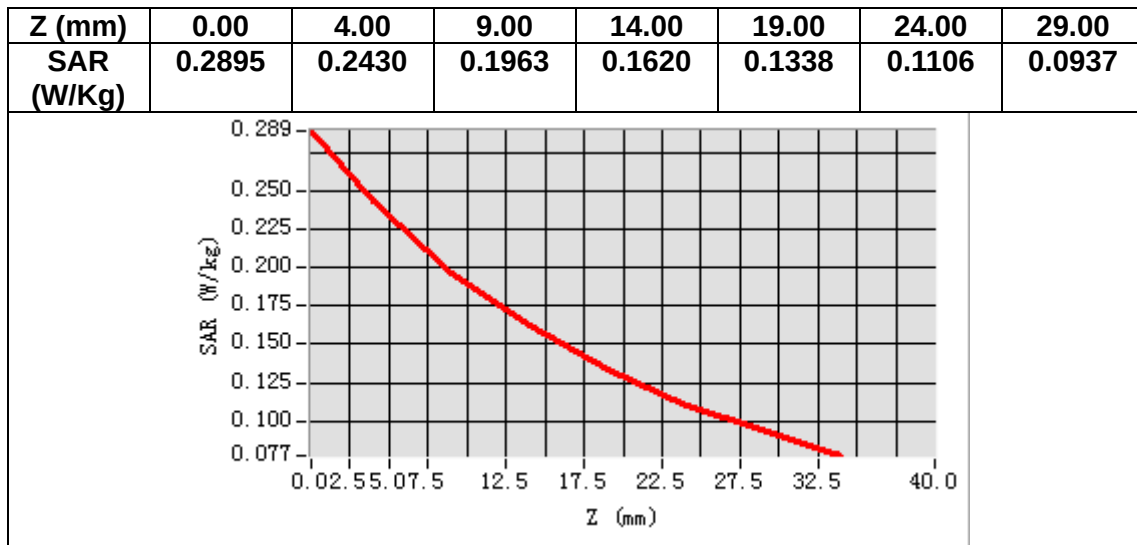
VOLUME SAR



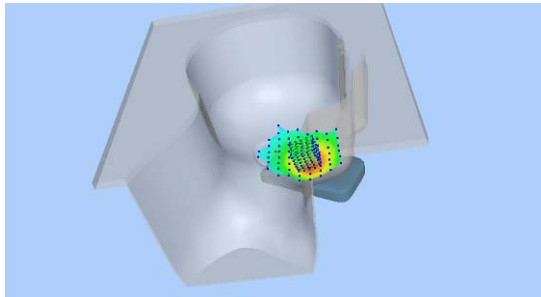
Maximum location: X=-51.00, Y=-38.00

SAR Peak: 0.30 W/kg

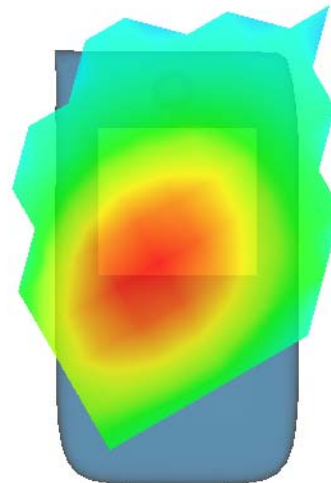
SAR 10g (W/Kg)	0.186064
SAR 1g (W/Kg)	0.245837



3D screen shot



Hot spot position



MEASUREMENT 12

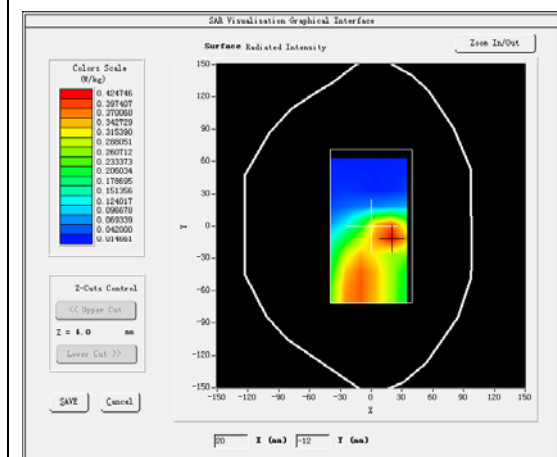
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>BC0</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CDMA (Crest factor: 1.0)</u>

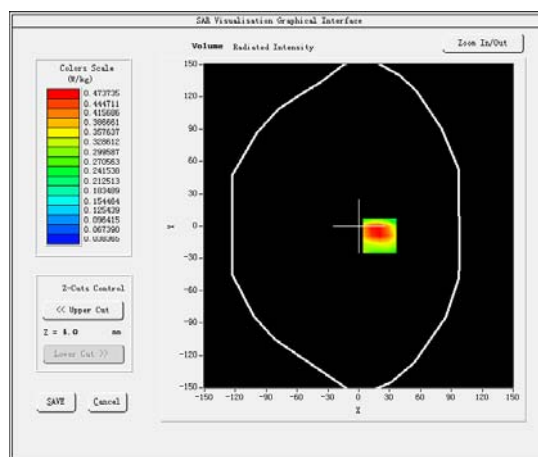
B. SAR Measurement Results

Frequency (MHz)	836.520000
Relative permittivity (real part)	54.358581
Relative permittivity (imaginary part)	21.383740
Conductivity (S/m)	0.993773
Variation (%)	-0.630000

SURFACE SAR



VOLUME SAR



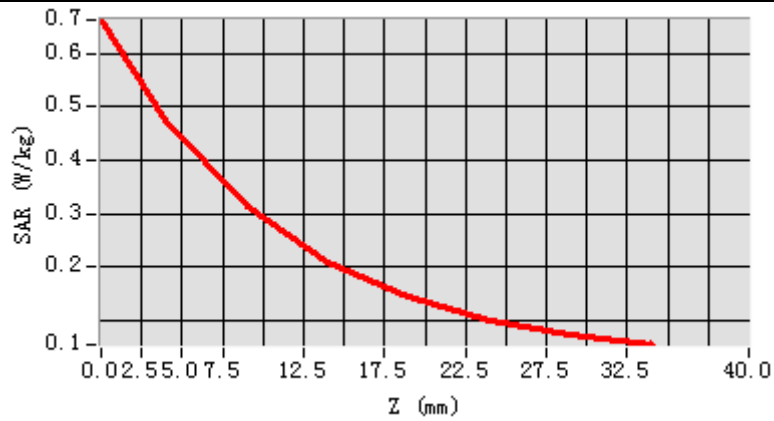
Maximum location: X=20.00, Y=-9.00

SAR Peak: 0.73 W/kg

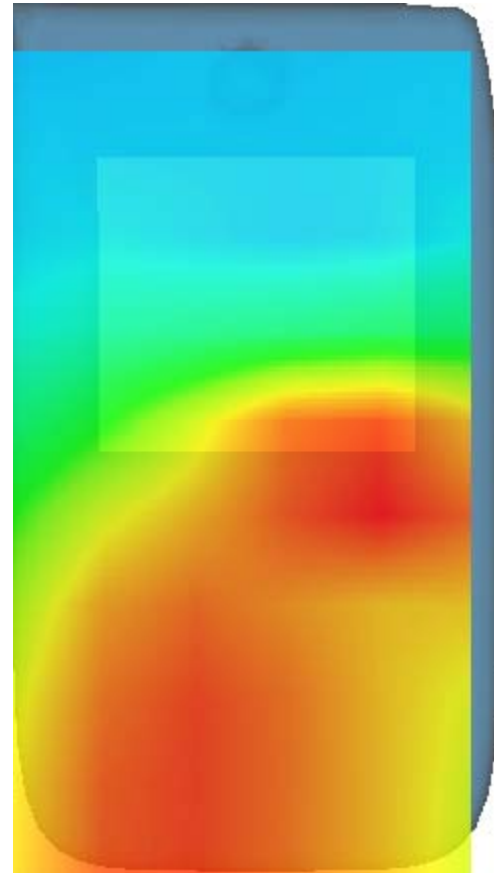
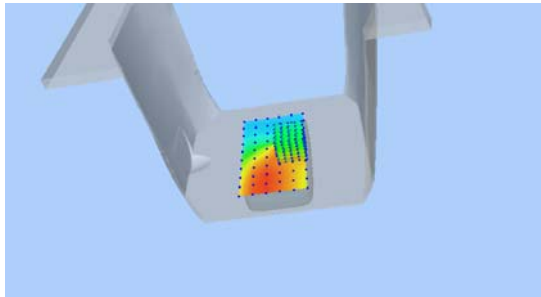
SAR 10g (W/Kg)	0.282579
SAR 1g (W/Kg)	0.480738

A line graph showing the relationship between SAR (W/kg) and Z (mm) for a 100 W CW antenna. The y-axis represents SAR (W/kg) and ranges from 0.1 to 0.7 with major grid lines every 0.1 units. The x-axis represents Z (mm) and ranges from 0.0 to 40.0 with major grid lines every 5.0 units. A red curve starts at approximately (0.2, 0.68) and decreases monotonically, passing through points such as (0.5, 0.55), (1.0, 0.45), (2.0, 0.35), (5.0, 0.25), (10.0, 0.18), and (20.0, 0.12), eventually reaching approximately 0.1 W/kg at Z=34 mm.

Z (mm)	SAR (W/kg)
0.2	0.68
0.5	0.55
1.0	0.45
2.0	0.35
5.0	0.25
10.0	0.18
20.0	0.12
34.0	0.10



Hot spot position



MEASUREMENT 13

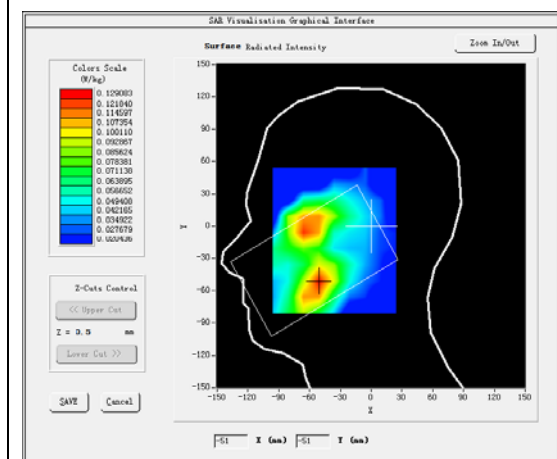
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>BC1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CDMA (Crest factor: 1.0)</u>

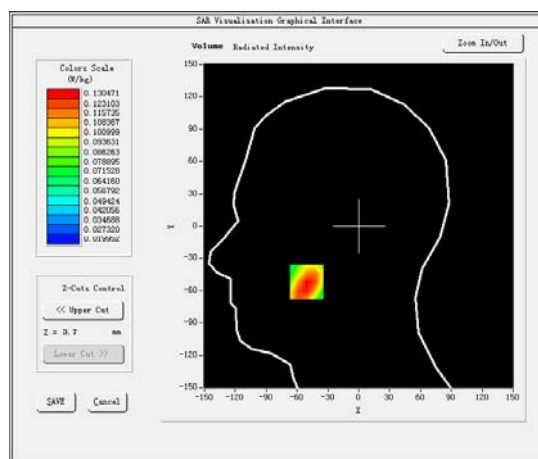
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.898201
Relative permittivity (imaginary part)	13.744300
Conductivity (S/m)	1.435516
Variation (%)	4.280000

SURFACE SAR



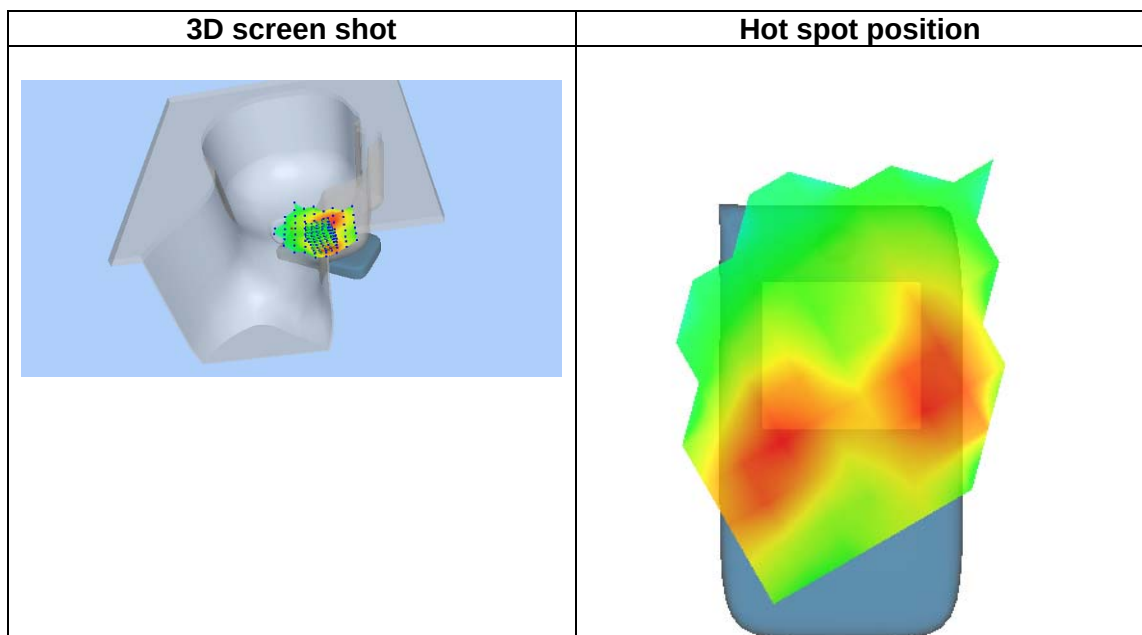
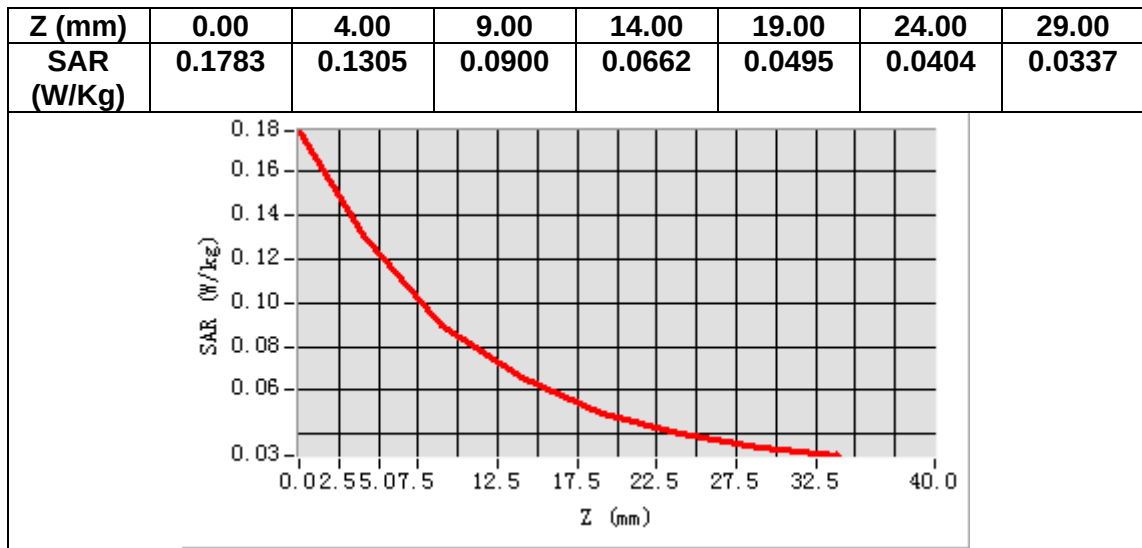
VOLUME SAR



Maximum location: X=-51.00, Y=-52.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.074986
SAR 1g (W/Kg)	0.115140



MEASUREMENT 14

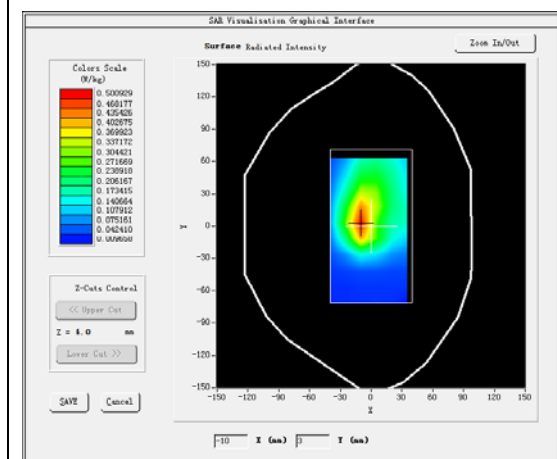
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>BC1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>CDMA (Crest factor: 1.0)</u>

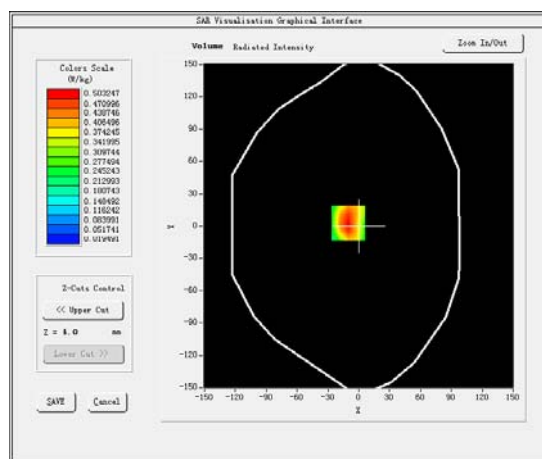
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.538898
Relative permittivity (imaginary part)	14.657700
Conductivity (S/m)	1.530915
Variation (%)	0.010000

SURFACE SAR



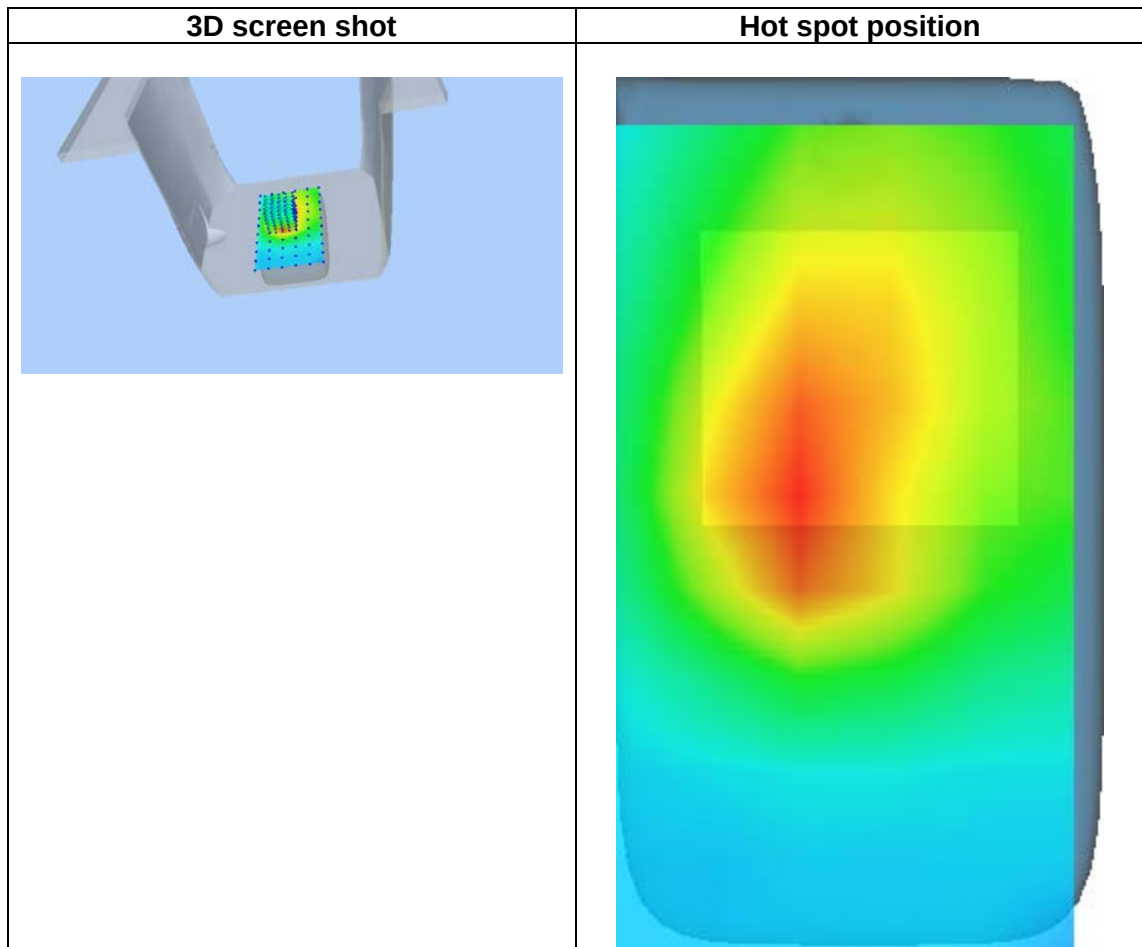
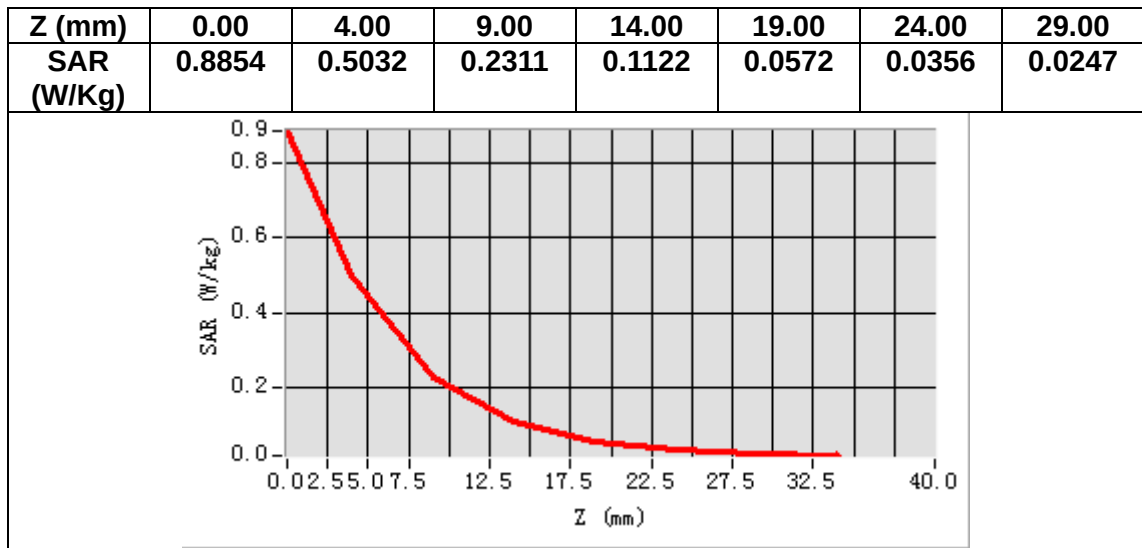
VOLUME SAR



Maximum location: X=-10.00, Y=3.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.244499
SAR 1g (W/Kg)	0.493281



MEASUREMENT 15

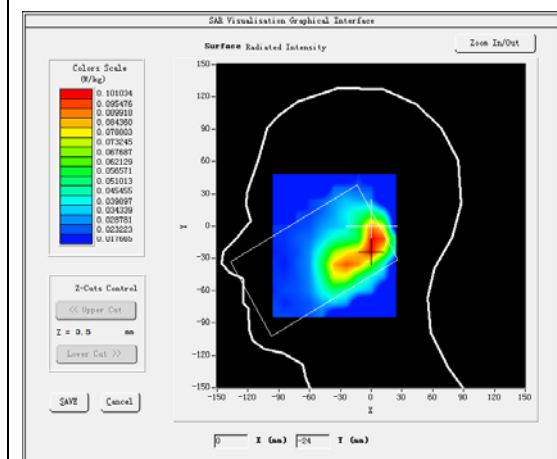
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>

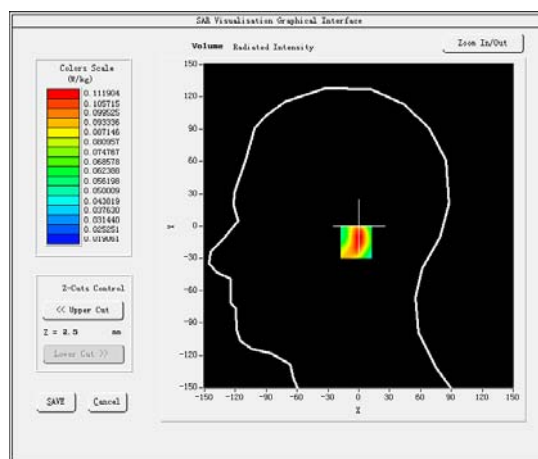
B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.448002
Relative permittivity (imaginary part)	13.630300
Conductivity (S/m)	1.845391
Variation (%)	-2.100000

SURFACE SAR



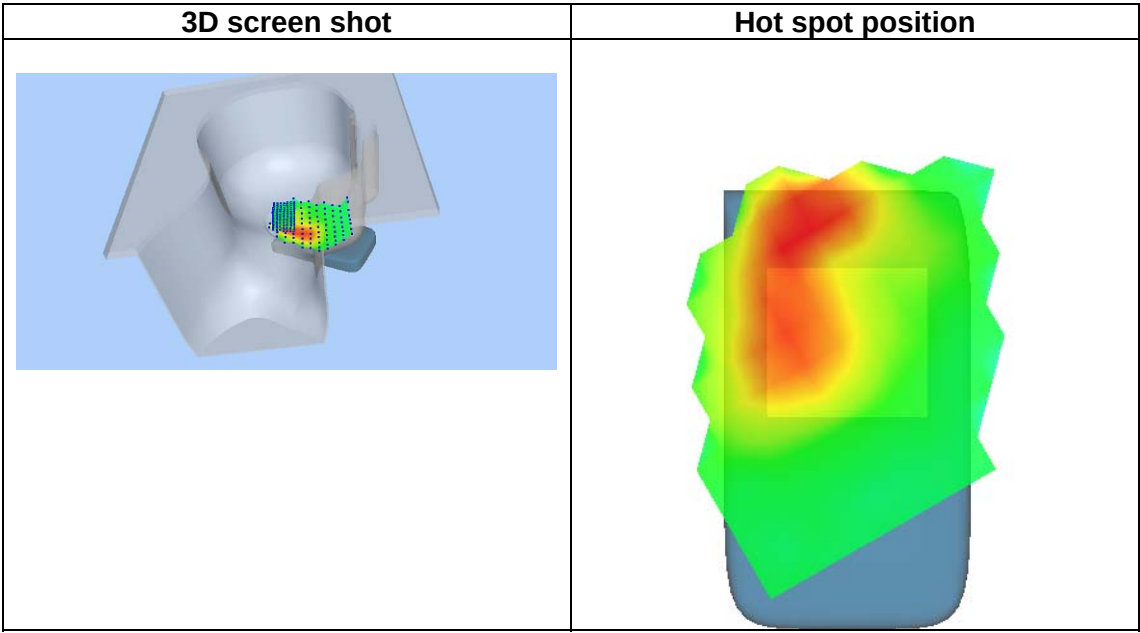
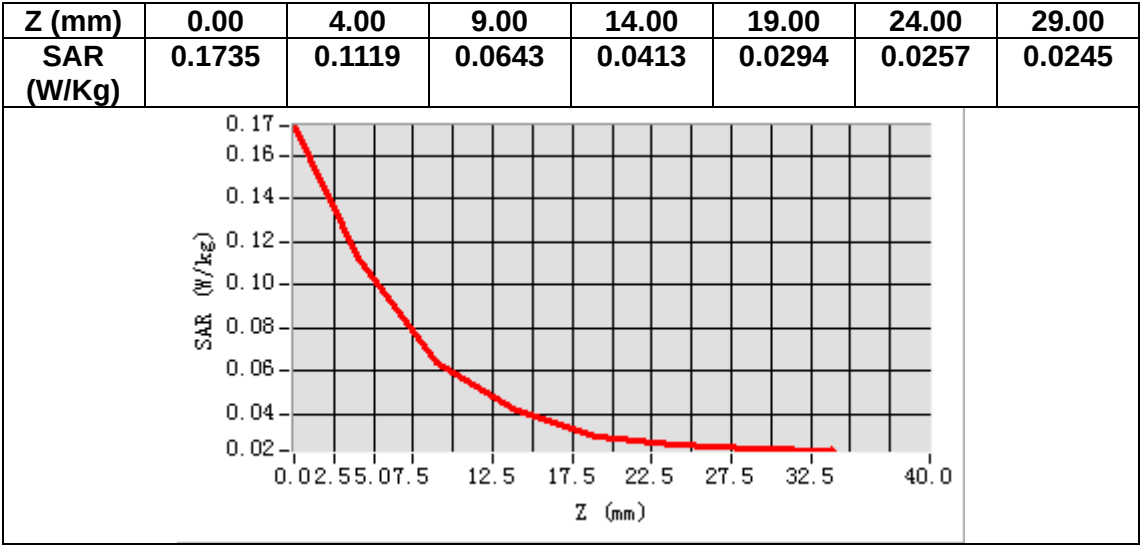
VOLUME SAR



Maximum location: X=3.00, Y=-15.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.063041
SAR 1g (W/Kg)	0.109444



MEASUREMENT 16

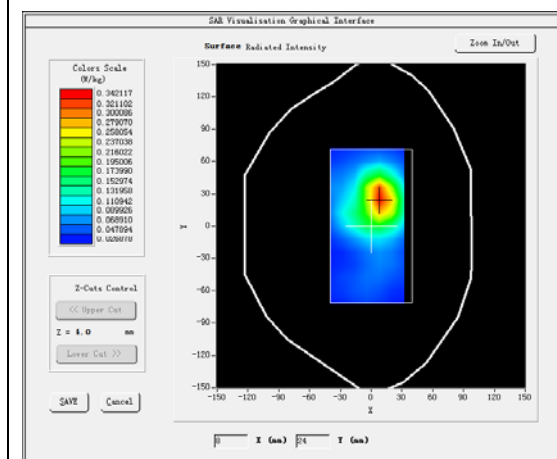
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11b ISM</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11b (Crest factor: 1.0)</u>

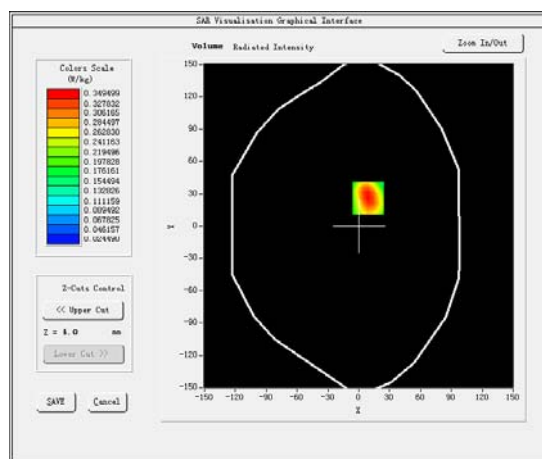
B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	51.801601
Relative permittivity (imaginary part)	14.885620
Conductivity (S/m)	2.015348
Variation (%)	-1.620000

SURFACE SAR



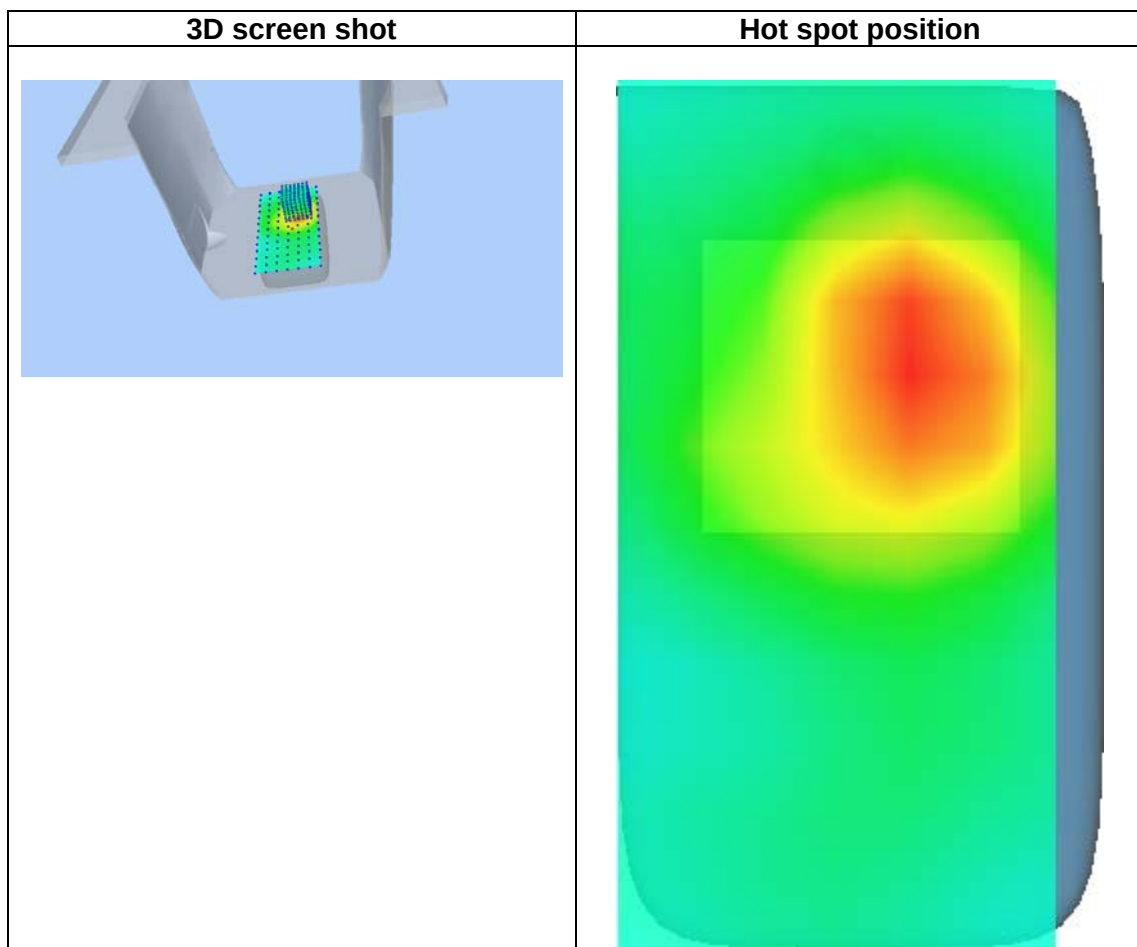
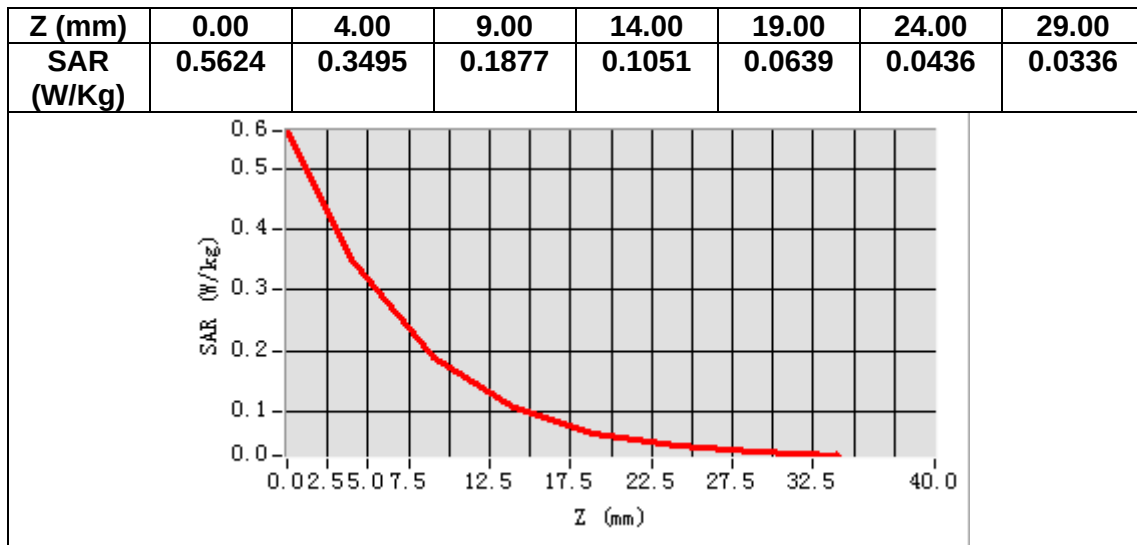
VOLUME SAR



Maximum location: X=9.00, Y=26.00

SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.185691
SAR 1g (W/Kg)	0.340217



MEASUREMENT 17

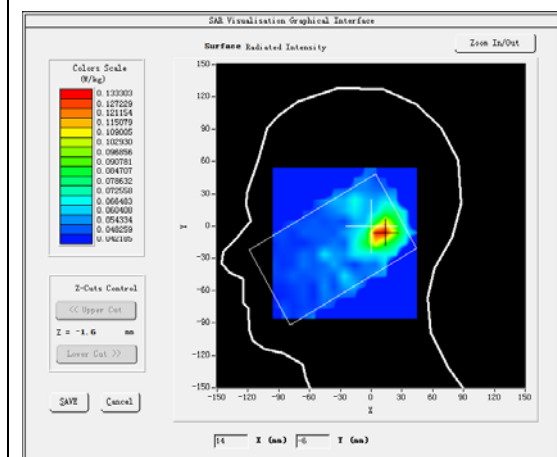
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>

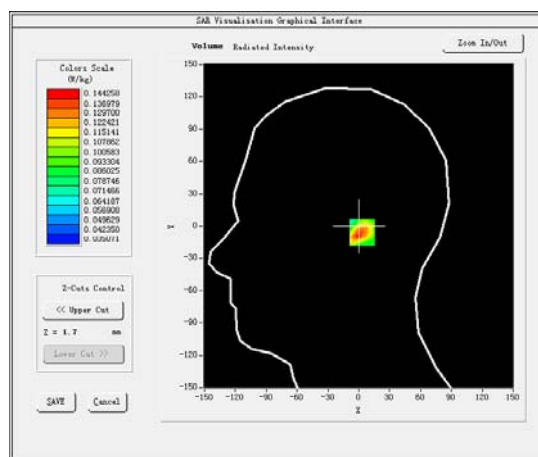
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.529980
Relative permittivity (imaginary part)	16.221619
Conductivity (S/m)	4.686246
Variation (%)	-1.640000

SURFACE SAR



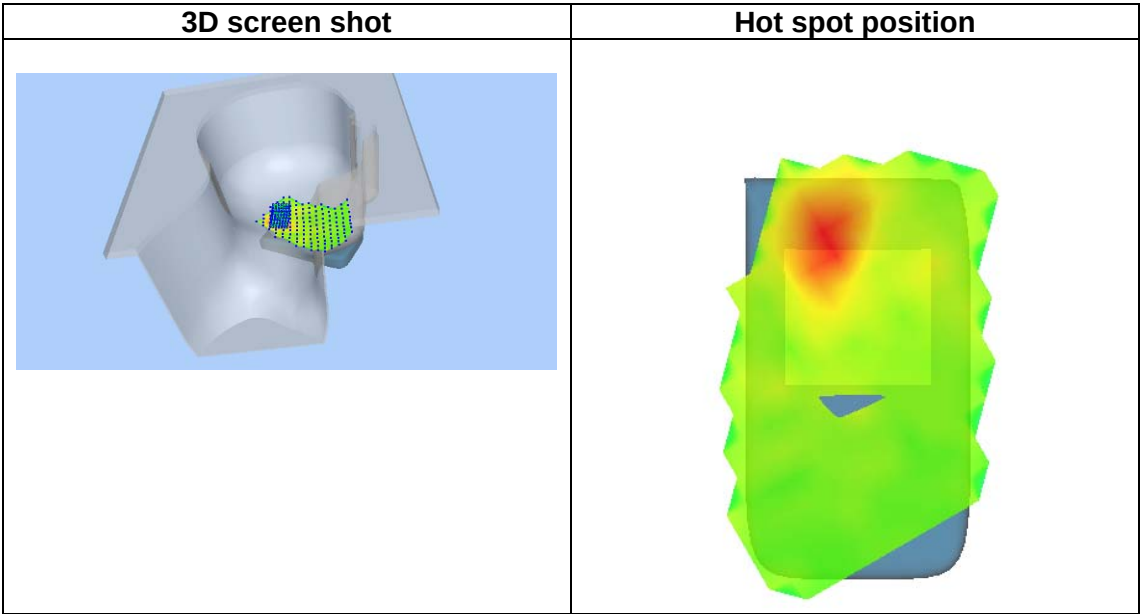
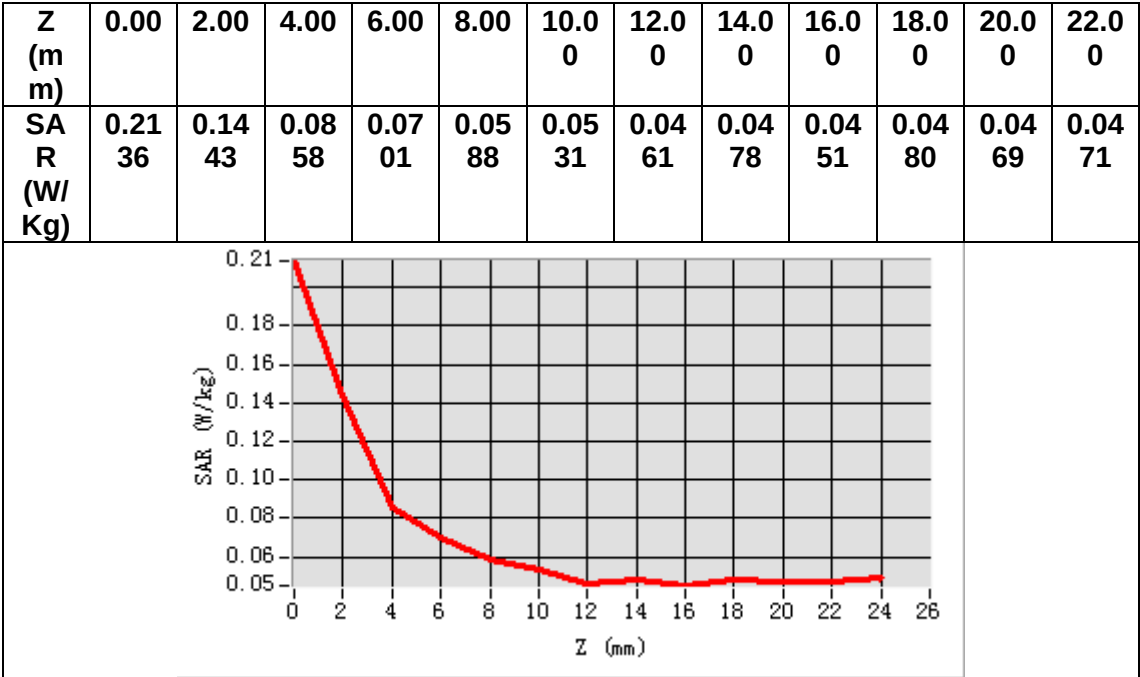
VOLUME SAR



Maximum location: X=11.00, Y=-6.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.080032
SAR 1g (W/Kg)	0.139447



MEASUREMENT 18

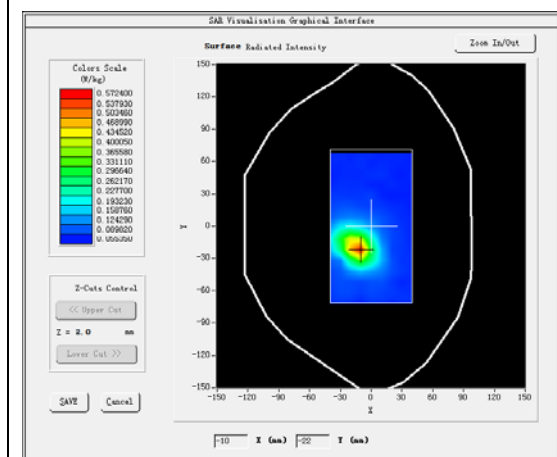
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>

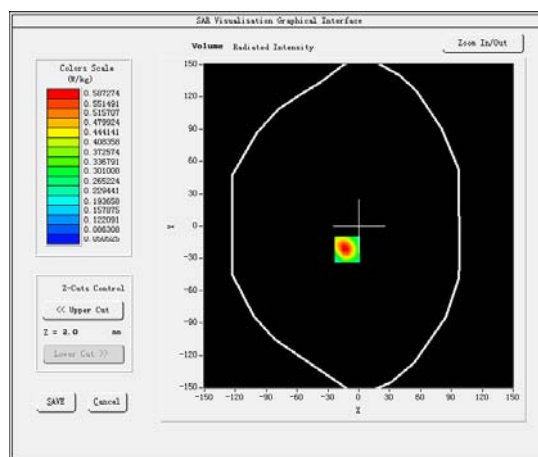
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.519539
Relative permittivity (imaginary part)	18.395510
Conductivity (S/m)	5.314258
Variation (%)	-1.800000

SURFACE SAR



VOLUME SAR

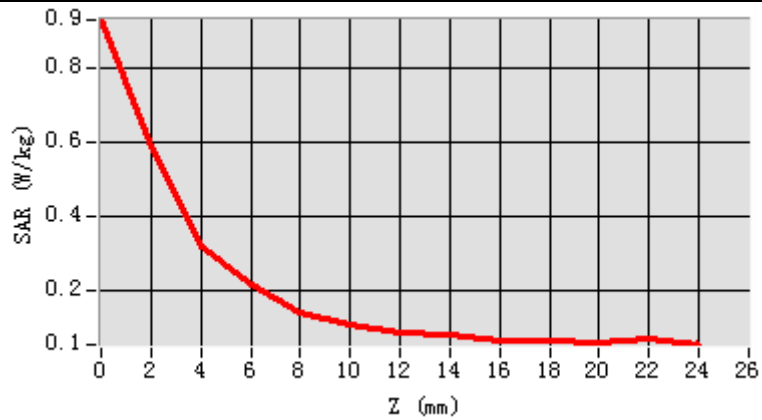


Maximum location: X=-11.00, Y=-22.00

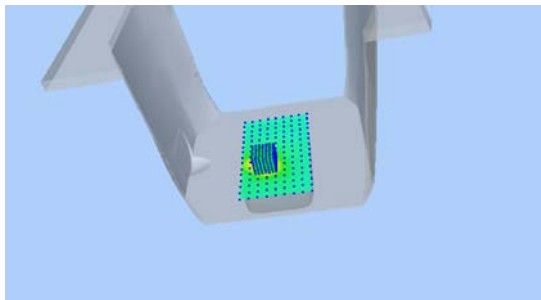
SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.179011
SAR 1g (W/Kg)	0.376889

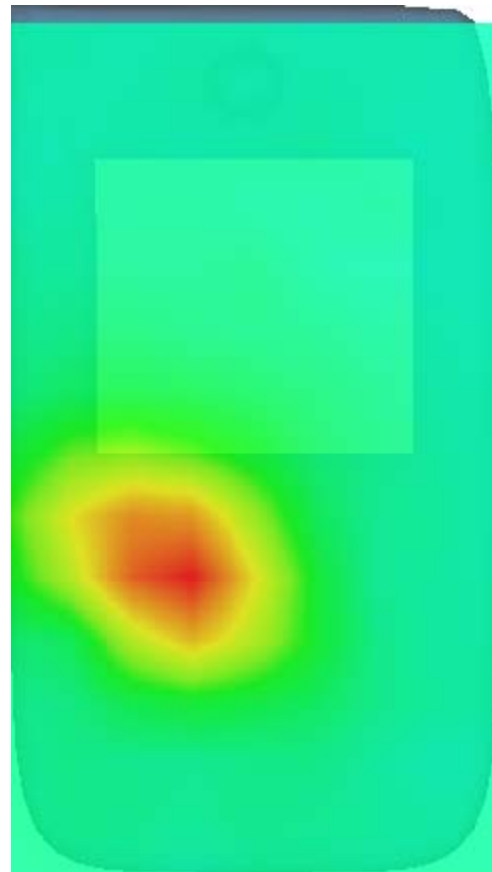
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	0.92 91	0.58 73	0.31 58	0.21 70	0.13 80	0.10 93	0.08 33	0.07 74	0.06 59	0.06 24	0.05 72	0.06 79



3D screen shot



Hot spot position



MEASUREMENT 19

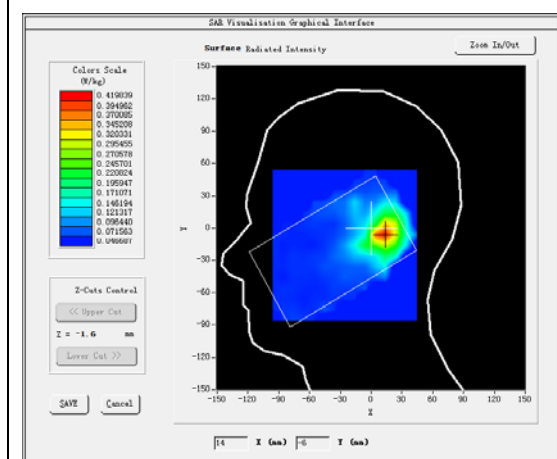
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>

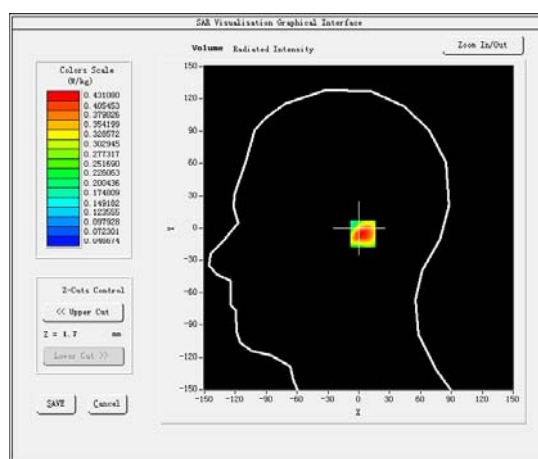
B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	34.511787
Relative permittivity (imaginary part)	16.135265
Conductivity (S/m)	5.185695
Variation (%)	0.220000

SURFACE SAR



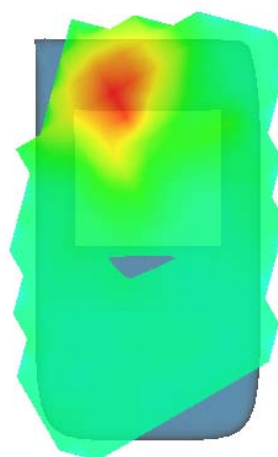
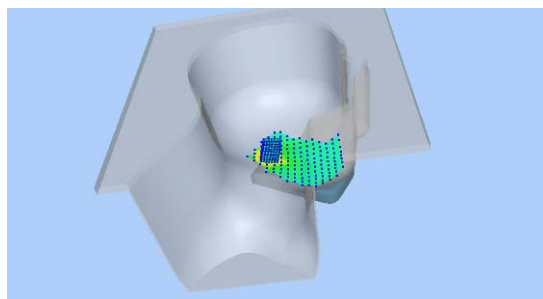
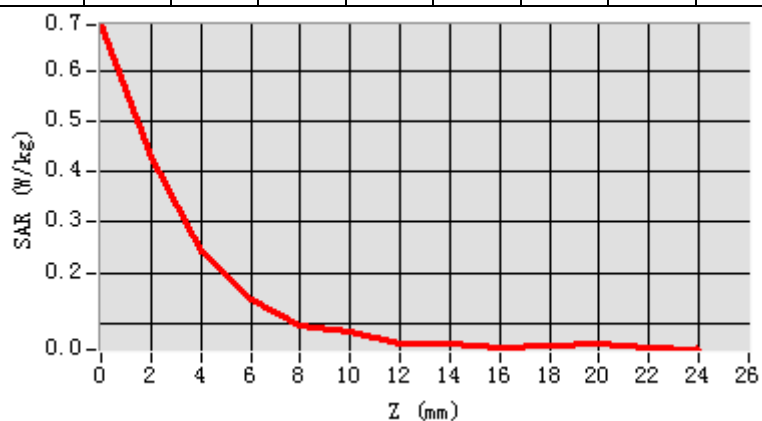
VOLUME SAR



Maximum location: X=12.00, Y=-5.00

SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.200645
SAR 1g (W/Kg)	0.435591



MEASUREMENT 20

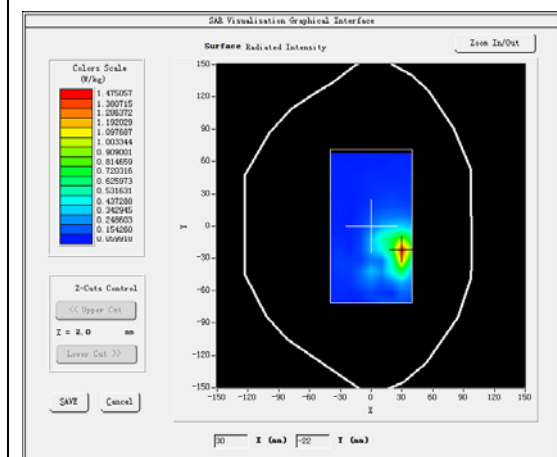
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=10mm dy=10mm, h= 2.00 mm</u>
<u>ZoomScan</u>	<u>7x7x12,dx=4mm dy=4mm dz=2mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>IEEE 802.11a U-NII</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>IEEE802.11a (Crest factor: 1.0)</u>

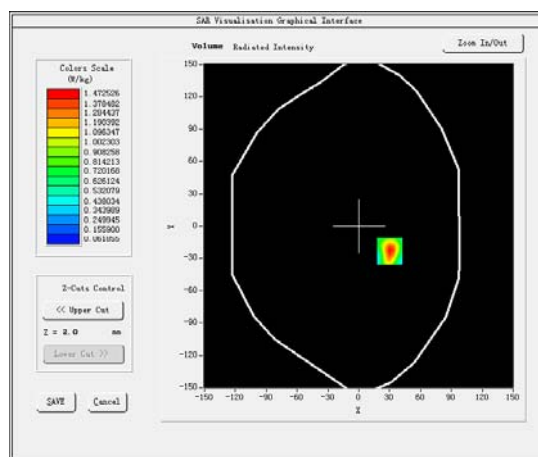
B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	48.288700
Relative permittivity (imaginary part)	18.796766
Conductivity (S/m)	6.041072
Variation (%)	0.880000

SURFACE SAR



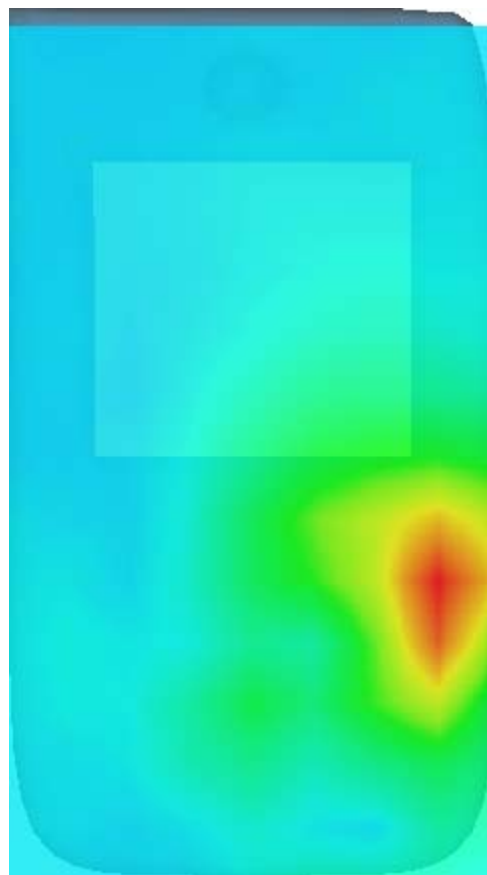
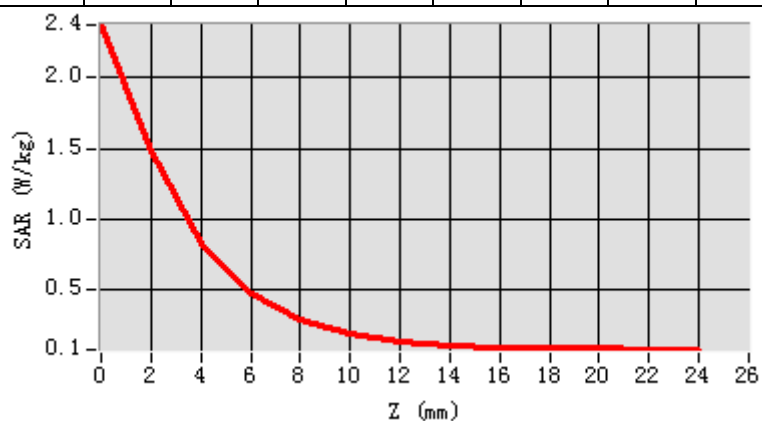
VOLUME SAR



Maximum location: X=30.00, Y=-23.00

SAR Peak: 2.47 W/kg

SAR 10g (W/Kg)	0.360484
SAR 1g (W/Kg)	0.470763



MEASUREMENT 21

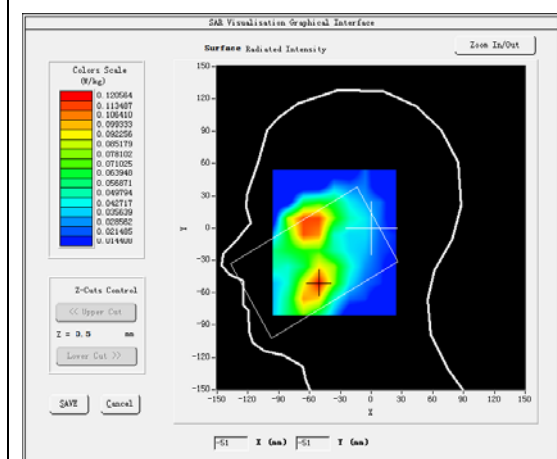
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

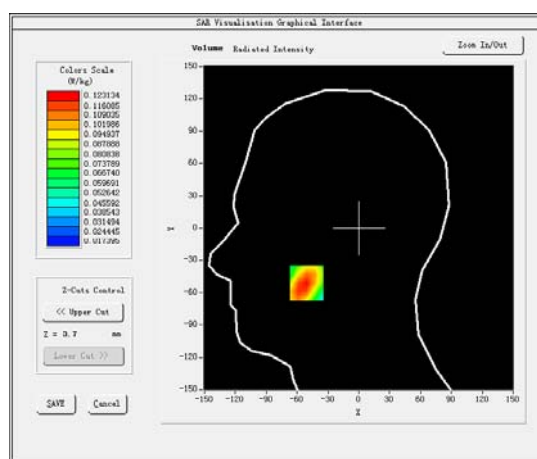
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.943802
Relative permittivity (imaginary part)	13.738100
Conductivity (S/m)	1.434487
Variation (%)	-1.980000

SURFACE SAR



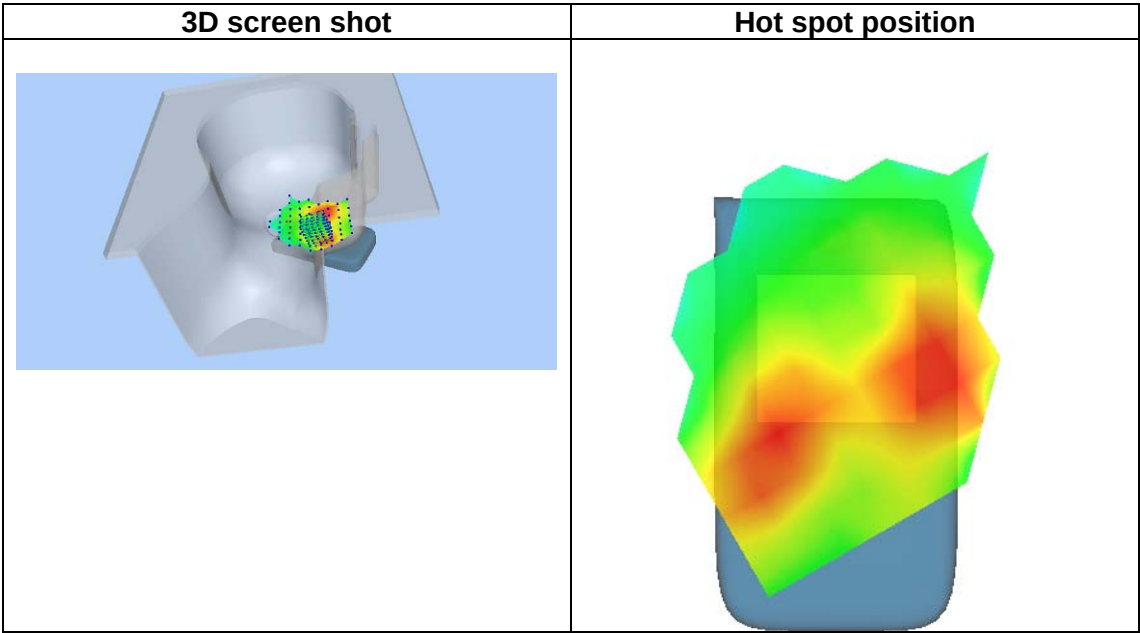
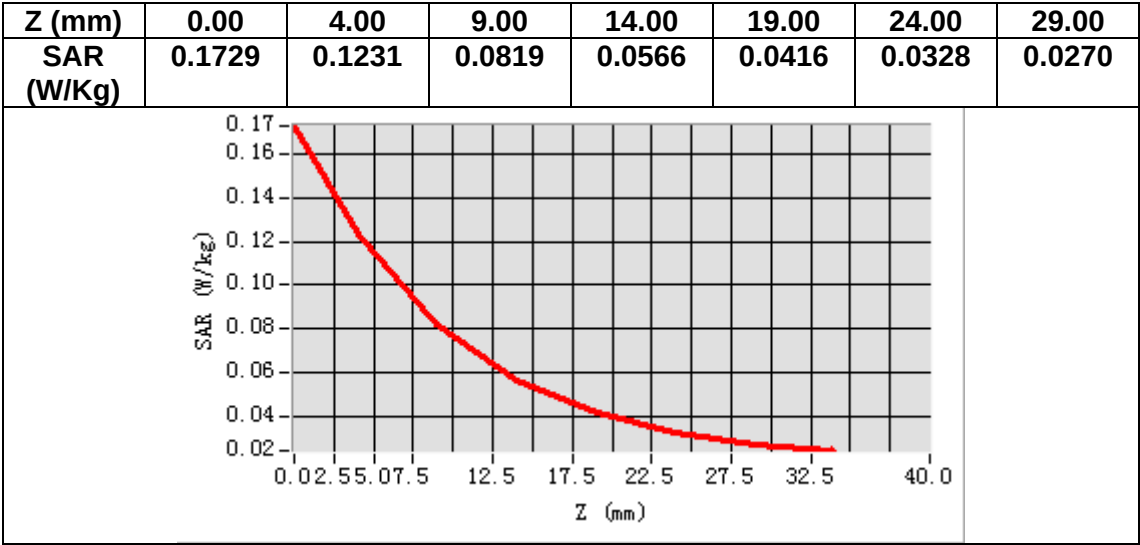
VOLUME SAR



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

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.076521
SAR 1g (W/Kg)	0.120431



MEASUREMENT 22

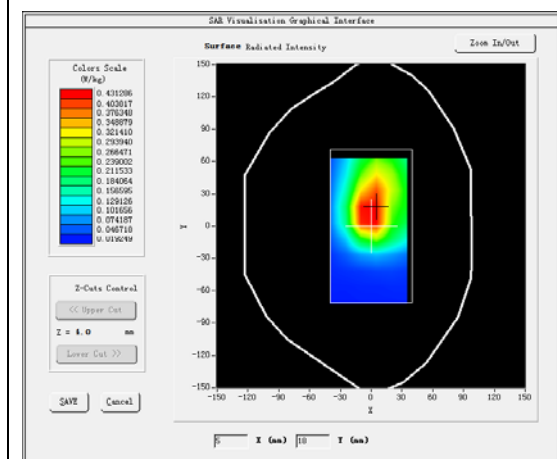
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

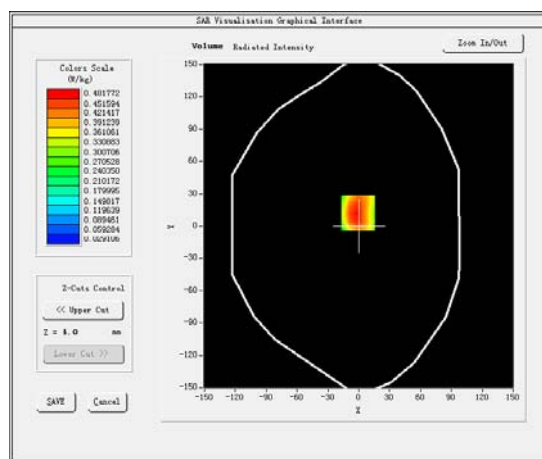
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.545952
Relative permittivity (imaginary part)	14.666150
Conductivity (S/m)	1.531390
Variation (%)	-0.870000

SURFACE SAR



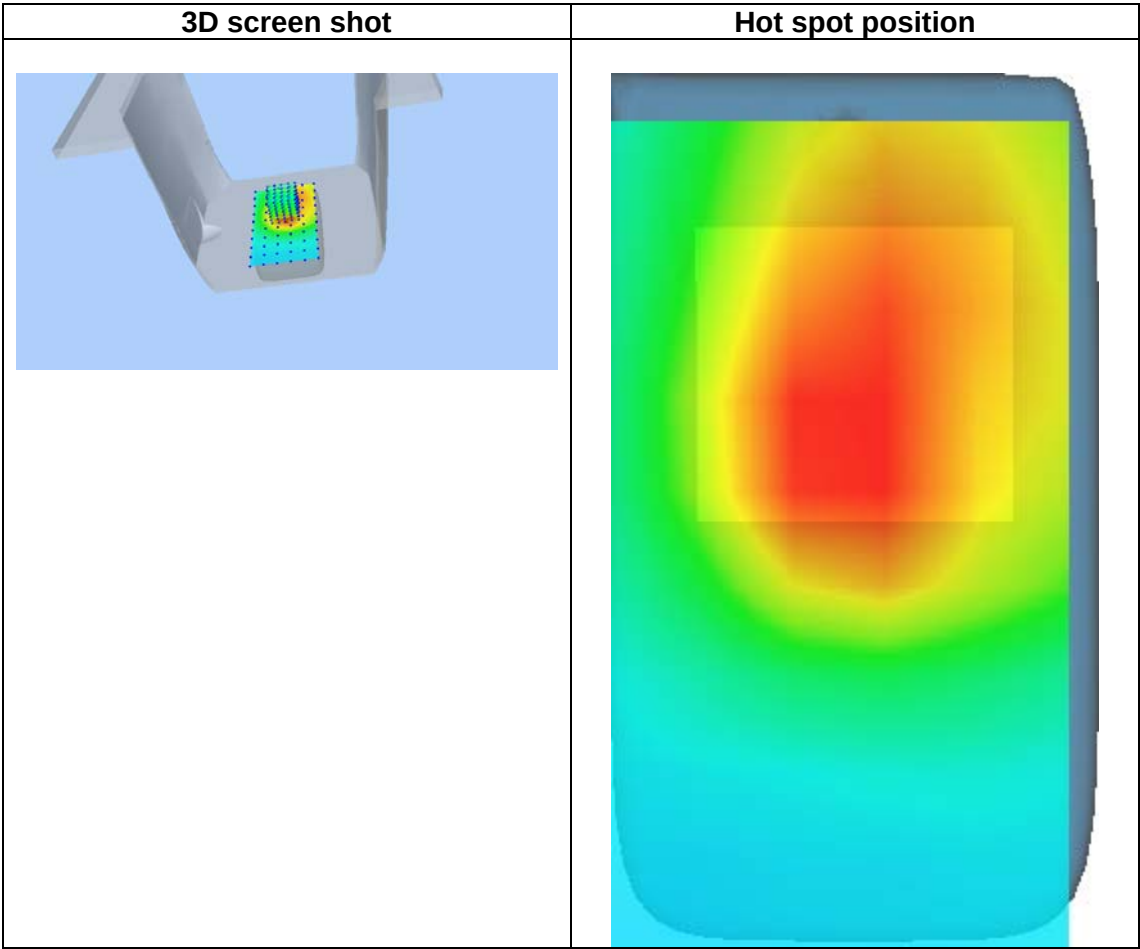
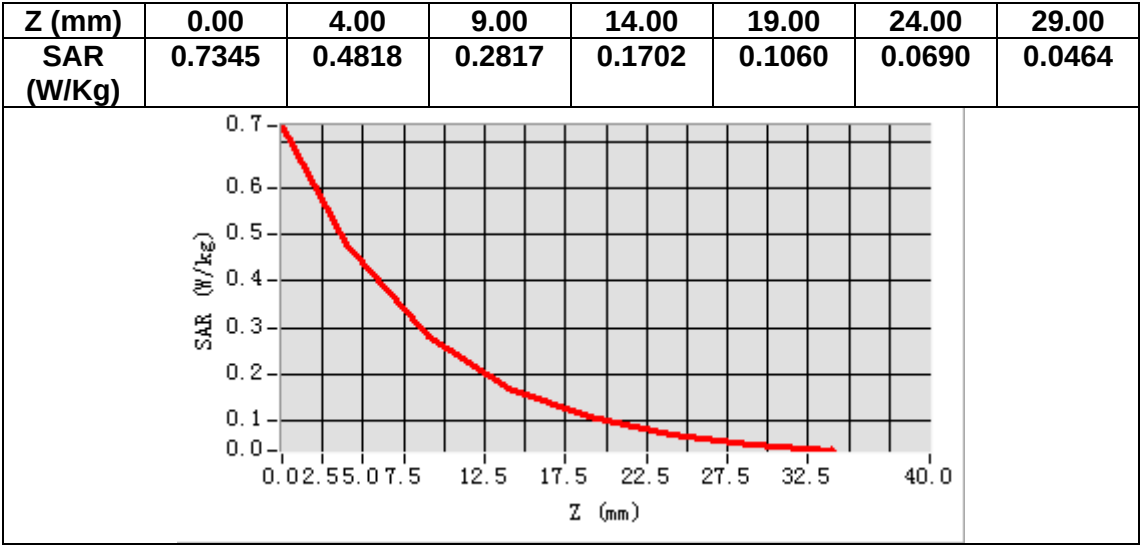
VOLUME SAR



Maximum location: X=-1.00, Y=12.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.271768
SAR 1g (W/Kg)	0.473940



MEASUREMENT 23

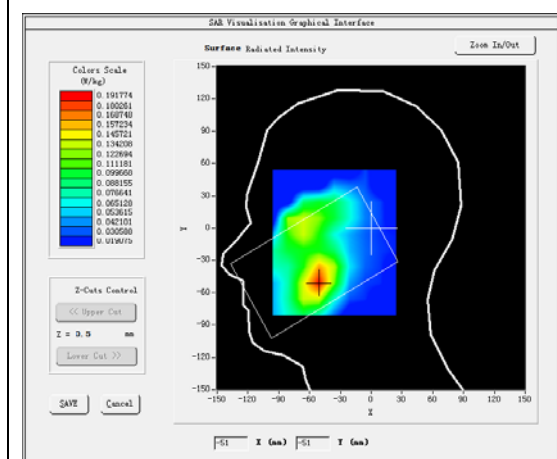
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

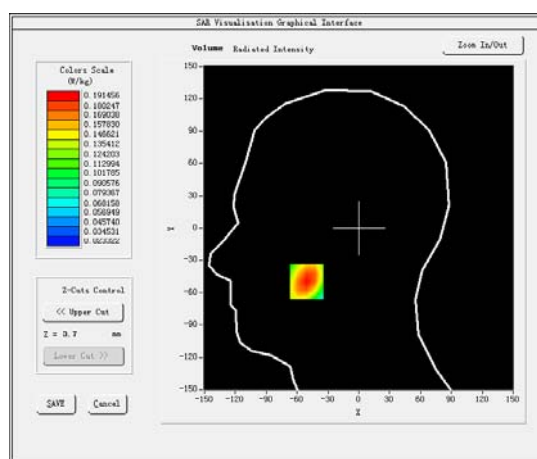
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	38.765289
Relative permittivity (imaginary part)	14.110592
Conductivity (S/m)	1.358144
Variation (%)	1.760000

SURFACE SAR



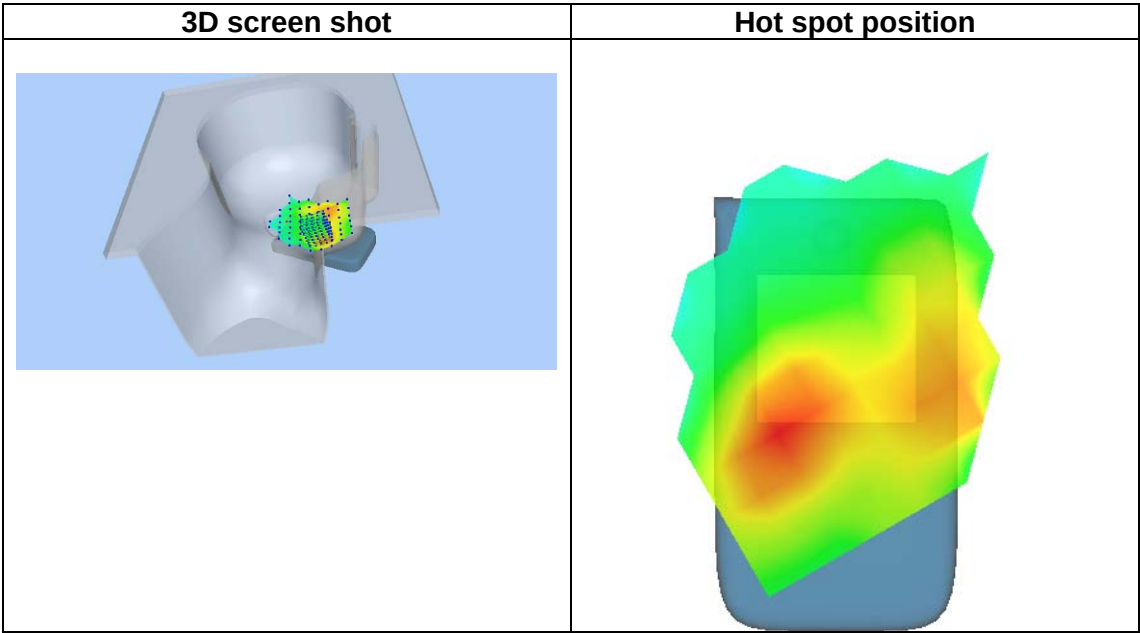
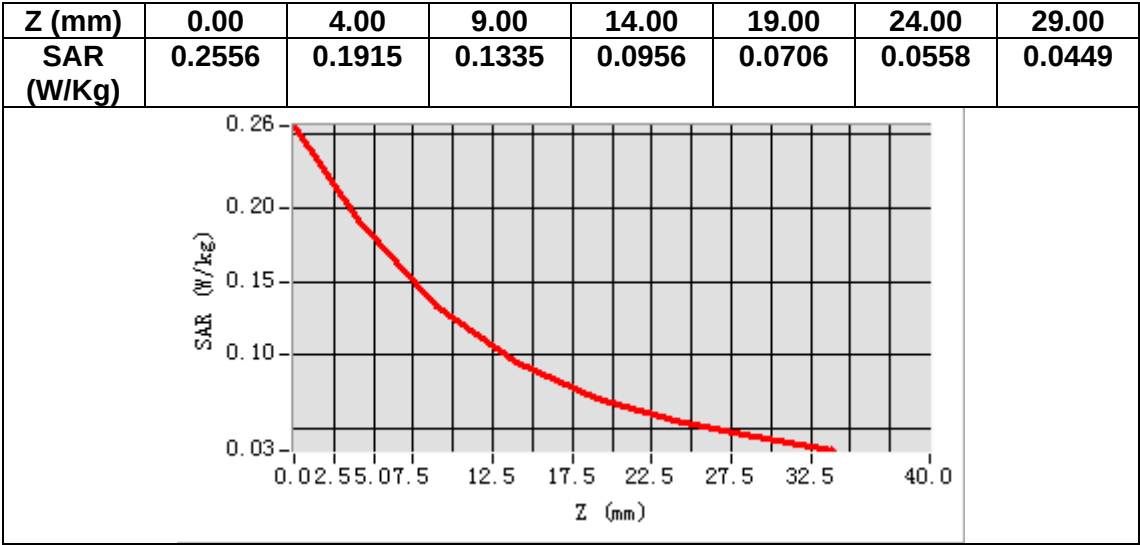
VOLUME SAR



Maximum location: X=-51.00, Y=-50.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.121989
SAR 1g (W/Kg)	0.184115



MEASUREMENT 24

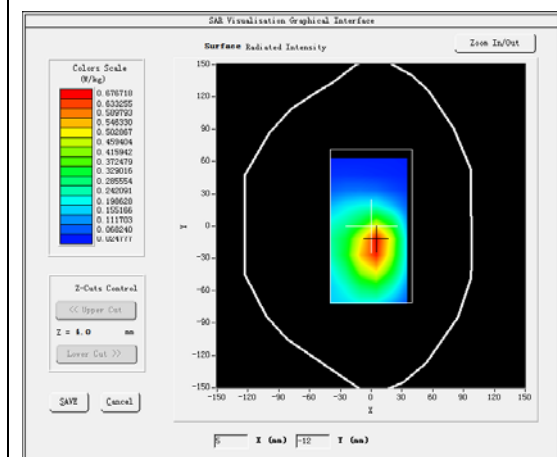
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

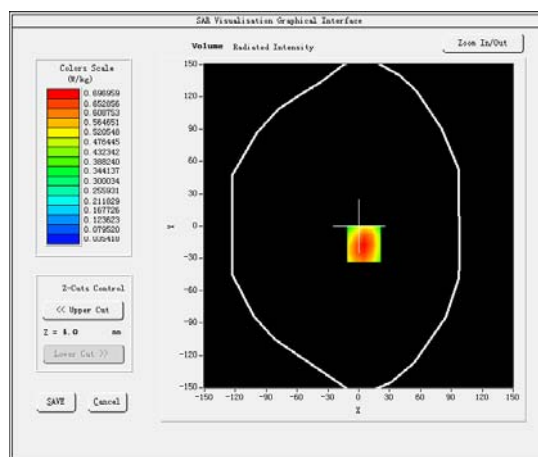
B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	53.343365
Relative permittivity (imaginary part)	15.603220
Conductivity (S/m)	1.501810
Variation (%)	-0.280000

SURFACE SAR



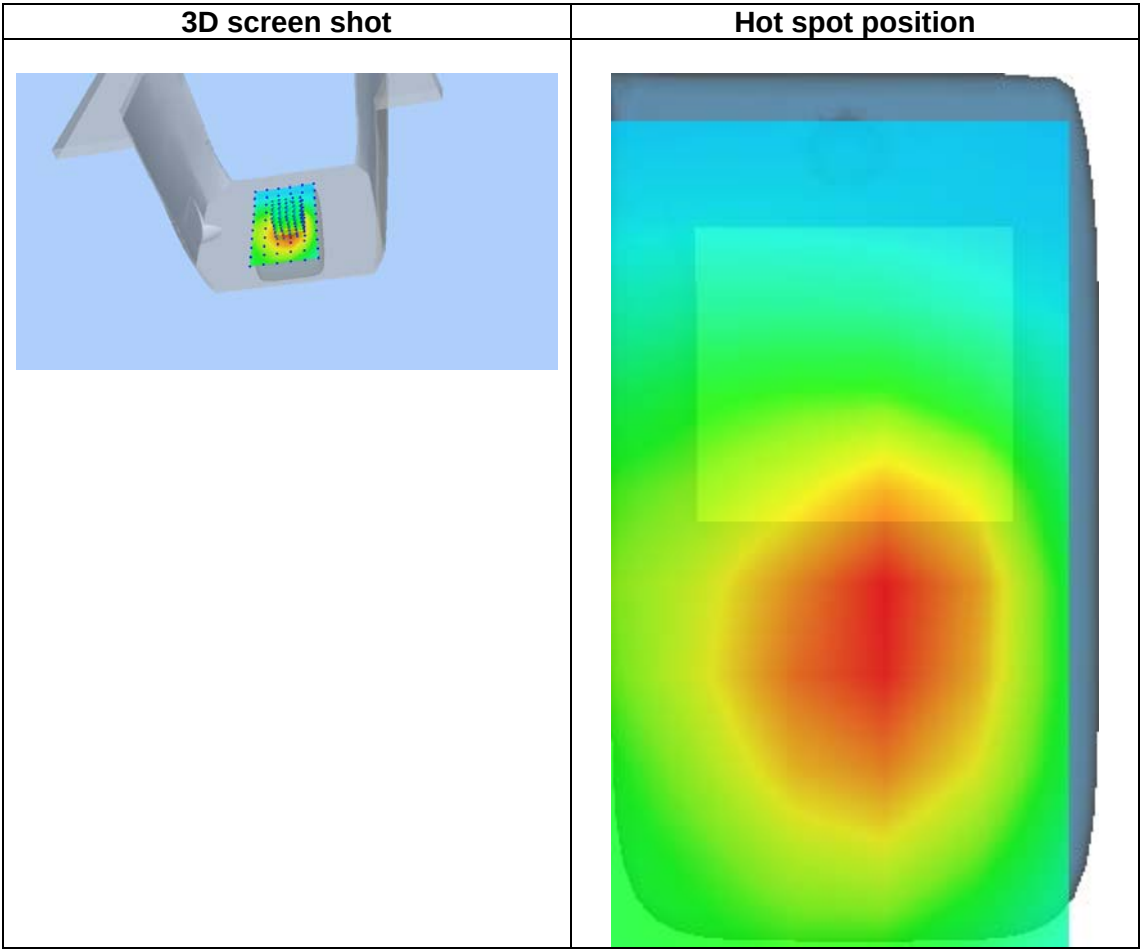
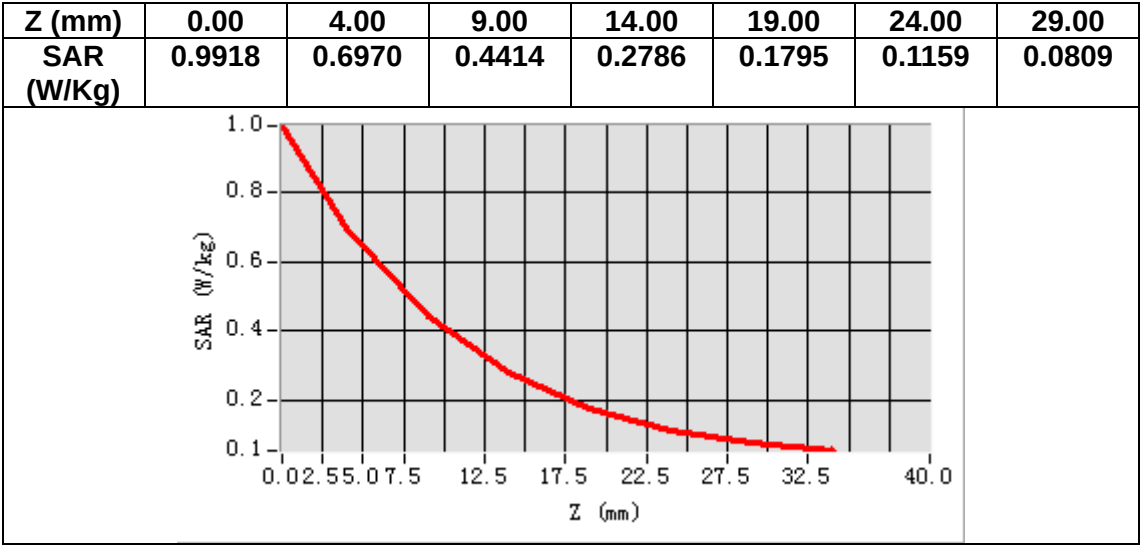
VOLUME SAR



Maximum location: X=5.00, Y=-17.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.415588
SAR 1g (W/Kg)	0.672079



MEASUREMENT 25

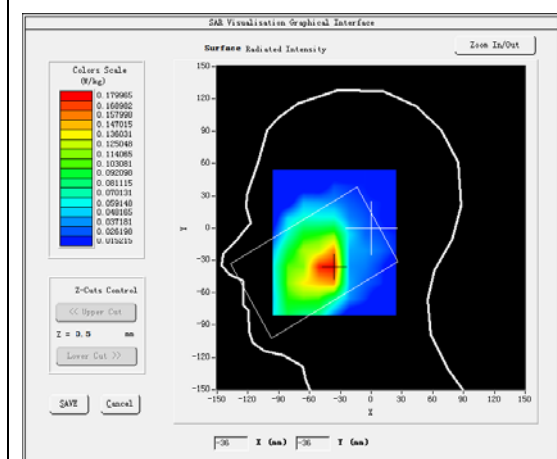
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

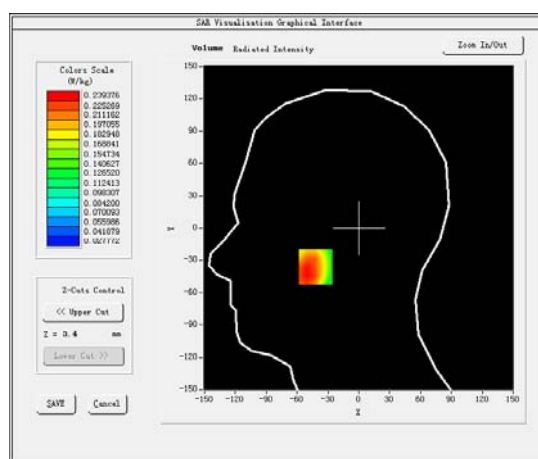
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	40.253551
Relative permittivity (imaginary part)	20.230200
Conductivity (S/m)	0.940142
Variation (%)	0.770000

SURFACE SAR



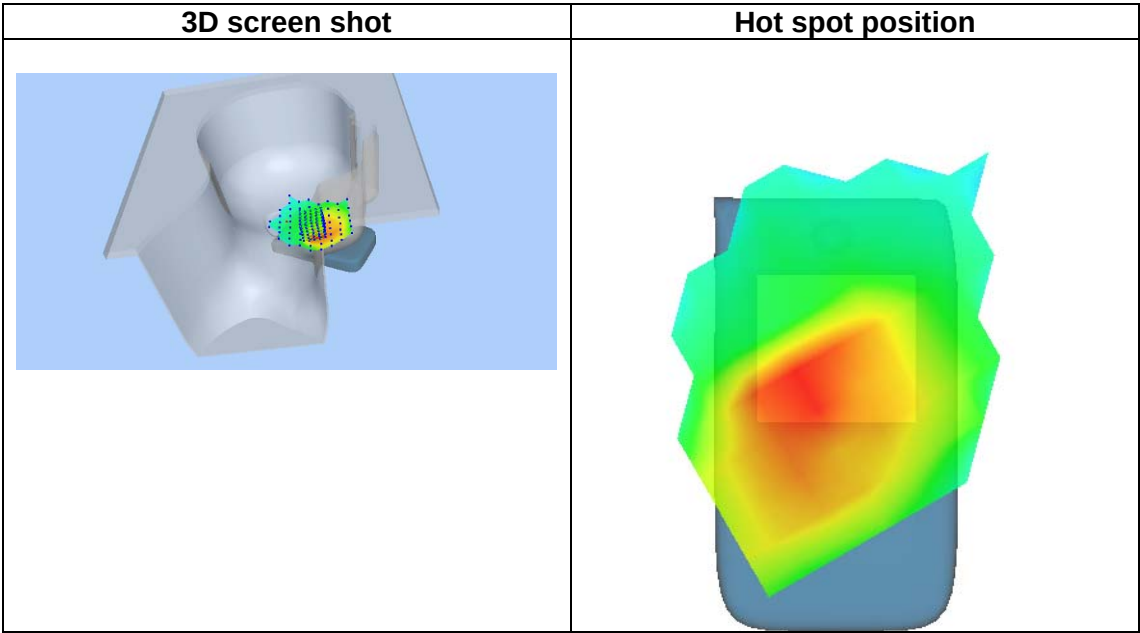
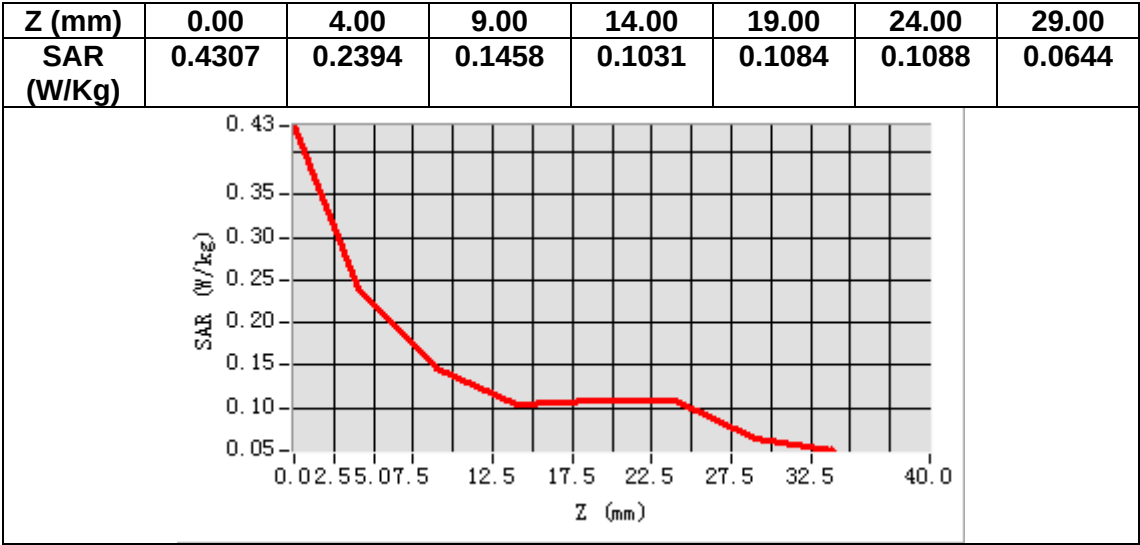
VOLUME SAR



Maximum location: X=-42.00, Y=-36.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.172922
SAR 1g (W/Kg)	0.271810



MEASUREMENT 26

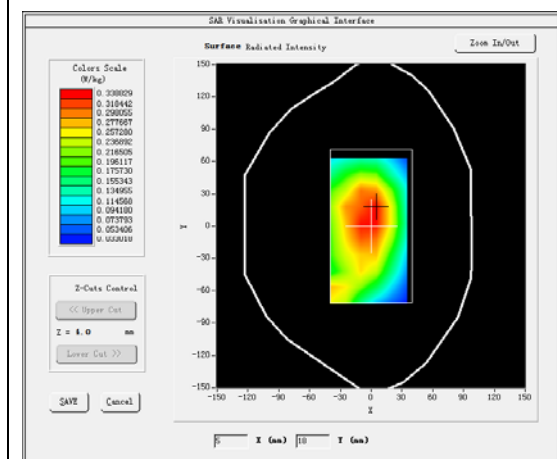
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

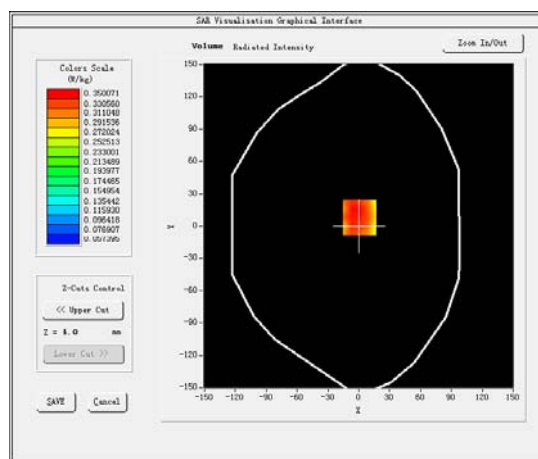
B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative permittivity (real part)	54.363499
Relative permittivity (imaginary part)	21.377001
Conductivity (S/m)	0.993437
Variation (%)	1.180000

SURFACE SAR



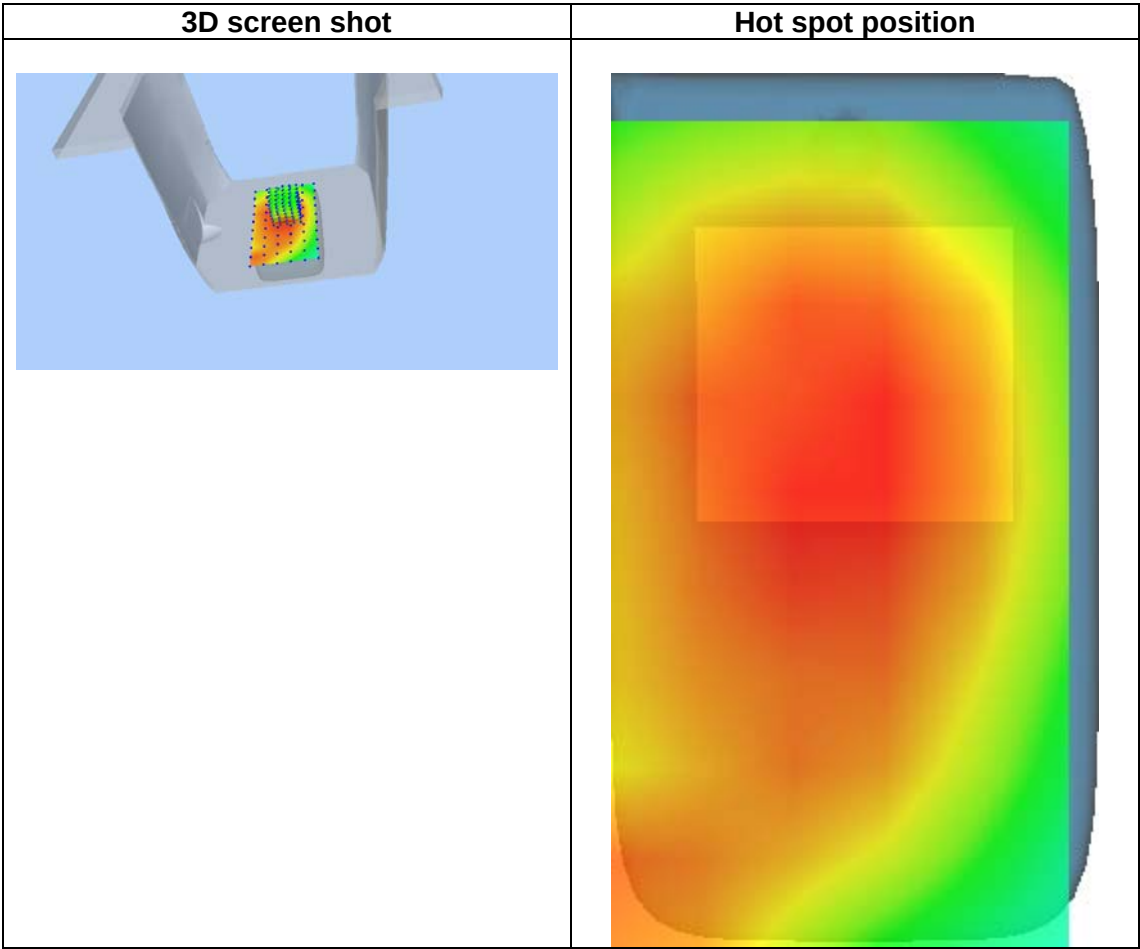
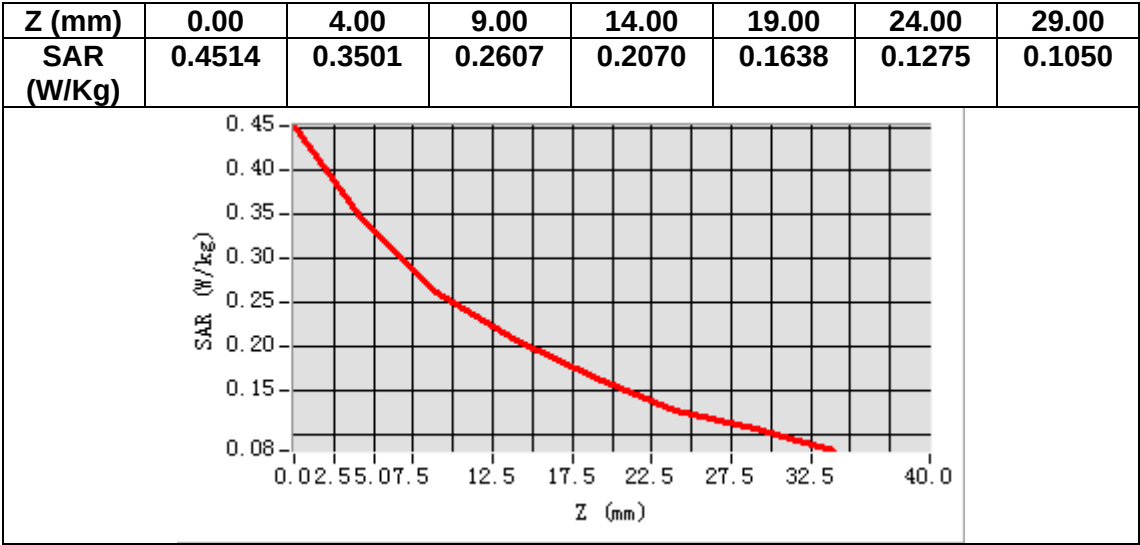
VOLUME SAR



Maximum location: X=1.00, Y=8.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.256264
SAR 1g (W/Kg)	0.345384



MEASUREMENT 27

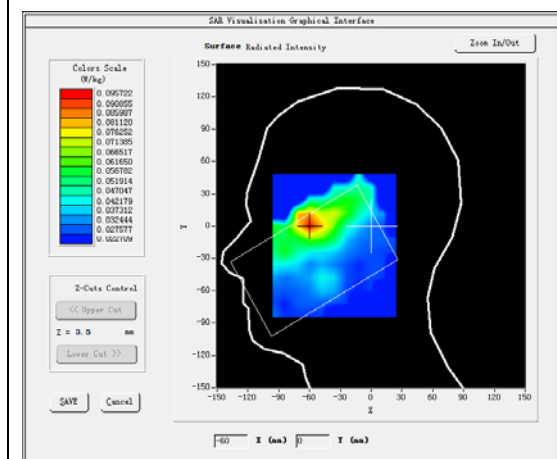
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

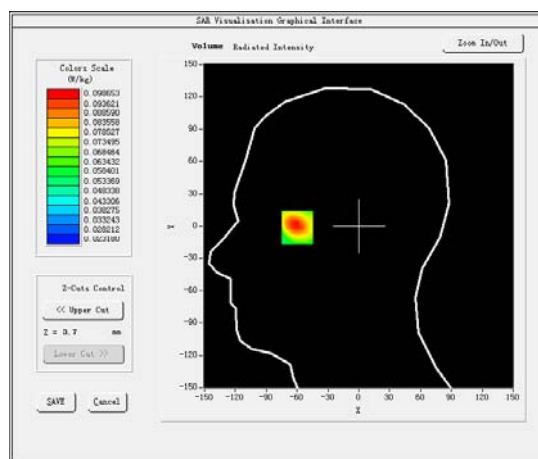
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.322487
Relative permittivity (imaginary part)	14.021160
Conductivity (S/m)	1.974647
Variation (%)	-2.710000

SURFACE SAR



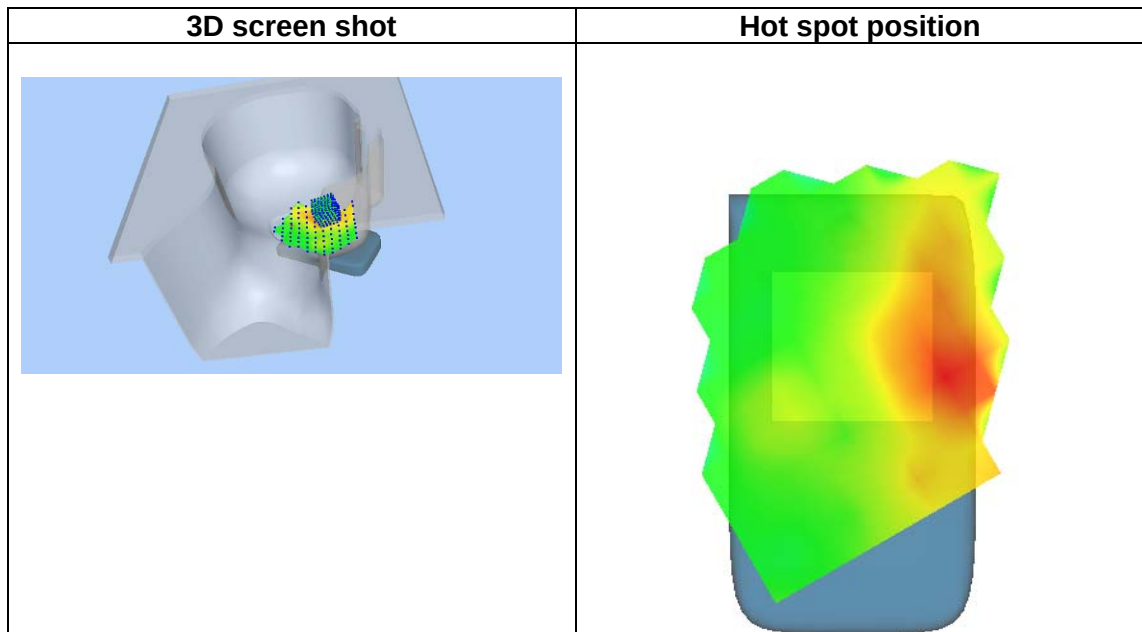
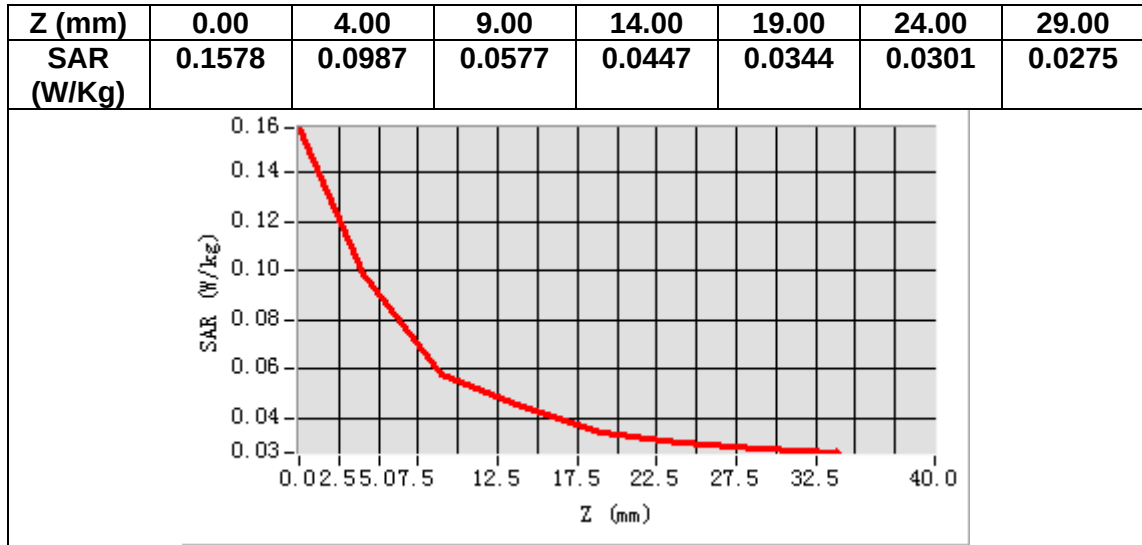
VOLUME SAR



Maximum location: X=-60.00, Y=1.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.061119
SAR 1g (W/Kg)	0.096360



MEASUREMENT 28

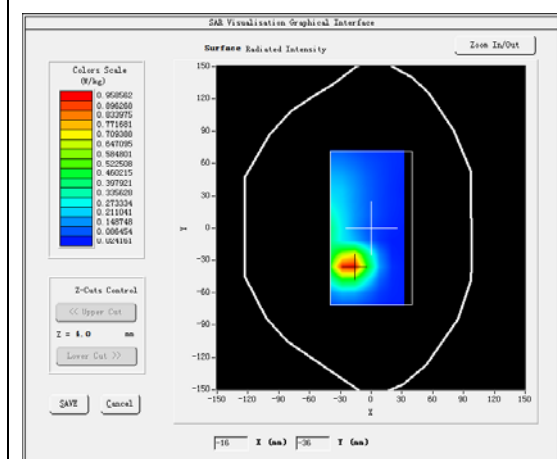
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

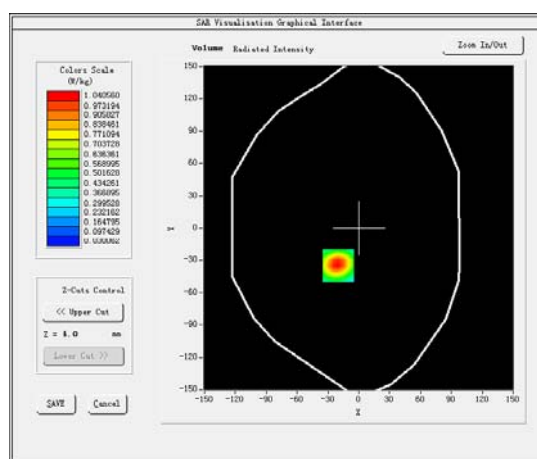
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	52.796946
Relative permittivity (imaginary part)	15.247840
Conductivity (S/m)	1.974647
Variation (%)	0.010000

SURFACE SAR



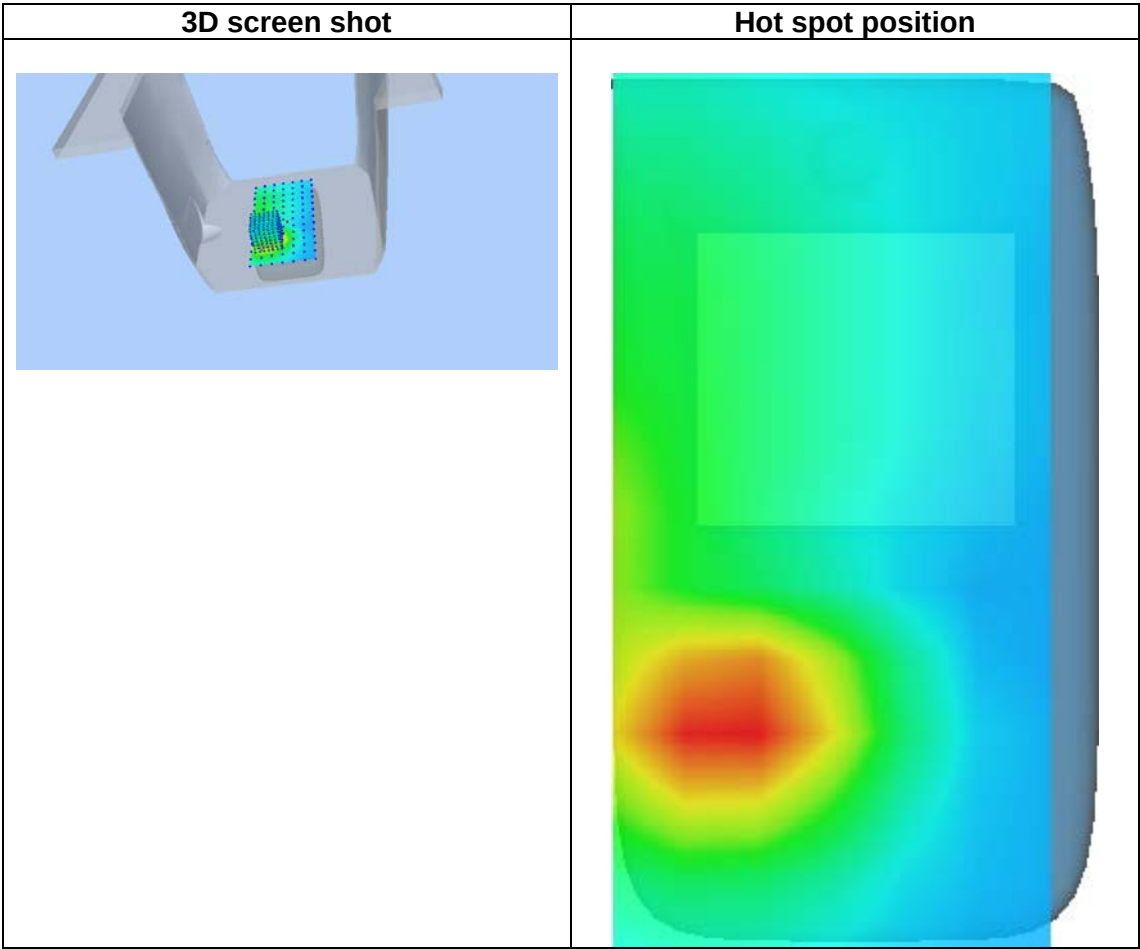
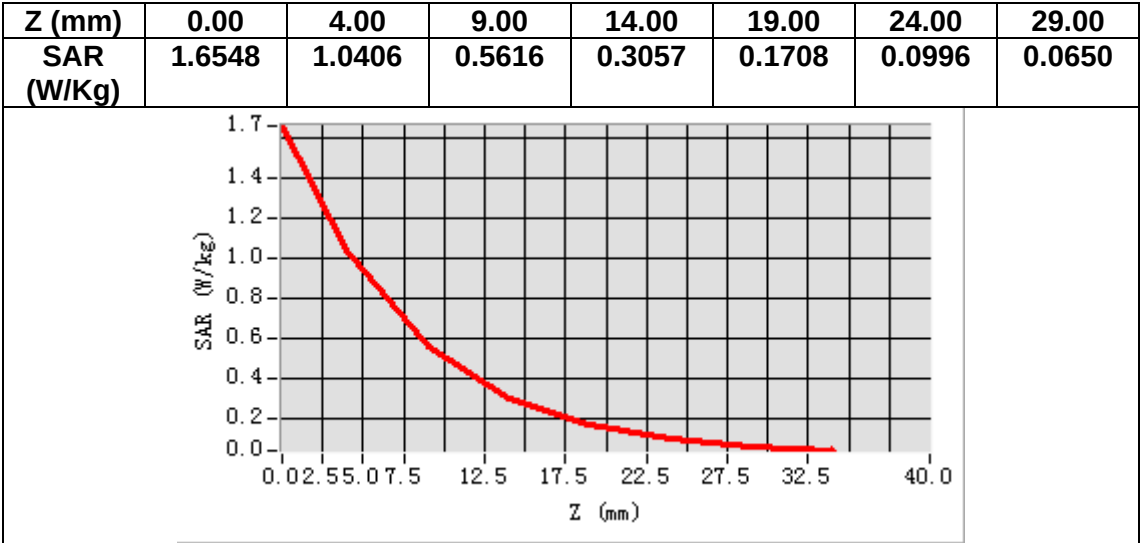
VOLUME SAR



Maximum location: X=-20.00, Y=-35.00

SAR Peak: 1.68 W/kg

SAR 10g (W/Kg)	0.403757
SAR 1g (W/Kg)	0.798978



MEASUREMENT 29

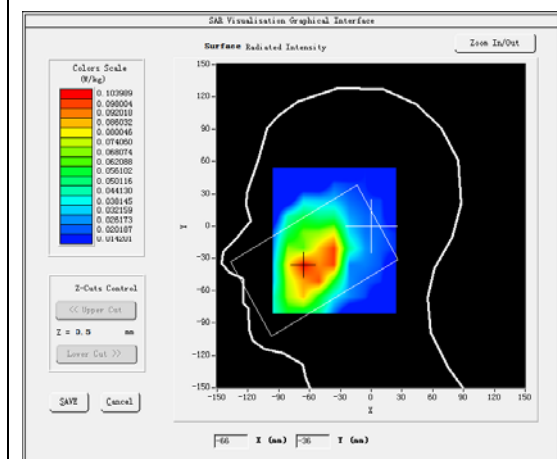
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

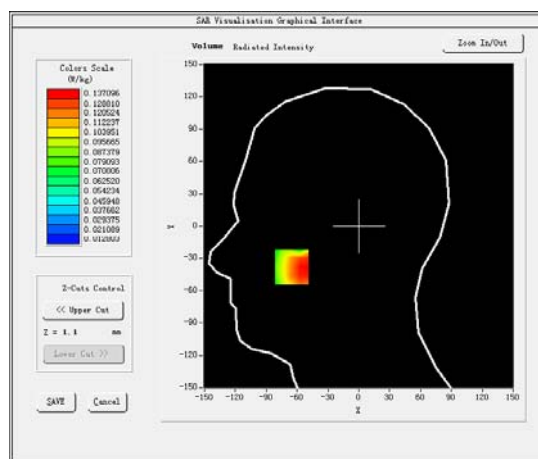
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	41.899712
Relative permittivity (imaginary part)	21.931179
Conductivity (S/m)	0.865063
Variation (%)	3.150000

SURFACE SAR



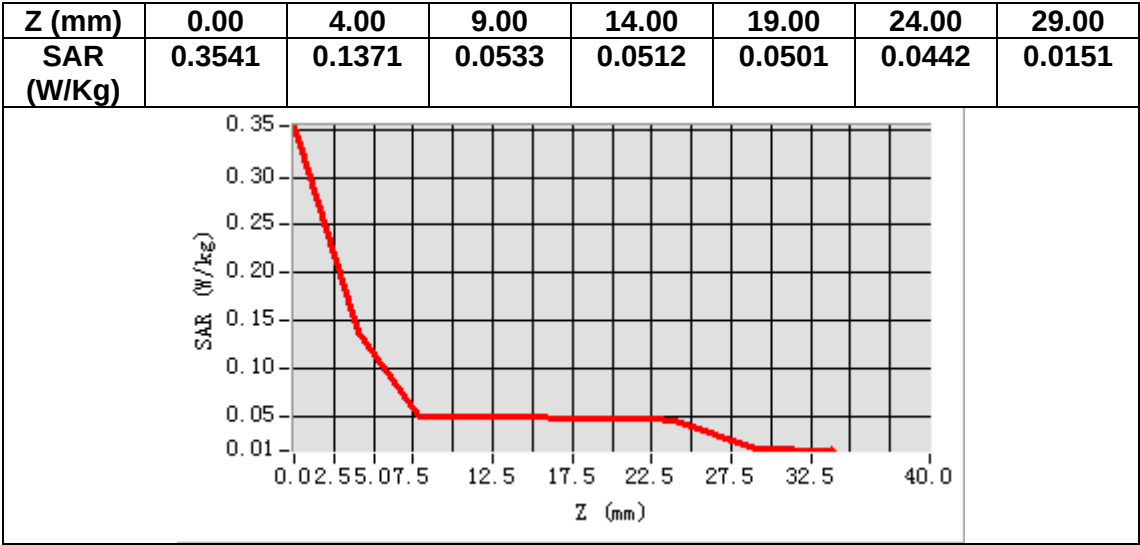
VOLUME SAR



Maximum location: X=-65.00, Y=-38.00

SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.109412
SAR 1g (W/Kg)	0.159693



MEASUREMENT 30

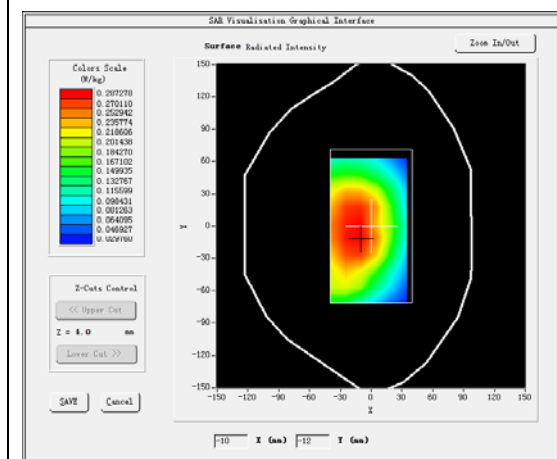
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 17</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

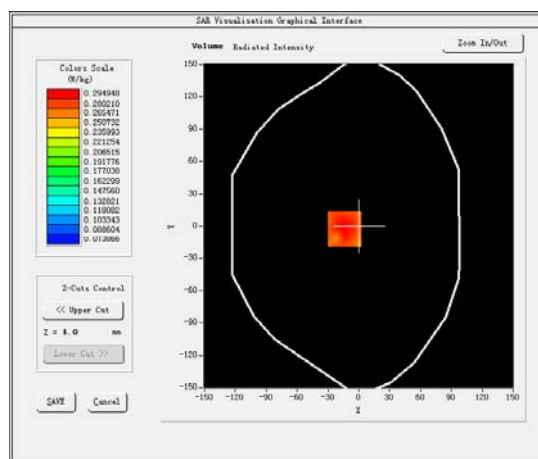
B. SAR Measurement Results

Frequency (MHz)	710.000000
Relative permittivity (real part)	55.746712
Relative permittivity (imaginary part)	23.720501
Conductivity (S/m)	0.935642
Variation (%)	-0.770000

SURFACE SAR



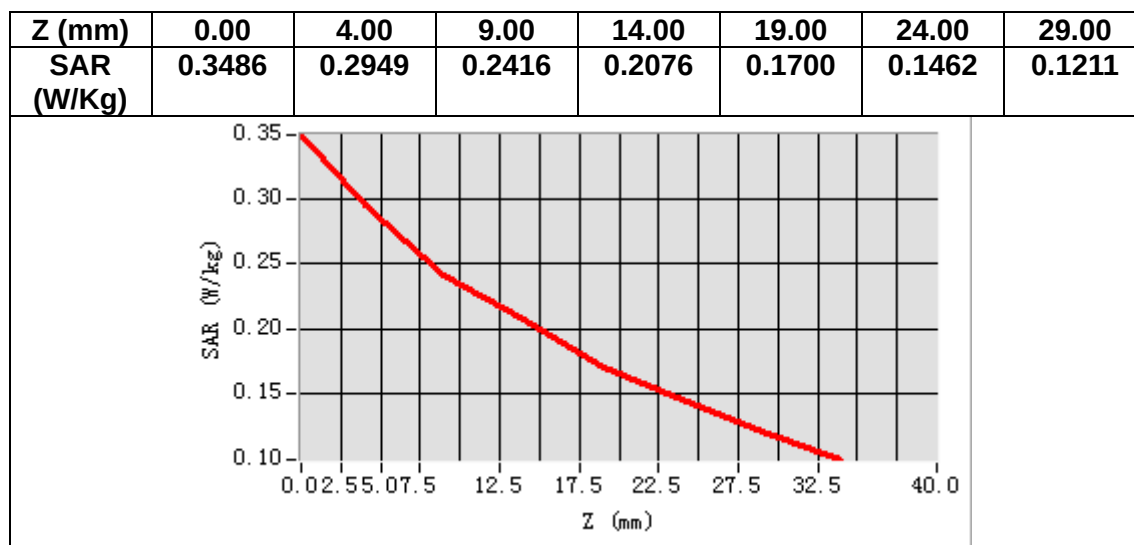
VOLUME SAR

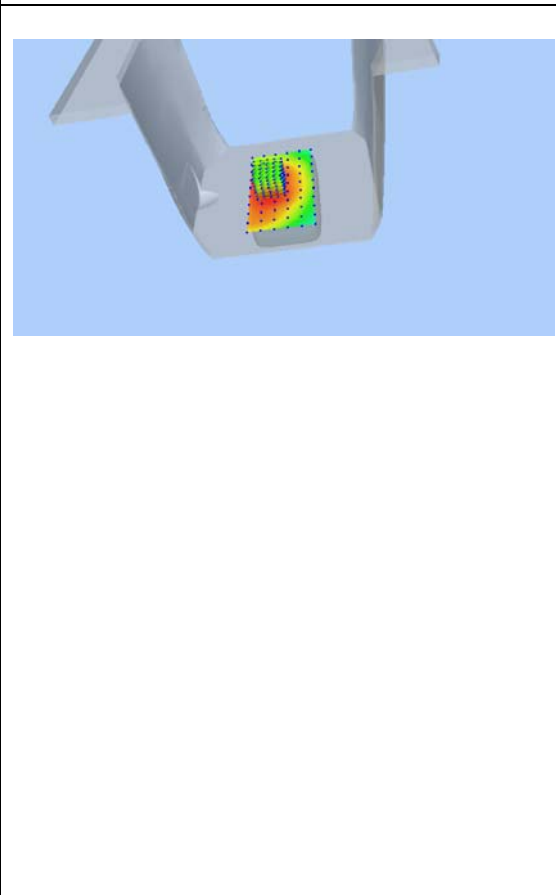
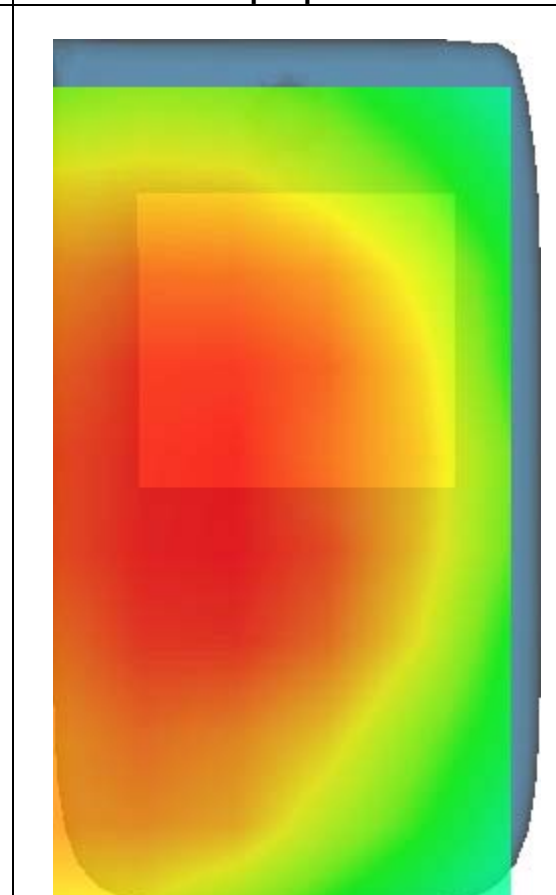


Maximum location: X=-14.00, Y=-3.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.229860
SAR 1g (W/Kg)	0.281320



3D screen shot	Hot spot position
 A 3D rendering of a robotic arm, specifically the gripper section, shown in a light blue color. The gripper is holding a rectangular object. On the surface of this object, there is a grid of small dots. These dots are color-coded, with a concentration of red and orange dots in the center, transitioning to yellow, green, and finally blue towards the edges, indicating a heat map or hot spot distribution.	 A 2D visualization of the hot spot position. It shows a rectangular area with a color gradient. The top-left corner is red, indicating the highest intensity or 'hottest' spot. The color transitions through orange and yellow to green and finally blue towards the bottom-right corner, representing a decreasing intensity or temperature gradient across the area.

MEASUREMENT 31

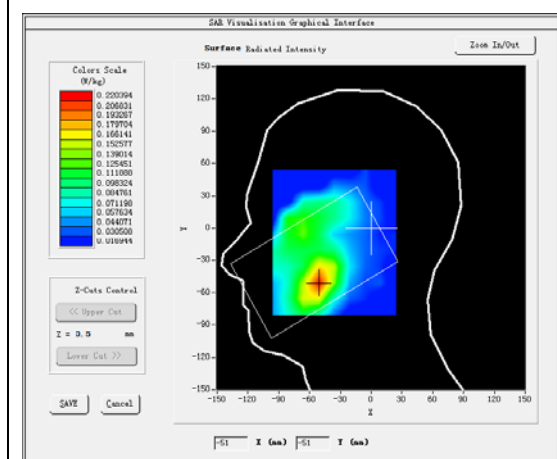
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

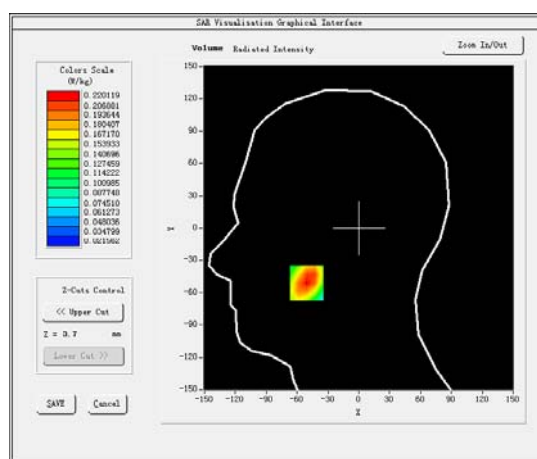
B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative permittivity (real part)	38.693489
Relative permittivity (imaginary part)	14.108142
Conductivity (S/m)	1.367706
Variation (%)	2.250000

SURFACE SAR



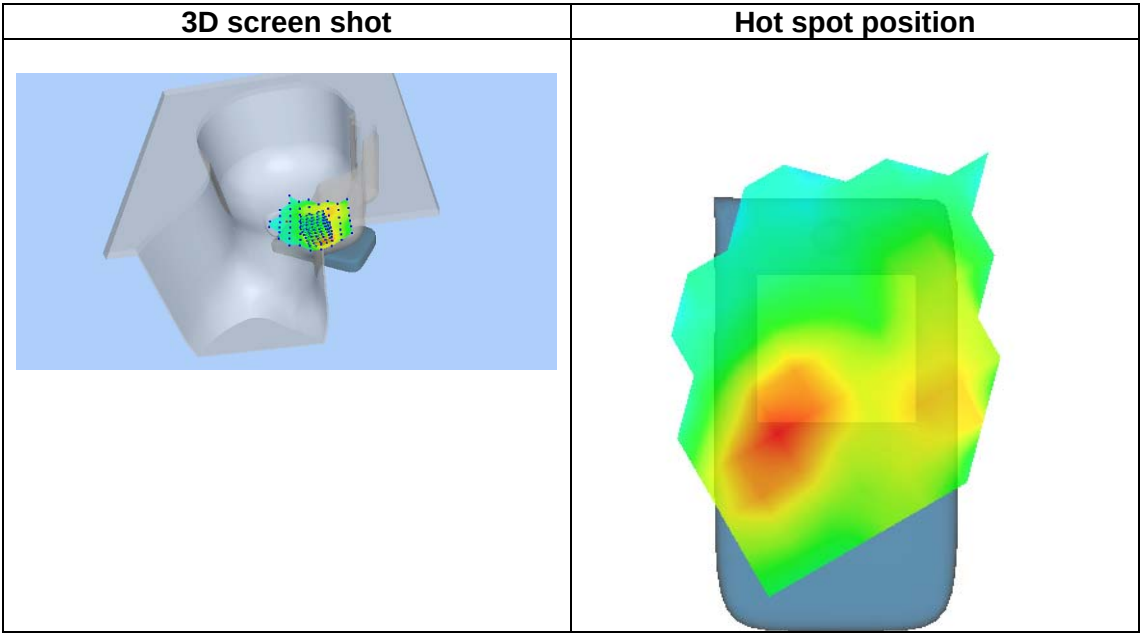
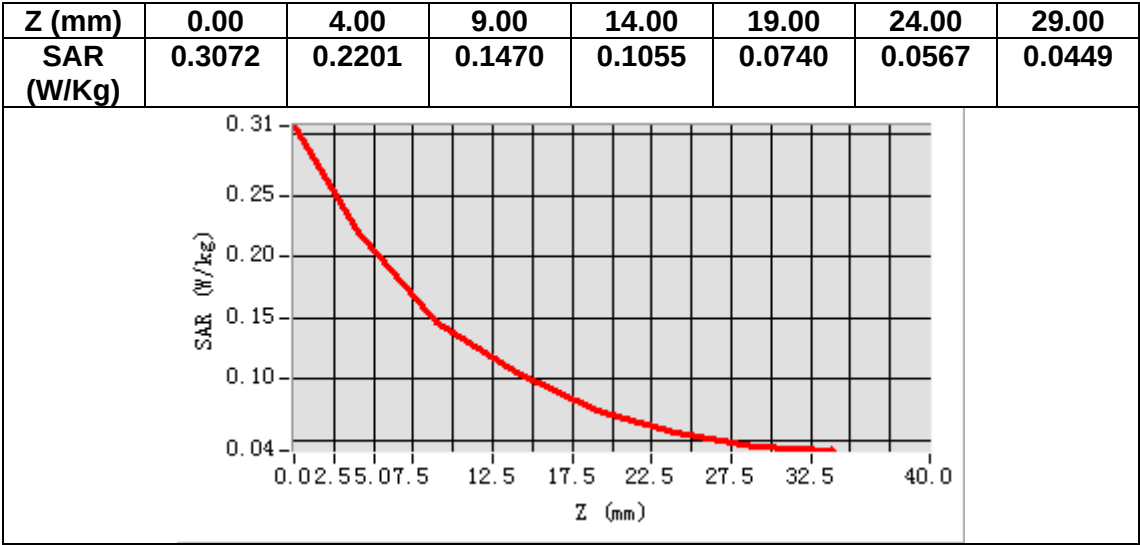
VOLUME SAR



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

SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.135650
SAR 1g (W/Kg)	0.212841



MEASUREMENT 32

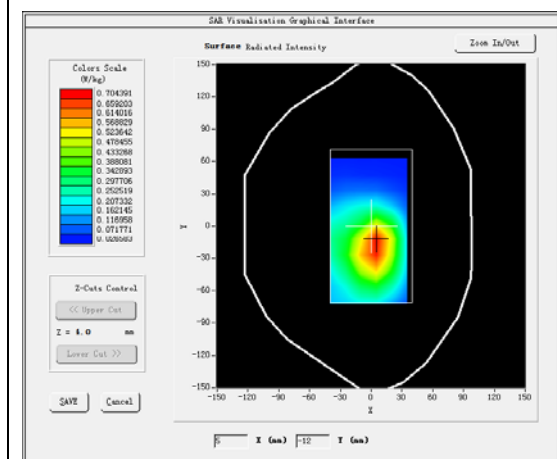
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

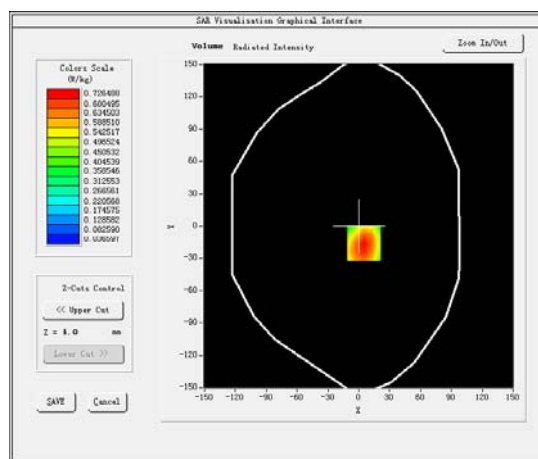
B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative permittivity (real part)	53.411266
Relative permittivity (imaginary part)	15.492170
Conductivity (S/m)	1.501880
Variation (%)	-0.330000

SURFACE SAR



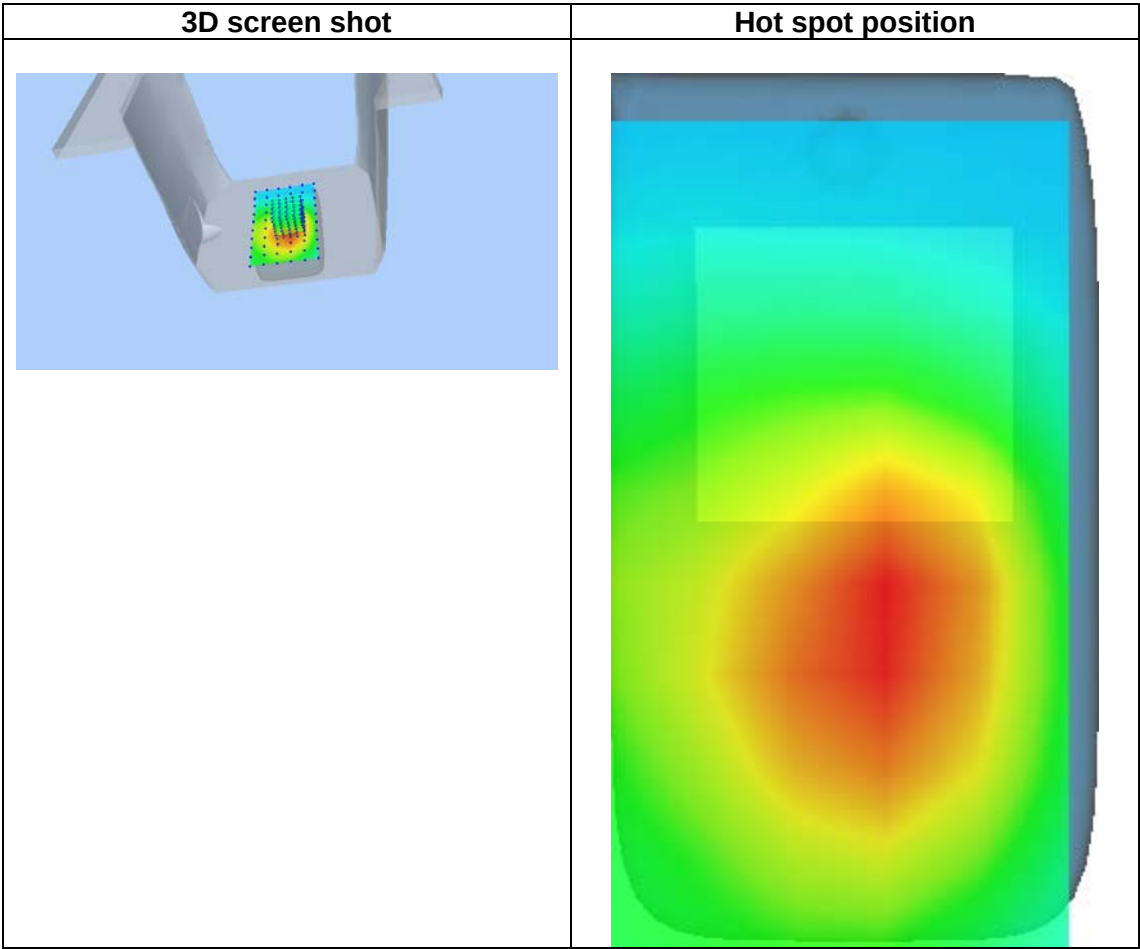
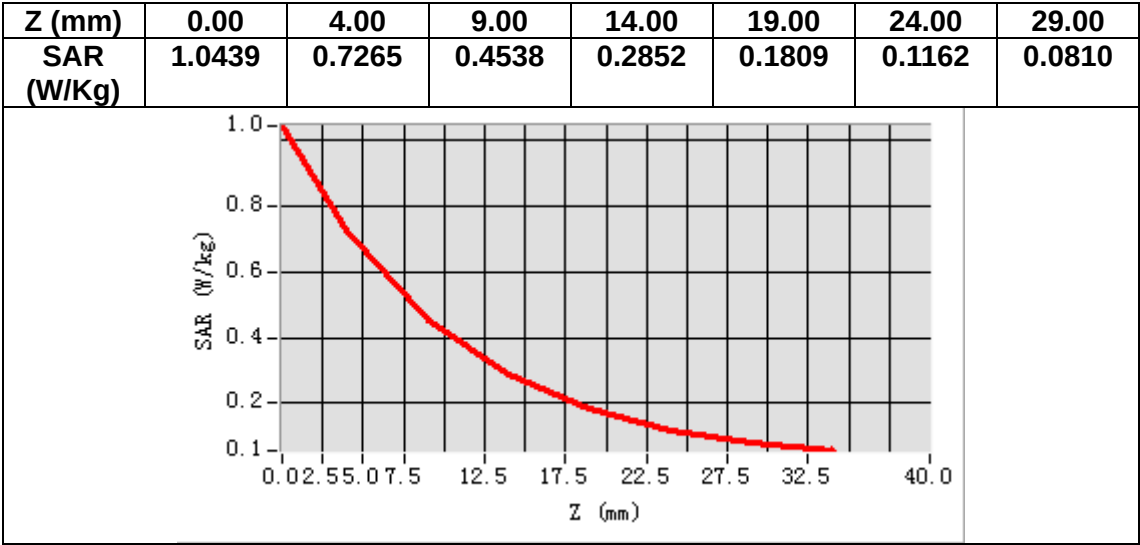
VOLUME SAR



Maximum location: X=5.00, Y=-16.00

SAR Peak: 1.05 W/kg

SAR 10g (W/Kg)	0.430561
SAR 1g (W/Kg)	0.699499



14. Appendix D. Calibration Certificate

Table of contents
E Field Probe - SN 08/16 EPGO287
750 MHz Dipole - SN 03/15 DIP 0G750-355
835 MHz Dipole - SN 03/15 DIP 0G835-347
1800 MHz Dipole - SN 03/15 DIP 1G800-349
1900 MHz Dipole - SN 03/15 DIP 1G900-350
2450 MHz Dipole - SN 03/15 DIP 2G450-352
2600 MHz Dipole - SN 03/15 DIP 2G600-356
5000-6000 MHz Dipole - SN 13/14 WGA 33