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： Smart Phone

Trademark： F150

Model Name： Bison2021

Family Model： N/A

Report No.： S20102202702001

FCC ID： 2ANMU-BISON2021

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Manufacturer's Name	Shenzhen KaiCheng Technology Co. Ltd
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Product description

Product name	Smart Phone
Trademark	F150
Model Name	Bison2021
Family Model	N/A
Standards	FCC 47 CFR Part 2(2.1093) ANSI/IEEE C95.1-1992 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.

Date of Test

Date (s) of performance of tests	Nov. 04, 2020 ~ Nov. 15, 2020
Date of Issue	Nov. 20, 2020
Test Result	**Pass**

Prepared By (Test Engineer) : Cheng Jiawen

(Cheng Jiawen)

Approved By (Lab Manager) : Alex

(Alex Li)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Nov. 20, 2020	Cheng Jiawen

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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 Bison2021 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.657	0.273	0.491	N/A
1-g Body-Worn (Separation distance of 10mm)		0.764	0.071	0.511	N/A
1-g Hotspot (Separation distance of 10mm)		0.764	0.071	N/A	N/A
Max Simultaneous Tx	Head	1.148	0.930	1.148	0.867
	Body-Worn	1.275	0.835	1.275	0.869
	Hotspot	1.275	0.835	N/A	0.869

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	Smart Phone		
Trade Name	F150		
Model Name	Bison2021		
Family Model	N/A		
FCC ID	2ANMU-BISON2021		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna	PIFA Antenna		
Battery Information	3.85V, 8000mAh		
Device Operating Configurations			
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/17, WLAN 2.4G/5G, Bluetooth, NFC		
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, π/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
	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 12	699-716	729-746
	LTE Band 17	704-716	734-746
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.3G	5260-5320	
	WLAN 5.6G	5500-5700	
	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 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 12)		
	3, tested with power control all Max.(LTE Band 17)		

1.4. Test specification(s)

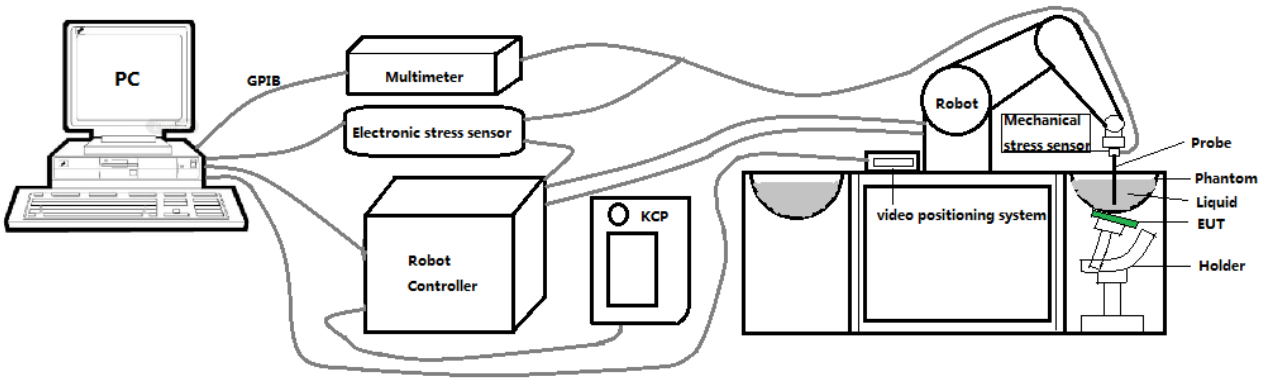
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 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 ±10%. The spherical isotropy shall be evaluated and within ±0.25dB. 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.

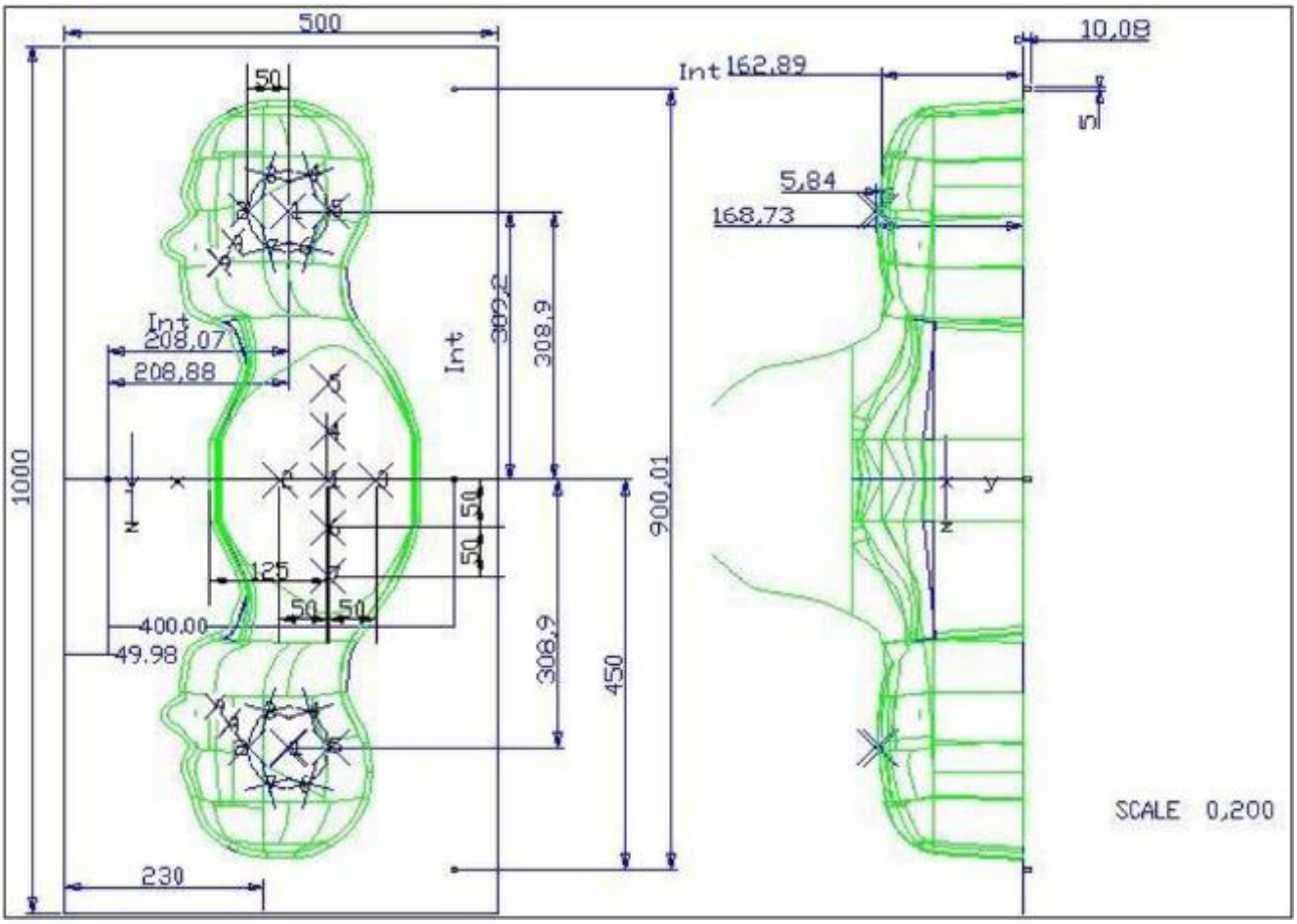
2.4. SAM phantoms

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

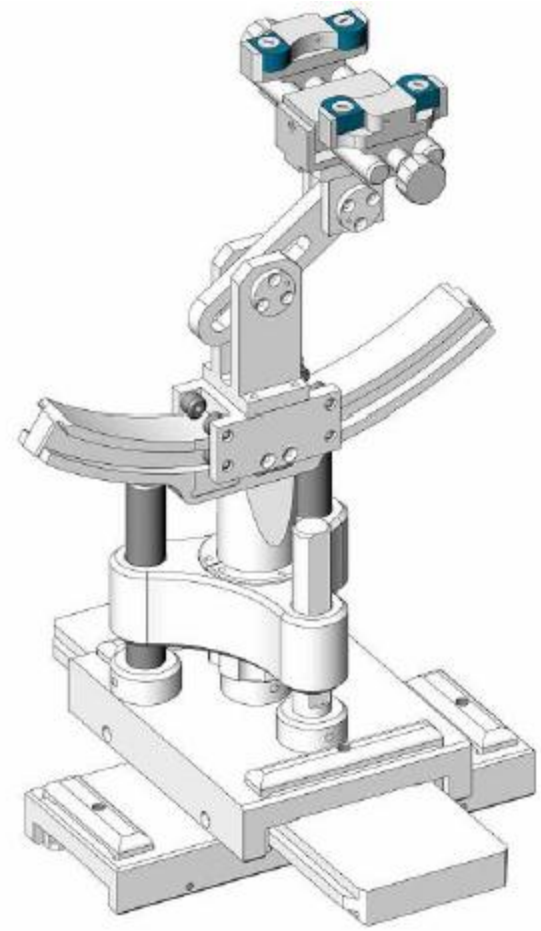


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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	Jul. 13, 2020	Jul. 12, 2021
☒	R&S	Wideband radio communication tester	CMW500	103917	Jul. 13, 2020	Jul. 12, 2021
☒	HP	Network Analyzer	8753D	3410J01136	Jul. 13, 2020	Jul. 12, 2021
☒	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 13, 2020	Jul. 12, 2021

☒	Agilent	Power meter	E4419B	MY45102538	Jul. 13, 2020	Jul. 12, 2021
☒	Agilent	Power sensor	E9301A	MY41495644	Jul. 13, 2020	Jul. 12, 2021
☒	Agilent	Power sensor	E9301A	US39212148	Jul. 13, 2020	Jul. 12, 2021
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 17, 2020	Jul. 16, 2023

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.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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.</td></tr>
</table>

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 ±5%, the SAR will be retested.

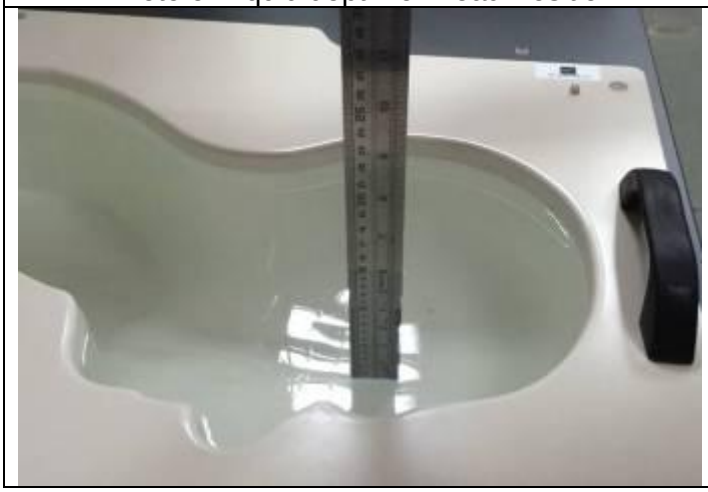
4. System Verification Procedure

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 of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within ±5% of the target values.

Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		εr (±5%)	σ (S/m) (±5%)	εr	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93）	41.61	0.92	21.2 °C	Nov. 07, 2020
Body 750	750	55.55 (52.77~58.33)	0.96 (0.91~1.01)	55.54	0.97	21.2 °C	Nov. 08, 2020
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	40.84	0.92	21.5 °C	Nov. 04, 2020
Body 850	835	55.20 (52.44~57.96)	0.97 (0.92~1.02)	54.57	0.98	21.5 °C	Nov. 12, 2020
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.66	1.38	21.3 °C	Nov. 07, 2020
Body 1800	1800	53.30 (50.64~55.97)	1.52 (1.44~1.60)	54.10	1.51	21.2 °C	Nov. 09, 2020
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.72	1.43	21.5 °C	Nov. 04, 2020
Body 1900	1900	53.30 (50.64~55.97)	1.52 (1.44~1.60)	54.31	1.53	21.4 °C	Nov. 12, 2020
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.61	1.84	21.5 °C	Nov. 14, 2020
Body 2450	2450	52.70 (50.07~55.34)	1.95 (1.85~2.05)	51.59	1.88	21.5 °C	Nov. 15, 2020
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	38.16	2.02	21.4 °C	Nov. 08, 2020
Body 2600	2600	52.51 (49.88~55.14)	2.16 (2.05~2.27)	52.86	2.21	21.6 °C	Nov. 09, 2020
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	35.70	4.64	21.5 °C	Nov. 10, 2020
Body 5200	5200	49.00 (46.55~51.45)	5.30 (5.04~5.57)	49.70	5.25	21.5 °C	Nov. 13, 2020
Head 5400	5400	35.80 (34.01~37.59)	4.86 (4.62~5.10)	35.55	4.91	21.3 °C	Nov. 10, 2020
Body 5400	5400	48.70 (46.27~51.14)	5.53 (5.25~5.81)	49.58	5.49	21.6 °C	Nov. 06, 2020

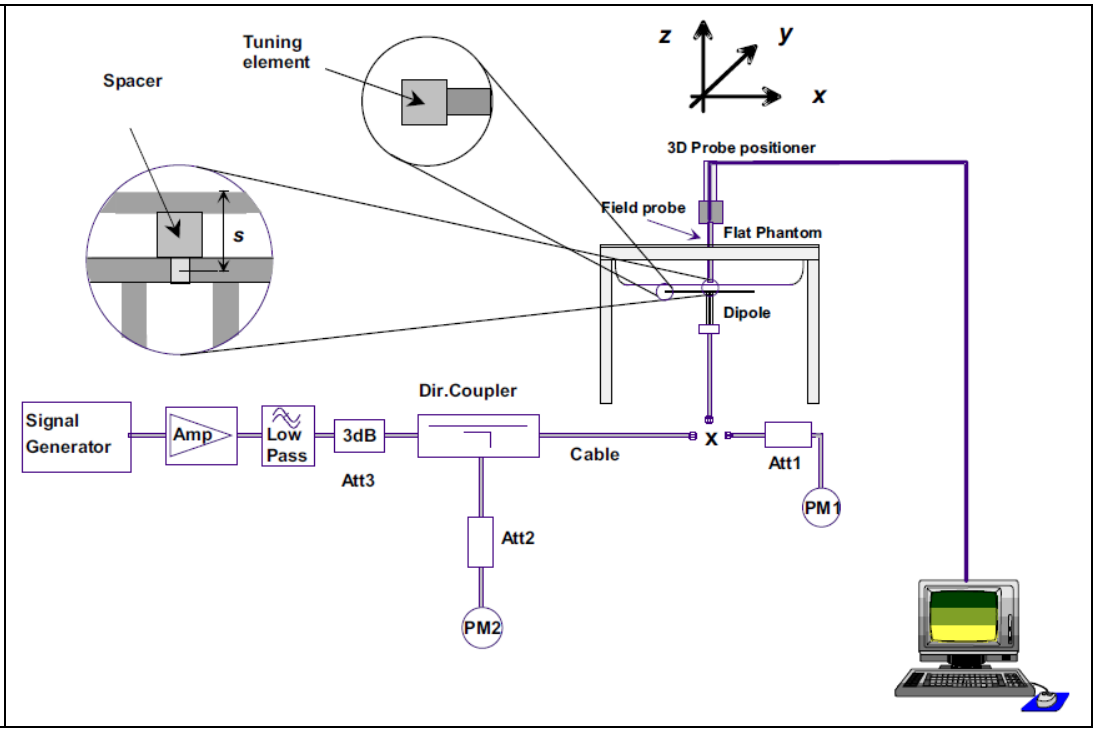
Head 5600	5600	35.50 (33.73~37.28)	5.07 (4.82~5.32)	35.68	5.06	21.9 °C	Nov. 11, 2020
Body 5600	5600	48.50 (46.08~50.93)	5.77 (5.48~6.06)	49.91	5.67	21.6 °C	Nov. 06, 2020
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	34.61	5.22	21.9 °C	Nov. 11, 2020
Body 5800	5800	48.20 (45.79~50.61)	6.00 (5.70~6.30)	48.36	6.06	21.2 °C	Nov. 13, 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 ±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)	8.99	5.53	21.2 °C	Nov. 07, 2020
750MHz Body	8.85 (7.97~9.74)	5.91 (5.32~6.50)	9.25	6.02	21.2 °C	Nov. 08, 2020
835MHz Head	9.55 (8.60~10.51)	6.10 (5.49~6.71)	10.15	6.15	21.5 °C	Nov. 04, 2020
835MHz Body	9.83 (8.85~10.81)	6.45 (5.81~7.10)	9.23	6.33	21.5 °C	Nov. 12, 2020
1800MHz Head	38.11 (34.30~41.92)	20.05 (18.05~22.06)	38.91	20.97	21.3 °C	Nov. 07, 2020
1800MHz Body	38.13 (34.32~41.94)	20.65 (18.59~22.72)	39.30	19.82	21.2 °C	Nov. 09, 2020
1900MHz Head	38.92 (35.03~42.81)	20.09 (18.08~22.10)	40.83	20.83	21.5 °C	Nov. 04, 2020
1900MHz Body	39.02 (35.12~42.92)	20.57 (18.51~22.63)	39.01	20.56	21.4 °C	Nov. 12, 2020
2450MHz Head	53.76 (48.38~59.14)	24.12 (21.71~26.53)	53.30	24.88	21.5 °C	Nov. 14, 2020
2450MHz Body	52.90 (47.61~58.19)	24.09 (21.68~26.50)	53.46	24.77	21.5 °C	Nov. 15, 2020
2600MHz Head	55.60 (50.04~61.16)	24.60 (22.14~27.06)	55.31	23.29	21.4 °C	Nov. 08, 2020
2600MHz Body	52.49 (47.24~57.74)	23.74 (21.37~26.11)	56.12	23.34	21.6 °C	Nov. 09, 2020
5200MHz Head	160.94 (144.85~177.03)	55.97 (50.37~61.57)	156.52	54.47	21.5 °C	Nov. 10, 2020
5200MHz Body	156.85 (141.17~172.54)	55.20 (49.68~60.72)	159.67	56.57	21.5 °C	Nov. 13, 2020
5400MHz Head	170.60 (153.54~187.66)	58.93 (53.04~64.82)	164.54	58.51	21.3 °C	Nov. 10, 2020

5400MHz Body	163.97 (147.57~180.37)	57.26 (51.53~62.98)	169.12	58.13	21.6 °C	Nov. 06, 2020
5600MHz Head	175.02 (157.52~192.52)	59.90 (53.91~65.89)	169.10	59.44	21.9 °C	Nov. 11, 2020
5600MHz Body	166.58 (149.92~183.24)	57.87 (52.08~63.66)	166.56	57.82	21.6 °C	Nov. 06, 2020
5800MHz Head	184.13 (165.72~202.54)	62.74 (56.47~69.01)	187.86	64.54	21.9 °C	Nov. 11, 2020
5800MHz Body	169.30 (152.37~186.23)	58.49 (52.64~64.34)	166.81	57.43	21.2 °C	Nov. 13, 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 (~ 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.

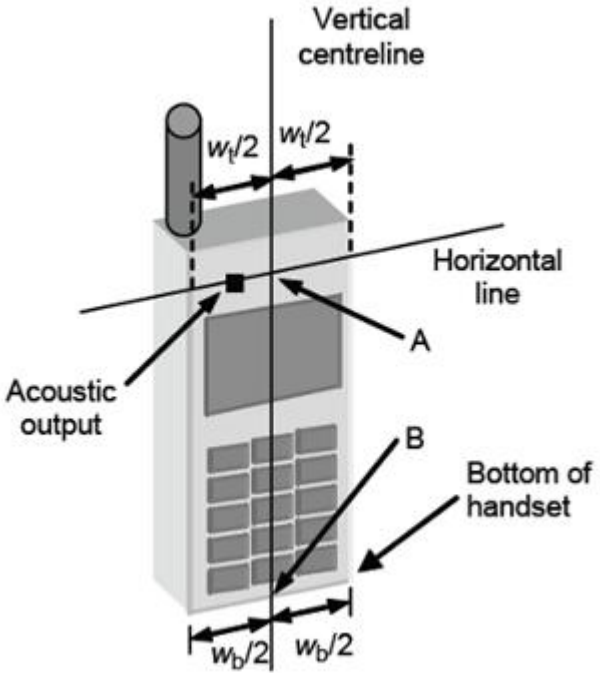


Fig 6.2.1 Handset vertical and horizontal reference lines—"fixed case

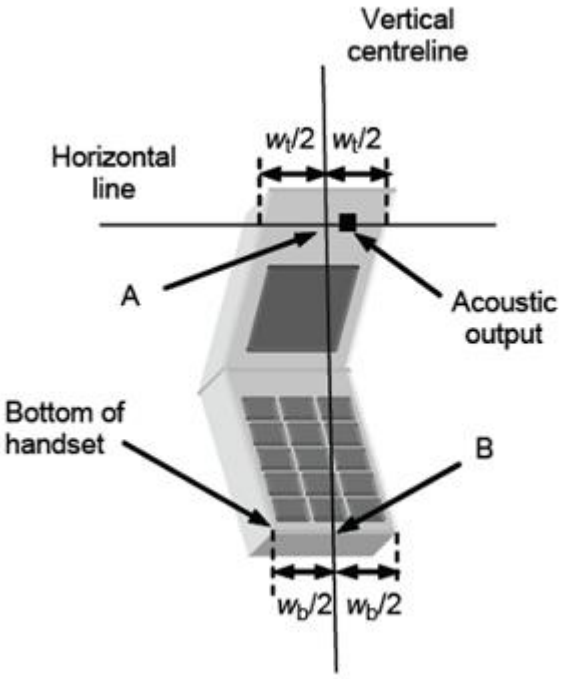


Fig 6.2.2 Handset vertical and horizontal reference lines— "clam-shell case"

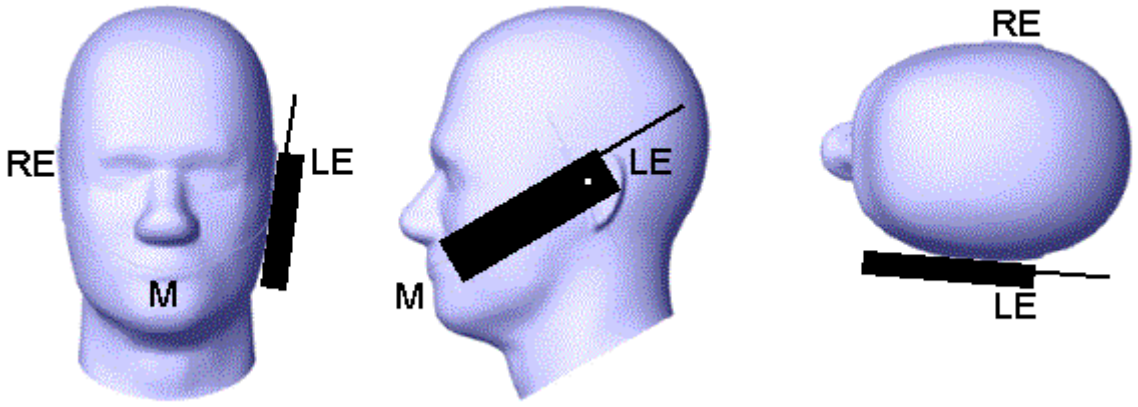


Fig 6.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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.

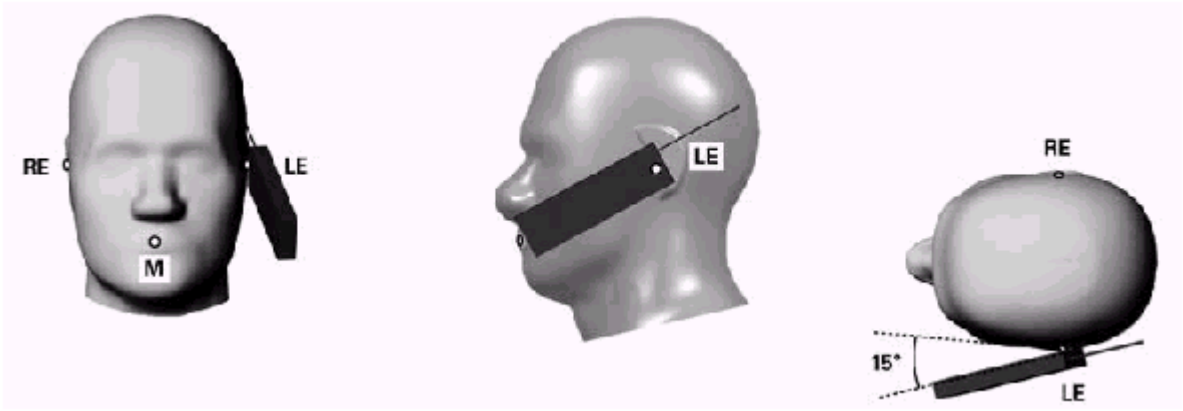


Figure 6.3.1 – Tilt position of the wireless device on the left side of SAM

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 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-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

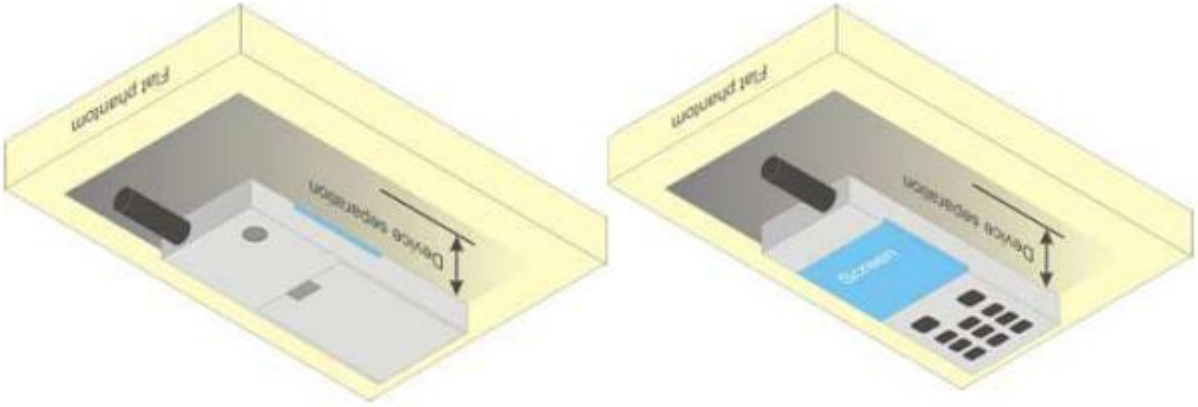


Figure 6.4.1 – Test positions for body-worn devices

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 x W ≥ 9 cm x 5 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 form 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)	28.00	26.29	26.99	27.19	18.97	17.26	17.96	18.16
GPRS(GMSK, 1 TS)	27.00	25.24	25.90	27.00	17.97	16.21	16.87	17.97
GPRS(GMSK, 2 TS)	26.00	24.42	24.93	26.00	19.98	18.40	18.91	19.98
GPRS(GMSK, 3 TS)	24.00	22.55	23.15	24.00	19.74	18.29	18.89	19.74
GPRS(GMSK, 4 TS)	23.00	21.30	22.00	23.00	19.99	18.29	18.99	19.99
EDGE(GMSK, 1 TS)	21.00	20.31	20.60	20.88	11.97	11.28	11.57	11.85
EDGE(GMSK, 2 TS)	19.00	17.02	18.16	18.72	12.98	11.00	12.14	12.70
EDGE(GMSK, 3 TS)	17.00	15.38	15.74	17.00	12.74	11.12	11.48	12.74
EDGE(GMSK, 4 TS)	16.00	14.02	14.33	15.71	12.99	11.01	11.32	12.70
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)	28.00	26.98	27.33	28.00	18.97	17.95	18.30	18.97
GPRS(GMSK, 1 TS)	28.00	26.07	27.39	28.00	18.97	17.04	18.36	18.97
GPRS(GMSK, 2 TS)	27.00	25.36	26.65	27.00	20.98	19.34	20.63	20.98
GPRS(GMSK, 3 TS)	25.00	23.68	24.93	25.00	20.74	19.42	20.67	20.74
GPRS(GMSK, 4 TS)	24.00	22.61	23.85	24.00	20.99	19.60	20.84	20.99
EDGE(GMSK, 1 TS)	24.00	22.33	22.92	23.17	14.97	13.30	13.89	14.14
EDGE(GMSK, 2 TS)	22.00	21.17	21.61	21.79	15.98	15.15	15.59	15.77
EDGE(GMSK, 3 TS)	20.00	19.31	19.78	19.97	15.74	15.05	15.52	15.71
EDGE(GMSK, 4 TS)	19.00	18.11	18.53	18.86	15.99	15.10	15.52	15.85

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	22.00	20.42	21.20	21.61
HSDPA Subtest-1	21.00	19.40	20.21	20.63
HSDPA Subtest-2	20.00	18.91	19.82	20.00
HSDPA Subtest-3	20.00	18.03	18.50	19.21
HSDPA Subtest-4	20.00	18.07	18.92	19.25
HSUPA Subtest-1	21.00	19.29	20.05	20.52
HSUPA Subtest-2	21.00	19.34	20.12	20.50
HSUPA Subtest-3	20.00	18.18	18.94	19.45
HSUPA Subtest-4	21.00	19.44	20.25	20.64
HSUPA Subtest-5	20.00	18.74	19.57	19.96
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1413	1512
Frequency (MHz)		1712.4	1732.6	1752.6
RMC 12.2Kbps	22.00	21.55	21.05	20.00
HSDPA Subtest-1	20.00	18.00	19.99	18.86
HSDPA Subtest-2	20.00	20.00	19.59	18.37
HSDPA Subtest-3	19.00	18.71	18.67	17.46
HSDPA Subtest-4	20.00	19.26	18.45	18.00
HSUPA Subtest-1	21.00	20.42	19.75	19.00
HSUPA Subtest-2	21.00	20.48	19.94	19.00
HSUPA Subtest-3	20.00	19.58	18.76	18.00
HSUPA Subtest-4	21.00	20.49	20.00	19.00
HSUPA Subtest-5	20.00	19.93	19.23	18.28
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC 12.2Kbps	19.00	17.06	18.29	17.89
HSDPA Subtest-1	19.00	18.37	18.38	18.49
HSDPA Subtest-2	19.00	17.81	17.95	18.07
HSDPA Subtest-3	18.00	16.58	17.02	16.82
HSDPA Subtest-4	17.00	16.80	16.50	16.94
HSUPA Subtest-1	19.00	18.00	18.42	18.52
HSUPA Subtest-2	19.00	17.80	18.14	18.45
HSUPA Subtest-3	18.00	17.04	17.34	17.34

HSUPA Subtest-4	19.00	18.58	18.52	18.62
HSUPA Subtest-5	18.00	17.48	17.89	17.87

7.3. 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	21.00	19.58	20.15	20.67
			1	2	21.00	19.64	20.29	20.75
			1	5	21.00	19.55	20.16	20.68
			3	0	21.00	19.57	20.17	20.72
			3	1	21.00	19.59	20.23	20.72
			3	2	21.00	19.58	20.21	20.73
			6	0	20.00	18.59	19.19	19.71
		16QAM	1	0	20.00	18.40	19.27	19.85
			1	2	20.00	18.54	19.41	19.98
			1	5	20.00	18.43	19.30	19.91
			3	0	20.00	18.73	19.36	19.92
			3	1	20.00	18.74	19.36	19.93
			3	2	20.00	18.76	19.35	19.94
			6	0	19.00	17.73	18.33	18.85
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	21.00	19.59	20.29	20.72
			1	7	21.00	19.99	20.54	20.98
			1	14	21.00	19.74	20.29	20.72
			8	0	20.00	18.59	19.24	19.75
			8	4	20.00	18.67	19.28	19.78
			8	7	20.00	18.67	19.24	19.75
			15	0	20.00	18.60	19.19	19.69
		16QAM	1	0	20.00	18.72	19.10	20.00
			1	7	20.00	19.06	19.38	20.00
			1	14	20.00	18.89	19.11	20.00
			8	0	19.00	17.60	18.19	18.74
			8	4	19.00	17.65	18.19	18.77
			8	7	19.00	17.65	18.20	18.73

			15	0	19.00	17.53	18.24	18.71
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	21.00	19.52	20.12	20.61
			1	12	21.00	20.14	20.61	20.11
			1	24	21.00	19.72	20.15	20.68
			12	0	20.00	18.66	19.22	19.75
			12	6	20.00	18.75	19.24	19.79
			12	11	20.00	18.76	19.17	19.70
			25	0	20.00	18.70	19.20	19.72
		16QAM	1	0	20.00	18.85	19.39	20.00
			1	12	20.00	19.34	19.81	20.00
			1	24	20.00	19.03	19.51	20.00
			12	0	19.00	17.57	18.22	18.70
			12	6	19.00	17.65	18.27	18.78
			12	11	19.00	17.68	18.15	18.69
			25	0	19.00	17.72	18.18	18.66
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	21.00	19.59	20.22	20.58
			1	24	21.00	19.95	20.37	20.75
			1	49	21.00	19.92	20.30	20.80
			25	0	20.00	18.79	19.28	19.66
			25	12	20.00	18.83	19.22	19.65
			25	24	20.00	18.92	19.18	19.66
			50	0	20.00	18.87	19.25	19.61
		16QAM	1	0	20.00	18.75	19.08	20.00
			1	24	20.00	19.08	19.19	20.00
			1	49	20.00	19.09	19.18	20.00
			25	0	19.00	17.79	18.30	18.63
			25	12	19.00	17.83	18.26	18.65
			25	24	19.00	17.97	18.21	18.67
			50	0	19.00	17.89	18.21	18.62
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB	RB		18675/1857.5	18900/1880	19125/1902.5

			Size	Offset				
LTE Band 2	15MHz	QPSK	1	0	21.00	19.53	20.13	20.50
			1	37	21.00	20.19	20.57	20.75
			1	74	21.00	19.89	20.33	20.68
			36	0	20.00	18.87	19.32	19.57
			36	18	20.00	18.99	19.32	19.70
			36	37	20.00	19.07	19.25	19.66
			75	0	20.00	18.95	19.26	19.62
		16QAM	1	0	20.00	18.76	19.57	19.68
			1	37	20.00	19.28	19.98	20.00
			1	74	20.00	19.07	19.66	19.80
			36	0	19.00	17.78	18.30	18.60
			36	18	19.00	17.92	18.31	18.67
			36	37	19.00	17.98	18.26	18.68
			75	0	19.00	17.98	18.27	18.54

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	21.00	19.59	20.04	20.37
			1	49	21.00	20.08	20.37	20.68
			1	99	21.00	20.00	20.23	20.65
			50	0	20.00	18.81	19.25	19.48
			50	24	20.00	18.96	19.24	19.61
			50	49	20.00	19.11	19.11	19.60
			100	0	20.00	19.01	19.21	19.51
		16QAM	1	0	20.00	18.80	19.39	19.62
			1	49	20.00	19.33	19.65	20.00
			1	99	20.00	19.21	19.55	19.94
			50	0	19.00	17.86	18.30	18.46
			50	24	19.00	17.99	18.29	18.60
			50	49	19.00	18.18	18.21	18.58
			100	0	19.00	17.98	18.21	18.57

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	1.4MHz	QPSK	1	0	21.00	20.81	20.19	19.03
			1	2	21.00	20.90	20.37	19.14

4			1	5	21.00	20.87	20.16	19.00
			3	0	21.00	20.92	20.30	19.08
			3	1	21.00	20.89	20.28	19.12
			3	2	21.00	20.83	20.27	19.07
			6	0	20.00	19.85	19.20	18.04
		16QAM	1	0	20.00	19.71	19.40	18.16
			1	2	20.00	19.78	19.43	18.23
			1	5	20.00	19.73	19.34	18.12
			3	0	20.00	19.99	19.47	18.23
			3	1	20.00	20.00	19.44	18.24
			3	2	20.00	19.98	19.41	18.22
			6	0	19.00	19.00	18.42	17.14
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	21.00	20.97	20.29	19.26
			1	7	21.00	21.00	20.65	19.48
			1	14	21.00	20.89	20.13	19.06
			8	0	20.00	19.87	19.28	18.23
			8	4	20.00	19.87	19.31	18.23
			8	7	20.00	19.89	19.22	18.09
			15	0	20.00	19.85	19.24	18.12
		16QAM	1	0	21.00	20.31	19.49	19.00
			1	7	21.00	20.65	19.77	19.00
			1	14	21.00	20.29	19.35	19.00
			8	0	19.00	18.93	18.31	17.18
			8	4	19.00	18.97	18.31	17.15
			8	7	19.00	18.94	18.20	17.05
			15	0	19.00	18.91	18.21	17.14
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	21.00	20.77	20.31	19.32
			1	12	21.00	21.00	20.64	19.56
			1	24	21.00	20.72	20.04	19.00
			12	0	20.00	19.84	19.33	18.25
			12	6	20.00	19.93	19.32	18.31
			12	11	20.00	19.88	19.15	18.13

			25	0	20.00	19.87	19.28	18.20
		16QAM	1	0	21.00	20.12	19.83	19.00
			1	12	21.00	20.57	20.16	19.00
			1	24	21.00	20.00	19.60	19.00
			12	0	19.00	18.81	18.33	17.13
			12	6	19.00	18.94	18.31	17.23
			12	11	19.00	18.95	18.15	17.07
			25	0	19.00	18.87	18.26	17.19
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	21.00	20.84	20.52	19.55
			1	24	21.00	20.96	20.41	19.47
			1	49	21.00	20.74	20.01	19.03
			25	0	20.00	19.78	19.52	18.39
			25	12	20.00	19.87	19.28	18.37
			25	24	20.00	19.91	19.12	18.25
			50	0	20.00	19.85	19.32	18.33
		16QAM	1	0	20.00	20.00	19.39	18.94
			1	24	20.00	20.00	19.27	18.84
			1	49	20.00	19.93	18.85	18.37
			25	0	19.00	18.79	18.51	17.42
			25	12	19.00	18.83	18.31	17.40
			25	24	19.00	18.91	18.12	17.27
			50	0	19.00	18.91	18.29	17.33
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	21.00	20.81	20.45	19.76
			1	37	21.00	21.00	20.53	19.80
			1	74	21.00	20.56	19.76	19.00
			36	0	20.00	19.84	19.58	18.65
			36	18	20.00	19.92	19.36	18.59
			36	37	20.00	19.83	19.13	18.44
			75	0	20.00	19.80	19.35	18.53
		16QAM	1	0	20.00	20.00	19.68	19.18
			1	37	20.00	20.00	19.69	19.13
			1	74	20.00	19.71	18.96	18.33

			36	0	19.00	18.88	18.49	17.65
			36	18	19.00	18.92	18.33	17.56
			36	37	19.00	18.85	18.06	17.39
			75	0	19.00	18.78	18.36	17.49
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	21.00	20.84	20.47	19.95
			1	49	21.00	20.90	20.39	19.73
			1	99	21.00	20.23	19.65	19.00
			50	0	20.00	19.67	19.62	18.73
			50	24	20.00	19.77	19.29	18.61
			50	49	20.00	19.49	19.03	18.48
			100	0	20.00	19.58	19.36	18.59
		16QAM	1	0	20.00	20.00	19.84	19.21
			1	49	20.00	20.00	19.73	18.95
			1	99	20.00	19.62	18.96	18.14
			50	0	19.00	18.74	18.70	17.75
			50	24	19.00	18.86	18.37	17.62
			50	49	19.00	18.54	18.03	17.45
			100	0	19.00	18.61	18.39	17.61

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	20.00	18.76	18.12	19.70
			1	2	20.00	18.87	18.32	19.75
			1	5	20.00	18.60	18.31	19.70
			3	0	20.00	18.82	18.26	19.70
			3	1	20.00	18.80	18.32	19.75
			3	2	20.00	18.82	18.35	19.70
			6	0	19.00	17.73	17.28	18.78
		16QAM	1	0	19.00	17.87	17.34	18.50
			1	2	19.00	17.99	17.49	18.67
			1	5	19.00	17.93	17.49	18.53
			3	0	19.00	17.94	17.42	18.84
			3	1	19.00	17.96	17.48	18.86
			3	2	19.00	17.93	17.55	18.86

			6	0	18.00	16.95	16.42	17.91
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	20.00	18.36	18.14	19.64
			1	7	20.00	18.29	18.65	19.96
			1	14	20.00	18.00	18.55	19.78
			8	0	19.00	17.28	17.20	18.63
			8	4	19.00	17.30	17.33	18.69
			8	7	19.00	17.26	17.43	18.72
			15	0	19.00	17.23	17.28	18.65
		16QAM	1	0	19.00	17.23	17.50	18.82
			1	7	19.00	17.53	17.92	19.00
			1	14	19.00	17.24	17.97	18.90
			8	0	18.00	16.25	16.21	17.64
			8	4	18.00	16.29	16.35	17.76
			8	7	18.00	16.32	16.39	17.75
			15	0	18.00	16.36	16.27	17.63
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	20.00	18.17	18.89	19.34
			1	12	20.00	18.72	18.49	19.99
			1	24	20.00	18.78	18.61	19.72
			12	0	19.00	17.44	17.09	18.42
			12	6	19.00	17.42	17.34	18.67
			12	11	19.00	17.42	17.43	18.79
			25	0	19.00	17.42	17.24	18.66
		16QAM	1	0	19.00	17.48	17.32	18.69
			1	12	19.00	17.84	18.11	18.20
			1	24	19.00	17.75	18.11	19.00
			12	0	18.00	16.47	16.00	17.41
			12	6	18.00	16.46	16.35	17.61
			12	11	18.00	16.46	16.41	17.69
			25	0	18.00	16.45	16.19	17.60
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB	RB		20450/829	20525/836.5	20600/844

			Size	Offset				
LTE Band 5	10MHz	QPSK	1	0	20.00	18.29	18.44	18.80
			1	24	20.00	18.92	18.47	19.49
			1	49	20.00	19.22	19.06	19.75
			25	0	19.00	17.61	17.00	18.30
			25	12	19.00	17.61	17.34	18.48
			25	24	19.00	18.26	17.53	18.88
			50	0	19.00	17.92	17.17	18.64
		16QAM	1	0	19.00	17.22	17.00	18.00
			1	24	19.00	17.63	17.84	18.70
			1	49	19.00	18.11	18.46	18.92
			25	0	18.00	16.60	16.00	17.30
			25	12	18.00	16.64	16.35	17.52
			25	24	18.00	17.27	16.55	17.90
			50	0	18.00	16.92	16.12	17.60

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	17.00	17.00	15.66	15.61
			1	12	17.00	17.00	15.96	16.06
			1	24	17.00	16.78	15.50	15.71
			12	0	16.00	15.99	14.65	14.80
			12	6	16.00	16.00	14.61	14.84
			12	11	16.00	15.96	14.57	14.77
			25	0	16.00	15.98	14.63	14.81
		16QAM	1	0	16.00	15.62	14.90	14.90
			1	12	16.00	15.88	15.21	15.44
			1	24	16.00	15.34	14.80	15.06
			12	0	15.00	14.94	13.61	13.78
			12	6	15.00	14.89	13.61	13.81
			12	11	15.00	15.00	13.49	13.69
			25	0	15.00	14.93	13.64	13.76
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band	10MHz	QPSK	1	0	17.00	16.62	15.95	15.62
			1	24	17.00	16.42	15.57	15.75

7			1	49	17.00	16.16	15.59	15.88
			25	0	16.00	15.32	14.75	15.00
			25	12	16.00	15.19	14.57	14.84
			25	24	16.00	15.36	14.61	14.75
			50	0	16.00	15.12	14.64	14.87
		16QAM	1	0	16.00	16.00	15.14	15.16
			1	24	16.00	15.71	15.09	15.05
			1	49	16.00	15.50	14.90	15.13
			25	0	15.00	14.95	13.77	13.97
			25	12	15.00	14.87	13.67	14.08
			25	24	15.00	14.94	13.62	13.79
			50	0	15.00	15.00	13.66	14.15
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	17.00	16.54	16.16	15.79
			1	37	17.00	16.55	16.29	16.01
			1	74	17.00	16.77	15.66	15.76
			36	0	16.00	16.00	14.81	14.97
			36	18	16.00	16.00	14.66	15.05
			36	37	16.00	16.00	14.57	14.95
			75	0	16.00	16.00	14.66	14.99
		16QAM	1	0	16.00	15.89	15.00	14.95
			1	37	16.00	15.90	15.16	15.32
			1	74	16.00	16.00	14.62	15.18
			36	0	16.00	15.22	14.84	14.00
			36	18	16.00	15.23	14.75	14.09
			36	37	16.00	15.14	14.60	14.00
			75	0	16.00	15.18	14.68	14.06
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	17.00	16.42	16.25	15.31
			1	49	17.00	16.20	16.21	15.93
			1	99	17.00	16.51	15.76	15.73
			50	0	16.00	15.98	15.41	14.84
			50	24	16.00	16.00	14.64	14.94
			50	49	16.00	15.89	14.70	14.78

			100	0	16.00	15.93	14.89	14.88
		16QAM	1	0	16.00	16.00	15.05	14.99
			1	49	16.00	15.50	15.06	15.53
			1	99	16.00	15.67	14.62	15.41
			50	0	15.00	14.99	13.98	13.88
			50	24	15.00	15.00	13.73	14.10
			50	49	15.00	14.89	13.67	13.84
			100	0	15.00	14.93	13.82	13.89

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.00	22.44	22.45	22.30
			1	2	23.00	22.61	22.60	22.51
			1	5	23.00	22.43	22.45	22.38
			3	0	23.00	22.53	22.54	22.44
			3	1	23.00	22.54	22.57	22.45
			3	2	23.00	22.53	22.54	22.45
			6	0	22.00	21.53	21.50	21.45
		16QAM	1	0	22.00	21.43	21.66	21.64
			1	2	22.00	21.54	21.89	21.72
			1	5	22.00	21.41	21.71	21.60
			3	0	22.00	21.66	21.78	21.74
			3	1	22.00	21.70	21.80	21.75
			3	2	22.00	21.75	21.76	21.73
			6	0	21.00	20.71	20.68	20.62
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.00	22.50	22.45	22.46
			1	7	23.00	22.79	22.71	22.57
			1	14	23.00	22.47	22.41	22.40
			8	0	22.00	21.48	21.50	21.49
			8	4	22.00	21.56	21.53	21.54
			8	7	22.00	21.57	21.52	21.48
			15	0	22.00	21.54	21.52	21.47
		16QAM	1	0	23.00	22.00	21.75	21.37
			1	7	23.00	22.55	22.12	21.67

			1	14	23.00	21.95	21.72	21.36
			8	0	21.00	20.57	20.55	20.52
			8	4	21.00	20.62	20.55	20.54
			8	7	21.00	20.60	20.52	20.50
			15	0	21.00	20.57	20.50	20.56
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.00	22.32	22.44	22.31
			1	12	23.00	22.87	22.87	22.60
			1	24	23.00	22.46	22.39	22.14
			12	0	22.00	21.42	21.56	21.14
			12	6	22.00	21.62	21.57	21.40
			12	11	22.00	21.56	21.55	21.18
			25	0	22.00	21.51	21.59	21.27
		16QAM	1	0	23.00	21.81	22.00	21.48
			1	12	23.00	22.22	22.38	21.85
			1	24	23.00	21.89	22.00	21.32
			12	0	21.00	20.45	20.53	20.28
			12	6	21.00	20.65	20.59	20.07
			12	11	21.00	20.61	20.51	20.01
			25	0	21.00	20.49	20.46	20.22
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.00	22.45	22.13	21.90
			1	24	23.00	22.69	22.19	22.08
			1	49	23.00	22.49	21.95	21.85
			25	0	22.00	21.49	21.19	21.00
			25	12	22.00	21.58	21.04	21.04
			25	24	22.00	21.52	21.19	21.00
			50	0	22.00	21.54	21.24	20.97
		16QAM	1	0	22.00	21.28	21.43	21.17
			1	24	22.00	21.52	21.63	21.30
			1	49	22.00	21.25	21.40	21.08
			25	0	21.00	20.34	20.23	20.02
			25	12	21.00	20.46	20.13	20.07
			25	24	21.00	20.33	20.26	20.03

			50	0	21.00	20.37	20.22	20.02

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	23.00	21.91	21.89	21.87
			1	12	23.00	22.28	22.37	22.25
			1	24	23.00	21.87	21.83	21.81
			12	0	22.00	21.13	20.95	20.93
			12	6	22.00	21.10	21.07	21.03
			12	11	22.00	21.03	21.07	20.95
			25	0	22.00	21.06	21.04	20.94
		16QAM	1	0	22.00	21.32	21.52	21.25
			1	12	22.00	21.70	21.93	21.74
			1	24	22.00	21.30	21.43	21.18
			12	0	21.00	20.13	19.94	19.90
			12	6	21.00	20.15	20.05	19.99
			12	11	21.00	20.03	20.02	19.87
			25	0	21.00	20.03	20.01	19.97
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	23.00	22.51	21.95	21.99
			1	24	23.00	22.42	22.04	22.06
			1	49	23.00	21.99	21.89	21.90
			25	0	22.00	21.26	21.06	20.99
			25	12	22.00	21.00	21.03	20.98
			25	24	22.00	21.16	21.07	21.01
			50	0	22.00	21.13	21.04	20.97
		16QAM	1	0	22.00	21.48	21.22	20.90
			1	24	22.00	21.58	21.30	21.02
			1	49	22.00	21.36	21.15	20.82
			25	0	21.00	20.13	20.05	19.98
			25	12	21.00	20.03	20.05	19.98
			25	24	21.00	20.20	20.09	20.00
			50	0	21.00	20.14	20.12	19.95

7.4. WLAN & Bluetooth Output Power

7.4.1. Output Power Results Of WLAN

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11b	1	2412	14.00	12.52
	6	2437	14.00	13.91
	11	2462	14.00	13.30
802.11g	1	2412	14.00	12.12
	6	2437	14.00	13.54
	11	2462	14.00	12.59
802.11n HT20	1	2412	14.00	12.05
	6	2437	14.00	13.40
	11	2462	14.00	12.48
802.11n HT40	3	2422	14.00	12.95
	6	2437	14.00	13.56
	9	2452	14.00	12.10

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	10.00	9.34
	40	5200	10.00	8.91
	48	5240	10.00	9.54
802.11n HT20	36	5180	9.00	7.00
	40	5200	9.00	7.63
	48	5240	9.00	8.26
802.11n HT40	38	5190	8.00	6.00
	46	5230	8.00	7.45
802.11ac VHT20	36	5180	9.00	8.20
	40	5200	9.00	7.70
	48	5240	9.00	8.26
802.11ac VHT40	38	5190	8.00	6.72
	46	5230	8.00	7.40
802.11ac VHT80	42	5210	7.00	6.04

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	52	5260	8.00	7.18
	56	5280	8.00	6.68
	64	5320	8.00	6.53

802.11n HT20	52	5260	7.00	6.93
	56	5280	7.00	6.57
	64	5320	7.00	6.27
802.11n HT40	54	5270	7.00	6.77
	62	5310	7.00	6.08
802.11ac VHT20	52	5260	7.00	6.96
	56	5280	7.00	6.41
	64	5320	7.00	6.40
802.11ac VHT40	54	5270	7.00	6.98
	62	5310	7.00	5.98
802.11ac VHT80	58	5290	7.00	6.68

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	100	5500	10.00	9.33
	120	5600	10.00	9.19
	140	5700	10.00	9.09
802.11n HT20	100	5500	10.00	8.74
	120	5600	10.00	9.15
	140	5700	10.00	8.99
802.11n HT40	102	5510	11.00	9.52
	118	5590	11.00	10.39
	134	5670	11.00	10.81
802.11ac VHT20	100	5500	10.00	8.72
	120	5600	10.00	8.93
	140	5700	10.00	9.07
802.11ac VHT40	102	5510	11.00	9.53
	118	5590	11.00	10.24
	134	5670	11.00	10.93
802.11ac VHT80	106	5530	10.00	8.85
	122	5610	10.00	9.27

NOTE: Power measurement results of WLAN 5.6G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	149	5745	9.00	8.02
	157	5785	9.00	8.96
	165	5825	9.00	8.40
802.11n HT20	149	5745	9.00	7.87
	157	5785	9.00	8.80
	165	5825	9.00	7.16

802.11n HT40	151	5755	10.00	8.88
	159	5795	10.00	9.25
802.11ac VHT20	149	5745	9.00	7.84
	157	5785	9.00	8.83
	165	5825	9.00	7.10
802.11ac VHT40	151	5755	10.00	8.87
	159	5795	10.00	9.24
802.11ac VHT80	155	5775	10.00	9.02

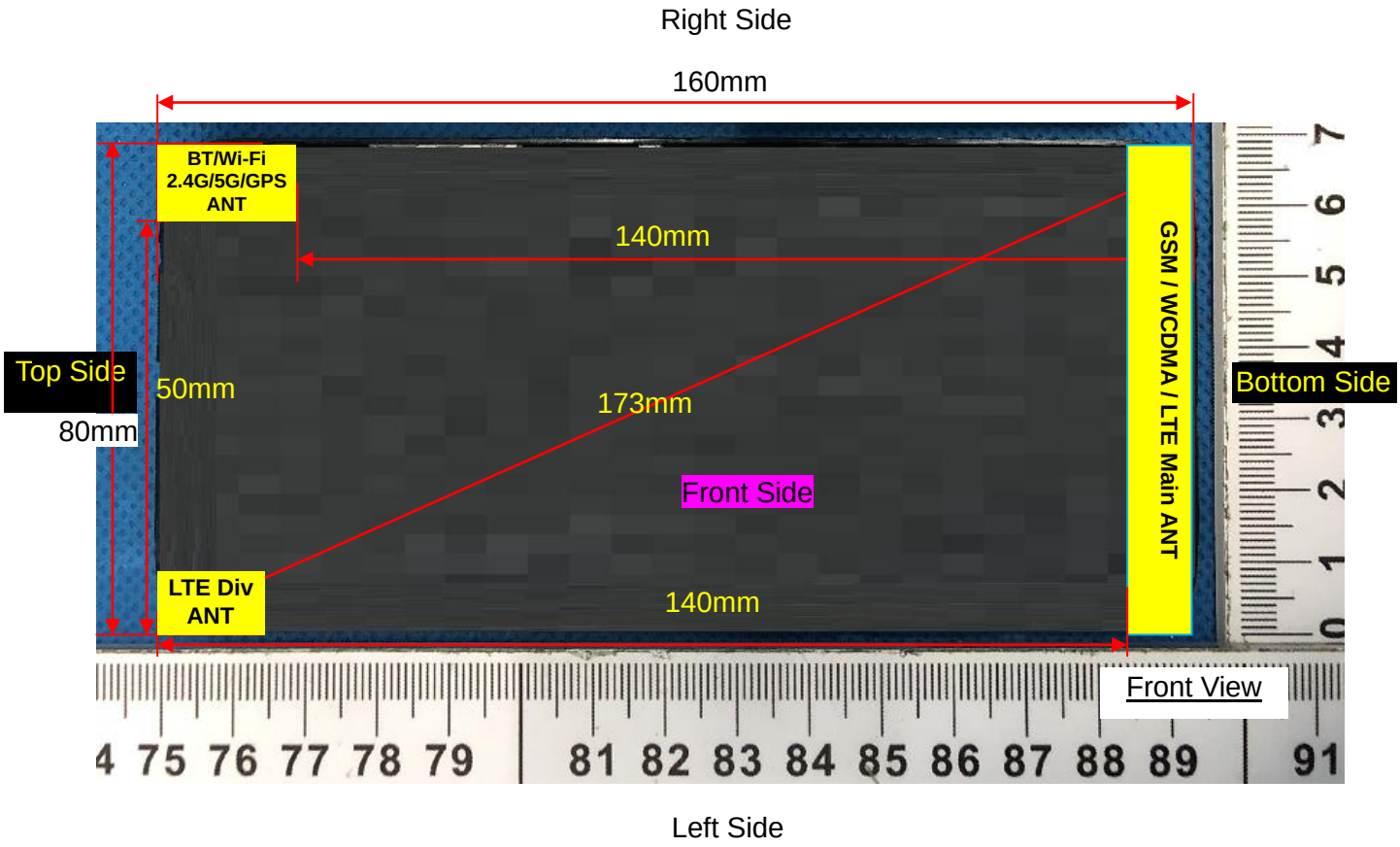
NOTE: Power measurement results of WLAN 5.8G.

7.4.2. Output Power Results Of Bluetooth

	Output Power (dBm)				
BR+EDR	Channel	Tune-up	Data Rates		
			1DH5	2DH5	3DH5
	0CH	7.000	6.526	5.824	5.835
	39CH	7.000	6.687	5.876	6.071
	78CH	6.000	5.083	4.254	4.231

BLE	Channel	Tune-up	Data Rates	
			1M	2M
			Output Power (dBm)	
	0CH	-2.800	-4.270	-4.660
	19CH	-2.800	-3.802	-4.079
	39CH	-2.800	-2.908	-2.964

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	Yes	Yes	NO	Yes
WLAN & Bluetooth	Yes	Yes	NO	Yes	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:

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

- $f_{(GHZ)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

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	7.00	5.01	5	2.480	1.58	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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [$\sqrt{f_{(GHZ)}}$/x] W/kg for test separation distances ≤ 50mm, 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	7.00	5.01	5	2.480	7.5	0.210
Bluetooth	Body	7.00	5.01	10	2.480	7.5	0.105
Bluetooth	Hotspot	7.00	5.01	10	2.480	7.5	0.105

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)	Date
			1g	10g					
Left Cheek	189/836.4	GPRS(GMSK 4TS)	0.522	0.395	2.98	22.00	23.00	0.657	2020/11/04

Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.287	0.213	-3.58	22.00	23.00	0.361	2020/11/04
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.448	0.340	-0.64	22.00	23.00	0.564	2020/11/04
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.212	0.158	-2.36	22.00	23.00	0.267	2020/11/04

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)	Date
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 4TS)	0.401	0.291	-4.90	22.00	23.00	0.505	2020/11/12
Back Side	189/836.4	GPRS(GMSK 4TS)	0.483	0.353	0.64	22.00	23.00	0.608	2020/11/12

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)	Date
			1g	10g					
Front Side	189/836.4	GPRS(GMSK 4TS)	0.401	0.291	-4.90	22.00	23.00	0.505	2020/11/12
Back Side	189/836.4	GPRS(GMSK 4TS)	0.483	0.353	0.64	22.00	23.00	0.608	2020/11/12
Left Side	189/836.4	GPRS(GMSK 4TS)	0.376	0.276	-3.21	22.00	23.00	0.473	2020/11/12
Right Side	189/836.4	GPRS(GMSK 4TS)	0.237	0.169	2.66	22.00	23.00	0.298	2020/11/12
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.168	0.118	3.88	22.00	23.00	0.211	2020/11/12

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)	Date
			1g	10g					
Left Cheek	661/1880	GPRS(GMSK 4TS)	0.176	0.107	3.66	23.85	24.00	0.182	2020/11/04
Left Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.096	0.058	1.29	23.85	24.00	0.099	2020/11/04
Right Cheek	661/1880	GPRS(GMSK 4TS)	0.152	0.092	-2.68	23.85	24.00	0.157	2020/11/04
Right Tilt 15 Degree	661/1880	GPRS(GMSK 4TS)	0.080	0.047	-1.72	23.85	24.00	0.083	2020/11/04

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)	Date
			1g	10g					
Front Side	661/1880	GPRS(GMSK 4TS)	0.242	0.136	3.65	23.85	24.00	0.251	2020/11/12
Back Side	661/1880	GPRS(GMSK 4TS)	0.301	0.175	-4.26	23.85	24.00	0.312	2020/11/12

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)	Date
			1g	10g					
Front Side	661/1880	GPRS(GMSK 4TS)	0.242	0.136	3.65	23.85	24.00	0.251	2020/11/12
Back Side	661/1880	GPRS(GMSK 4TS)	0.301	0.175	-4.26	23.85	24.00	0.312	2020/11/12
Left Side	661/1880	GPRS(GMSK 4TS)	0.220	0.127	0.84	23.85	24.00	0.228	2020/11/12
Right Side	661/1880	GPRS(GMSK 4TS)	0.150	0.087	2.14	23.85	24.00	0.155	2020/11/12
Bottom Side	661/1880	GPRS(GMSK 4TS)	0.119	0.070	-2.22	23.85	24.00	0.123	2020/11/12

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)	Date
			1g	10g					
Left Cheek	9400/1880	RMC12.2K	0.254	0.155	4.13	21.20	22.00	0.305	2020/11/04
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.150	0.091	0.87	21.20	22.00	0.180	2020/11/04
Right Cheek	9400/1880	RMC12.2K	0.239	0.147	-3.96	21.20	22.00	0.287	2020/11/04
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.109	0.070	-3.71	21.20	22.00	0.131	2020/11/04

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)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.296	0.176	-3.03	21.20	22.00	0.356	2020/11/12

Back Side	9400/1880	RMC12.2K	0.363	0.214	-0.64	21.20	22.00	0.436	2020/11/12

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)	Date
			1g	10g					
Front Side	9400/1880	RMC12.2K	0.296	0.176	-3.03	21.20	22.00	0.356	2020/11/12
Back Side	9400/1880	RMC12.2K	0.363	0.214	-0.64	21.20	22.00	0.436	2020/11/12
Left Side	9400/1880	RMC12.2K	0.276	0.159	1.92	21.20	22.00	0.332	2020/11/12
Right Side	9400/1880	RMC12.2K	0.176	0.105	-0.95	21.20	22.00	0.212	2020/11/12
Bottom Side	9400/1880	RMC12.2K	0.145	0.087	2.94	21.20	22.00	0.174	2020/11/12

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)	Date
			1g	10g					
Left Cheek	1413/1732.6	RMC12.2K	0.259	0.162	-1.39	21.05	22.00	0.322	2020/11/07
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.140	0.091	-1.95	21.05	22.00	0.174	2020/11/07
Right Cheek	1413/1732.6	RMC12.2K	0.236	0.149	-0.44	21.05	22.00	0.294	2020/11/07
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.116	0.072	4.39	21.05	22.00	0.144	2020/11/07

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)	Date
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.378	0.233	2.30	21.05	22.00	0.470	2020/11/09
Back Side	1413/1732.6	RMC12.2K	0.472	0.287	-0.20	21.05	22.00	0.587	2020/11/09

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

Test	Test channel	Test Mode	SAR Value	Power	Conducted	Tune-up	Scaled	Date

Position of Hotspot with 10mm	/Freq.		(W/kg)		Drift (±5%)	power (dBm)	power (dBm)	SAR 1g (W/Kg)	
			1g	10g					
Front Side	1413/1732.6	RMC12.2K	0.378	0.233	2.30	21.05	22.00	0.470	2020/11/09
Back Side	1413/1732.6	RMC12.2K	0.472	0.287	-0.20	21.05	22.00	0.587	2020/11/09
Left Side	1413/1732.6	RMC12.2K	0.369	0.229	2.65	21.05	22.00	0.459	2020/11/09
Right Side	1413/1732.6	RMC12.2K	0.215	0.129	-2.43	21.05	22.00	0.268	2020/11/09
Bottom Side	1413/1732.6	RMC12.2K	0.180	0.109	-0.59	21.05	22.00	0.224	2020/11/09

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)	Date
			1g	10g					
Left Cheek	4182/836.4	RMC12.2K	0.343	0.261	3.77	18.29	19.00	0.404	2020/11/04
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.183	0.142	-3.36	18.29	19.00	0.216	2020/11/04
Right Cheek	4182/836.4	RMC12.2K	0.304	0.234	3.62	18.29	19.00	0.358	2020/11/04
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.162	0.121	0.95	18.29	19.00	0.191	2020/11/04

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)	Date
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.228	0.179	-1.51	18.29	19.00	0.268	2020/11/12
Back Side	4182/836.4	RMC12.2K	0.303	0.233	0.19	18.29	19.00	0.357	2020/11/12

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)	Date
			1g	10g					
Front Side	4182/836.4	RMC12.2K	0.228	0.179	-1.51	18.29	19.00	0.268	2020/11/12
Back Side	4182/836.4	RMC12.2K	0.303	0.233	0.19	18.29	19.00	0.357	2020/11/12
Left Side	4182/836.4	RMC12.2K	0.241	0.186	-2.70	18.29	19.00	0.284	2020/11/12

Right Side	4182/836.4	RMC12.2K	0.144	0.110	-1.69	18.29	19.00	0.170	2020/11/12
Bottom Side	4182/836.4	RMC12.2K	0.111	0.085	4.24	18.29	19.00	0.131	2020/11/12

NOTE: Hotspot SAR test results of WCDMA Band 5

10.1.6. 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)	Date
			1g	10g					
1RB									
Left Cheek	18900/1880	20M QPSK(1,49)	0.184	0.114	0.88	20.37	21.00	0.213	2020/11/04
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.096	0.059	-4.62	20.37	21.00	0.111	2020/11/04
Right Cheek	18900/1880	20M QPSK(1,49)	0.164	0.105	-4.46	20.37	21.00	0.190	2020/11/04
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.077	0.044	-0.52	20.37	21.00	0.089	2020/11/04
50%RB									
Left Cheek	18900/1880	1.4M QPSK(3,2)	0.160	0.105	4.83	20.21	21.00	0.192	2020/11/04
Left Tilt 15 Degree	18900/1880	1.4M QPSK(3,2)	0.082	0.054	-2.39	20.21	21.00	0.098	2020/11/04
Right Cheek	18900/1880	1.4M QPSK(3,2)	0.152	0.093	3.12	20.21	21.00	0.182	2020/11/04
Right Tilt 15 Degree	18900/1880	1.4M QPSK(3,2)	0.073	0.040	4.38	20.21	21.00	0.088	2020/11/04

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)	Date
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.351	0.201	3.33	20.37	21.00	0.406	2020/11/12

Back Side	18900/1880	20M QPSK(1,49)	0.431	0.247	-3.76	20.37	21.00	0.498	2020/11/12
50%RB									
Front Side	18900/1880	1.4M QPSK(3,2)	0.331	0.172	4.22	20.21	21.00	0.397	2020/11/12
Back Side	18900/1880	1.4M QPSK(3,2)	0.374	0.212	4.97	20.21	21.00	0.449	2020/11/12

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)	Date
			1g	10g					
1RB									
Front Side	18900/1880	20M QPSK(1,49)	0.351	0.201	3.33	20.37	21.00	0.406	2020/11/12
Back Side	18900/1880	20M QPSK(1,49)	0.431	0.247	-3.76	20.37	21.00	0.498	2020/11/12
Left Side	18900/1880	20M QPSK(1,49)	0.309	0.182	0.33	20.37	21.00	0.357	2020/11/12
Right Side	18900/1880	20M QPSK(1,49)	0.207	0.119	1.39	20.37	21.00	0.239	2020/11/12
Bottom Side	18900/1880	20M QPSK(1,49)	0.147	0.081	4.86	20.37	21.00	0.170	2020/11/12
50%RB									
Front Side	18900/1880	1.4M QPSK(3,2)	0.331	0.172	4.22	20.21	21.00	0.397	2020/11/12
Back Side	18900/1880	1.4M QPSK(3,2)	0.374	0.212	4.97	20.21	21.00	0.449	2020/11/12
Left Side	18900/1880	1.4M QPSK(3,2)	0.284	0.166	2.80	20.21	21.00	0.341	2020/11/12
Right Side	18900/1880	1.4M QPSK(3,2)	0.189	0.110	-4.00	20.21	21.00	0.227	1900/1/0
Bottom Side	18900/1880	1.4M QPSK(3,2)	0.136	0.071	0.87	20.21	21.00	0.163	2020/11/12

NOTE: Hotspot SAR test results of LTE Band 2

10.1.7. 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)	Date
			1g	10g					

1RB									
Left Cheek	20175/1732.5	20M QPSK(1,49)	0.222	0.138	-4.49	20.39	21.00	0.255	2020/11/07
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.117	0.075	4.02	20.39	21.00	0.135	2020/11/07
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.189	0.119	-4.90	20.39	21.00	0.218	2020/11/07
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.100	0.065	0.59	20.39	21.00	0.115	2020/11/07
50%RB									
Left Cheek	20175/1732.5	1.4M QPSK(3,0)	0.203	0.123	4.86	20.30	21.00	0.239	2020/11/07
Left Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,0)	0.102	0.071	4.06	20.30	21.00	0.120	2020/11/07
Right Cheek	20175/1732.5	1.4M QPSK(3,0)	0.178	0.109	-4.21	20.30	21.00	0.209	2020/11/07
Right Tilt 15 Degree	20175/1732.5	1.4M QPSK(3,0)	0.094	0.057	-3.42	20.30	21.00	0.110	2020/11/07

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)	Date
			1g	10g					
1RB									
Front Side	20175/1732.5	20M QPSK(1,49)	0.490	0.292	-2.38	20.39	21.00	0.564	2020/11/09
Back Side	20175/1732.5	20M QPSK(1,49)	0.587	0.352	-0.68	20.39	21.00	0.676	2020/11/09
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,0)	0.458	0.273	-2.27	20.30	21.00	0.538	2020/11/09
Back Side	20175/1732.5	1.4M QPSK(3,0)	0.551	0.322	2.94	20.30	21.00	0.647	2020/11/09

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

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

with 10mm									
1RB									
Front Side	20175/1732.5	20M QPSK(1,49)	0.490	0.292	-2.38	20.39	21.00	0.564	2020/11/09
Back Side	20175/1732.5	20M QPSK(1,49)	0.587	0.352	-0.68	20.39	21.00	0.676	2020/11/09
Left Side	20175/1732.5	20M QPSK(1,49)	0.420	0.255	2.62	20.39	21.00	0.483	2020/11/09
Right Side	20175/1732.5	20M QPSK(1,49)	0.291	0.177	-3.20	20.39	21.00	0.335	2020/11/09
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.228	0.133	1.82	20.39	21.00	0.262	2020/11/09
50%RB									
Front Side	20175/1732.5	1.4M QPSK(3,0)	0.458	0.273	-2.27	20.30	21.00	0.538	2020/11/09
Back Side	20175/1732.5	1.4M QPSK(3,0)	0.551	0.322	2.94	20.30	21.00	0.647	2020/11/09
Left Side	20175/1732.5	1.4M QPSK(3,0)	0.364	0.238	3.73	20.30	21.00	0.428	2020/11/09
Right Side	20175/1732.5	1.4M QPSK(3,0)	0.248	0.159	0.44	20.30	21.00	0.291	2020/11/09
Bottom Side	20175/1732.5	1.4M QPSK(3,0)	0.217	0.115	0.62	20.30	21.00	0.255	2020/11/09

NOTE: Hotspot SAR test results of LTE Band 4

10.1.8. 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)	Date
			1g	10g					
1RB									
Left Cheek	20525/836.5	10M QPSK(1,49)	0.415	0.316	3.18	19.06	20.00	0.515	2020/11/04
Left Tilt 15 Degree	20525/836.5	10M QPSK(1,49)	0.212	0.165	-4.60	19.06	20.00	0.263	2020/11/04
Right Cheek	20525/836.5	10M QPSK(1,49)	0.386	0.291	-1.88	19.06	20.00	0.479	2020/11/04
Right	20525/836.5	10M QPSK(1,49)	0.195	0.144	4.87	19.06	20.00	0.242	2020/11/04

Tilt 15 Degree									
50%RB									
Left Cheek	20525/836.5	1.4M QPSK(3,1)	0.394	0.293	3.07	18.32	20.00	0.580	2020/11/04
Left Tilt 15 Degree	20525/836.5	1.4M QPSK(3,1)	0.200	0.145	-0.22	18.32	20.00	0.294	2020/11/04
Right Cheek	20525/836.5	1.4M QPSK(3,1)	0.362	0.266	1.98	18.32	20.00	0.533	2020/11/04
Right Tilt 15 Degree	20525/836.5	1.4M QPSK(3,1)	0.172	0.135	4.52	18.32	20.00	0.253	2020/11/04

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)	Date
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,49)	0.270	0.204	-0.89	19.06	20.00	0.335	2020/11/12
Back Side	20525/836.5	10M QPSK(1,49)	0.359	0.273	-0.47	19.06	20.00	0.446	2020/11/12
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,1)	0.250	0.182	4.01	18.32	20.00	0.368	2020/11/12
Back Side	20525/836.5	1.4M QPSK(3,1)	0.328	0.243	-3.95	18.32	20.00	0.483	2020/11/12

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)	Date
			1g	10g					
1RB									
Front Side	20525/836.5	10M QPSK(1,49)	0.270	0.204	-0.89	19.06	20.00	0.335	2020/11/12
Back Side	20525/836.5	10M QPSK(1,49)	0.359	0.273	-0.47	19.06	20.00	0.446	2020/11/12
Left Side	20525/836.5	10M QPSK(1,49)	0.266	0.200	3.85	19.06	20.00	0.330	2020/11/12

Right Side	20525/836.5	10M QPSK(1,49)	0.169	0.129	2.13	19.06	20.00	0.210	2020/11/12
Bottom Side	20525/836.5	10M QPSK(1,49)	0.132	0.101	-3.32	19.06	20.00	0.164	2020/11/12
50%RB									
Front Side	20525/836.5	1.4M QPSK(3,1)	0.250	0.182	4.01	18.32	20.00	0.368	2020/11/12
Back Side	20525/836.5	1.4M QPSK(3,1)	0.328	0.243	-3.95	18.32	20.00	0.483	2020/11/12
Left Side	20525/836.5	1.4M QPSK(3,1)	0.241	0.186	2.37	18.32	20.00	0.355	2020/11/12
Right Side	20525/836.5	1.4M QPSK(3,1)	0.149	0.121	4.03	18.32	20.00	0.219	2020/11/12
Bottom Side	20525/836.5	1.4M QPSK(3,1)	0.123	0.090	1.16	18.32	20.00	0.181	2020/11/12

NOTE: Hotspot SAR test results of LTE Band 5

10.1.9. 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)	Date
			1g	10g					
1RB									
Left Cheek	21100/2535	20M QPSK(1,99)	0.291	0.157	-1.72	15.76	17.00	0.387	2020/11/08
Left Tilt 15 Degree	21100/2535	20M QPSK(1,99)	0.169	0.093	3.75	15.76	17.00	0.225	2020/11/08
Right Cheek	21100/2535	20M QPSK(1,99)	0.266	0.140	3.91	15.76	17.00	0.354	2020/11/08
Right Tilt 15 Degree	21100/2535	20M QPSK(1,99)	0.128	0.068	-3.47	15.76	17.00	0.170	2020/11/08
50%RB									
Left Cheek	21100/2535	20M QPSK(50,24)	0.272	0.144	1.71	14.64	16.00	0.372	2020/11/08
Left Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.146	0.087	1.44	14.64	16.00	0.200	2020/11/08
Right	21100/2535	20M QPSK(50,24)	0.230	0.121	-0.09	14.64	16.00	0.315	2020/11/08

Cheek									
Right Tilt 15 Degree	21100/2535	20M QPSK(50,24)	0.117	0.064	4.27	14.64	16.00	0.160	2020/11/08

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)	Date
			1g	10g					
1RB									
Front Side	21100/2535	20M QPSK(1,99)	0.456	0.224	2.93	15.76	17.00	0.607	2020/11/09
Back Side	21100/2535	20M QPSK(1,99)	0.574	0.278	-4.48	15.76	17.00	0.764	2020/11/09
50%RB									
Front Side	21100/2535	20M QPSK(50,24)	0.416	0.196	-1.03	14.64	16.00	0.569	2020/11/09
Back Side	21100/2535	20M QPSK(50,24)	0.527	0.240	2.12	14.64	16.00	0.721	2020/11/09

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%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Front Side	21100/2535	20M QPSK(1,99)	0.456	0.224	2.93	15.76	17.00	0.607	2020/11/09
Back Side	21100/2535	20M QPSK(1,99)	0.574	0.278	-4.48	15.76	17.00	0.764	2020/11/09
Left Side	21100/2535	20M QPSK(1,99)	0.454	0.224	0.72	15.76	17.00	0.604	2020/11/09
Right Side	21100/2535	20M QPSK(1,99)	0.272	0.134	0.75	15.76	17.00	0.362	2020/11/09
Bottom Side	21100/2535	20M QPSK(1,99)	0.218	0.107	3.61	15.76	17.00	0.290	2020/11/09
50%RB									
Front Side	21100/2535	20M QPSK(50,24)	0.416	0.196	-1.03	14.64	16.00	0.569	2020/11/09
Back Side	21100/2535	20M QPSK(50,24)	0.527	0.240	2.12	14.64	16.00	0.721	2020/11/09
Left Side	21100/2535	20M QPSK(50,24)	0.393	0.193	-0.32	14.64	16.00	0.538	2020/11/09
Right Side	21100/2535	20M QPSK(50,24)	0.246	0.125	-0.74	14.64	16.00	0.336	2020/11/09
Bottom Side	21100/2535	20M QPSK(50,24)	0.195	0.096	1.00	14.64	16.00	0.267	2020/11/09

NOTE: Hotspot SAR test results of LTE Band 7

10.1.10. SAR measurement Result of LTE Band 12

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)	Date
			1g	10g					
1RB									
Left Cheek	23095/707.5	10M QPSK(1,24)	0.306	0.246	-1.93	22.19	23.00	0.369	2020/11/07
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.159	0.132	4.27	22.19	23.00	0.192	2020/11/07
Right Cheek	23095/707.5	10M QPSK(1,24)	0.278	0.221	-4.55	22.19	23.00	0.335	2020/11/07
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.127	0.101	-1.69	22.19	23.00	0.153	2020/11/07
50%RB									
Left Cheek	23095/707.5	1.4M QPSK(3,1)	0.278	0.224	1.31	22.57	23.00	0.307	2020/11/07
Left Tilt 15 Degree	23095/707.5	1.4M QPSK(3,1)	0.148	0.125	-0.38	22.57	23.00	0.163	2020/11/07
Right Cheek	23095/707.5	1.4M QPSK(3,1)	0.237	0.191	-4.41	22.57	23.00	0.262	2020/11/07
Right Tilt 15 Degree	23095/707.5	1.4M QPSK(3,1)	0.114	0.092	3.08	22.57	23.00	0.126	2020/11/07

NOTE: Head SAR test results of LTE Band 12

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)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,24)	0.426	0.332	2.96	22.19	23.00	0.513	2020/11/08
Back Side	23095/707.5	10M QPSK(1,24)	0.521	0.409	0.64	22.19	23.00	0.628	2020/11/08
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,1)	0.391	0.298	-3.63	22.57	23.00	0.432	2020/11/08
Back Side	23095/707.5	1.4M QPSK(3,1)	0.471	0.377	-2.78	22.57	23.00	0.520	2020/11/08

NOTE: Body-Worn SAR test results of LTE Band 12

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)	Date
			1g	10g					
1RB									
Front Side	23095/707.5	10M QPSK(1,24)	0.426	0.332	2.96	22.19	23.00	0.513	2020/11/08
Back Side	23095/707.5	10M QPSK(1,24)	0.521	0.409	0.64	22.19	23.00	0.628	2020/11/08
Left Side	23095/707.5	10M QPSK(1,24)	0.398	0.314	-1.31	22.19	23.00	0.480	2020/11/08
Right Side	23095/707.5	10M QPSK(1,24)	0.229	0.183	0.58	22.19	23.00	0.276	2020/11/08
Bottom Side	23095/707.5	10M QPSK(1,24)	0.187	0.150	4.43	22.19	23.00	0.225	2020/11/08
50%RB									
Front Side	23095/707.5	1.4M QPSK(3,1)	0.391	0.298	-3.63	22.57	23.00	0.432	2020/11/08
Back Side	23095/707.5	1.4M QPSK(3,1)	0.471	0.377	-2.78	22.57	23.00	0.520	2020/11/08
Left Side	23095/707.5	1.4M QPSK(3,1)	0.354	0.281	-3.50	22.57	23.00	0.391	2020/11/08
Right Side	23095/707.5	1.4M QPSK(3,1)	0.199	0.171	-2.91	22.57	23.00	0.220	2020/11/08
Bottom Side	23095/707.5	1.4M QPSK(3,1)	0.171	0.140	2.90	22.57	23.00	0.189	2020/11/08

NOTE: Hotspot SAR test results of LTE Band 12

10.1.11. 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)	Date
			1g	10g					
1RB									
Left Cheek	23790/710	10M QPSK(1,0)	0.331	0.269	-2.17	21.95	23.00	0.422	2020/11/07

Left Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.184	0.146	1.14	21.95	23.00	0.234	2020/11/07
Right Cheek	23790/710	10M QPSK(1,0)	0.284	0.234	-2.55	21.95	23.00	0.362	2020/11/07
Right Tilt 15 Degree	23790/710	10M QPSK(1,0)	0.136	0.107	-2.50	21.95	23.00	0.173	2020/11/07
50%RB									
Left Cheek	23790/710	10M QPSK(25,0)	0.311	0.230	-1.84	21.06	22.00	0.386	2020/11/07
Left Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.172	0.138	0.46	21.06	22.00	0.214	2020/11/07
Right Cheek	23790/710	10M QPSK(25,0)	0.269	0.210	1.11	21.06	22.00	0.334	2020/11/07
Right Tilt 15 Degree	23790/710	10M QPSK(25,0)	0.118	0.098	1.56	21.06	22.00	0.147	2020/11/07

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)	Date
			1g	10g					
1RB									
Front Side	23790/710	10M QPSK(1,0)	0.436	0.347	-1.02	21.95	23.00	0.555	2020/11/08
Back Side	23790/710	10M QPSK(1,0)	0.546	0.429	0.01	21.95	23.00	0.695	2020/11/08
50%RB									
Front Side	23790/710	10M QPSK(25,0)	0.382	0.307	1.51	21.06	22.00	0.474	2020/11/08
Back Side	23790/710	10M QPSK(25,0)	0.471	0.399	-4.04	21.06	22.00	0.585	2020/11/08

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)	Date
			1g	10g					
1RB									

Front Side	23790/710	10M QPSK(1,0)	0.436	0.347	-1.02	21.95	23.00	0.555	2020/11/08
Back Side	23790/710	10M QPSK(1,0)	0.546	0.429	0.01	21.95	23.00	0.695	2020/11/08
Left Side	23790/710	10M QPSK(1,0)	0.412	0.327	-4.98	21.95	23.00	0.525	2020/11/08
Right Side	23790/710	10M QPSK(1,0)	0.254	0.201	4.67	21.95	23.00	0.323	2020/11/08
Bottom Side	23790/710	10M QPSK(1,0)	0.202	0.154	4.44	21.95	23.00	0.257	2020/11/08
50%RB									
Front Side	23790/710	10M QPSK(25,0)	0.382	0.307	1.51	21.06	22.00	0.474	2020/11/08
Back Side	23790/710	10M QPSK(25,0)	0.471	0.399	-4.04	21.06	22.00	0.585	2020/11/08
Left Side	23790/710	10M QPSK(25,0)	0.367	0.299	2.92	21.06	22.00	0.456	2020/11/08
Right Side	23790/710	10M QPSK(25,0)	0.234	0.175	4.70	21.06	22.00	0.291	2020/11/08
Bottom Side	23790/710	10M QPSK(25,0)	0.182	0.134	-2.34	21.06	22.00	0.226	2020/11/08

NOTE: Hotspot SAR test results of LTE Band 17

10.1.12. 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)	Date
			1g	10g					
Left Cheek	6/2437	802.11b	0.267	0.144	-1.20	13.91	14.00	0.273	2020/11/14
Left Tilt 15 Degree	6/2437	802.11b	0.149	0.084	-4.66	13.91	14.00	0.152	2020/11/14
Right Cheek	6/2437	802.11b	0.229	0.120	0.42	13.91	14.00	0.234	2020/11/14
Right Tilt 15 Degree	6/2437	802.11b	0.122	0.063	-3.99	13.91	14.00	0.125	2020/11/14

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)	Date
			1g	10g					

Front Side	6/2437	802.11b	0.043	0.030	-3.23	13.91	14.00	0.044	2020/11/15
Back Side	6/2437	802.11b	0.070	0.047	0.87	13.91	14.00	0.071	2020/11/15

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)	Date
			1g	10g					
Front Side	6/2437	802.11b	0.043	0.030	-3.23	13.91	14.00	0.044	2020/11/15
Back Side	6/2437	802.11b	0.070	0.047	0.87	13.91	14.00	0.071	2020/11/15
Right Side	6/2437	802.11b	0.017	0.012	-1.53	13.91	14.00	0.017	2020/11/15
Top Side	6/2437	802.11b	0.024	0.015	-4.73	13.91	14.00	0.025	2020/11/15

NOTE: Hotspot SAR test results of WLAN 2.4G

10.1.13. 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)	Date
			1g	10g					
Left Cheek	40/5200	802.11a	0.382	0.162	-2.04	8.91	10.00	0.491	2020/11/10
Left Tilt 15 Degree	40/5200	802.11a	0.218	0.096	2.20	8.91	10.00	0.280	2020/11/10
Right Cheek	40/5200	802.11a	0.334	0.137	2.86	8.91	10.00	0.429	2020/11/10
Right Tilt 15 Degree	40/5200	802.11a	0.166	0.067	0.74	8.91	10.00	0.213	2020/11/10

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)	Date
			1g	10g					
Front Side	40/5200	802.11a	0.226	0.103	-2.86	8.91	10.00	0.290	2020/11/13
Back Side	40/5200	802.11a	0.369	0.169	-0.03	8.91	10.00	0.474	2020/11/13

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

10.1.14. SAR measurement Result of WLAN 5.3G

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)	Date
			1g	10g					
Left Cheek	56/5280	802.11a	0.115	0.071	-2.34	6.68	8.00	0.156	2020/11/10

Left Tilt 15 Degree	56/5280	802.11a	0.067	0.040	-4.54	6.68	8.00	0.091	2020/11/10
Right Cheek	56/5280	802.11a	0.105	0.067	2.08	6.68	8.00	0.142	2020/11/10
Right Tilt 15 Degree	56/5280	802.11a	0.053	0.037	-4.09	6.68	8.00	0.072	2020/11/10

NOTE: Head SAR test results of WLAN 5.3G

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)	Date
			1g	10g					
Front Side	56/5280	802.11a	0.102	0.058	-1.47	6.68	8.00	0.138	2020/11/6
Back Side	56/5280	802.11a	0.158	0.093	3.06	6.68	8.00	0.214	2020/11/6

NOTE: Body-Worn SAR test results of WLAN 5.3G

10.1.15. SAR measurement Result of WLAN 5.6G

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)	Date
			1g	10g					
Left Cheek	118/5590	802.11n(HT40)	0.336	0.152	-1.64	10.39	11.00	0.387	2020/11/11
Left Tilt 15 Degree	118/5590	802.11n(HT40)	0.188	0.081	1.30	10.39	11.00	0.216	2020/11/11
Right Cheek	118/5590	802.11n(HT40)	0.297	0.133	3.87	10.39	11.00	0.342	2020/11/11
Right Tilt 15 Degree	118/5590	802.11n(HT40)	0.161	0.069	4.50	10.39	11.00	0.185	2020/11/11

NOTE: Head SAR test results of WLAN 5.6G

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)	Date
			1g	10g					
Front Side	118/5590	802.11n(HT40)	0.316	0.133	-4.69	10.39	11.00	0.364	2020/11/6
Back Side	118/5590	802.11n(HT40)	0.444	0.208	-2.10	10.39	11.00	0.511	2020/11/6

NOTE: Body-Worn SAR test results of WLAN 5.6G

10.1.16. SAR measurement Result of WLAN 5.8G

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)	Date
			1g	10g					
Left Cheek	159/5795	802.11n(HT40)	0.410	0.175	-1.15	9.25	10.00	0.487	2020/11/11
Left Tilt 15 Degree	159/5795	802.11n(HT40)	0.233	0.097	-2.42	9.25	10.00	0.277	2020/11/11
Right Cheek	159/5795	802.11n(HT40)	0.387	0.169	4.57	9.25	10.00	0.460	2020/11/11
Right Tilt 15 Degree	159/5795	802.11n(HT40)	0.208	0.086	-0.82	9.25	10.00	0.247	2020/11/11

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)	Date
			1g	10g					
Front Side	159/5795	802.11n(HT40)	0.192	0.093	0.37	9.25	10.00	0.228	2020/11/13
Back Side	159/5795	802.11n(HT40)	0.304	0.150	-2.81	9.25	10.00	0.361	2020/11/13

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

10.2. SAR Summation Scenario

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

1) Scalar SAR summation < 1.6W/kg.

2) SPLSR = $(SAR_1 + SAR_2)^{1.5}$ / (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 ≤ 0.04, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 2.4G			
Head	Left Cheek	0.657	0.273	0.930	N/A	N/A
	Left Tilt 15 Degree	0.361	0.152	0.513	N/A	N/A
	Right Cheek	0.564	0.234	0.798	N/A	N/A
	Right Tilt 15 Degree	0.267	0.125	0.392	N/A	N/A
Body-Worn	Front Side	0.505	0.044	0.549	N/A	N/A

	Back Side	0.608	0.071	0.679	N/A	N/A
Hotspot	Front Side	0.505	0.044	0.549	N/A	N/A
	Back Side	0.608	0.071	0.679	N/A	N/A
	Left Side	0.473	N/A	0.473	N/A	N/A
	Right Side	0.298	0.017	0.315	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.211	N/A	0.211	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 2.4G			
Head	Left Cheek	0.182	0.273	0.455	N/A	N/A
	Left Tilt 15 Degree	0.099	0.152	0.251	N/A	N/A
	Right Cheek	0.157	0.234	0.391	N/A	N/A
	Right Tilt 15 Degree	0.083	0.125	0.208	N/A	N/A
Body-Worn	Front Side	0.251	0.044	0.295	N/A	N/A
	Back Side	0.312	0.071	0.383	N/A	N/A
Hotspot	Front Side	0.251	0.044	0.295	N/A	N/A
	Back Side	0.312	0.071	0.383	N/A	N/A
	Left Side	0.228	N/A	0.228	N/A	N/A
	Right Side	0.155	0.017	0.172	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.123	N/A	0.123	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 2.4G			
Head	Left Cheek	0.305	0.273	0.578	N/A	N/A
	Left Tilt 15 Degree	0.180	0.152	0.332	N/A	N/A
	Right Cheek	0.287	0.234	0.521	N/A	N/A
	Right Tilt 15 Degree	0.131	0.125	0.256	N/A	N/A
Body-Worn	Front Side	0.356	0.044	0.400	N/A	N/A
	Back Side	0.436	0.071	0.507	N/A	N/A
Hotspot	Front Side	0.356	0.044	0.400	N/A	N/A
	Back Side	0.436	0.071	0.507	N/A	N/A
	Left Side	0.332	N/A	0.332	N/A	N/A
	Right Side	0.212	0.017	0.229	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A

	Bottom Side	0.174	N/A	0.174	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 2.4G			
Head	Left Cheek	0.322	0.273	0.595	N/A	N/A
	Left Tilt 15 Degree	0.174	0.152	0.326	N/A	N/A
	Right Cheek	0.294	0.234	0.528	N/A	N/A
	Right Tilt 15 Degree	0.144	0.125	0.269	N/A	N/A
Body-Worn	Front Side	0.470	0.044	0.514	N/A	N/A
	Back Side	0.587	0.071	0.658	N/A	N/A
Hotspot	Front Side	0.470	0.044	0.514	N/A	N/A
	Back Side	0.587	0.071	0.658	N/A	N/A
	Left Side	0.459	N/A	0.459	N/A	N/A
	Right Side	0.268	0.017	0.285	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.224	N/A	0.224	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 2.4G			
Head	Left Cheek	0.404	0.273	0.677	N/A	N/A
	Left Tilt 15 Degree	0.216	0.152	0.368	N/A	N/A
	Right Cheek	0.358	0.234	0.592	N/A	N/A
	Right Tilt 15 Degree	0.191	0.125	0.316	N/A	N/A
Body-Worn	Front Side	0.268	0.044	0.312	N/A	N/A
	Back Side	0.357	0.071	0.428	N/A	N/A
Hotspot	Front Side	0.268	0.044	0.312	N/A	N/A
	Back Side	0.357	0.071	0.428	N/A	N/A
	Left Side	0.284	N/A	0.284	N/A	N/A
	Right Side	0.170	0.017	0.187	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.131	N/A	0.131	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 2.4G			
Head	Left Cheek	0.213	0.273	0.486	N/A	N/A

	Left Tilt 15 Degree	0.111	0.152	0.263	N/A	N/A
	Right Cheek	0.190	0.234	0.424	N/A	N/A
	Right Tilt 15 Degree	0.089	0.125	0.214	N/A	N/A
Body-Worn	Front Side	0.406	0.044	0.450	N/A	N/A
	Back Side	0.498	0.071	0.569	N/A	N/A
Hotspot	Front Side	0.406	0.044	0.450	N/A	N/A
	Back Side	0.498	0.071	0.569	N/A	N/A
	Left Side	0.357	N/A	0.357	N/A	N/A
	Right Side	0.239	0.017	0.256	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.170	N/A	0.170	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 2.4G			
Head	Left Cheek	0.255	0.273	0.528	N/A	N/A
	Left Tilt 15 Degree	0.135	0.152	0.287	N/A	N/A
	Right Cheek	0.218	0.234	0.452	N/A	N/A
	Right Tilt 15 Degree	0.115	0.125	0.240	N/A	N/A
Body-Worn	Front Side	0.564	0.044	0.608	N/A	N/A
	Back Side	0.676	0.071	0.747	N/A	N/A
Hotspot	Front Side	0.564	0.044	0.608	N/A	N/A
	Back Side	0.676	0.071	0.747	N/A	N/A
	Left Side	0.483	N/A	0.483	N/A	N/A
	Right Side	0.335	0.017	0.352	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.262	N/A	0.262	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 2.4G			
Head	Left Cheek	0.580	0.273	0.853	N/A	N/A
	Left Tilt 15 Degree	0.294	0.152	0.446	N/A	N/A
	Right Cheek	0.533	0.234	0.767	N/A	N/A
	Right Tilt 15 Degree	0.253	0.125	0.378	N/A	N/A
Body-Worn	Front Side	0.368	0.044	0.412	N/A	N/A
	Back Side	0.483	0.071	0.554	N/A	N/A
Hotspot	Front Side	0.368	0.044	0.412	N/A	N/A

	Back Side	0.483	0.071	0.554	N/A	N/A
	Left Side	0.355	N/A	0.355	N/A	N/A
	Right Side	0.219	0.017	0.236	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.181	N/A	0.181	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 2.4G			
Head	Left Cheek	0.387	0.273	0.660	N/A	N/A
	Left Tilt 15 Degree	0.225	0.152	0.377	N/A	N/A
	Right Cheek	0.354	0.234	0.588	N/A	N/A
	Right Tilt 15 Degree	0.170	0.125	0.295	N/A	N/A
Body-Worn	Front Side	0.607	0.044	0.651	N/A	N/A
	Back Side	0.764	0.071	0.835	N/A	N/A
Hotspot	Front Side	0.607	0.044	0.651	N/A	N/A
	Back Side	0.764	0.071	0.835	N/A	N/A
	Left Side	0.604	N/A	0.604	N/A	N/A
	Right Side	0.362	0.017	0.379	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.290	N/A	0.290	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 2.4G			
Head	Left Cheek	0.369	0.273	0.642	N/A	N/A
	Left Tilt 15 Degree	0.192	0.152	0.344	N/A	N/A
	Right Cheek	0.335	0.234	0.569	N/A	N/A
	Right Tilt 15 Degree	0.153	0.125	0.278	N/A	N/A
Body-Worn	Front Side	0.513	0.044	0.557	N/A	N/A
	Back Side	0.628	0.071	0.699	N/A	N/A
Hotspot	Front Side	0.513	0.044	0.557	N/A	N/A
	Back Side	0.628	0.071	0.699	N/A	N/A
	Left Side	0.480	N/A	0.480	N/A	N/A
	Right Side	0.276	0.017	0.293	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.225	N/A	0.225	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 2.4G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 2.4G			
Head	Left Cheek	0.422	0.273	0.695	N/A	N/A
	Left Tilt 15 Degree	0.234	0.152	0.386	N/A	N/A
	Right Cheek	0.362	0.234	0.596	N/A	N/A
	Right Tilt 15 Degree	0.173	0.125	0.298	N/A	N/A
Body-Worn	Front Side	0.555	0.044	0.599	N/A	N/A
	Back Side	0.695	0.071	0.766	N/A	N/A
Hotspot	Front Side	0.555	0.044	0.599	N/A	N/A
	Back Side	0.695	0.071	0.766	N/A	N/A
	Left Side	0.525	N/A	0.525	N/A	N/A
	Right Side	0.323	0.017	0.340	N/A	N/A
	Top Side	N/A	0.025	0.025	N/A	N/A
	Bottom Side	0.257	N/A	0.257	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 5.2G			
Head	Left Cheek	0.657	0.491	1.148	N/A	N/A
	Left Tilt 15 Degree	0.361	0.280	0.641	N/A	N/A
	Right Cheek	0.564	0.429	0.993	N/A	N/A
	Right Tilt 15 Degree	0.267	0.213	0.480	N/A	N/A
Body-Worn	Front Side	0.505	0.290	0.795	N/A	N/A
	Back Side	0.608	0.474	1.082	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.2G			
Head	Left Cheek	0.182	0.491	0.673	N/A	N/A
	Left Tilt 15 Degree	0.099	0.280	0.379	N/A	N/A
	Right Cheek	0.157	0.429	0.586	N/A	N/A
	Right Tilt 15 Degree	0.083	0.213	0.296	N/A	N/A
Body-Worn	Front Side	0.251	0.290	0.541	N/A	N/A
	Back Side	0.312	0.474	0.786	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA	WLAN 5.2G			

		Band 2				
Head	Left Cheek	0.305	0.491	0.796	N/A	N/A
	Left Tilt 15 Degree	0.180	0.280	0.460	N/A	N/A
	Right Cheek	0.287	0.429	0.716	N/A	N/A
	Right Tilt 15 Degree	0.131	0.213	0.344	N/A	N/A
Body-Worn	Front Side	0.356	0.290	0.646	N/A	N/A
	Back Side	0.436	0.474	0.910	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.2G			
Head	Left Cheek	0.322	0.491	0.813	N/A	N/A
	Left Tilt 15 Degree	0.174	0.280	0.454	N/A	N/A
	Right Cheek	0.294	0.429	0.723	N/A	N/A
	Right Tilt 15 Degree	0.144	0.213	0.357	N/A	N/A
Body-Worn	Front Side	0.470	0.290	0.760	N/A	N/A
	Back Side	0.587	0.474	1.061	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.2G			
Head	Left Cheek	0.404	0.491	0.895	N/A	N/A
	Left Tilt 15 Degree	0.216	0.280	0.496	N/A	N/A
	Right Cheek	0.358	0.429	0.787	N/A	N/A
	Right Tilt 15 Degree	0.191	0.213	0.404	N/A	N/A
Body-Worn	Front Side	0.268	0.290	0.558	N/A	N/A
	Back Side	0.357	0.474	0.831	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.2G			
Head	Left Cheek	0.213	0.491	0.704	N/A	N/A
	Left Tilt 15 Degree	0.111	0.280	0.391	N/A	N/A
	Right Cheek	0.190	0.429	0.619	N/A	N/A
	Right Tilt 15 Degree	0.089	0.213	0.302	N/A	N/A
Body-Worn	Front Side	0.406	0.290	0.696	N/A	N/A
	Back Side	0.498	0.474	0.972	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 5.2G			
Head	Left Cheek	0.255	0.491	0.746	N/A	N/A
	Left Tilt 15 Degree	0.135	0.280	0.415	N/A	N/A
	Right Cheek	0.218	0.429	0.647	N/A	N/A
	Right Tilt 15 Degree	0.115	0.213	0.328	N/A	N/A
Body-Worn	Front Side	0.564	0.290	0.854	N/A	N/A
	Back Side	0.676	0.474	1.150	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.2G			
Head	Left Cheek	0.580	0.491	1.071	N/A	N/A
	Left Tilt 15 Degree	0.294	0.280	0.574	N/A	N/A
	Right Cheek	0.533	0.429	0.962	N/A	N/A
	Right Tilt 15 Degree	0.253	0.213	0.466	N/A	N/A
Body-Worn	Front Side	0.368	0.290	0.658	N/A	N/A
	Back Side	0.483	0.474	0.957	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.2G			
Head	Left Cheek	0.387	0.491	0.878	N/A	N/A
	Left Tilt 15 Degree	0.225	0.280	0.505	N/A	N/A
	Right Cheek	0.354	0.429	0.783	N/A	N/A
	Right Tilt 15 Degree	0.170	0.213	0.383	N/A	N/A
Body-Worn	Front Side	0.607	0.290	0.897	N/A	N/A
	Back Side	0.764	0.474	1.238	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 5.2G			
Head	Left Cheek	0.369	0.491	0.860	N/A	N/A
	Left Tilt 15 Degree	0.192	0.280	0.472	N/A	N/A
	Right Cheek	0.335	0.429	0.764	N/A	N/A

	Right Tilt 15 Degree	0.153	0.213	0.366	N/A	N/A
Body-Worn	Front Side	0.513	0.290	0.803	N/A	N/A
	Back Side	0.628	0.474	1.102	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 5.2G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.2G			
Head	Left Cheek	0.422	0.491	0.913	N/A	N/A
	Left Tilt 15 Degree	0.234	0.280	0.514	N/A	N/A
	Right Cheek	0.362	0.429	0.791	N/A	N/A
	Right Tilt 15 Degree	0.173	0.213	0.386	N/A	N/A
Body-Worn	Front Side	0.555	0.290	0.845	N/A	N/A
	Back Side	0.695	0.474	1.169	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 5.8G			
Head	Left Cheek	0.657	0.487	1.144	N/A	N/A
	Left Tilt 15 Degree	0.361	0.277	0.638	N/A	N/A
	Right Cheek	0.564	0.460	1.024	N/A	N/A
	Right Tilt 15 Degree	0.267	0.247	0.514	N/A	N/A
Body-Worn	Front Side	0.505	0.228	0.733	N/A	N/A
	Back Side	0.608	0.361	0.969	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.8G			
Head	Left Cheek	0.182	0.487	0.669	N/A	N/A
	Left Tilt 15 Degree	0.099	0.277	0.376	N/A	N/A
	Right Cheek	0.157	0.460	0.617	N/A	N/A
	Right Tilt 15 Degree	0.083	0.247	0.330	N/A	N/A
Body-Worn	Front Side	0.251	0.228	0.479	N/A	N/A
	Back Side	0.312	0.361	0.673	N/A	N/A

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

Test Position	Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
	WCDMA Band 2	WLAN 5.8G			

Head	Left Cheek	0.305	0.487	0.792	N/A	N/A
	Left Tilt 15 Degree	0.180	0.277	0.457	N/A	N/A
	Right Cheek	0.287	0.460	0.747	N/A	N/A
	Right Tilt 15 Degree	0.131	0.247	0.378	N/A	N/A
Body-Worn	Front Side	0.356	0.228	0.584	N/A	N/A
	Back Side	0.436	0.361	0.797	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.8G			
Head	Left Cheek	0.322	0.487	0.809	N/A	N/A
	Left Tilt 15 Degree	0.174	0.277	0.451	N/A	N/A
	Right Cheek	0.294	0.460	0.754	N/A	N/A
	Right Tilt 15 Degree	0.144	0.247	0.391	N/A	N/A
Body-Worn	Front Side	0.470	0.228	0.698	N/A	N/A
	Back Side	0.587	0.361	0.948	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.8G			
Head	Left Cheek	0.404	0.487	0.891	N/A	N/A
	Left Tilt 15 Degree	0.216	0.277	0.493	N/A	N/A
	Right Cheek	0.358	0.460	0.818	N/A	N/A
	Right Tilt 15 Degree	0.191	0.247	0.438	N/A	N/A
Body-Worn	Front Side	0.268	0.228	0.496	N/A	N/A
	Back Side	0.357	0.361	0.718	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.8G			
Head	Left Cheek	0.213	0.487	0.700	N/A	N/A
	Left Tilt 15 Degree	0.111	0.277	0.388	N/A	N/A
	Right Cheek	0.190	0.460	0.650	N/A	N/A
	Right Tilt 15 Degree	0.089	0.247	0.336	N/A	N/A
Body-Worn	Front Side	0.406	0.228	0.634	N/A	N/A
	Back Side	0.498	0.361	0.859	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 5.8G			
Head	Left Cheek	0.255	0.487	0.742	N/A	N/A
	Left Tilt 15 Degree	0.135	0.277	0.412	N/A	N/A
	Right Cheek	0.218	0.460	0.678	N/A	N/A
	Right Tilt 15 Degree	0.115	0.247	0.362	N/A	N/A
Body-Worn	Front Side	0.564	0.228	0.792	N/A	N/A
	Back Side	0.676	0.361	1.037	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.8G			
Head	Left Cheek	0.580	0.487	1.067	N/A	N/A
	Left Tilt 15 Degree	0.294	0.277	0.571	N/A	N/A
	Right Cheek	0.533	0.460	0.993	N/A	N/A
	Right Tilt 15 Degree	0.253	0.247	0.500	N/A	N/A
Body-Worn	Front Side	0.368	0.228	0.596	N/A	N/A
	Back Side	0.483	0.361	0.844	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.8G			
Head	Left Cheek	0.387	0.487	0.874	N/A	N/A
	Left Tilt 15 Degree	0.225	0.277	0.502	N/A	N/A
	Right Cheek	0.354	0.460	0.814	N/A	N/A
	Right Tilt 15 Degree	0.170	0.247	0.417	N/A	N/A
Body-Worn	Front Side	0.607	0.228	0.835	N/A	N/A
	Back Side	0.764	0.361	1.125	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 5.8G			
Head	Left Cheek	0.369	0.487	0.856	N/A	N/A
	Left Tilt 15 Degree	0.192	0.277	0.469	N/A	N/A
	Right Cheek	0.335	0.460	0.795	N/A	N/A
	Right Tilt 15 Degree	0.153	0.247	0.400	N/A	N/A

Body-Worn	Front Side	0.513	0.228	0.741	N/A	N/A
	Back Side	0.628	0.361	0.989	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 5.8G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.8G			
Head	Left Cheek	0.422	0.487	0.909	N/A	N/A
	Left Tilt 15 Degree	0.234	0.277	0.511	N/A	N/A
	Right Cheek	0.362	0.460	0.822	N/A	N/A
	Right Tilt 15 Degree	0.173	0.247	0.420	N/A	N/A
Body-Worn	Front Side	0.555	0.228	0.783	N/A	N/A
	Back Side	0.695	0.361	1.056	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	Bluetooth			
Head	Left Cheek	0.657	0.210	0.867	N/A	N/A
	Left Tilt 15 Degree	0.361	0.210	0.571	N/A	N/A
	Right Cheek	0.564	0.210	0.774	N/A	N/A
	Right Tilt 15 Degree	0.267	0.210	0.477	N/A	N/A
Body-Worn	Front Side	0.505	0.105	0.610	N/A	N/A
	Back Side	0.608	0.105	0.713	N/A	N/A
Hotspot	Front Side	0.505	0.105	0.610	N/A	N/A
	Back Side	0.608	0.105	0.713	N/A	N/A
	Left Side	0.473	N/A	0.473	N/A	N/A
	Right Side	0.298	0.105	0.403	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.211	N/A	0.211	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	Bluetooth			
Head	Left Cheek	0.182	0.210	0.392	N/A	N/A
	Left Tilt 15 Degree	0.099	0.210	0.309	N/A	N/A
	Right Cheek	0.157	0.210	0.367	N/A	N/A
	Right Tilt 15 Degree	0.083	0.210	0.293	N/A	N/A
Body-Worn	Front Side	0.251	0.105	0.356	N/A	N/A
	Back Side	0.312	0.105	0.417	N/A	N/A

Hotspot	Front Side	0.251	0.105	0.356	N/A	N/A
	Back Side	0.312	0.105	0.417	N/A	N/A
	Left Side	0.228	N/A	0.228	N/A	N/A
	Right Side	0.155	0.105	0.260	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.123	N/A	0.123	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	Bluetooth			
Head	Left Cheek	0.305	0.210	0.515	N/A	N/A
	Left Tilt 15 Degree	0.180	0.210	0.390	N/A	N/A
	Right Cheek	0.287	0.210	0.497	N/A	N/A
	Right Tilt 15 Degree	0.131	0.210	0.341	N/A	N/A
Body-Worn	Front Side	0.356	0.105	0.461	N/A	N/A
	Back Side	0.436	0.105	0.541	N/A	N/A
Hotspot	Front Side	0.356	0.105	0.461	N/A	N/A
	Back Side	0.436	0.105	0.541	N/A	N/A
	Left Side	0.332	N/A	0.332	N/A	N/A
	Right Side	0.212	0.105	0.317	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.174	N/A	0.174	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	Bluetooth			
Head	Left Cheek	0.322	0.210	0.532	N/A	N/A
	Left Tilt 15 Degree	0.174	0.210	0.384	N/A	N/A
	Right Cheek	0.294	0.210	0.504	N/A	N/A
	Right Tilt 15 Degree	0.144	0.210	0.354	N/A	N/A
Body-Worn	Front Side	0.470	0.105	0.575	N/A	N/A
	Back Side	0.587	0.105	0.692	N/A	N/A
Hotspot	Front Side	0.470	0.105	0.575	N/A	N/A
	Back Side	0.587	0.105	0.692	N/A	N/A
	Left Side	0.459	N/A	0.459	N/A	N/A
	Right Side	0.268	0.105	0.373	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.224	N/A	0.224	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	Bluetooth			
Head	Left Cheek	0.404	0.210	0.614	N/A	N/A
	Left Tilt 15 Degree	0.216	0.210	0.426	N/A	N/A
	Right Cheek	0.358	0.210	0.568	N/A	N/A
	Right Tilt 15 Degree	0.191	0.210	0.401	N/A	N/A
Body-Worn	Front Side	0.268	0.105	0.373	N/A	N/A
	Back Side	0.357	0.105	0.462	N/A	N/A
Hotspot	Front Side	0.268	0.105	0.373	N/A	N/A
	Back Side	0.357	0.105	0.462	N/A	N/A
	Left Side	0.284	N/A	0.284	N/A	N/A
	Right Side	0.170	0.105	0.275	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.131	N/A	0.131	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	Bluetooth			
Head	Left Cheek	0.213	0.210	0.423	N/A	N/A
	Left Tilt 15 Degree	0.111	0.210	0.321	N/A	N/A
	Right Cheek	0.190	0.210	0.400	N/A	N/A
	Right Tilt 15 Degree	0.089	0.210	0.299	N/A	N/A
Body-Worn	Front Side	0.406	0.105	0.511	N/A	N/A
	Back Side	0.498	0.105	0.603	N/A	N/A
Hotspot	Front Side	0.406	0.105	0.511	N/A	N/A
	Back Side	0.498	0.105	0.603	N/A	N/A
	Left Side	0.357	N/A	0.357	N/A	N/A
	Right Side	0.239	0.105	0.344	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.170	N/A	0.170	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	Bluetooth			
Head	Left Cheek	0.255	0.210	0.465	N/A	N/A
	Left Tilt 15 Degree	0.135	0.210	0.345	N/A	N/A

	Right Cheek	0.218	0.210	0.428	N/A	N/A
	Right Tilt 15 Degree	0.115	0.210	0.325	N/A	N/A
Body-Worn	Front Side	0.564	0.105	0.669	N/A	N/A
	Back Side	0.676	0.105	0.781	N/A	N/A
Hotspot	Front Side	0.564	0.105	0.669	N/A	N/A
	Back Side	0.676	0.105	0.781	N/A	N/A
	Left Side	0.483	N/A	0.483	N/A	N/A
	Right Side	0.335	0.105	0.440	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.262	N/A	0.262	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	Bluetooth			
Head	Left Cheek	0.580	0.210	0.790	N/A	N/A
	Left Tilt 15 Degree	0.294	0.210	0.504	N/A	N/A
	Right Cheek	0.533	0.210	0.743	N/A	N/A
	Right Tilt 15 Degree	0.253	0.210	0.463	N/A	N/A
Body-Worn	Front Side	0.368	0.105	0.473	N/A	N/A
	Back Side	0.483	0.105	0.588	N/A	N/A
Hotspot	Front Side	0.368	0.105	0.473	N/A	N/A
	Back Side	0.483	0.105	0.588	N/A	N/A
	Left Side	0.355	N/A	0.355	N/A	N/A
	Right Side	0.219	0.105	0.324	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.181	N/A	0.181	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	Bluetooth			
Head	Left Cheek	0.387	0.210	0.597	N/A	N/A
	Left Tilt 15 Degree	0.225	0.210	0.435	N/A	N/A
	Right Cheek	0.354	0.210	0.564	N/A	N/A
	Right Tilt 15 Degree	0.170	0.210	0.380	N/A	N/A
Body-Worn	Front Side	0.607	0.105	0.712	N/A	N/A
	Back Side	0.764	0.105	0.869	N/A	N/A
Hotspot	Front Side	0.607	0.105	0.712	N/A	N/A
	Back Side	0.764	0.105	0.869	N/A	N/A

	Left Side	0.604	N/A	0.604	N/A	N/A
	Right Side	0.362	0.105	0.467	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.290	N/A	0.290	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	Bluetooth			
Head	Left Cheek	0.369	0.210	0.579	N/A	N/A
	Left Tilt 15 Degree	0.192	0.210	0.402	N/A	N/A
	Right Cheek	0.335	0.210	0.545	N/A	N/A
	Right Tilt 15 Degree	0.153	0.210	0.363	N/A	N/A
Body-Worn	Front Side	0.513	0.105	0.618	N/A	N/A
	Back Side	0.628	0.105	0.733	N/A	N/A
Hotspot	Front Side	0.513	0.105	0.618	N/A	N/A
	Back Side	0.628	0.105	0.733	N/A	N/A
	Left Side	0.480	N/A	0.480	N/A	N/A
	Right Side	0.276	0.105	0.381	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.225	N/A	0.225	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and Bluetooth.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	Bluetooth			
Head	Left Cheek	0.422	0.210	0.632	N/A	N/A
	Left Tilt 15 Degree	0.234	0.210	0.444	N/A	N/A
	Right Cheek	0.362	0.210	0.572	N/A	N/A
	Right Tilt 15 Degree	0.173	0.210	0.383	N/A	N/A
Body-Worn	Front Side	0.555	0.105	0.660	N/A	N/A
	Back Side	0.695	0.105	0.800	N/A	N/A
Hotspot	Front Side	0.555	0.105	0.660	N/A	N/A
	Back Side	0.695	0.105	0.800	N/A	N/A
	Left Side	0.525	N/A	0.525	N/A	N/A
	Right Side	0.323	0.105	0.428	N/A	N/A
	Top Side	N/A	0.105	0.105	N/A	N/A
	Bottom Side	0.257	N/A	0.257	N/A	N/A

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

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 850	WLAN 5.3G			
Head	Left Cheek	0.657	0.156	0.813	N/A	N/A
	Left Tilt 15 Degree	0.361	0.091	0.452	N/A	N/A
	Right Cheek	0.564	0.142	0.706	N/A	N/A
	Right Tilt 15 Degree	0.267	0.072	0.339	N/A	N/A
Body-Worn	Front Side	0.505	0.138	0.643	N/A	N/A
	Back Side	0.608	0.214	0.822	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.3G			
Head	Left Cheek	0.182	0.156	0.338	N/A	N/A
	Left Tilt 15 Degree	0.099	0.091	0.190	N/A	N/A
	Right Cheek	0.157	0.142	0.299	N/A	N/A
	Right Tilt 15 Degree	0.083	0.072	0.155	N/A	N/A
Body-Worn	Front Side	0.251	0.138	0.389	N/A	N/A
	Back Side	0.312	0.214	0.526	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 5.3G			
Head	Left Cheek	0.305	0.156	0.461	N/A	N/A
	Left Tilt 15 Degree	0.180	0.091	0.271	N/A	N/A
	Right Cheek	0.287	0.142	0.429	N/A	N/A
	Right Tilt 15 Degree	0.131	0.072	0.203	N/A	N/A
Body-Worn	Front Side	0.356	0.138	0.494	N/A	N/A
	Back Side	0.436	0.214	0.650	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.3G			
Head	Left Cheek	0.322	0.156	0.478	N/A	N/A
	Left Tilt 15 Degree	0.174	0.091	0.265	N/A	N/A
	Right Cheek	0.294	0.142	0.436	N/A	N/A
	Right Tilt 15 Degree	0.144	0.072	0.216	N/A	N/A

Body-Worn	Front Side	0.470	0.138	0.608	N/A	N/A
	Back Side	0.587	0.214	0.801	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.3G			
Head	Left Cheek	0.404	0.156	0.560	N/A	N/A
	Left Tilt 15 Degree	0.216	0.091	0.307	N/A	N/A
	Right Cheek	0.358	0.142	0.500	N/A	N/A
	Right Tilt 15 Degree	0.191	0.072	0.263	N/A	N/A
Body-Worn	Front Side	0.268	0.138	0.406	N/A	N/A
	Back Side	0.357	0.214	0.571	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.3G			
Head	Left Cheek	0.213	0.156	0.369	N/A	N/A
	Left Tilt 15 Degree	0.111	0.091	0.202	N/A	N/A
	Right Cheek	0.190	0.142	0.332	N/A	N/A
	Right Tilt 15 Degree	0.089	0.072	0.161	N/A	N/A
Body-Worn	Front Side	0.406	0.138	0.544	N/A	N/A
	Back Side	0.498	0.214	0.712	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 5.3G			
Head	Left Cheek	0.255	0.156	0.411	N/A	N/A
	Left Tilt 15 Degree	0.135	0.091	0.226	N/A	N/A
	Right Cheek	0.218	0.142	0.360	N/A	N/A
	Right Tilt 15 Degree	0.115	0.072	0.187	N/A	N/A
Body-Worn	Front Side	0.564	0.138	0.702	N/A	N/A
	Back Side	0.676	0.214	0.890	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.3G			
Head	Left Cheek	0.580	0.156	0.736	N/A	N/A
	Left Tilt 15 Degree	0.294	0.091	0.385	N/A	N/A

	Right Cheek	0.533	0.142	0.675	N/A	N/A
	Right Tilt 15 Degree	0.253	0.072	0.325	N/A	N/A
Body-Worn	Front Side	0.368	0.138	0.506	N/A	N/A
	Back Side	0.483	0.214	0.697	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.3G			
Head	Left Cheek	0.387	0.156	0.543	N/A	N/A
	Left Tilt 15 Degree	0.225	0.091	0.316	N/A	N/A
	Right Cheek	0.354	0.142	0.496	N/A	N/A
	Right Tilt 15 Degree	0.170	0.072	0.242	N/A	N/A
Body-Worn	Front Side	0.607	0.138	0.745	N/A	N/A
	Back Side	0.764	0.214	0.978	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 5.3G			
Head	Left Cheek	0.369	0.156	0.525	N/A	N/A
	Left Tilt 15 Degree	0.192	0.091	0.283	N/A	N/A
	Right Cheek	0.335	0.142	0.477	N/A	N/A
	Right Tilt 15 Degree	0.153	0.072	0.225	N/A	N/A
Body-Worn	Front Side	0.513	0.138	0.651	N/A	N/A
	Back Side	0.628	0.214	0.842	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 5.3G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.3G			
Head	Left Cheek	0.422	0.156	0.578	N/A	N/A
	Left Tilt 15 Degree	0.234	0.091	0.325	N/A	N/A
	Right Cheek	0.362	0.142	0.504	N/A	N/A
	Right Tilt 15 Degree	0.173	0.072	0.245	N/A	N/A
Body-Worn	Front Side	0.555	0.138	0.693	N/A	N/A
	Back Side	0.695	0.214	0.909	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 5.3G.

Test Position	Scaled SAR_{MAX}	∑1-g SAR	SPLSR	Remark

		GSM 850	WLAN 5.6G	(W/Kg)		
Head	Left Cheek	0.657	0.387	1.044	N/A	N/A
	Left Tilt 15 Degree	0.361	0.216	0.577	N/A	N/A
	Right Cheek	0.564	0.342	0.906	N/A	N/A
	Right Tilt 15 Degree	0.267	0.185	0.452	N/A	N/A
Body-Worn	Front Side	0.505	0.364	0.869	N/A	N/A
	Back Side	0.608	0.511	1.119	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM850 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		GSM 1900	WLAN 5.6G			
Head	Left Cheek	0.182	0.387	0.569	N/A	N/A
	Left Tilt 15 Degree	0.099	0.216	0.315	N/A	N/A
	Right Cheek	0.157	0.342	0.499	N/A	N/A
	Right Tilt 15 Degree	0.083	0.185	0.268	N/A	N/A
Body-Worn	Front Side	0.251	0.364	0.615	N/A	N/A
	Back Side	0.312	0.511	0.823	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of GSM1900 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 2	WLAN 5.6G			
Head	Left Cheek	0.305	0.387	0.692	N/A	N/A
	Left Tilt 15 Degree	0.180	0.216	0.396	N/A	N/A
	Right Cheek	0.287	0.342	0.629	N/A	N/A
	Right Tilt 15 Degree	0.131	0.185	0.316	N/A	N/A
Body-Worn	Front Side	0.356	0.364	0.720	N/A	N/A
	Back Side	0.436	0.511	0.947	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 2 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 4	WLAN 5.6G			
Head	Left Cheek	0.322	0.387	0.709	N/A	N/A
	Left Tilt 15 Degree	0.174	0.216	0.390	N/A	N/A
	Right Cheek	0.294	0.342	0.636	N/A	N/A
	Right Tilt 15 Degree	0.144	0.185	0.329	N/A	N/A
Body-Worn	Front Side	0.470	0.364	0.834	N/A	N/A
	Back Side	0.587	0.511	1.098	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 4 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		WCDMA Band 5	WLAN 5.6G			
Head	Left Cheek	0.404	0.387	0.791	N/A	N/A
	Left Tilt 15 Degree	0.216	0.216	0.432	N/A	N/A
	Right Cheek	0.358	0.342	0.700	N/A	N/A
	Right Tilt 15 Degree	0.191	0.185	0.376	N/A	N/A
Body-Worn	Front Side	0.268	0.364	0.632	N/A	N/A
	Back Side	0.357	0.511	0.868	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of WCDMA Band 5 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 2	WLAN 5.6G			
Head	Left Cheek	0.213	0.387	0.600	N/A	N/A
	Left Tilt 15 Degree	0.111	0.216	0.327	N/A	N/A
	Right Cheek	0.190	0.342	0.532	N/A	N/A
	Right Tilt 15 Degree	0.089	0.185	0.274	N/A	N/A
Body-Worn	Front Side	0.406	0.364	0.770	N/A	N/A
	Back Side	0.498	0.511	1.009	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 2 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 4	WLAN 5.6G			
Head	Left Cheek	0.255	0.387	0.642	N/A	N/A
	Left Tilt 15 Degree	0.135	0.216	0.351	N/A	N/A
	Right Cheek	0.218	0.342	0.560	N/A	N/A
	Right Tilt 15 Degree	0.115	0.185	0.300	N/A	N/A
Body-Worn	Front Side	0.564	0.364	0.928	N/A	N/A
	Back Side	0.676	0.511	1.187	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 4 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 5	WLAN 5.6G			
Head	Left Cheek	0.580	0.387	0.967	N/A	N/A
	Left Tilt 15 Degree	0.294	0.216	0.510	N/A	N/A
	Right Cheek	0.533	0.342	0.875	N/A	N/A
	Right Tilt 15	0.253	0.185	0.438	N/A	N/A

	Degree					
Body-Worn	Front Side	0.368	0.364	0.732	N/A	N/A
	Back Side	0.483	0.511	0.994	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 5 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 7	WLAN 5.6G			
Head	Left Cheek	0.387	0.387	0.774	N/A	N/A
	Left Tilt 15 Degree	0.225	0.216	0.441	N/A	N/A
	Right Cheek	0.354	0.342	0.696	N/A	N/A
	Right Tilt 15 Degree	0.170	0.185	0.355	N/A	N/A
Body-Worn	Front Side	0.607	0.364	0.971	N/A	N/A
	Back Side	0.764	0.511	1.275	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 7 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 12	WLAN 5.6G			
Head	Left Cheek	0.369	0.387	0.756	N/A	N/A
	Left Tilt 15 Degree	0.192	0.216	0.408	N/A	N/A
	Right Cheek	0.335	0.342	0.677	N/A	N/A
	Right Tilt 15 Degree	0.153	0.185	0.338	N/A	N/A
Body-Worn	Front Side	0.513	0.364	0.877	N/A	N/A
	Back Side	0.628	0.511	1.139	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 12 and WLAN 5.6G.

Test Position		Scaled SAR_{MAX}		∑1-g SAR (W/Kg)	SPLSR	Remark
		LTE Band 17	WLAN 5.6G			
Head	Left Cheek	0.422	0.387	0.809	N/A	N/A
	Left Tilt 15 Degree	0.234	0.216	0.450	N/A	N/A
	Right Cheek	0.362	0.342	0.704	N/A	N/A
	Right Tilt 15 Degree	0.173	0.185	0.358	N/A	N/A
Body-Worn	Front Side	0.555	0.364	0.919	N/A	N/A
	Back Side	0.695	0.511	1.206	N/A	N/A

NOTE: 1-g SAR Simultaneous Tx Combination of LTE Band 17 and WLAN 5.6G.

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

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MEASUREMENT 1 System Performance Check - SID750 - Head
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MEASUREMENT 1

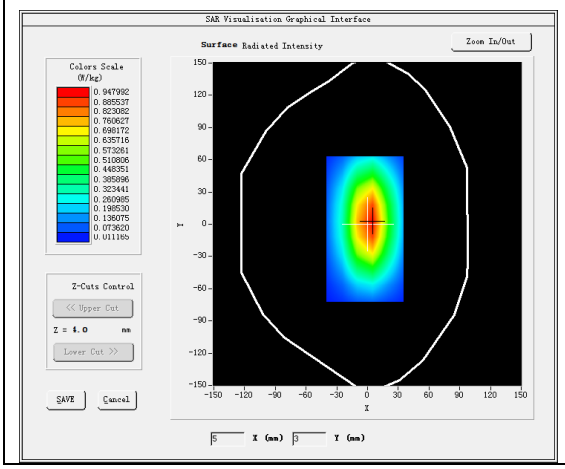
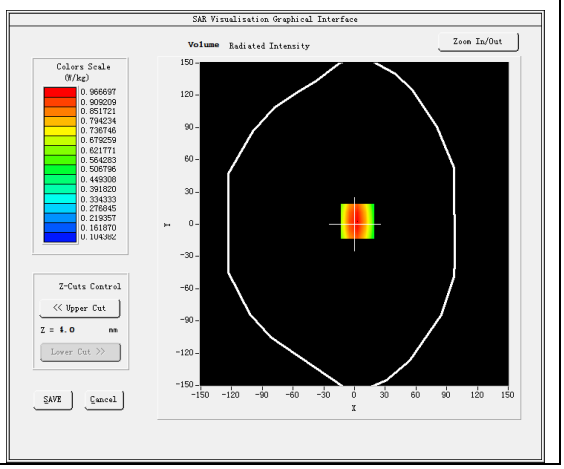
Date of measurement: 7/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

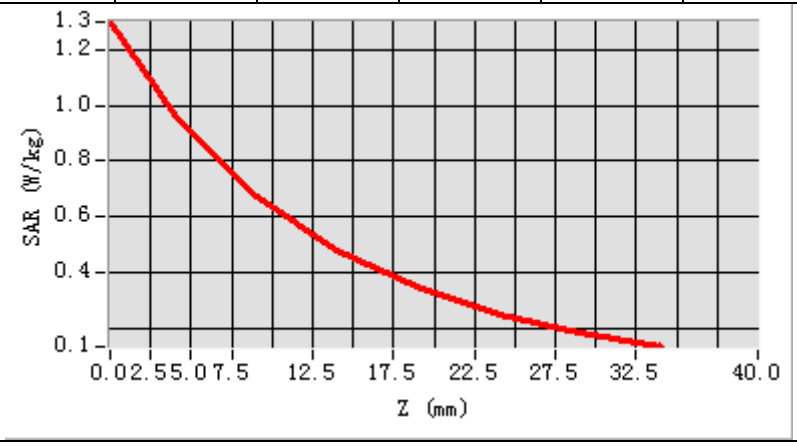
Frequency (MHz)	750.000000
Relative permittivity (real part)	41.613162
Relative permittivity (imaginary part)	22.071263
Conductivity (S/m)	0.920362
Variation (%)	-1.810000

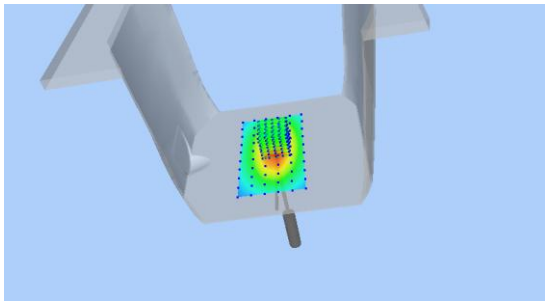
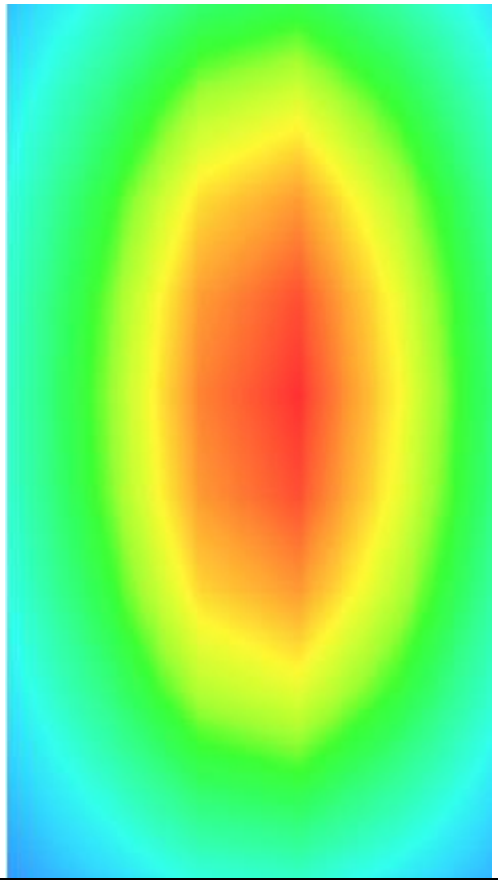
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=3.00
SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.553218
SAR 1g (W/Kg)	0.899062

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2913	0.9633	0.6716	0.4837	0.3478	0.2536	0.1837



3D screen shot	Hot spot position
	

MEASUREMENT 2

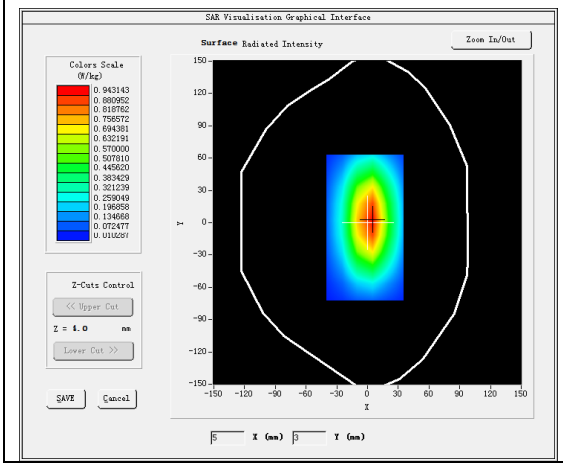
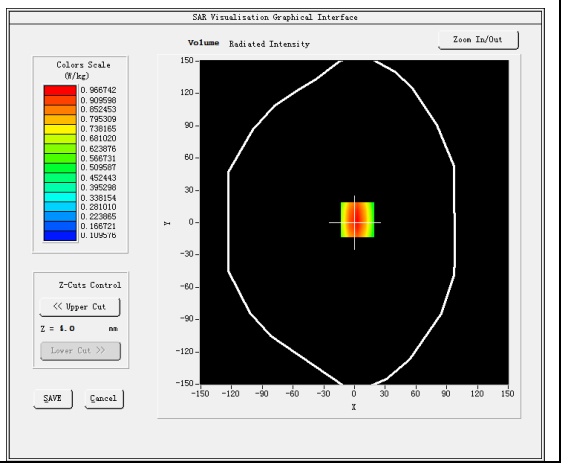
Date of measurement: 8/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

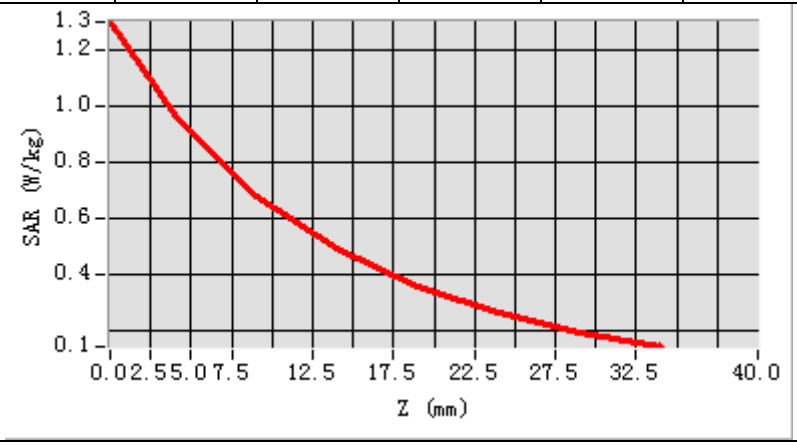
Frequency (MHz)	750.000000
Relative permittivity (real part)	55.540248
Relative permittivity (imaginary part)	23.383842
Conductivity (S/m)	0.970318
Variation (%)	-0.490000

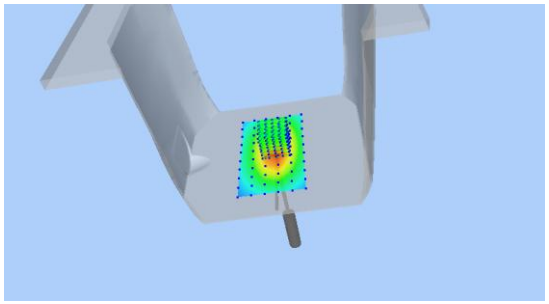
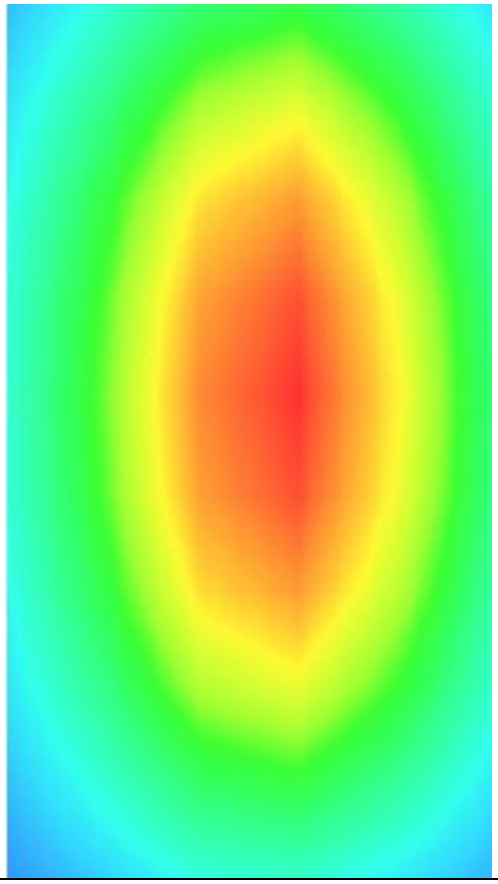
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=3.00
SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.602281
SAR 1g (W/Kg)	0.925263

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2957	0.9688	0.6736	0.4819	0.3573	0.2623	0.1930



3D screen shot	Hot spot position
	

MEASUREMENT 3

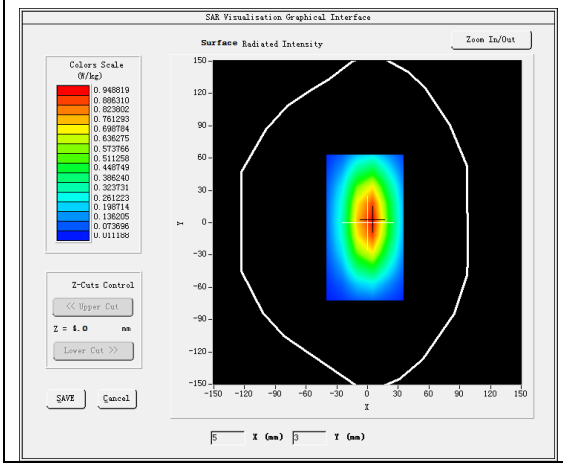
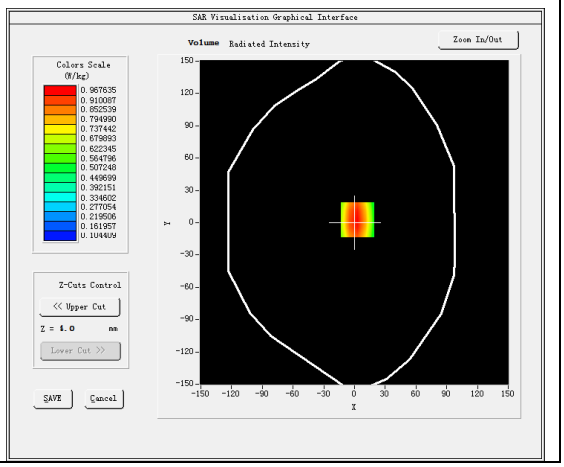
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

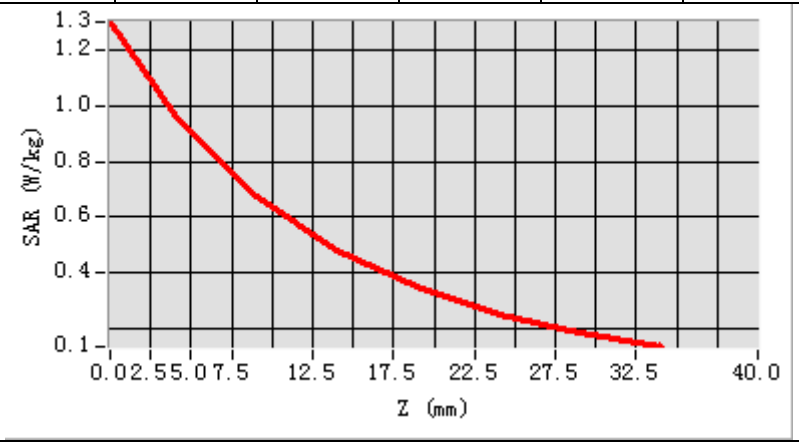
Frequency (MHz)	835.000000
Relative permittivity (real part)	40.843500
Relative permittivity (imaginary part)	19.921602
Conductivity (S/m)	0.920502
Variation (%)	1.870000

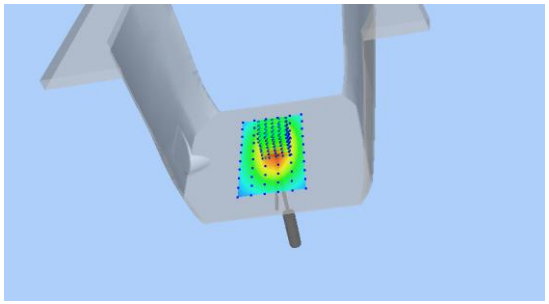
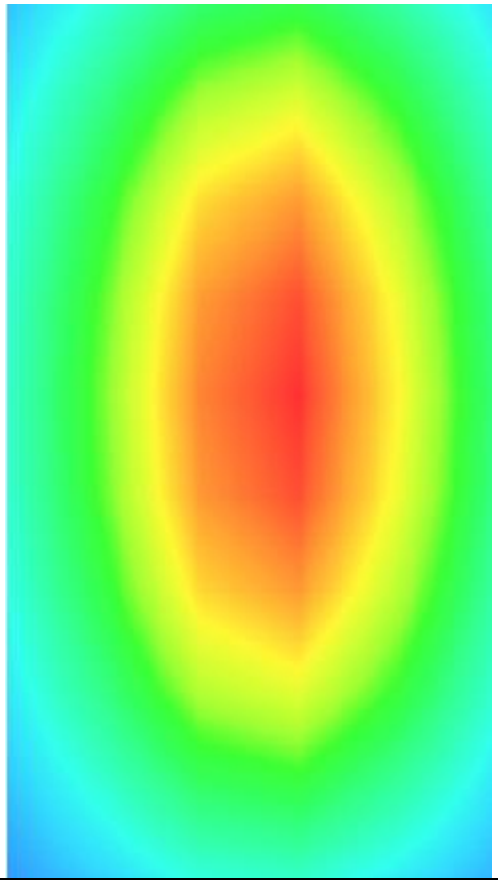
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=3.00
SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.615433
SAR 1g (W/Kg)	1.015035

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3026	0.9678	0.6705	0.4851	0.3491	0.2507	0.1863



3D screen shot	Hot spot position
	

MEASUREMENT 4

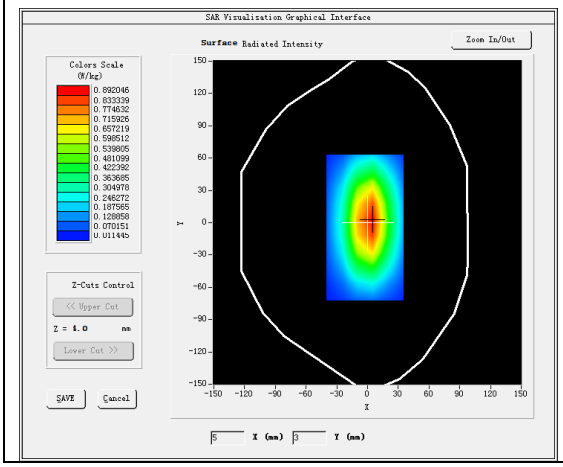
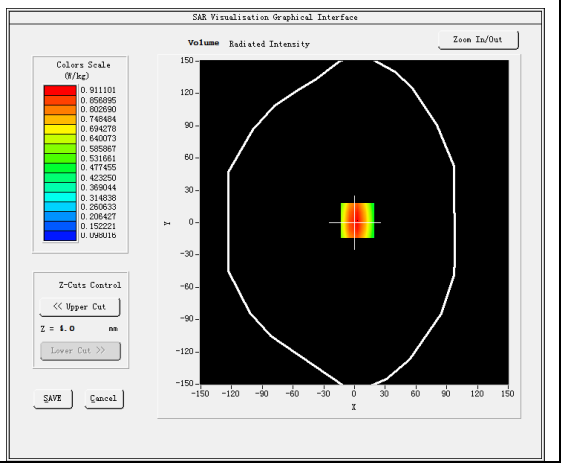
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

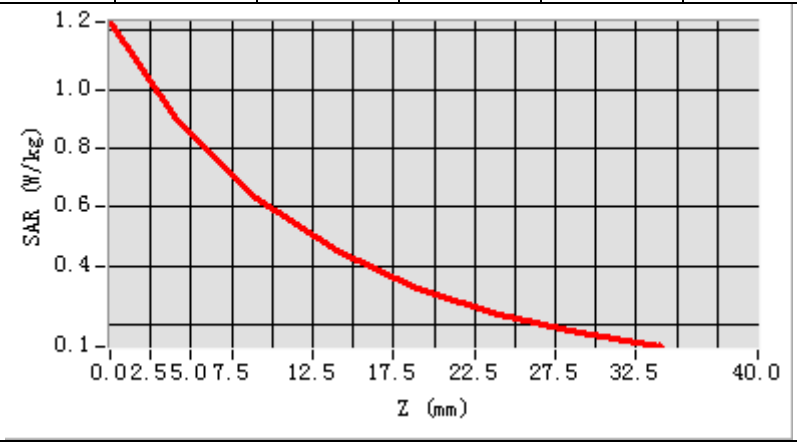
Frequency (MHz)	835.000000
Relative permittivity (real part)	54.571100
Relative permittivity (imaginary part)	21.163459
Conductivity (S/m)	0.980836
Variation (%)	-1.210000

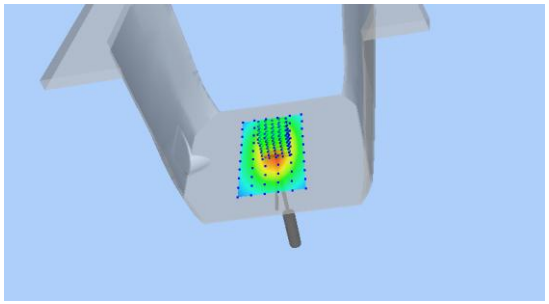
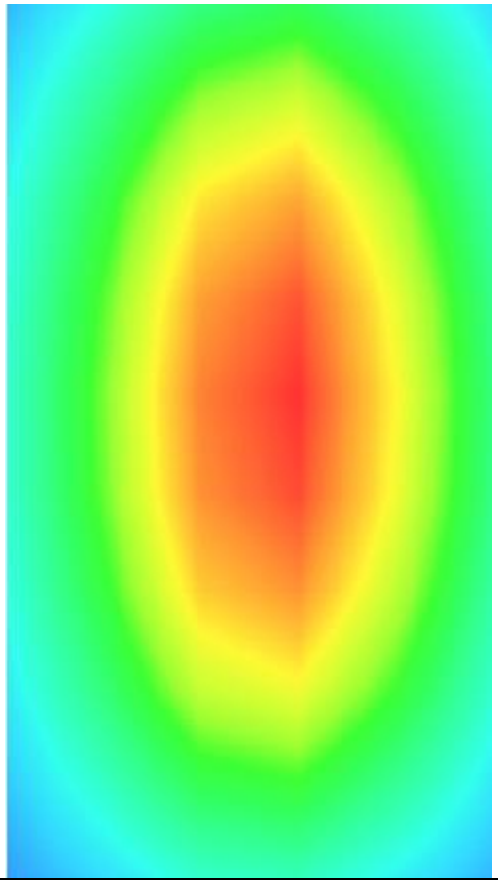
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=2.00
SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.633023
SAR 1g (W/Kg)	0.923356

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2214	0.9178	0.6330	0.4575	0.3252	0.2301	0.1735



3D screen shot	Hot spot position
	

MEASUREMENT 5

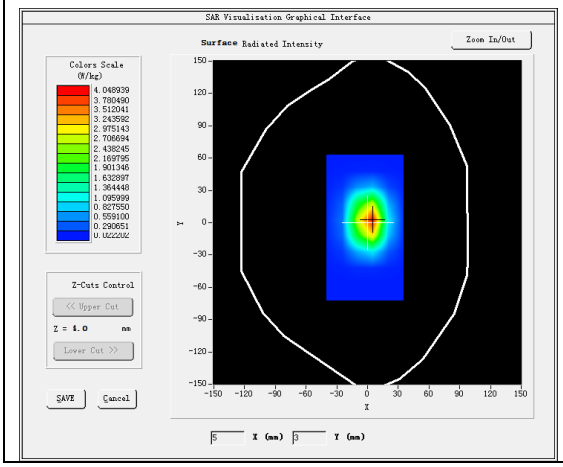
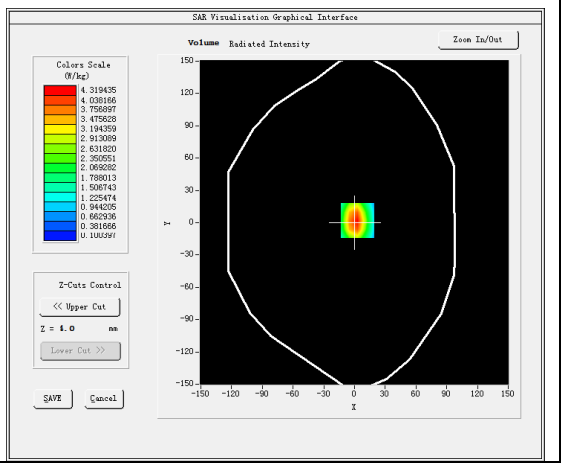
Date of measurement: 7/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

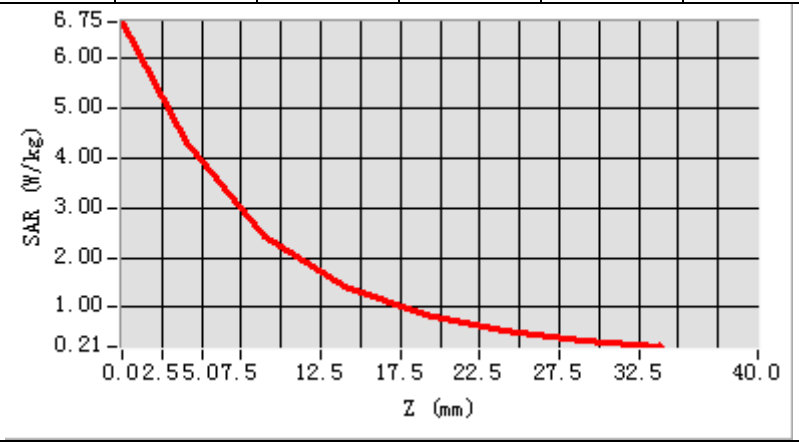
Frequency (MHz)	1800.000000
Relative permittivity (real part)	38.661237
Relative permittivity (imaginary part)	13.793229
Conductivity (S/m)	1.380365
Variation (%)	-2.113000

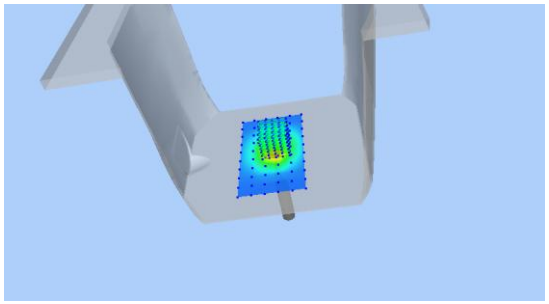
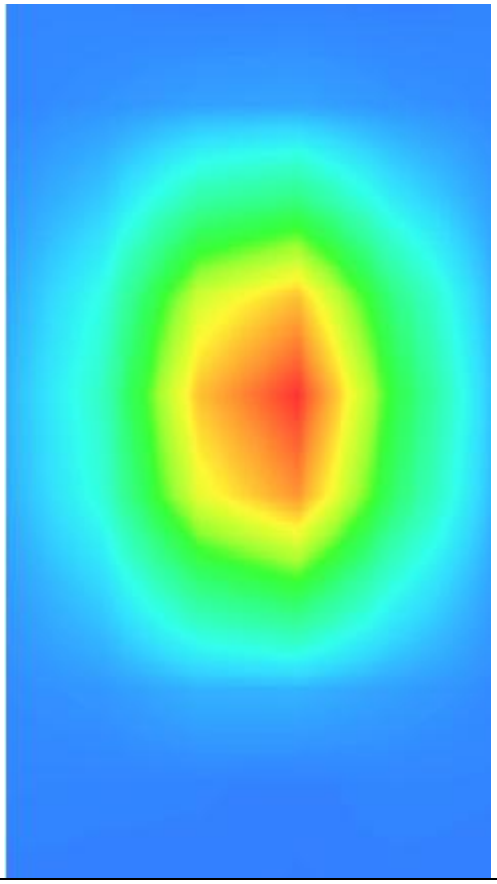
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=2.00
SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	2.097397
SAR 1g (W/Kg)	3.891451

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7434	4.3126	2.4318	1.4277	0.8554	0.5237	0.3279



3D screen shot	Hot spot position
	

MEASUREMENT 6

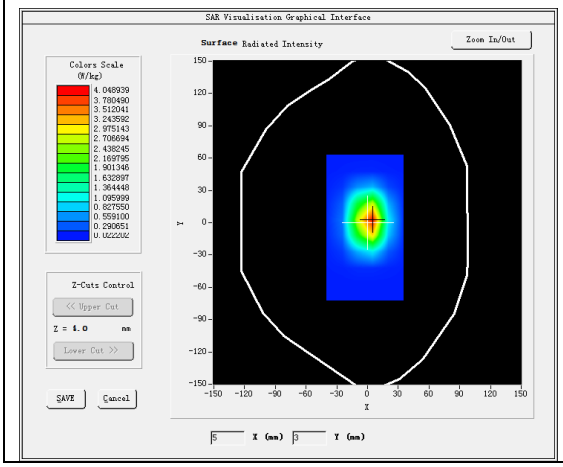
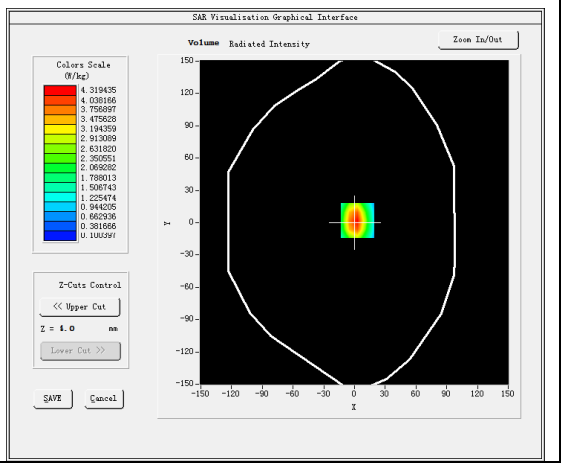
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

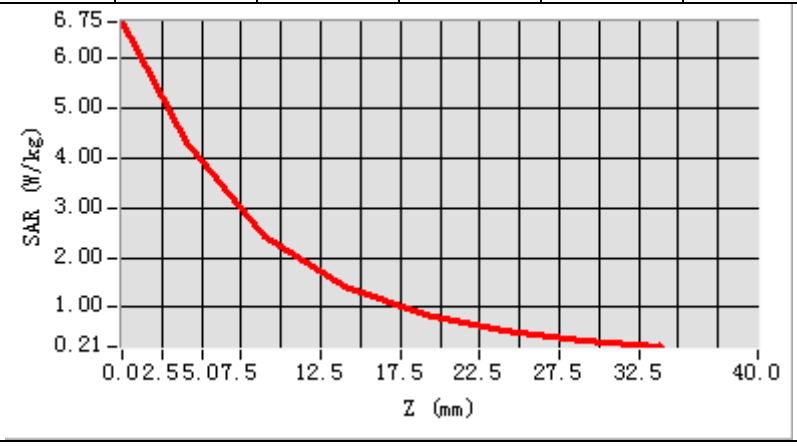
Frequency (MHz)	1800.000000
Relative permittivity (real part)	54.103510
Relative permittivity (imaginary part)	15.110016
Conductivity (S/m)	1.513096
Variation (%)	1.510000

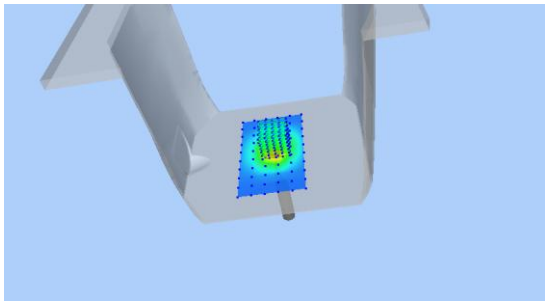
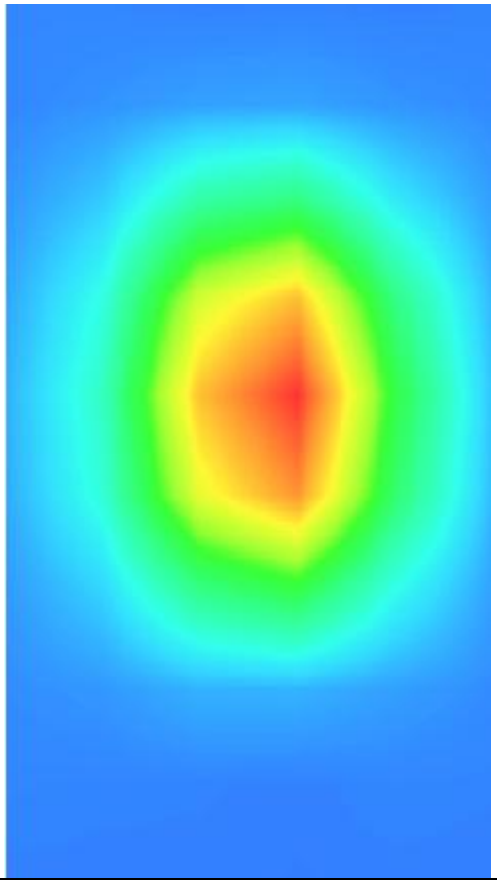
SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=2.00
SAR Peak: 6.82 W/kg

SAR 10g (W/Kg)	1.982239
SAR 1g (W/Kg)	3.930268

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7434	4.3133	2.4332	1.4247	0.8577	0.5244	0.3266



3D screen shot	Hot spot position
	

MEASUREMENT 7

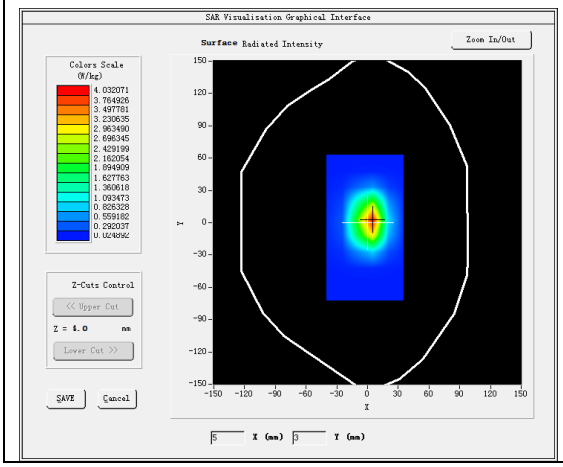
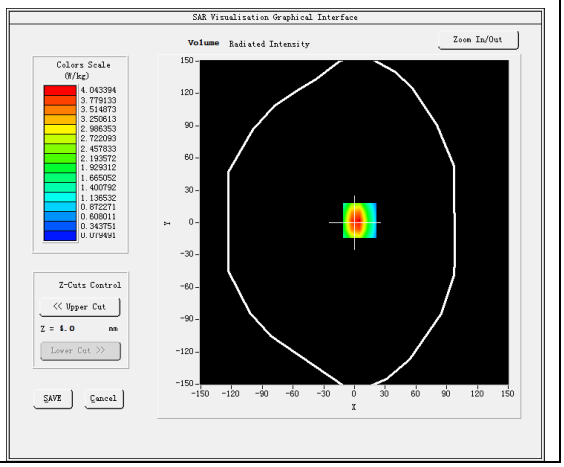
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

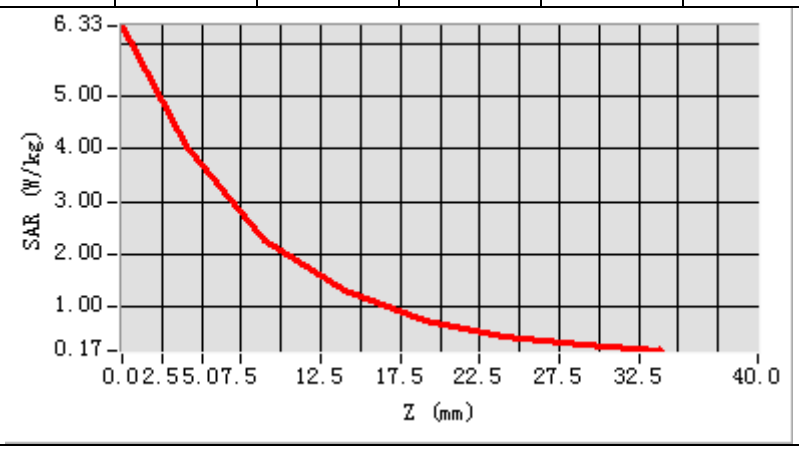
Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.721017
Relative permittivity (imaginary part)	13.573006
Conductivity (S/m)	1.430302
Variation (%)	-1.430000

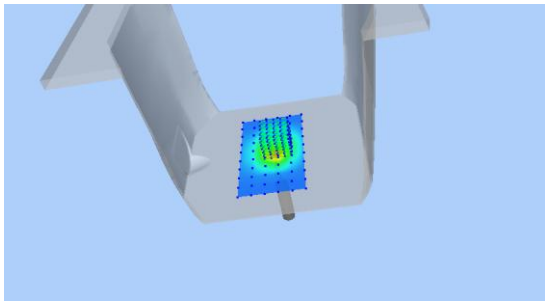
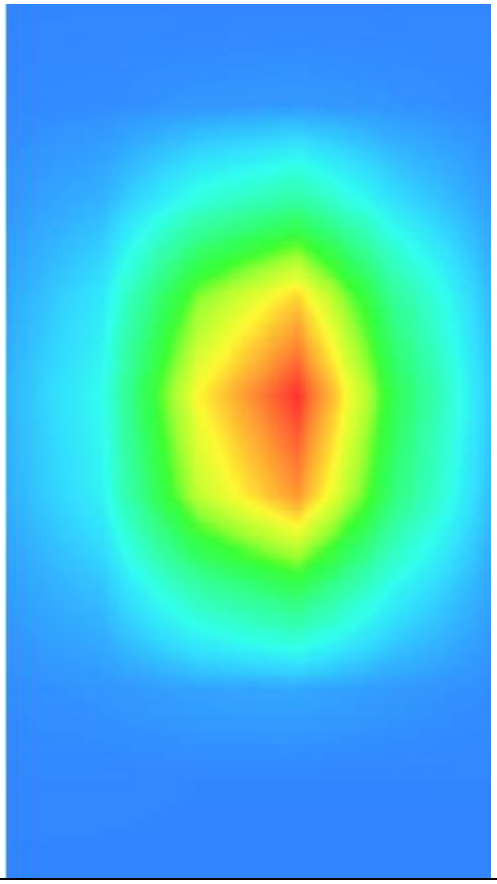
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=2.00
SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	2.083452
SAR 1g (W/Kg)	4.083361

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.3211	4.0432	2.2653	1.3077	0.7635	0.4533	0.2735



3D screen shot	Hot spot position
	

MEASUREMENT 8

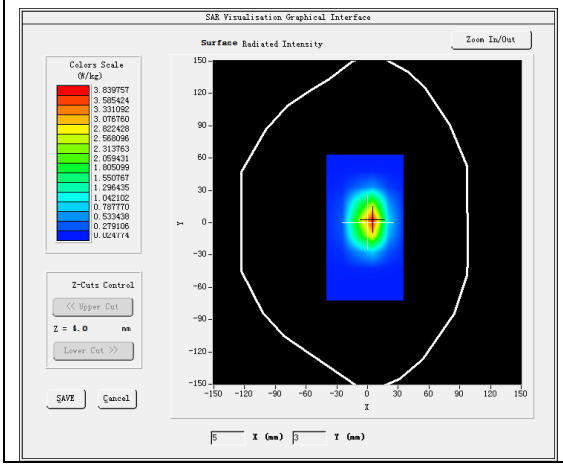
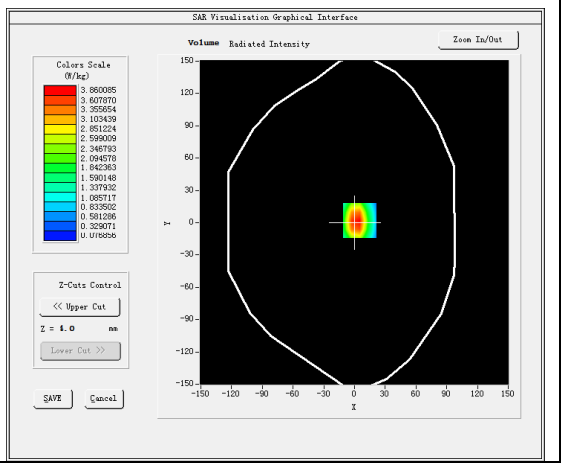
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

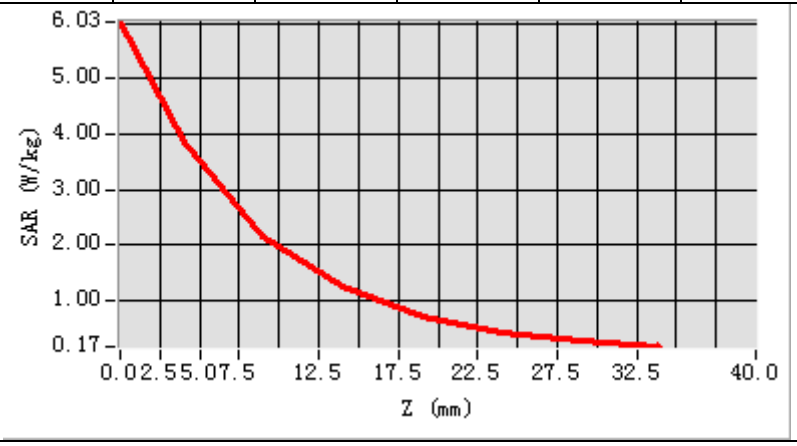
Frequency (MHz)	1900.000000
Relative permittivity (real part)	54.310335
Relative permittivity (imaginary part)	14.461803
Conductivity (S/m)	1.530066
Variation (%)	0.120000

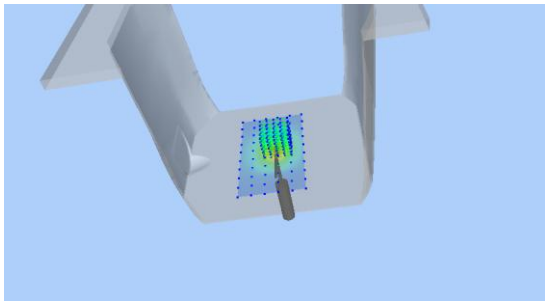
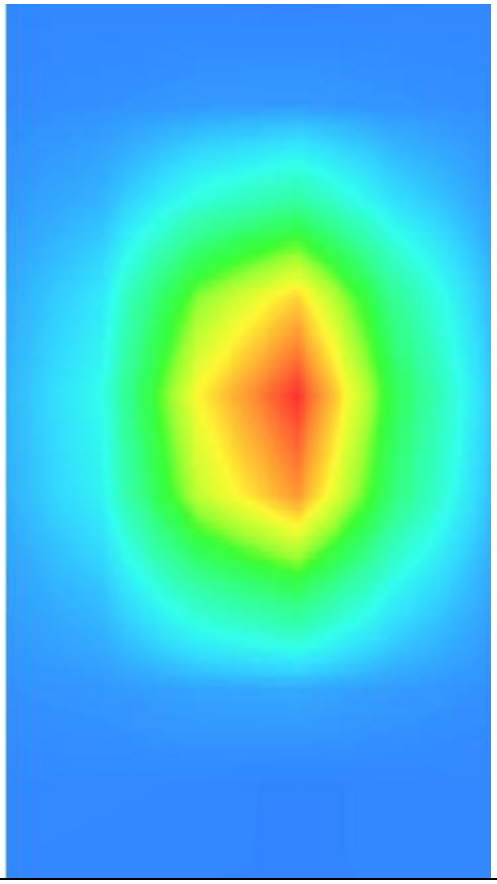
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=2.00
SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	2.056329
SAR 1g (W/Kg)	3.901402

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.0345	3.8665	2.1619	1.2445	0.7255	0.4326	0.2634



3D screen shot	Hot spot position
	

MEASUREMENT 9

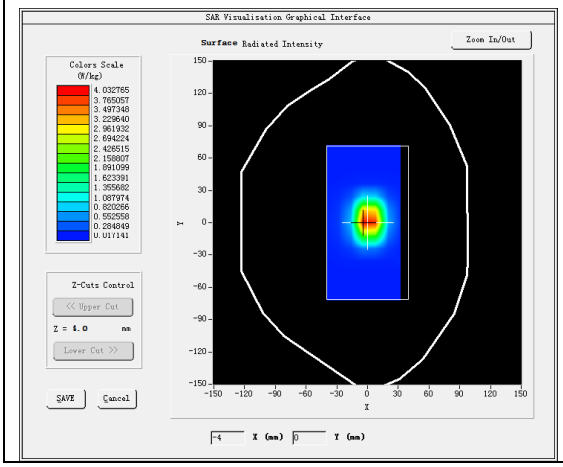
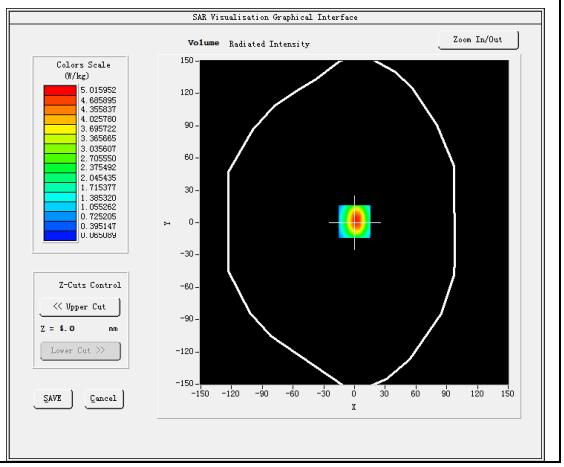
Date of measurement: 14/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

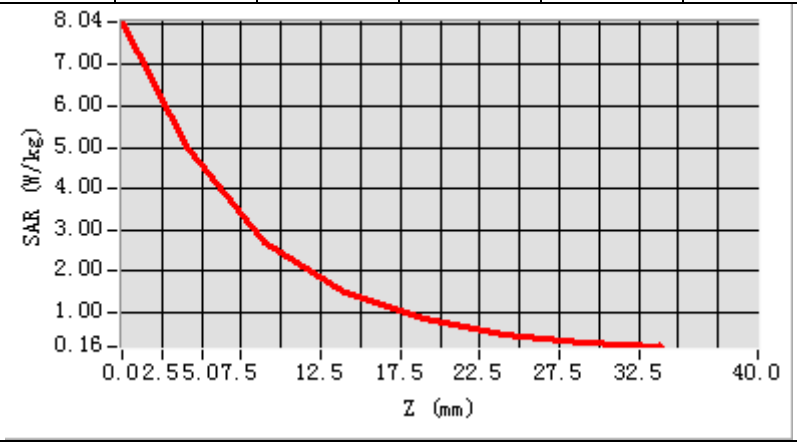
Frequency (MHz)	2450.000000
Relative permittivity (real part)	38.610321
Relative permittivity (imaginary part)	13.522631
Conductivity (S/m)	1.840463
Variation (%)	-3.350000

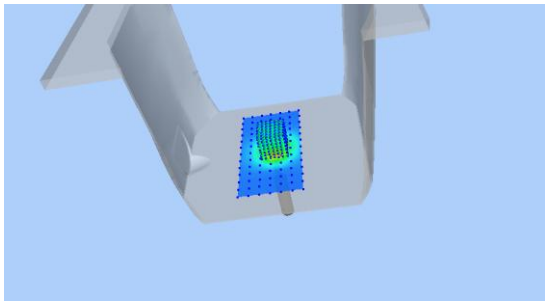
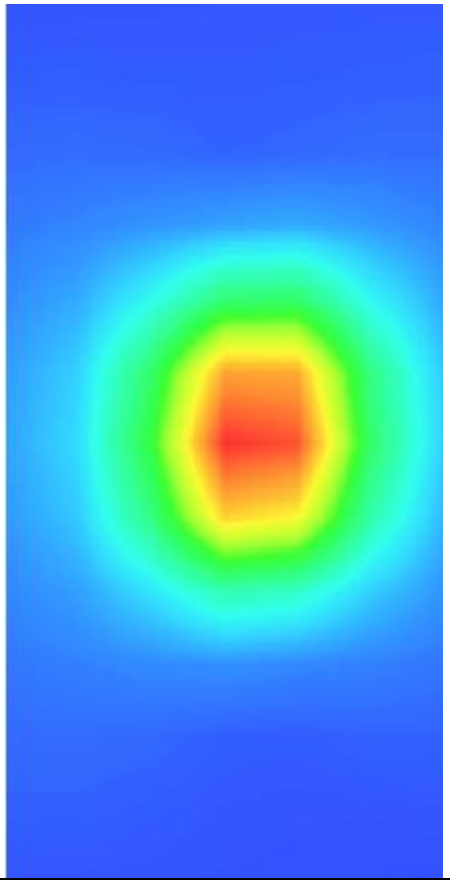
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=1.00
SAR Peak: 8.14 W/kg

SAR 10g (W/Kg)	2.488175
SAR 1g (W/Kg)	5.330435

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.0302	5.0113	2.6947	1.4868	0.8390	0.4693	0.2643



3D screen shot	Hot spot position
	

MEASUREMENT 10

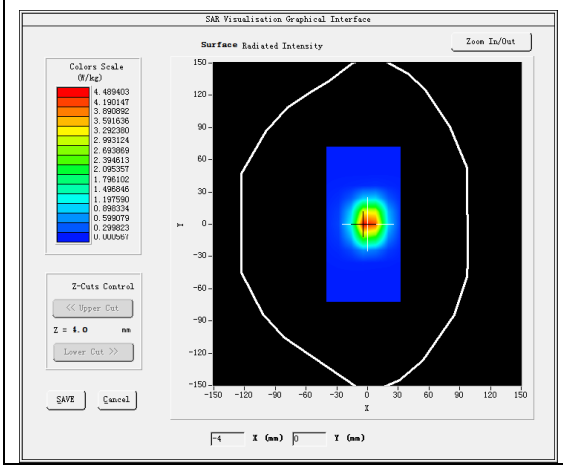
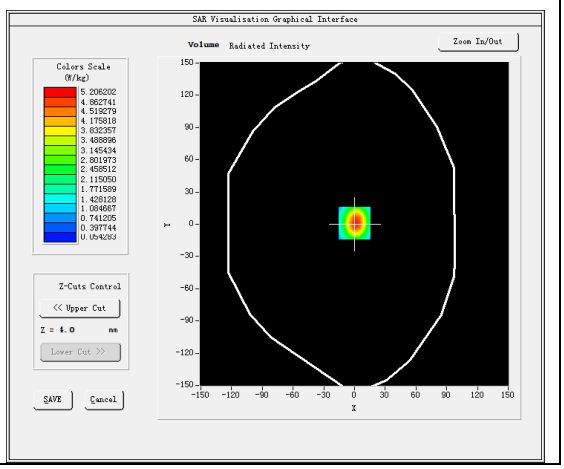
Date of measurement: 15/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

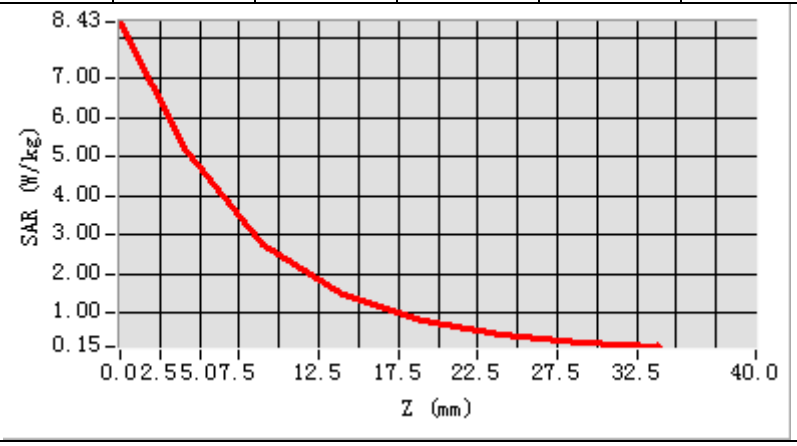
Frequency (MHz)	2450.000000
Relative permittivity (real part)	51.591697
Relative permittivity (imaginary part)	13.833566
Conductivity (S/m)	1.882816
Variation (%)	0.420000

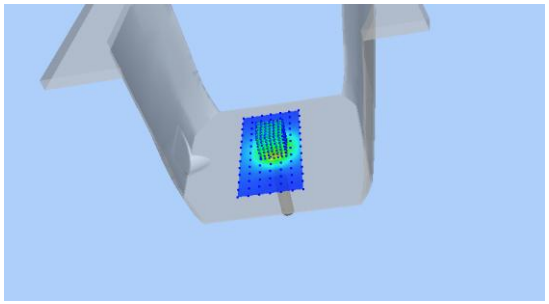
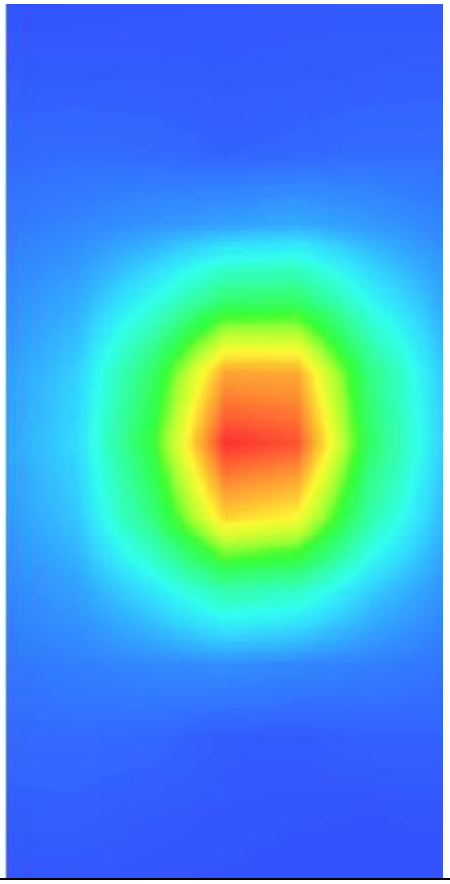
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=1.00
SAR Peak: 8.46 W/kg

SAR 10g (W/Kg)	2.477285
SAR 1g (W/Kg)	5.346270

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.4312	5.2217	2.7528	1.4235	0.8268	0.4398	0.2567



3D screen shot	Hot spot position
	

MEASUREMENT 11

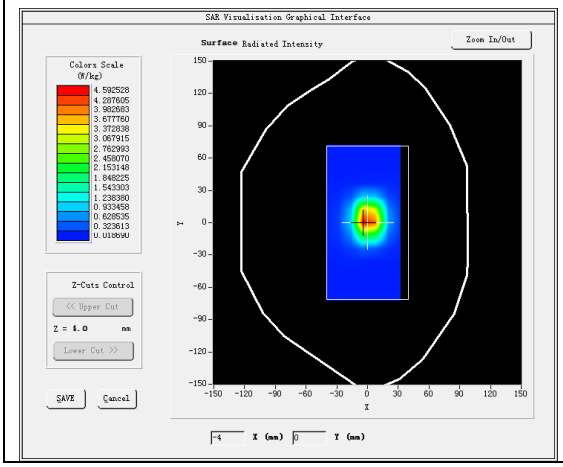
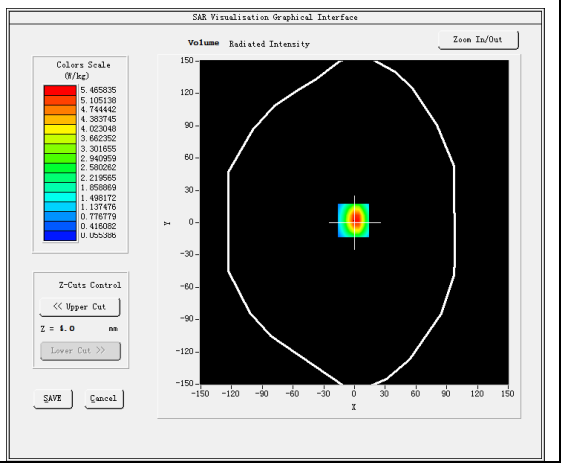
Date of measurement: 8/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

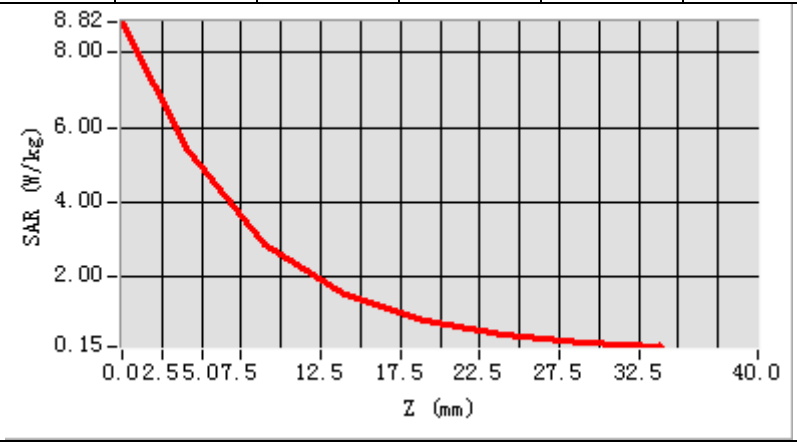
Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.162638
Relative permittivity (imaginary part)	13.983997
Conductivity (S/m)	2.023631
Variation (%)	-0.040000

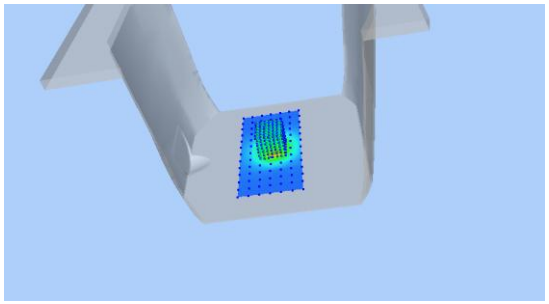
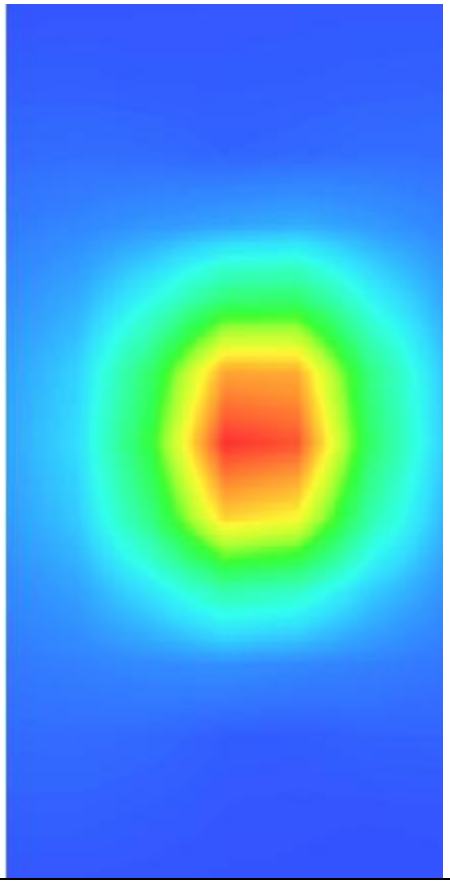
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=2.00
SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.329031
SAR 1g (W/Kg)	5.531267

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.8122	5.4610	2.8915	1.5687	0.8509	0.4754	0.2617



3D screen shot	Hot spot position
	

MEASUREMENT 12

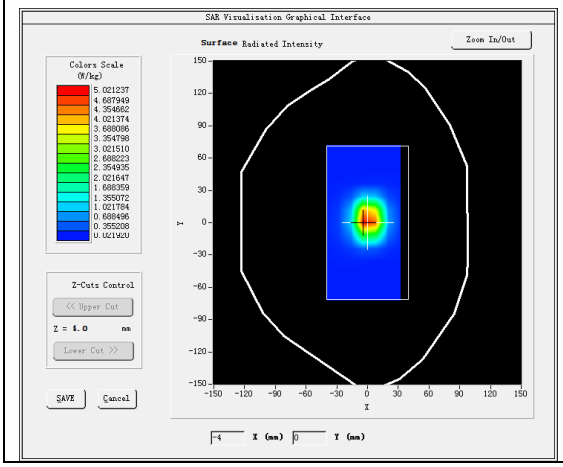
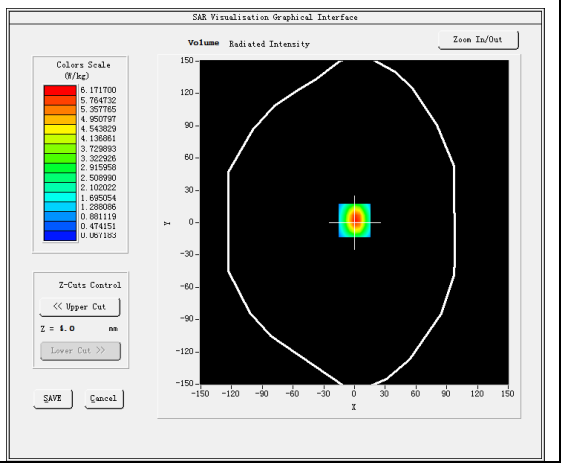
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

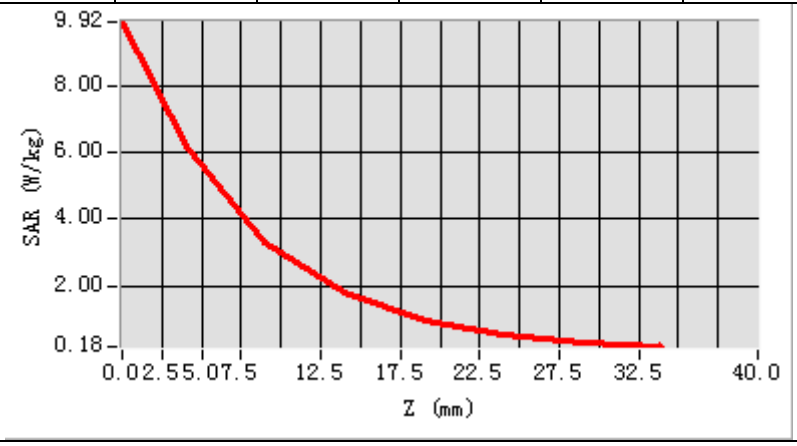
Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.860066
Relative permittivity (imaginary part)	15.330637
Conductivity (S/m)	2.213465
Variation (%)	-1.220000

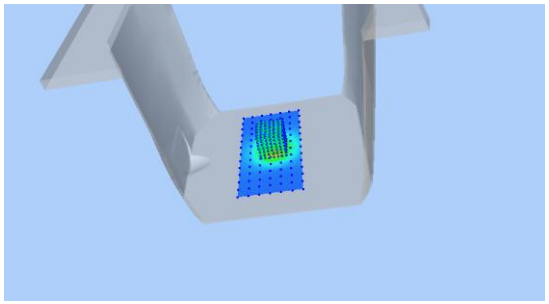
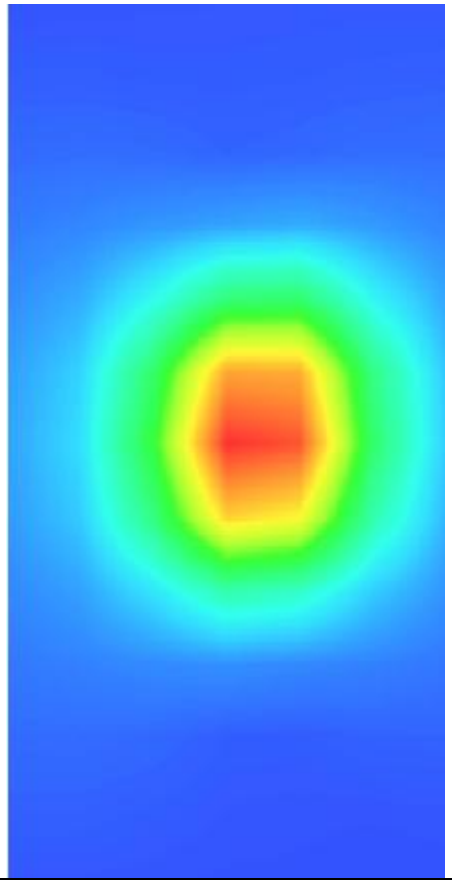
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=2.00
SAR Peak: 9.99 W/kg

SAR 10g (W/Kg)	2.334324
SAR 1g (W/Kg)	5.612188

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.9118	6.1777	3.2952	1.7819	0.9818	0.5452	0.3128



3D screen shot	Hot spot position
	

MEASUREMENT 13

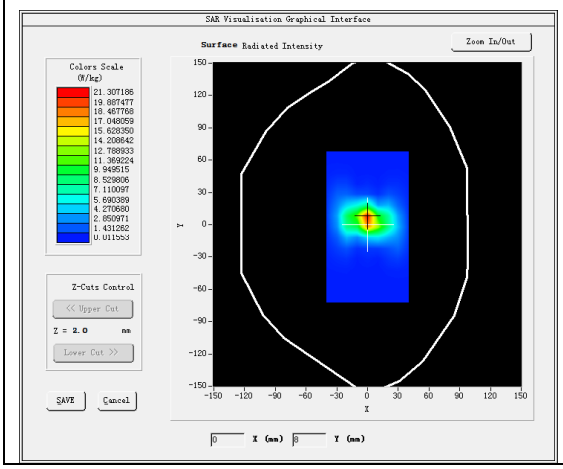
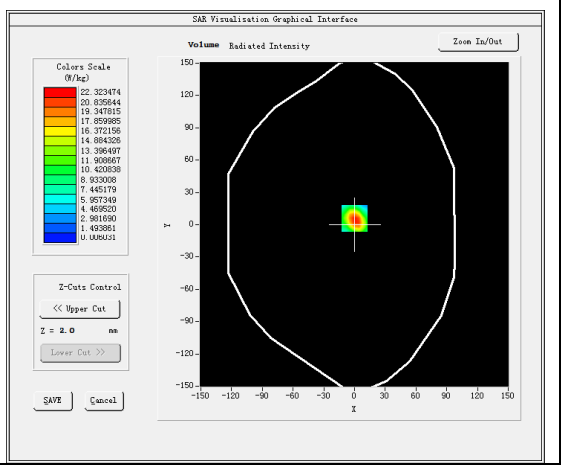
Date of measurement: 10/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

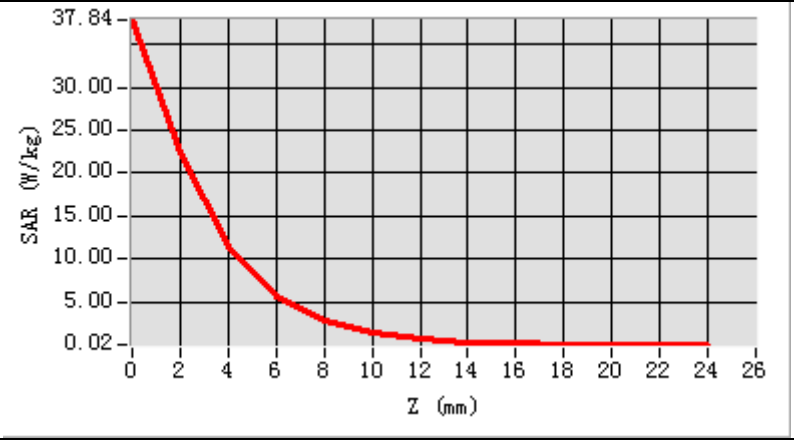
Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.699982
Relative permittivity (imaginary part)	16.051619
Conductivity (S/m)	4.637134
Variation (%)	1.660000

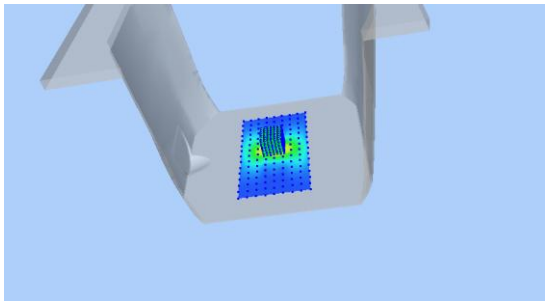
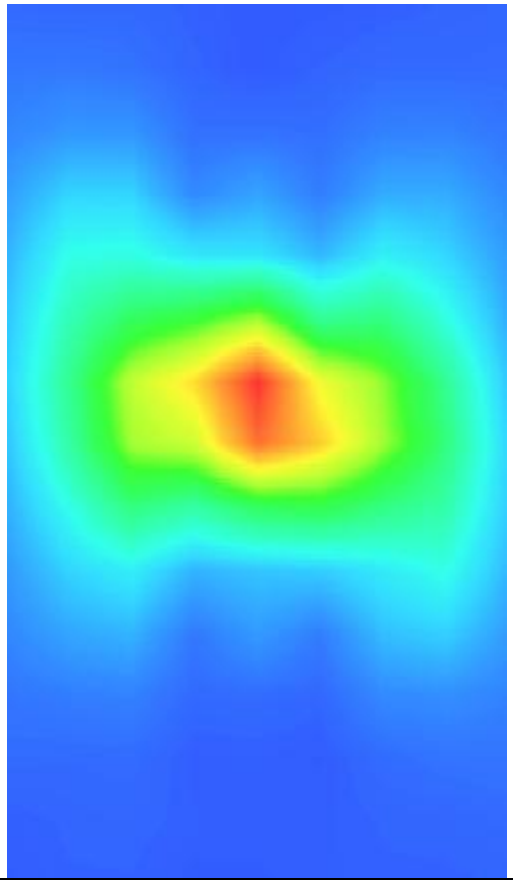
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.447495
SAR 1g (W/Kg)	15.652221

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	37.8356	22.3278	11.3730	5.6618	2.8255	1.4093	0.7124	0.3660	0.1808	0.1012	0.0513	0.0323



3D screen shot	Hot spot position
	

MEASUREMENT 14

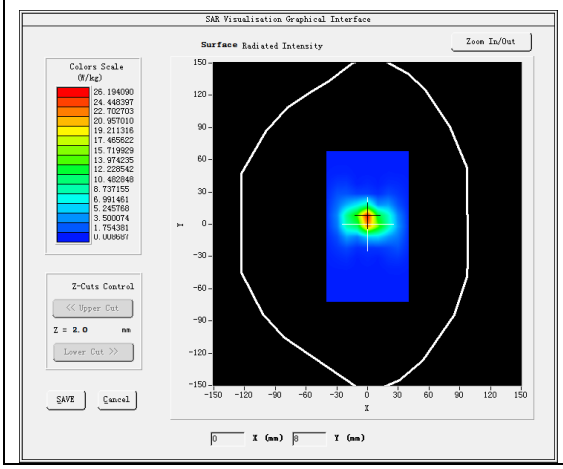
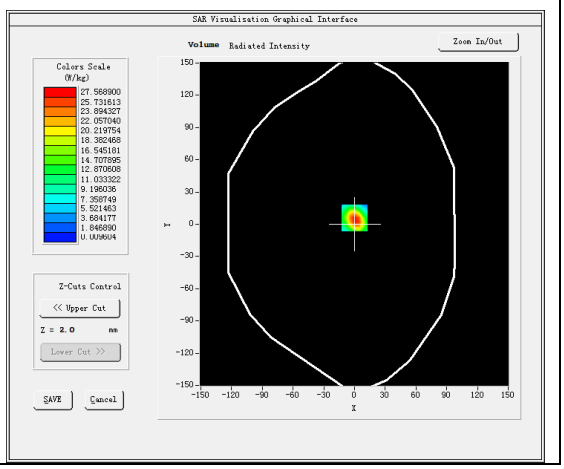
Date of measurement: 13/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

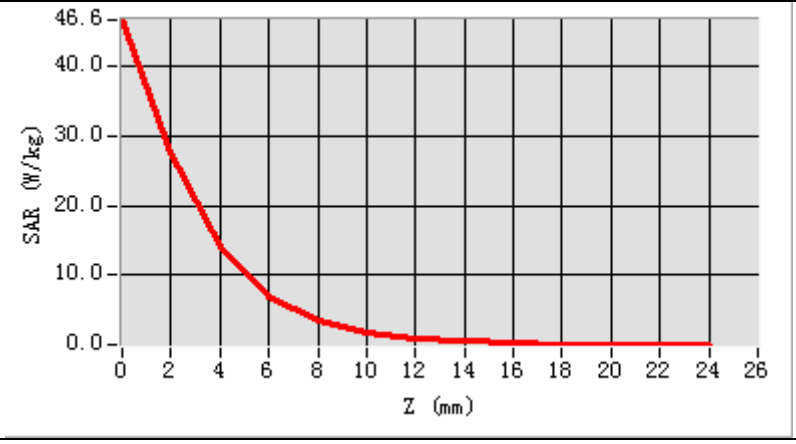
Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.700639
Relative permittivity (imaginary part)	18.180510
Conductivity (S/m)	5.254258
Variation (%)	4.490000

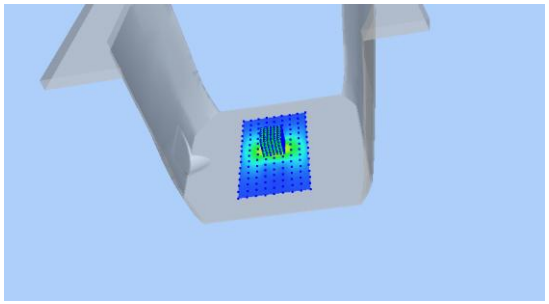
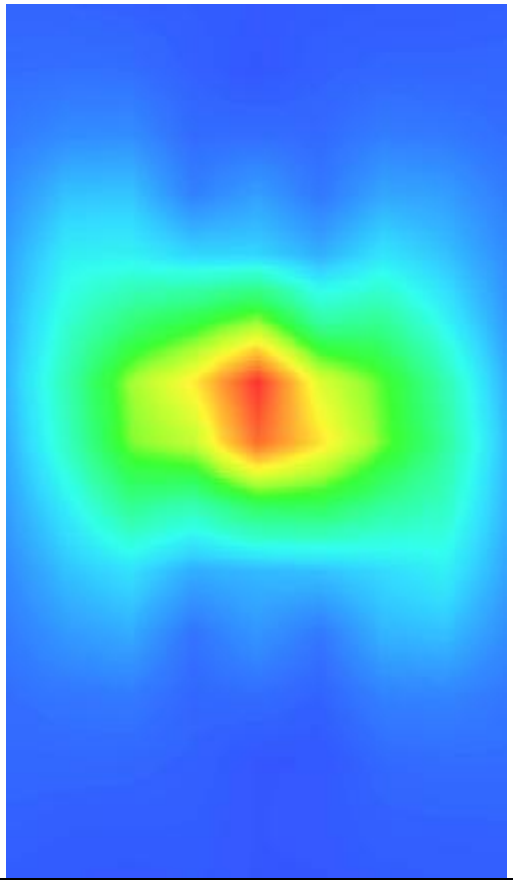
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 49.61 W/kg

SAR 10g (W/Kg)	5.657184
SAR 1g (W/Kg)	15.967246

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	46.6150	27.5644	14.0668	7.05 91	3.59 28	1.78 02	0.89 38	0.46 70	0.24 75	0.13 53	0.06 50	0.04 000



3D screen shot	Hot spot position
	

MEASUREMENT 15

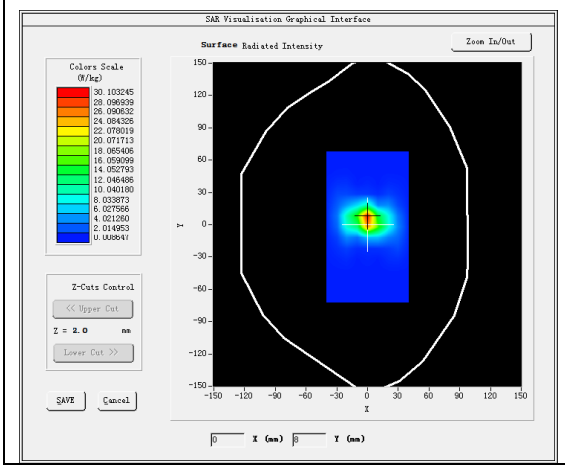
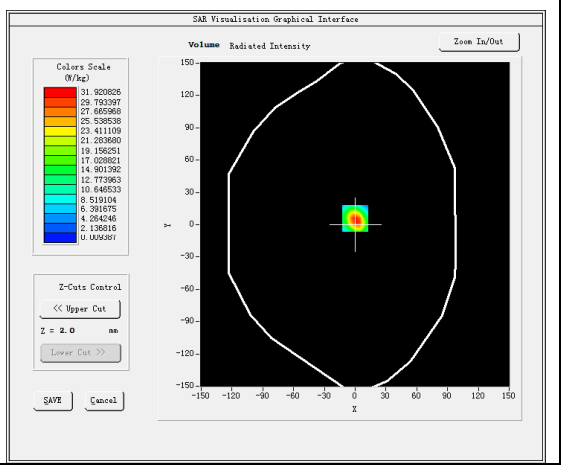
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

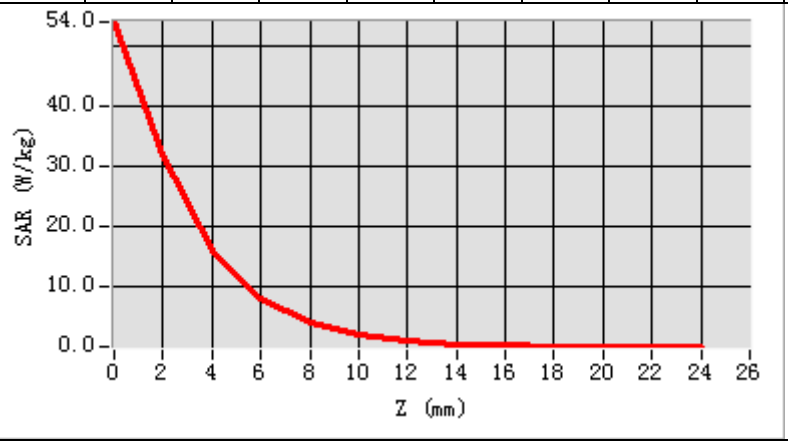
Frequency (MHz)	5800.000000
Relative permittivity (real part)	34.611512
Relative permittivity (imaginary part)	16.193082
Conductivity (S/m)	5.224981
Variation (%)	-1.880000

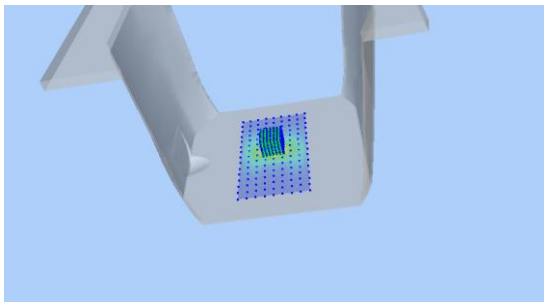
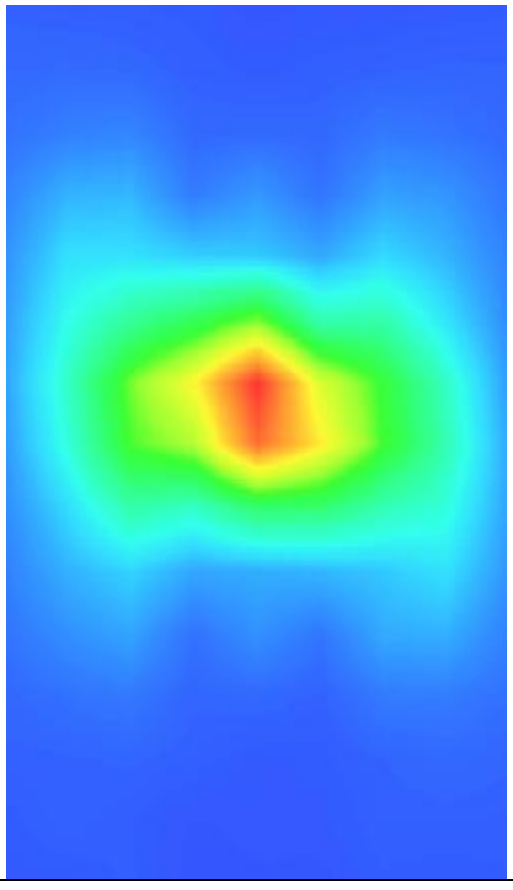
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	6.454095
SAR 1g (W/Kg)	18.786093

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	54.0311	31.9215	16.1720	8.1701	4.0884	2.0512	1.0308	0.5181	0.2750	0.1553	0.0740	0.0439



3D screen shot	Hot spot position
	

MEASUREMENT 16

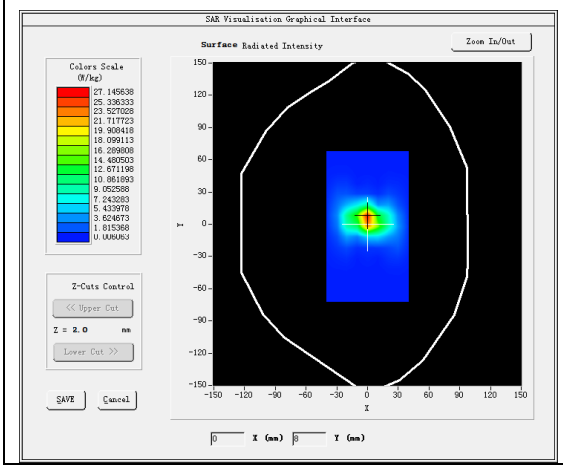
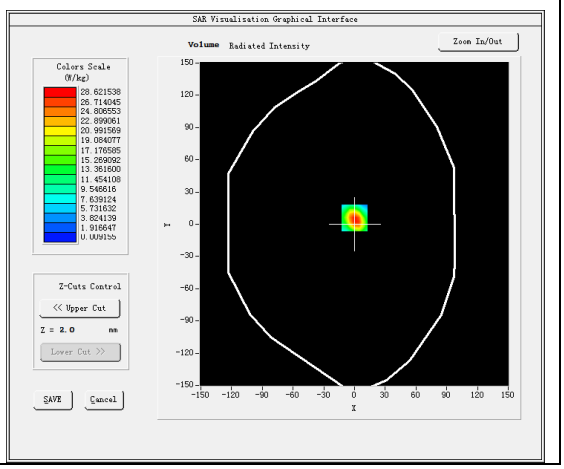
Date of measurement: 13/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

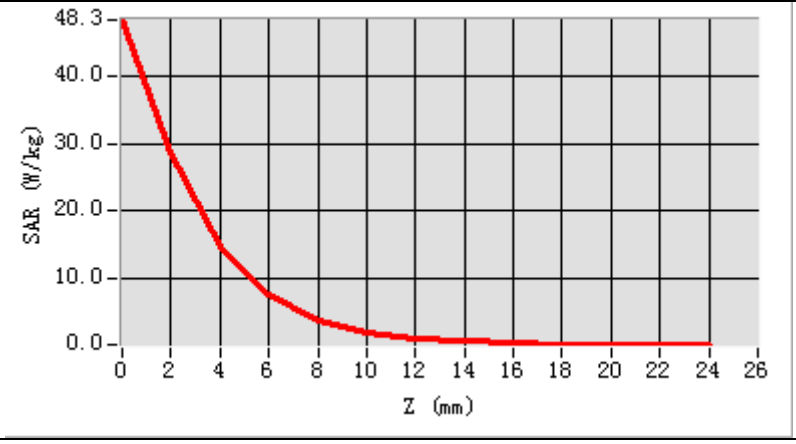
Frequency (MHz)	5800.000000
Relative permittivity (real part)	48.360523
Relative permittivity (imaginary part)	18.800143
Conductivity (S/m)	6.061524
Variation (%)	1.340000

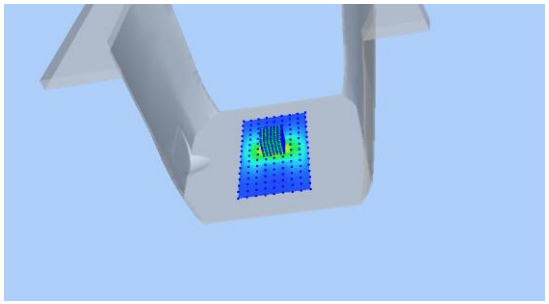
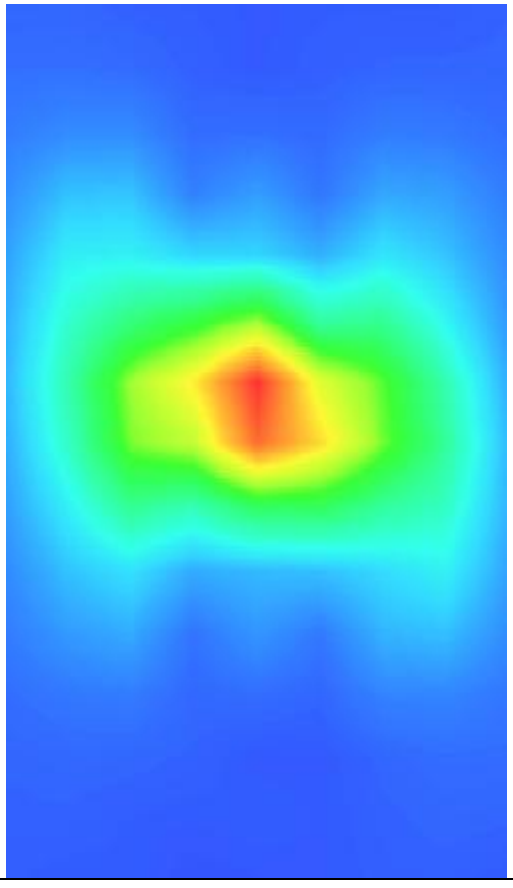
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 51.30 W/kg

SAR 10g (W/Kg)	5.743184
SAR 1g (W/Kg)	16.681052

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	48.3472	28.6209	14.6589	7.4039	3.6857	1.8335	0.9318	0.4760	0.2513	0.1308	0.0783	0.0522



3D screen shot	Hot spot position
	

MEASUREMENT 17

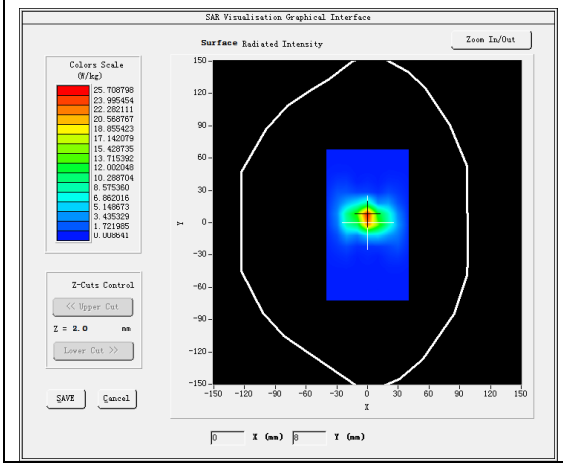
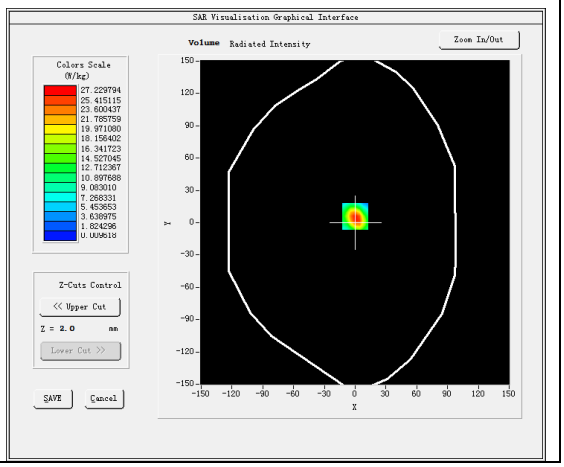
Date of measurement: 10/11/2020

A. Experimental conditions.

Area Scan	dx=10mm dy=10mm, h= 2.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

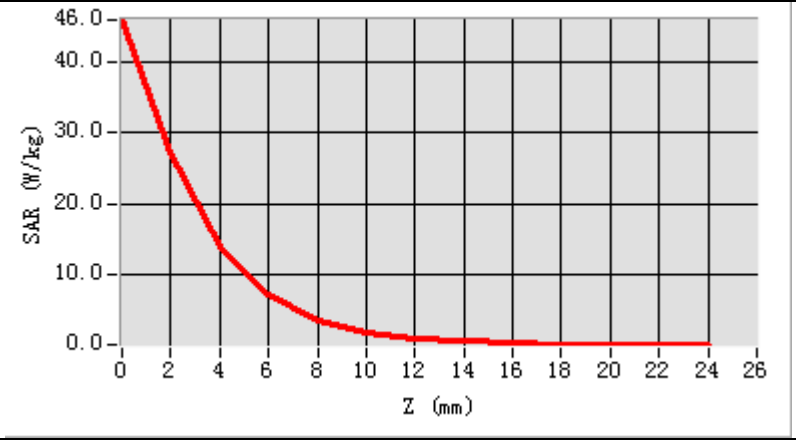
Frequency (MHz)	5400.000000
Relative permittivity (real part)	35.548450
Relative permittivity (imaginary part)	16.355500
Conductivity (S/m)	4.914271
Variation (%)	-0.590000

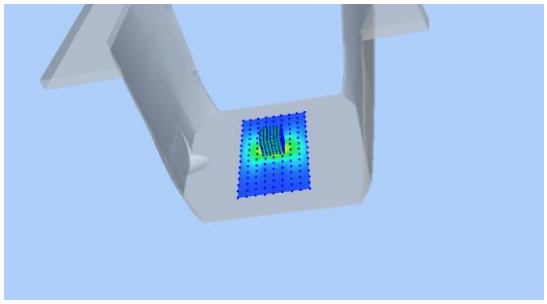
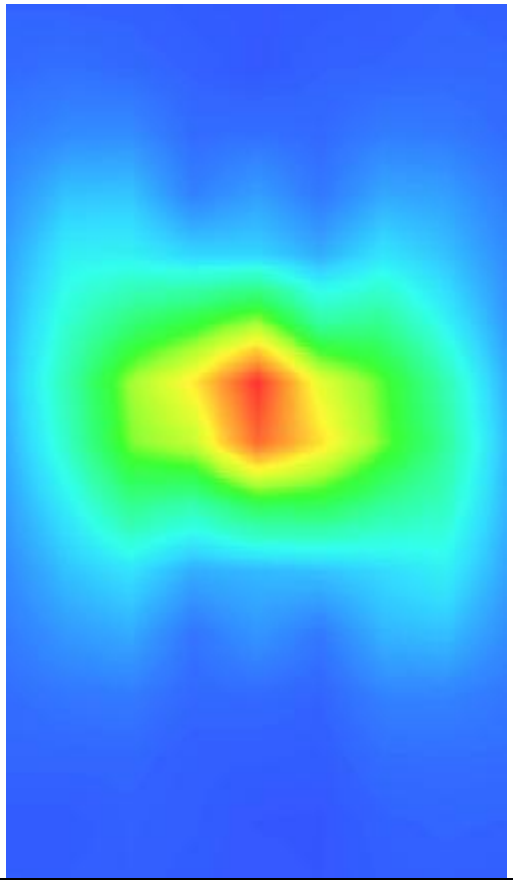
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 48.83 W/kg

SAR 10g (W/Kg)	5.851265
SAR 1g (W/Kg)	16.453777

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	45.9889	27.2297	13.8532	7.0291	3.5634	1.7857	0.9065	0.4570	0.2465	0.1326	0.0691	0.0501



3D screen shot	Hot spot position
	

MEASUREMENT 18

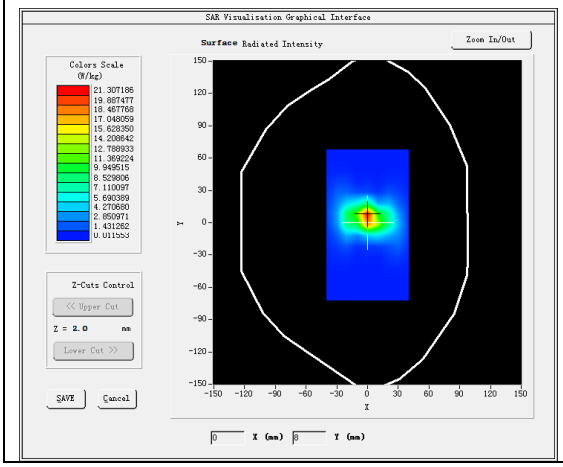
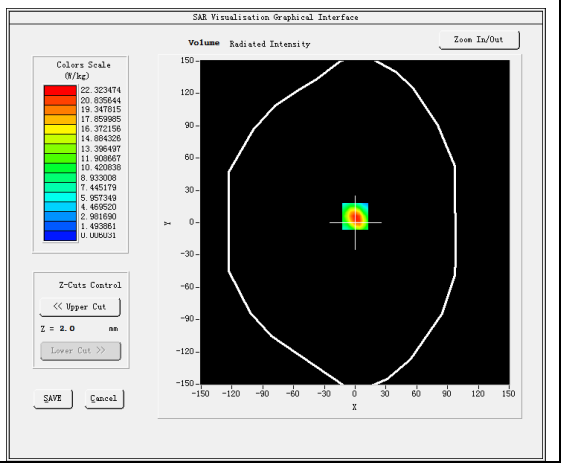
Date of measurement: 6/11/2020

A. Experimental conditions.

Area Scan	dx=10mm dy=10mm, h= 2.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

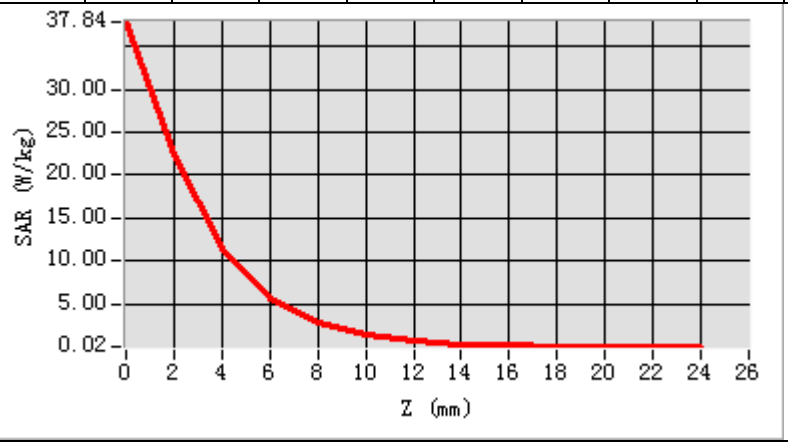
Frequency (MHz)	5400.000000
Relative permittivity (real part)	49.584006
Relative permittivity (imaginary part)	18.296390
Conductivity (S/m)	5.494270
Variation (%)	-0.070000

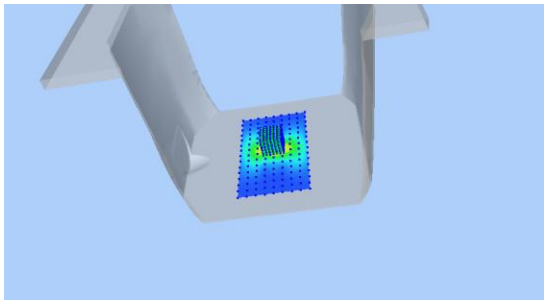
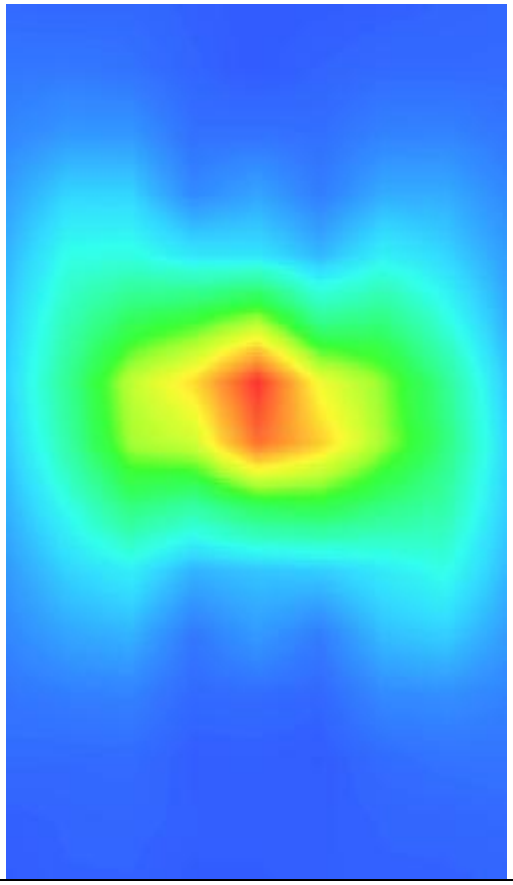
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.812868
SAR 1g (W/Kg)	16.912320

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	37.8359	22.3235	11.3794	5.6683	2.8231	1.4096	0.7133	0.3650	0.1859	0.1011	0.0542	0.0317



3D screen shot	Hot spot position
	

MEASUREMENT 19

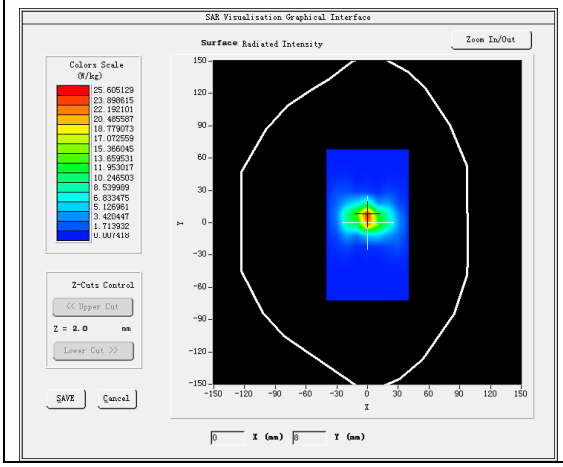
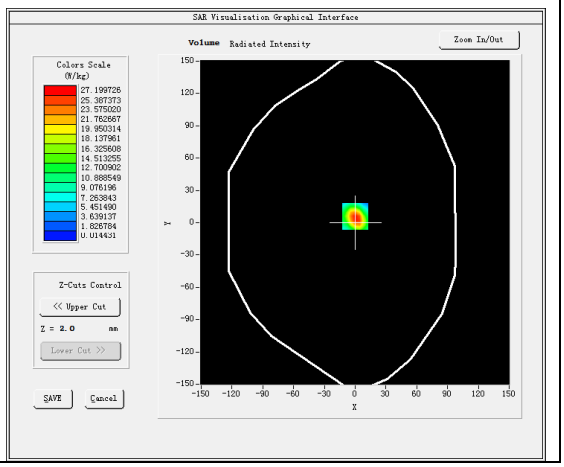
Date of measurement: 11/11/2020

A. Experimental conditions.

Area Scan	dx=10mm dy=10mm, h= 2.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

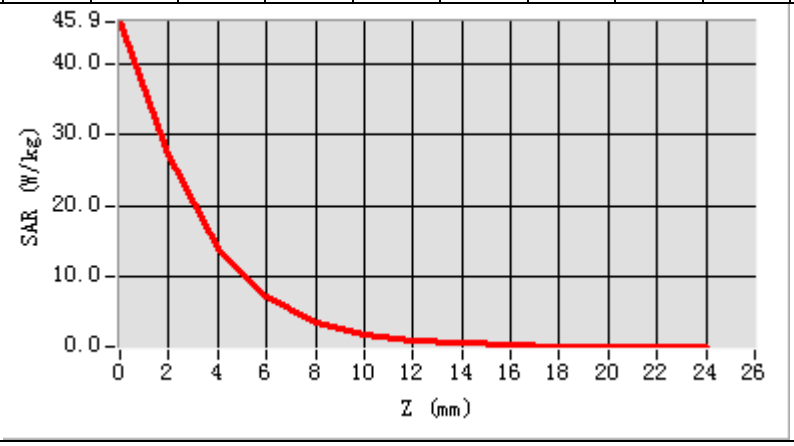
Frequency (MHz)	5600.000000
Relative permittivity (real part)	35.681981
Relative permittivity (imaginary part)	16.279619
Conductivity (S/m)	5.064271
Variation (%)	-0.390000

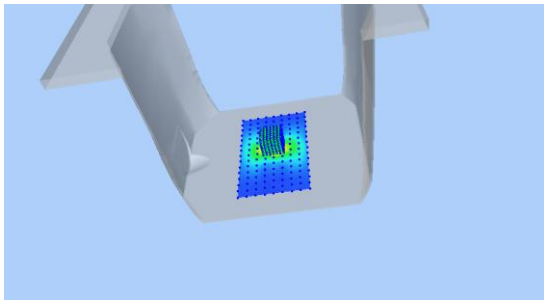
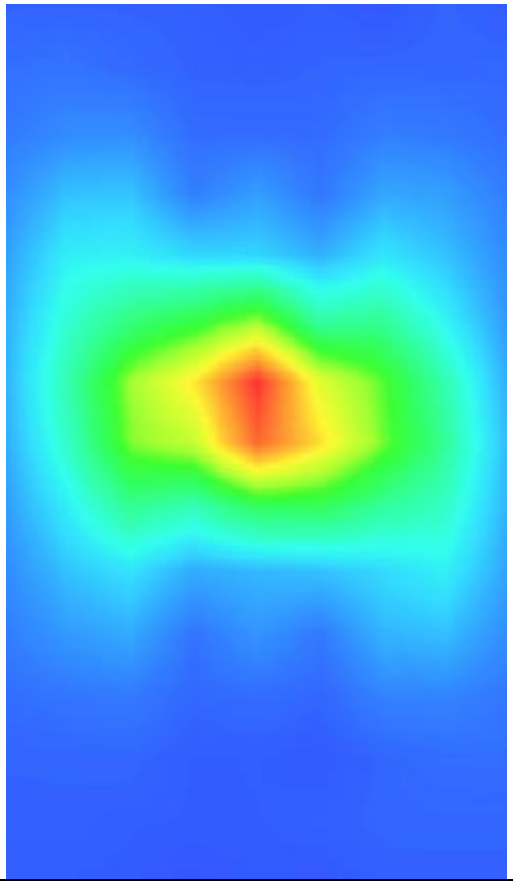
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 48.80 W/kg

SAR 10g (W/Kg)	5.944386
SAR 1g (W/Kg)	16.910446

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	45.9384	27.1998	13.8580	7.0287	3.5472	1.7735	0.9053	0.4637	0.2454	0.1313	0.0783	0.0461



3D screen shot	Hot spot position
	

MEASUREMENT 20

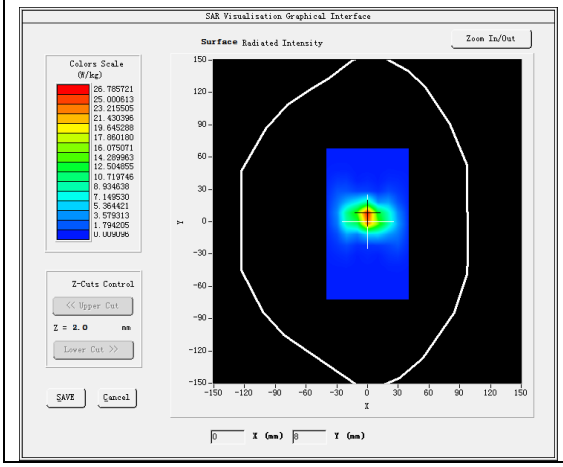
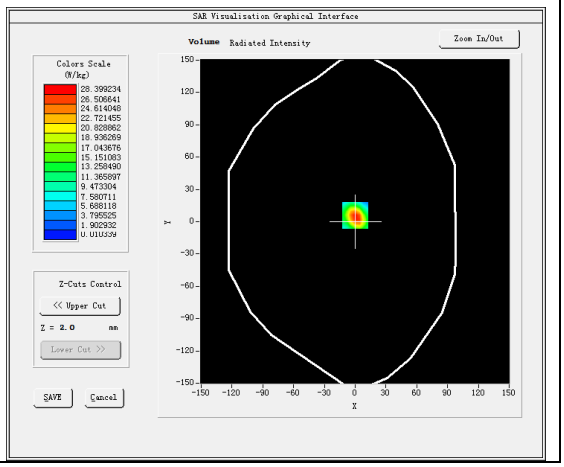
Date of measurement: 6/11/2020

A. Experimental conditions.

Area Scan	dx=10mm dy=10mm, h= 2.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

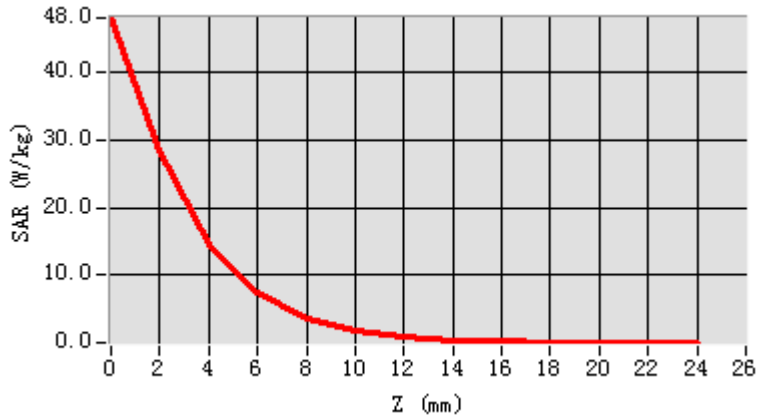
Frequency (MHz)	5600.000000
Relative permittivity (real part)	49.909537
Relative permittivity (imaginary part)	18.225509
Conductivity (S/m)	5.674270
Variation (%)	-0.040000

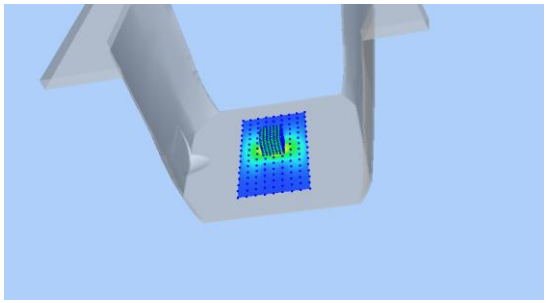
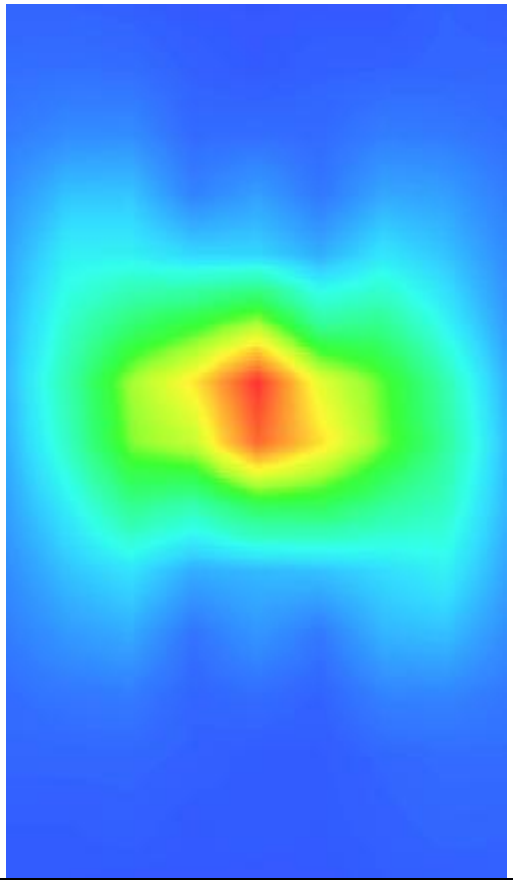
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=6.00
SAR Peak: 50.97 W/kg

SAR 10g (W/Kg)	5.782329
SAR 1g (W/Kg)	16.656125

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	48.0320	28.3990	14.4533	7.2935	3.6498	1.8204	0.9246	0.4666	0.2496	0.1343	0.0728	0.0495



3D screen shot	Hot spot position
	

13. Appendix C. Plots of High SAR Measurement

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MEASUREMENT 1

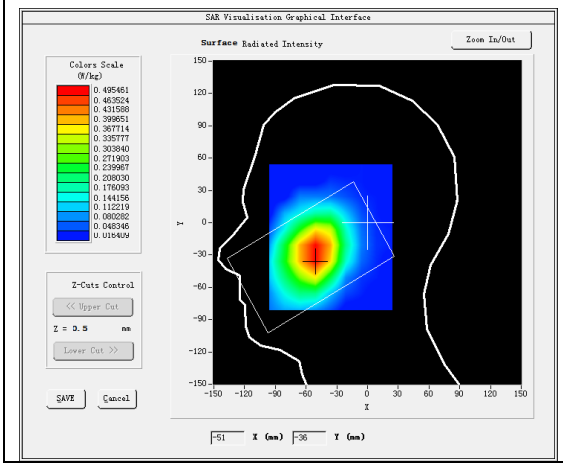
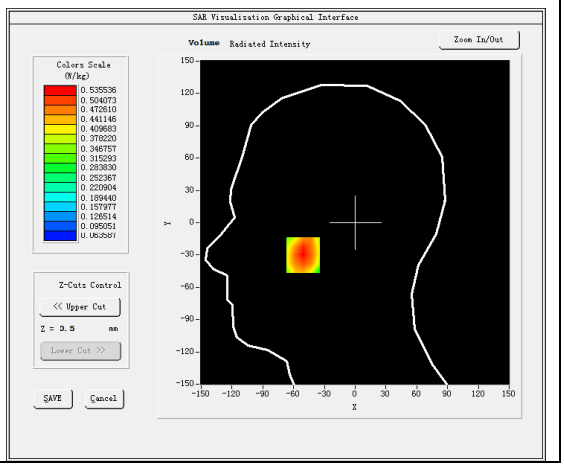
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

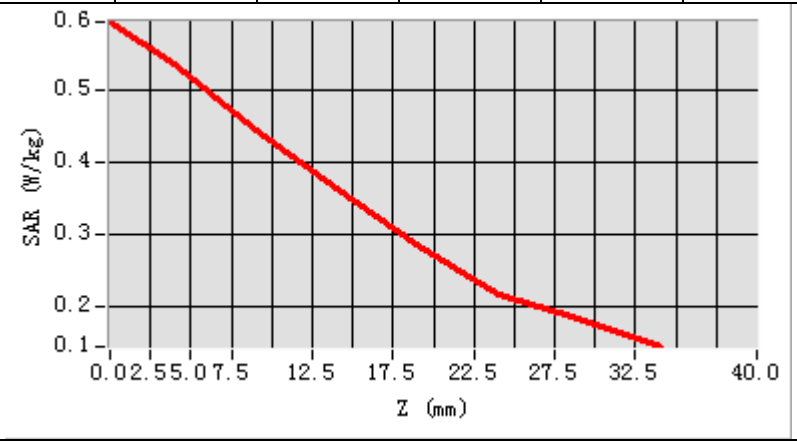
Frequency (MHz)	836.400000
Relative permittivity (real part)	40.750961
Relative permittivity (imaginary part)	19.941540
Conductivity (S/m)	0.926617
Variation (%)	2.980000

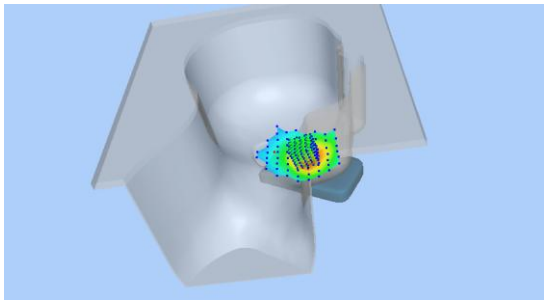
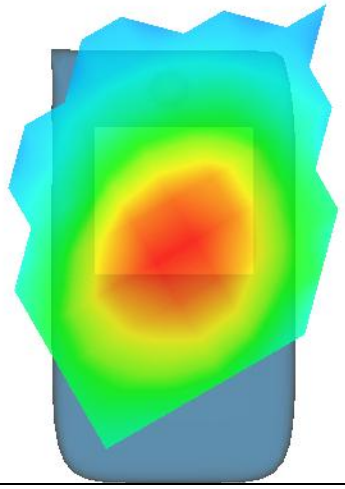
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-30.00
SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.395461
SAR 1g (W/Kg)	0.522377

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5943	0.5355	0.4450	0.3640	0.2861	0.2171	0.1818



3D screen shot	Hot spot position
	

MEASUREMENT 2

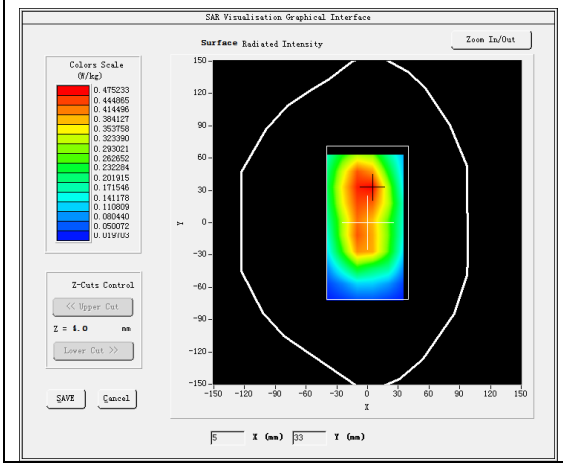
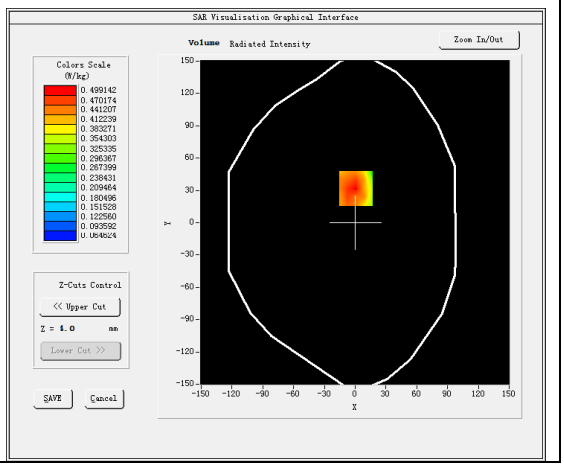
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

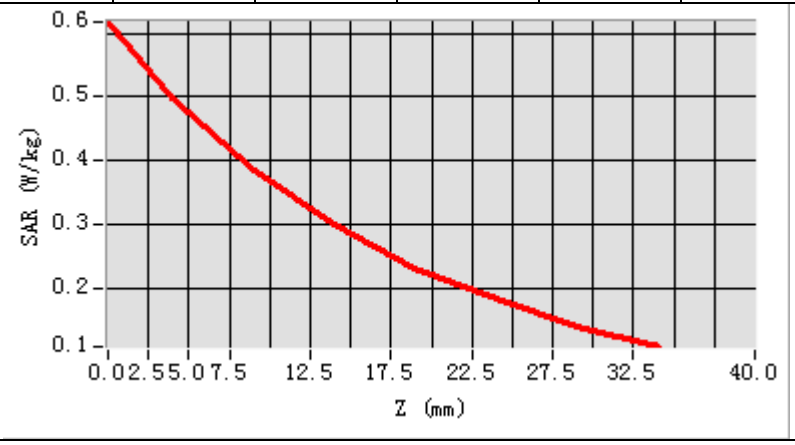
Frequency (MHz)	836.400000
Relative permittivity (real part)	54.579578
Relative permittivity (imaginary part)	21.142740
Conductivity (S/m)	0.982433
Variation (%)	0.640000

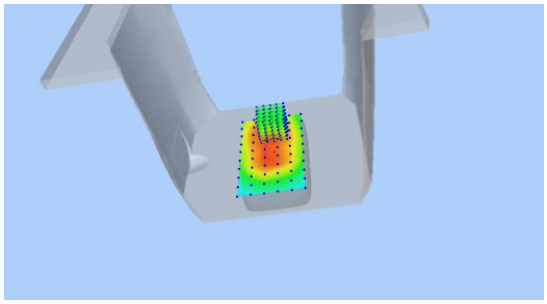
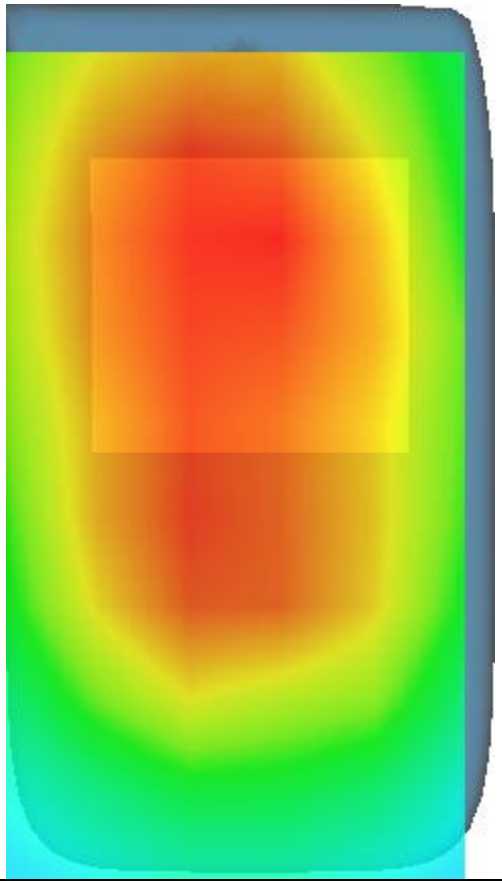
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=32.00
SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.352706
SAR 1g (W/Kg)	0.482950

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6178	0.4991	0.3840	0.2984	0.2289	0.1829	0.1383



3D screen shot	Hot spot position
	

MEASUREMENT 3

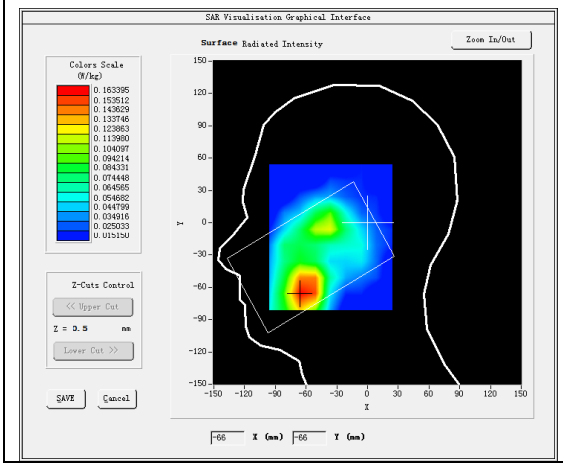
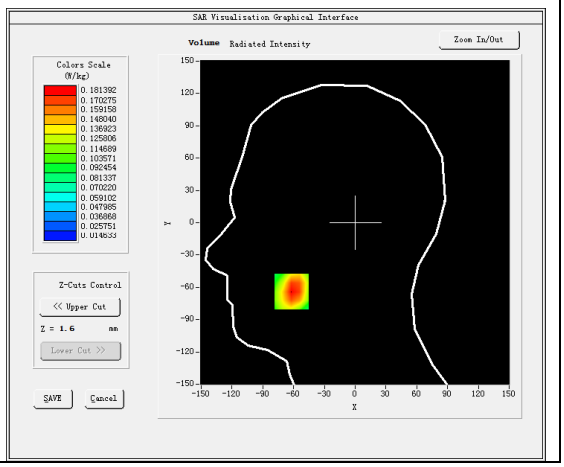
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

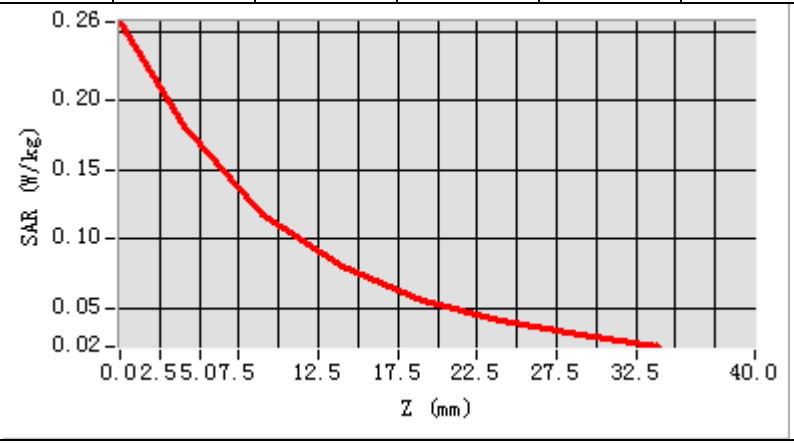
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.077000
Relative permittivity (imaginary part)	13.230200
Conductivity (S/m)	1.381821
Variation (%)	3.660000

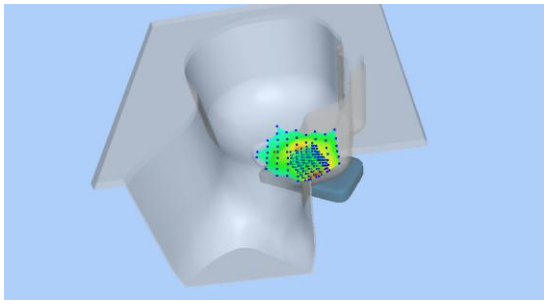
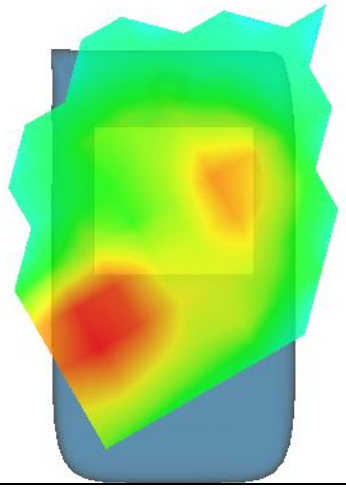
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-62.00, Y=-64.00
SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.107386
SAR 1g (W/Kg)	0.176119

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2572	0.1814	0.1178	0.0802	0.0557	0.0410	0.0305



3D screen shot	Hot spot position
	

MEASUREMENT 4

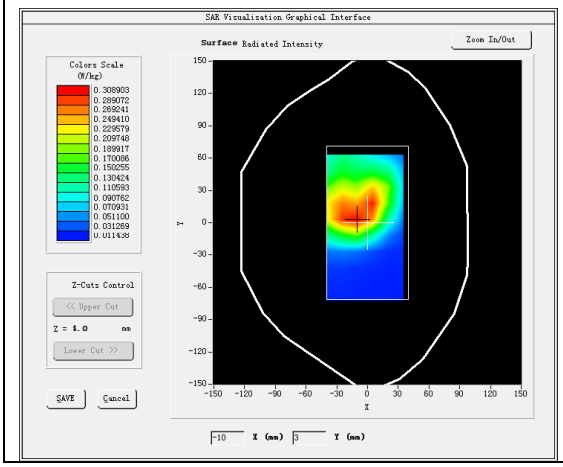
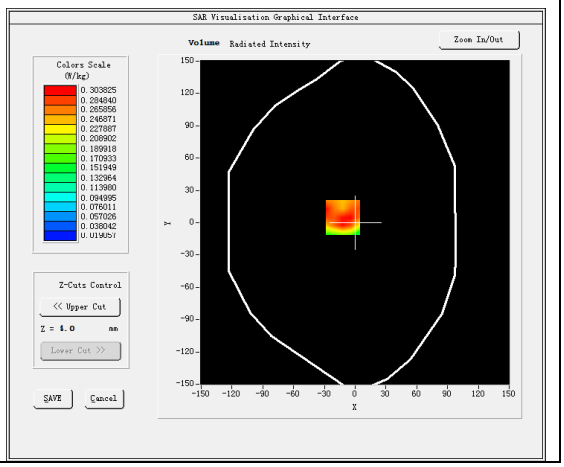
Date of measurement: 12/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

B. SAR Measurement Results

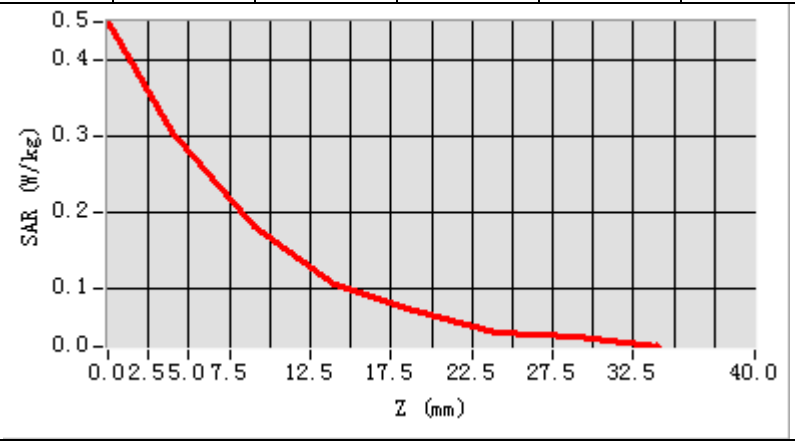
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.383900
Relative permittivity (imaginary part)	14.547700
Conductivity (S/m)	1.519426
Variation (%)	-4.260000

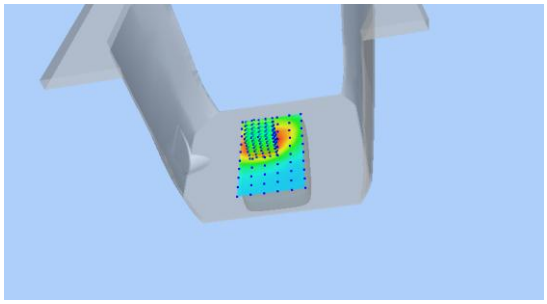
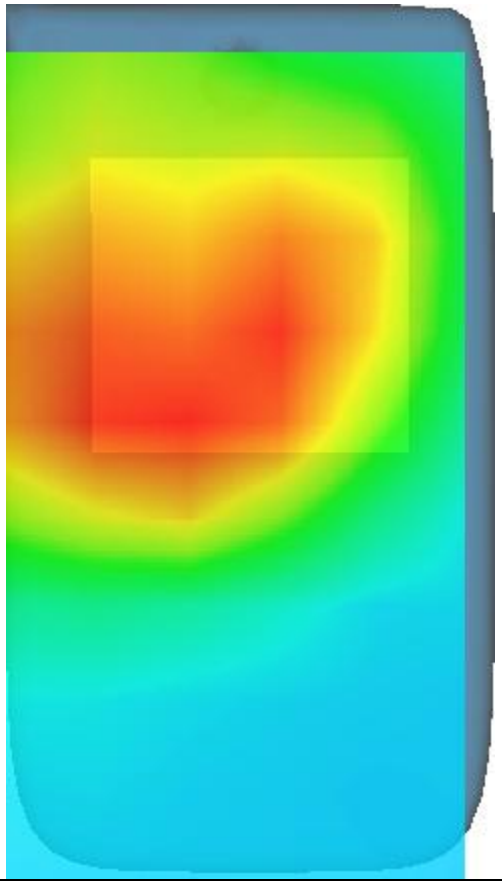
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-12.00, Y=5.00
SAR Peak: 0.50 W/kg

SAR 10g (W/Kg)	0.175010
SAR 1g (W/Kg)	0.301334

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4505	0.3038	0.1808	0.1046	0.0700	0.0406	0.0353



3D screen shot	Hot spot position
	

MEASUREMENT 5

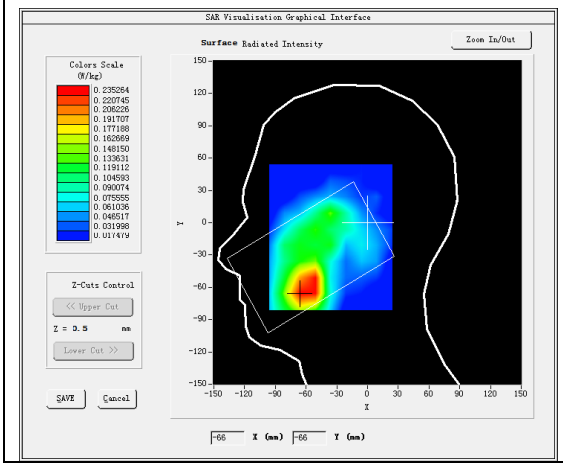
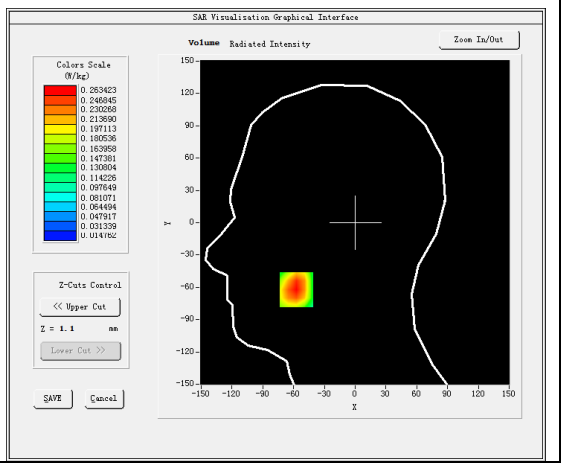
Date of measurement: 4/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band2_WCDMA1900
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

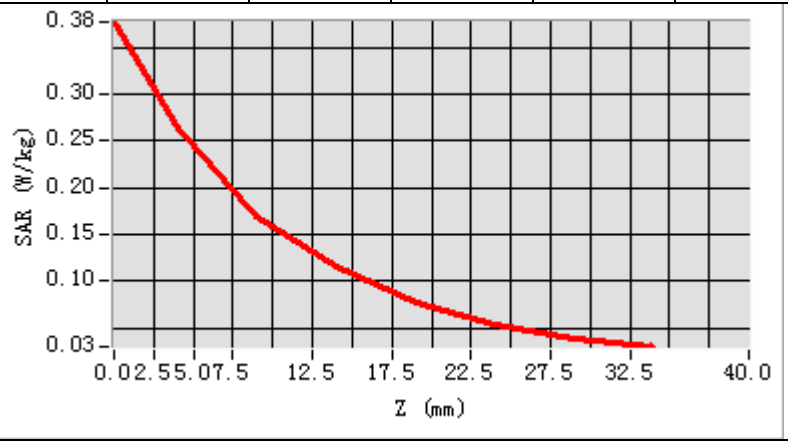
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.077000
Relative permittivity (imaginary part)	13.230200
Conductivity (S/m)	1.381821
Variation (%)	4.130000

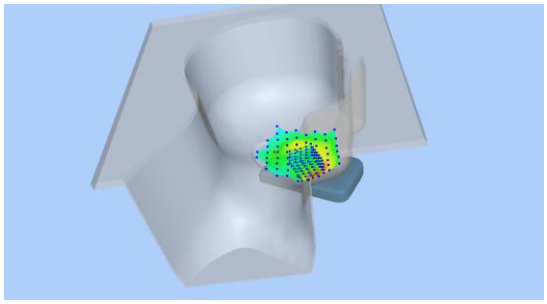
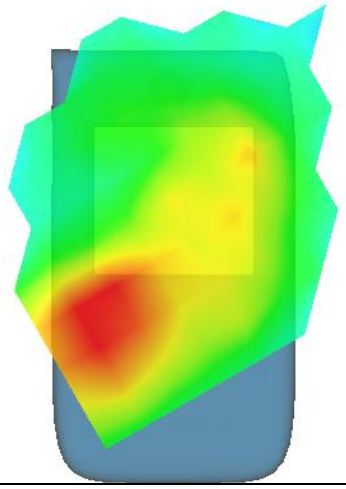
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-57.00, Y=-62.00
SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.154649
SAR 1g (W/Kg)	0.253505

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3768	0.2634	0.1697	0.1151	0.0779	0.0545	0.0388



3D screen shot	Hot spot position
	

MEASUREMENT 6

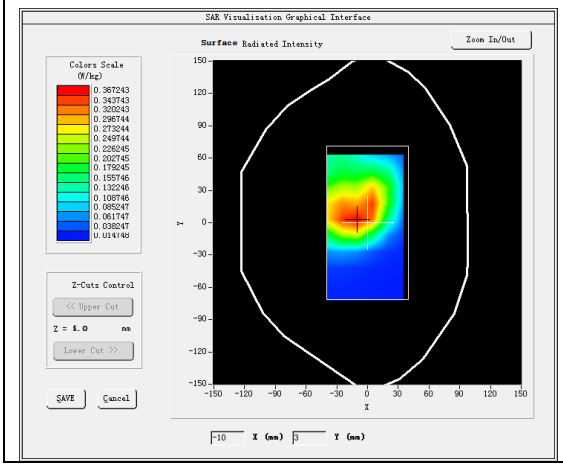
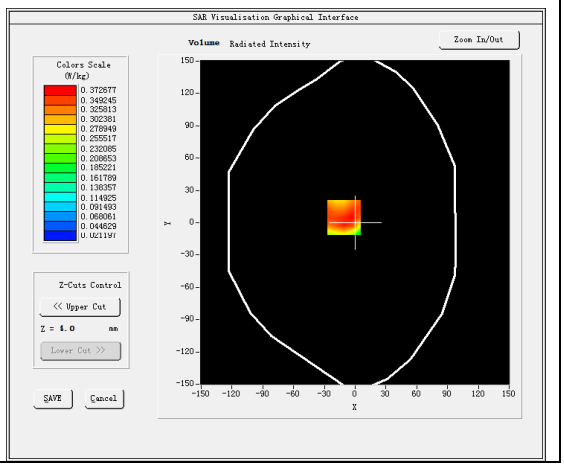
Date of measurement: 12/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	Band2_WCDMA1900
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

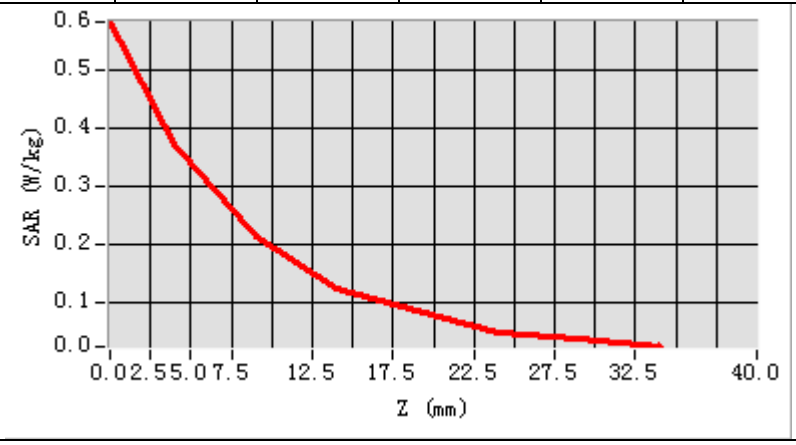
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.383900
Relative permittivity (imaginary part)	14.547700
Conductivity (S/m)	1.519426
Variation (%)	-0.640000

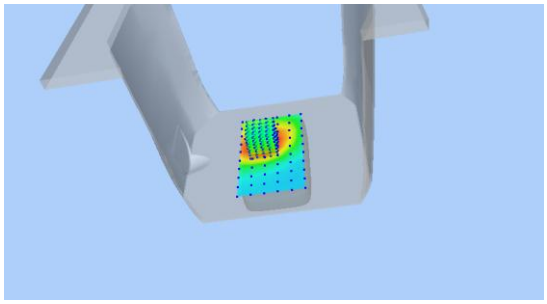
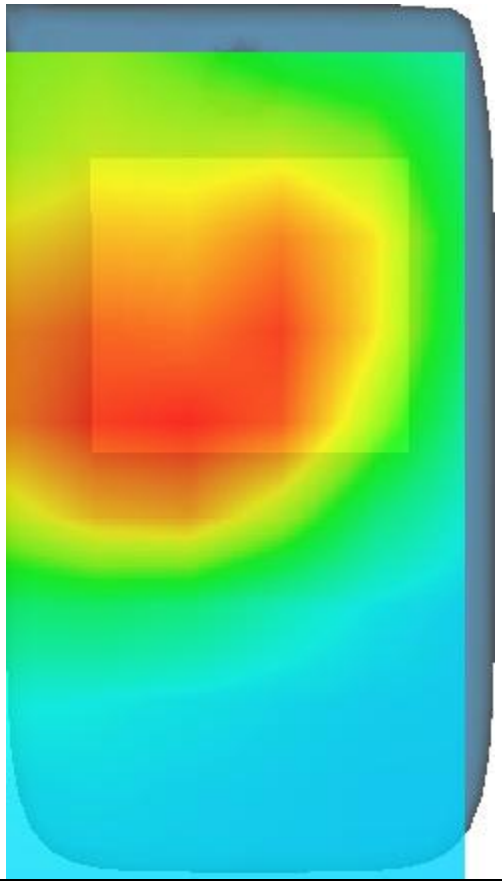
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-11.00, Y=5.00
SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.213870
SAR 1g (W/Kg)	0.362606

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5812	0.3727	0.2144	0.1246	0.0877	0.0504	0.0398



3D screen shot	Hot spot position
	

MEASUREMENT 7

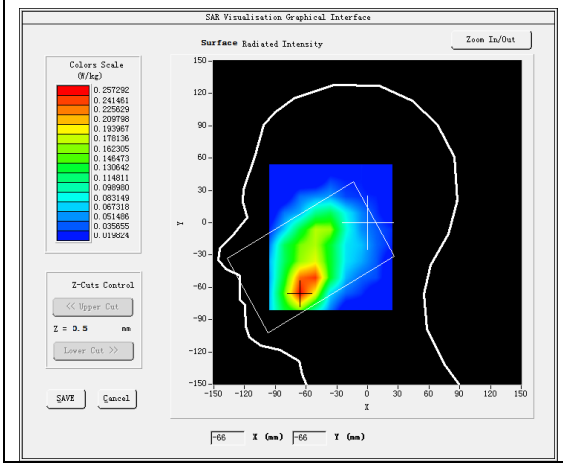
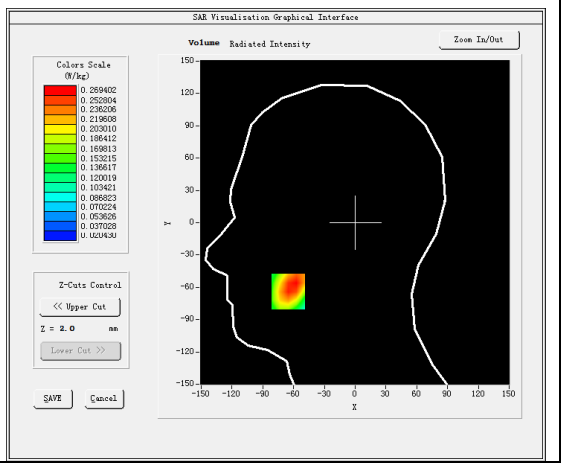
Date of measurement: 7/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band4_WCDMA1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	39.117390
Relative permittivity (imaginary part)	13.745742
Conductivity (S/m)	1.322646
Variation (%)	-1.390000

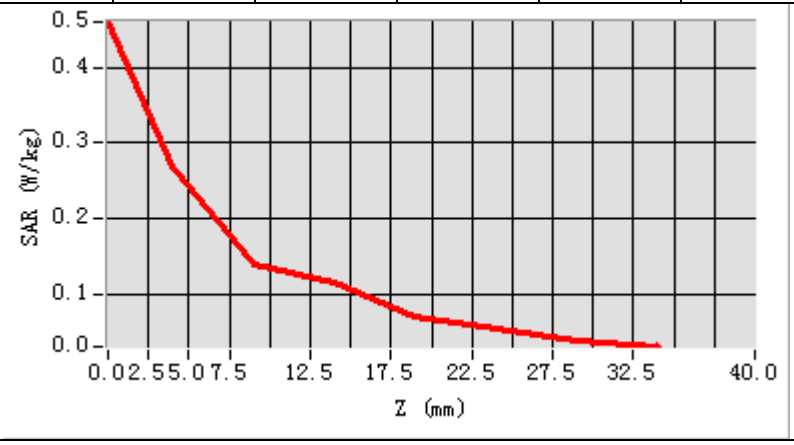
SURFACE SAR	VOLUME SAR
	

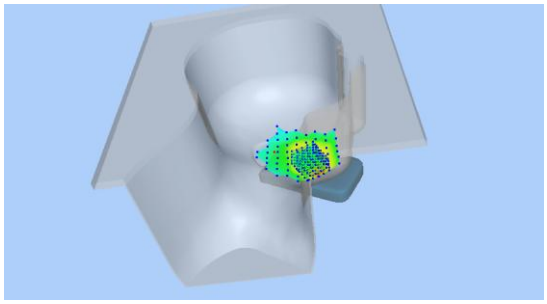
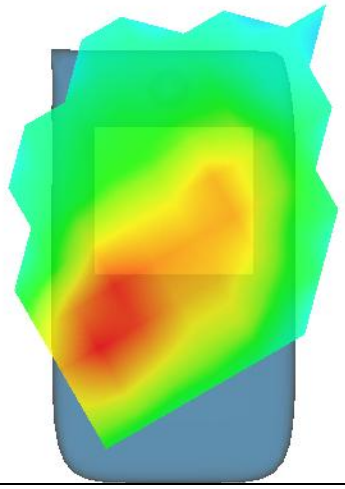
Maximum location: X=-65.00, Y=-64.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.162086
SAR 1g (W/Kg)	0.259279

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4600	0.2694	0.1389	0.1160	0.0700	0.0551	0.0385



3D screen shot	Hot spot position
	

MEASUREMENT 8

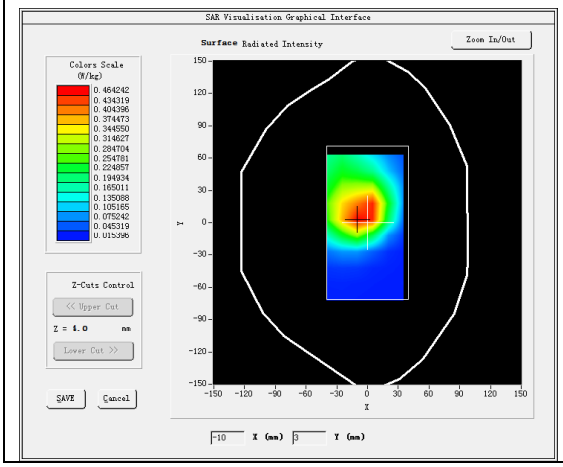
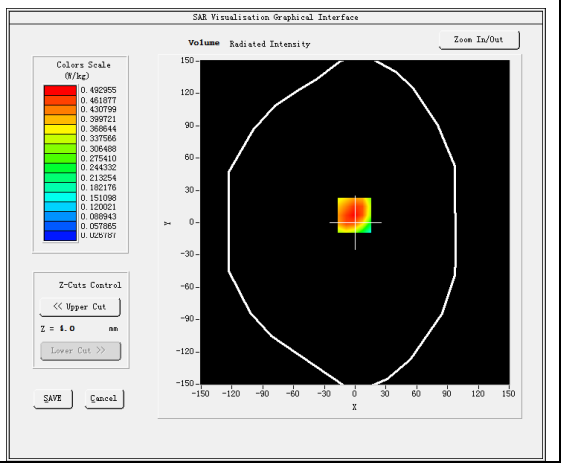
Date of measurement: 9/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	Band4_WCDMA1700
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

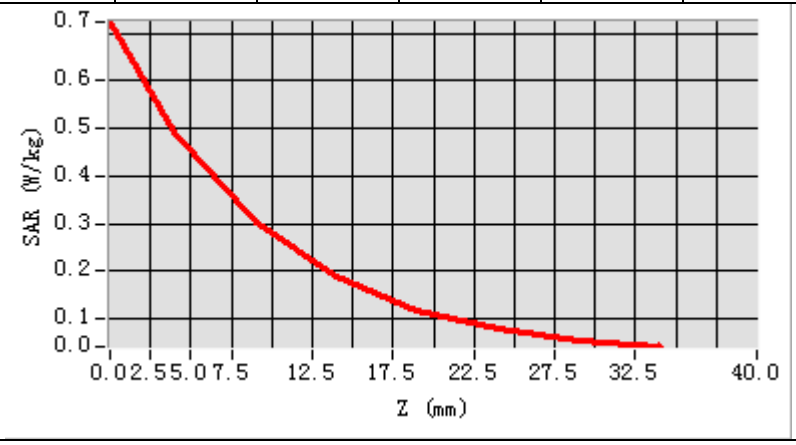
Frequency (MHz)	1732.600000
Relative permittivity (real part)	54.501167
Relative permittivity (imaginary part)	15.156370
Conductivity (S/m)	1.458380
Variation (%)	-0.200000

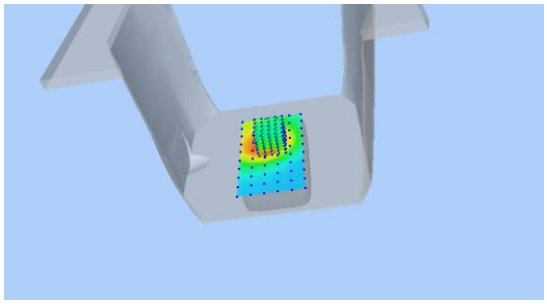
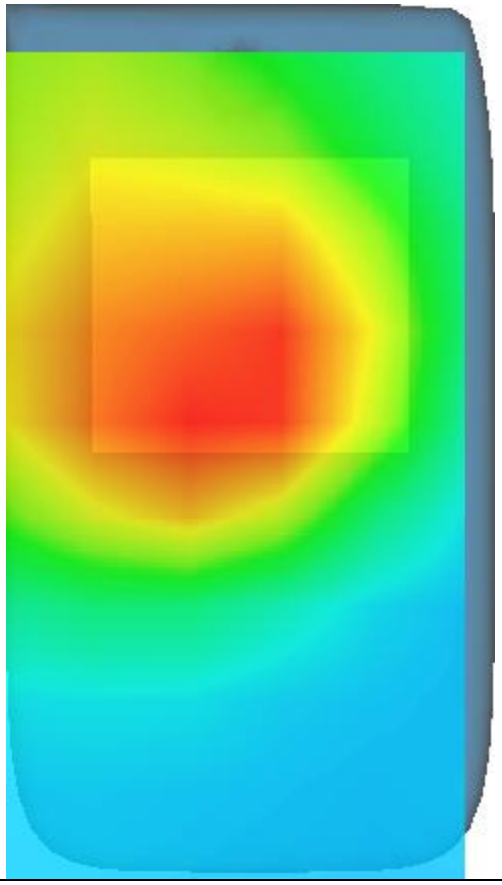
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=7.00
SAR Peak: 0.73 W/kg

SAR 10g (W/Kg)	0.287112
SAR 1g (W/Kg)	0.471974

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7234	0.4930	0.3011	0.1873	0.1184	0.0799	0.0559



3D screen shot	Hot spot position
	

MEASUREMENT 9

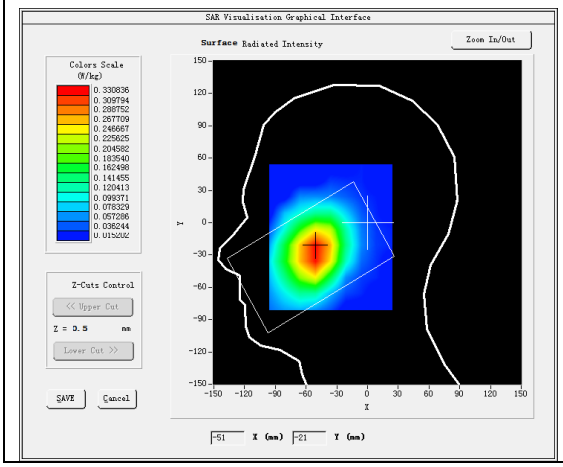
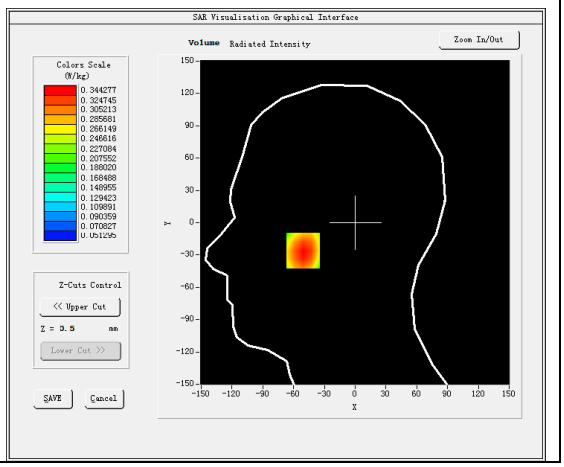
Date of measurement: 4/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

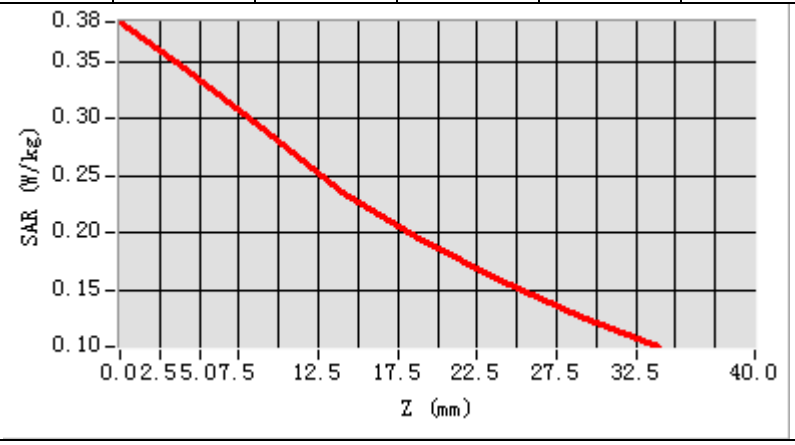
Frequency (MHz)	836.400000
Relative permittivity (real part)	40.750961
Relative permittivity (imaginary part)	19.941540
Conductivity (S/m)	0.926617
Variation (%)	3.770000

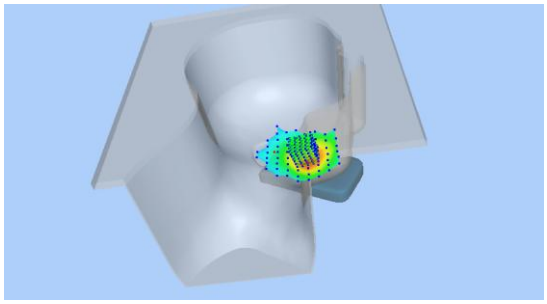
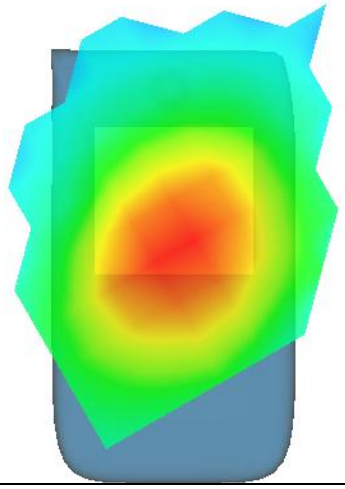
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-26.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.260602
SAR 1g (W/Kg)	0.342697

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3845	0.3443	0.2909	0.2366	0.1931	0.1582	0.1272



3D screen shot	Hot spot position
	

MEASUREMENT 10

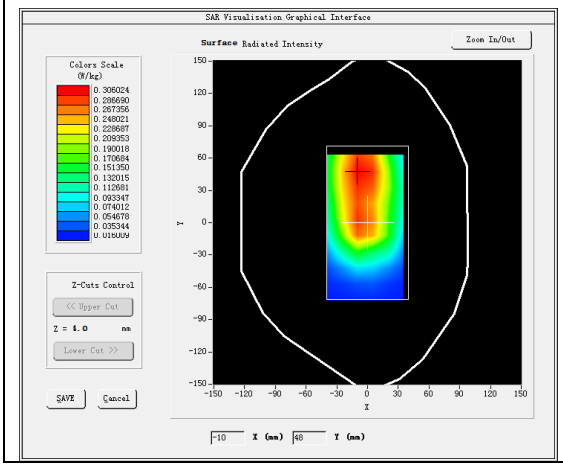
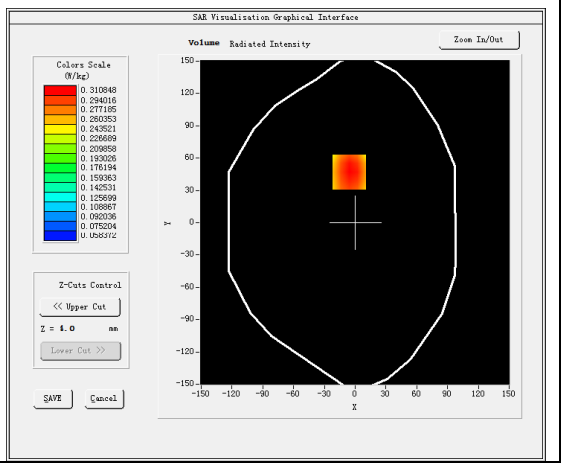
Date of measurement: 12/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	Middle
Signal	WCDMA (Crest factor: 1.0)

B. SAR Measurement Results

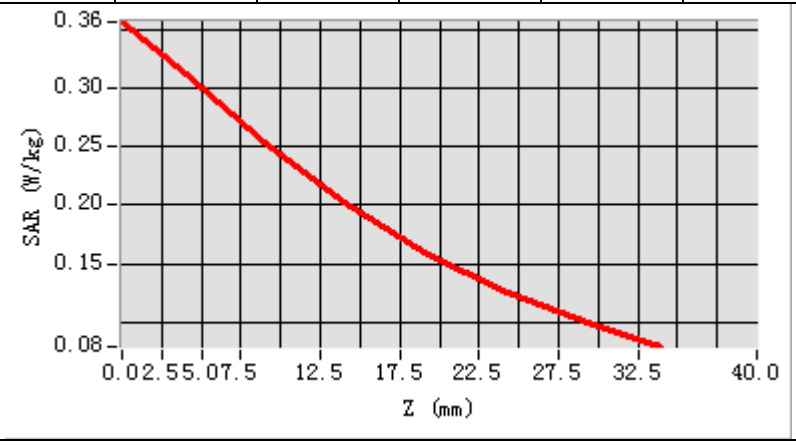
Frequency (MHz)	836.400000
Relative permittivity (real part)	54.579578
Relative permittivity (imaginary part)	21.142740
Conductivity (S/m)	0.982433
Variation (%)	0.190000

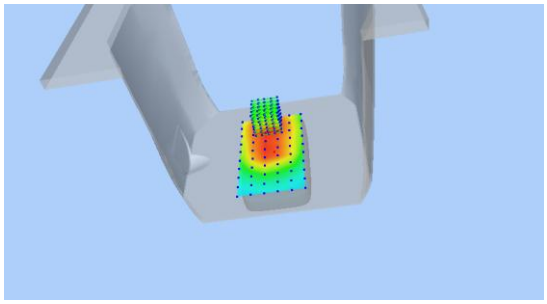
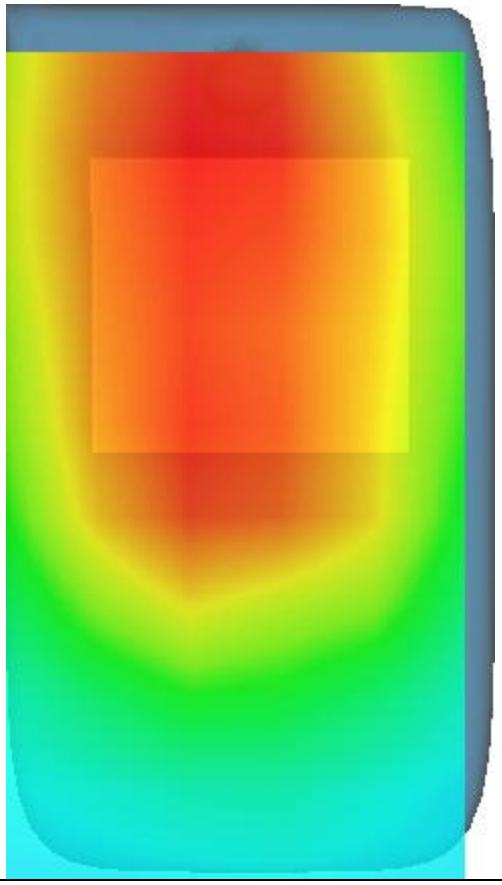
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=47.00
SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.232532
SAR 1g (W/Kg)	0.303358

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3560	0.3108	0.2537	0.2020	0.1595	0.1269	0.1020



3D screen shot	Hot spot position
	

MEASUREMENT 11

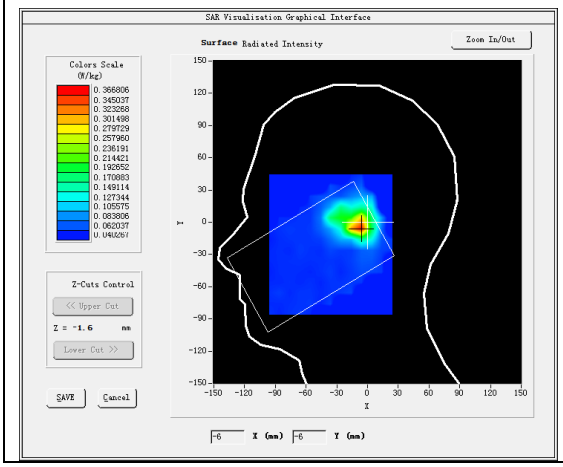
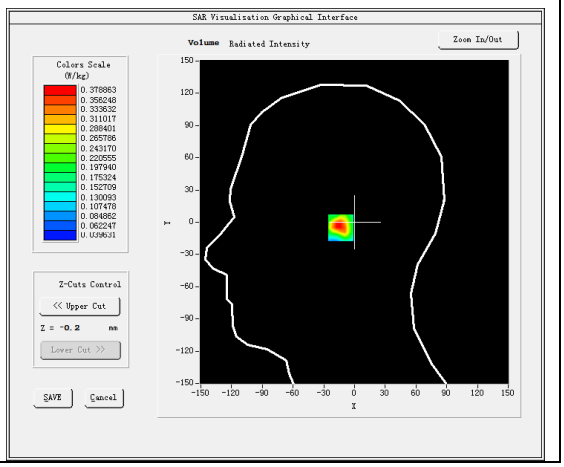
Date of measurement: 10/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

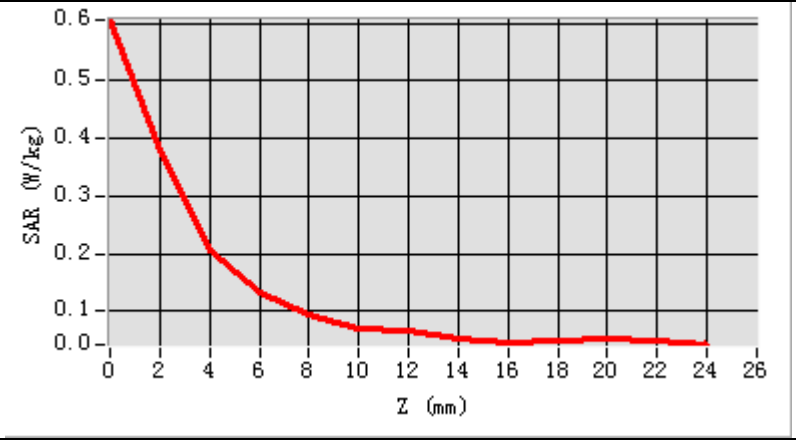
Frequency (MHz)	5200.000000
Relative permittivity (real part)	35.699982
Relative permittivity (imaginary part)	16.051619
Conductivity (S/m)	4.637134
Variation (%)	-2.040000

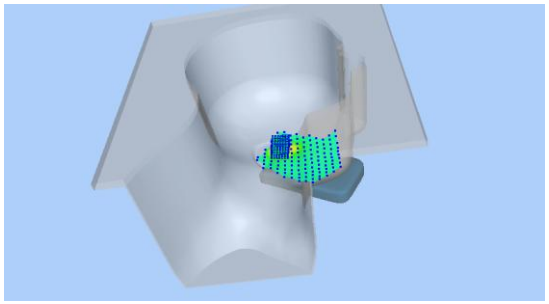
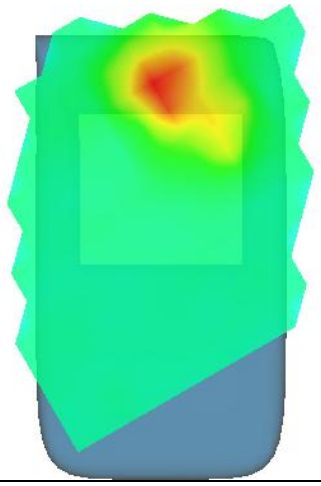
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-8.00, Y=-5.00
SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.162052
SAR 1g (W/Kg)	0.382356

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.6061	0.3789	0.2049	0.1321	0.0930	0.0706	0.0658	0.0540	0.0462	0.0480	0.0521	0.0477



3D screen shot	Hot spot position
	

MEASUREMENT 12

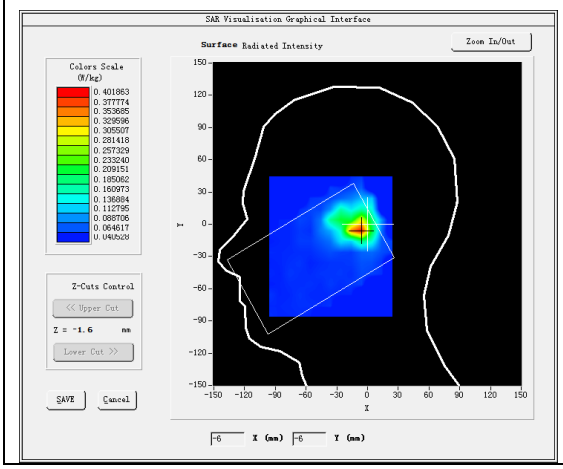
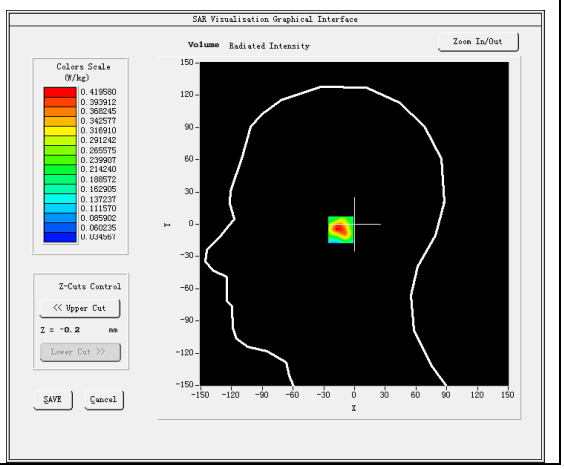
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

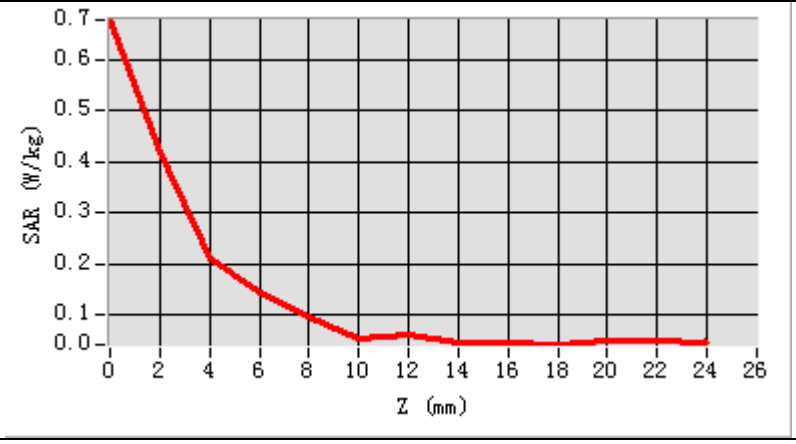
Frequency (MHz)	5785.000000
Relative permittivity (real part)	34.681789
Relative permittivity (imaginary part)	16.065266
Conductivity (S/m)	5.163198
Variation (%)	-1.150000

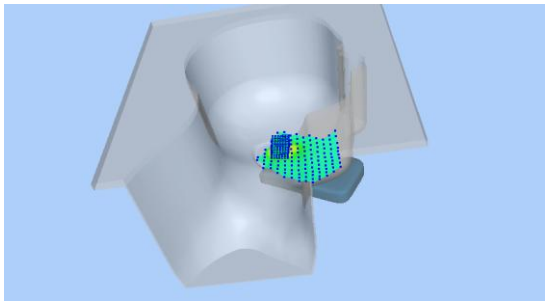
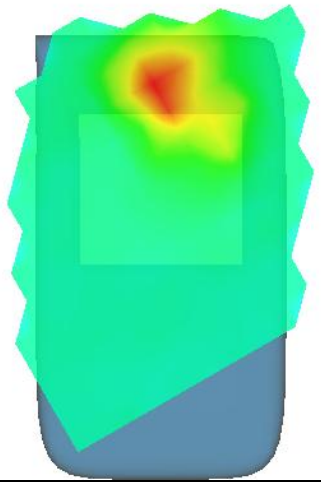
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-8.00, Y=-5.00
SAR Peak: 1.07 W/kg

SAR 10g (W/Kg)	0.174950
SAR 1g (W/Kg)	0.409985

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.6766	0.4196	0.2104	0.1436	0.0992	0.0530	0.0638	0.0461	0.0483	0.0430	0.0494	0.0497



3D screen shot	Hot spot position
	

MEASUREMENT 13

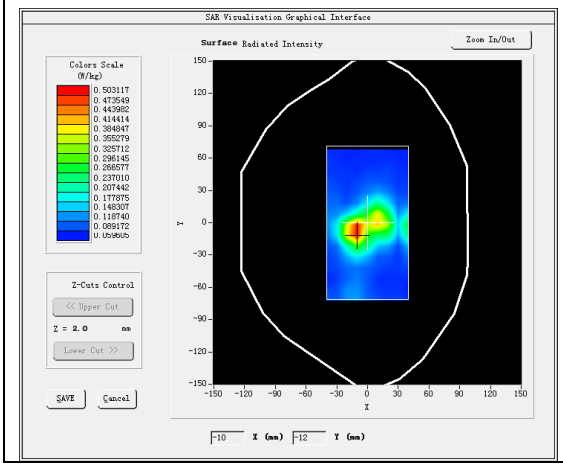
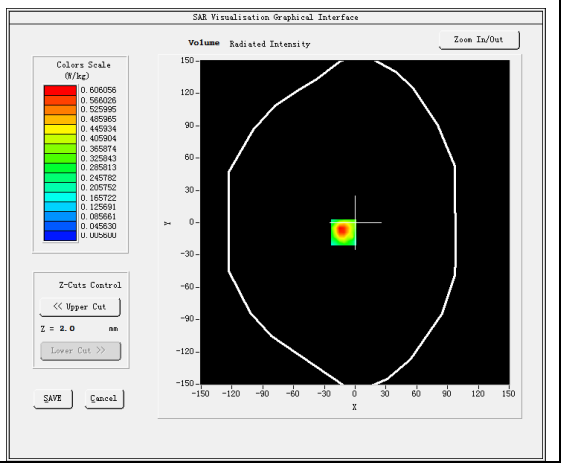
Date of measurement: 13/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

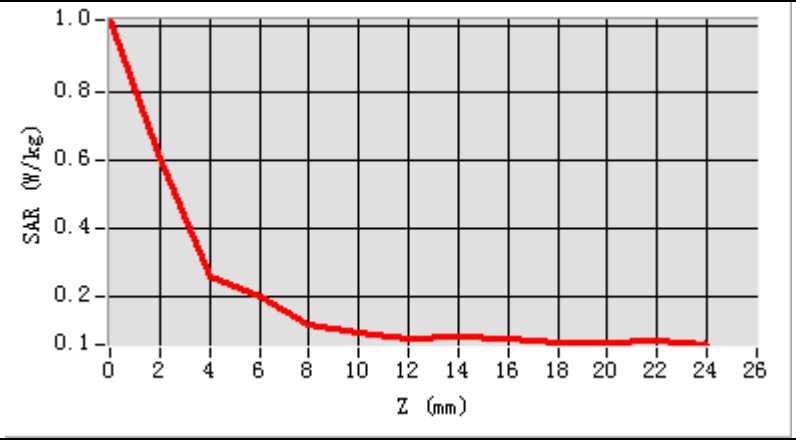
Frequency (MHz)	5200.000000
Relative permittivity (real part)	49.699535
Relative permittivity (imaginary part)	18.175508
Conductivity (S/m)	5.250703
Variation (%)	-0.030000

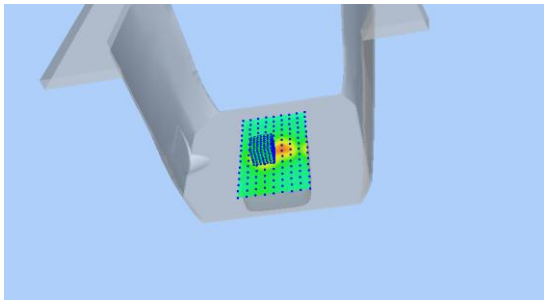
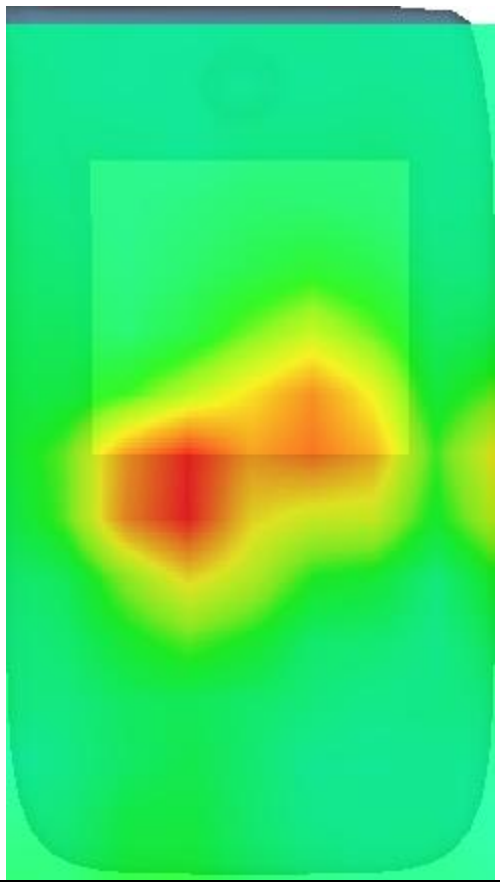
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-11.00, Y=-9.00
SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.168509
SAR 1g (W/Kg)	0.368824

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.0165	0.6061	0.2559	0.1979	0.1119	0.0905	0.0759	0.0768	0.0714	0.0633	0.0601	0.0654



3D screen shot	Hot spot position
	

MEASUREMENT 14

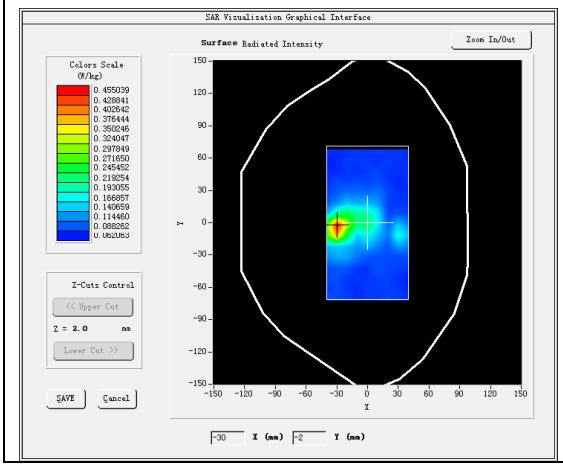
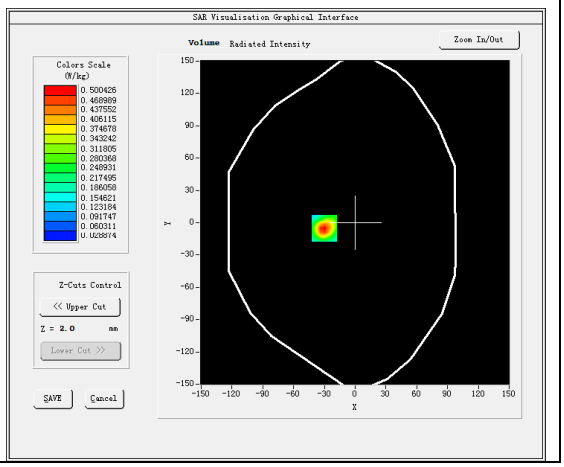
Date of measurement: 13/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

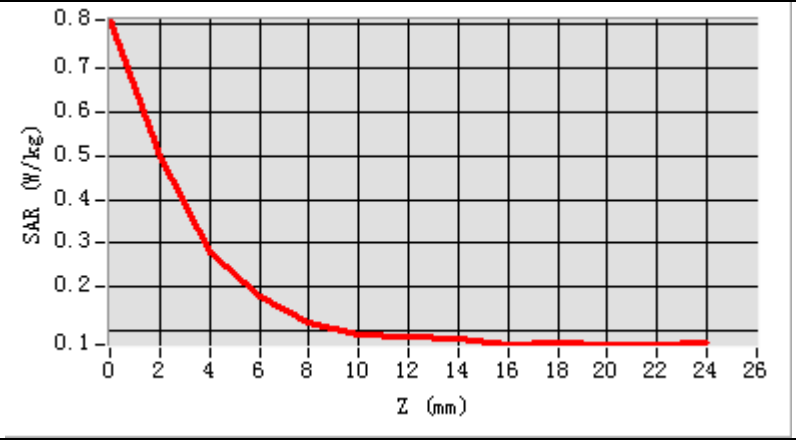
Frequency (MHz)	5785.000000
Relative permittivity (real part)	48.438702
Relative permittivity (imaginary part)	18.676765
Conductivity (S/m)	6.002505
Variation (%)	-2.810000

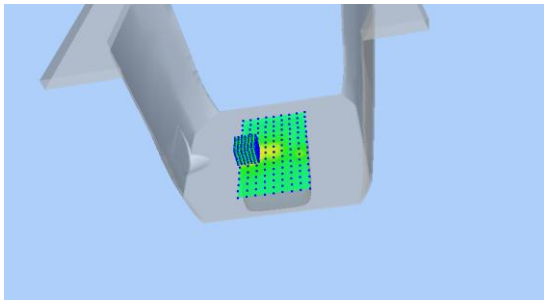
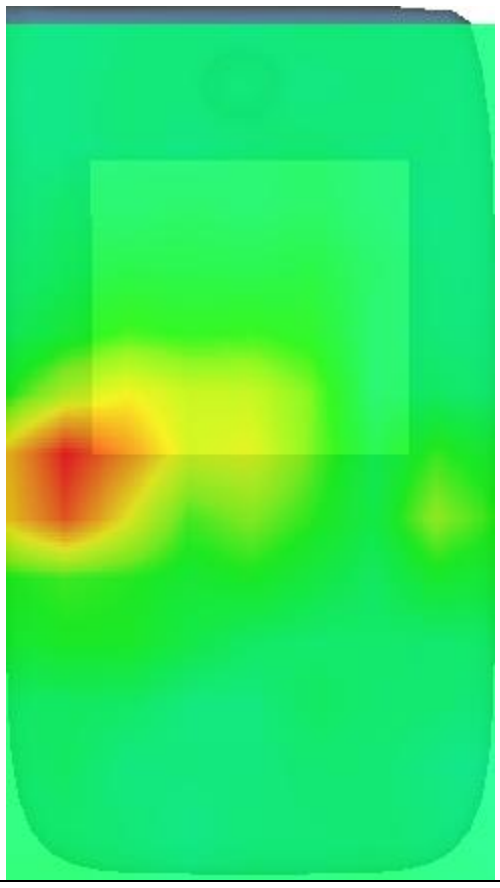
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-30.00, Y=-5.00
SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.149898
SAR 1g (W/Kg)	0.304019

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.8103	0.5004	0.2804	0.1781	0.1185	0.0914	0.0872	0.0804	0.0690	0.0710	0.0680	0.0694



3D screen shot	Hot spot position
	

MEASUREMENT 15

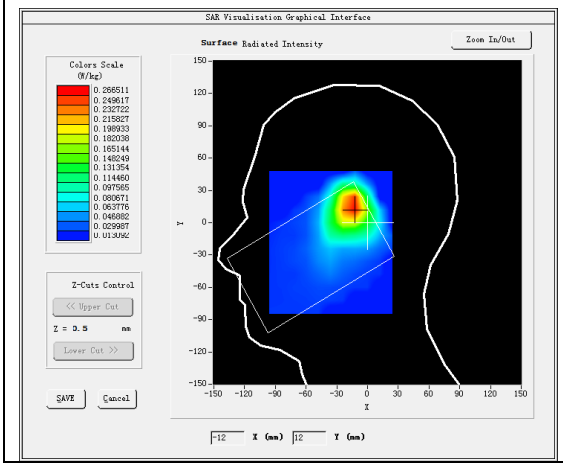
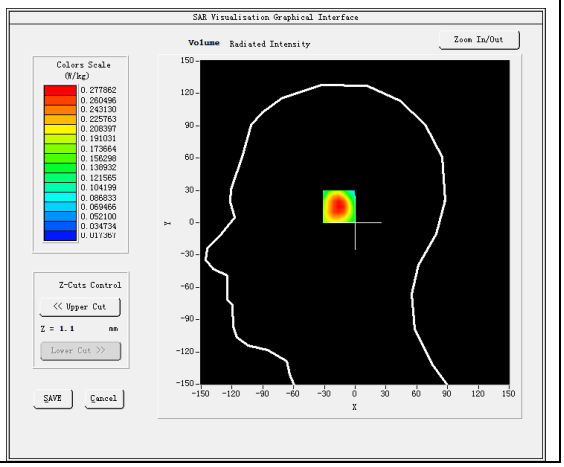
Date of measurement: 14/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	38.658001
Relative permittivity (imaginary part)	13.440300
Conductivity (S/m)	1.819667
Variation (%)	-1.200000

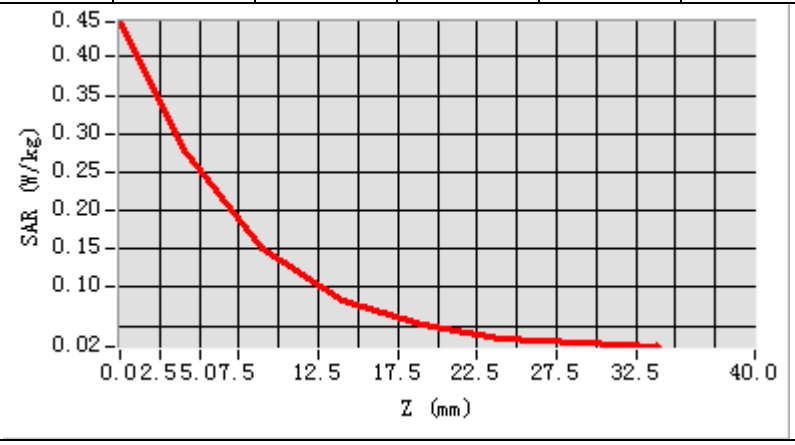
SURFACE SAR	VOLUME SAR
	

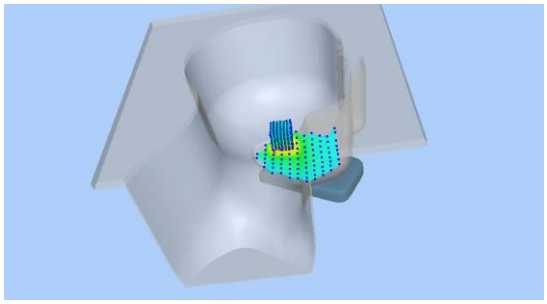
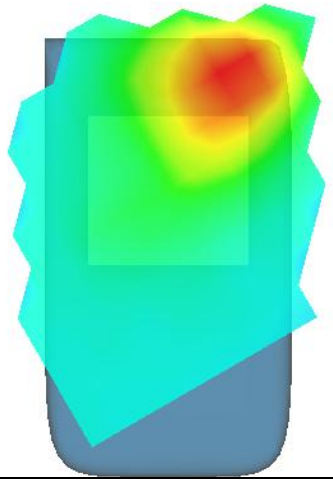
Maximum location: X=-14.00, Y=16.00

SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.143895
SAR 1g (W/Kg)	0.267421

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4454	0.2779	0.1497	0.0821	0.0506	0.0342	0.0277



3D screen shot	Hot spot position
	

MEASUREMENT 16

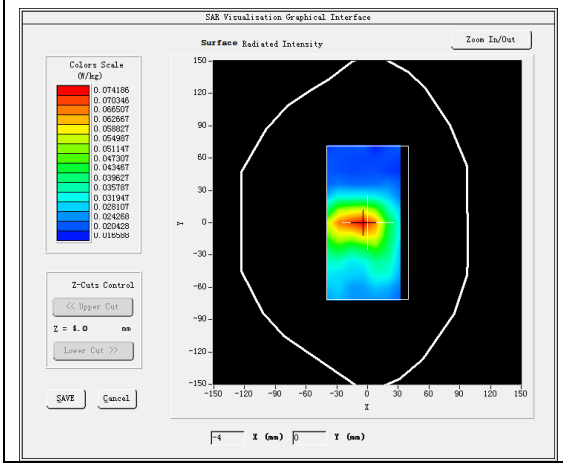
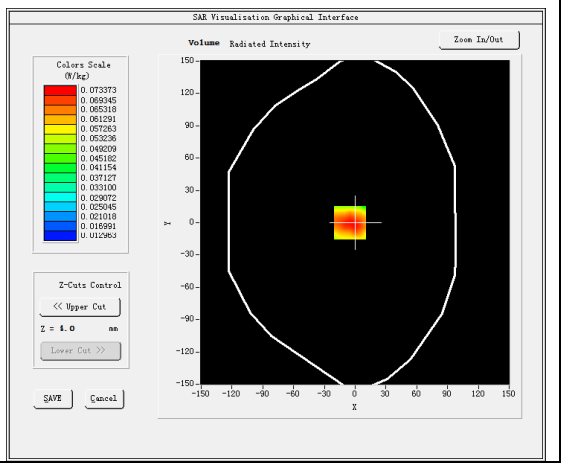
Date of measurement: 15/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

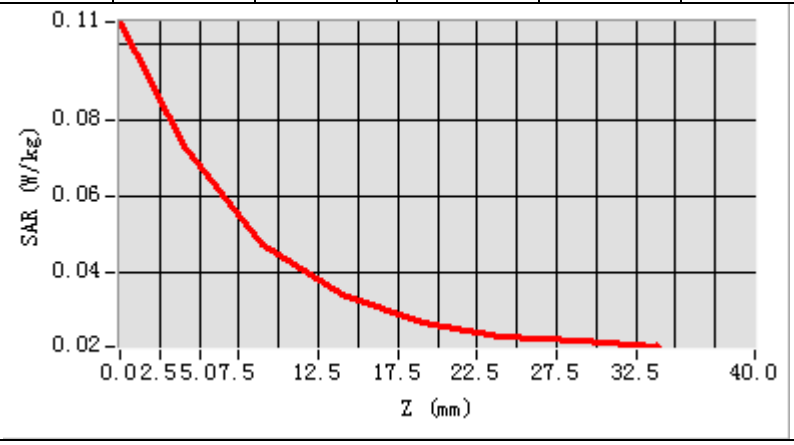
Frequency (MHz)	2437.000000
Relative permittivity (real part)	51.723701
Relative permittivity (imaginary part)	13.904400
Conductivity (S/m)	1.882501
Variation (%)	0.870000

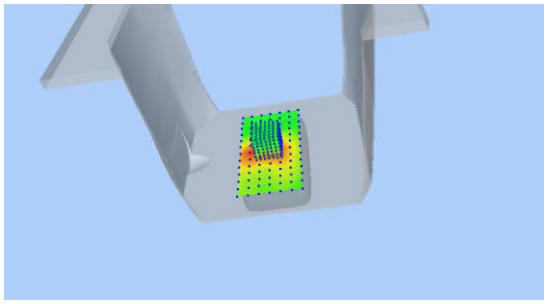
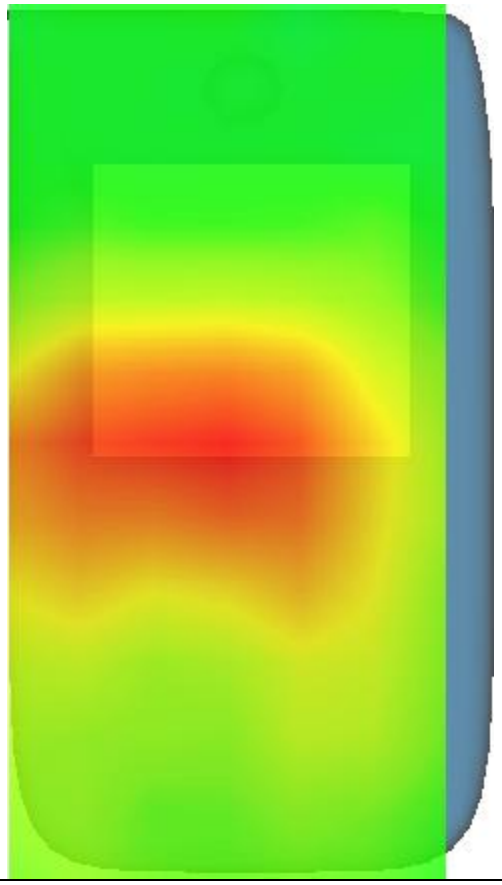
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-5.00, Y=0.00
SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.047215
SAR 1g (W/Kg)	0.070186

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1058	0.0734	0.0475	0.0342	0.0269	0.0229	0.0219



3D screen shot	Hot spot position
	

MEASUREMENT 17

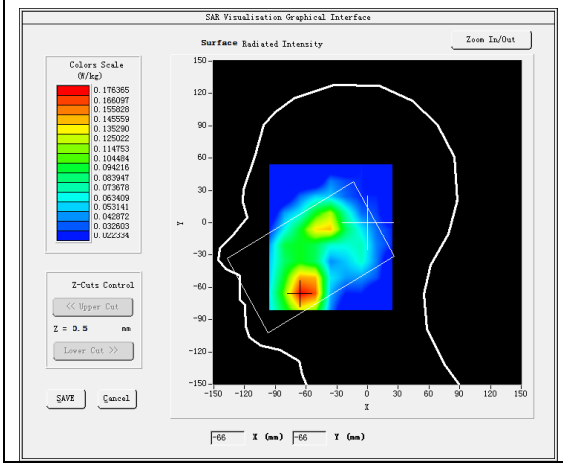
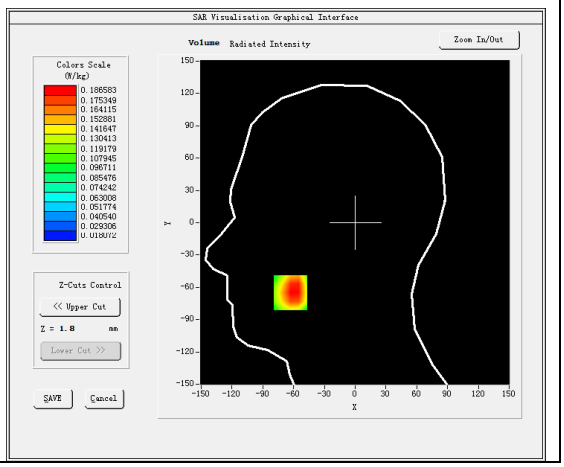
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

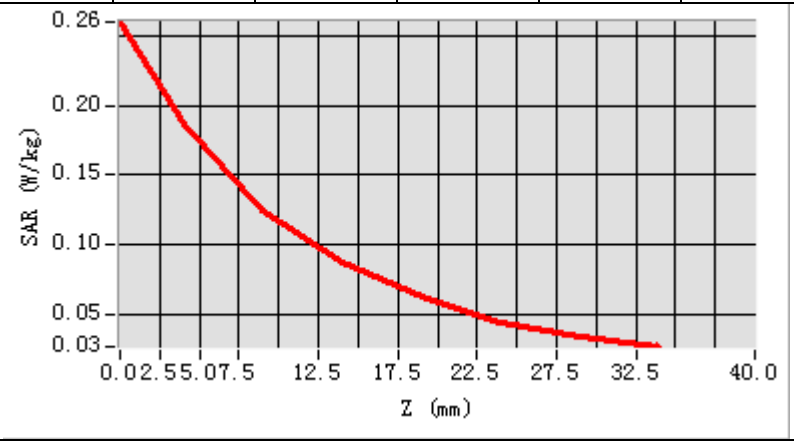
Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.077000
Relative permittivity (imaginary part)	13.230200
Conductivity (S/m)	1.381821
Variation (%)	0.880000

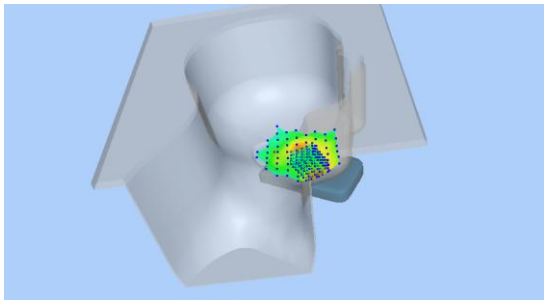
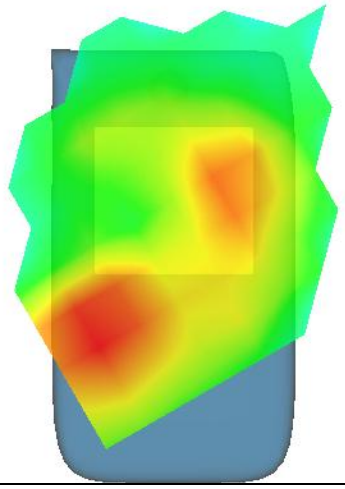
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-63.00, Y=-65.00
SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.114258
SAR 1g (W/Kg)	0.183742

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2596	0.1866	0.1247	0.0869	0.0622	0.0436	0.0339



3D screen shot	Hot spot position
	

MEASUREMENT 18

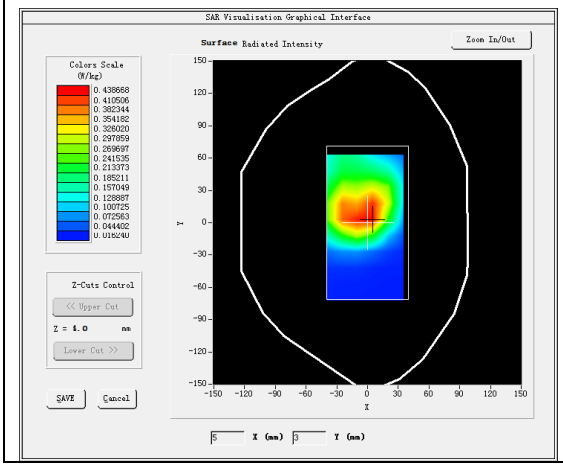
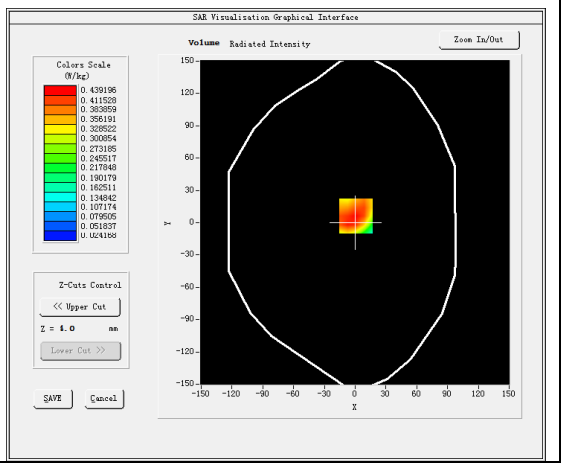
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

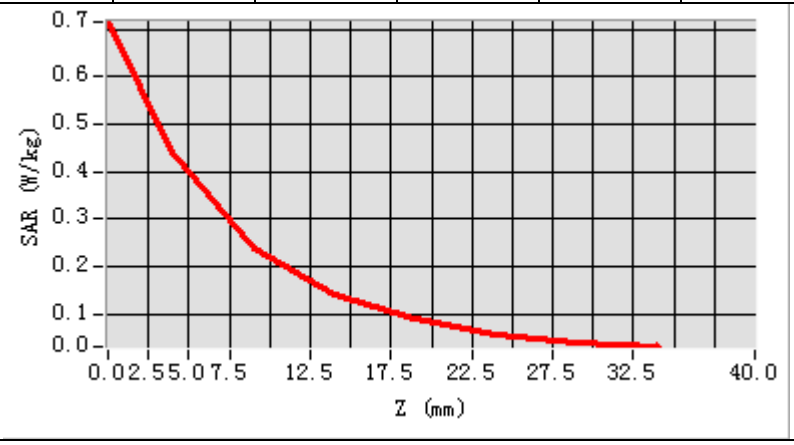
Frequency (MHz)	1880.000000
Relative permittivity (real part)	54.383900
Relative permittivity (imaginary part)	14.547700
Conductivity (S/m)	1.519426
Variation (%)	-3.760000

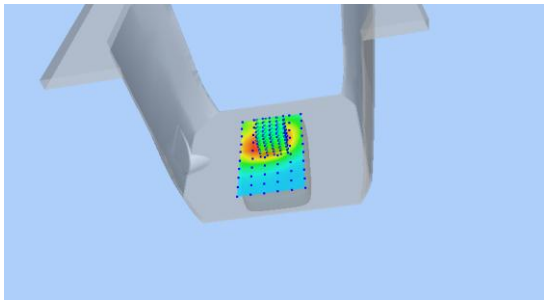
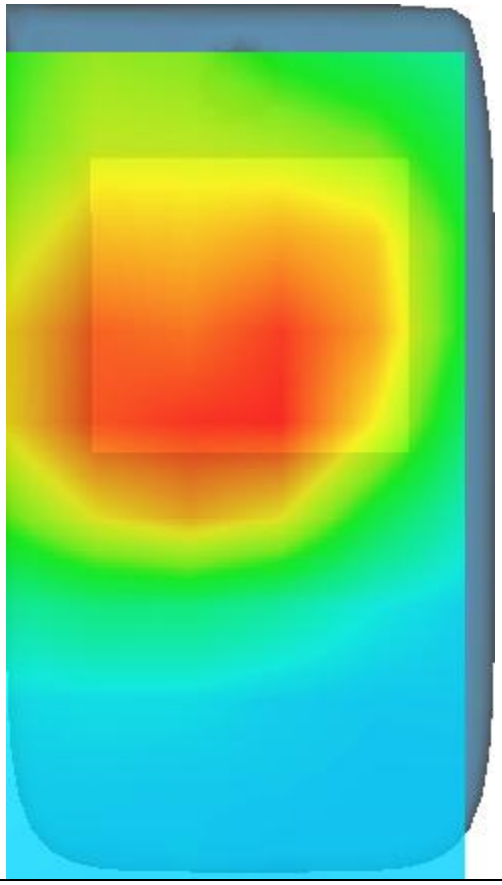
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=6.00
SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.247254
SAR 1g (W/Kg)	0.430684

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7164	0.4392	0.2362	0.1404	0.0882	0.0576	0.0398



3D screen shot	Hot spot position
	

MEASUREMENT 19

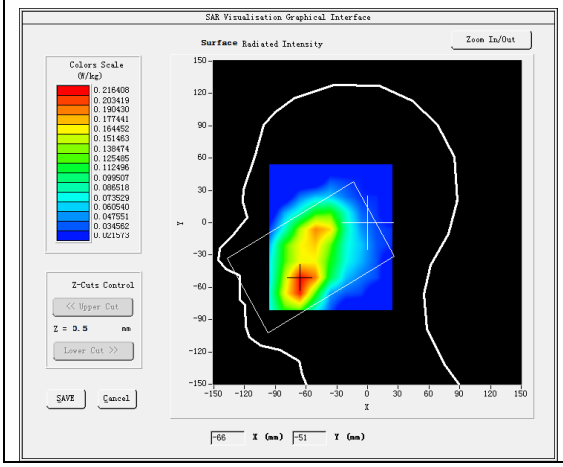
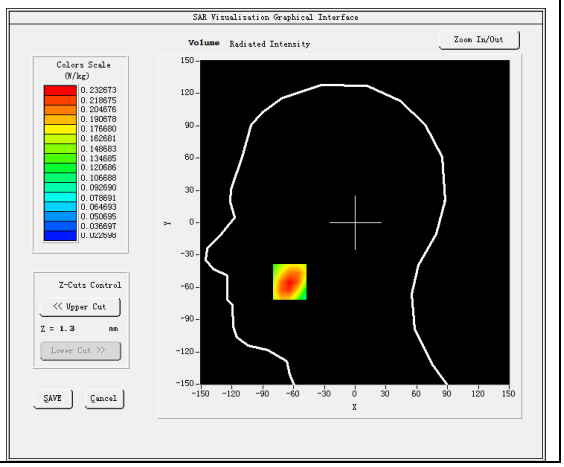
Date of measurement: 7/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative permittivity (real part)	39.125290
Relative permittivity (imaginary part)	13.730592
Conductivity (S/m)	1.321569
Variation (%)	-4.490000

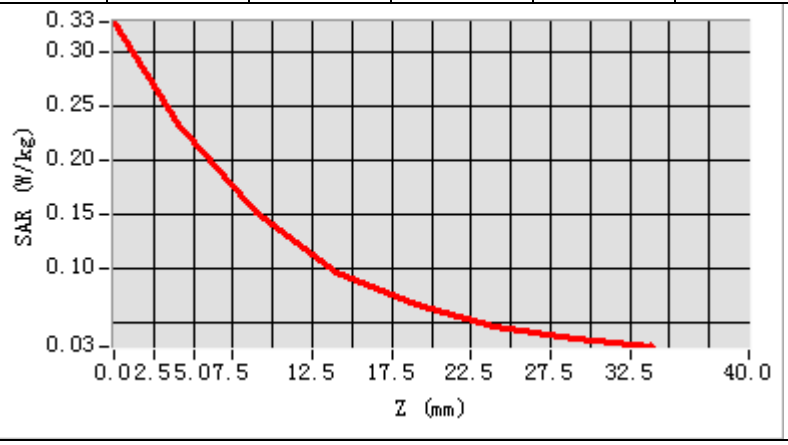
SURFACE SAR	VOLUME SAR
	

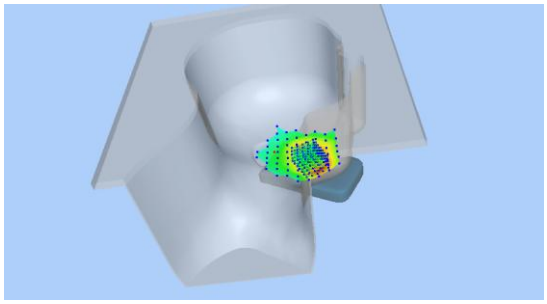
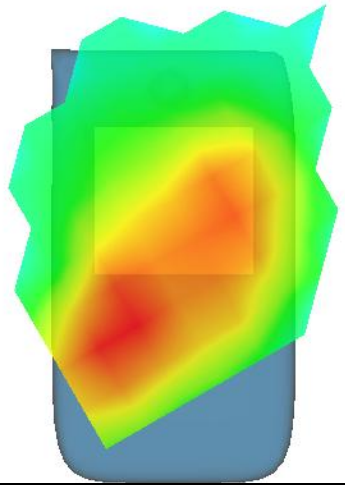
Maximum location: X=-64.00, Y=-55.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.137802
SAR 1g (W/Kg)	0.222173

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3269	0.2327	0.1509	0.0961	0.0657	0.0467	0.0353



3D screen shot	Hot spot position
	

MEASUREMENT 20

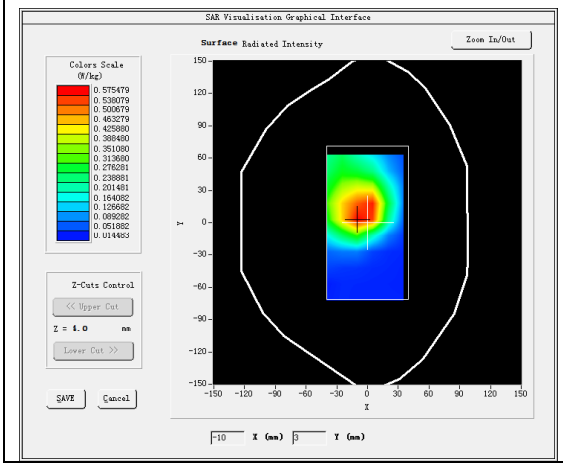
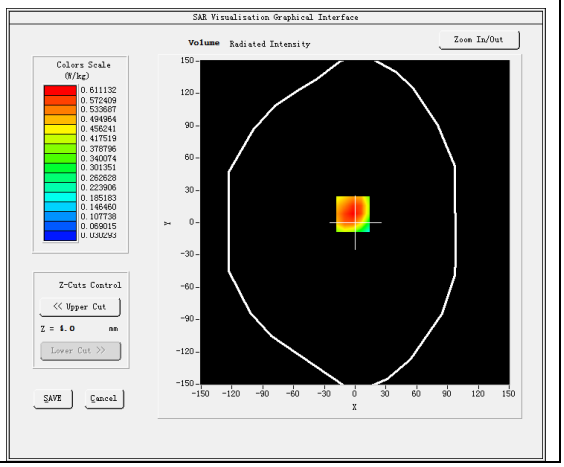
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

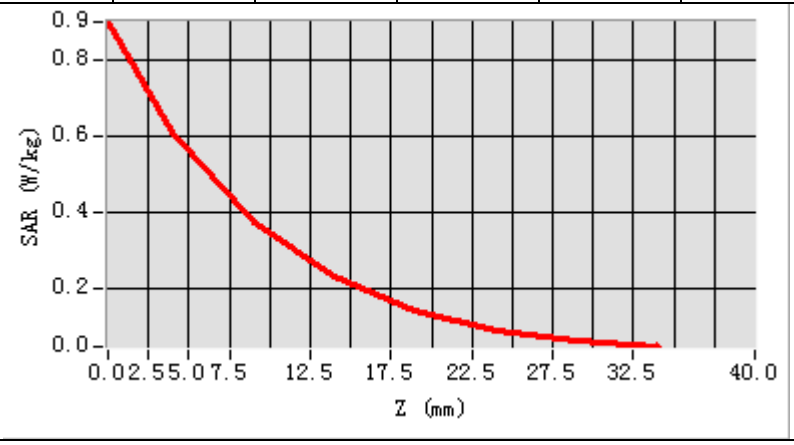
Frequency (MHz)	1732.500000
Relative permittivity (real part)	54.488365
Relative permittivity (imaginary part)	15.138220
Conductivity (S/m)	1.457054
Variation (%)	-0.680000

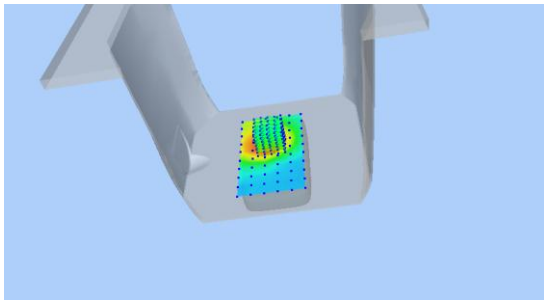
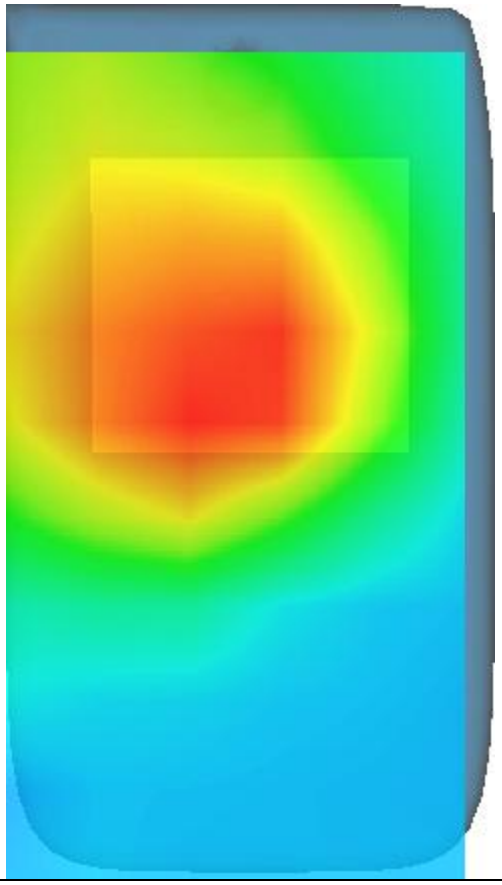
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=8.00
SAR Peak: 0.91 W/kg

SAR 10g (W/Kg)	0.351537
SAR 1g (W/Kg)	0.586787

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8975	0.6111	0.3710	0.2284	0.1416	0.0891	0.0628



3D screen shot	Hot spot position
	

MEASUREMENT 21

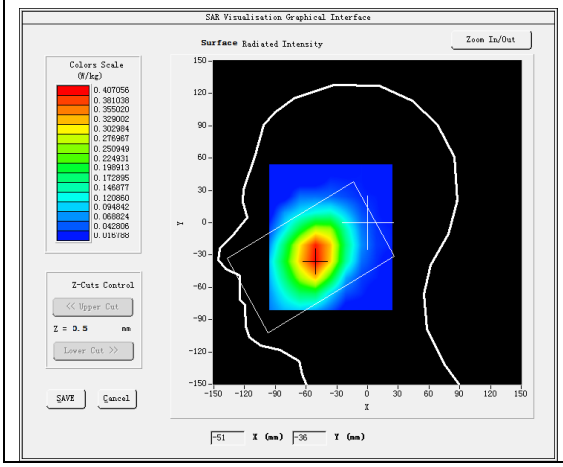
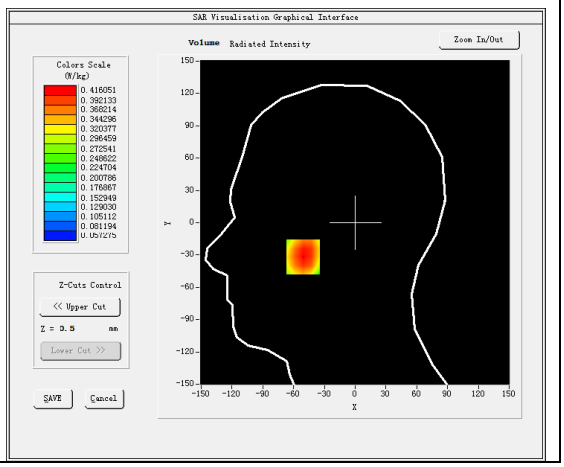
Date of measurement: 4/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

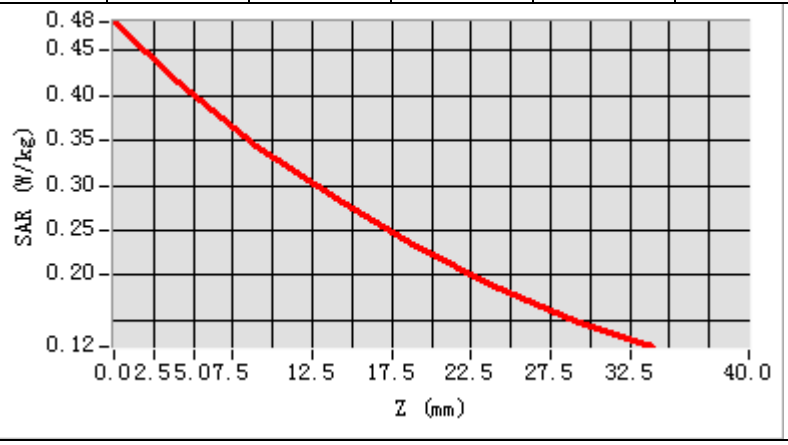
Frequency (MHz)	836.500000
Relative permittivity (real part)	40.753551
Relative permittivity (imaginary part)	19.940201
Conductivity (S/m)	0.926665
Variation (%)	3.180000

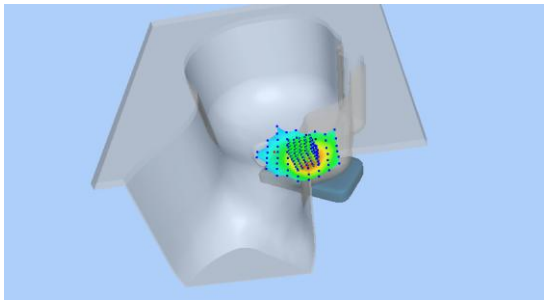
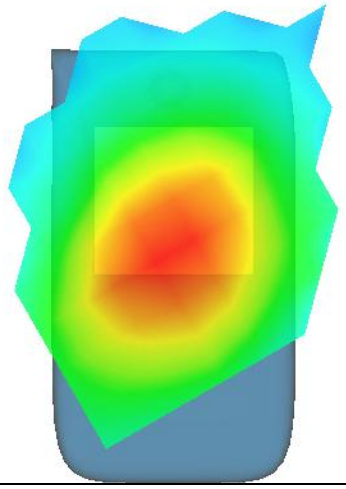
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-32.00
SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.316091
SAR 1g (W/Kg)	0.414826

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4824	0.4161	0.3447	0.2864	0.2327	0.1870	0.1498



3D screen shot	Hot spot position
	

MEASUREMENT 22

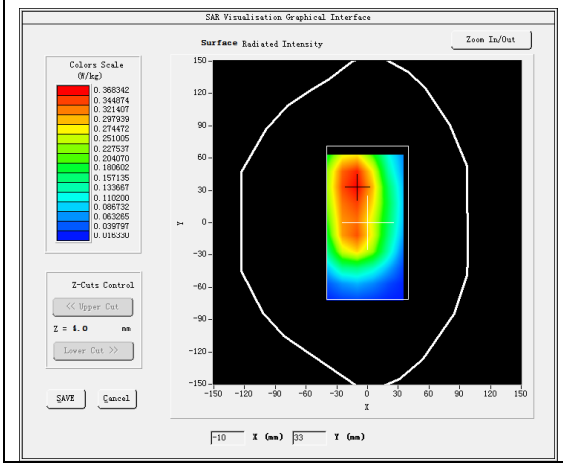
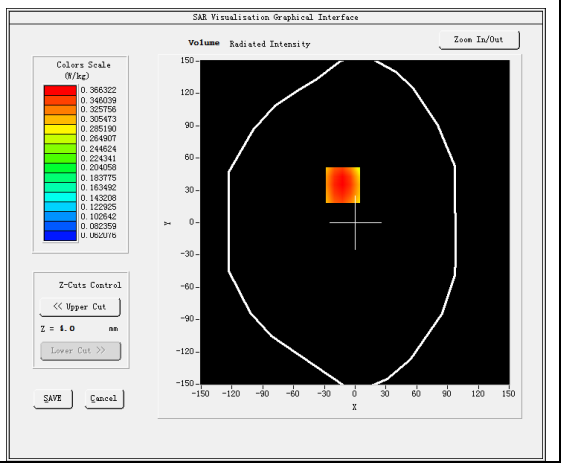
Date of measurement: 12/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

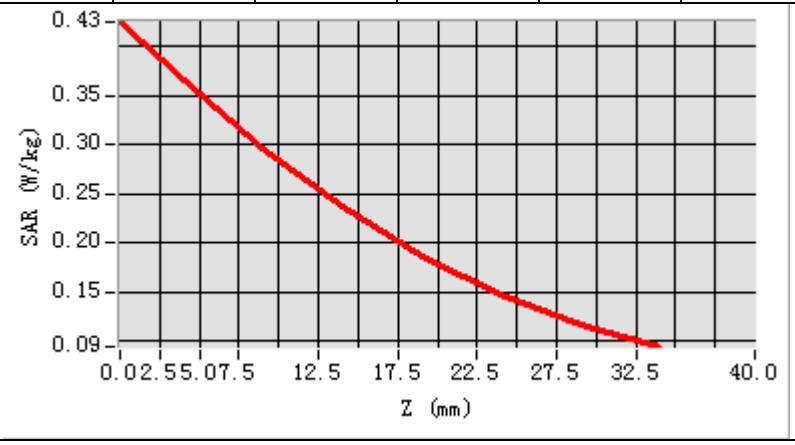
Frequency (MHz)	836.500000
Relative permittivity (real part)	54.583500
Relative permittivity (imaginary part)	21.136999
Conductivity (S/m)	0.982283
Variation (%)	-0.470000

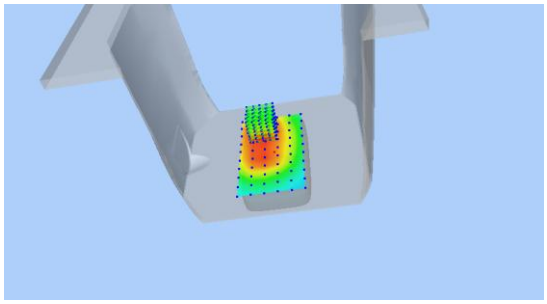
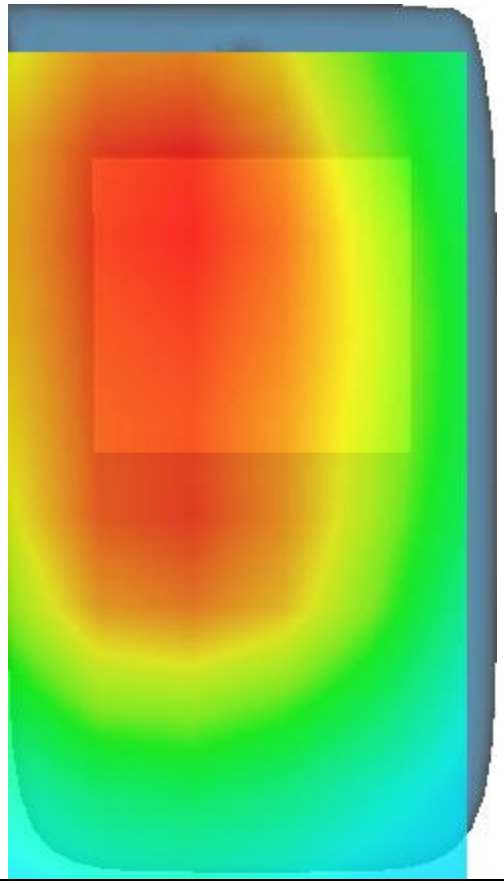
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-12.00, Y=35.00
SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.273046
SAR 1g (W/Kg)	0.358544

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4256	0.3663	0.2969	0.2371	0.1863	0.1475	0.1174



3D screen shot	Hot spot position
	

MEASUREMENT 23

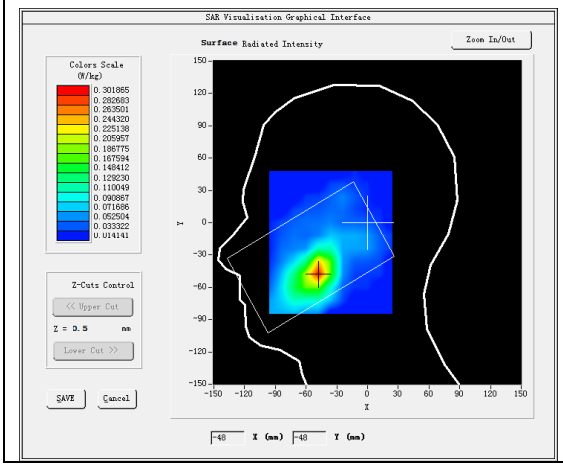
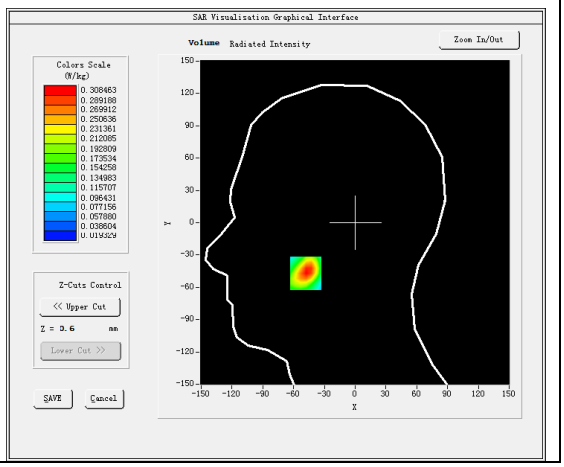
Date of measurement: 8/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

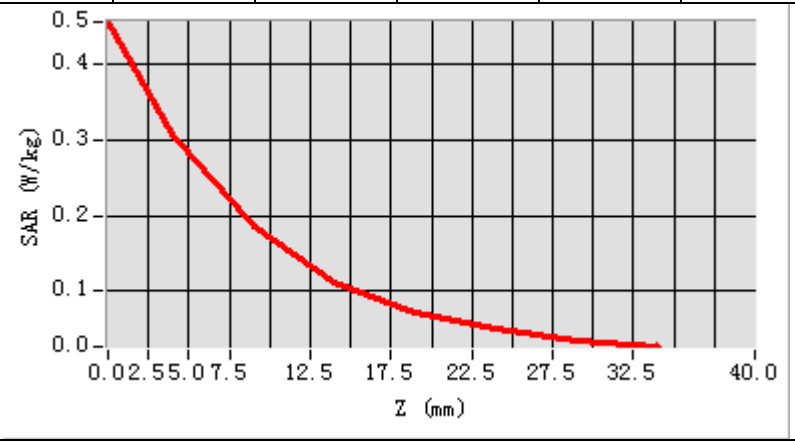
Frequency (MHz)	2535.000000
Relative permittivity (real part)	38.492485
Relative permittivity (imaginary part)	13.851160
Conductivity (S/m)	1.950705
Variation (%)	-1.720000

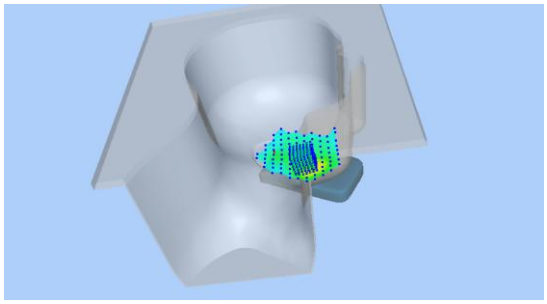
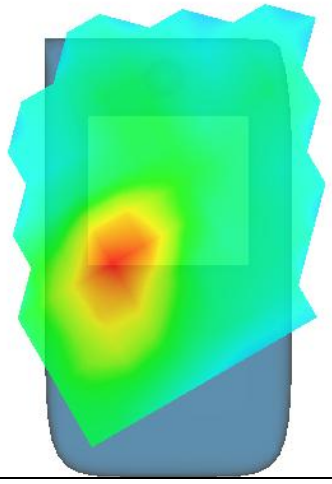
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-48.00, Y=-47.00
SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.156748
SAR 1g (W/Kg)	0.290759

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4570	0.3085	0.1863	0.1111	0.0711	0.0491	0.0348



3D screen shot	Hot spot position
	

MEASUREMENT 24

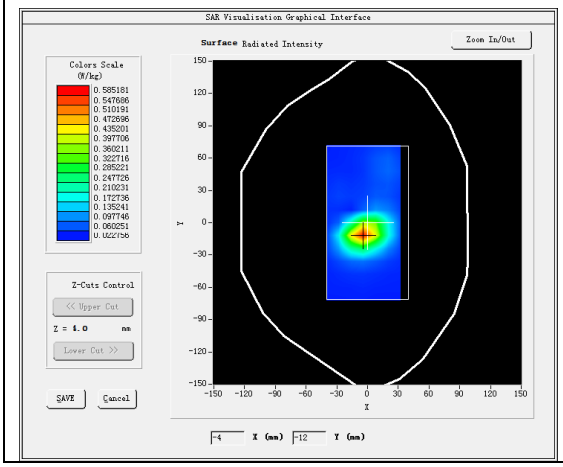
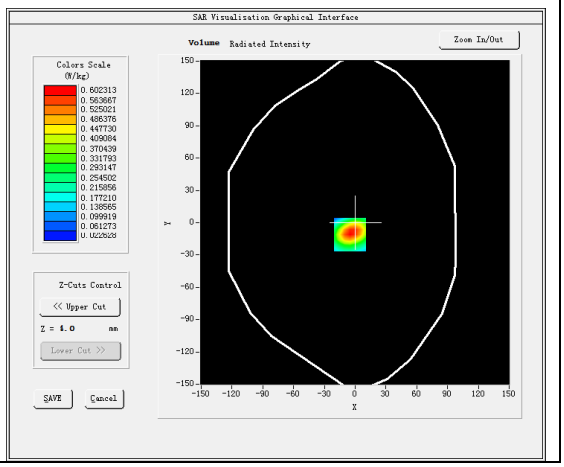
Date of measurement: 9/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

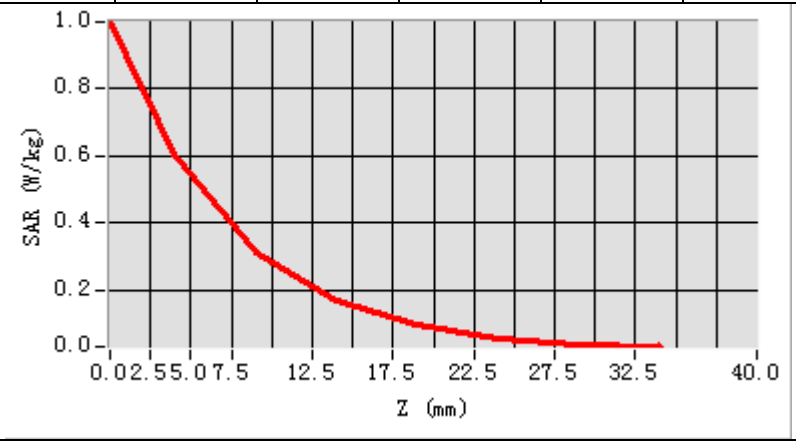
Frequency (MHz)	2535.000000
Relative permittivity (real part)	53.196945
Relative permittivity (imaginary part)	15.197840
Conductivity (S/m)	2.140362
Variation (%)	-4.480000

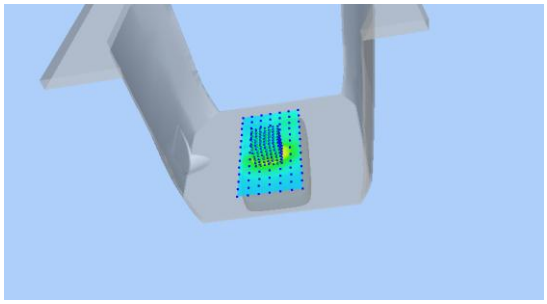
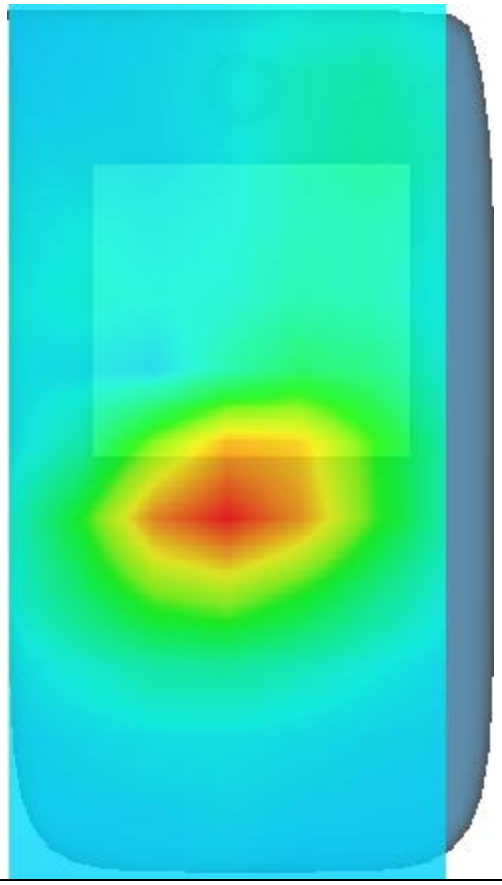
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-5.00, Y=-11.00
SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.277987
SAR 1g (W/Kg)	0.573567

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9953	0.6023	0.3105	0.1680	0.0955	0.0573	0.0395



3D screen shot	Hot spot position
	

MEASUREMENT 25

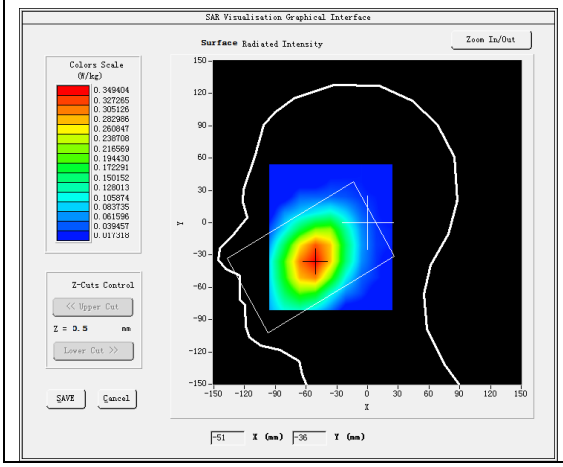
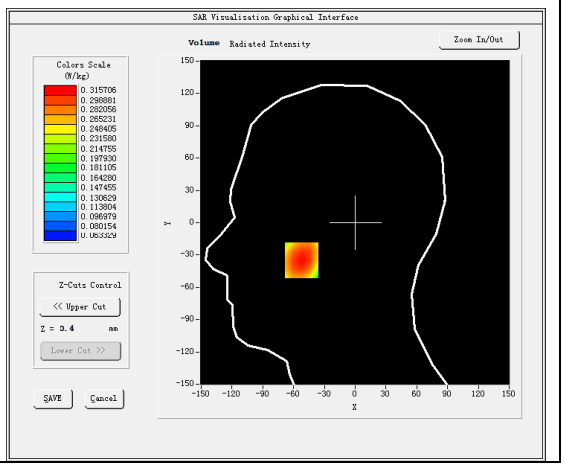
Date of measurement: 7/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. SAR Measurement Results

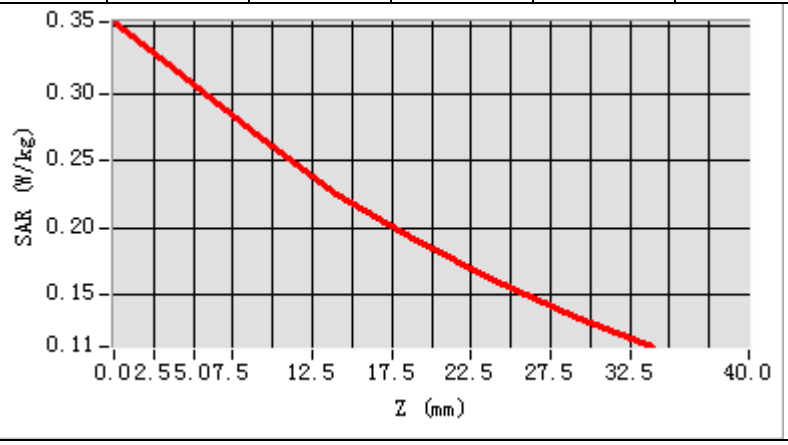
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.117962
Relative permittivity (imaginary part)	22.077780
Conductivity (S/m)	0.867779
Variation (%)	-1.930000

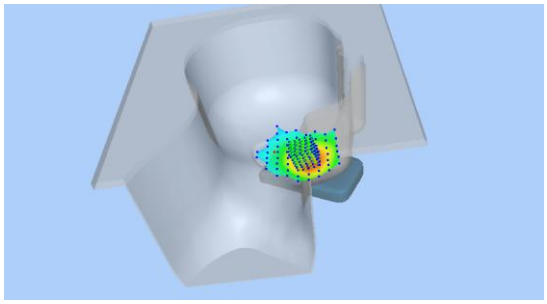
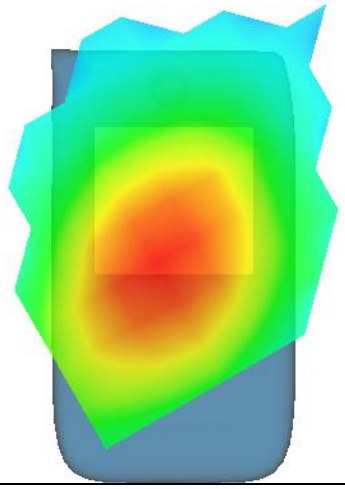
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-52.00, Y=-35.00
SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.245688
SAR 1g (W/Kg)	0.306022

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3537	0.3157	0.2703	0.2259	0.1909	0.1610	0.1342



3D screen shot	Hot spot position
	

MEASUREMENT 26

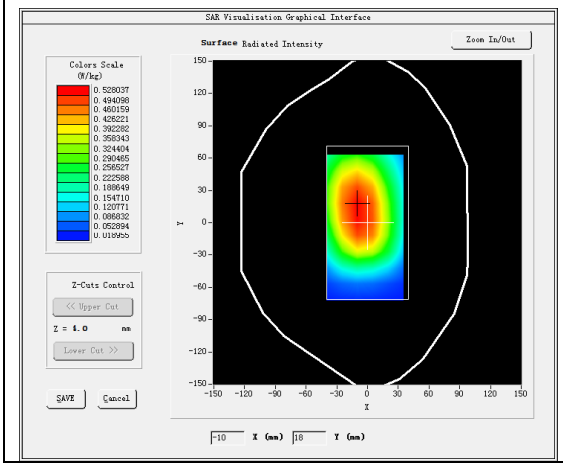
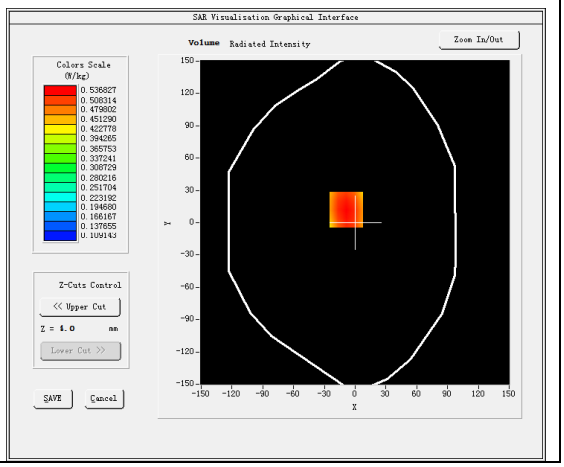
Date of measurement: 8/11/2020

A. Experimental conditions.

Area Scan	dx=15mm dy=15mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. SAR Measurement Results

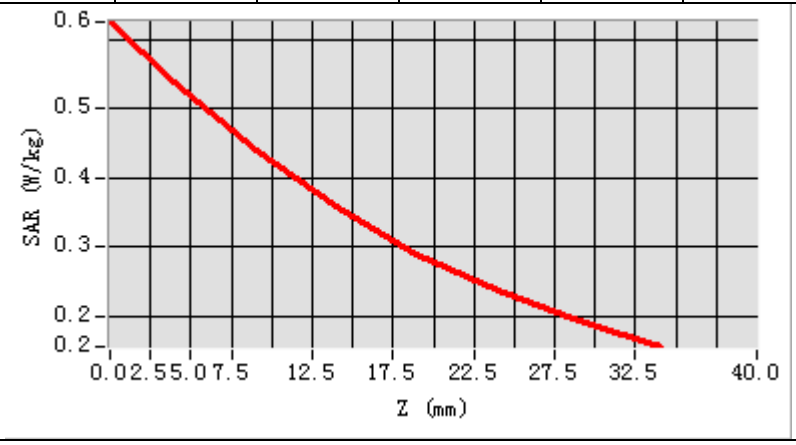
Frequency (MHz)	707.500000
Relative permittivity (real part)	55.691662
Relative permittivity (imaginary part)	23.510851
Conductivity (S/m)	0.924107
Variation (%)	0.640000

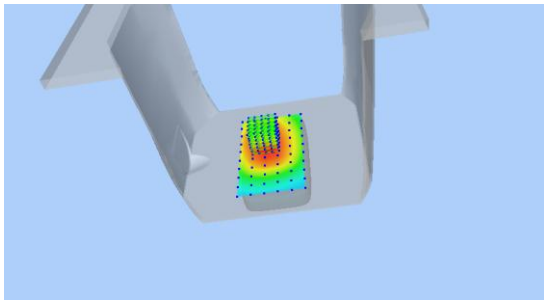
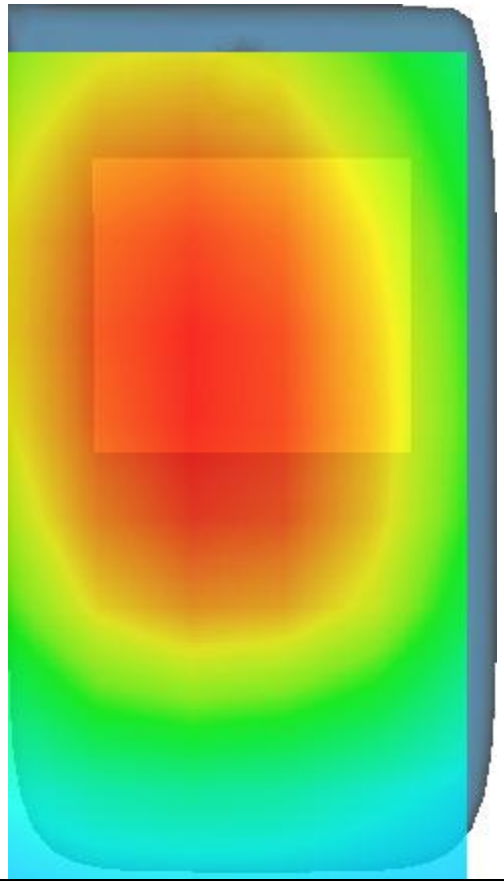
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-9.00, Y=12.00
SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.408695
SAR 1g (W/Kg)	0.520730

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6250	0.5368	0.4384	0.3588	0.2886	0.2381	0.1935



3D screen shot	Hot spot position
	

MEASUREMENT 27

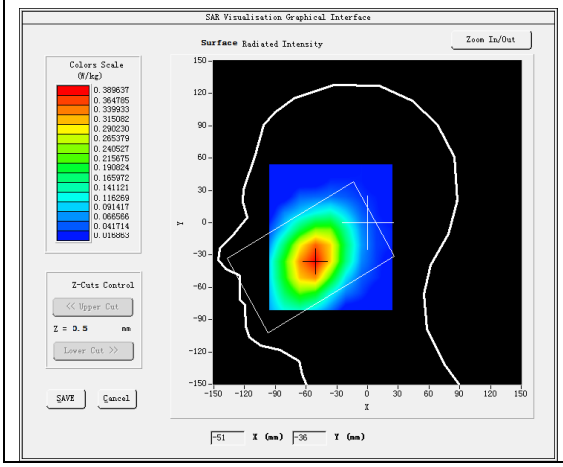
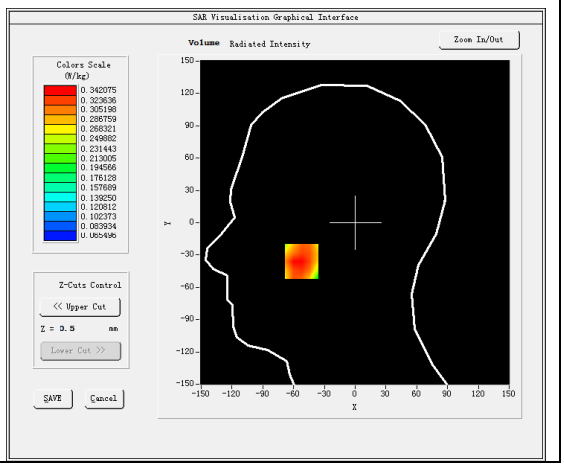
Date of measurement: 7/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

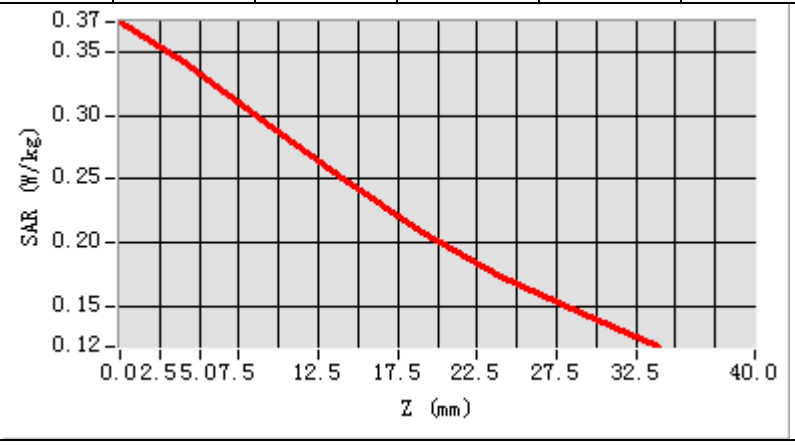
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.096710
Relative permittivity (imaginary part)	22.106178
Conductivity (S/m)	0.871966
Variation (%)	-2.170000

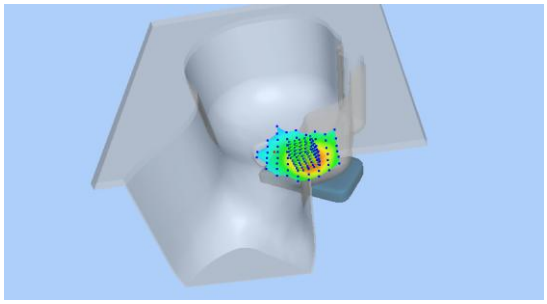
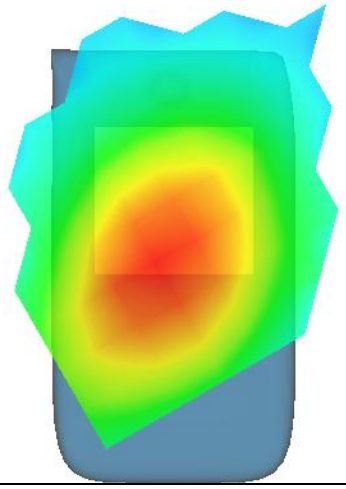
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-52.00, Y=-36.00
SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.269183
SAR 1g (W/Kg)	0.330798

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3731	0.3421	0.2963	0.2510	0.2088	0.1744	0.1454



3D screen shot	Hot spot position
	

MEASUREMENT 28

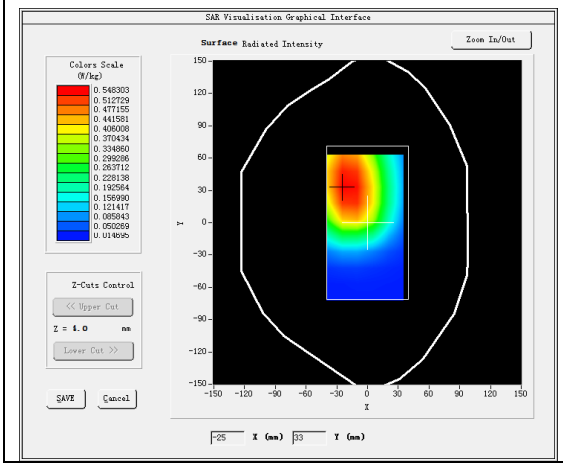
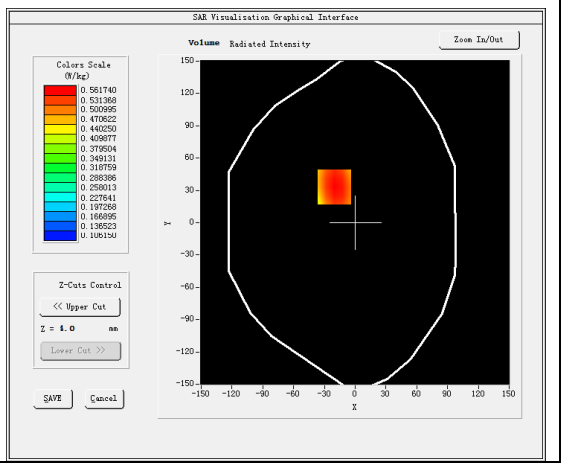
Date of measurement: 8/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

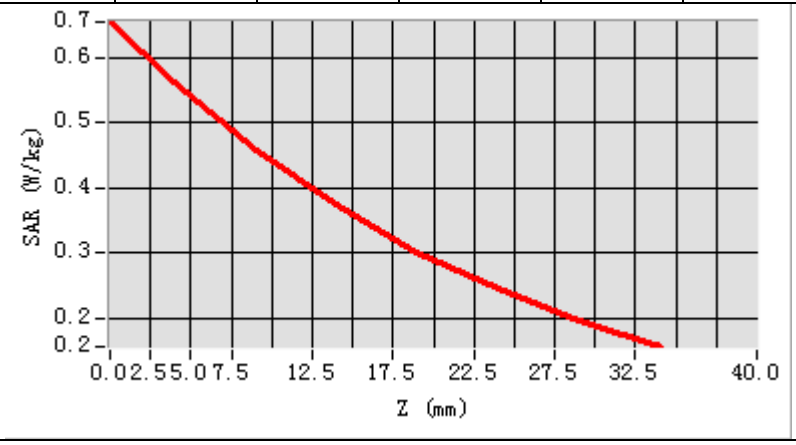
Frequency (MHz)	710.000000
Relative permittivity (real part)	55.713760
Relative permittivity (imaginary part)	23.439501
Conductivity (S/m)	0.924558
Variation (%)	0.010000

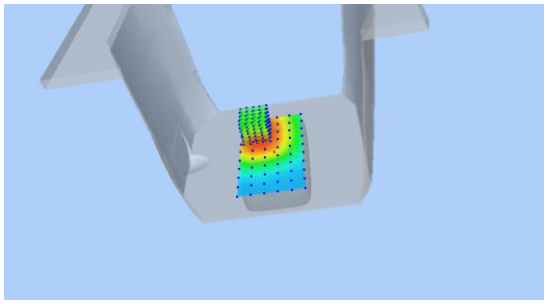
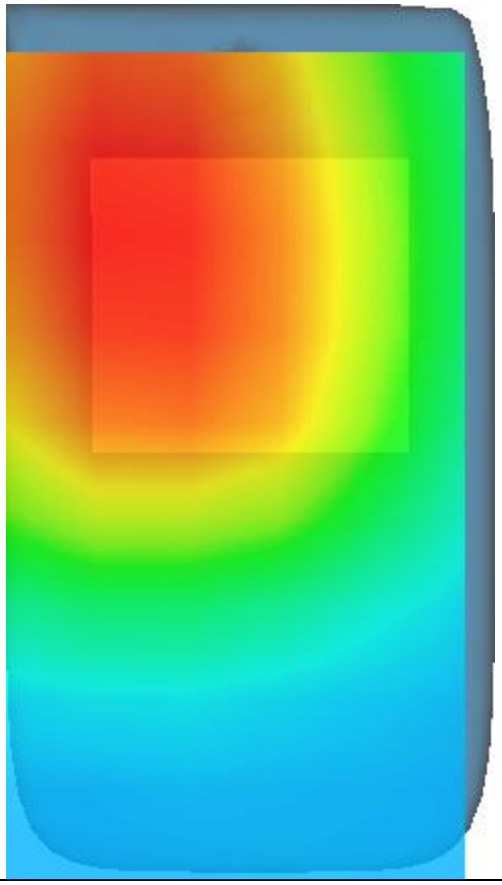
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-20.00, Y=33.00
SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.428572
SAR 1g (W/Kg)	0.545902

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6545	0.5617	0.4590	0.3758	0.3020	0.2445	0.1974



3D screen shot	Hot spot position
	

MEASUREMENT 29

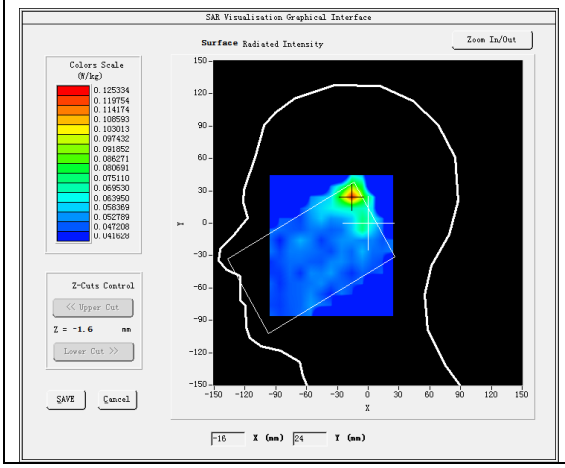
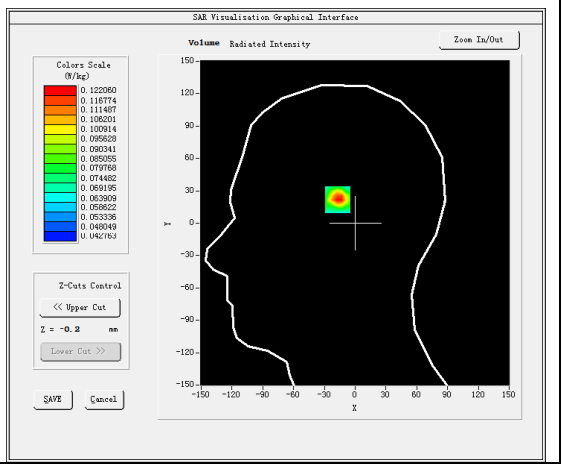
Date of measurement: 10/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

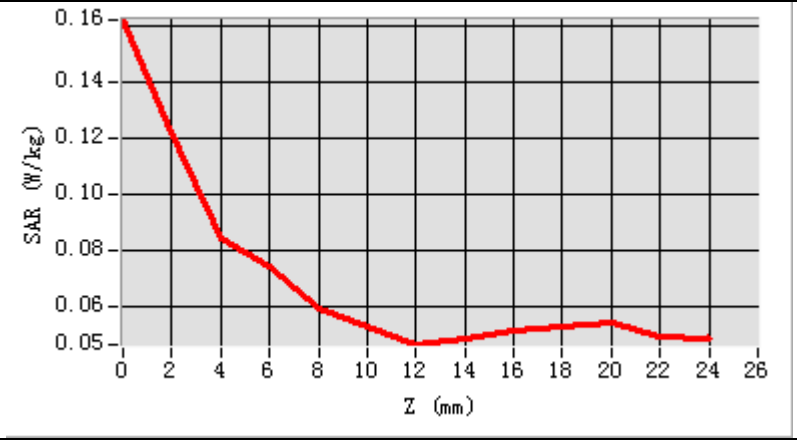
Frequency (MHz)	5280.000000
Relative permittivity (real part)	35.590786
Relative permittivity (imaginary part)	16.136778
Conductivity (S/m)	4.733455
Variation (%)	-2.340000

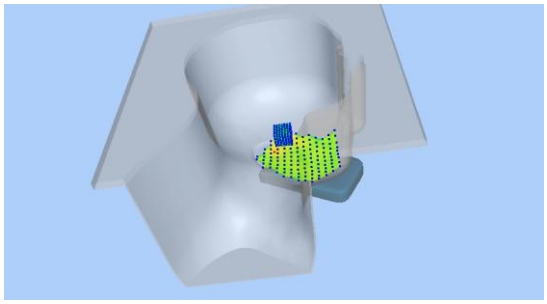
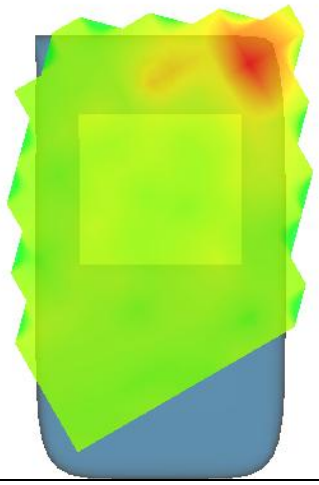
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-16.00, Y=25.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.071477
SAR 1g (W/Kg)	0.114840

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.1622	0.1221	0.0841	0.0741	0.0595	0.0527	0.0465	0.0488	0.0513	0.0528	0.0545	0.0494



3D screen shot	Hot spot position
	

MEASUREMENT 30

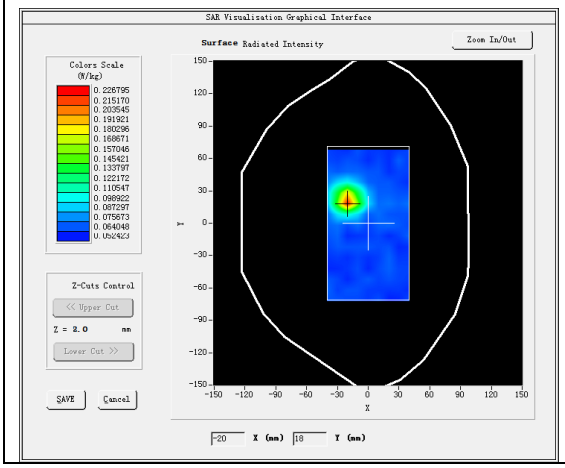
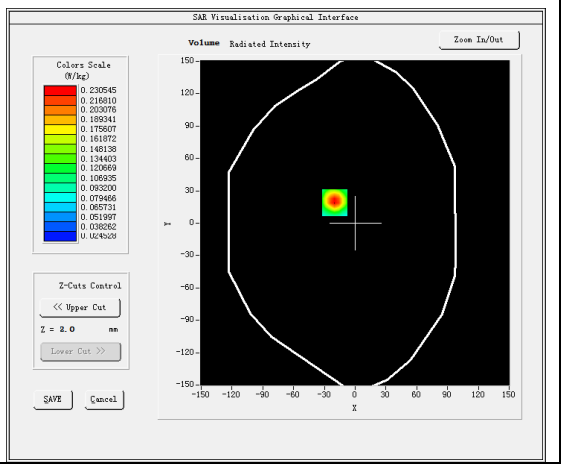
Date of measurement: 6/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

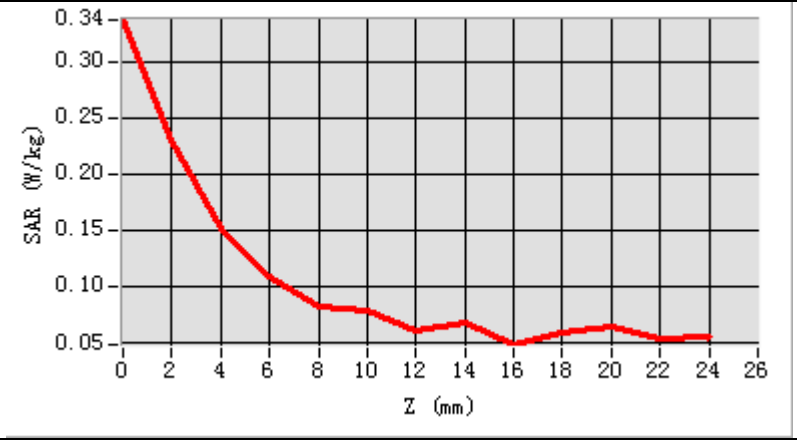
Frequency (MHz)	5280.000000
Relative permittivity (real part)	49.590342
Relative permittivity (imaginary part)	18.260668
Conductivity (S/m)	5.356463
Variation (%)	3.060000

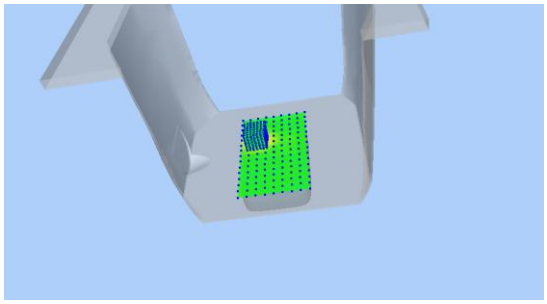
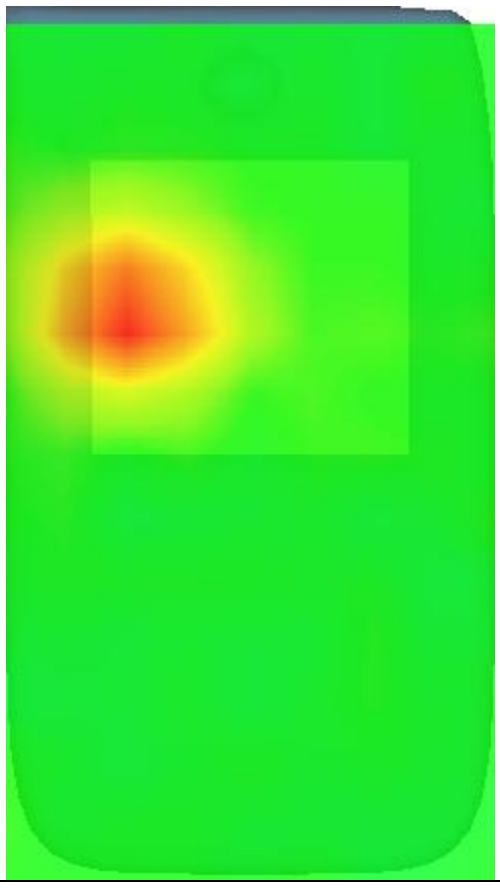
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-20.00, Y=19.00
SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.092950
SAR 1g (W/Kg)	0.158177

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.3372	0.2305	0.1516	0.1090	0.0829	0.0781	0.0614	0.0683	0.0487	0.0597	0.0645	0.0545



3D screen shot	Hot spot position
	

MEASUREMENT 31

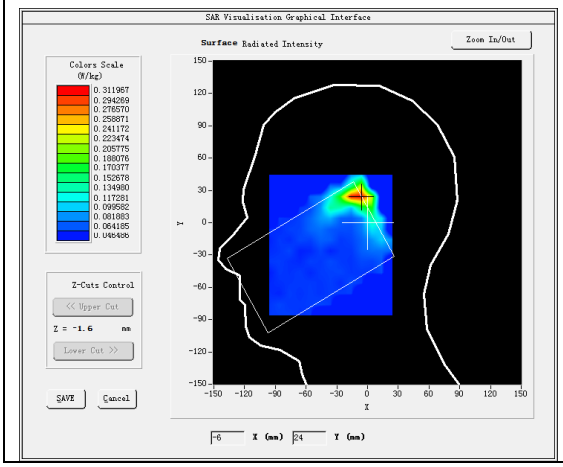
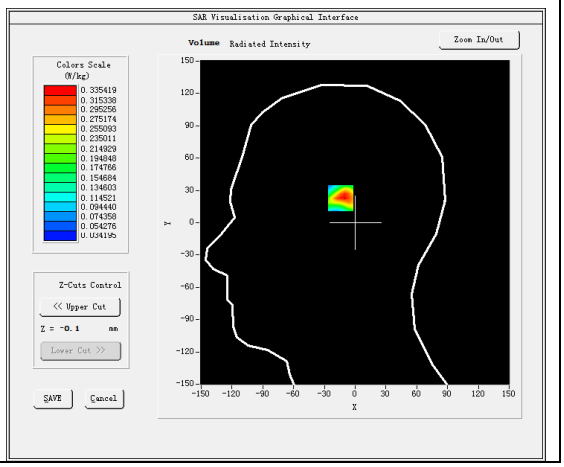
Date of measurement: 11/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5590.000000
Relative permittivity (real part)	35.596279
Relative permittivity (imaginary part)	16.086042
Conductivity (S/m)	4.995610
Variation (%)	-1.640000

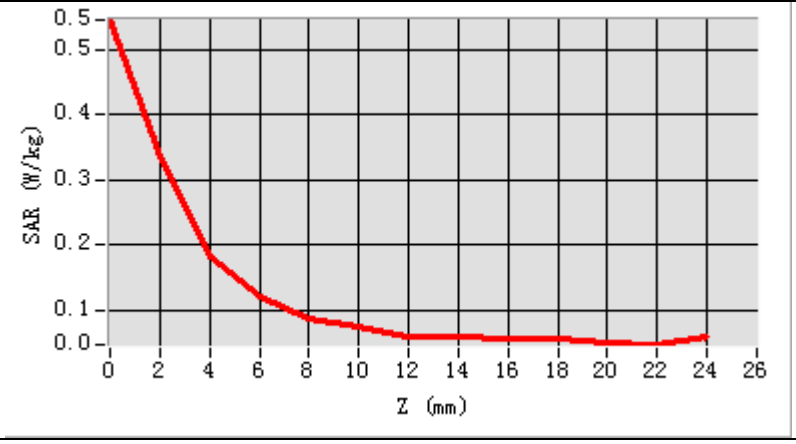
SURFACE SAR	VOLUME SAR
	

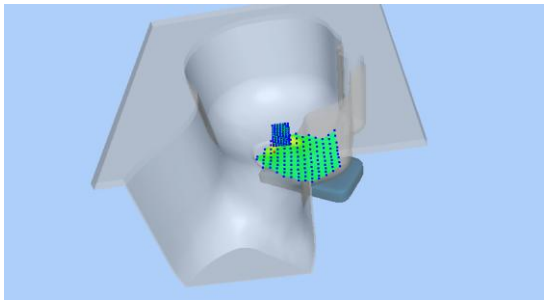
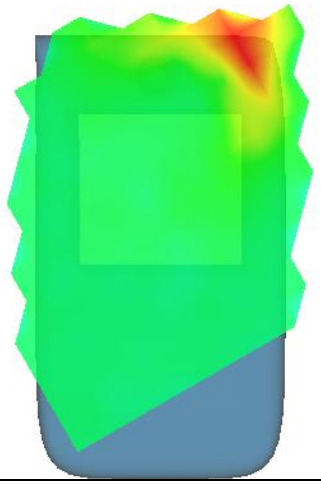
Maximum location: X=-12.00, Y=25.00

SAR Peak: 0.83 W/kg

SAR 10g (W/Kg)	0.151735
SAR 1g (W/Kg)	0.335529

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.5458	0.3354	0.1823	0.1216	0.0864	0.0754	0.0596	0.0600	0.0559	0.0552	0.0498	0.0471



3D screen shot	Hot spot position
	

MEASUREMENT 32

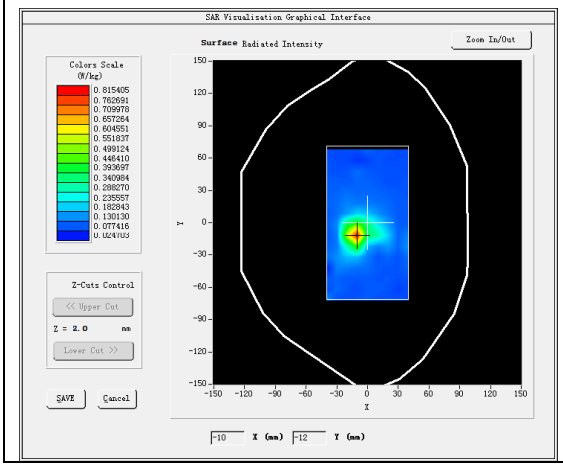
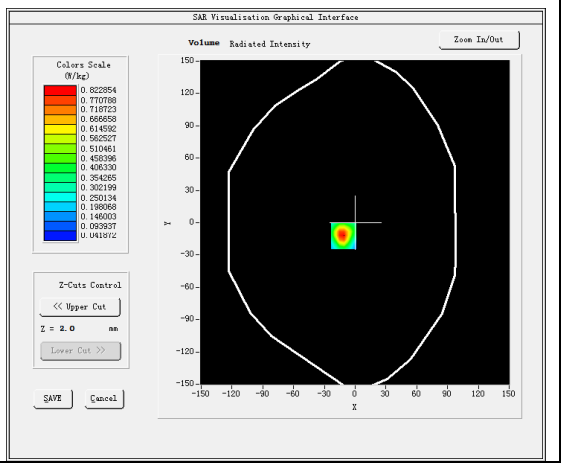
Date of measurement: 6/11/2020

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5590.000000
Relative permittivity (real part)	49.823835
Relative permittivity (imaginary part)	18.031932
Conductivity (S/m)	5.599917
Variation (%)	-2.100000

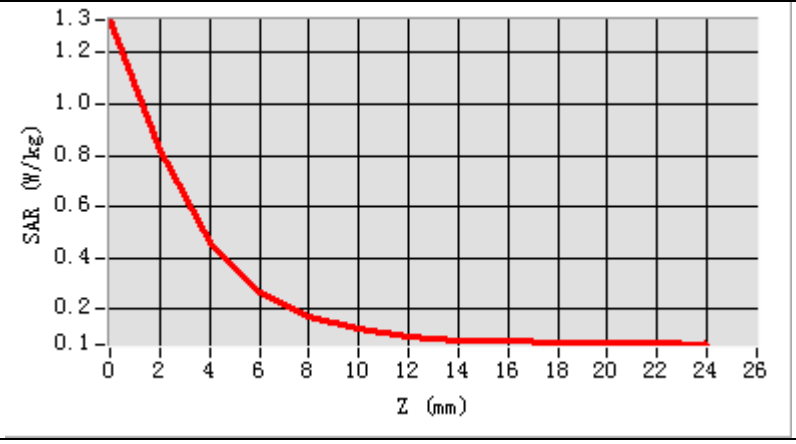
SURFACE SAR	VOLUME SAR
	

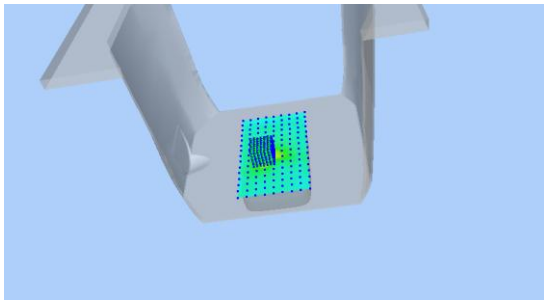
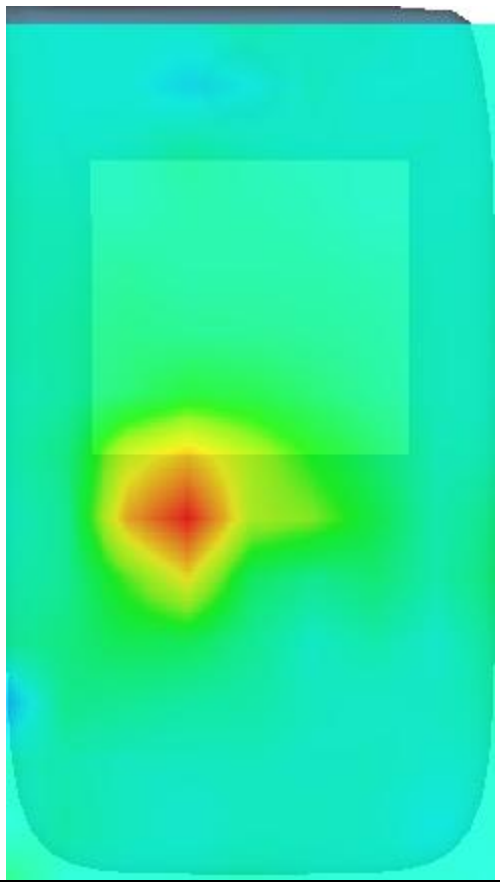
Maximum location: X=-11.00, Y=-12.00

SAR Peak: 1.42 W/kg

SAR 10g (W/Kg)	0.208175
SAR 1g (W/Kg)	0.444062

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.3282	0.8229	0.4629	0.2665	0.1747	0.1210	0.0956	0.0740	0.0773	0.0716	0.0697	0.0670



3D screen shot	Hot spot position
	

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
Extended Calibration Certificate