

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 : Tablet

Trademark : CLOUD MOBILE

Model Name : Sunshine T1 ELITE

Family Model : N/A

Report No. : STR210826001008E

FCC ID : 2AY6A-T1ELITE

Prepared for

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TEST RESULT CERTIFICATION**Applicant's name**.....: Cloud Mobile Holding LLC

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Manufacturer's Name.....: Cloud Mobile Holding LLC

Address.....: 1149 S. HILL ST. SUITE H400, LOS ANGELES, CA 90015

Product description

Product name.....: Tablet

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Family Model.....: N/A

FCC 47 CFR Part 2(2.1093)

ANSI/IEEE C95.1-1992

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

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Date of Test

Date (s) of performance of tests.....: Aug. 28, 2021 ~ Sep. 13, 2021

Date of Issue.....: Sep. 22, 2021

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

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TABLE OF CONTENTS

1. General Information	6
1.1. RF exposure limits.....	6
1.2. Statement of Compliance	7
1.3. EUT Description	7
1.4. Test specification(s)	9
1.5. Ambient Condition.....	9
2. SAR Measurement System	10
2.1. SATIMO SAR Measurement Set-up Diagram	10
2.2. Robot	11
2.3. E-Field Probe.....	12
2.3.1. E-Field Probe Calibration	12
2.4. SAM phantoms	13
2.4.1. Technical Data	14
2.5. Device Holder	15
2.6. Test Equipment List	16
3. SAR Measurement Procedures	18
3.1. Power Reference	18
3.2. Area scan & Zoom scan.....	18
3.3. Description of interpolation/extrapolation scheme	20
3.4. Volumetric Scan	20
3.5. Power Drift	20
4. System Verification Procedure	21
4.1. Tissue Verification	21
4.1.1. Tissue Dielectric Parameter Check Results	22
4.2. System Verification Procedure	23
4.2.1. System Verification Results	24
5. SAR Measurement variability and uncertainty	25
5.1. SAR measurement variability.....	25
5.2. SAR measurement uncertainty	25
6. RF Exposure Positions	26
6.1. Tablet host platform exposure conditions.....	26
7. RF Output Power	27
7.1. GSM Conducted Power	27
7.2. WCDMA Conducted Power	28
7.3. LTE Conducted Power	29
7.4. WLAN & Bluetooth Output Power	48
7.4.1. Output Power Results Of WLAN	48
7.4.2. Output Power Results Of Bluetooth.....	49
8. Antenna Location.....	49

9. Stand-alone SAR test exclusion.....	60
10. SAR Results	61
10.1. SAR measurement results	61
10.1.1. SAR measurement Result of GSM850.....	61
10.1.2. SAR measurement Result of GSM1900.....	61
10.1.3. SAR measurement Result of WCDMA Band 2.....	62
10.1.4. SAR measurement Result of WCDMA Band 4.....	63
10.1.5. SAR measurement Result of WCDMA Band 5.....	64
10.1.6. SAR measurement Result of LTE Band 2	64
10.1.7. SAR measurement Result of LTE Band 4	66
10.1.8. SAR measurement Result of LTE Band 5	67
10.1.9. SAR measurement Result of LTE Band 7	69
10.1.10. SAR measurement Result of LTE Band 12	71
10.1.11. SAR measurement Result of LTE Band 17	72
10.1.12. SAR measurement Result of LTE Band 41	73
10.1.13. SAR measurement Result of LTE Band 66	75
10.1.14. SAR measurement Result of LTE Band 71	77
10.1.15. SAR measurement Result of WLAN 2.4G	78
10.1.16. SAR measurement Result of WLAN 5.2G	79
10.1.17. SAR measurement Result of WLAN 5.8G	80
10.2. SAR Summation Scenario.....	80
11. Appendix A. Photo documentation	82
12. Appendix B. System Check Plots.....	82
13. Appendix C. Plots of High SAR Measurement.....	99
14. Appendix D. Calibration Certificate	168

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 Sunshine T1 ELITE are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Head		0.299	0.441	0.214	N/A
1-g Body (Separation distance of 0mm)		1.171	0.144	0.326	N/A
Max Simultaneous Tx	Head	0.740	0.740	0.513	0.332
	Body	1.497	1.315	1.497	1.188

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	Tablet		
Trade Name	CLOUD MOBILE		
Model Name	Sunshine T1 ELITE		
Family Model	N/A		
FCC ID	2AY6A-T1ELITE		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna	PIFA Antenna		
Battery Information	DC 3.7V, 3500mAh		
HW Version	AL-MT8765-863-V1.0-EP		
SW Version	Sunshine_T1_Elite_v1.0		
Device Operating Configurations			
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/17/41/66/71, WLAN 2.4G/5G, Bluetooth		
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK)		
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
	LTE Band 41	2496-2690	
	LTE Band 66	1710-1780	2110-2200
	LTE Band 71	663-698	617-652
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
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)		
	3, tested with power control all Max.(LTE Band 41)		
	3, tested with power control all Max.(LTE Band 66)		
	3, tested with power control all Max.(LTE Band 71)		

1.4. Test specification(s)

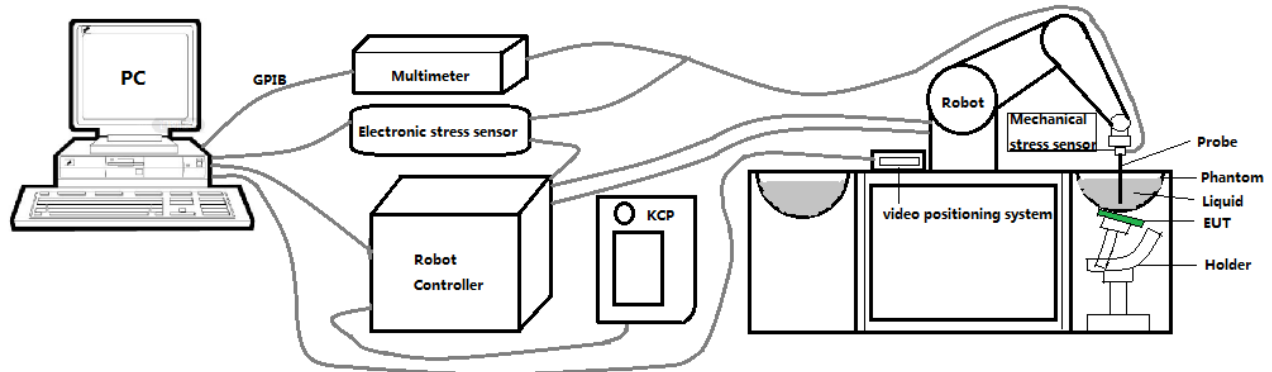
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 616217 D04 SAR for laptop and tablets

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: ± 0.01 dB
- Hemispherical Isotropy: ± 0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

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

2.4. SAM phantoms

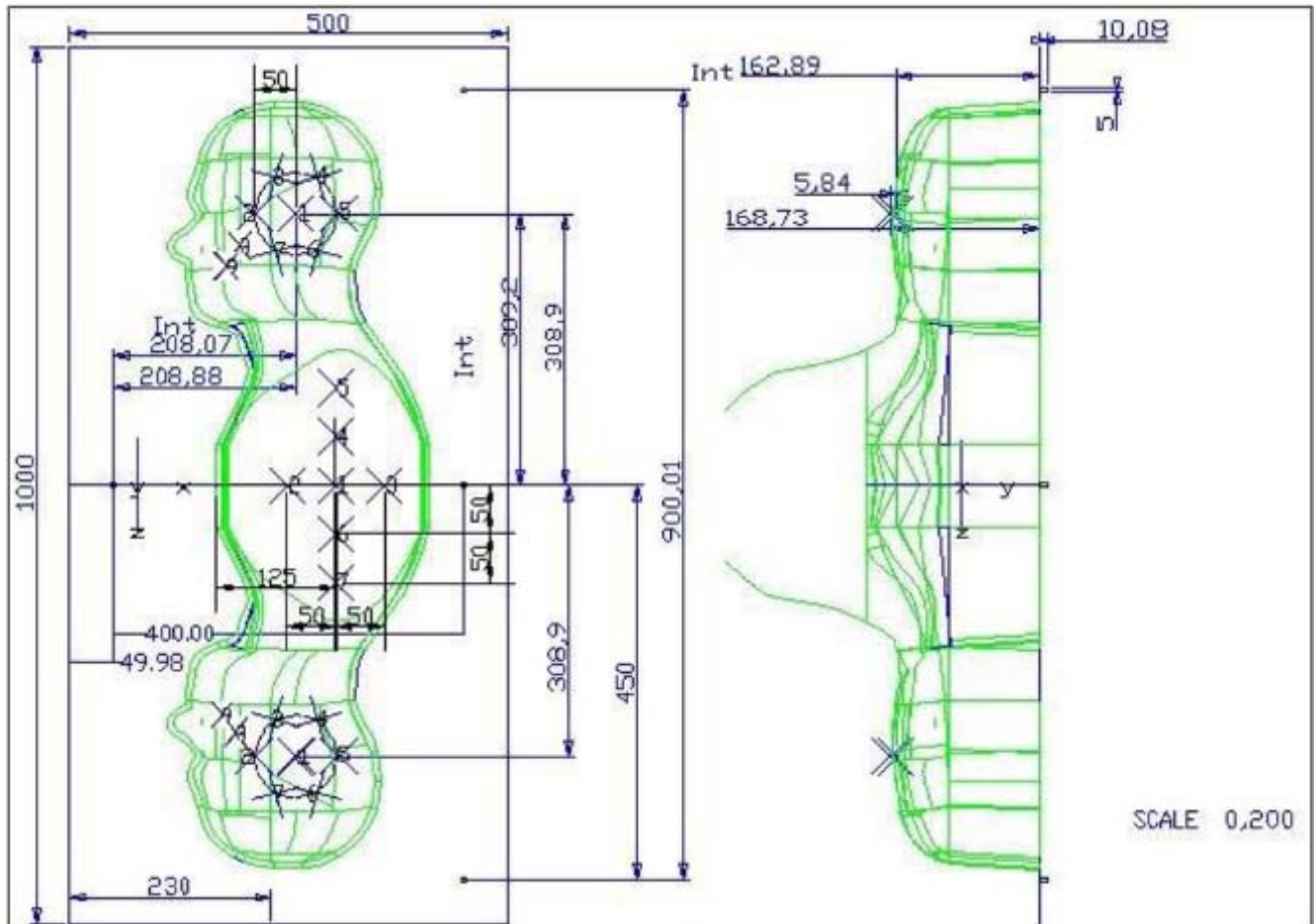
Photo of SAM phantom SN 16/15 SAM119



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

2.4.1. Technical Data

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

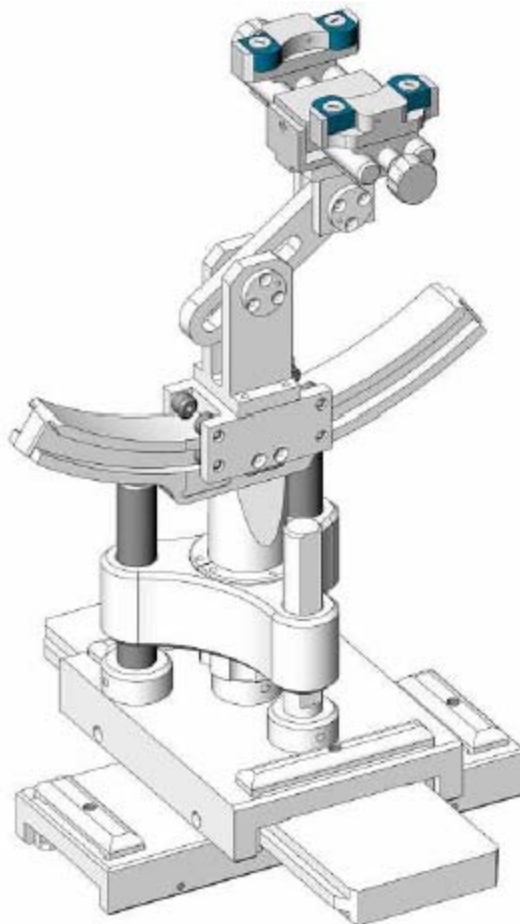


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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

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	Mar. 01, 2021	Feb. 28, 2022
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
☒	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. 01, 2021	Jun. 30, 2022
☒	R&S	Wideband radio communication tester	CMW500	103917	Jul. 01, 2021	Jun. 30, 2022
☒	HP	Network Analyzer	8753D	3410J01136	Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 01, 2021	Jun. 30, 2022

☒	Agilent	Power meter	E4419B	MY45102538	Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	Power sensor	E9301A	MY41495644	Jul. 01, 2021	Jun. 30, 2022
☒	Agilent	Power sensor	E9301A	US39212148	Jul. 01, 2021	Jun. 30, 2022
☒	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.

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

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

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

3.3. Description of interpolation/extrapolation scheme

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

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

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

3.4. Volumetric Scan

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

3.5. Power Drift

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

4. System Verification Procedure

4.1. Tissue Verification

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

Ingredients (% of weight)	Head Tissue									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

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

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

4.1.1. Tissue Dielectric Parameter Check Results

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

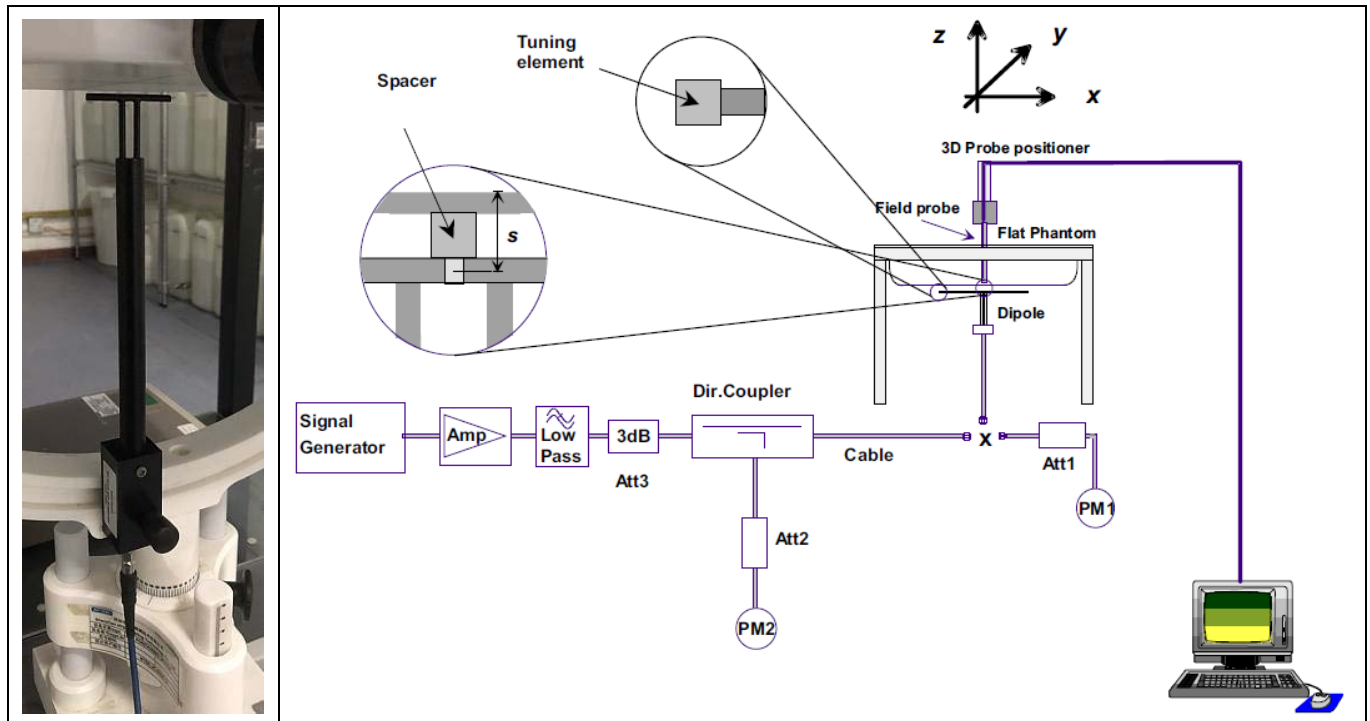
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.97	0.89	21.5 °C	Sep. 03, 2021
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	43.17	0.89	21.5 °C	Sep. 13, 2021
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.85	1.39	21.7 °C	Sep. 02, 2021
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.82	1.44	21.5 °C	Sep. 06, 2021
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.96	1.81	21.5 °C	Aug. 29, 2021
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.68	1.96	21.4 °C	Sep. 08, 2021
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	37.40	4.67	21.5 °C	Sep. 12, 2021
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	36.22	5.21	21.9 °C	Aug. 28, 2021

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

4.2. System Verification Procedure

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

The system verification is shown as below picture:



4.2.1. System Verification Results

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

System Verification	Target SAR (1W) ($\pm 10\%$)		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	8.53 (7.68~9.38)	5.56 (5.01~6.11)	8.54	5.47	21.5 °C	Sep. 03, 2021
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	9.91	6.77	21.5 °C	Sep. 13, 2021
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	36.70	19.27	21.7 °C	Sep. 02, 2021
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	39.49	19.16	21.5 °C	Sep. 06, 2021
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	54.51	24.42	21.5 °C	Aug. 29, 2021
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	53.00	24.46	21.4 °C	Sep. 08, 2021
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	165.97	58.03	21.5 °C	Sep. 12, 2021
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	185.65	60.97	21.9 °C	Aug. 28, 2021

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

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

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

5.2. SAR measurement uncertainty

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

6. RF Exposure Positions

6.1. Tablet host platform exposure conditions

Refer to KDB616217 D04, when the modular approach is used, transmitters and modules must be initially tested for standalone operations in generic host conditions according to the following minimum test separation distance and antenna installation requirements for incorporation in the tablet platform. The separation distance required for incorporation in qualified hosts is described in KDB 447498; item 5) of section 4.1 and item 1) of section 5.2.2 etc.

- ≤ 5 mm between the antenna and user for both back surface and edge exposure conditions
- the antennas used by the host must have been tested for equipment approval or qualify for SAR test exclusion
- the antenna polarization, physical orientation, rotation and installation configurations used by the host must have been tested for compliance or qualify for test exclusion
- when the *SAR Test Exclusion Threshold* in KDB 447498 applies, a *test separation distance* of 5 mm is required to determine test exclusion for the tablet platform

The antennas embedded in tablets are typically ≤ 5 mm from the outer housing. The required antenna to user test separation distance is a “not to exceed test” distance required to apply the modular approach. Instead of the typical zero gap tablet edge test requirement between the edge of a tablet and the user, when an antenna has been tested at ≤ 5 mm according to the modular approach it can be incorporated into tablets with at least twice the tested distance from the outer housing of the tablet edge; otherwise, the tablet edge zero gap test requirement applies. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom.

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)	32.00	31.82	32.00	31.90	22.97	22.79	22.97	22.87
GPRS(GMSK, 1 TS)	32.00	31.79	31.99	31.89	22.97	22.76	22.96	22.86
GPRS(GMSK, 2 TS)	31.50	30.93	31.22	31.01	25.48	24.91	25.20	24.99
GPRS(GMSK, 3 TS)	29.50	28.95	29.30	29.07	25.24	24.69	25.04	24.81
GPRS(GMSK, 4 TS)	28.50	27.74	28.15	27.88	25.49	24.73	25.14	24.87
EDGE(GMSK, 1 TS)	30.00	29.63	29.35	29.28	20.97	20.60	20.32	20.25
EDGE(GMSK, 2 TS)	29.00	28.58	28.15	28.86	22.98	22.56	22.13	22.84
EDGE(GMSK, 3 TS)	26.50	26.37	26.34	26.30	22.24	22.11	22.08	22.04
EDGE(GMSK, 4 TS)	25.00	24.92	24.54	24.85	21.99	21.91	21.53	21.84
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)	27.50	27.08	26.76	26.77	18.47	18.05	17.73	17.74
GPRS(GMSK, 1 TS)	27.50	27.10	26.78	26.75	18.47	18.07	17.75	17.72
GPRS(GMSK, 2 TS)	26.50	26.26	25.89	25.84	20.48	20.24	19.87	19.82
GPRS(GMSK, 3 TS)	24.50	24.44	24.00	23.96	20.24	20.18	19.74	19.70
GPRS(GMSK, 4 TS)	23.50	23.17	22.75	22.57	20.49	20.16	19.74	19.56
EDGE(GMSK, 1 TS)	29.00	28.64	28.30	27.63	19.97	19.61	19.27	18.60
EDGE(GMSK, 2 TS)	28.50	28.25	27.49	26.67	22.48	22.23	21.47	20.65
EDGE(GMSK, 3 TS)	26.50	26.40	26.06	25.41	22.24	22.14	21.80	21.15
EDGE(GMSK, 4 TS)	25.50	25.27	24.78	24.26	22.49	22.26	21.77	21.25

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

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	20.50	20.02	20.14	19.93
HSDPA Sub 1	19.50	19.04	19.16	18.95
HSDPA Sub 2	19.00	18.66	18.89	18.50
HSDPA Sub 3	18.00	17.71	17.70	17.46
HSDPA Sub 4	18.00	17.60	17.72	17.38
HSUPA Sub 1	19.00	18.10	19.00	18.77
HSUPA Sub 2	19.50	18.99	19.12	18.86
HSUPA Sub 3	18.00	17.32	17.76	17.72
HSUPA Sub 4	19.50	19.04	19.15	18.95
HSUPA Sub 5	19.00	17.84	18.59	18.17
HSUPA+ Sub 1	19.50	17.92	19.03	18.72
HSUPA+ Sub 2	19.50	19.00	19.20	18.68
HSUPA+ Sub 3	18.00	17.44	17.84	17.63
HSUPA+ Sub 4	19.50	19.04	19.24	18.96
HSUPA+ Sub 5	18.50	17.76	18.25	18.33
WCDMA Band 4	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	21.50	21.28	20.96	20.87
HSDPA Sub 1	20.50	20.29	19.98	19.87
HSDPA Sub 2	20.00	20.00	19.68	19.23
HSDPA Sub 3	19.00	18.69	18.67	18.31
HSDPA Sub 4	19.00	18.81	18.11	18.38
HSUPA Sub 1	20.00	19.04	19.80	19.66
HSUPA Sub 2	20.50	20.16	19.78	19.69
HSUPA Sub 3	19.00	18.53	18.74	18.34
HSUPA Sub 4	20.50	20.33	19.97	19.88
HSUPA Sub 5	19.50	18.82	19.22	19.20
HSUPA+ Sub 1	20.00	18.89	19.65	19.69
HSUPA+ Sub 2	20.50	20.07	19.71	19.83
HSUPA+ Sub 3	19.00	18.25	18.80	18.66
HSUPA+ Sub 4	20.50	20.20	19.89	19.83

HSUPA+ Sub 5	19.50	18.65	19.41	18.99
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	22.00	21.35	21.53	21.56
HSDPA Sub 1	21.00	20.35	20.54	20.58
HSDPA Sub 2	20.50	19.95	20.21	19.89
HSDPA Sub 3	19.50	18.56	18.56	19.04
HSDPA Sub 4	19.50	18.55	19.03	19.21
HSUPA Sub 1	20.50	19.47	20.39	20.37
HSUPA Sub 2	21.00	20.21	20.45	20.52
HSUPA Sub 3	19.50	18.91	19.05	19.30
HSUPA Sub 4	21.00	20.39	20.52	20.57
HSUPA Sub 5	20.00	19.17	19.42	20.00
HSUPA+ Sub 1	20.50	19.19	20.40	20.44
HSUPA+ Sub 2	20.50	20.22	20.49	20.41
HSUPA+ Sub 3	20.00	18.60	19.30	19.66
HSUPA+ Sub 4	21.00	20.45	20.61	20.62
HSUPA+ Sub 5	20.50	19.01	19.98	20.19

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	21.50	19.87	20.74	20.63
			1	2	21.50	20.95	20.88	20.75
			1	5	21.50	20.80	20.75	20.66
			3	0	21.00	20.83	20.79	20.61
			3	1	21.00	20.81	20.80	20.65
			3	2	21.00	20.83	20.80	20.64
			6	0	20.00	19.88	19.81	19.69
		16QAM	1	0	20.50	20.00	19.93	19.45
			1	2	20.50	20.15	20.06	19.55
			1	5	20.50	19.98	19.88	19.43
			3	0	20.50	20.04	19.97	19.76
			3	1	20.50	20.05	20.00	19.76
			3	2	20.50	20.04	20.00	19.77

			6	0	19.00	19.00	18.96	18.84
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	21.50	20.96	20.85	20.76
			1	7	21.50	21.18	21.17	21.04
			1	14	21.50	20.84	20.89	20.78
			8	0	20.00	19.94	19.82	19.72
			8	4	20.00	19.95	19.89	19.77
			8	7	20.00	19.89	19.87	19.71
			15	0	20.00	19.86	19.84	19.68
		16QAM	1	0	21.00	20.35	20.00	19.60
			1	7	21.00	20.63	20.26	19.86
			1	14	21.00	20.26	19.99	19.60
			8	0	19.00	18.90	18.82	18.71
			8	4	19.00	18.92	18.92	18.74
			8	7	19.00	18.88	18.86	18.70
			15	0	19.00	18.88	18.78	18.74
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	21.50	20.73	20.69	20.52
			1	12	21.50	21.04	21.08	20.92
			1	24	21.50	20.60	20.72	20.53
			12	0	20.00	19.81	19.76	19.62
			12	6	20.00	19.82	19.84	19.67
			12	11	20.00	19.75	19.75	19.57
			25	0	20.00	19.78	19.77	19.60
		16QAM	1	0	20.50	20.30	19.93	19.81
			1	12	20.50	20.37	20.32	20.21
			1	24	20.50	20.20	19.99	19.79
			12	0	19.00	18.79	18.70	18.66
			12	6	19.00	18.81	18.80	18.70
			12	11	19.00	18.72	18.72	18.59
			25	0	19.00	18.72	18.78	18.57
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB	RB		18650/1855	18900/1880	19150/1905

			Size	Offset				
LTE Band 2	10MHz	QPSK	1	0	21.50	20.81	20.75	20.69
			1	24	21.50	20.91	20.99	20.83
			1	49	21.50	20.66	20.77	20.62
			25	0	20.00	19.90	19.87	19.79
			25	12	20.00	19.79	19.85	19.69
			25	24	20.00	19.86	19.83	19.67
			50	0	20.00	19.85	19.85	19.73
		16QAM	1	0	20.50	20.00	19.56	20.01
			1	24	20.50	20.05	19.80	20.15
			1	49	20.50	19.76	19.61	19.91
			25	0	19.00	18.81	18.86	18.77
			25	12	19.00	18.74	18.81	18.70
			25	24	19.00	18.78	18.82	18.68
			50	0	19.00	18.85	18.79	18.68
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	21.50	20.62	20.61	20.59
			1	37	21.50	20.82	21.03	20.81
			1	74	21.50	20.46	20.60	20.40
			36	0	20.00	19.80	19.79	19.77
			36	18	20.00	19.75	19.81	19.69
			36	37	20.00	19.69	19.79	19.63
			75	0	20.00	19.76	19.82	19.69
		16QAM	1	0	20.50	20.07	19.68	19.67
			1	37	20.50	20.30	20.11	20.05
			1	74	20.50	19.82	19.74	19.51
			36	0	19.00	18.80	18.86	18.71
			36	18	19.00	18.74	18.89	18.66
			36	37	19.00	18.72	18.86	18.61
			75	0	19.00	18.72	18.80	18.69
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	21.50	20.46	20.44	20.50
			1	49	21.50	20.76	20.88	20.85
			1	99	21.50	20.32	20.44	20.34

			50	0	20.00	19.82	19.84	19.88
			50	24	20.00	19.65	19.75	19.68
			50	49	20.00	19.69	19.78	19.65
			100	0	20.00	19.71	19.77	19.73
		16QAM	1	0	20.50	19.83	19.61	19.68
			1	49	20.50	20.05	20.10	20.03
			1	99	20.50	19.61	19.64	19.52
			50	0	19.00	18.83	18.81	18.90
			50	24	19.00	18.72	18.75	18.72
			50	49	19.00	18.76	18.78	18.70
			100	0	19.00	18.77	18.79	18.74

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	22.00	21.78	21.44	21.48
			1	2	22.00	21.93	21.60	21.61
			1	5	22.00	21.78	21.47	21.48
			3	0	22.00	21.81	21.55	21.33
			3	1	22.00	21.85	21.51	21.31
			3	2	22.00	21.81	21.50	21.34
			6	0	21.00	20.90	20.56	20.51
		16QAM	1	0	21.00	20.89	20.42	20.35
			1	2	21.00	20.99	20.53	20.44
			1	5	21.00	20.89	20.39	20.36
			3	0	21.50	21.01	20.69	20.45
			3	1	21.50	21.01	20.75	20.43
			3	2	21.50	21.02	20.79	20.40
			6	0	20.00	19.96	19.63	19.47
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	22.00	21.93	21.58	21.55
			1	7	22.00	22.00	22.00	21.83
			1	14	22.00	21.87	21.53	21.53
			8	0	21.00	20.98	20.60	20.57
			8	4	21.00	20.97	20.64	20.58
			8	7	21.00	20.95	20.62	20.53

			15	0	21.00	20.88	20.58	20.44
		16QAM	1	0	22.00	21.22	20.79	20.23
			1	7	22.00	21.61	21.16	20.47
			1	14	22.00	21.15	20.73	20.20
			8	0	20.00	19.90	19.60	19.42
			8	4	20.00	19.91	19.60	19.44
			8	7	20.00	19.88	19.55	19.37
			15	0	20.00	19.83	19.54	19.39
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	22.00	21.73	21.42	21.28
			1	12	22.00	22.00	21.79	21.81
			1	24	22.00	21.73	21.42	21.32
			12	0	21.00	20.84	20.48	20.42
			12	6	21.00	20.86	20.57	20.43
			12	11	21.00	20.76	20.52	20.32
			25	0	21.00	20.85	20.53	20.37
		16QAM	1	0	21.50	21.15	20.78	20.50
			1	12	21.50	21.49	21.18	20.86
			1	24	21.50	21.14	20.77	20.43
			12	0	20.00	19.83	19.48	19.35
			12	6	20.00	19.81	19.53	19.37
			12	11	20.00	19.71	19.45	19.30
			25	0	20.00	19.76	19.53	19.25
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	22.00	21.76	21.48	21.34
			1	24	22.00	21.93	21.63	21.52
			1	49	22.00	21.68	21.38	21.38
			25	0	21.50	21.01	20.60	20.46
			25	12	21.50	20.85	20.60	20.41
			25	24	21.50	20.79	20.64	20.35
			50	0	21.00	20.87	20.65	20.37
		16QAM	1	0	21.50	21.09	20.76	20.19
			1	24	21.50	21.27	20.87	20.27
			1	49	21.50	21.08	20.58	20.06

			25	0	20.00	19.96	19.60	19.39
			25	12	20.00	19.83	19.55	19.34
			25	24	20.00	19.76	19.66	19.31
			50	0	20.00	19.84	19.65	19.30
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	22.00	21.59	21.47	21.17
			1	37	22.00	21.92	21.85	21.44
			1	74	22.00	21.38	21.19	21.18
			36	0	21.00	20.99	20.58	20.43
			36	18	21.00	20.85	20.53	20.42
			36	37	21.00	20.72	20.56	20.40
			75	0	21.00	20.85	20.61	20.47
		16QAM	1	0	21.50	20.70	20.91	20.42
			1	37	21.50	21.12	21.21	20.61
			1	74	21.50	20.60	20.66	20.21
			36	0	20.00	19.88	19.62	19.43
			36	18	20.00	19.80	19.56	19.43
			36	37	20.00	19.69	19.61	19.36
			75	0	20.00	19.85	19.53	19.34
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	22.00	21.45	21.34	21.07
			1	49	22.00	21.82	21.59	21.54
			1	99	22.00	21.25	21.06	21.14
			50	0	21.50	21.05	20.66	20.42
			50	24	21.50	20.77	20.54	20.37
			50	49	21.50	20.72	20.67	20.32
			100	0	21.00	20.89	20.68	20.38
		16QAM	1	0	21.50	20.70	20.63	20.38
			1	49	21.50	21.14	20.90	20.68
			1	99	21.50	20.63	20.39	20.17
			50	0	20.50	20.04	19.67	19.45
			50	24	20.50	19.75	19.51	19.40
			50	49	20.50	19.76	19.63	19.30
			100	0	20.00	19.89	19.65	19.37

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	22.50	21.77	21.95	21.94
			1	2	22.50	21.88	22.08	22.08
			1	5	22.50	21.77	21.96	21.95
			3	0	22.50	21.82	22.00	22.07
			3	1	22.50	21.80	22.02	22.06
			3	2	22.50	21.79	22.00	22.06
			6	0	21.50	20.87	21.01	20.99
		16QAM	1	0	21.50	20.68	21.08	21.13
			1	2	21.50	20.81	21.14	21.27
			1	5	21.50	20.70	21.07	21.14
			3	0	21.50	21.01	21.15	21.29
			3	1	21.50	21.02	21.23	21.28
			3	2	21.50	21.04	21.19	21.28
			6	0	20.50	19.98	20.16	20.22
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	22.50	21.89	22.02	22.12
			1	7	22.50	22.20	22.28	22.46
			1	14	22.50	21.89	22.05	22.12
			8	0	21.50	20.94	21.14	21.10
			8	4	21.50	20.90	21.16	21.16
			8	7	21.50	20.95	21.10	21.10
			15	0	21.50	20.90	21.07	21.06
		16QAM	1	0	22.00	21.32	21.24	20.99
			1	7	22.00	21.58	21.48	21.09
			1	14	22.00	21.37	21.23	20.94
			8	0	20.50	19.94	20.08	20.12
			8	4	20.50	19.97	20.08	20.18
			8	7	20.50	19.97	20.03	20.11
			15	0	20.50	19.94	20.02	20.22
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB	RB		20425/826.5	20525/836.5	20625/846.5

Band	Band Width	Modulation	Size	Offset	Tune-up	Channel/Frequency(MHz)		
LTE Band 5	5MHz	QPSK	1	0	22.50	21.68	21.83	21.91
			1	12	22.50	22.15	22.33	22.31
			1	24	22.50	21.77	21.88	21.90
			12	0	21.50	20.77	21.01	20.97
			12	6	21.50	20.86	21.03	21.04
			12	11	21.50	20.88	20.94	20.94
			25	0	21.50	20.86	21.01	21.02
		16QAM	1	0	22.00	21.25	21.18	21.20
			1	12	22.00	21.71	21.54	21.59
			1	24	22.00	21.33	21.21	21.16
			12	0	20.50	19.78	19.98	20.09
			12	6	20.50	19.92	19.98	20.16
			12	11	20.50	19.89	19.90	20.04
			25	0	20.50	19.83	20.00	20.02
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	22.50	21.73	21.88	21.96
			1	24	22.50	22.01	22.09	22.14
			1	49	22.50	21.89	21.93	22.00
			25	0	21.50	20.93	21.13	21.09
			25	12	21.50	20.97	21.07	21.09
			25	24	21.50	21.06	21.03	21.04
			50	0	21.50	20.93	21.12	21.06
		16QAM	1	0	21.50	21.20	21.10	20.79
			1	24	21.50	21.44	21.26	21.01
			1	49	21.50	21.31	21.06	20.83
			25	0	20.50	19.93	20.15	20.14
			25	12	20.50	19.96	20.04	20.16
			25	24	20.50	20.01	20.01	20.10
			50	0	20.50	19.95	20.14	20.11

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	5MHz	QPSK	1	0	21.00	19.80	20.24	20.56
			1	12	21.00	20.20	20.74	20.97

7			1	24	21.00	19.84	20.31	20.63
			12	0	20.00	18.85	19.39	19.65
			12	6	20.00	18.92	19.38	19.69
			12	11	20.00	18.91	19.32	19.63
			25	0	20.00	18.94	19.36	19.65
		16QAM	1	0	20.50	19.34	19.56	19.83
			1	12	20.50	19.81	20.03	20.28
			1	24	20.50	19.42	19.63	19.95
			12	0	19.00	17.98	18.37	18.71
			12	6	19.00	18.04	18.42	18.79
			12	11	19.00	17.98	18.33	18.70
			25	0	19.00	17.94	18.45	18.70
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	21.00	19.84	20.22	20.59
			1	24	21.00	20.11	20.52	20.82
			1	49	21.00	20.01	20.36	20.72
			25	0	20.00	18.98	19.43	19.73
			25	12	20.00	19.01	19.46	19.69
			25	24	20.00	19.09	19.43	19.65
			50	0	20.00	19.05	19.42	19.70
		16QAM	1	0	20.00	19.28	19.41	19.41
			1	24	20.00	19.53	19.64	19.64
			1	49	20.00	19.39	19.57	19.54
			25	0	19.00	18.02	18.51	18.79
			25	12	19.00	18.11	18.50	18.73
			25	24	19.00	18.19	18.48	18.68
			50	0	19.00	18.10	18.54	18.70
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	21.00	19.71	20.16	20.36
			1	37	21.00	20.32	20.77	20.81
			1	74	21.00	19.86	20.32	20.54
			36	0	20.00	18.93	19.38	19.64
			36	18	20.00	19.01	19.41	19.60
			36	37	20.00	19.06	19.35	19.58

			75	0	20.00	19.02	19.41	19.59
		16QAM	1	0	20.50	18.81	19.53	19.52
			1	37	20.50	19.43	20.10	19.98
			1	74	20.50	19.00	19.72	19.68
			36	0	19.00	17.94	18.45	18.73
			36	18	19.00	18.05	18.49	18.74
			36	37	19.00	18.02	18.45	18.71
			75	0	19.00	18.04	18.40	18.67
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	21.00	19.63	19.96	20.16
			1	49	21.00	20.19	20.52	20.74
			1	99	21.00	19.84	20.16	20.45
			50	0	20.00	18.93	19.44	19.68
			50	24	20.00	19.05	19.41	19.59
			50	49	20.00	19.09	19.40	19.49
			100	0	20.00	19.00	19.39	19.56
		16QAM	1	0	20.00	18.87	19.30	19.47
			1	49	20.00	19.42	19.90	19.94
			1	99	20.00	19.11	19.48	19.67
			50	0	19.00	18.04	18.52	18.72
			50	24	19.00	18.15	18.56	18.60
			50	49	19.00	18.17	18.55	18.51
			100	0	19.00	18.08	18.49	18.60

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	22.17	22.15	22.32
			1	2	23.00	22.28	22.28	22.43
			1	5	23.00	22.16	22.13	22.33
			3	0	22.50	22.20	22.21	22.31
			3	1	22.50	22.19	22.21	22.32
			3	2	22.50	22.19	22.18	22.32
			6	0	21.50	21.20	21.24	21.44
		16QAM	1	0	22.00	21.36	21.40	21.19
			1	2	22.00	21.44	21.52	21.36

			1	5	22.00	21.33	21.41	21.22
			3	0	22.00	21.40	21.53	21.51
			3	1	22.00	21.42	21.53	21.54
			3	2	22.00	21.41	21.54	21.56
			6	0	21.00	20.36	20.35	20.54
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	22.28	22.30	22.34
			1	7	23.00	22.54	22.55	22.70
			1	14	23.00	22.25	22.23	22.43
			8	0	22.00	21.32	21.29	21.46
			8	4	22.00	21.30	21.35	21.51
			8	7	22.00	21.23	21.37	21.46
			15	0	21.50	21.26	21.31	21.47
		16QAM	1	0	22.50	21.19	21.73	21.54
			1	7	22.50	21.23	22.05	21.93
			1	14	22.50	21.16	21.74	21.63
			8	0	20.50	20.24	20.30	20.45
			8	4	20.50	20.26	20.34	20.42
			8	7	20.50	20.18	20.35	20.38
			15	0	20.50	20.27	20.30	20.36
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	22.11	22.06	22.06
			1	12	23.00	22.45	22.43	22.52
			1	24	23.00	22.08	22.09	22.24
			12	0	21.50	21.26	21.18	21.41
			12	6	21.50	21.21	21.28	21.37
			12	11	21.50	21.12	21.33	21.20
			25	0	21.50	21.24	21.30	21.35
		16QAM	1	0	22.50	21.63	21.47	21.45
			1	12	22.50	22.05	21.96	21.94
			1	24	22.50	21.68	21.48	21.59
			12	0	20.50	20.32	20.09	20.44
			12	6	20.50	20.26	20.22	20.41
			12	11	20.50	20.12	20.26	20.20

			25	0	20.50	20.19	20.24	20.31
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	22.05	22.17	22.12
			1	24	23.00	22.30	22.40	22.38
			1	49	23.00	22.16	22.22	22.31
			25	0	21.50	21.47	21.24	21.17
			25	12	21.50	21.27	21.34	21.31
			25	24	21.50	21.46	21.29	21.08
			50	0	21.50	21.42	21.30	21.15
		16QAM	1	0	22.00	21.30	21.00	21.57
			1	24	22.00	21.49	21.28	21.81
			1	49	22.00	21.39	21.10	21.75
			25	0	20.50	20.42	20.22	20.21
			25	12	20.50	20.25	20.26	20.29
			25	24	20.50	20.44	20.28	20.08
			50	0	20.50	20.45	20.24	20.13

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	22.50	22.12	22.12	22.16
			1	12	22.50	22.49	22.49	22.49
			1	24	22.50	22.13	22.20	22.29
			12	0	21.50	21.21	21.16	21.47
			12	6	21.50	21.31	21.29	21.41
			12	11	21.50	21.39	21.15	21.28
			25	0	21.50	21.34	21.21	21.40
		16QAM	1	0	22.50	21.73	21.51	21.48
			1	12	22.50	22.13	21.87	21.92
			1	24	22.50	21.79	21.55	21.64
			12	0	21.00	20.21	20.15	20.51
			12	6	21.00	20.28	20.26	20.44
			12	11	21.00	20.39	20.10	20.26
			25	0	20.50	20.27	20.21	20.36
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	22.50	22.24	22.18	22.14
			1	24	22.50	22.47	22.39	22.40
			1	49	22.50	22.40	22.30	22.33
			25	0	21.50	21.19	21.15	21.22
			25	12	21.50	21.33	21.30	21.35
			25	24	21.50	21.15	21.12	21.15
			50	0	21.50	21.19	21.11	21.19
		16QAM	1	0	22.00	21.10	21.65	21.40
			1	24	22.00	21.33	21.83	21.61
			1	49	22.00	21.17	21.71	21.55
			25	0	20.50	20.14	20.15	20.19
			25	12	20.50	20.27	20.32	20.32
			25	24	20.50	20.15	20.11	20.09
			50	0	20.50	20.12	20.14	20.21

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675/2498.5	40620/2593	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	21.50	19.83	20.78	20.50
			1	12	21.50	20.21	21.13	20.78
			1	24	21.50	19.89	20.79	20.44
			12	0	20.00	18.90	19.88	19.60
			12	6	20.00	18.99	19.92	19.68
			12	11	20.00	18.91	19.82	19.54
			25	0	20.00	18.95	19.89	19.63
		16QAM	1	0	20.50	19.40	20.06	19.87
			1	12	20.50	19.74	20.43	20.16
			1	24	20.50	19.48	20.12	19.83
			12	0	19.00	17.95	18.91	18.64
			12	6	19.00	18.04	18.97	18.74
			12	11	19.00	17.96	18.88	18.65
			25	0	19.00	17.95	18.97	18.57
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39700/2501	40620/2593	41540/2685
LTE	10MHz	QPSK	1	0	21.50	19.84	20.84	20.56

Band 41			1	24	21.50	20.17	21.11	20.80
			1	49	21.50	19.96	20.92	20.56
			25	0	20.50	19.03	20.02	19.74
			25	12	20.50	19.05	20.00	19.73
			25	24	20.50	19.09	19.96	19.65
			50	0	20.00	19.04	20.00	19.73
		16QAM	1	0	21.00	19.01	20.32	19.76
			1	24	21.00	19.08	20.57	19.99
			1	49	21.00	19.01	20.38	19.72
			25	0	19.50	18.05	19.09	18.79
			25	12	19.50	18.08	19.07	18.76
			25	24	19.50	18.13	19.06	18.67
			50	0	19.50	18.06	19.04	18.74
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39725/2503.5	40620/2593	41515/2682.5
LTE Band 41	15MHz	QPSK	1	0	21.50	19.76	20.67	20.50
			1	37	21.50	20.21	21.17	20.85
			1	74	21.50	19.89	20.80	20.34
			36	0	20.00	18.95	19.89	19.68
			36	18	20.00	19.04	19.90	19.67
			36	37	20.00	19.09	19.88	19.53
			75	0	20.00	19.01	19.87	19.65
		16QAM	1	0	21.00	19.01	20.17	19.69
			1	37	21.00	19.43	20.62	20.01
			1	74	21.00	19.08	20.28	19.55
			36	0	19.50	17.95	18.97	18.75
			36	18	19.50	18.06	19.01	18.75
			36	37	19.50	18.08	18.96	18.66
			75	0	19.00	18.08	18.91	18.62
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		39750/2506	40620/2593	41490/2680
LTE Band 41	20MHz	QPSK	1	0	21.50	19.56	20.43	20.33
			1	49	21.50	20.11	21.01	20.77
			1	99	21.50	19.75	20.59	20.24
			50	0	20.00	18.87	19.99	19.83
			50	24	20.00	19.03	19.95	19.67

			50	49	20.00	19.13	19.86	19.54
			100	0	20.00	19.01	19.89	19.68
		16QAM	1	0	20.50	18.78	19.68	19.71
			1	49	20.50	19.36	20.24	20.12
			1	99	20.50	19.01	19.85	19.61
			50	0	19.50	17.94	19.06	18.91
			50	24	19.50	18.07	19.05	18.76
			50	49	19.50	18.18	18.97	18.58
			100	0	19.00	18.08	18.95	18.67

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	22.50	22.06	21.57	21.27
			1	2	22.50	22.18	21.71	21.43
			1	5	22.50	22.05	21.59	21.18
			3	0	22.50	22.09	21.62	21.30
			3	1	22.50	22.10	21.60	21.28
			3	2	22.50	22.09	21.59	21.32
			6	0	21.50	21.19	20.70	20.29
		16QAM	1	0	21.50	21.13	20.41	20.45
			1	2	21.50	21.22	20.57	20.58
			1	5	21.50	21.15	20.42	20.48
			3	0	21.50	21.26	20.76	20.54
			3	1	21.50	21.27	20.78	20.55
			3	2	21.50	21.24	20.78	20.50
			6	0	20.50	20.21	19.78	19.48
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	3MHz	QPSK	1	0	22.50	22.19	21.68	21.37
			1	7	22.50	22.49	21.79	21.70
			1	14	22.50	22.15	21.62	21.38
			8	0	21.50	21.30	20.72	20.37
			8	4	21.50	21.29	20.77	20.42
			8	7	21.50	21.21	20.74	20.39
			15	0	21.50	21.16	20.67	20.38
		16QAM	1	0	21.50	20.98	21.03	20.58

			1	7	21.50	21.21	21.23	20.93
			1	14	21.50	20.89	21.01	20.54
			8	0	20.50	20.13	19.69	19.38
			8	4	20.50	20.13	19.70	19.41
			8	7	20.50	20.11	19.68	19.39
			15	0	20.50	20.13	19.66	19.32
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	22.50	22.00	21.51	21.17
			1	12	22.50	22.30	21.85	21.56
			1	24	22.50	21.93	21.51	21.19
			12	0	21.50	21.11	20.61	20.33
			12	6	21.50	21.11	20.65	20.38
			12	11	21.50	20.98	20.57	20.32
			25	0	21.50	21.07	20.59	20.33
		16QAM	1	0	22.00	21.18	20.98	20.52
			1	12	22.00	21.50	21.34	20.87
			1	24	22.00	21.15	20.94	20.54
			12	0	20.50	20.10	19.58	19.28
			12	6	20.50	20.11	19.65	19.33
			12	11	20.50	19.99	19.57	19.30
			25	0	20.00	20.00	19.53	19.28
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775
LTE Band 66	10MHz	QPSK	1	0	22.50	22.04	21.60	21.31
			1	24	22.50	22.16	21.79	21.42
			1	49	22.50	21.92	21.60	21.25
			25	0	21.50	21.22	20.67	20.41
			25	12	21.50	21.10	20.67	20.38
			25	24	21.50	21.02	20.68	20.42
			50	0	21.50	21.11	20.69	20.39
		16QAM	1	0	21.50	21.13	20.45	20.62
			1	24	21.50	21.27	20.59	20.84
			1	49	21.50	21.07	20.36	20.66
			25	0	20.50	20.18	19.65	19.43
			25	12	20.50	20.03	19.61	19.35

			25	24	20.50	19.96	19.61	19.42
			50	0	20.50	20.11	19.66	19.39
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	22.50	21.89	21.42	21.23
			1	37	22.50	22.14	21.73	21.59
			1	74	22.50	21.70	21.39	21.10
			36	0	21.50	21.21	20.63	20.53
			36	18	21.50	21.09	20.71	20.42
			36	37	21.50	21.00	20.67	20.32
			75	0	21.50	21.14	20.69	20.46
		16QAM	1	0	21.50	20.98	20.58	20.49
			1	37	21.50	21.28	20.92	20.82
			1	74	21.50	20.94	20.47	20.53
			36	0	20.50	20.21	19.56	19.45
			36	18	20.50	20.10	19.60	19.40
			36	37	20.50	20.05	19.57	19.35
			75	0	20.50	20.09	19.62	19.38
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	22.50	21.79	21.36	21.23
			1	49	22.50	22.08	22.02	21.45
			1	99	22.50	21.47	21.30	20.91
			50	0	21.50	21.26	20.66	20.62
			50	24	21.50	21.04	20.63	20.38
			50	49	21.50	20.98	20.59	20.33
			100	0	21.50	21.20	20.61	20.47
		16QAM	1	0	21.50	20.89	20.71	20.27
			1	49	21.50	21.29	20.99	20.57
			1	99	21.50	20.78	20.47	20.28
			50	0	20.50	20.29	19.68	19.54
			50	24	20.50	20.01	19.63	19.33
			50	49	20.50	20.01	19.58	19.29
			100	0	20.50	20.13	19.59	19.43

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		133147/665.5	133297/680.5	133447/695.5
LTE Band 71	5MHz	QPSK	1	0	22.00	21.29	21.65	21.67
			1	12	22.00	21.74	22.00	22.00
			1	24	22.00	21.44	21.82	21.68
			12	0	21.00	20.43	20.82	20.85
			12	6	21.00	20.47	20.84	20.82
			12	11	21.00	20.41	20.78	20.66
			25	0	21.00	20.42	20.81	20.82
		16QAM	1	0	21.50	20.82	20.95	20.95
			1	12	21.50	21.28	21.36	21.45
			1	24	21.50	20.96	21.08	20.98
			12	0	20.00	19.38	19.73	19.90
			12	6	20.00	19.46	19.77	19.83
			12	11	20.00	19.39	19.68	19.69
			25	0	20.00	19.37	19.81	19.78
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		133172/668	133297/680.5	133422/693
LTE Band 71	10MHz	QPSK	1	0	22.00	21.35	21.64	21.84
			1	24	22.00	21.65	21.98	22.00
			1	49	22.00	21.58	21.86	21.82
			25	0	21.50	20.61	21.04	20.94
			25	12	21.50	20.52	20.89	20.87
			25	24	21.50	20.78	20.93	20.69
			50	0	21.00	20.69	20.99	20.79
		16QAM	1	0	21.50	20.76	20.77	20.63
			1	24	21.50	21.09	21.09	20.84
			1	49	21.50	20.93	20.97	20.61
			25	0	20.00	19.55	19.96	19.89
			25	12	20.00	19.54	19.83	19.81
			25	24	20.00	19.81	19.87	19.66
			50	0	20.00	19.68	19.96	19.73
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB	RB		133197/670.5	133297/680.5	133397/690.5

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		133222/673	133322/683	133372/688
LTE Band 71	15MHz	QPSK	1	0	22.00	21.15	21.48	21.65
			1	37	22.00	21.68	21.96	22.00
			1	74	22.00	21.52	21.75	21.61
			36	0	21.00	20.50	20.84	20.73
			36	18	21.00	20.53	20.85	20.86
			36	37	21.00	20.66	20.95	20.74
			75	0	21.00	20.59	20.90	20.76
		16QAM	1	0	21.50	20.60	20.63	20.77
			1	37	21.50	21.04	21.32	21.15
			1	74	21.50	20.99	20.86	20.73
			36	0	20.00	19.49	19.89	19.64
			36	18	20.00	19.58	19.90	19.81
			36	37	20.00	19.67	19.98	19.67
			75	0	20.00	19.59	19.89	19.73
LTE Band 71	20MHz	QPSK	1	0	22.00	21.07	21.28	21.40
			1	49	22.00	21.72	22.00	21.99
			1	99	22.00	21.58	21.58	21.50
			50	0	21.50	20.41	21.10	20.85
			50	24	21.50	20.57	20.87	20.87
			50	49	21.50	20.48	21.19	20.73
			100	0	21.50	20.44	21.19	20.75
		16QAM	1	0	21.50	20.30	20.52	20.70
			1	49	21.50	20.94	21.22	21.27
			1	99	21.50	20.76	20.81	20.80
			50	0	20.50	19.36	20.13	19.90
			50	24	20.50	19.54	19.86	19.88
			50	49	20.50	19.44	20.22	19.76
			100	0	20.50	19.43	20.14	19.77

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	14.00
	6	2437	14.00	13.94
	11	2462	14.00	12.43
802.11g	1	2412	11.00	9.73
	6	2437	11.00	10.85
	11	2462	11.00	10.24
802.11n HT20	1	2412	11.00	9.98
	6	2437	11.00	10.63
	11	2462	11.00	10.22
802.11n HT40	3	2422	12.00	11.77
	6	2437	12.00	12.00
	9	2452	12.00	10.78

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	9.00	8.27
	40	5200	9.00	8.06
	48	5240	9.00	8.99
802.11n HT20	36	5180	9.50	8.18
	40	5200	9.50	7.98
	48	5240	9.50	9.03
802.11n HT40	38	5190	9.00	8.08
	46	5230	9.00	8.55

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	149	5745	11.00	10.93
	157	5785	11.00	10.61
	165	5825	11.00	10.91
802.11n HT20	149	5745	10.50	9.21
	157	5785	10.50	10.01
	165	5825	10.50	10.02
802.11n HT40	151	5755	11.00	10.71
	159	5795	11.00	9.17

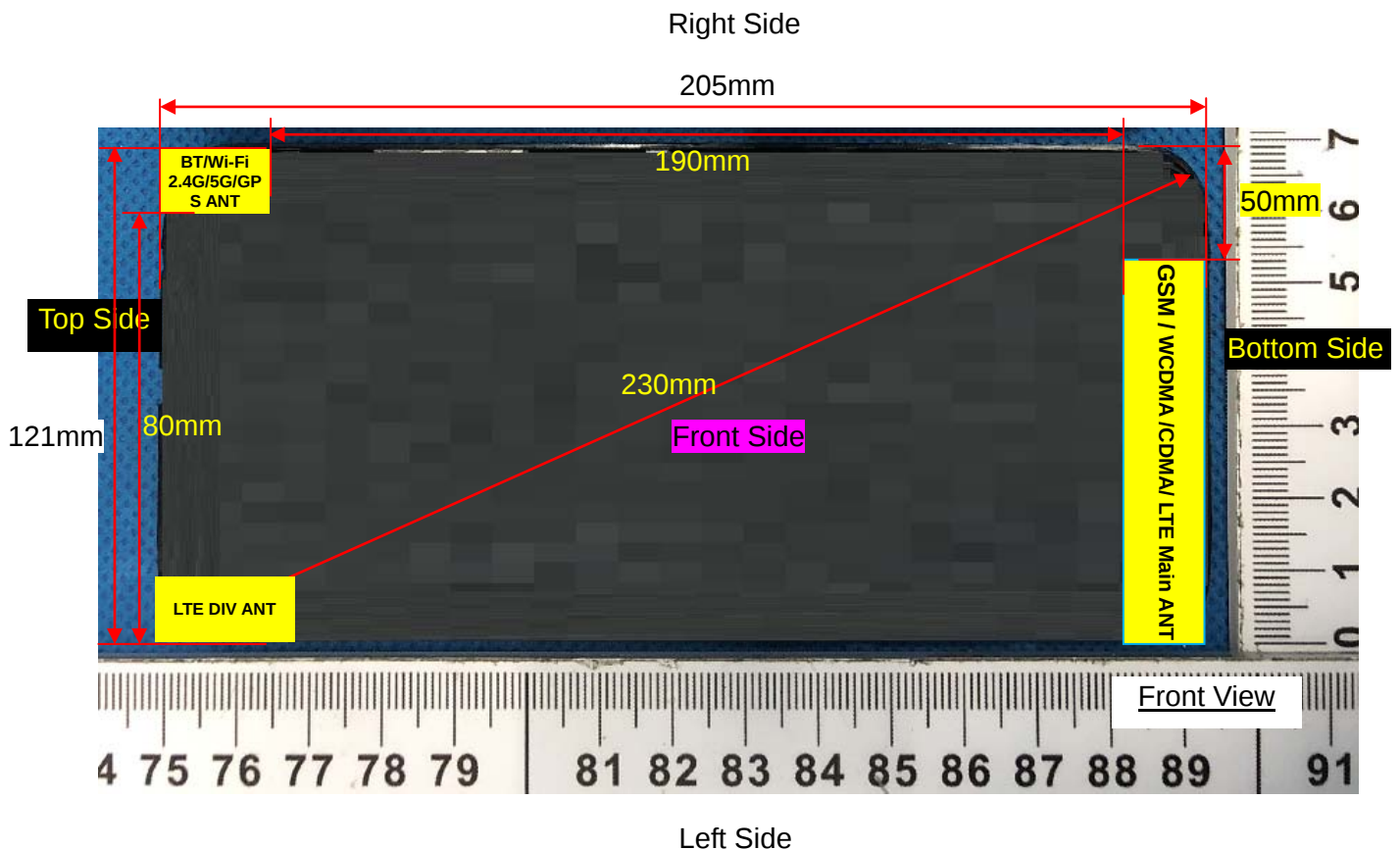
NOTE: Power measurement results of WLAN 5.8G.

7.4.2. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
	0CH	-2.500	-2.782	-4.028	-3.966
	39CH	-1.000	-1.401	-2.203	-2.368
	78CH	-1.000	-1.478	-2.606	-2.468

BLE	Channel	Tune-up	Output Power (dBm)
	0CH	-2.000	-2.632
	19CH	-1.000	-1.346
	39CH	-1.000	-1.096

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	5	5	5	50	190	5
WLAN & Bluetooth	5	5	80	5	5	190

Note: When the minimum separation distance is < 5 mm, a distance of 5 mm is applied to determine

SAR test exclusion.

Positions for SAR tests		
Test separation distances ≤ 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	14.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	7.9
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	7.9
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold	7.9
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold	7.9
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	9.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.1
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.1
	SAR testing required?	YES
Right Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.1
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold	4.1
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	11.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	6.1
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	6.1
	SAR testing required?	YES

Right Side	Antenna to user(mm)	5
	SAR exclusion threshold	6.1
	SAR testing required?	YES
Top Side	Antenna to user(mm)	5
	SAR exclusion threshold	6.1
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM850	
	32.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	292.4
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	292.4
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	292.4
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	29.2
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	292.4
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM1900	
	29.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	219
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	219
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	219
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	21.9
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	219
	SAR testing required?	YES

Exposure Positions	Tune-up Maximum power of WCDMA Band2	
	20.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	31
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	31
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	31
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	3.1
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	31
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band4	
	21.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	37.4
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	37.4
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	37.4
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	3.7
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	37.4
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of WCDMA Band5	
	22.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	29
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5

	SAR exclusion threshold	29
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	29
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	2.9
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	29
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band2	
	21.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	39
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	39
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	39
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	3.9
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	39
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band4	
	22.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	42
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	42
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	42
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50

	SAR exclusion threshold	4.2
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	42
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band5	
	22.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	32.8
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	32.8
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	32.8
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	3.3
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	32.8
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band7	
	21.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	40.4
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	40.4
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	40.4
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	4.0
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	40.4
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band12	

	23.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	33.8
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	33.8
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	33.8
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	3.4
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	33.8
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band17	
	22.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	30.1
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	30.1
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	30.1
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	3.1
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	30.1
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band41	
	21.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.4
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.4

	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.4
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	4.6
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	46.4
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band66	
	22.50dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	47.5
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	47.5
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	47.5
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	4.7
	SAR testing required?	YES
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	47.5
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of LTE Band71	
	22.00dBm	
Front Side	Antenna to user(mm)	5
	SAR exclusion threshold	26.5
	SAR testing required?	YES
Back Side	Antenna to user(mm)	5
	SAR exclusion threshold	26.5
	SAR testing required?	YES
Left Side	Antenna to user(mm)	5
	SAR exclusion threshold	26.5
	SAR testing required?	YES
Right Side	Antenna to user(mm)	50
	SAR exclusion threshold	2.7

	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	5
	SAR exclusion threshold	26.5
	SAR testing required?	YES

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

Positions for SAR tests		
Test separation distances > 50 mm		
Exposure Positions	Tune-up Maximum power of WLAN 2.4G	
	14.00dBm	25.12mW
Left Side	Antenna to user(mm)	80
	SAR exclusion threshold(mW)	396
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1496
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.2G	
	9.50dBm	8.91mW
Left Side	Antenna to user(mm)	80
	SAR exclusion threshold(mW)	366
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1466
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WLAN 5.8G	
	11.00dBm	12.59mW
Left Side	Antenna to user(mm)	80
	SAR exclusion threshold(mW)	362
	SAR testing required?	NO
Bottom Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1462
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of GSM850	
	32.00dBm	1584.89mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	943
	SAR testing required?	YES
Exposure Positions	Tune-up Maximum power of GSM1900	
	29.00dBm	794.33mW
Top Side	Antenna to user(mm)	190

	SAR exclusion threshold(mW)	1509
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band2	
	20.50dBm	112.20mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1509
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band4	
	21.50dBm	141.25mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1509
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of WCDMA Band5	
	22.00dBm	158.49mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	943
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band2	
	21.5dBm	141.25mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1509
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band4	
	22.00dBm	158.49mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1509
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band5	
	22.5dBm	177.83mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	943
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band7	
	21.00dBm	125.89mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1479
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band12	
	23.00dBm	199.53mW
Top Side	Antenna to user(mm)	190

	SAR exclusion threshold(mW)	943
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band17	
	22.50dBm	177.83mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	943
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band41	
	21.50dBm	141.25mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	1479
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band66	
	22.50dBm	177.83mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	943
	SAR testing required?	NO
Exposure Positions	Tune-up Maximum power of LTE Band71	
	22.00dBm	158.49mW
Top Side	Antenna to user(mm)	190
	SAR exclusion threshold(mW)	943
	SAR testing required?	NO

NOTE: Refer to section 4.3.1 of KDB 447498 D01.

9. Stand-alone SAR test exclusion

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{GHz}}}]$
 ≤ 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	-1.00	0.79	5	2.480	0.25	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

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

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

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Head	-1.00	0.79	5	2.48	7.5	0.033
Bluetooth	Body	-1.00	0.79	10	2.48	7.5	0.017

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)	0.110	0.086	3.89	28.15	28.50	0.119	2021/9/13
Left Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.066	0.050	0.19	28.15	28.50	0.072	2021/9/13
Right Cheek	189/836.4	GPRS(GMSK 4TS)	0.103	0.081	2.76	28.15	28.50	0.112	2021/9/13
Right Tilt 15 Degree	189/836.4	GPRS(GMSK 4TS)	0.050	0.038	3.80	28.15	28.50	0.054	2021/9/13

NOTE: Head SAR test results of GSM850.

Test Position of Body with 0mm	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)	0.612	0.340	2.12	28.15	28.50	0.663	2021/9/13
Back Side	189/836.4	GPRS(GMSK 4TS)	1.018	0.596	-1.62	28.15	28.50	1.103	2021/9/13
Back Side Repeated	189/836.4	GPRS(GMSK 4TS)	1.010	0.591	-1.62	28.15	28.50	1.095	2021/9/13
Left Side	189/836.4	GPRS(GMSK 4TS)	0.312	0.183	-2.30	28.15	28.50	0.338	2021/9/13
Right Side	189/836.4	GPRS(GMSK 4TS)	0.104	0.058	3.67	28.15	28.50	0.113	2021/9/13
Topside	189/836.4	GPRS(GMSK 4TS)	0.020	0.015	2.34	28.15	28.50	0.022	2021/9/13
Bottom Side	189/836.4	GPRS(GMSK 4TS)	0.525	0.301	-3.18	28.15	28.50	0.569	2021/9/13
Back Side	128/824.2	GPRS(GMSK 4TS)	0.918	0.527	2.49	27.74	28.50	1.094	2021/9/13
Back Side	251/848.8	GPRS(GMSK 4TS)	0.876	0.503	-3.30	27.88	28.50	1.010	2021/9/13

NOTE: Body 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	EGPRS(GMSK 4TS)	0.173	0.101	-3.83	24.78	25.50	0.204	2021/9/06

Left Tilt 15 Degree	661/1880	EGPRS(GMSK 4TS)	0.097	0.055	2.00	24.78	25.50	0.114	2021/9/06
Right Cheek	661/1880	EGPRS(GMSK 4TS)	0.151	0.085	0.19	24.78	25.50	0.178	2021/9/06
Right Tilt 15 Degree	661/1880	EGPRS(GMSK 4TS)	0.075	0.043	0.60	24.78	25.50	0.089	2021/9/06

NOTE: Head SAR test results of GSM1900

Test Position of Body with 0mm	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	EGPRS(GMSK 4TS)	0.498	0.253	-3.94	24.78	25.50	0.588	2021/9/06
Back Side	661/1880	EGPRS(GMSK 4TS)	0.815	0.432	-2.11	24.78	25.50	0.962	2021/9/06
Back Side Repeated	661/1880	EGPRS(GMSK 4TS)	0.809	0.428	1.25	24.78	25.50	0.955	2021/9/06
Left Side	661/1880	EGPRS(GMSK 4TS)	0.246	0.128	0.58	24.78	25.50	0.290	2021/9/06
Right Side	661/1880	EGPRS(GMSK 4TS)	0.085	0.045	-2.22	24.78	25.50	0.100	2021/9/06
Bottom Side	661/1880	EGPRS(GMSK 4TS)	0.430	0.223	3.46	24.78	25.50	0.508	2021/9/06
Back Side	512/1850.2	EGPRS(GMSK 4TS)	0.765	0.389	-1.54	25.27	25.50	0.807	2021/9/06
Back Side	810/1909.8	EGPRS(GMSK 4TS)	0.697	0.355	3.62	24.26	25.50	0.927	2021/9/06

NOTE: Body 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	0.203	0.115	0.69	20.14	20.50	0.221	2021/9/06
Left Tilt 15 Degree	9400/1880	RMC12.2K	0.102	0.058	5.33	20.14	20.50	0.111	2021/9/06
Right Cheek	9400/1880	RMC12.2K	0.184	0.102	-0.07	20.14	20.50	0.200	2021/9/06
Right Tilt 15 Degree	9400/1880	RMC12.2K	0.084	0.046	4.85	20.14	20.50	0.091	2021/9/06

NOTE: Head SAR test results of WCDMA Band 2

Test Position of Body with 0mm	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	0.414	0.203	-1.55	20.14	20.50	0.450	2021/9/06
Back Side	9400/1880	RMC12.2K	0.669	0.345	-0.84	20.14	20.50	0.727	2021/9/06
Left Side	9400/1880	RMC12.2K	0.201	0.100	-1.13	20.14	20.50	0.218	2021/9/06
Right Side	9400/1880	RMC12.2K	0.068	0.035	-2.53	20.14	20.50	0.074	2021/9/06
Bottom Side	9400/1880	RMC12.2K	0.355	0.183	-2.31	20.14	20.50	0.386	2021/9/06

NOTE: Body 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	0.076	0.048	3.67	20.96	21.50	0.086	2021/9/02
Left Tilt 15 Degree	1413/1732.6	RMC12.2K	0.043	0.026	-2.53	20.96	21.50	0.049	2021/9/02
Right Cheek	1413/1732.6	RMC12.2K	0.072	0.044	-2.18	20.96	21.50	0.082	2021/9/02
Right Tilt 15 Degree	1413/1732.6	RMC12.2K	0.039	0.024	0.05	20.96	21.50	0.044	2021/9/02

NOTE: Head SAR test results of WCDMA Band 4

Test Position of Body with 0mm	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	0.222	0.124	-0.13	20.96	21.50	0.251	2021/9/02
Back Side	1413/1732.6	RMC12.2K	0.363	0.214	0.07	20.96	21.50	0.411	2021/9/02
Left Side	1413/1732.6	RMC12.2K	0.111	0.065	-1.55	20.96	21.50	0.126	2021/9/02
Right Side	1413/1732.6	RMC12.2K	0.037	0.022	-2.43	20.96	21.50	0.042	2021/9/02
Bottom Side	1413/1732.6	RMC12.2K	0.205	0.121	-0.76	20.96	21.50	0.232	2021/9/02

NOTE: Body 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	0.102	0.075	-2.91	21.53	22.00	0.114	2021/9/13
Left Tilt 15 Degree	4182/836.4	RMC12.2K	0.052	0.037	2.79	21.53	22.00	0.058	2021/9/13
Right Cheek	4182/836.4	RMC12.2K	0.092	0.065	1.81	21.53	22.00	0.103	2021/9/13
Right Tilt 15 Degree	4182/836.4	RMC12.2K	0.050	0.035	4.26	21.53	22.00	0.056	2021/9/13

NOTE: Head SAR test results of WCDMA Band 5

Test Position of Body with 0mm	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	0.606	0.315	-0.88	21.53	22.00	0.675	2021/9/13
Back Side	4182/836.4	RMC12.2K	0.963	0.506	0.02	21.53	22.00	1.073	2021/9/13
Back Side Repeated	4182/836.4	RMC12.2K	0.959	0.498	0.34	21.53	22.00	1.069	2021/9/13
Left Side	4182/836.4	RMC12.2K	0.300	0.151	3.88	21.53	22.00	0.334	2021/9/13
Bottom Side	4182/836.4	RMC12.2K	0.505	0.263	2.58	21.53	22.00	0.563	2021/9/13
Back Side	4132/826.4	RMC12.2K	0.882	0.450	-3.34	21.35	22.00	1.024	2021/9/13
Back Side	4233/846.6	RMC12.2K	0.842	0.420	2.25	21.56	22.00	0.932	2021/9/13

NOTE: Body 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)	0.127	0.078	-1.91	20.88	21.50	0.146	2021/9/06
Left Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.074	0.044	2.47	20.88	21.50	0.085	2021/9/06
Right	18900/1880	20M	0.108	0.066	1.59	20.88	21.50	0.125	2021/9/06

Cheek		QPSK(1,49)							
Right Tilt 15 Degree	18900/1880	20M QPSK(1,49)	0.058	0.035	-4.07	20.88	21.50	0.067	2021/9/06
50%RB									
Left Cheek	18900/1880	20M QPSK(50,0)	0.067	0.046	-0.82	19.84	20.00	0.070	2021/9/06
Left Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.044	0.026	3.86	19.84	20.00	0.046	2021/9/06
Right Cheek	18900/1880	20M QPSK(50,0)	0.059	0.037	-2.72	19.84	20.00	0.061	2021/9/06
Right Tilt 15 Degree	18900/1880	20M QPSK(50,0)	0.031	0.018	3.78	19.84	20.00	0.032	2021/9/06

NOTE: Head SAR test results of LTE Band 2

Test Position of Body with 0mm	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)	0.432	0.223	-3.38	20.88	21.50	0.498	2021/9/06
Back Side	18900/1880	20M QPSK(1,49)	0.690	0.359	-0.85	20.88	21.50	0.796	2021/9/06
Left Side	18900/1880	20M QPSK(1,49)	0.216	0.109	2.53	20.88	21.50	0.249	2021/9/06
Right Side	18900/1880	20M QPSK(1,49)	0.071	0.035	1.10	20.88	21.50	0.082	2021/9/06
Bottom Side	18900/1880	20M QPSK(1,49)	0.360	0.176	-1.66	20.88	21.50	0.415	2021/9/06
50%RB									
Front Side	18900/1880	20M QPSK(50,0)	0.239	0.131	-0.98	19.84	20.00	0.248	2021/9/06
Back Side	18900/1880	20M QPSK(50,0)	0.382	0.181	0.41	19.84	20.00	0.396	2021/9/06
Left Side	18900/1880	20M QPSK(50,0)	0.115	0.056	2.80	19.84	20.00	0.119	2021/9/06
Right	18900/1880	20M	0.041	0.021	0.80	19.84	20.00	0.043	2021/9/06

Side		QPSK(50,0)							
Bottom Side	18900/1880	20M QPSK(50,0)	0.202	0.098	3.51	19.84	20.00	0.210	2021/9/06

NOTE: Body 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)	0.081	0.053	-1.01	21.59	22.00	0.089	2021/9/02
Left Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.041	0.026	0.51	21.59	22.00	0.045	2021/9/02
Right Cheek	20175/1732.5	20M QPSK(1,49)	0.076	0.048	0.77	21.59	22.00	0.084	2021/9/02
Right Tilt 15 Degree	20175/1732.5	20M QPSK(1,49)	0.039	0.024	0.59	21.59	22.00	0.043	2021/9/02
50%RB									
Left Cheek	20175/1732.5	20M QPSK(50,0)	0.046	0.031	1.24	20.66	21.50	0.056	2021/9/02
Left Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.022	0.015	-4.90	20.66	21.50	0.027	2021/9/02
Right Cheek	20175/1732.5	20M QPSK(50,0)	0.045	0.028	-2.20	20.66	21.50	0.055	2021/9/02
Right Tilt 15 Degree	20175/1732.5	20M QPSK(50,0)	0.023	0.013	1.58	20.66	21.50	0.028	2021/9/02

NOTE: Head SAR test results of LTE Band 4

Test Position of Body with 0mm	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)	0.684	0.399	0.26	21.59	22.00	0.752	2021/9/02

Back Side	20175/1732.5	20M QPSK(1,49)	1.019	0.680	-0.33	21.59	22.00	1.120	2021/9/02
Back Side Repeated	20175/1732.5	20M QPSK(1,49)	1.008	0.675	-0.33	21.59	22.00	1.108	2021/9/02
Left Side	20175/1732.5	20M QPSK(1,49)	0.336	0.204	3.89	21.59	22.00	0.369	2021/9/02
Right Side	20175/1732.5	20M QPSK(1,49)	0.116	0.070	-1.66	21.59	22.00	0.127	2021/9/02
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.560	0.340	0.78	21.59	22.00	0.615	2021/9/02
Back Side	20050/1720	20M QPSK(1,49)	0.986	0.605	3.05	21.82	22.00	1.028	2021/9/02
Back Side	20300/1745	20M QPSK(1,49)	0.961	0.578	-2.33	21.54	22.00	1.068	2021/9/02
50%RB									
Front Side	20175/1732.5	20M QPSK(50,0)	0.369	0.212	1.98	20.66	21.50	0.448	2021/9/02
Back Side	20175/1732.5	20M QPSK(50,0)	0.580	0.375	0.44	20.66	21.50	0.704	2021/9/02
Left Side	20175/1732.5	20M QPSK(50,0)	0.184	0.108	-3.34	20.66	21.50	0.223	2021/9/02
Right Side	20175/1732.5	20M QPSK(50,0)	0.066	0.036	4.34	20.66	21.50	0.080	2021/9/02
Bottom Side	20175/1732.5	20M QPSK(50,0)	0.334	0.204	-2.21	20.66	21.50	0.405	2021/9/02
100%RB									
Back Side	20175/1732.5	20M QPSK(100,0)	0.522	0.327	1.00	20.68	21.00	0.562	2021/9/02

NOTE: Body 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(1,24)	0.181	0.131	0.05	22.09	22.50	0.199	2021/9/13
Left Tilt	20525/836.5	10M	0.103	0.072	-1.01	22.09	22.50	0.113	2021/9/13

15 Degree		QPSK(1,24)							
Right Cheek	20525/836.5	10M QPSK(1,24)	0.167	0.118	2.76	22.09	22.50	0.184	2021/9/13
Right Tilt 15 Degree	20525/836.5	10M QPSK(1,24)	0.083	0.057	0.54	22.09	22.50	0.091	2021/9/13
50%RB									
Left Cheek	20525/836.5	10M QPSK(25,0)	0.099	0.076	3.75	21.13	21.50	0.108	2021/9/13
Left Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.061	0.039	4.41	21.13	21.50	0.066	2021/9/13
Right Cheek	20525/836.5	10M QPSK(25,0)	0.086	0.069	4.27	21.13	21.50	0.094	2021/9/13
Right Tilt 15 Degree	20525/836.5	10M QPSK(25,0)	0.046	0.032	-4.99	21.13	21.50	0.050	2021/9/13

NOTE: Head SAR test results of LTE Band 5

Test Position of Body with 0mm	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(1,24)	0.642	0.345	1.10	22.09	22.50	0.706	2021/9/13
Back Side	20525/836.5	10M QPSK(1,24)	1.032	0.572	0.27	22.09	22.50	1.134	2021/9/13
Back Side Repeated	20525/836.5	10M QPSK(1,24)	1.028	0.570	1.44	22.09	22.50	1.130	2021/9/13
Left Side	20525/836.5	10M QPSK(1,24)	0.321	0.169	-0.46	22.09	22.50	0.353	2021/9/13
Right Side	20525/836.5	10M QPSK(1,24)	0.105	0.057	-0.10	22.09	22.50	0.115	2021/9/13
Bottom Side	20525/836.5	10M QPSK(1,24)	0.525	0.285	-0.23	22.09	22.50	0.577	2021/9/13
Back Side	20450/829	10M QPSK(1,24)	0.929	0.491	0.66	22.01	22.50	1.040	2021/9/13
Back	20600/844	10M	0.954	0.502	1.36	22.14	22.50	1.036	2021/9/13

Side		QPSK(1,24)							
50%RB									
Front Side	20525/836.5	10M QPSK(25,0)	0.325	0.176	-1.68	21.13	21.50	0.354	2021/9/13
Back Side	20525/836.5	10M QPSK(25,0)	0.616	0.328	4.76	21.13	21.50	0.671	2021/9/13
Left Side	20525/836.5	10M QPSK(25,0)	0.182	0.089	1.46	21.13	21.50	0.198	2021/9/13
Right Side	20525/836.5	10M QPSK(25,0)	0.059	0.031	1.36	21.13	21.50	0.064	2021/9/13
Bottom Side	20525/836.5	10M QPSK(25,0)	0.308	0.162	-0.11	21.13	21.50	0.335	2021/9/13
100%RB									
Back Side	20525/836.5	10M QPSK(50,0)	0.576	0.304	-3.00	21.12	21.50	0.629	2021/9/13

NOTE: Body 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(1,49)	0.119	0.069	-4.68	20.52	21.00	0.133	2021/9/08
Left Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.069	0.040	-3.52	20.52	21.00	0.077	2021/9/08
Right Cheek	21100/2535	20M QPSK(1,49)	0.107	0.060	4.02	20.52	21.00	0.120	2021/9/08
Right Tilt 15 Degree	21100/2535	20M QPSK(1,49)	0.052	0.029	0.32	20.52	21.00	0.058	2021/9/08
50%RB									
Left Cheek	21100/2535	20M QPSK(50,0)	0.067	0.040	-2.79	19.44	20.00	0.076	2021/9/08
Left Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.039	0.022	-0.04	19.44	20.00	0.044	2021/9/08
Right Cheek	21100/2535	20M QPSK(50,0)	0.060	0.032	1.23	19.44	20.00	0.068	2021/9/08

Right Tilt 15 Degree	21100/2535	20M QPSK(50,0)	0.026	0.015	2.74	19.44	20.00	0.030	2021/9/08
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NOTE: Head SAR test results of LTE Band 7

Test Position of Body with 0mm	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(1,49)	0.504	0.240	-1.86	20.52	21.00	0.563	2021/9/08
Back Side	21100/2535	20M QPSK(1,49)	0.815	0.409	1.58	20.52	21.00	0.910	2021/9/08
Back Side	21100/2535	20M QPSK(1,49)	0.809	0.400	2.11	20.52	21.00	0.904	2021/9/08
Left Side	21100/2535	20M QPSK(1,49)	0.258	0.124	-2.50	20.52	21.00	0.288	2021/9/08
Right Side	21100/2535	20M QPSK(1,49)	0.083	0.040	1.23	20.52	21.00	0.093	2021/9/08
Bottom Side	21100/2535	20M QPSK(1,49)	0.410	0.202	-1.75	20.52	21.00	0.458	2021/9/08
Back Side	20850/2510	20M QPSK(1,49)	0.774	0.377	-2.65	20.19	21.00	0.933	2021/9/08
Back Side	21350/2560	20M QPSK(1,49)	0.731	0.363	-1.79	20.74	21.00	0.776	2021/9/08
50%RB									
Front Side	21100/2535	20M QPSK(50,0)	0.287	0.137	3.07	19.44	20.00	0.326	2021/9/08
Back Side	21100/2535	20M QPSK(50,0)	0.454	0.242	-0.61	19.44	20.00	0.516	2021/9/08
Left Side	21100/2535	20M QPSK(50,0)	0.153	0.066	-1.75	19.44	20.00	0.174	2021/9/08
Right Side	21100/2535	20M QPSK(50,0)	0.045	0.021	-1.62	19.44	20.00	0.051	2021/9/08
Bottom Side	21100/2535	20M QPSK(50,0)	0.218	0.105	1.85	19.44	20.00	0.248	2021/9/08
100%RB									
Back Side	21100/2535	20M QPSK(100,0)	0.447	0.236	1.24	19.39	20.00	0.514	2021/9/08

NOTE: Body 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)	0.025	0.021	2.67	22.40	23.00	0.029	2021/9/03
Left Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.014	0.012	1.33	22.40	23.00	0.016	2021/9/03
Right Cheek	23095/707.5	10M QPSK(1,24)	0.022	0.018	-2.83	22.40	23.00	0.025	2021/9/03
Right Tilt 15 Degree	23095/707.5	10M QPSK(1,24)	0.010	0.008	3.15	22.40	23.00	0.011	2021/9/03
50%RB									
Left Cheek	23095/707.5	10M QPSK(25,0)	0.022	0.020	-3.81	21.24	21.50	0.023	2021/9/03
Left Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.012	0.011	-2.02	21.24	21.50	0.013	2021/9/03
Right Cheek	23095/707.5	10M QPSK(25,0)	0.019	0.015	2.22	21.24	21.50	0.020	2021/9/03
Right Tilt 15 Degree	23095/707.5	10M QPSK(25,0)	0.009	0.007	-4.04	21.24	21.50	0.010	2021/9/03

NOTE: Head SAR test results of LTE Band 12

Test Position of Body with 0mm	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)	0.168	0.092	0.83	22.40	23.00	0.193	2021/9/03
Back Side	23095/707.5	10M QPSK(1,24)	0.277	0.154	2.52	22.40	23.00	0.318	2021/9/03

Left Side	23095/707.5	10M QPSK(1,24)	0.087	0.048	1.08	22.40	23.00	0.100	2021/9/03
Right Side	23095/707.5	10M QPSK(1,24)	0.031	0.017	-0.25	22.40	23.00	0.036	2021/9/03
Bottom Side	23095/707.5	10M QPSK(1,24)	0.155	0.084	-0.58	22.40	23.00	0.178	2021/9/03
50%RB									
Front Side	23095/707.5	10M QPSK(25,0)	0.085	0.049	-4.09	21.24	21.50	0.090	2021/9/03
Back Side	23095/707.5	10M QPSK(25,0)	0.154	0.079	0.27	21.24	21.50	0.164	2021/9/03
Left Side	23095/707.5	10M QPSK(25,0)	0.048	0.025	-4.45	21.24	21.50	0.051	2021/9/03
Right Side	23095/707.5	10M QPSK(25,0)	0.016	0.009	3.78	21.24	21.50	0.017	2021/9/03
Bottom Side	23095/707.5	10M QPSK(25,0)	0.089	0.049	1.68	21.24	21.50	0.094	2021/9/03

NOTE: Body 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(1,24)	0.037	0.029	-0.81	22.39	22.50	0.038	2021/9/03
Left Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.019	0.017	-3.58	22.39	22.50	0.019	2021/9/03
Right Cheek	23790/710	10M QPSK(1,24)	0.034	0.026	-2.24	22.39	22.50	0.035	2021/9/03
Right Tilt 15 Degree	23790/710	10M QPSK(1,24)	0.017	0.015	0.19	22.39	22.50	0.017	2021/9/03
50%RB									
Left Cheek	23790/710	10M QPSK(25,12)	0.033	0.027	-2.49	21.30	21.50	0.035	2021/9/03
Left Tilt 15	23790/710	10M QPSK(25,12)	0.018	0.015	2.58	21.30	21.50	0.019	2021/9/03

Degree									
Right Cheek	23790/710	10M QPSK(25,12)	0.030	0.023	2.53	21.30	21.50	0.031	2021/9/03
Right Tilt 15 Degree	23790/710	10M QPSK(25,12)	0.015	0.014	2.91	21.30	21.50	0.016	2021/9/03

NOTE: Head SAR test results of LTE Band17

Test Position of Body with Omm	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(1,24)	0.204	0.107	2.47	22.39	22.50	0.209	2021/9/03
Back Side	23790/710	10M QPSK(1,24)	0.307	0.170	-1.43	22.39	22.50	0.315	2021/9/03
Left Side	23790/710	10M QPSK(1,24)	0.096	0.053	-2.95	22.39	22.50	0.098	2021/9/03
Right Side	23790/710	10M QPSK(1,24)	0.035	0.019	-1.84	22.39	22.50	0.036	2021/9/03
Bottom Side	23790/710	10M QPSK(1,24)	0.175	0.093	-3.61	22.39	22.50	0.179	2021/9/03
50%RB									
Front Side	23790/710	10M QPSK(25,12)	0.115	0.060	-0.86	21.30	21.50	0.120	2021/9/03
Back Side	23790/710	10M QPSK(25,12)	0.164	0.086	-2.41	21.30	21.50	0.172	2021/9/03
Left Side	23790/710	10M QPSK(25,12)	0.049	0.029	1.77	21.30	21.50	0.051	2021/9/03
Right Side	23790/710	10M QPSK(25,12)	0.019	0.011	0.35	21.30	21.50	0.020	2021/9/03
Bottom Side	23790/710	10M QPSK(25,12)	0.095	0.054	2.44	21.30	21.50	0.099	2021/9/03

NOTE: Body SAR test results of LTE Band 17

10.1.12. SAR measurement Result of LTE Band 41

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	Date
			1g	10g					

								(W/Kg)	
1RB									
Left Cheek	40620/2593	20M QPSK(1,49)	0.238	0.131	0.47	21.01	21.50	0.266	2021/9/08
Left Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.121	0.065	1.57	21.01	21.50	0.135	2021/9/08
Right Cheek	40620/2593	20M QPSK(1,49)	0.220	0.121	-0.41	21.01	21.50	0.246	2021/9/08
Right Tilt 15 Degree	40620/2593	20M QPSK(1,49)	0.117	0.064	-3.58	21.01	21.50	0.131	2021/9/08
50%RB									
Left Cheek	40620/2593	20M QPSK(50,0)	0.127	0.070	-3.19	19.99	20.00	0.127	2021/9/08
Left Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.064	0.034	0.65	19.99	20.00	0.064	2021/9/08
Right Cheek	40620/2593	20M QPSK(50,0)	0.116	0.070	-1.36	19.99	20.00	0.116	2021/9/08
Right Tilt 15 Degree	40620/2593	20M QPSK(50,0)	0.066	0.036	2.14	19.99	20.00	0.066	2021/9/08

NOTE: Head SAR test results of LTE Band41

Test Position of Body with 0mm	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	40620/2593	20M QPSK(1,49)	0.612	0.245	3.06	21.01	21.50	0.685	2021/9/08
Back Side	40620/2593	20M QPSK(1,49)	1.002	0.410	0.69	21.01	21.50	1.122	2021/9/08
Back Side Repeated	40620/2593	20M QPSK(1,49)	0.996	0.408	0.19	21.01	21.50	1.115	2021/9/08
Left Side	40620/2593	20M QPSK(1,49)	0.306	0.124	1.29	21.01	21.50	0.343	2021/9/08
Right Side	40620/2593	20M QPSK(1,49)	0.105	0.043	-2.70	21.01	21.50	0.118	2021/9/08

Bottom Side	40620/2593	20M QPSK(1,49)	0.520	0.209	-1.89	21.01	21.50	0.582	2021/9/08
Back Side	39750/2506	20M QPSK(1,49)	0.850	0.336	3.71	20.11	21.50	1.171	2021/9/08
Back Side	41490/2680	20M QPSK(1,49)	0.859	0.341	-0.39	20.77	21.50	1.016	2021/9/08
50%RB									
Front Side	40620/2593	20M QPSK(50,0)	0.335	0.138	-1.21	19.99	20.00	0.336	2021/9/08
Back Side	40620/2593	20M QPSK(50,0)	0.517	0.210	-1.00	19.99	20.00	0.518	2021/9/08
Left Side	40620/2593	20M QPSK(50,0)	0.171	0.067	-4.18	19.99	20.00	0.171	2021/9/08
Right Side	40620/2593	20M QPSK(50,0)	0.055	0.025	4.51	19.99	20.00	0.055	2021/9/08
Bottom Side	40620/2593	20M QPSK(50,0)	0.275	0.111	1.78	19.99	20.00	0.276	2021/9/08
100%RB									
Back Side	40620/2593	20M QPSK(100,0)	0.507	0.202	-1.32	19.89	20.00	0.520	2021/9/08

NOTE: Body SAR test results of LTE Band 41

10.1.13. SAR measurement Result of LTE Band 66

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
1RB									
Left Cheek	132322/1745	20M QPSK(1,49)	0.268	0.170	-0.87	22.02	22.50	0.299	2021/9/02
Left Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.134	0.083	-0.33	22.02	22.50	0.150	2021/9/02
Right Cheek	132322/1745	20M QPSK(1,49)	0.240	0.152	1.00	22.02	22.50	0.268	2021/9/02
Right Tilt 15 Degree	132322/1745	20M QPSK(1,49)	0.122	0.077	3.31	22.02	22.50	0.136	2021/9/02
50%RB									
Left	132322/1745	20M	0.141	0.092	3.87	20.66	21.50	0.171	2021/9/02

Cheek		QPSK(50,0)							
Left Tilt 15 Degree	132322/1745	20M QPSK(50,0)	0.079	0.043	1.59	20.66	21.50	0.096	2021/9/02
Right Cheek	132322/1745	20M QPSK(50,0)	0.134	0.083	-0.99	20.66	21.50	0.163	2021/9/02
Right Tilt 15 Degree	132322/1745	20M QPSK(50,0)	0.063	0.044	4.74	20.66	21.50	0.076	2021/9/02

NOTE: Head SAR test results of LTE Band 66

Test Position of Body with 0mm	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	132322/1745	20M QPSK(1,49)	0.624	0.399	-3.08	22.02	22.50	0.697	2021/9/02
Back Side	132322/1745	20M QPSK(1,49)	1.023	0.689	-0.30	22.02	22.50	1.143	2021/9/02
Back Side Repeated	132322/1745	20M QPSK(1,49)	1.020	0.685	1.25	22.02	22.50	1.139	2021/9/02
Left Side	132322/1745	20M QPSK(1,49)	0.309	0.198	2.01	22.02	22.50	0.345	2021/9/02
Right Side	132322/1745	20M QPSK(1,49)	0.103	0.069	-0.74	22.02	22.50	0.115	2021/9/02
Bottom Side	132322/1745	20M QPSK(1,49)	0.520	0.347	-2.42	22.02	22.50	0.581	2021/9/02
Back Side	132072/1720	20M QPSK(1,49)	0.945	0.611	2.77	22.08	22.50	1.041	2021/9/02
Back Side	132572/1770	20M QPSK(1,49)	0.884	0.595	-1.66	21.45	22.50	1.126	2021/9/02
50%RB									
Front Side	132322/1745	20M QPSK(50,0)	0.325	0.239	4.88	20.66	21.50	0.394	2021/9/02
Back Side	132322/1745	20M QPSK(50,0)	0.531	0.398	4.93	20.66	21.50	0.644	2021/9/02
Left Side	132322/1745	20M QPSK(50,0)	0.179	0.116	1.56	20.66	21.50	0.217	2021/9/02
Right	132322/1745	20M	0.054	0.038	-3.38	20.66	21.50	0.066	2021/9/02

Side		QPSK(50,0)							
Bottom Side	132322/1745	20M QPSK(50,0)	0.261	0.191	0.76	20.66	21.50	0.317	2021/9/02
100%RB									
Back Side	132322/1745	20M QPSK(100,0)	0.520	0.388	1.34	20.61	21.50	0.638	2021/9/02

NOTE: Body SAR test results of LTE Band 66

10.1.14. SAR measurement Result of LTE Band 71

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	133322/683	20M QPSK(1,49)	0.015	0.013	-1.50	22.00	22.00	0.015	2021/9/03
Left Tilt 15 Degree	133322/683	20M QPSK(1,49)	0.008	0.006	-1.26	22.00	22.00	0.008	2021/9/03
Right Cheek	133322/683	20M QPSK(1,49)	0.013	0.011	-4.53	22.00	22.00	0.013	2021/9/03
Right Tilt 15 Degree	133322/683	20M QPSK(1,49)	0.007	0.005	-3.07	22.00	22.00	0.007	2021/9/03
50%RB									
Left Cheek	133322/683	20M QPSK(50,49)	0.013	0.012	3.86	21.19	21.50	0.014	2021/9/03
Left Tilt 15 Degree	133322/683	20M QPSK(50,49)	0.007	0.006	4.76	21.19	21.50	0.008	2021/9/03
Right Cheek	133322/683	20M QPSK(50,49)	0.012	0.010	-1.03	21.19	21.50	0.013	2021/9/03
Right Tilt 15 Degree	133322/683	20M QPSK(50,49)	0.006	0.004	2.37	21.19	21.50	0.006	2021/9/03

NOTE: Head SAR test results of LTE Band 71

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

with Omm								(W/Kg)	
1RB									
Front Side	133322/683	20M QPSK(1,49)	0.060	0.039	-3.26	22.00	22.00	0.060	2021/9/03
Back Side	133322/683	20M QPSK(1,49)	0.085	0.056	0.68	22.00	22.00	0.085	2021/9/03
Left Side	133322/683	20M QPSK(1,49)	0.027	0.018	2.45	22.00	22.00	0.027	2021/9/03
Bottom Side	133322/683	20M QPSK(1,49)	0.055	0.035	-3.08	22.00	22.00	0.055	2021/9/03
50%RB									
Front Side	133322/683	20M QPSK(50,49)	0.034	0.023	-2.06	21.19	21.50	0.037	2021/9/03
Back Side	133322/683	20M QPSK(50,49)	0.043	0.028	0.75	21.19	21.50	0.046	2021/9/03
Left Side	133322/683	20M QPSK(50,49)	0.015	0.010	-0.63	21.19	21.50	0.016	2021/9/03
Bottom Side	133322/683	20M QPSK(50,49)	0.028	0.019	-1.16	21.19	21.50	0.030	2021/9/03

NOTE: Body SAR test results of LTE Band 71

10.1.15. 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	0.435	0.214	-1.44	13.94	14.00	0.441	2021/8/29
Left Tilt 15 Degree	6/2437	802.11b	0.230	0.111	-2.15	13.94	14.00	0.233	2021/8/29
Right Cheek	6/2437	802.11b	0.413	0.201	1.08	13.94	14.00	0.419	2021/8/29
Right Tilt 15 Degree	6/2437	802.11b	0.192	0.094	-4.68	13.94	14.00	0.195	2021/8/29

NOTE: Head SAR test results of WLAN 2.4G

Test Position of Body with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	6/2437	802.11b	0.096	0.055	-3.50	13.94	14.00	0.097	2021/8/29
Back Side	6/2437	802.11b	0.142	0.083	0.39	13.94	14.00	0.144	2021/8/29
Right Side	6/2437	802.11b	0.032	0.019	-3.07	13.94	14.00	0.032	2021/8/29
Top Side	6/2437	802.11b	0.095	0.054	-2.02	13.94	14.00	0.096	2021/8/29

NOTE: Body SAR test results of WLAN 2.4G

10.1.16. SAR measurement Result of WLAN 5.2G

Test Position of Head	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Left Cheek	40/5200	802.11n HT20	0.151	0.079	3.50	7.98	9.50	0.214	2021/9/12
Left Tilt 15 Degree	40/5200	802.11n HT20	0.085	0.044	-0.36	7.98	9.50	0.121	2021/9/12
Right Cheek	40/5200	802.11n HT20	0.136	0.068	3.77	7.98	9.50	0.193	2021/9/12
Right Tilt 15 Degree	40/5200	802.11n HT20	0.073	0.037	-4.14	7.98	9.50	0.104	2021/9/12

NOTE: Head SAR test results of WLAN 5.2G

Test Position of Body with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift ($\pm 5\%$)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date
			1g	10g					
Front Side	40/5200	802.11n HT20	0.120	0.059	-1.50	7.98	9.50	0.170	2021/9/12
Back Side	40/5200	802.11n HT20	0.192	0.095	2.19	7.98	9.50	0.272	2021/9/12
Right Side	40/5200	802.11n HT20	0.066	0.033	-2.26	7.98	9.50	0.094	2021/9/12
Top Side	40/5200	802.11n HT20	0.115	0.057	-1.62	7.98	9.50	0.163	2021/9/12

NOTE: Body SAR test results of WLAN 5.2G

10.1.17. 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	157/5785	802.11a	0.191	0.084	-4.88	10.61	11.00	0.209	2021/8/28
Left Tilt 15 Degree	157/5785	802.11a	0.101	0.044	0.62	10.61	11.00	0.110	2021/8/28
Right Cheek	157/5785	802.11a	0.164	0.071	1.98	10.61	11.00	0.179	2021/8/28
Right Tilt 15 Degree	157/5785	802.11a	0.088	0.037	4.11	10.61	11.00	0.096	2021/8/28

NOTE: Head SAR test results of WLAN 5.8G

Test Position of Body with 0mm	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	157/5785	802.11a	0.180	0.062	2.32	10.61	11.00	0.197	2021/8/28
Back Side	157/5785	802.11a	0.298	0.105	-2.60	10.61	11.00	0.326	2021/8/28
Right Side	157/5785	802.11a	0.102	0.035	2.36	10.61	11.00	0.112	2021/8/28
Top Side	157/5785	802.11a	0.170	0.059	2.89	10.61	11.00	0.186	2021/8/28

NOTE: Body 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) $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Head	Left Cheek	0.299	0.441	0.740	N/A	N/A
	Left Tilt 15 Degree	0.150	0.233	0.383	N/A	N/A
	Right Cheek	0.268	0.419	0.687	N/A	N/A
	Right Tilt 15 Degree	0.136	0.195	0.331	N/A	N/A

Body	Front Side	0.752	0.097	0.849	N/A	N/A
	Back Side	1.171	0.144	1.315	N/A	N/A
	Left Side	0.369	N/A	0.369	N/A	N/A
	Right Side	0.127	0.032	0.159	N/A	N/A
	Top Side	0.022	0.096	0.118	N/A	N/A
	Bottom Side	0.615	N/A	0.615	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Head	Left Cheek	0.299	0.214	0.513	N/A	N/A
	Left Tilt 15 Degree	0.150	0.121	0.271	N/A	N/A
	Right Cheek	0.268	0.193	0.461	N/A	N/A
	Right Tilt 15 Degree	0.136	0.104	0.240	N/A	N/A
Body	Front Side	0.752	0.197	0.949	N/A	N/A
	Back Side	1.171	0.326	1.497	N/A	N/A
	Left Side	0.369	N/A	0.369	N/A	N/A
	Right Side	0.127	0.112	0.239	N/A	N/A
	Top Side	0.022	0.186	0.208	N/A	N/A
	Bottom Side	0.615	N/A	0.615	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Head	Left Cheek	0.299	0.033	0.332	N/A	N/A
	Left Tilt 15 Degree	0.150	0.033	0.183	N/A	N/A
	Right Cheek	0.268	0.033	0.301	N/A	N/A
	Right Tilt 15 Degree	0.136	0.033	0.169	N/A	N/A
Body	Front Side	0.752	0.017	0.769	N/A	N/A
	Back Side	1.171	0.017	1.188	N/A	N/A
	Left Side	0.369	N/A	0.369	N/A	N/A
	Right Side	0.127	0.017	0.144	N/A	N/A
	Top Side	0.022	0.017	0.039	N/A	N/A
	Bottom Side	0.615	N/A	0.615	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
MEASUREMENT 3 System Performance Check - 1800MHz
MEASUREMENT 4 System Performance Check - 1900MHz
MEASUREMENT 5 System Performance Check - 2450MHz
MEASUREMENT 6 System Performance Check - 2600MHz
MEASUREMENT 7 System Performance Check - 5200MHz
MEASUREMENT 8 System Performance Check - 5800MHz

MEASUREMENT 1

Date of measurement: 3/9/2020

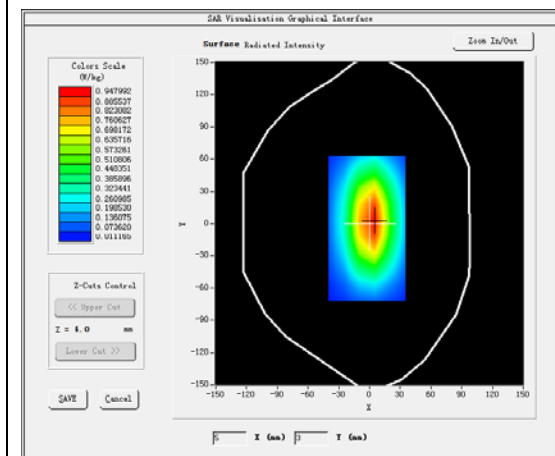
A. Experimental conditions.

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

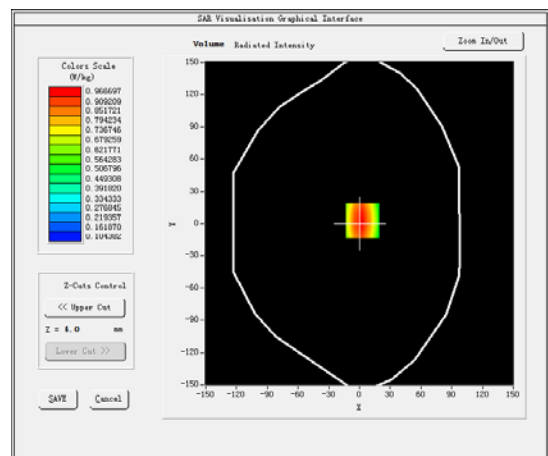
B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.966298
Relative permittivity (imaginary part)	21.435777
Conductivity (S/m)	0.893157
Variation (%)	-1.810000

SURFACE SAR



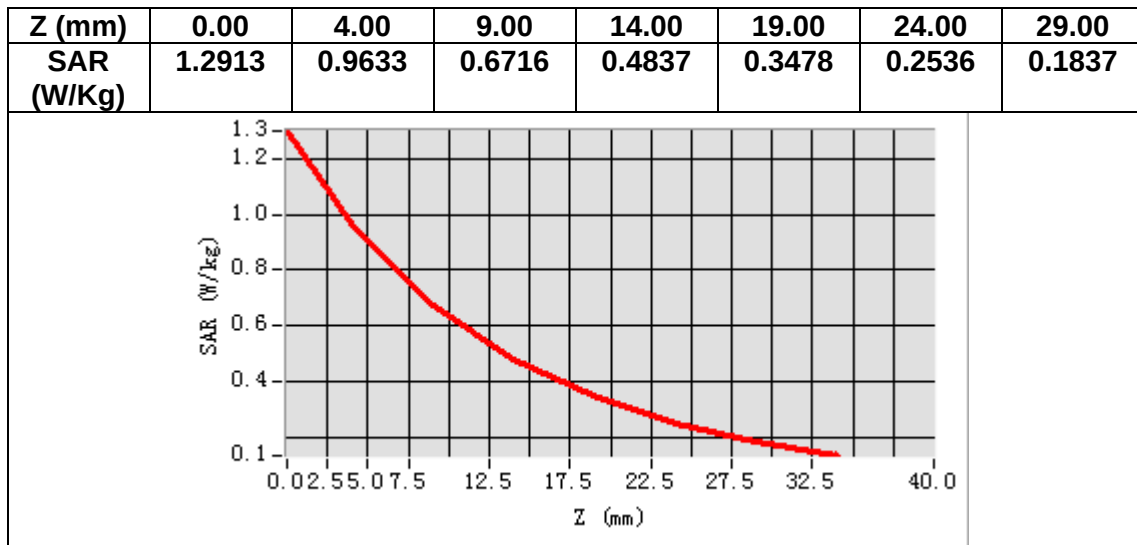
VOLUME SAR



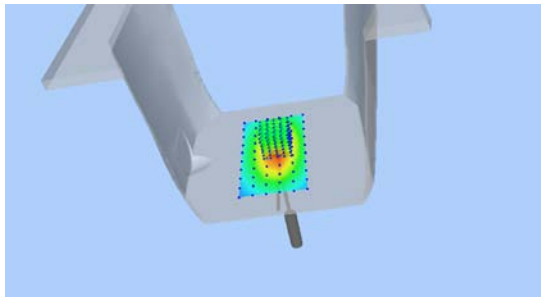
Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

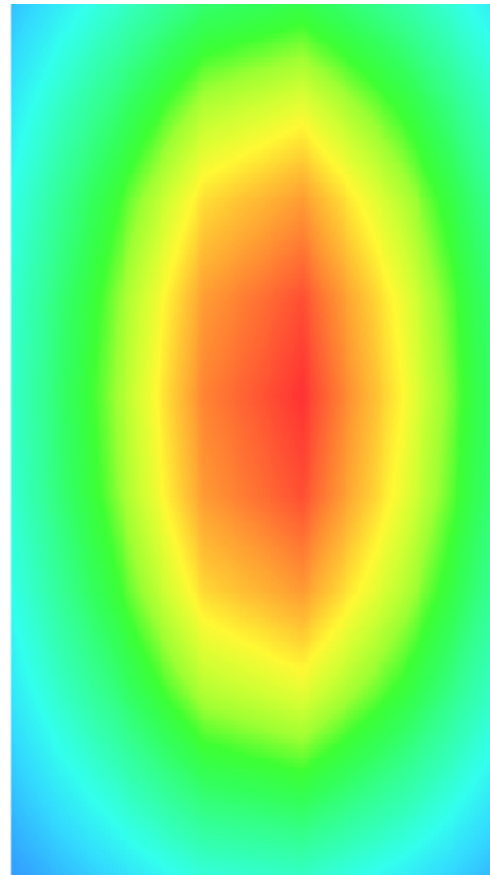
SAR 10g (W/Kg)	0.547218
SAR 1g (W/Kg)	0.854062



3D screen shot



Hot spot position



MEASUREMENT 2

Date of measurement: 13/9/2020

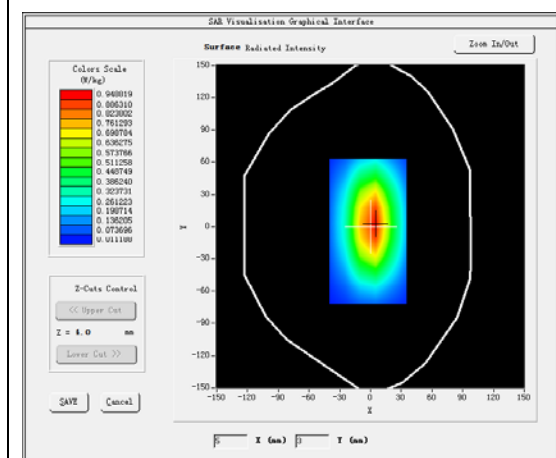
A. Experimental conditions.

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

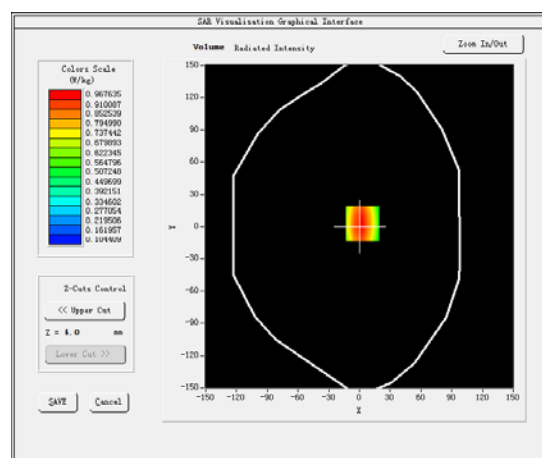
B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	43.172807
Relative permittivity (imaginary part)	19.283209
Conductivity (S/m)	0.894527
Variation (%)	0.770000

SURFACE SAR



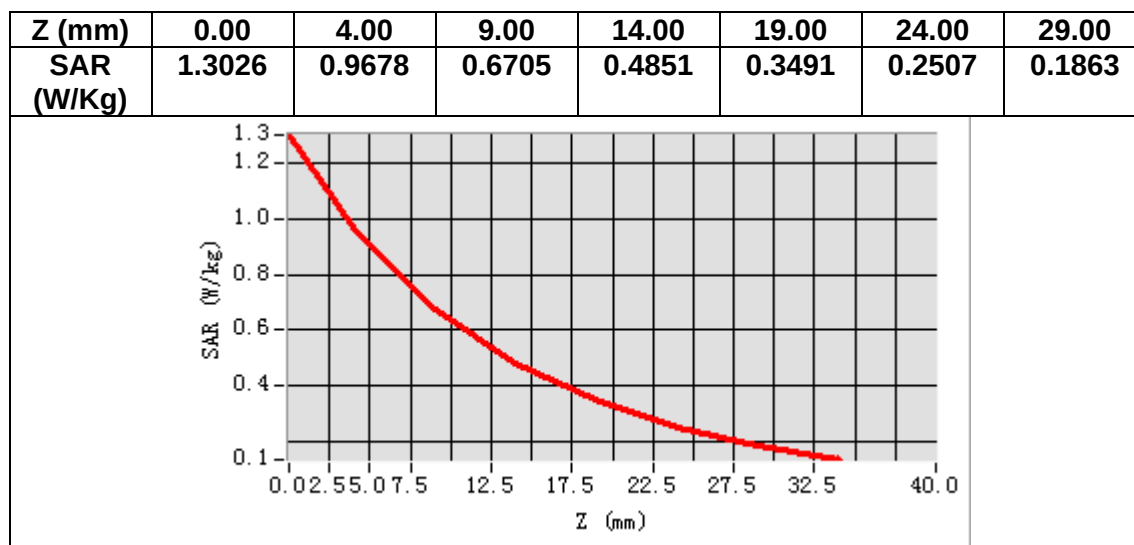
VOLUME SAR



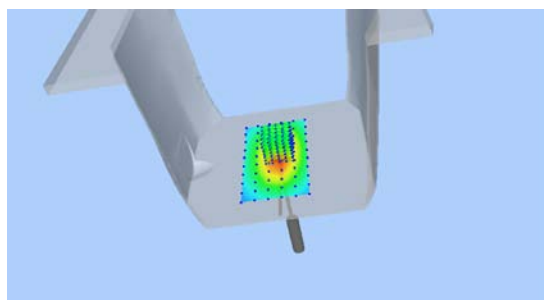
Maximum location: X=3.00, Y=3.00

SAR Peak: 1.30 W/kg

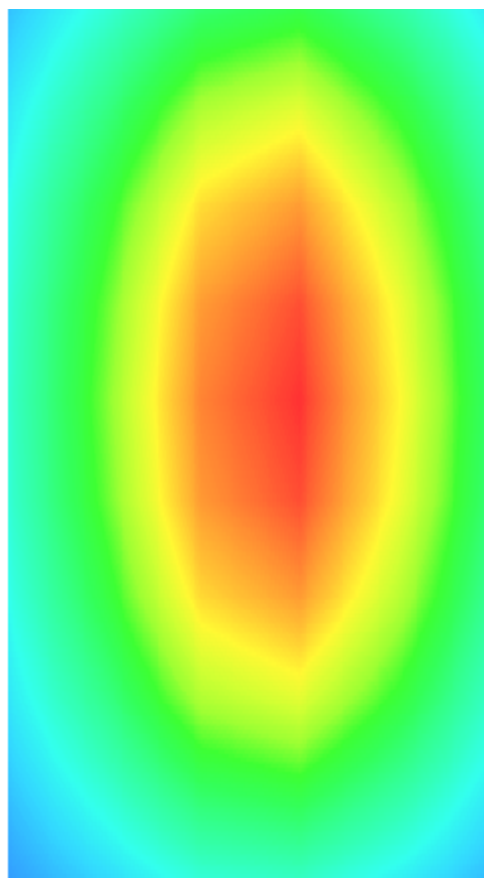
SAR 10g (W/Kg)	0.677428
SAR 1g (W/Kg)	0.991113



3D screen shot



Hot spot position



MEASUREMENT 3

Date of measurement: 2/9/2020

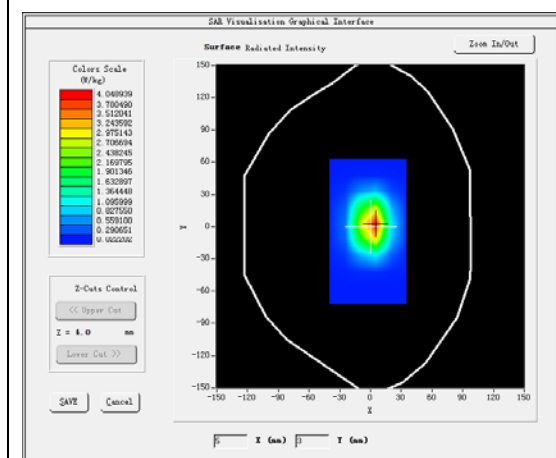
A. Experimental conditions.

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

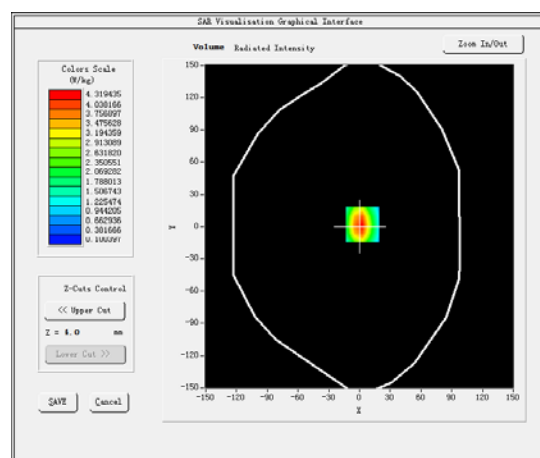
B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.853924
Relative permittivity (imaginary part)	13.861417
Conductivity (S/m)	1.386142
Variation (%)	-2.113000

SURFACE SAR



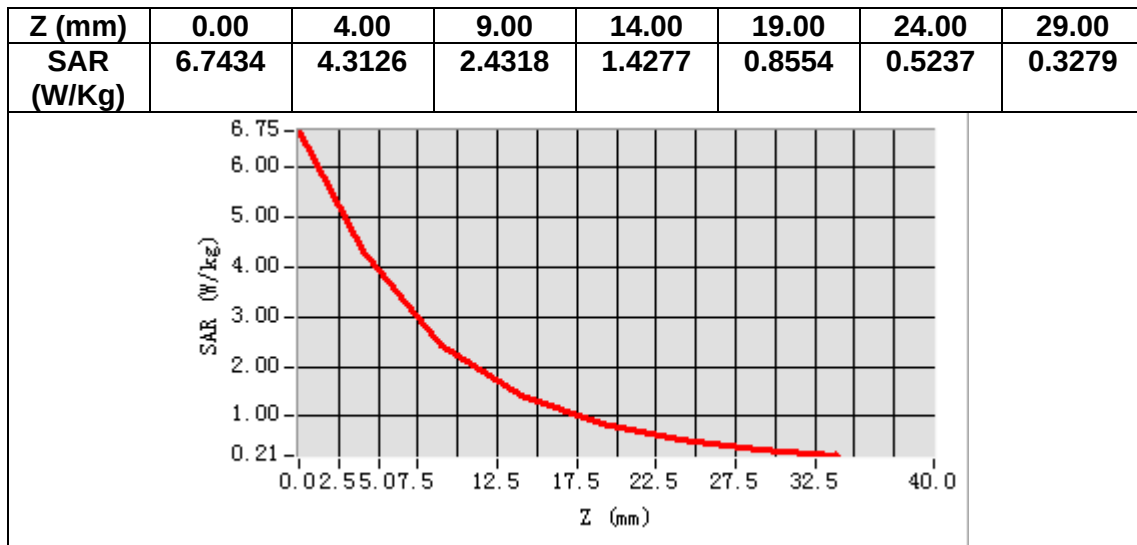
VOLUME SAR



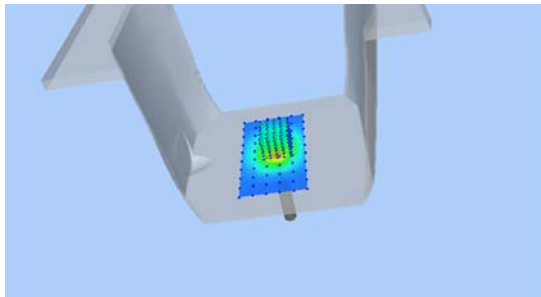
Maximum location: X=3.00, Y=2.00

SAR Peak: 6.82 W/kg

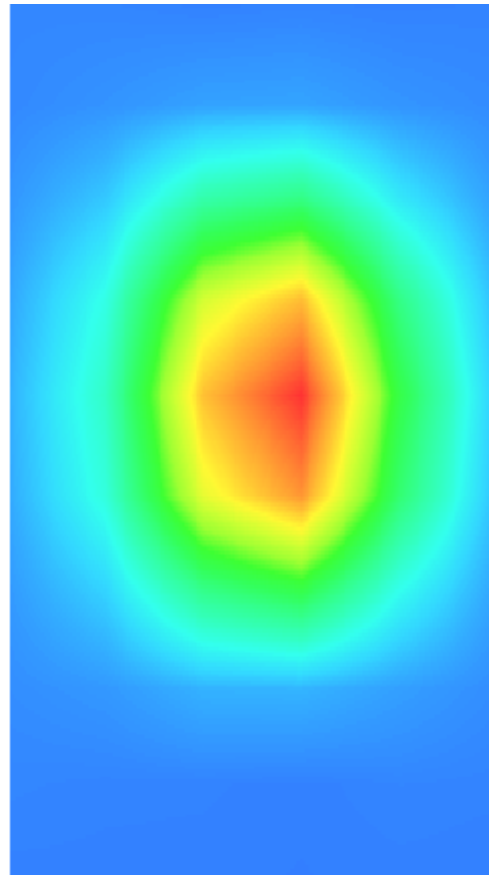
SAR 10g (W/Kg)	1.927397
SAR 1g (W/Kg)	3.670451



3D screen shot



Hot spot position



MEASUREMENT 4

Date of measurement: 6/9/2020

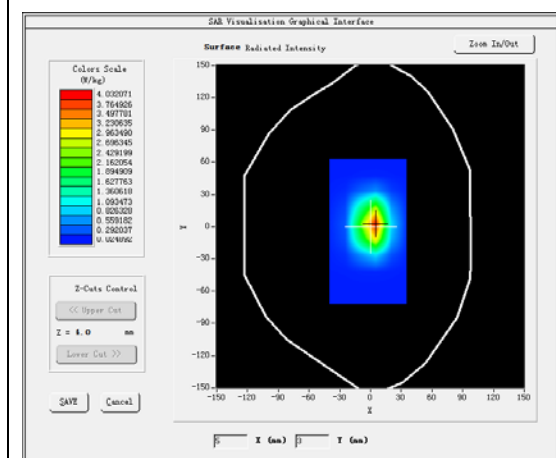
A. Experimental conditions.

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

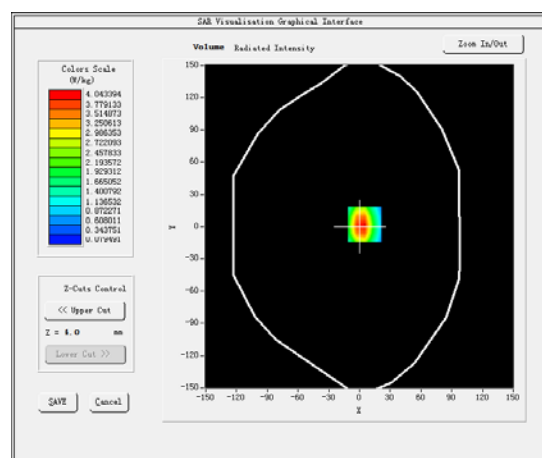
B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.823703
Relative permittivity (imaginary part)	13.622992
Conductivity (S/m)	1.437982
Variation (%)	-1.430000

SURFACE SAR



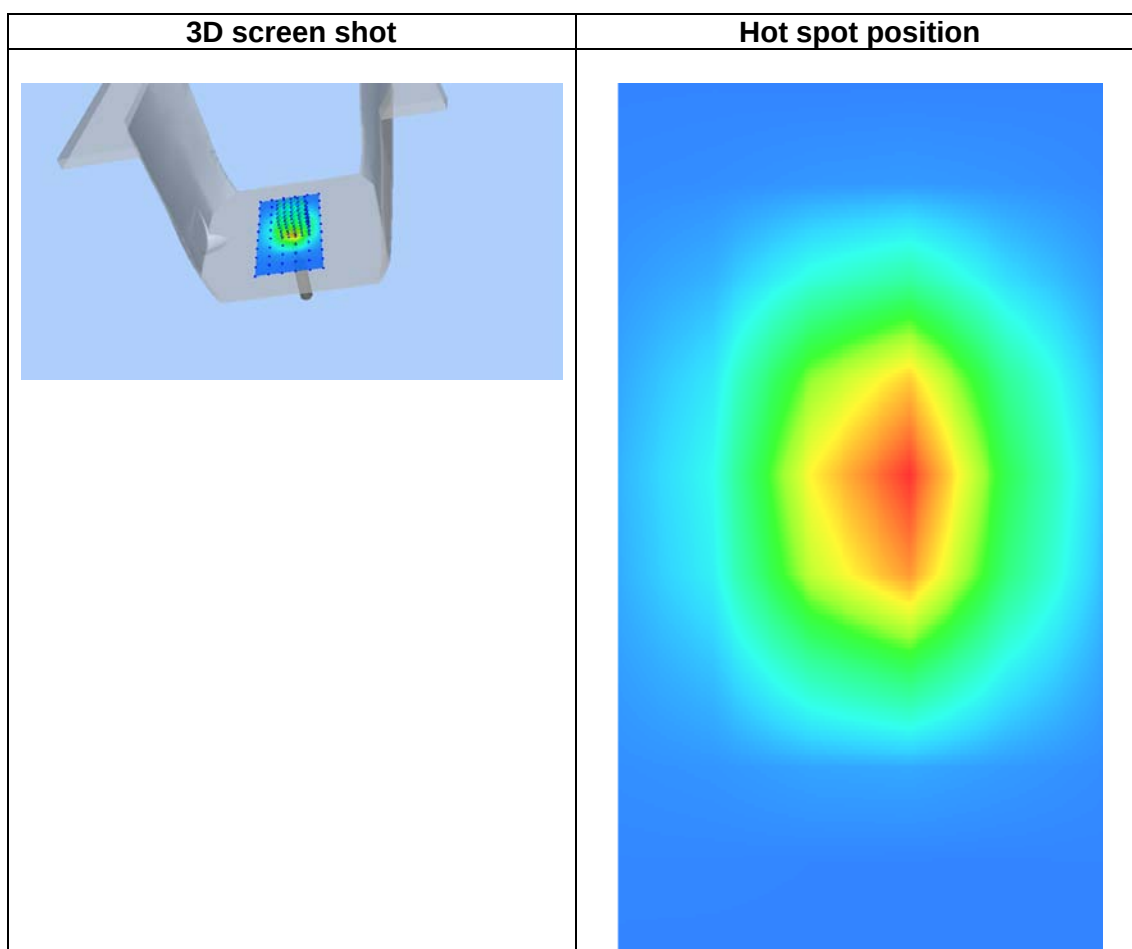
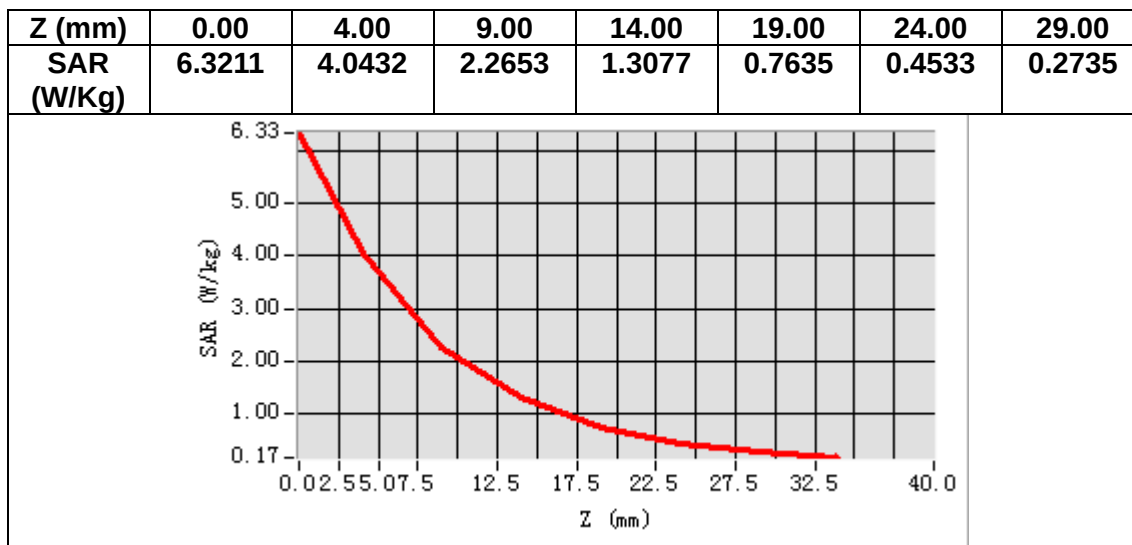
VOLUME SAR



Maximum location: X=5.00, Y=2.00

SAR Peak: 6.70 W/kg

SAR 10g (W/Kg)	1.916452
SAR 1g (W/Kg)	3.949361



MEASUREMENT 5

Date of measurement: 29/8/2020

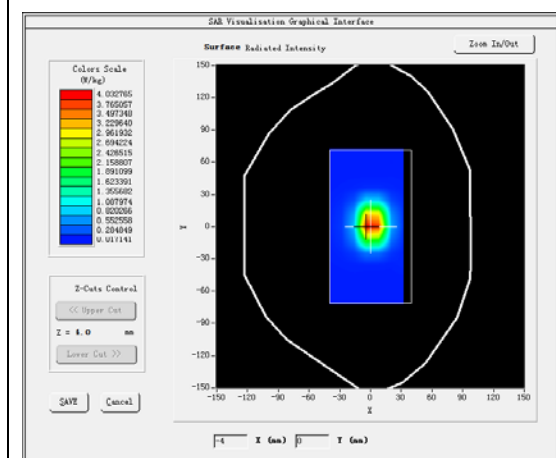
A. Experimental conditions.

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

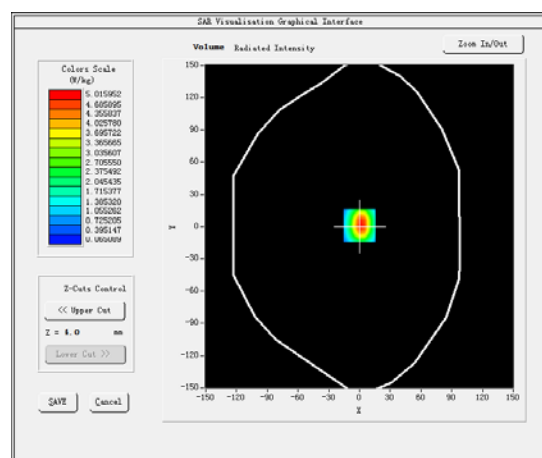
B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	40.956032
Relative permittivity (imaginary part)	13.310959
Conductivity (S/m)	1.811769
Variation (%)	-3.350000

SURFACE SAR



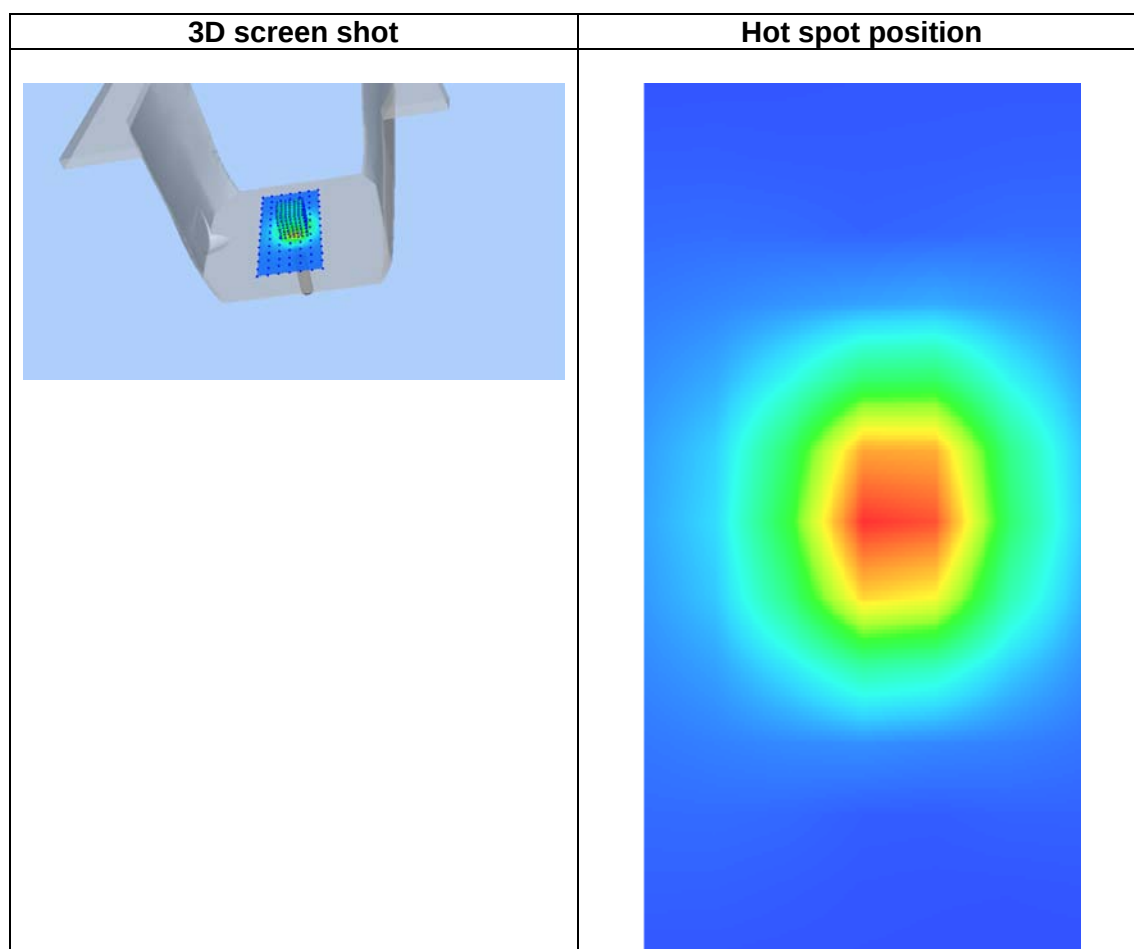
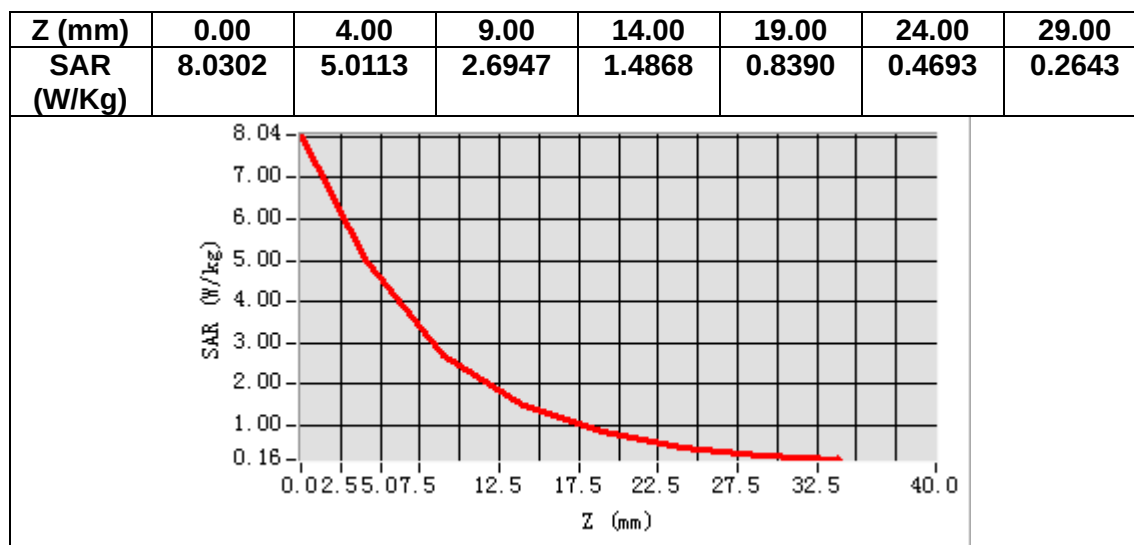
VOLUME SAR



Maximum location: X=0.00, Y=1.00

SAR Peak: 8.14 W/kg

SAR 10g (W/Kg)	2.442175
SAR 1g (W/Kg)	5.451435



MEASUREMENT 6

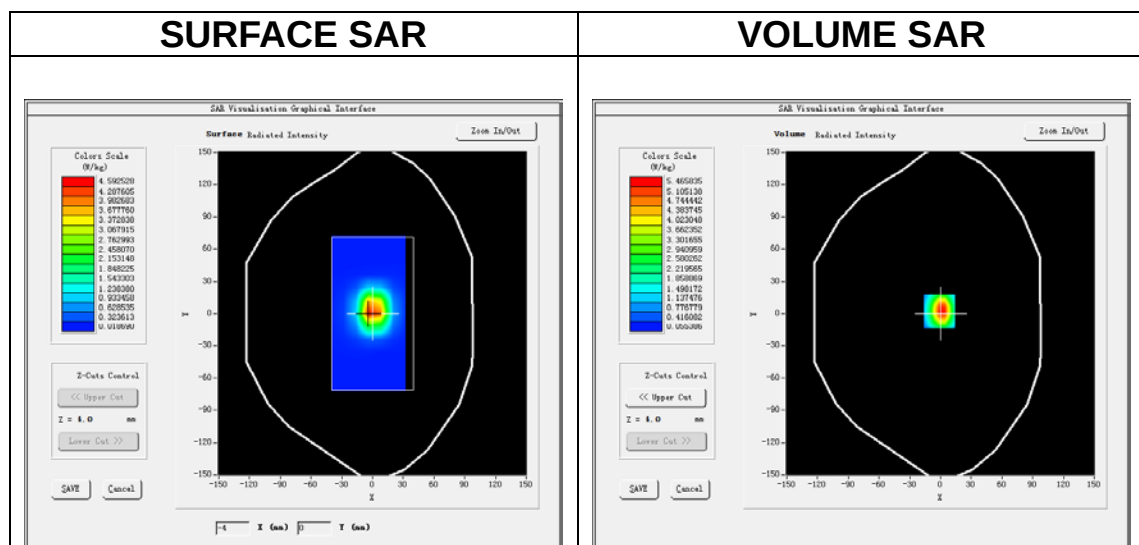
Date of measurement: 8/9/2020

A. Experimental conditions.

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

B. SAR Measurement Results

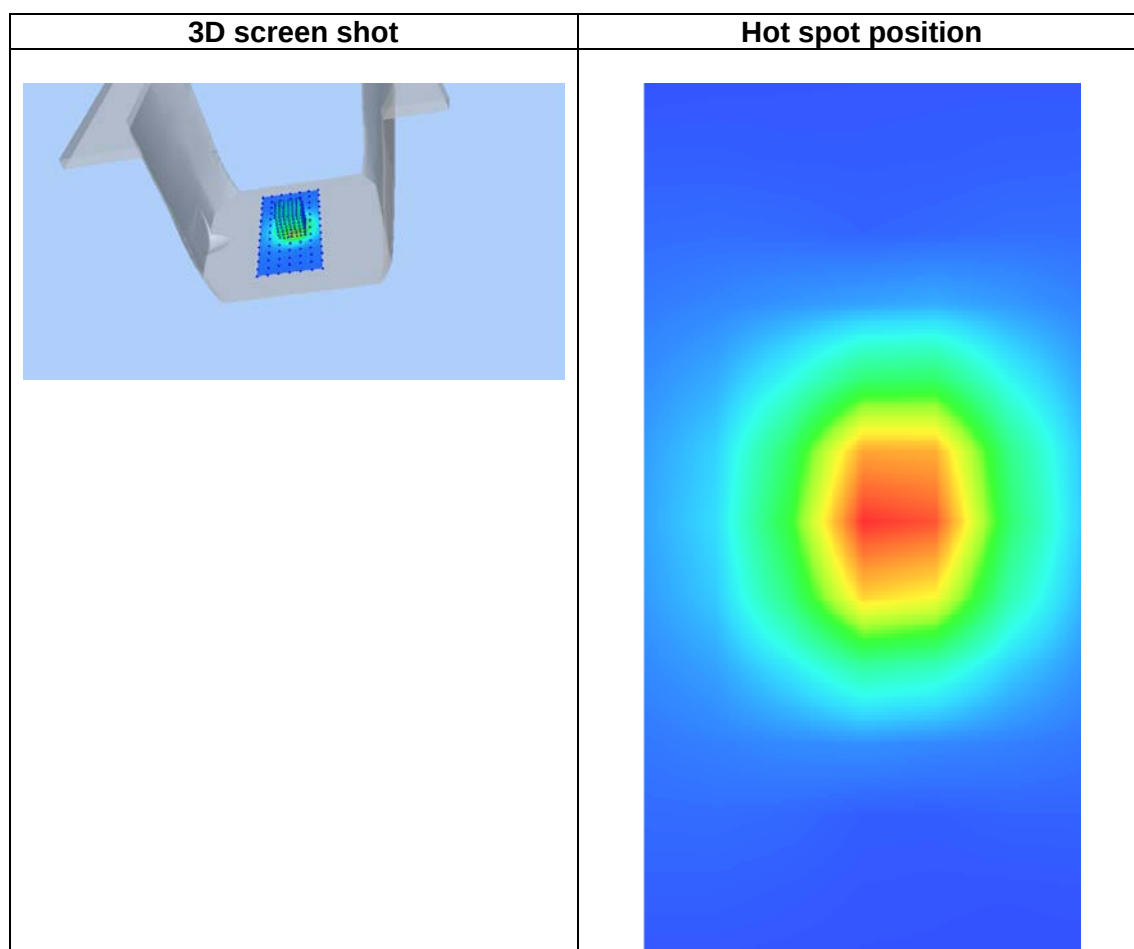
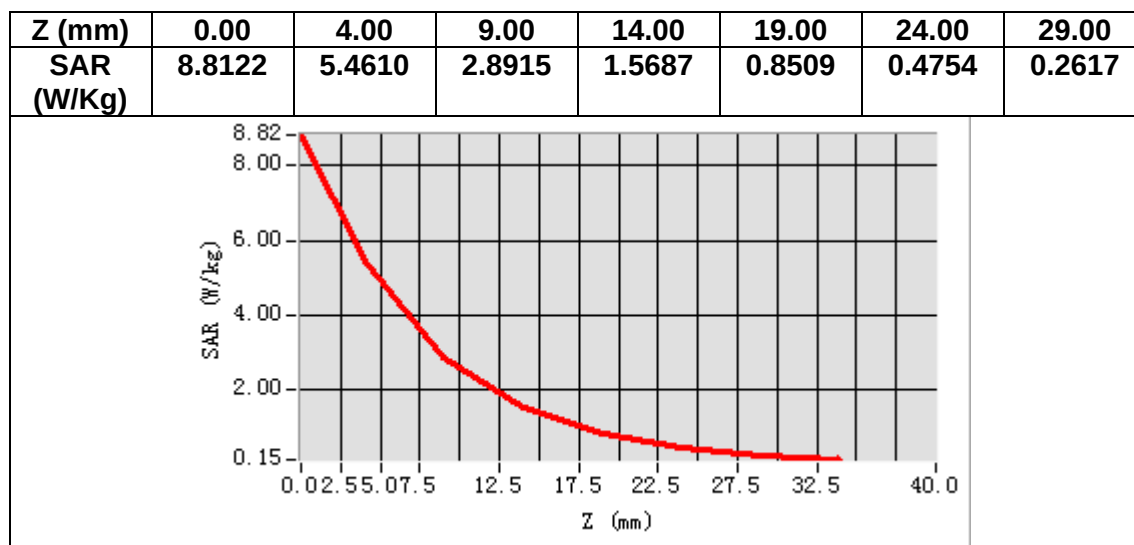
Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.679883
Relative permittivity (imaginary part)	13.562839
Conductivity (S/m)	1.959077
Variation (%)	-0.040000



Maximum location: X=-1.00, Y=2.00

SAR Peak: 9.07 W/kg

SAR 10g (W/Kg)	2.446031
SAR 1g (W/Kg)	5.300267



MEASUREMENT 7

Date of measurement: 12/9/2020

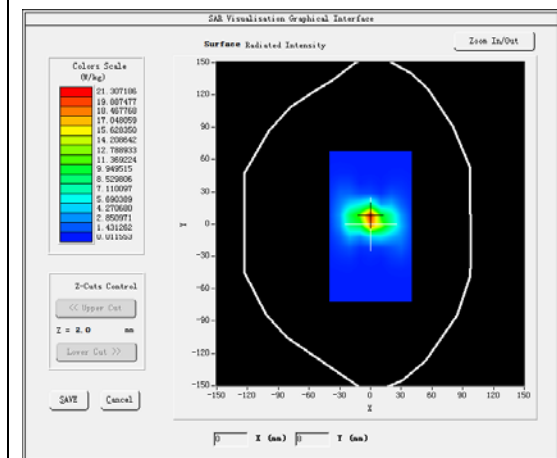
A. Experimental conditions.

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

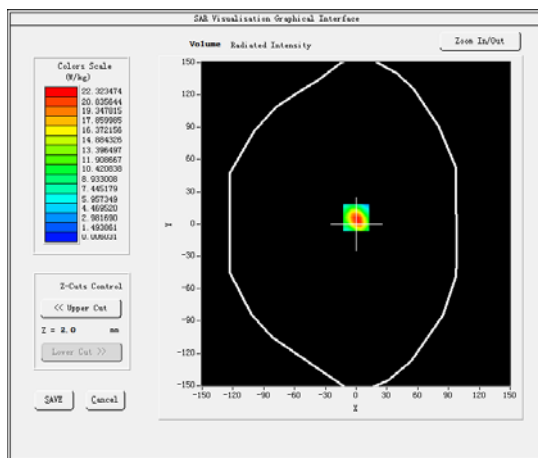
B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.396885
Relative permittivity (imaginary part)	16.163410
Conductivity (S/m)	4.669430
Variation (%)	2.880000

SURFACE SAR



VOLUME SAR

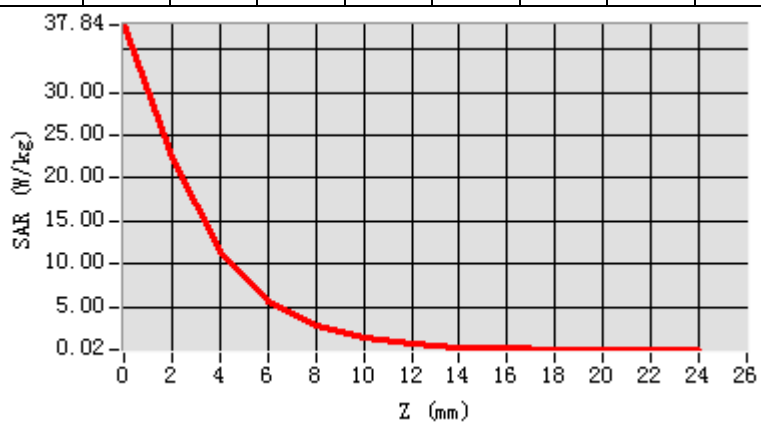


Maximum location: X=0.00, Y=6.00

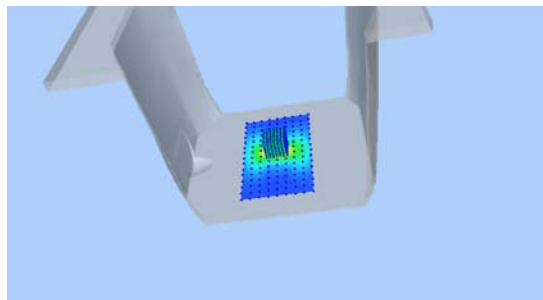
SAR Peak: 40.06 W/kg

SAR 10g (W/Kg)	5.803495
SAR 1g (W/Kg)	16.597321

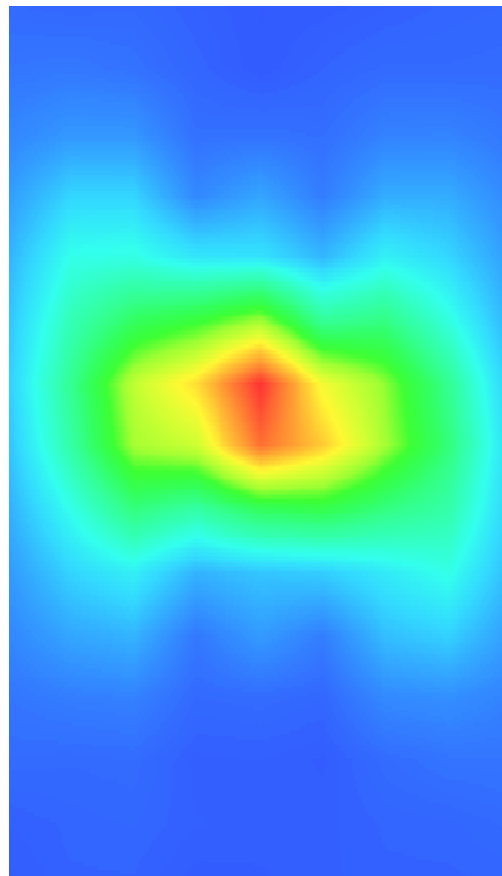
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0 0	12.0 0	14.0 0	16.0 0	18.0 0	20.0 0	22.0 0
SAR (W/ Kg)	37.8 362	22.3 231	11.3 780	5.66 82	2.82 43	1.40 86	0.71 31	0.36 52	0.18 63	0.10 01	0.05 42	0.03 12



3D screen shot



Hot spot position



MEASUREMENT 8

Date of measurement: 28/8/2020

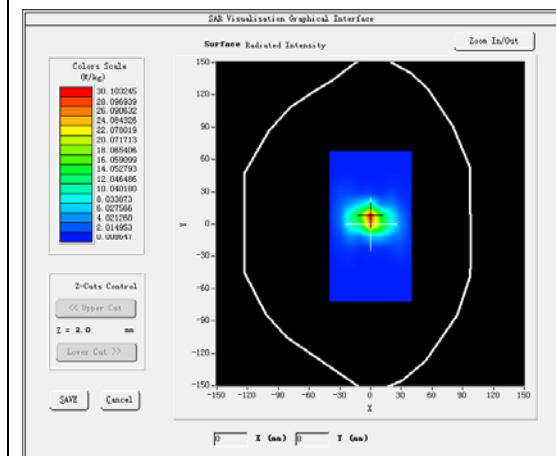
A. Experimental conditions.

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

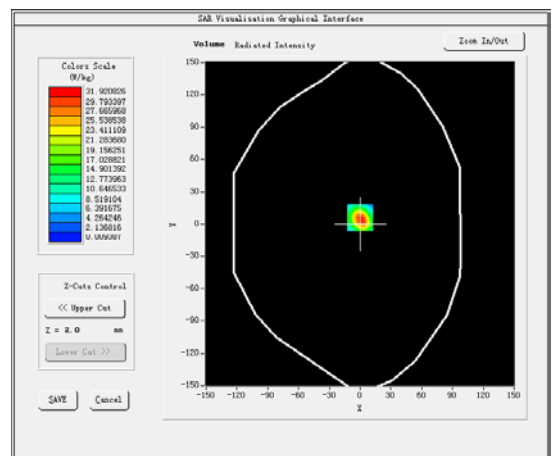
B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative permittivity (real part)	36.223982
Relative permittivity (imaginary part)	16.181454
Conductivity (S/m)	5.214024
Variation (%)	1.350000

SURFACE SAR



VOLUME SAR

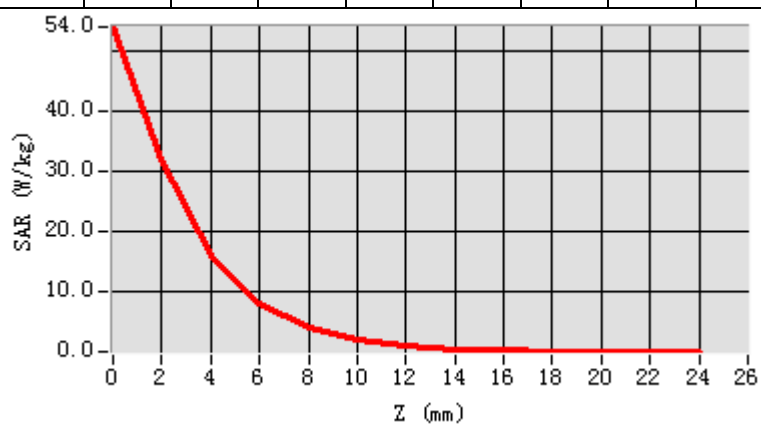


Maximum location: X=0.00, Y=6.00

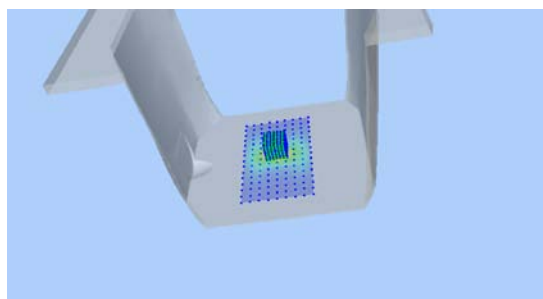
SAR Peak: 57.37 W/kg

SAR 10g (W/Kg)	6.097495
SAR 1g (W/Kg)	18.565463

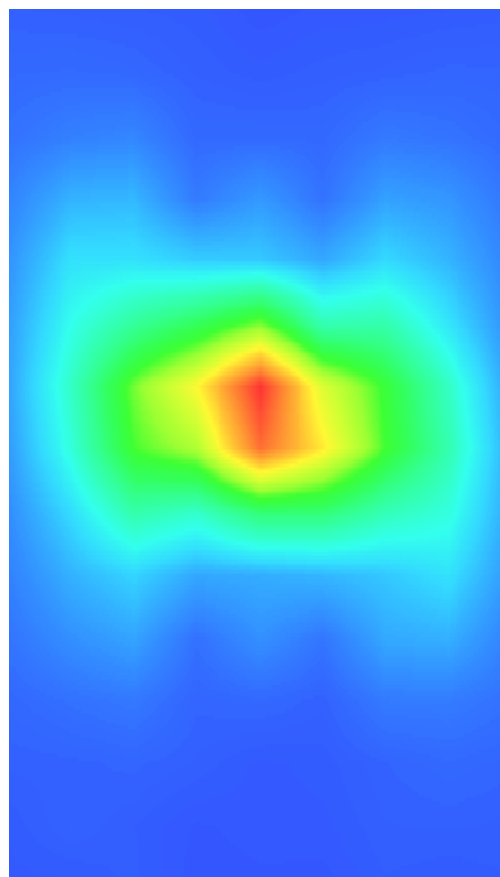
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	54.0 382	31.9 201	16.1 706	8.17 22	4.08 58	2.05 51	1.03 43	0.51 50	0.27 58	0.15 61	0.07 91	0.04 72



3D screen shot



Hot spot position



13. Appendix C. Plots of High SAR Measurement

Table of contents
MEASUREMENT 1 GSM 850 Head
MEASUREMENT 2 GSM 850 Body
MEASUREMENT 3 GSM 1900 Head
MEASUREMENT 4 GSM 1900 Body
MEASUREMENT 5 WCDMA Band 2 Head
MEASUREMENT 6 WCDMA Band 2 Body
MEASUREMENT 7 WCDMA Band 4 Head
MEASUREMENT 8 WCDMA Band 4 Body
MEASUREMENT 9 WCDMA Band 5 Head
MEASUREMENT 10 WCDMA Band 5 Body
MEASUREMENT 11 WLAN 5.2G Head
MEASUREMENT 12 WLAN 5.8G Head
MEASUREMENT 13 WLAN 5.2G Body
MEASUREMENT 14 WLAN 5.8G Body
MEASUREMENT 15 WLAN 2.4G Head
MEASUREMENT 16 WLAN 2.4G Body
MEASUREMENT 17 LTE Band 2 Head
MEASUREMENT 18 LTE Band 2 Body
MEASUREMENT 19 LTE Band 4 Head
MEASUREMENT 20 LTE Band 4 Body
MEASUREMENT 21 LTE Band 5 Head
MEASUREMENT 22 LTE Band 5 Body
MEASUREMENT 23 LTE Band 7 Head
MEASUREMENT 24 LTE Band 7 Body
MEASUREMENT 25 LTE Band 12 Head
MEASUREMENT 26 LTE Band 12 Body
MEASUREMENT 27 LTE Band 17 Head
MEASUREMENT 28 LTE Band 17 Body
MEASUREMENT 29 LTE Band 41 Head
MEASUREMENT 30 LTE Band 41 Body
MEASUREMENT 31 LTE Band 66 Head
MEASUREMENT 32 LTE Band 66 Body
MEASUREMENT 33 LTE Band 71 Head
MEASUREMENT 34 LTE Band 71 Body

MEASUREMENT 1

Date of measurement: 13/9/2021

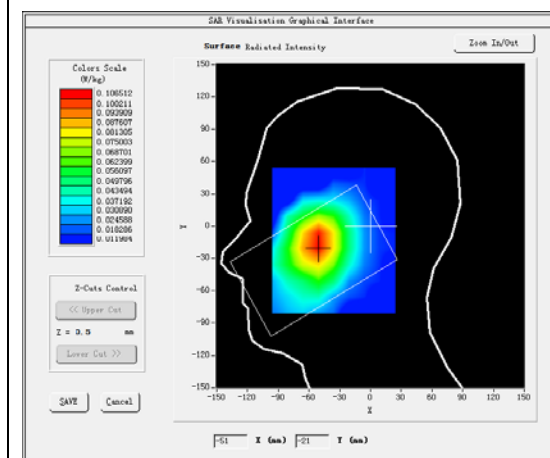
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

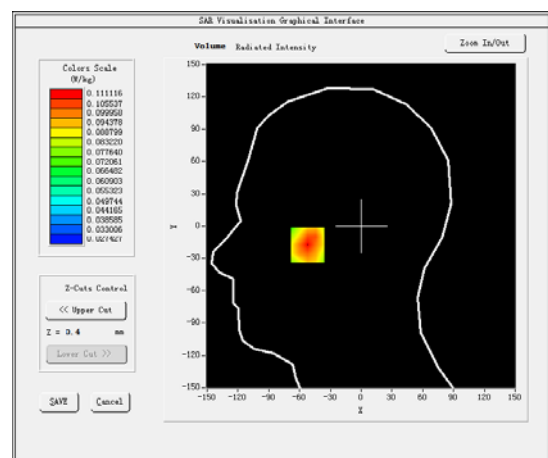
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	43.088467
Relative permittivity (imaginary part)	19.309050
Conductivity (S/m)	0.897227
Variation (%)	3.890000

SURFACE SAR



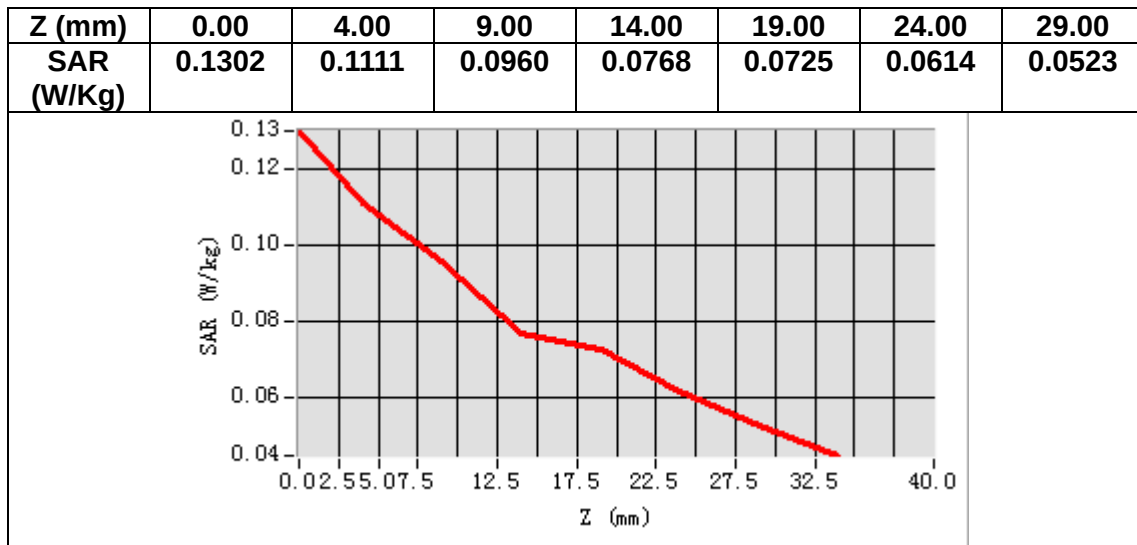
VOLUME SAR



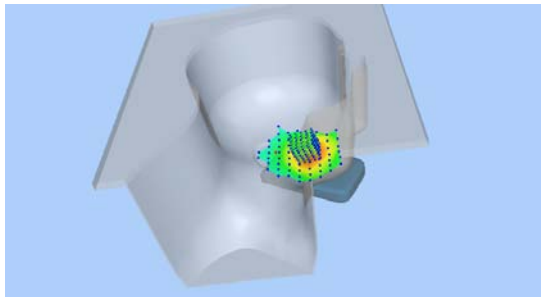
Maximum location: X=-52.00, Y=-17.00

SAR Peak: 0.13 W/kg

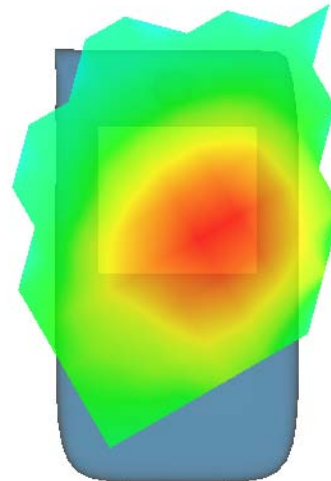
SAR 10g (W/Kg)	0.086197
SAR 1g (W/Kg)	0.109772



3D screen shot



Hot spot position



MEASUREMENT 2

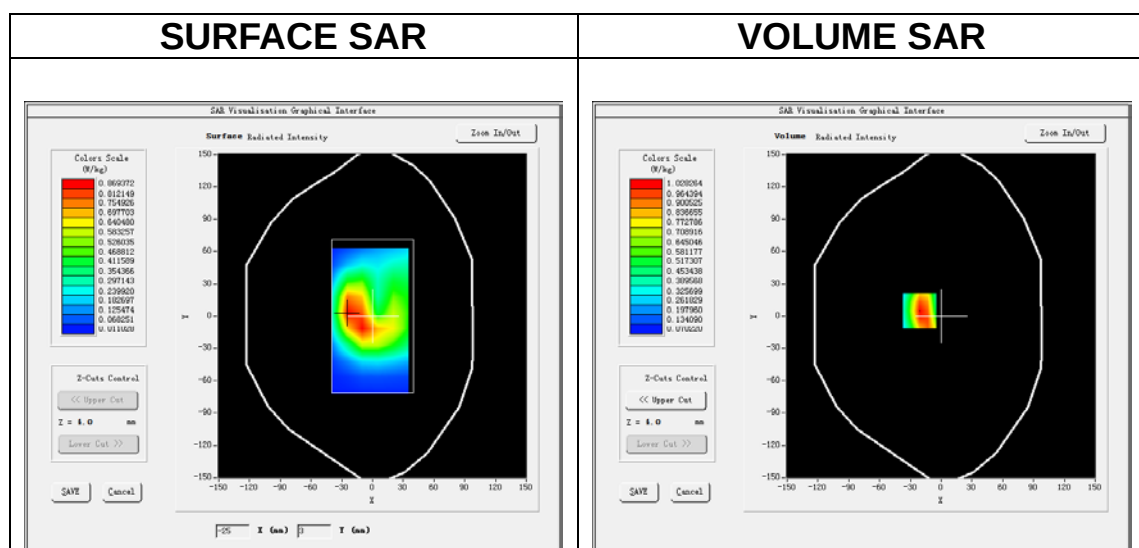
Date of measurement: 13/9/2021

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=15mm dy=15mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 2.0)</u>

B. SAR Measurement Results

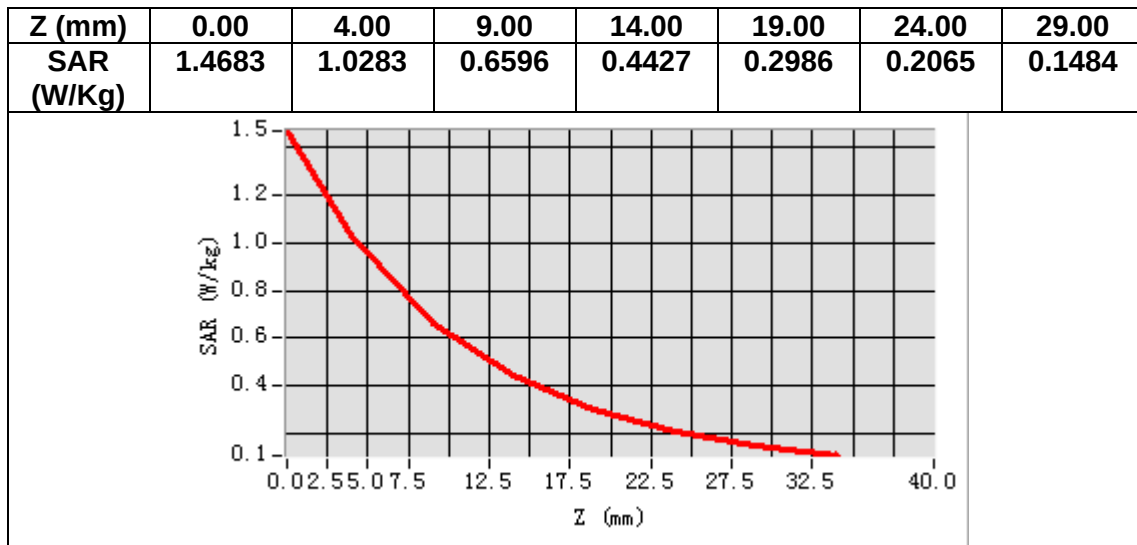
Frequency (MHz)	836.400000
Relative permittivity (real part)	43.088467
Relative permittivity (imaginary part)	19.309050
Conductivity (S/m)	0.897227
Variation (%)	-1.620000



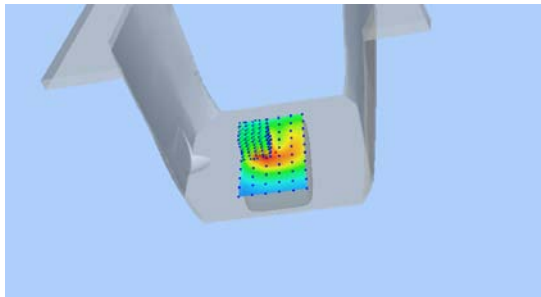
Maximum location: X=-21.00, Y=5.00

SAR Peak: 1.57 W/kg

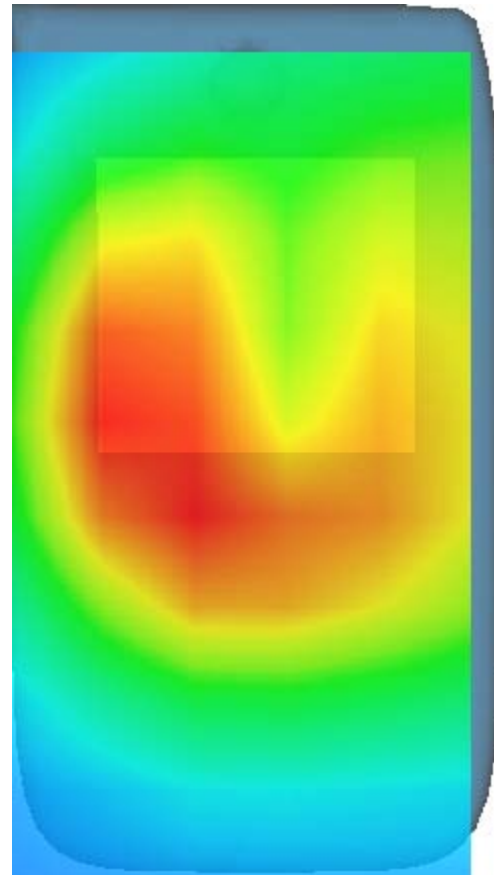
SAR 10g (W/Kg)	0.595910
SAR 1g (W/Kg)	1.017582



3D screen shot



Hot spot position



MEASUREMENT 3

Date of measurement: 6/9/2021

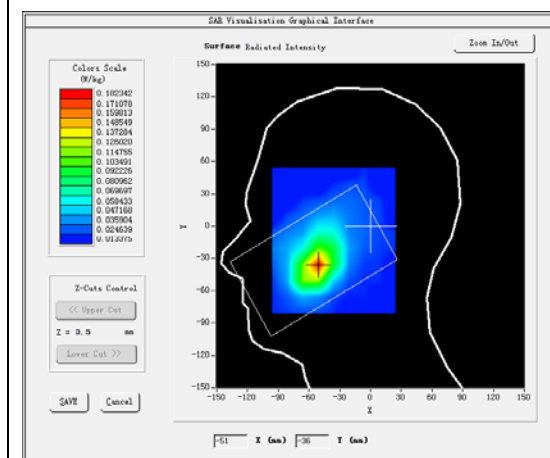
A. Experimental conditions.

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

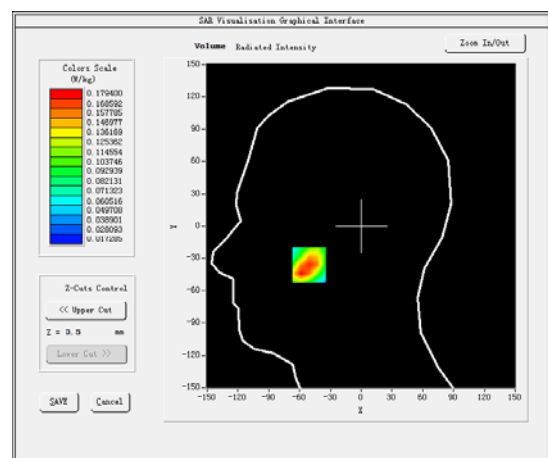
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.910103
Relative permittivity (imaginary part)	13.640792
Conductivity (S/m)	1.424705
Variation (%)	-3.830000

SURFACE SAR



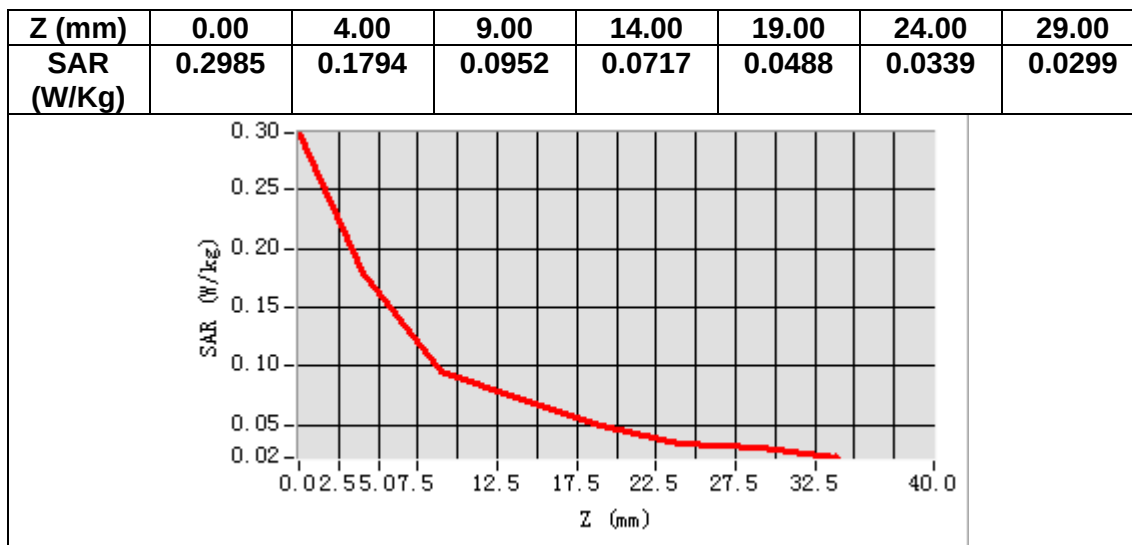
VOLUME SAR



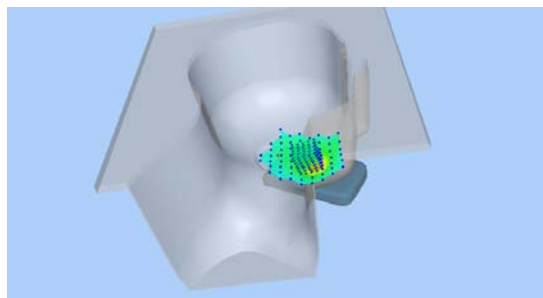
Maximum location: X=-51.00, Y=-36.00

SAR Peak: 0.27 W/kg

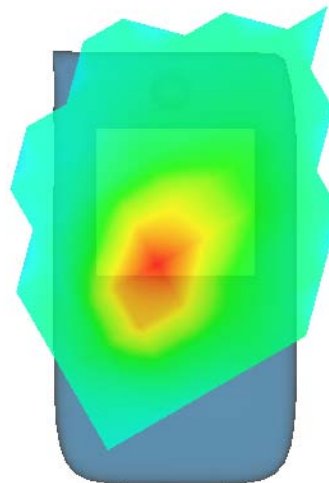
SAR 10g (W/Kg)	0.100860
SAR 1g (W/Kg)	0.173319



3D screen shot



Hot spot position



MEASUREMENT 4

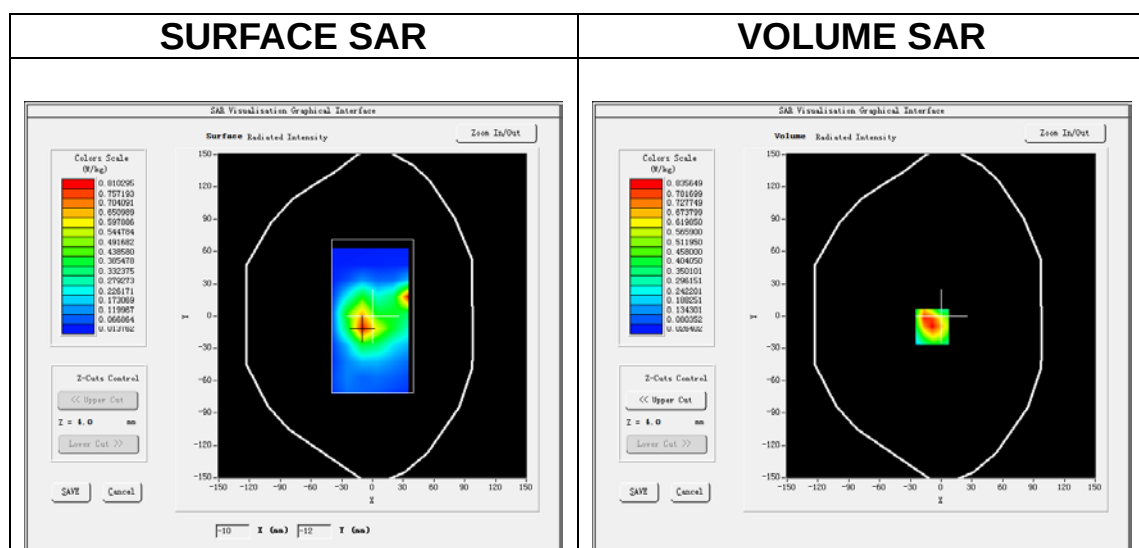
Date of measurement: 6/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

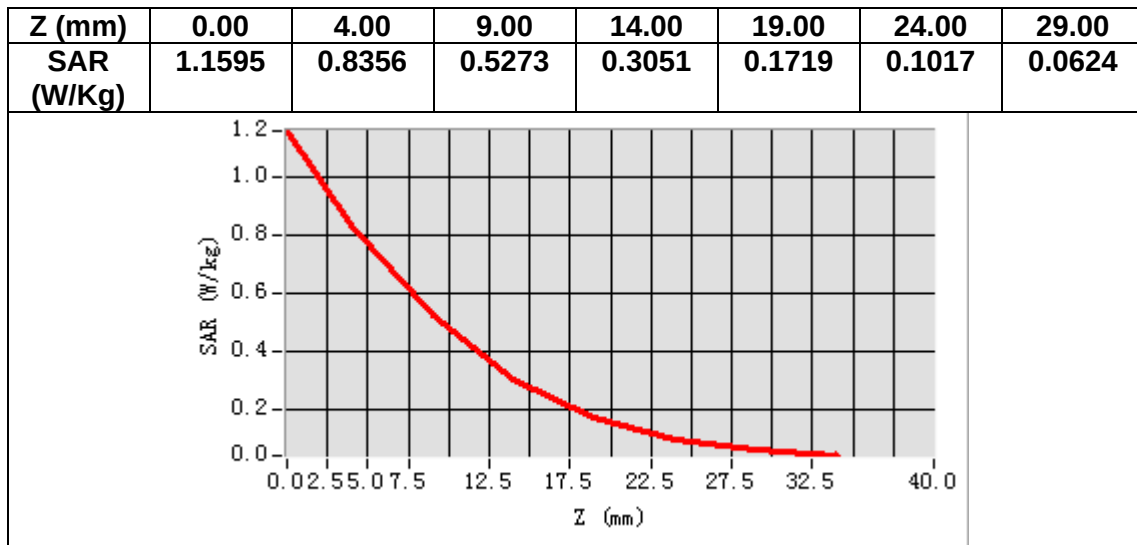
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.910103
Relative permittivity (imaginary part)	13.640792
Conductivity (S/m)	1.424705
Variation (%)	-2.110000



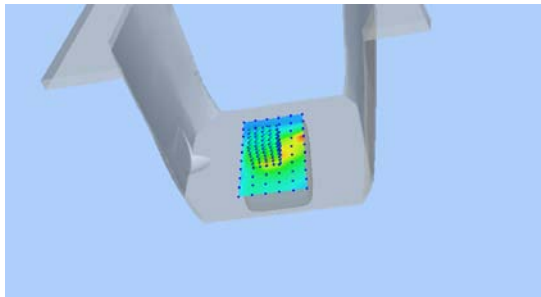
Maximum location: X=-9.00, Y=-10.00

SAR Peak: 1.36 W/kg

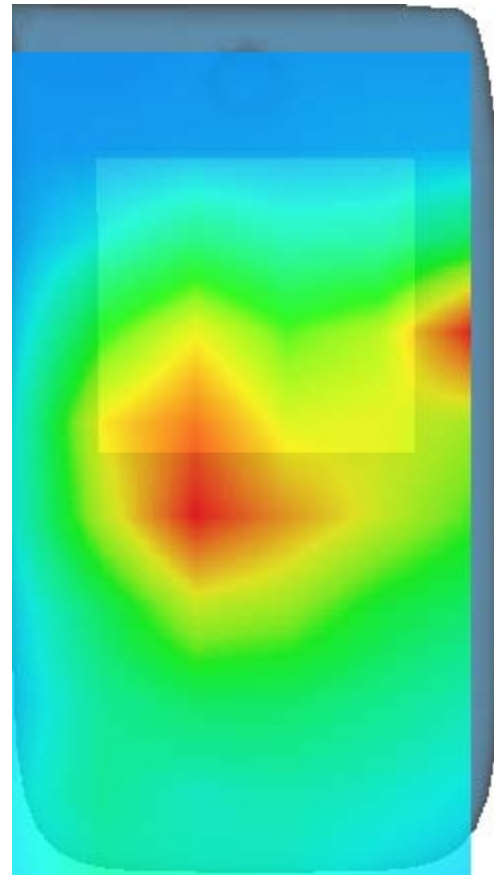
SAR 10g (W/Kg)	0.431803
SAR 1g (W/Kg)	0.814817



3D screen shot



Hot spot position



MEASUREMENT 5

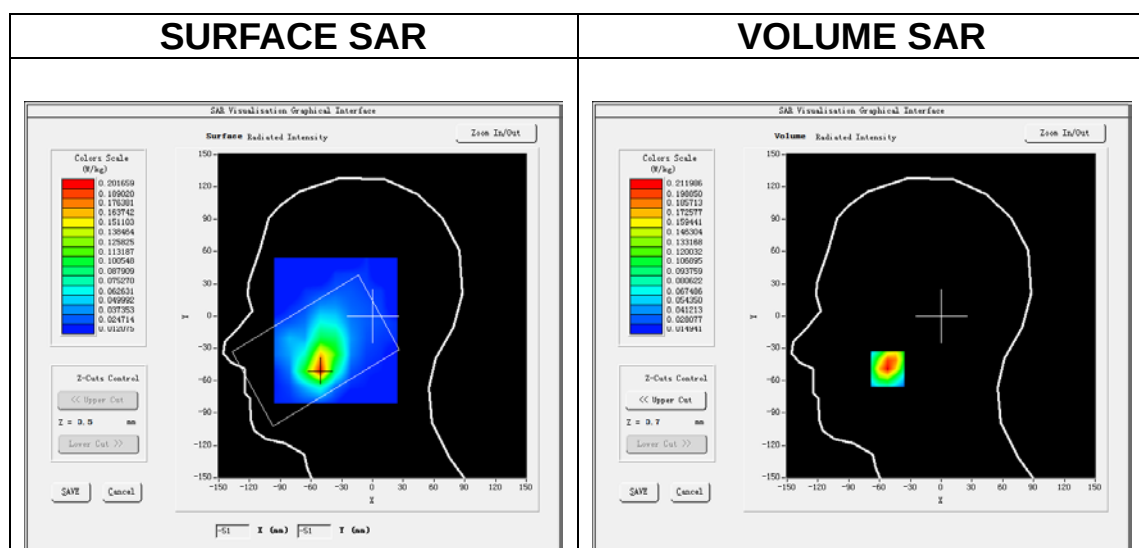
Date of measurement: 6/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

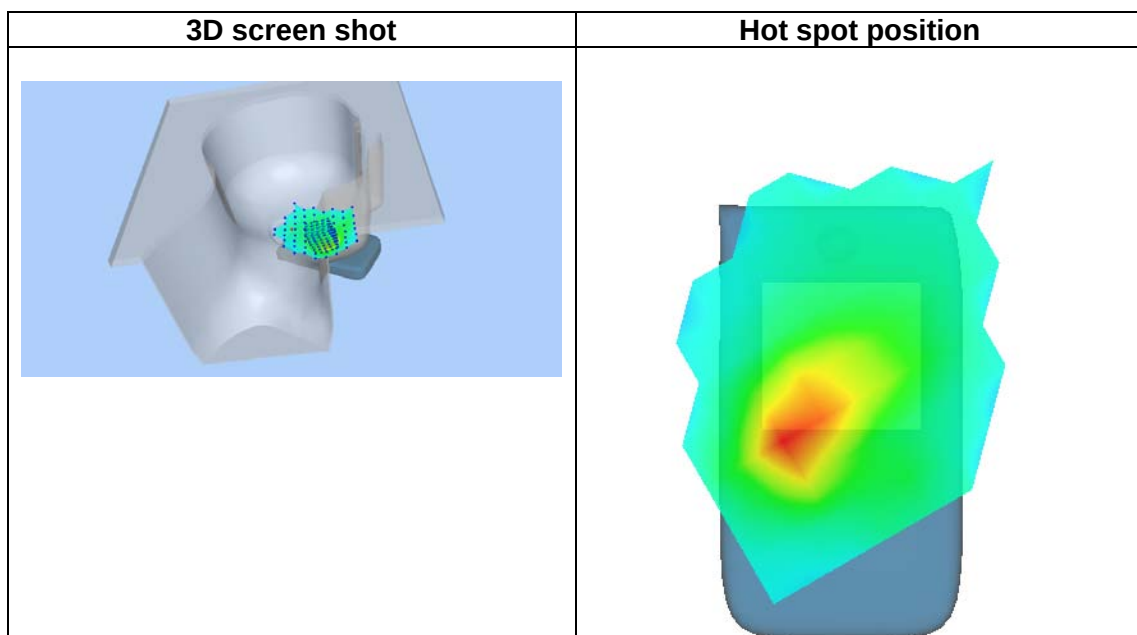
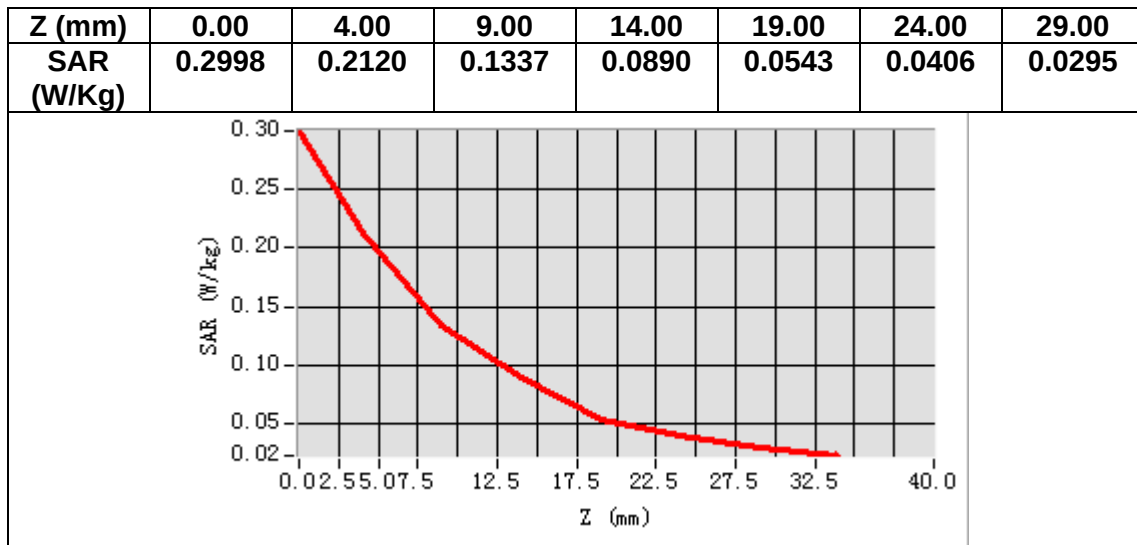
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.910103
Relative permittivity (imaginary part)	13.640792
Conductivity (S/m)	1.424705
Variation (%)	0.690000



Maximum location: X=-52.00, Y=-49.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.115499
SAR 1g (W/Kg)	0.202810



MEASUREMENT 6

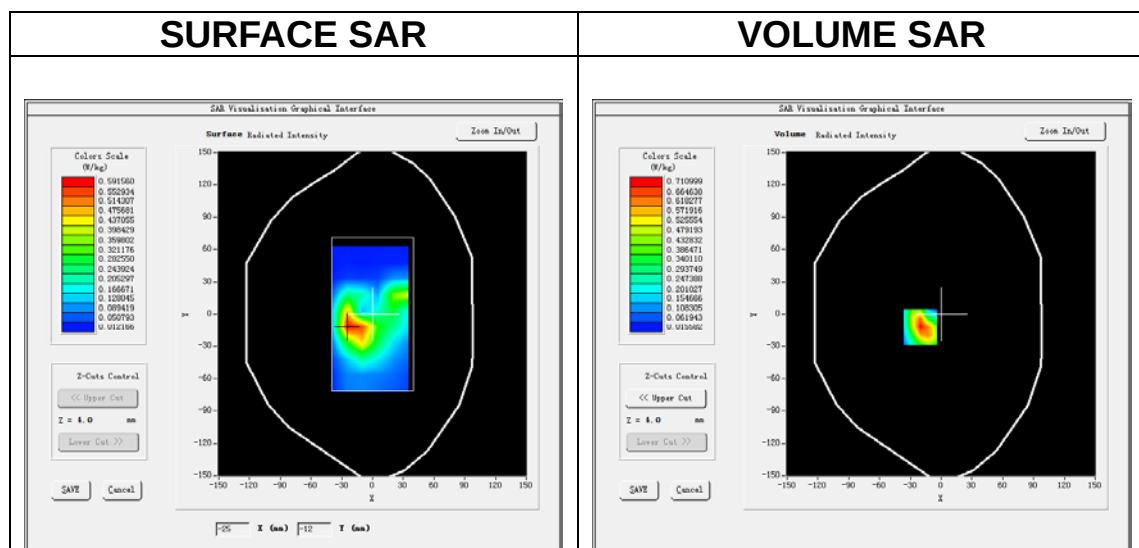
Date of measurement: 6/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

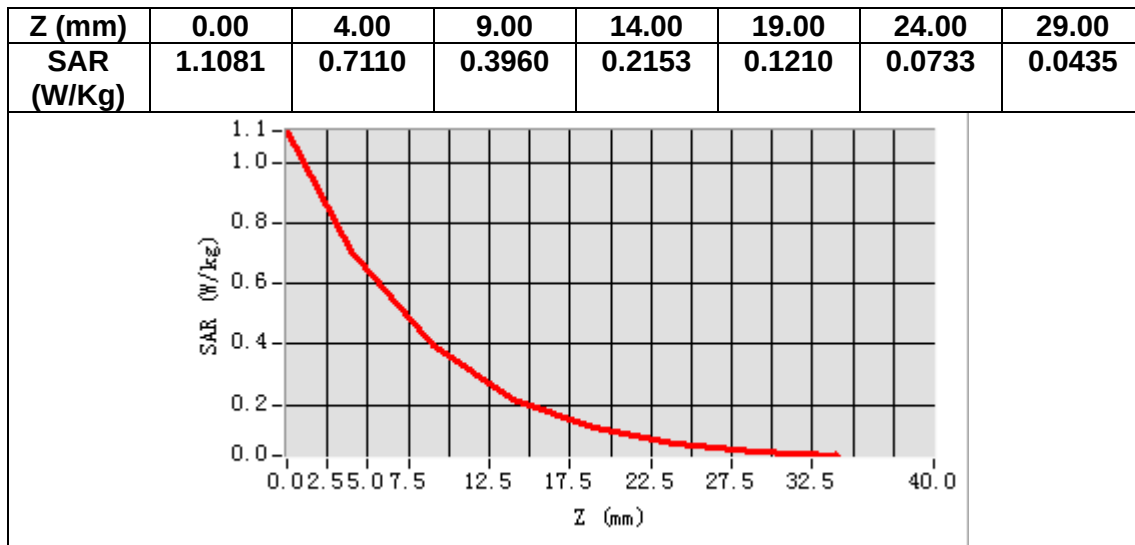
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.910103
Relative permittivity (imaginary part)	13.640792
Conductivity (S/m)	1.424705
Variation (%)	-0.840000



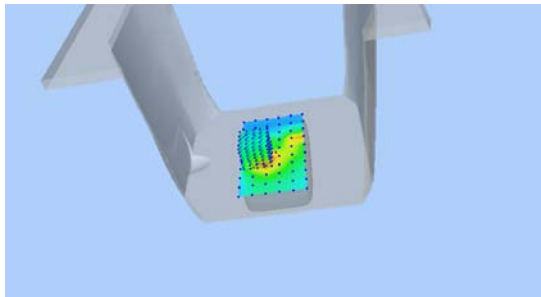
Maximum location: X=-20.00, Y=-12.00

SAR Peak: 1.15 W/kg

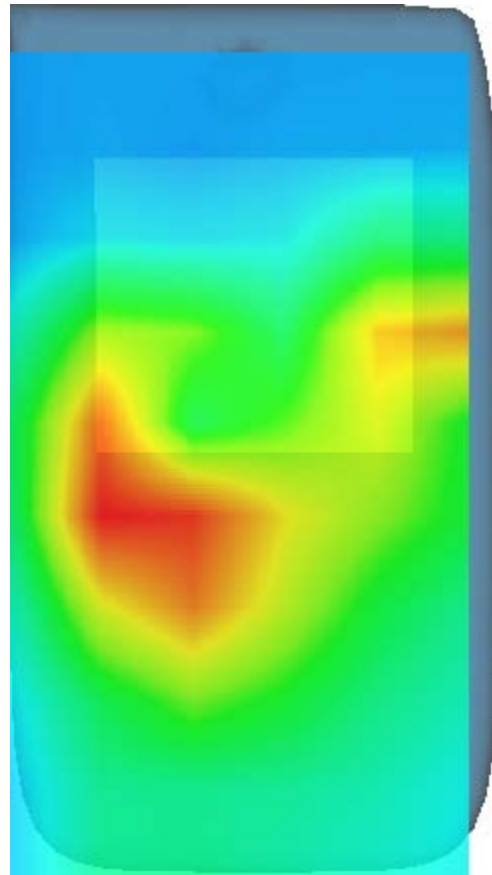
SAR 10g (W/Kg)	0.345151
SAR 1g (W/Kg)	0.669315



3D screen shot



Hot spot position



MEASUREMENT 7

Date of measurement: 2/9/2021

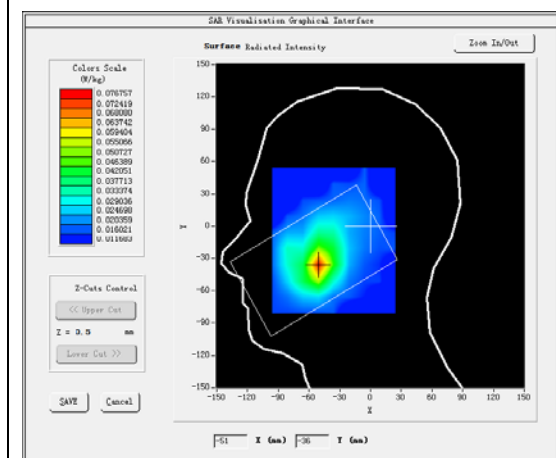
A. Experimental conditions.

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

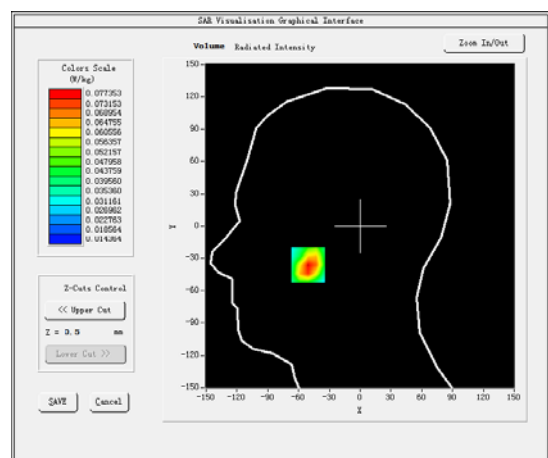
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	40.313625
Relative permittivity (imaginary part)	13.813717
Conductivity (S/m)	1.329187
Variation (%)	3.670000

SURFACE SAR



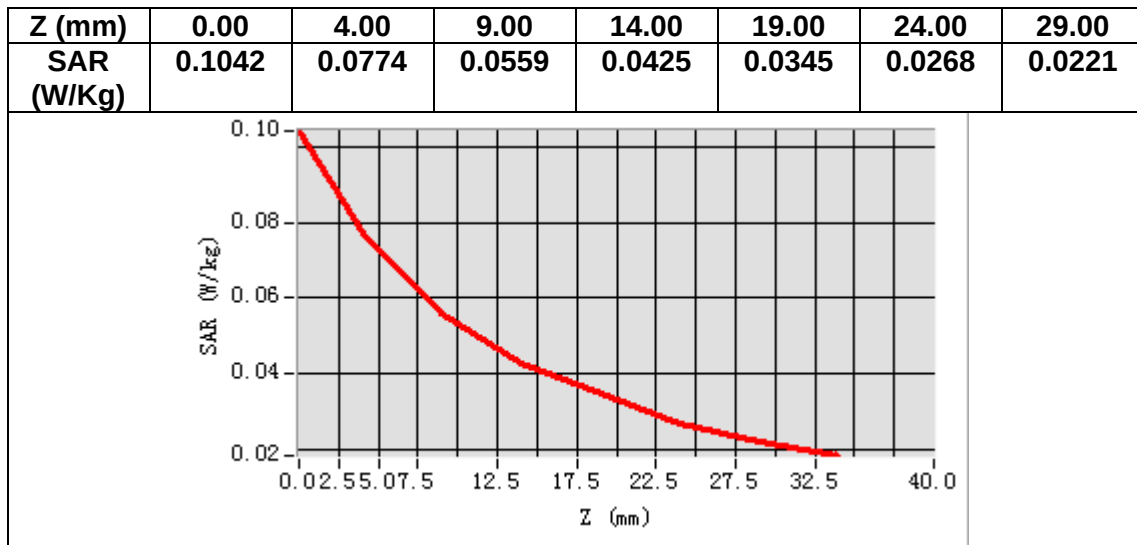
VOLUME SAR



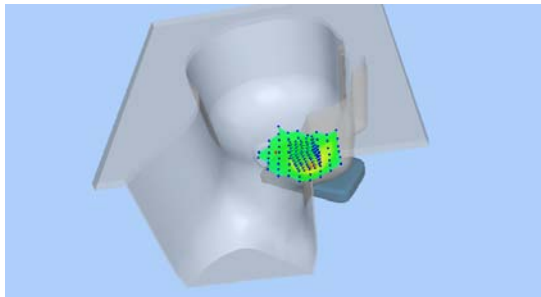
Maximum location: X=-51.00, Y=-36.00

SAR Peak: 0.11 W/kg

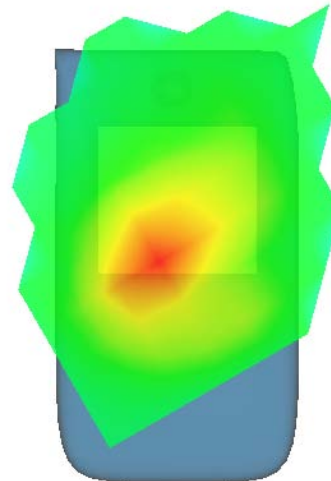
SAR 10g (W/Kg)	0.047879
SAR 1g (W/Kg)	0.076417



3D screen shot



Hot spot position



MEASUREMENT 8

Date of measurement: 2/9/2021

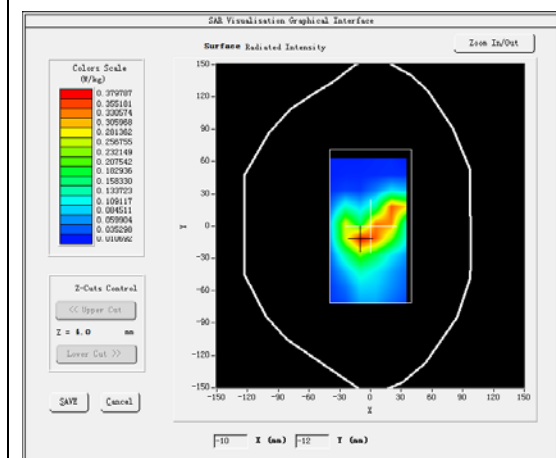
A. Experimental conditions.

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

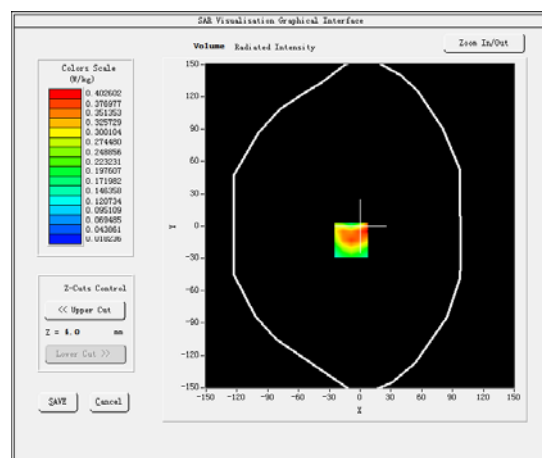
B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative permittivity (real part)	40.313625
Relative permittivity (imaginary part)	13.813717
Conductivity (S/m)	1.329187
Variation (%)	0.070000

SURFACE SAR



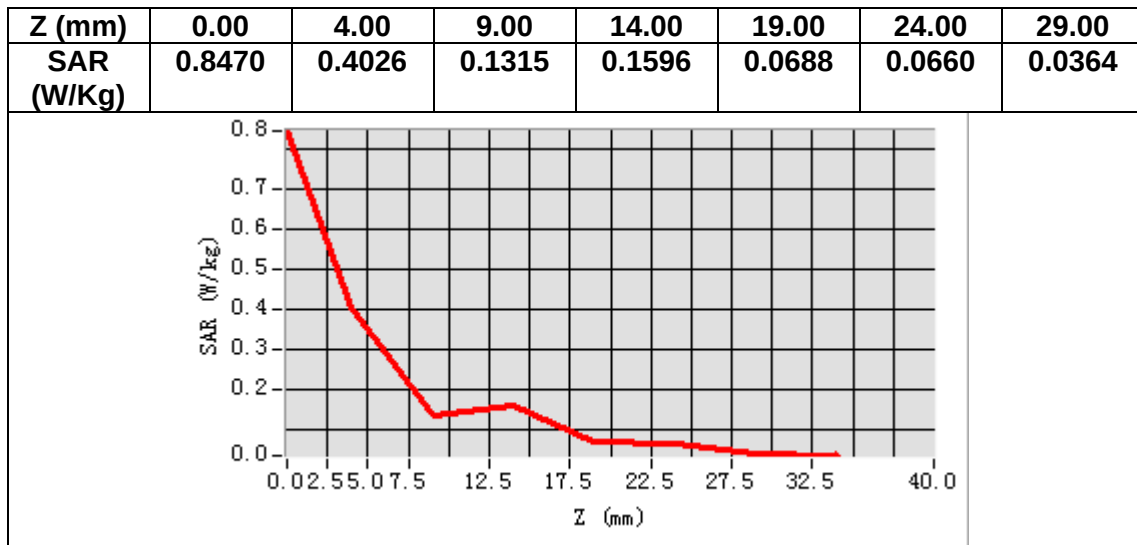
VOLUME SAR



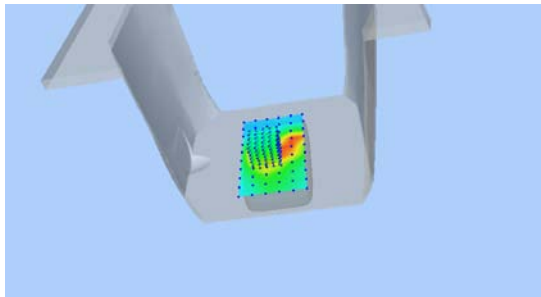
Maximum location: X=-9.00, Y=-13.00

SAR Peak: 0.58 W/kg

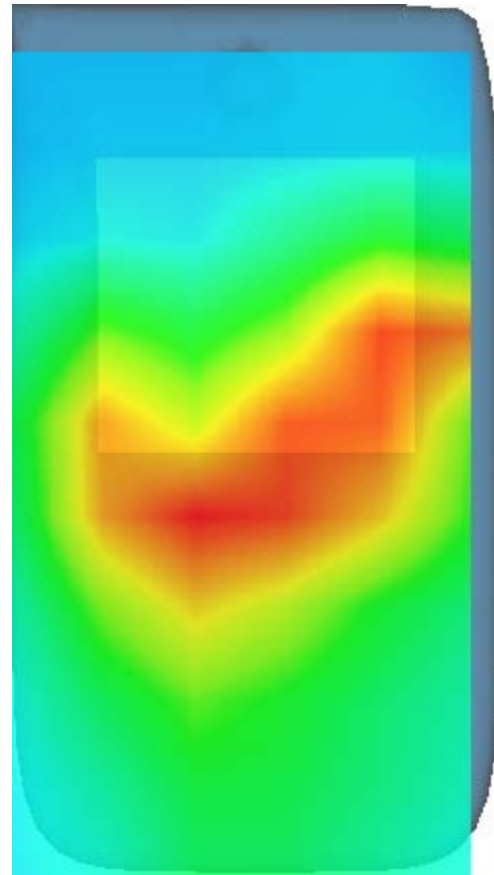
SAR 10g (W/Kg)	0.214094
SAR 1g (W/Kg)	0.363429



3D screen shot



Hot spot position



MEASUREMENT 9

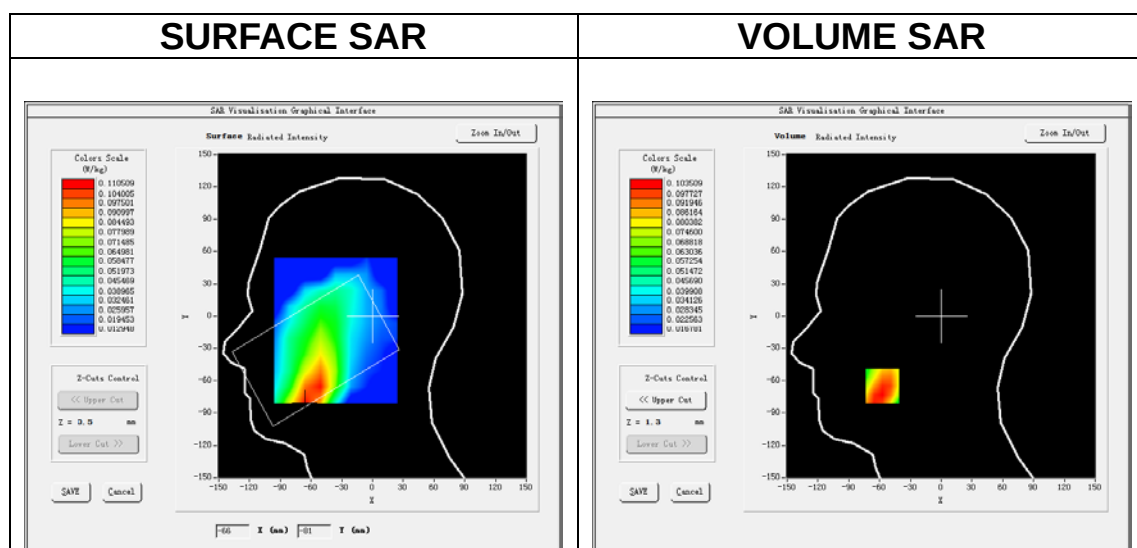
Date of measurement: 13/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

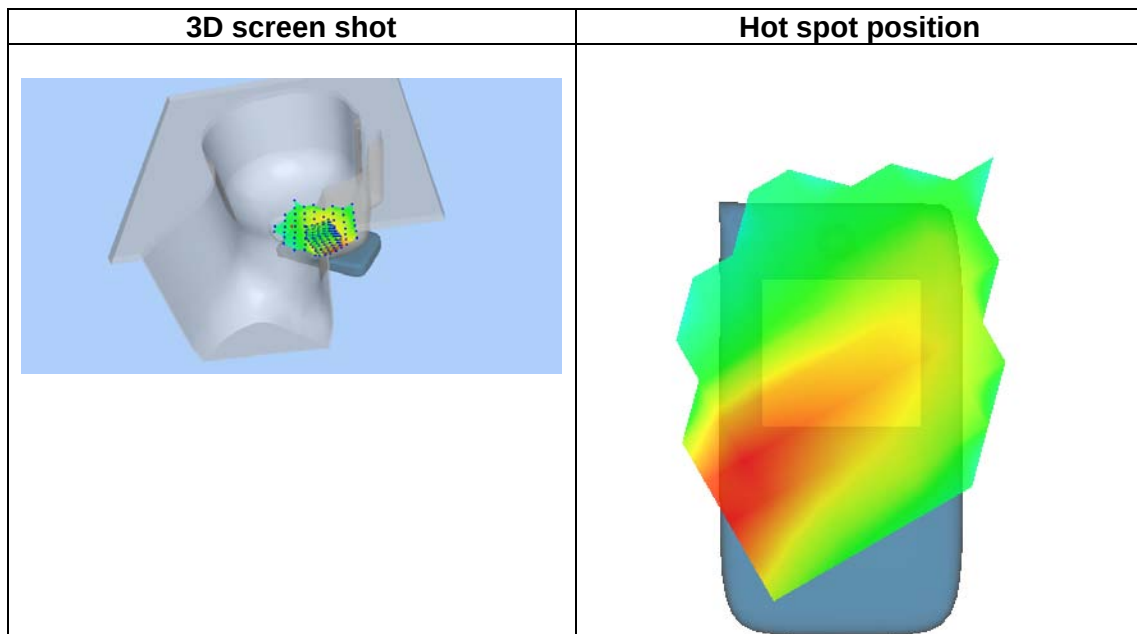
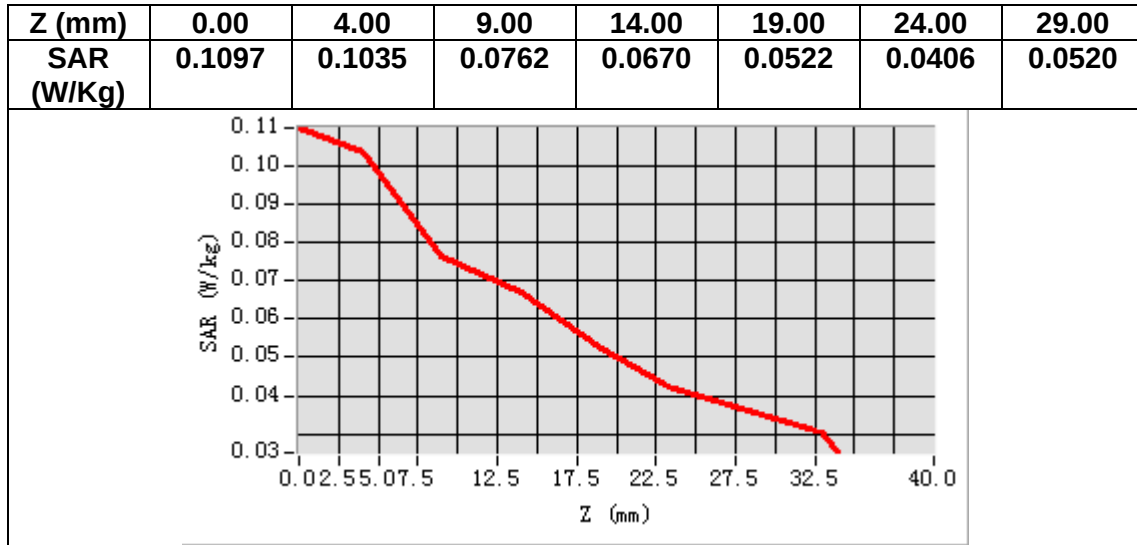
Frequency (MHz)	836.400000
Relative permittivity (real part)	43.088467
Relative permittivity (imaginary part)	19.309050
Conductivity (S/m)	0.897227
Variation (%)	-2.910000



Maximum location: X=-57.00, Y=-65.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.074862
SAR 1g (W/Kg)	0.101598



MEASUREMENT 10

Date of measurement: 13/9/2021

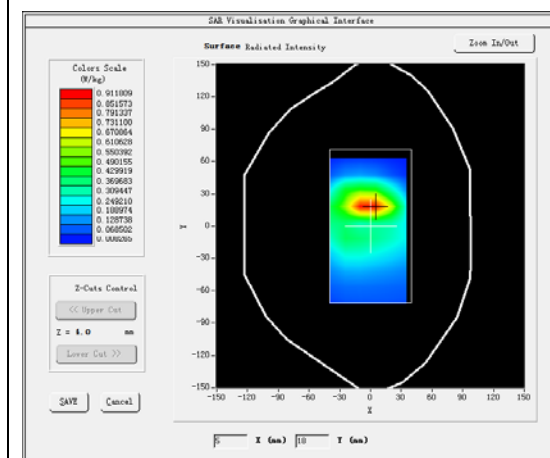
A. Experimental conditions.

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

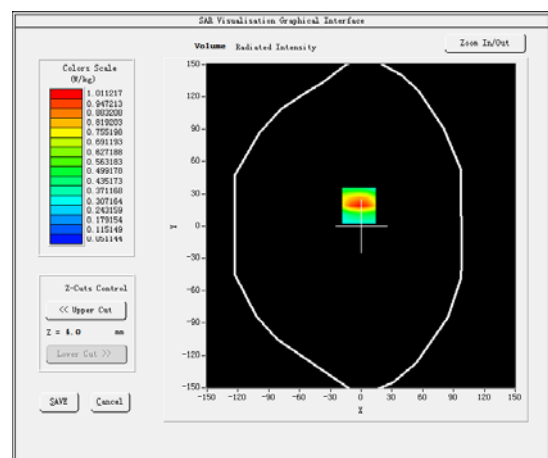
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative permittivity (real part)	43.088467
Relative permittivity (imaginary part)	19.309050
Conductivity (S/m)	0.897227
Variation (%)	0.020000

SURFACE SAR



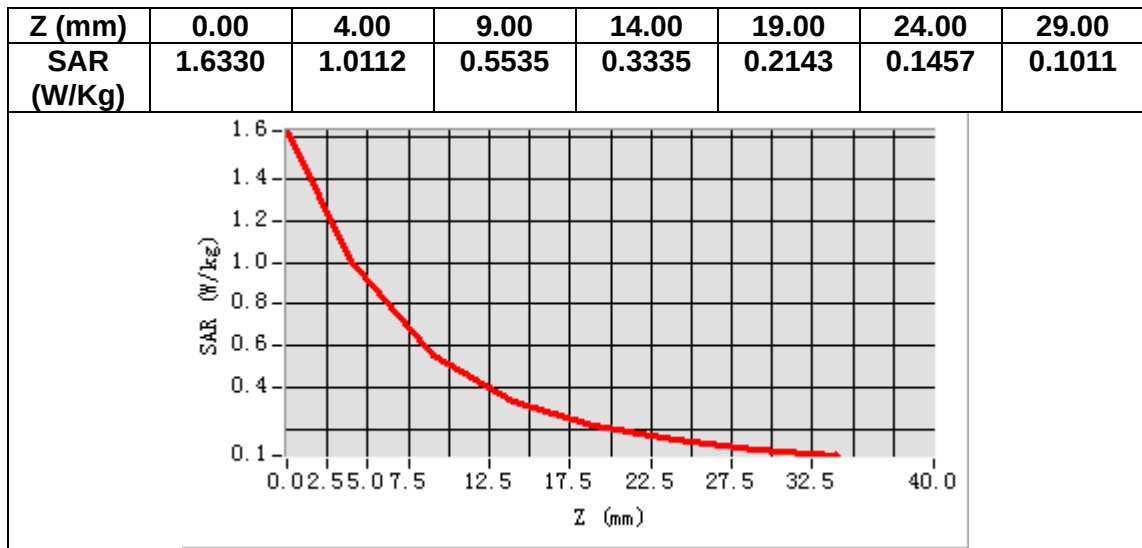
VOLUME SAR



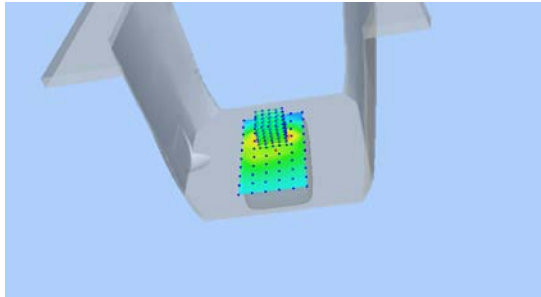
Maximum location: X=-2.00, Y=19.00

SAR Peak: 1.65 W/kg

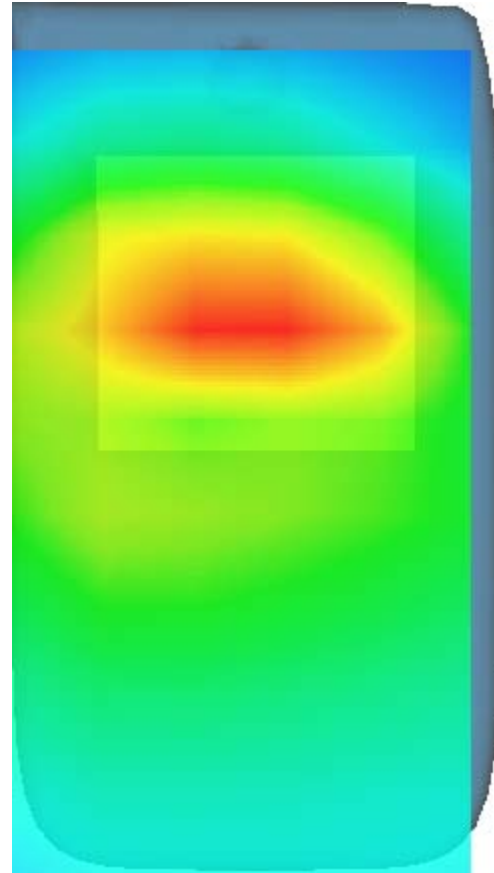
SAR 10g (W/Kg)	0.506180
SAR 1g (W/Kg)	0.963341



3D screen shot



Hot spot position



MEASUREMENT 11

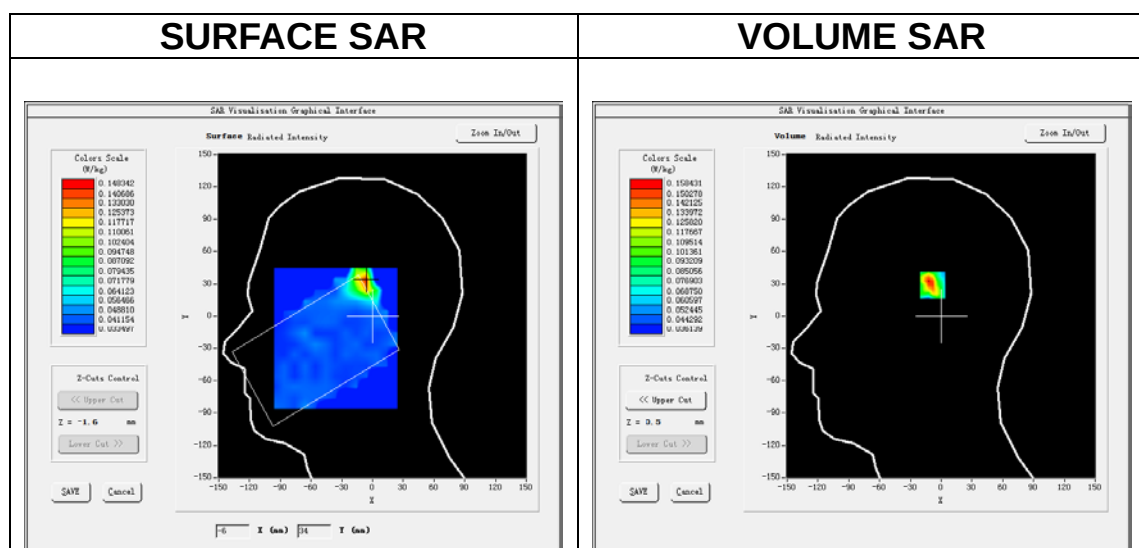
Date of measurement: 12/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.396885
Relative permittivity (imaginary part)	16.163410
Conductivity (S/m)	4.669430
Variation (%)	3.500000

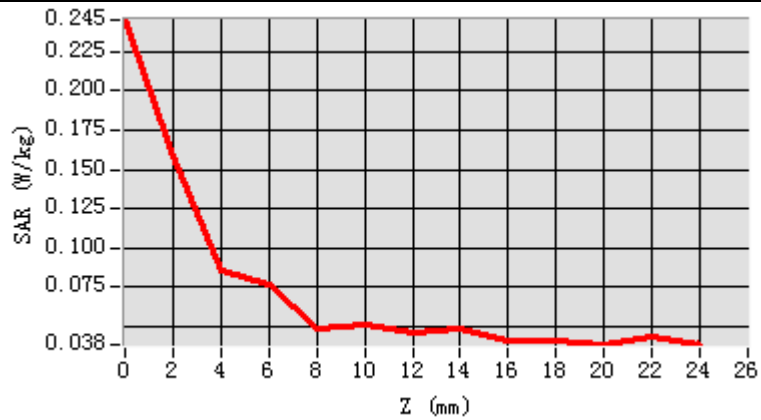


Maximum location: X=-6.00, Y=32.00

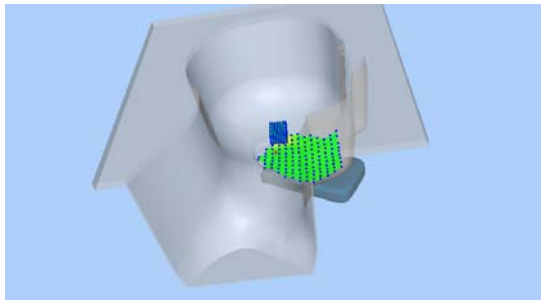
SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.079168
SAR 1g (W/Kg)	0.150848

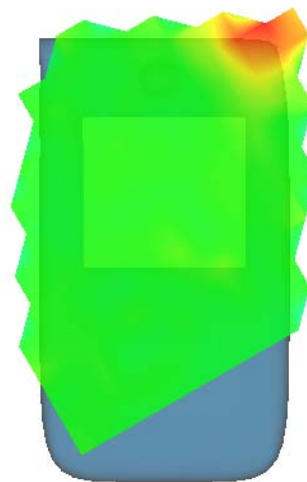
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SA R (W/ Kg)	0.24 53	0.15 84	0.08 53	0.07 65	0.04 84	0.05 08	0.04 59	0.04 88	0.04 09	0.04 11	0.03 85	0.04 32



3D screen shot



Hot spot position



MEASUREMENT 12

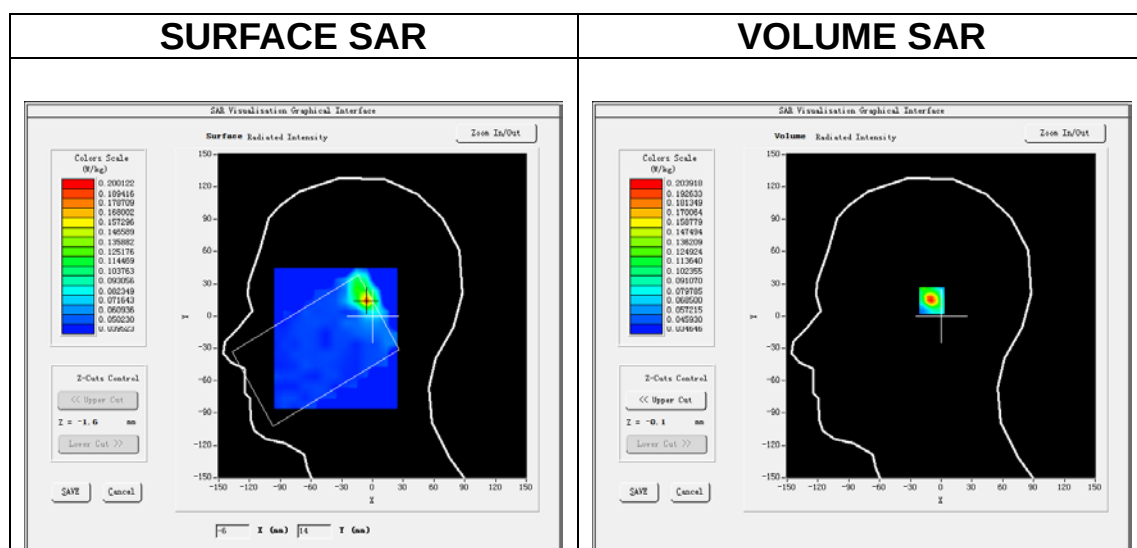
Date of measurement: 28/8/2021

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5785.000000
Relative permittivity (real part)	36.299934
Relative permittivity (imaginary part)	16.057011
Conductivity (S/m)	5.160545
Variation (%)	-4.880000

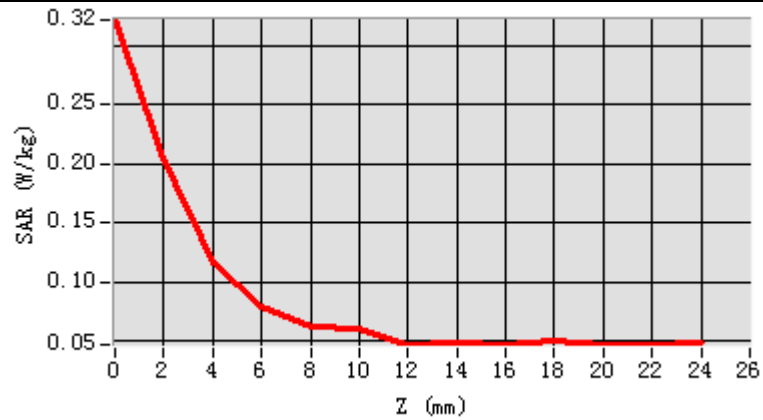


Maximum location: X=-6.00, Y=14.00

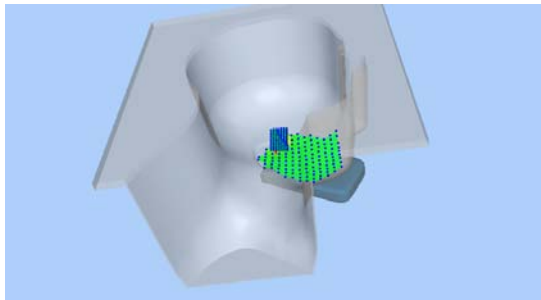
SAR Peak: 0.53 W/kg

SAR 10g (W/Kg)	0.084156
SAR 1g (W/Kg)	0.191200

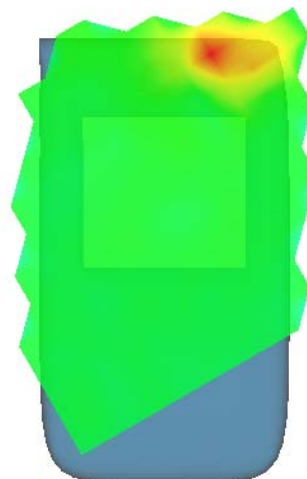
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	0.32 20	0.20 39	0.11 58	0.07 91	0.06 19	0.06 08	0.04 66	0.04 77	0.04 74	0.04 93	0.04 71	0.04 67



3D screen shot



Hot spot position



MEASUREMENT 13

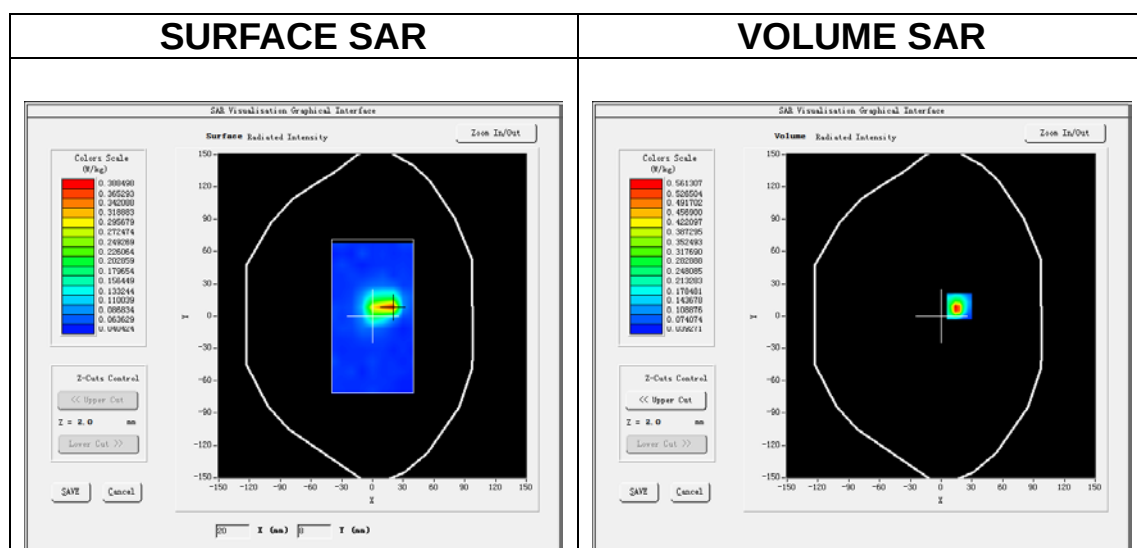
Date of measurement: 28/8/2021

A. Experimental conditions.

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

B. SAR Measurement Results

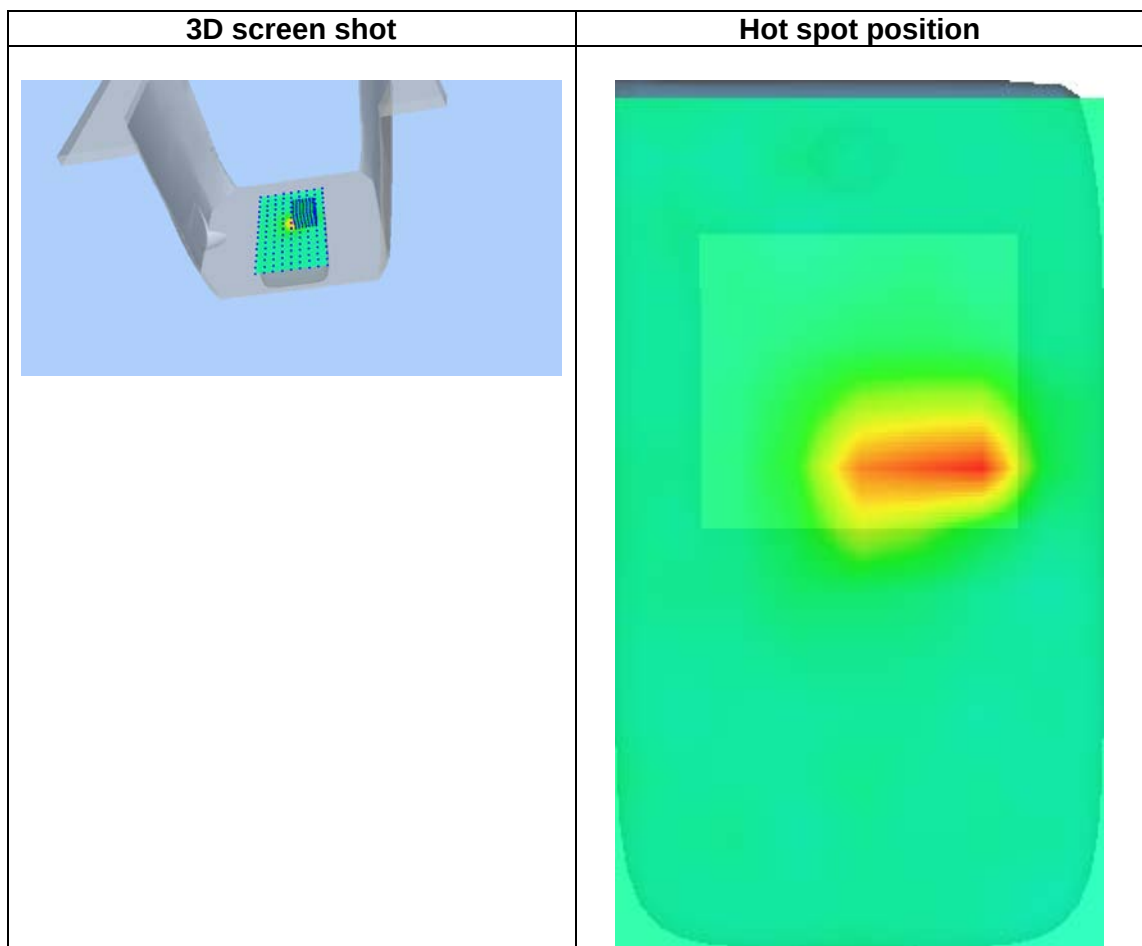
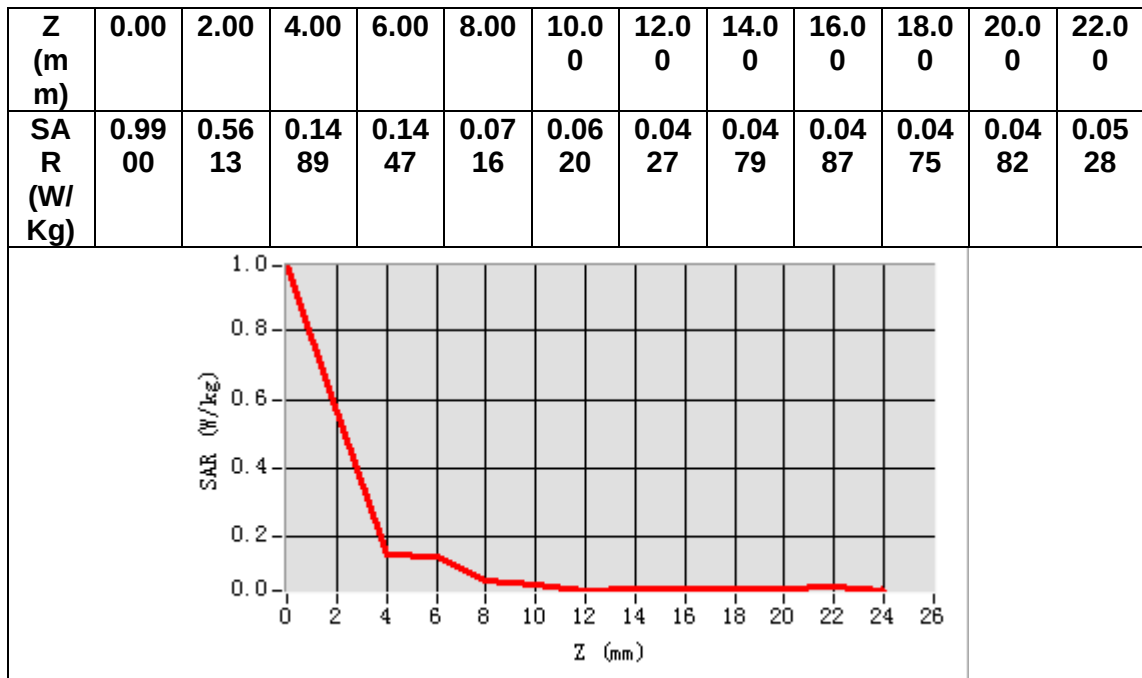
Frequency (MHz)	5785.000000
Relative permittivity (real part)	36.299934
Relative permittivity (imaginary part)	16.057011
Conductivity (S/m)	5.160545
Variation (%)	-2.600000



Maximum location: X=18.00, Y=9.00

SAR Peak: 1.11 W/kg

SAR 10g (W/Kg)	0.104590
SAR 1g (W/Kg)	0.298047



MEASUREMENT 14

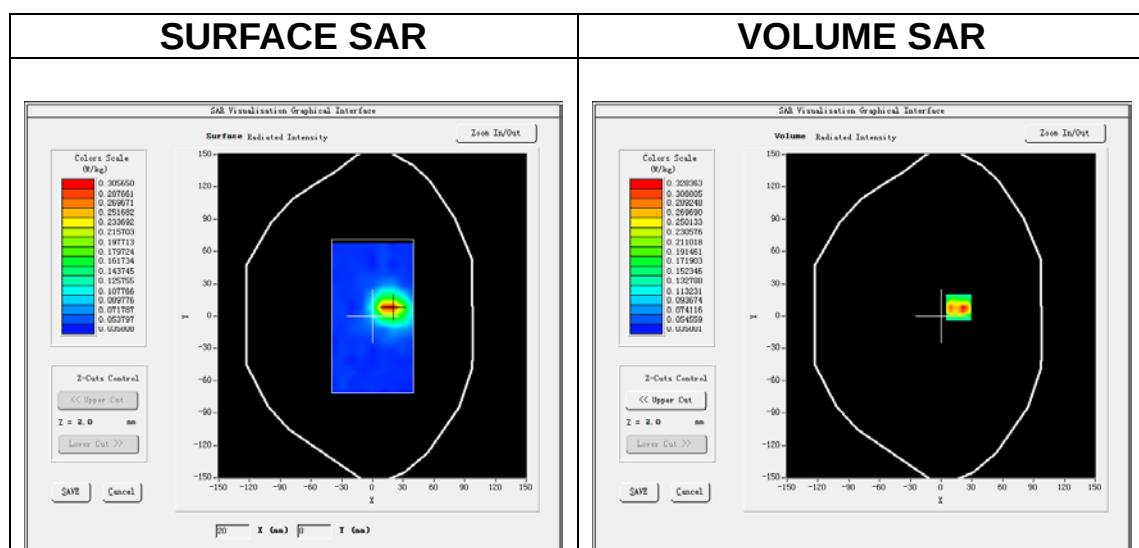
Date of measurement: 12/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative permittivity (real part)	37.396885
Relative permittivity (imaginary part)	16.163410
Conductivity (S/m)	4.669430
Variation (%)	2.190000

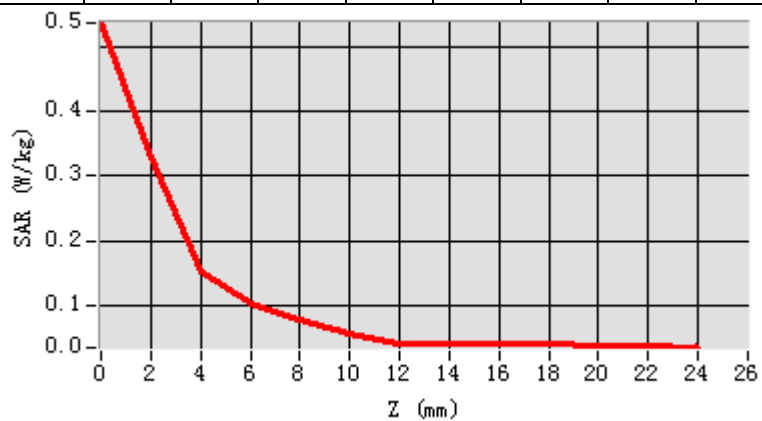


Maximum location: X=17.00, Y=8.00

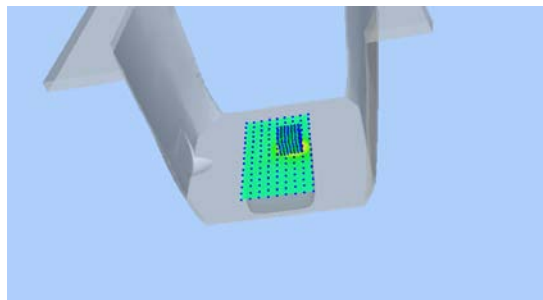
SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.095023
SAR 1g (W/Kg)	0.191589

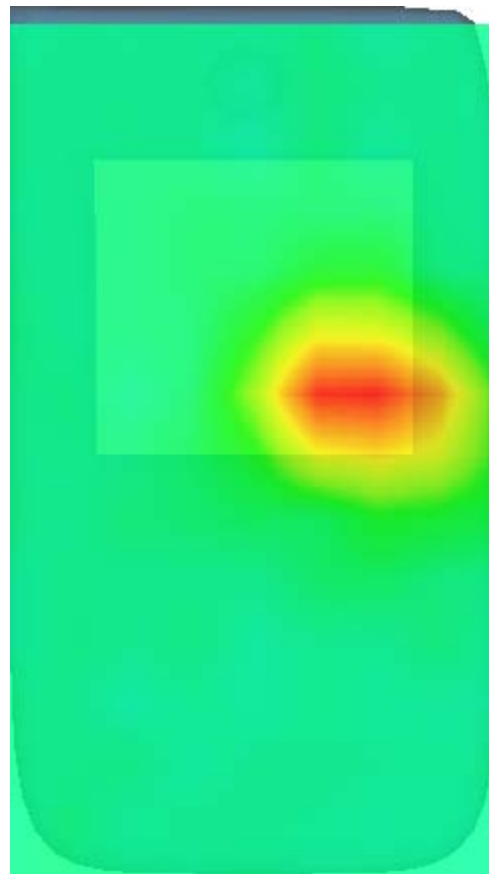
Z (m m)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
SAR (W/ Kg)	0.53 55	0.32 84	0.15 32	0.10 59	0.07 90	0.05 78	0.04 35	0.04 25	0.04 36	0.04 30	0.04 03	0.04 11



3D screen shot



Hot spot position



MEASUREMENT 15

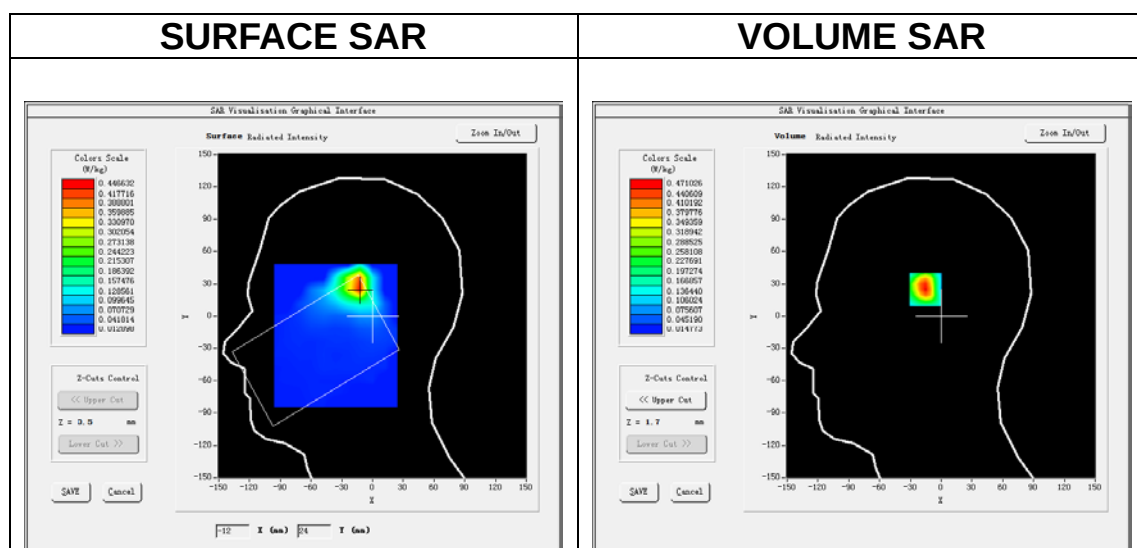
Date of measurement: 29/8/2021

A. Experimental conditions.

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

B. SAR Measurement Results

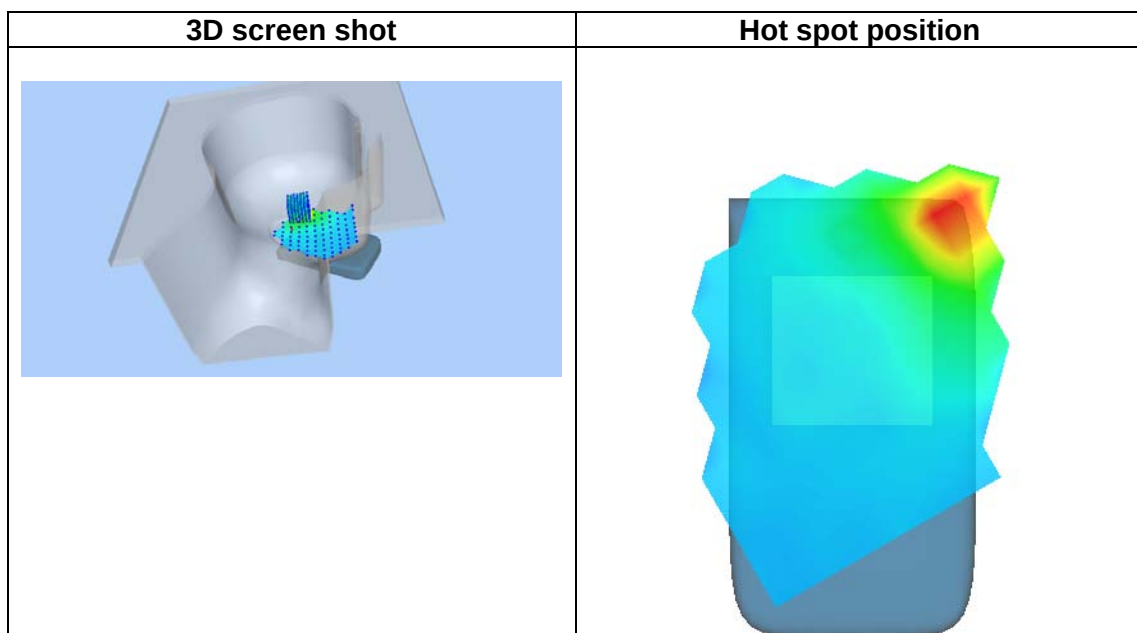
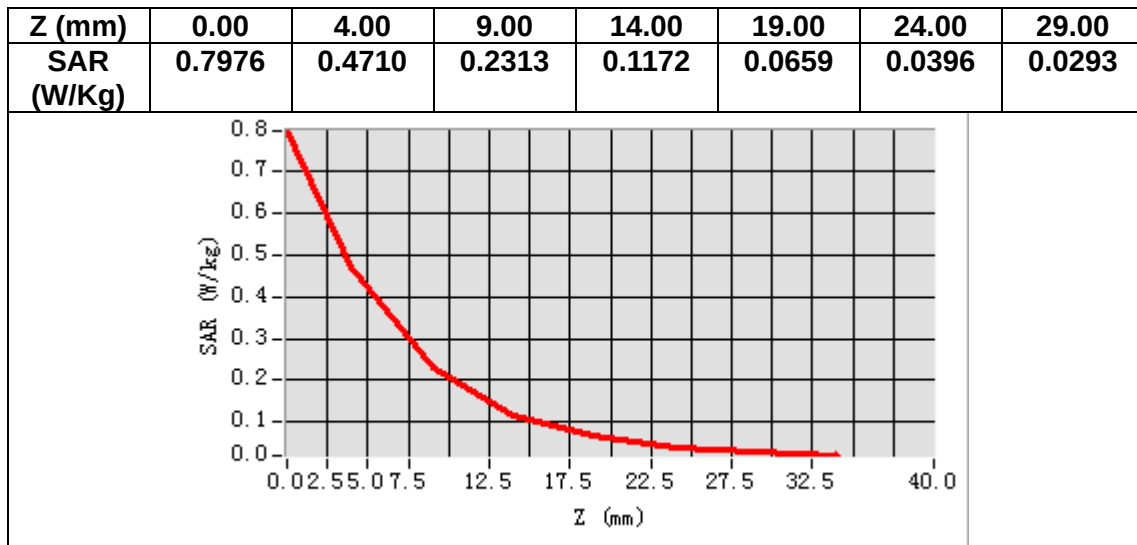
Frequency (MHz)	2437.000000
Relative permittivity (real part)	41.008133
Relative permittivity (imaginary part)	13.229459
Conductivity (S/m)	1.791122
Variation (%)	-1.440000



Maximum location: X=-14.00, Y=27.00

SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.214291
SAR 1g (W/Kg)	0.434630



MEASUREMENT 16

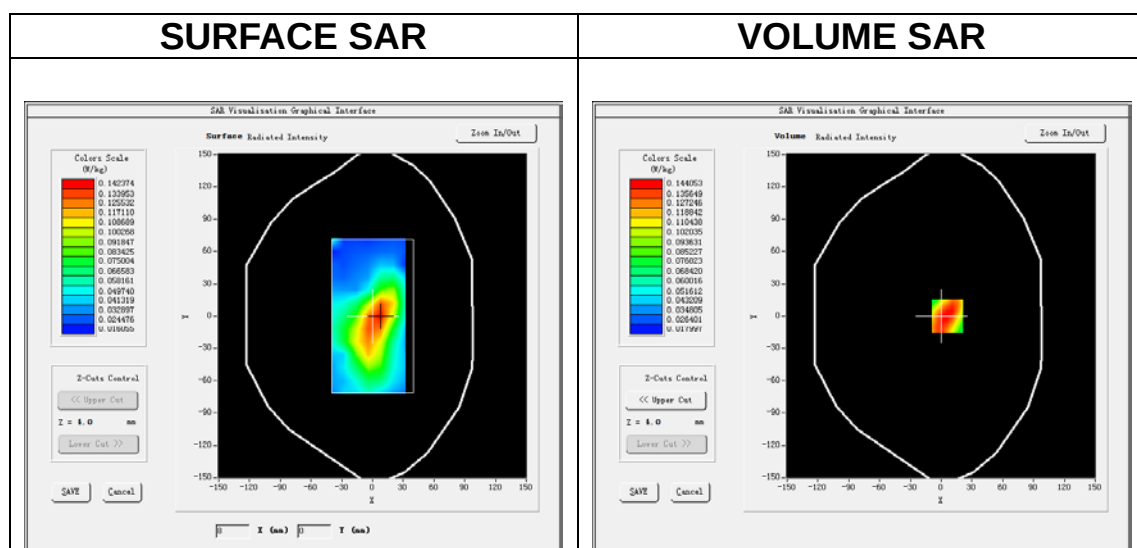
Date of measurement: 29/8/2021

A. Experimental conditions.

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

B. SAR Measurement Results

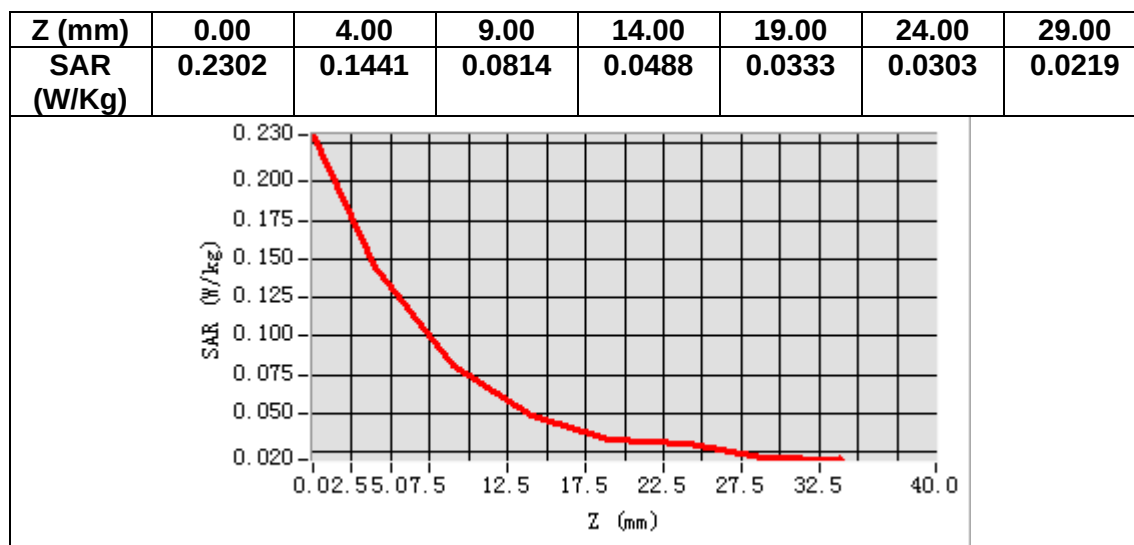
Frequency (MHz)	2437.000000
Relative permittivity (real part)	41.008133
Relative permittivity (imaginary part)	13.229459
Conductivity (S/m)	1.791122
Variation (%)	0.390000



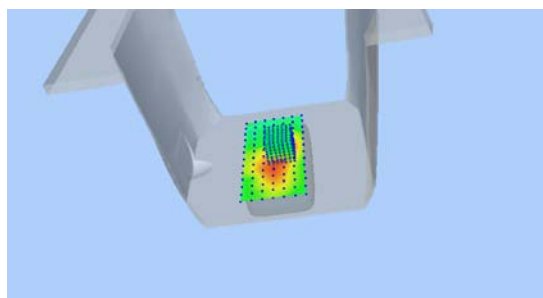
Maximum location: X=6.00, Y=0.00

SAR Peak: 0.24 W/kg

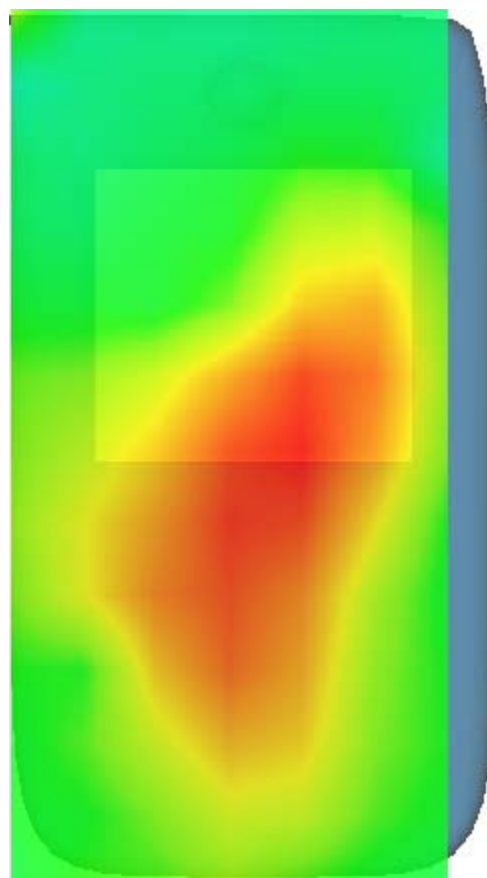
SAR 10g (W/Kg)	0.083274
SAR 1g (W/Kg)	0.142013



3D screen shot



Hot spot position



MEASUREMENT 17

Date of measurement: 6/9/2021

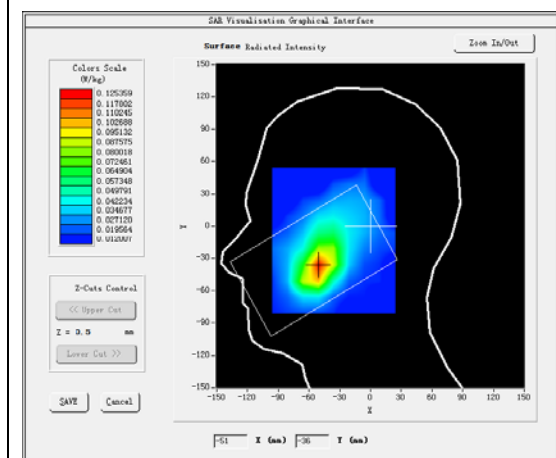
A. Experimental conditions.

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

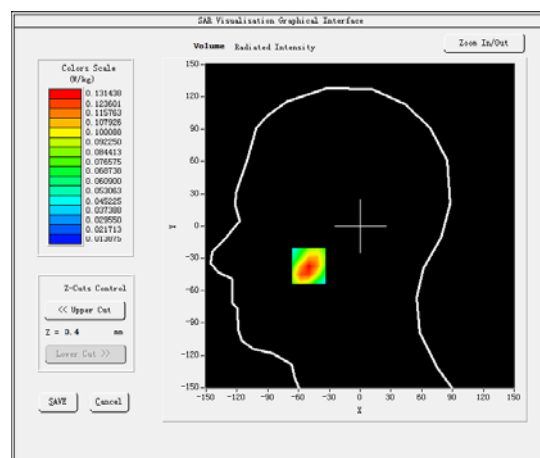
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.910103
Relative permittivity (imaginary part)	13.640792
Conductivity (S/m)	1.424705
Variation (%)	-1.910000

SURFACE SAR



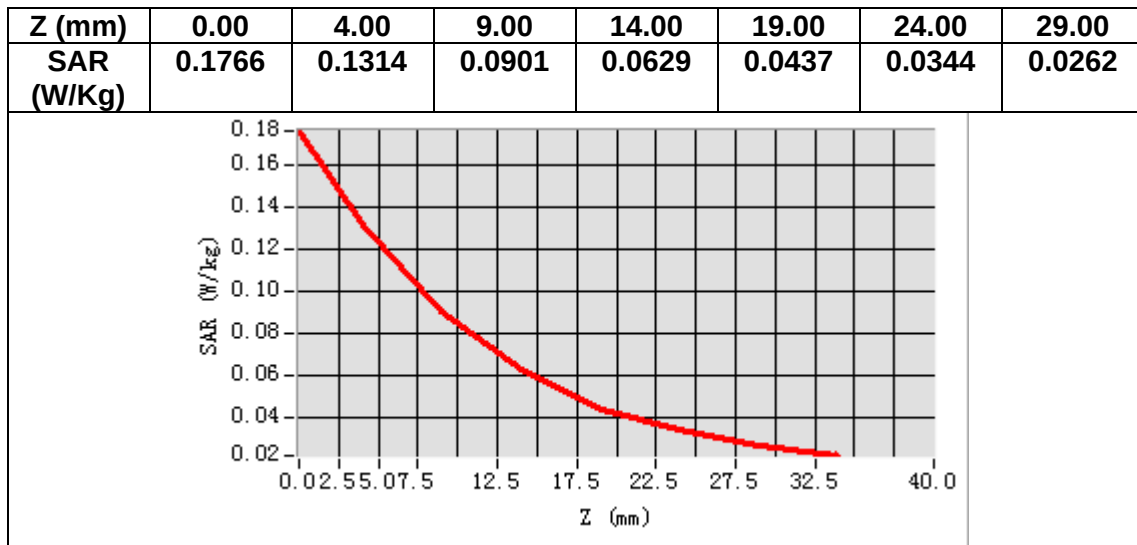
VOLUME SAR



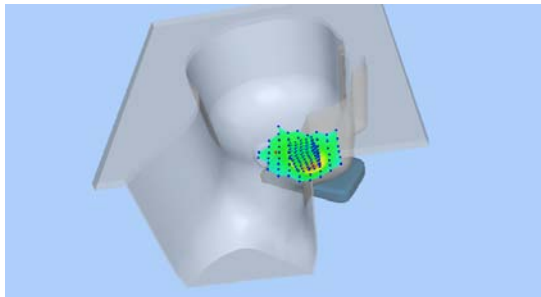
Maximum location: X=-50.00, Y=-37.00

SAR Peak: 0.18 W/kg

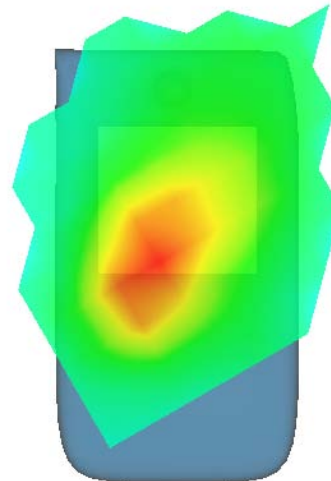
SAR 10g (W/Kg)	0.078120
SAR 1g (W/Kg)	0.127275



3D screen shot



Hot spot position



MEASUREMENT 18

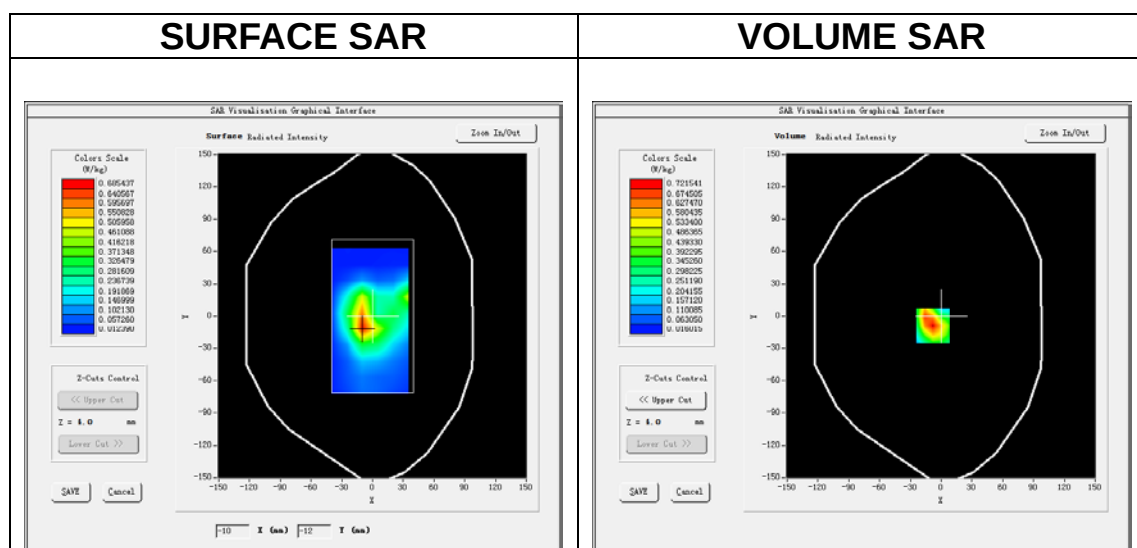
Date of measurement: 6/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

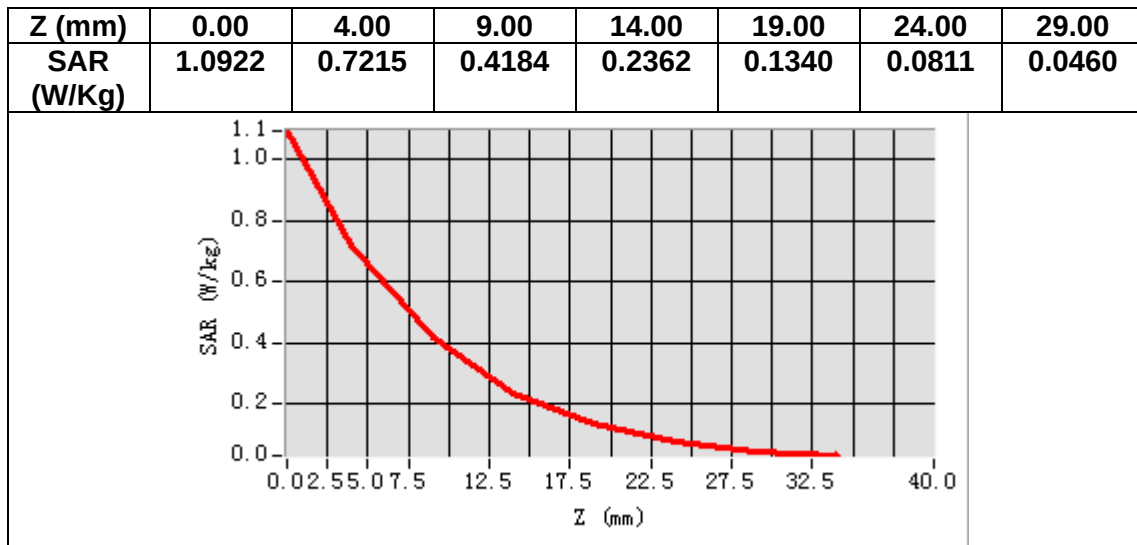
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.910103
Relative permittivity (imaginary part)	13.640792
Conductivity (S/m)	1.424705
Variation (%)	-0.850000



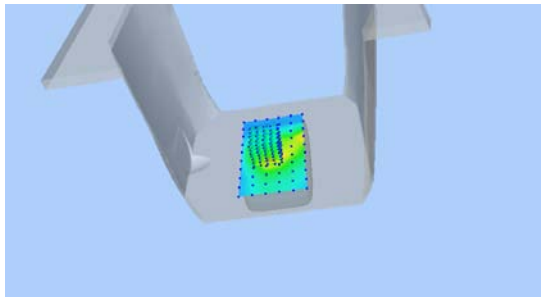
Maximum location: X=-8.00, Y=-9.00

SAR Peak: 1.19 W/kg

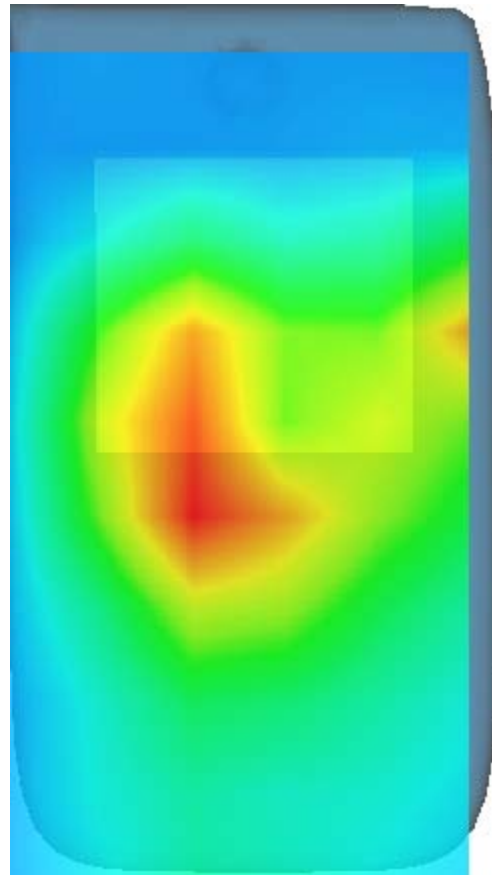
SAR 10g (W/Kg)	0.358925
SAR 1g (W/Kg)	0.690485



3D screen shot



Hot spot position



MEASUREMENT 19

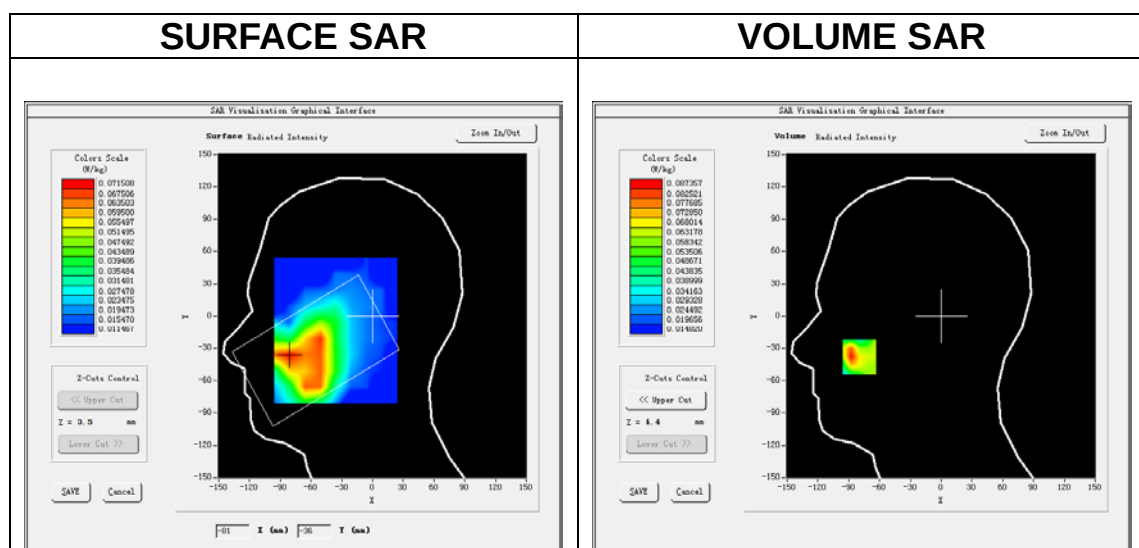
Date of measurement: 2/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

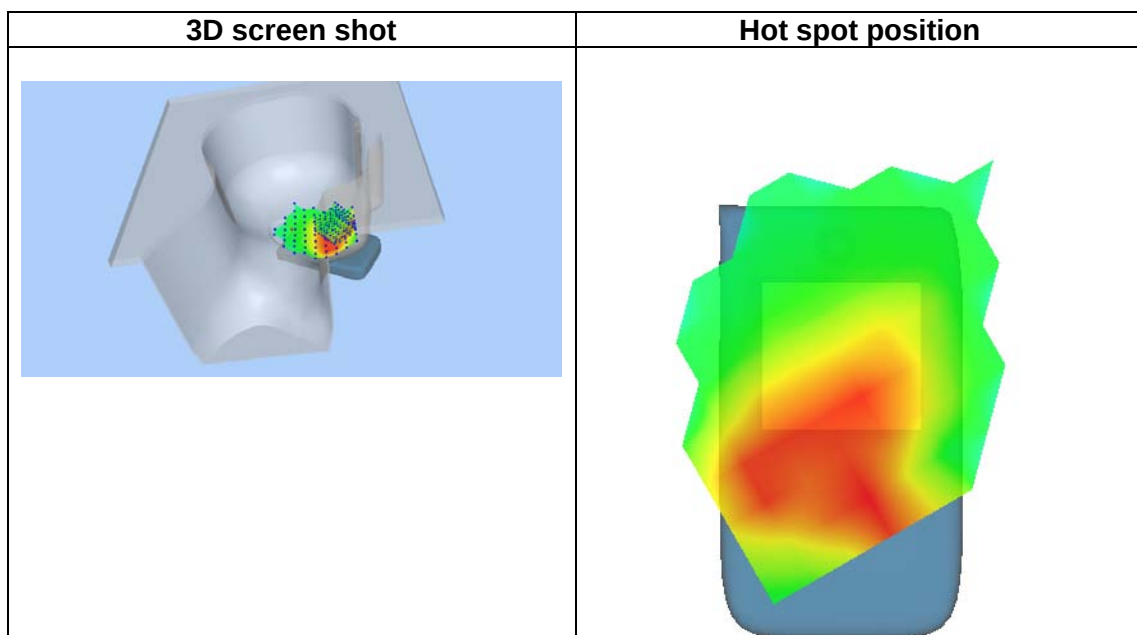
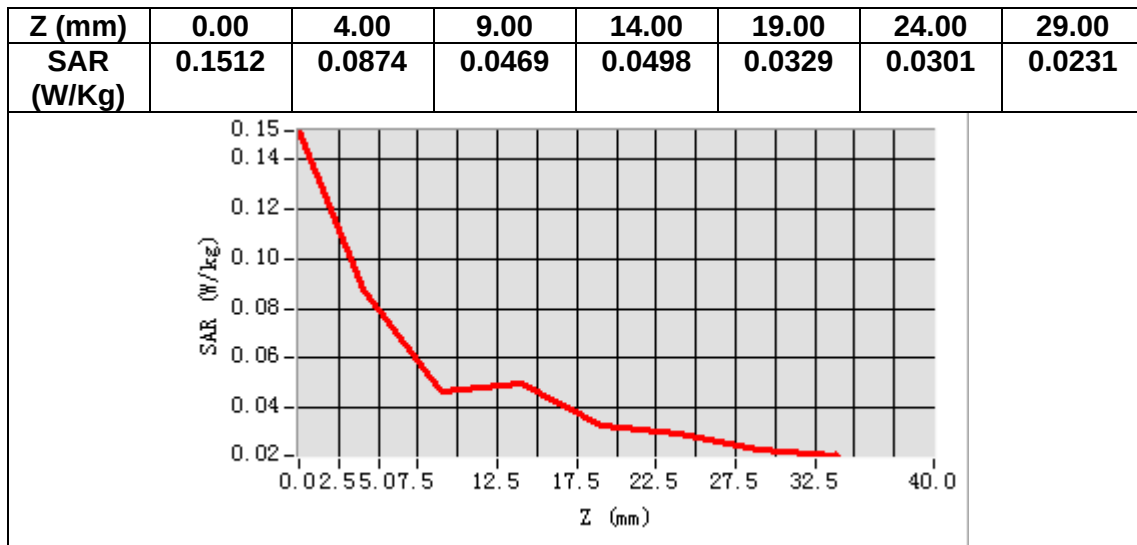
Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.321526
Relative permittivity (imaginary part)	13.798567
Conductivity (S/m)	1.328112
Variation (%)	-1.010000



Maximum location: X=-80.00, Y=-38.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.053221
SAR 1g (W/Kg)	0.081358



MEASUREMENT 20

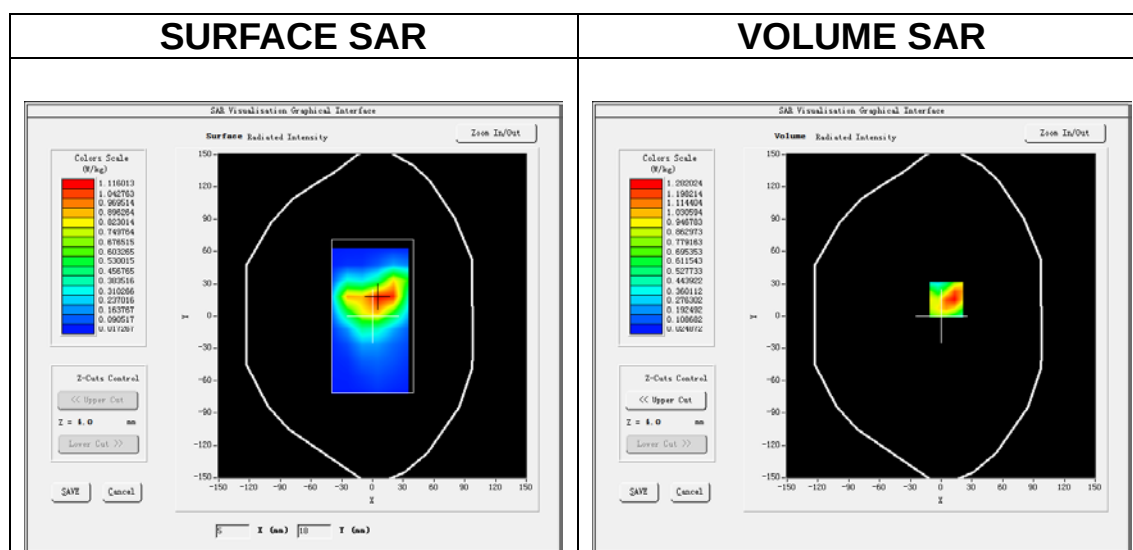
Date of measurement: 2/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

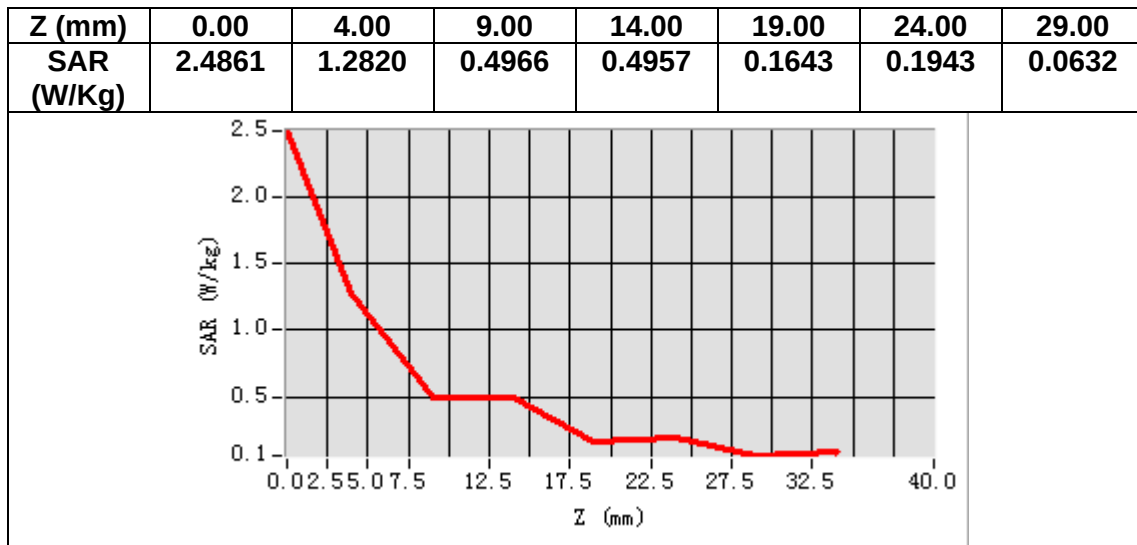
Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.321526
Relative permittivity (imaginary part)	13.798567
Conductivity (S/m)	1.328112
Variation (%)	-0.330000



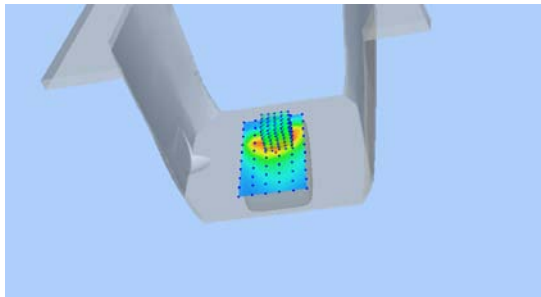
Maximum location: X=5.00, Y=15.00

SAR Peak: 2.02 W/kg

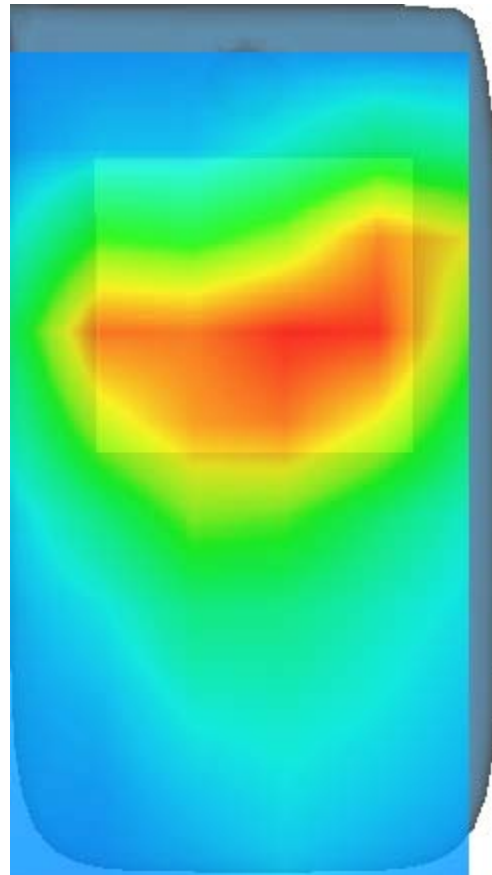
SAR 10g (W/Kg)	0.680060
SAR 1g (W/Kg)	1.019199



3D screen shot



Hot spot position



MEASUREMENT 21

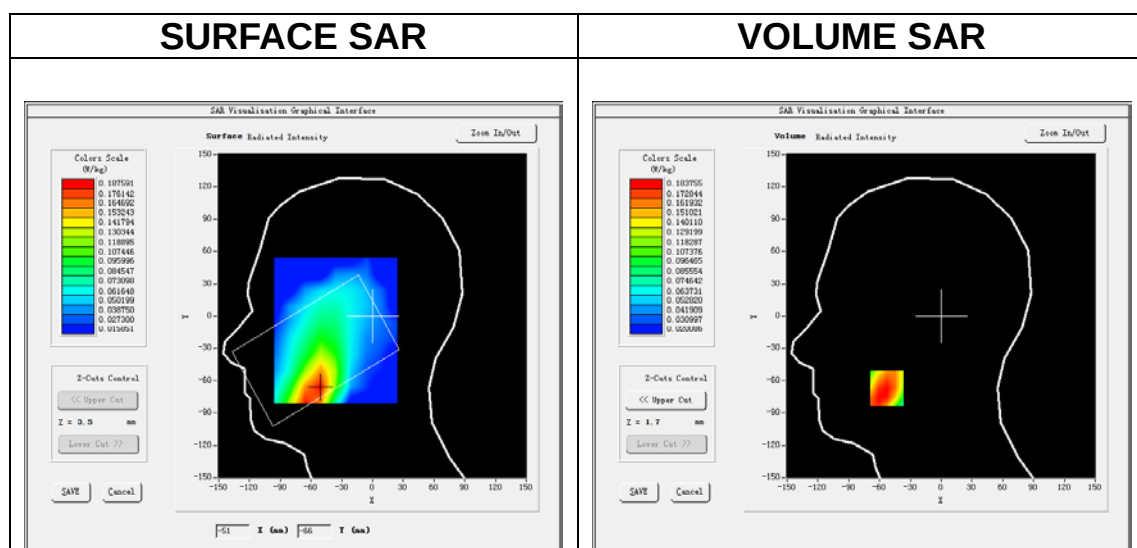
Date of measurement: 13/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

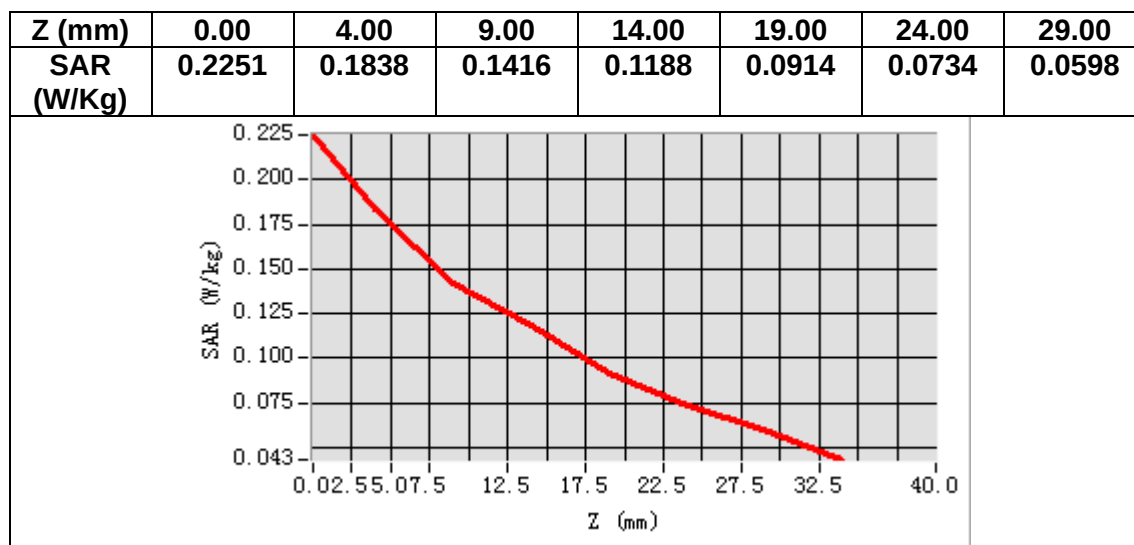
Frequency (MHz)	836.500000
Relative permittivity (real part)	43.091057
Relative permittivity (imaginary part)	19.307709
Conductivity (S/m)	0.897272
Variation (%)	0.050000



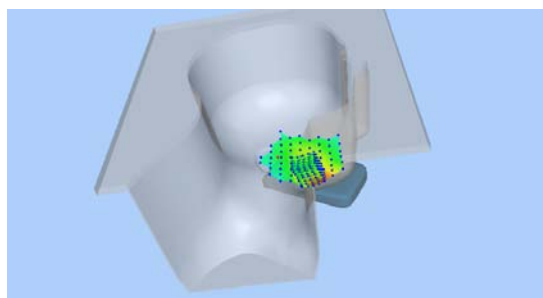
Maximum location: X=-53.00, Y=-67.00

SAR Peak: 0.24 W/kg

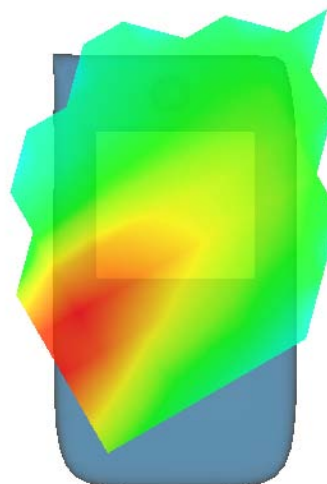
SAR 10g (W/Kg)	0.130717
SAR 1g (W/Kg)	0.181379



3D screen shot



Hot spot position



MEASUREMENT 22

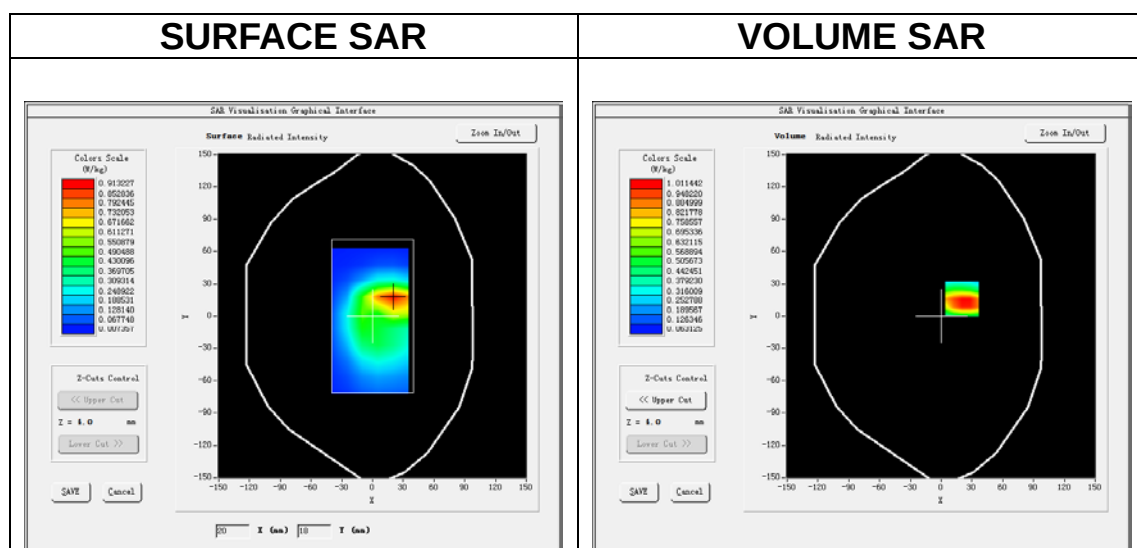
Date of measurement: 13/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

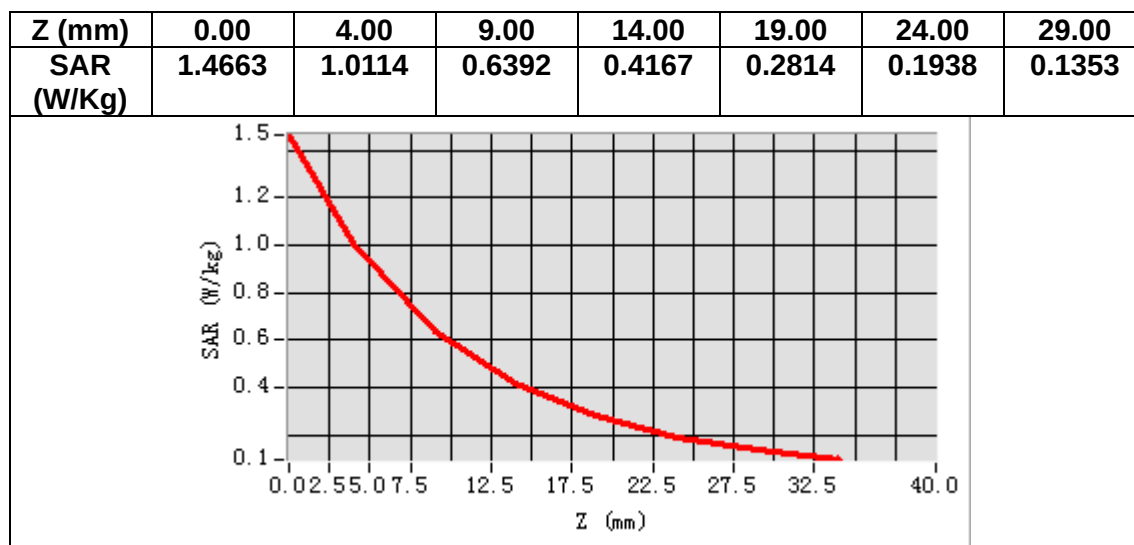
Frequency (MHz)	836.500000
Relative permittivity (real part)	43.091057
Relative permittivity (imaginary part)	19.307709
Conductivity (S/m)	0.897272
Variation (%)	0.270000



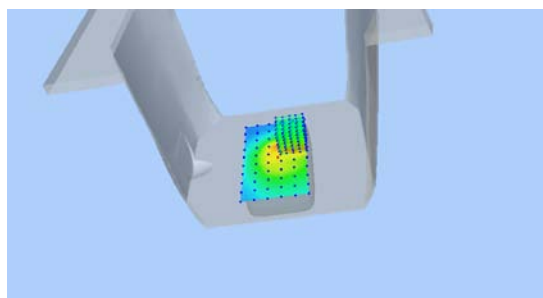
Maximum location: X=20.00, Y=16.00

SAR Peak: 1.69 W/kg

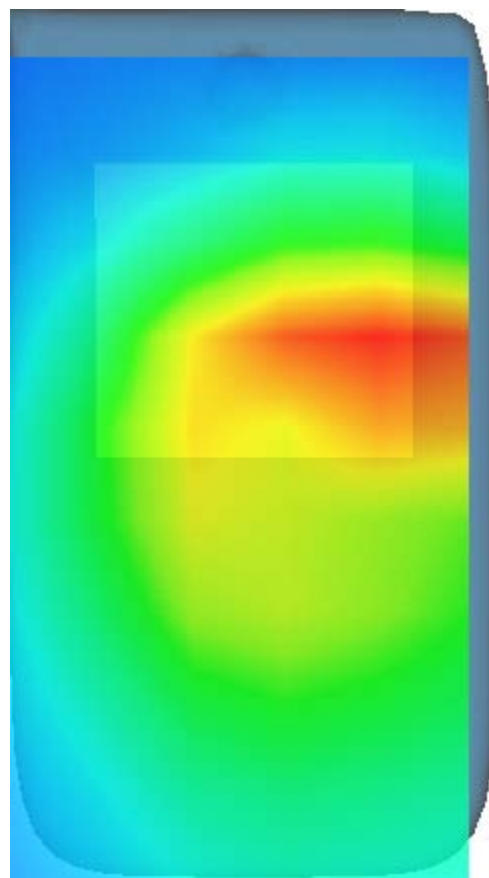
SAR 10g (W/Kg)	0.572478
SAR 1g (W/Kg)	1.032102



3D screen shot



Hot spot position



MEASUREMENT 23

Date of measurement: 8/9/2021

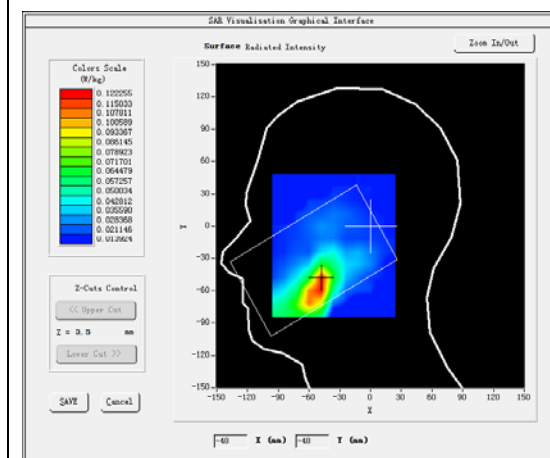
A. Experimental conditions.

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

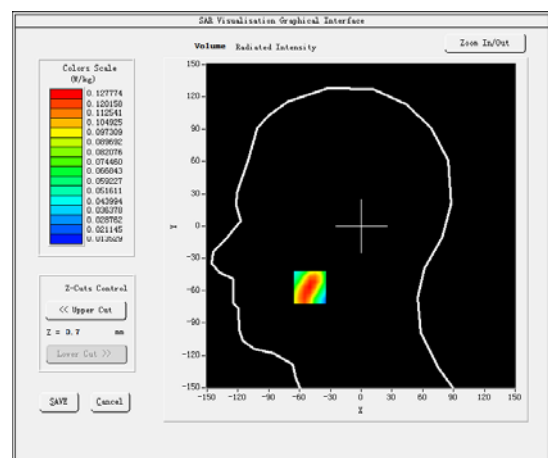
B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative permittivity (real part)	40.015182
Relative permittivity (imaginary part)	13.430739
Conductivity (S/m)	1.891496
Variation (%)	-4.680000

SURFACE SAR



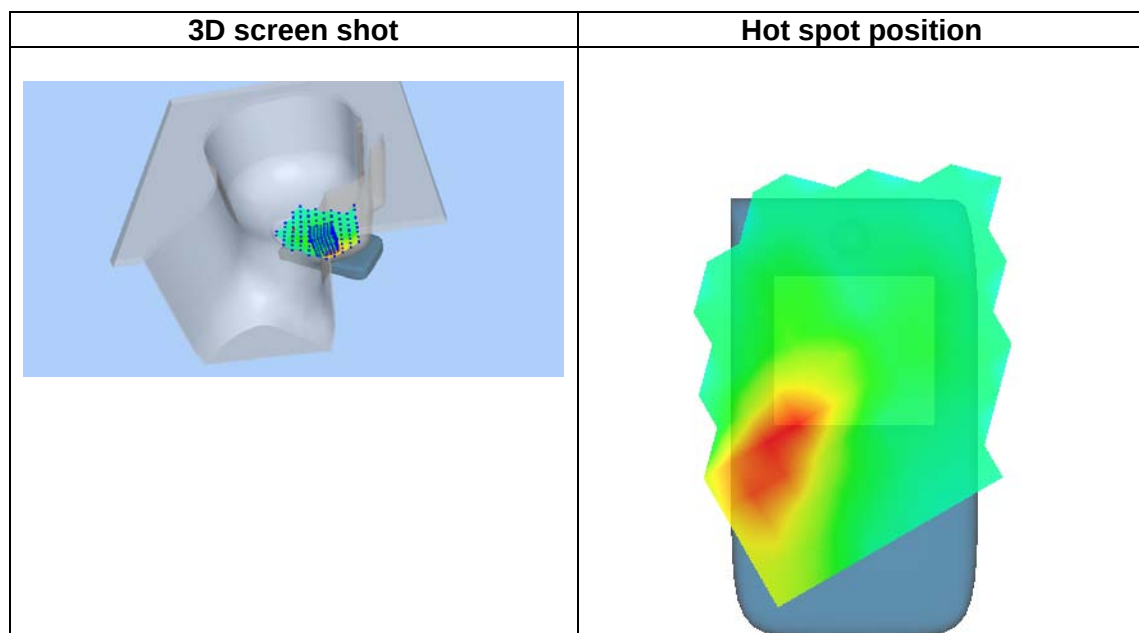
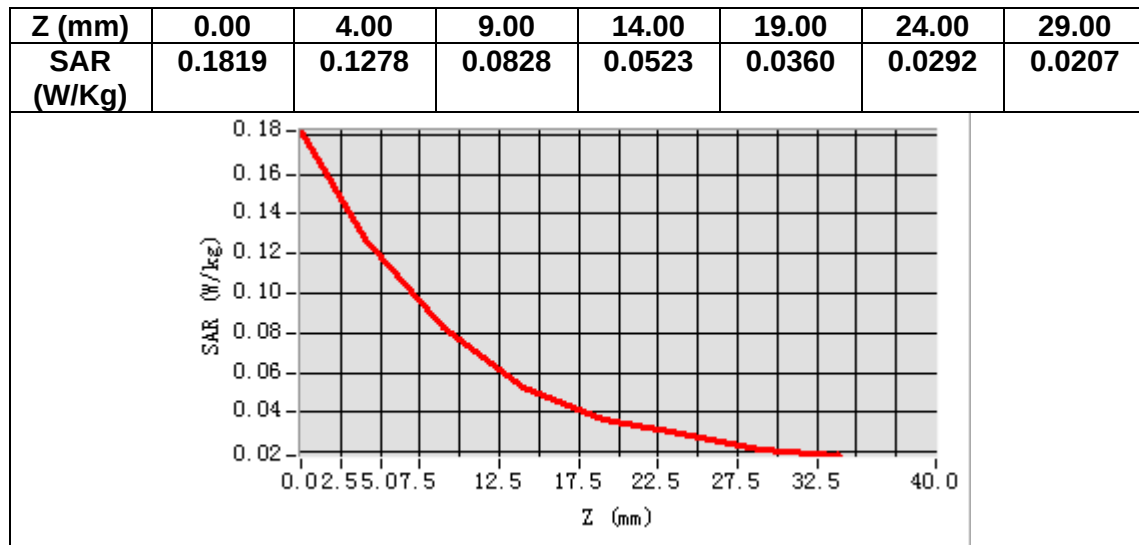
VOLUME SAR



Maximum location: X=-50.00, Y=-57.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.069014
SAR 1g (W/Kg)	0.119315



MEASUREMENT 24

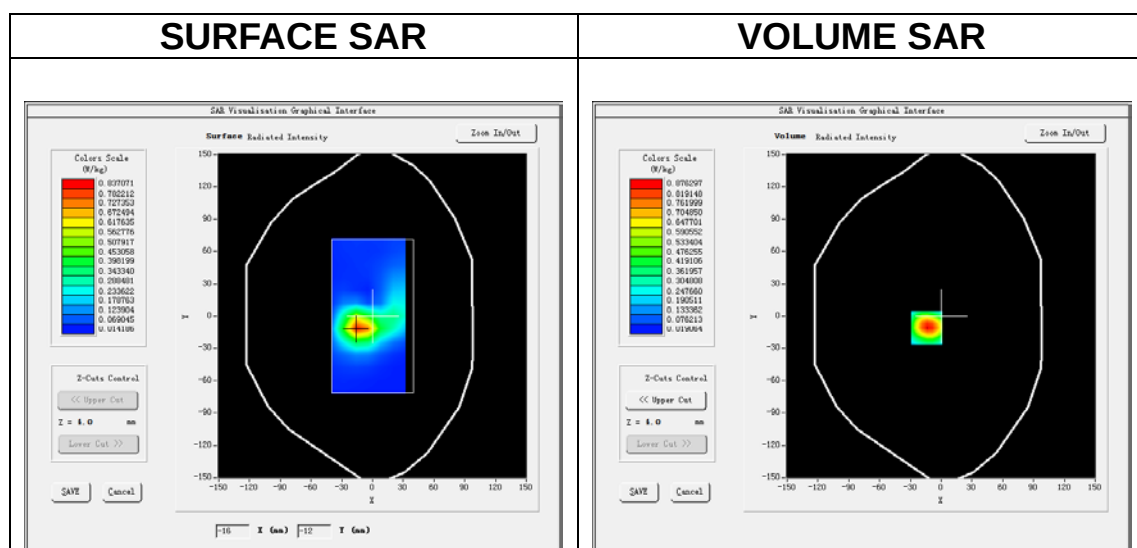
Date of measurement: 8/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

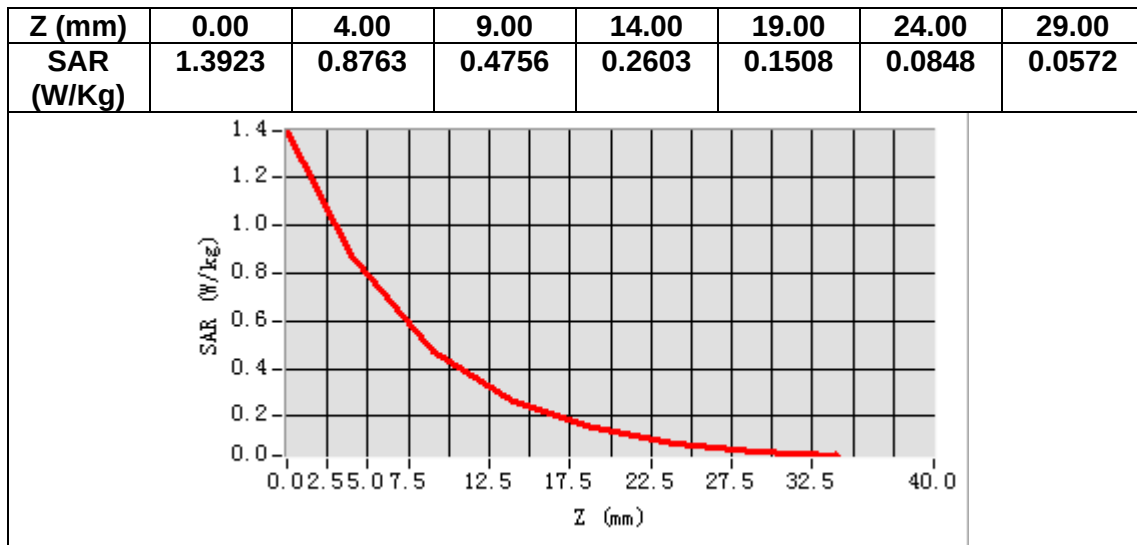
Frequency (MHz)	2535.000000
Relative permittivity (real part)	40.015182
Relative permittivity (imaginary part)	13.430739
Conductivity (S/m)	1.891496
Variation (%)	1.580000



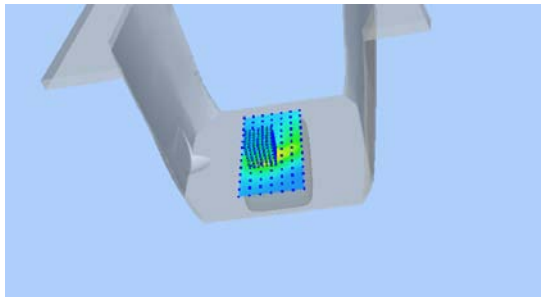
Maximum location: X=-14.00, Y=-11.00

SAR Peak: 1.39 W/kg

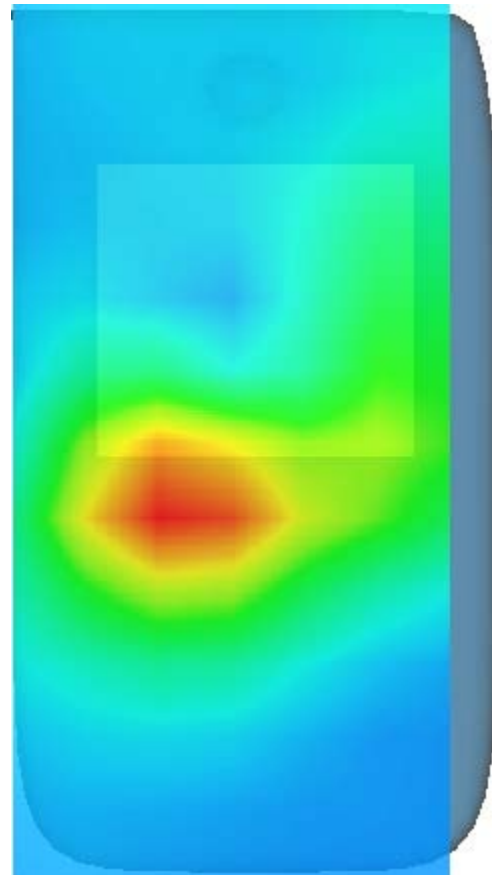
SAR 10g (W/Kg)	0.409397
SAR 1g (W/Kg)	0.814712



3D screen shot



Hot spot position



MEASUREMENT 25

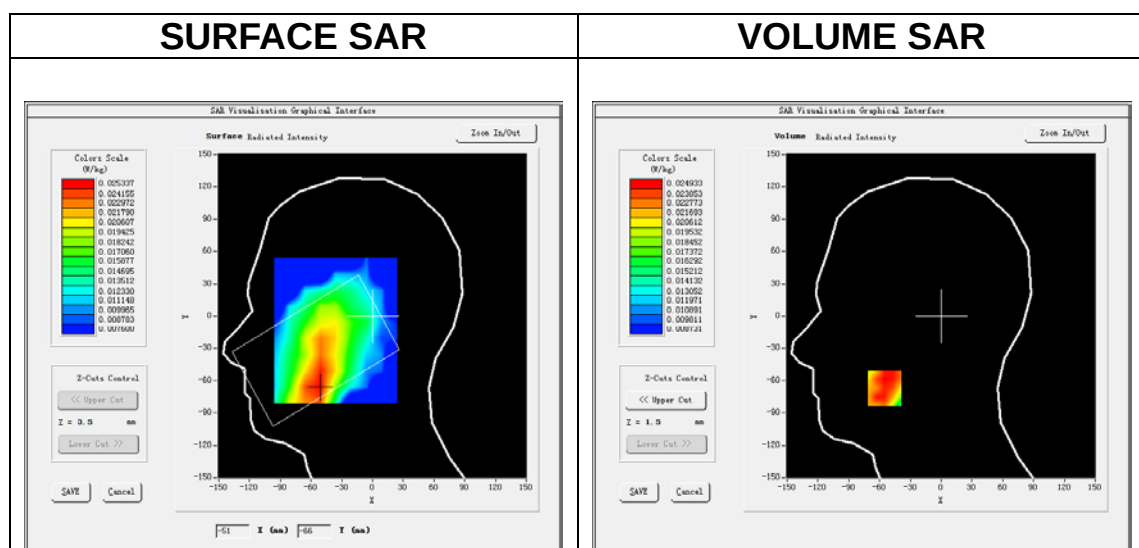
Date of measurement: 3/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

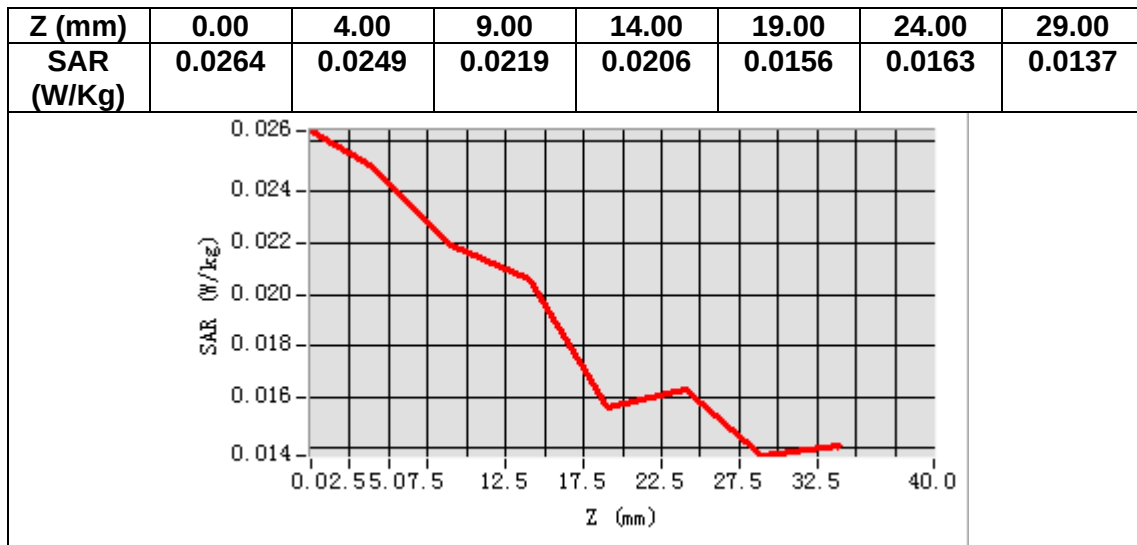
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.508949
Relative permittivity (imaginary part)	21.747526
Conductivity (S/m)	0.854799
Variation (%)	2.670000



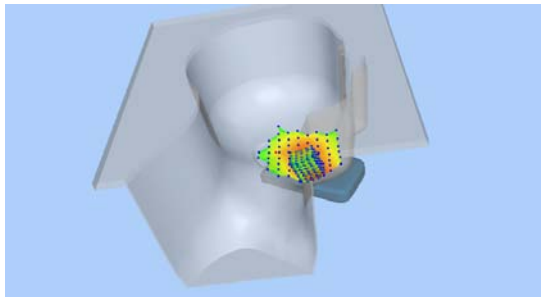
Maximum location: X=-55.00, Y=-67.00

SAR Peak: 0.03 W/kg

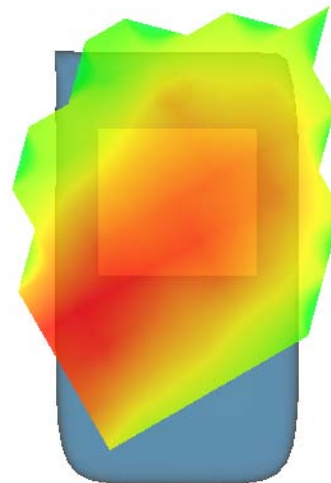
SAR 10g (W/Kg)	0.020908
SAR 1g (W/Kg)	0.024847



3D screen shot



Hot spot position



MEASUREMENT 26

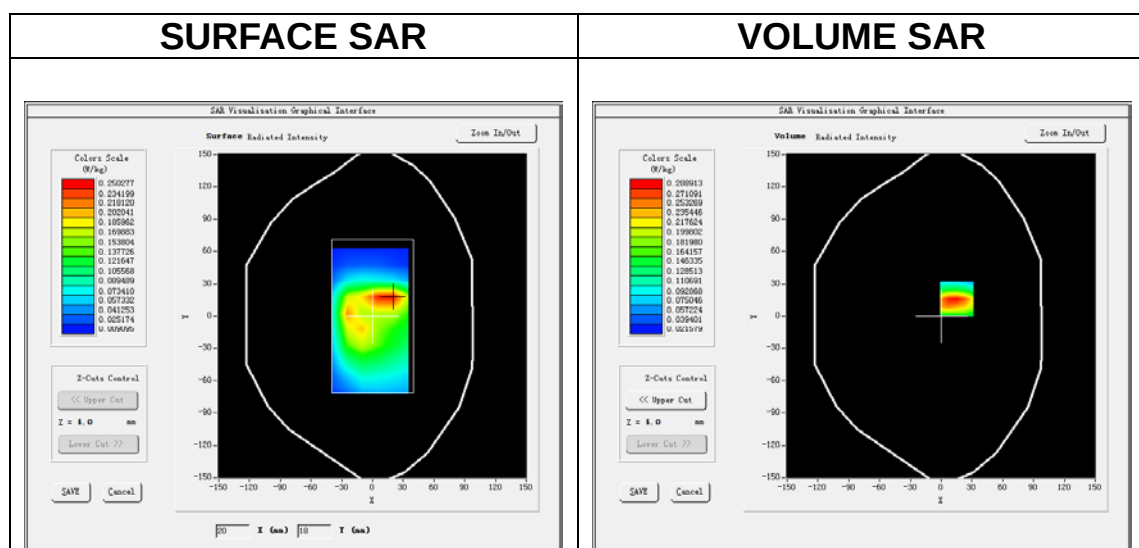
Date of measurement: 3/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

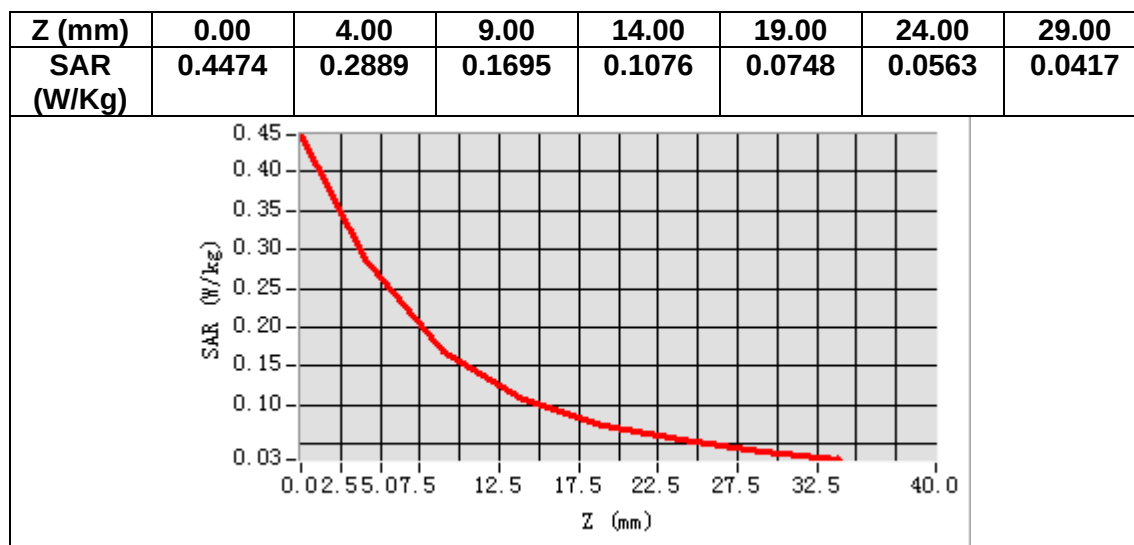
Frequency (MHz)	707.500000
Relative permittivity (real part)	42.508949
Relative permittivity (imaginary part)	21.747526
Conductivity (S/m)	0.854799
Variation (%)	2.520000



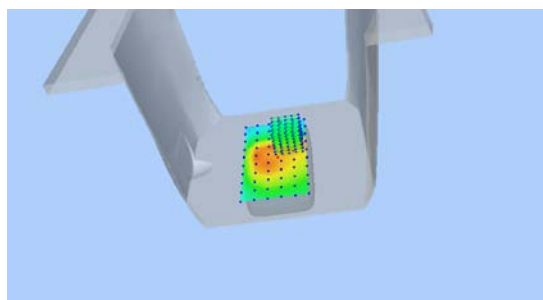
Maximum location: X=15.00, Y=16.00

SAR Peak: 0.47 W/kg

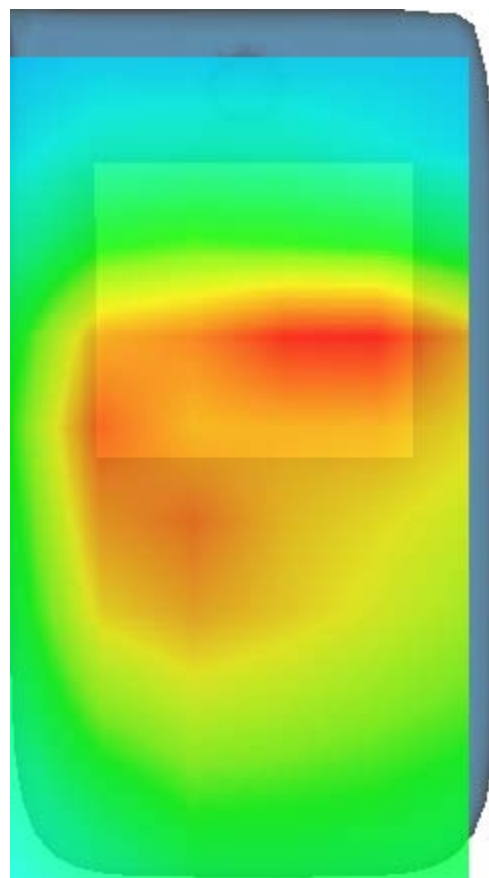
SAR 10g (W/Kg)	0.154427
SAR 1g (W/Kg)	0.277003



3D screen shot



Hot spot position



MEASUREMENT 27

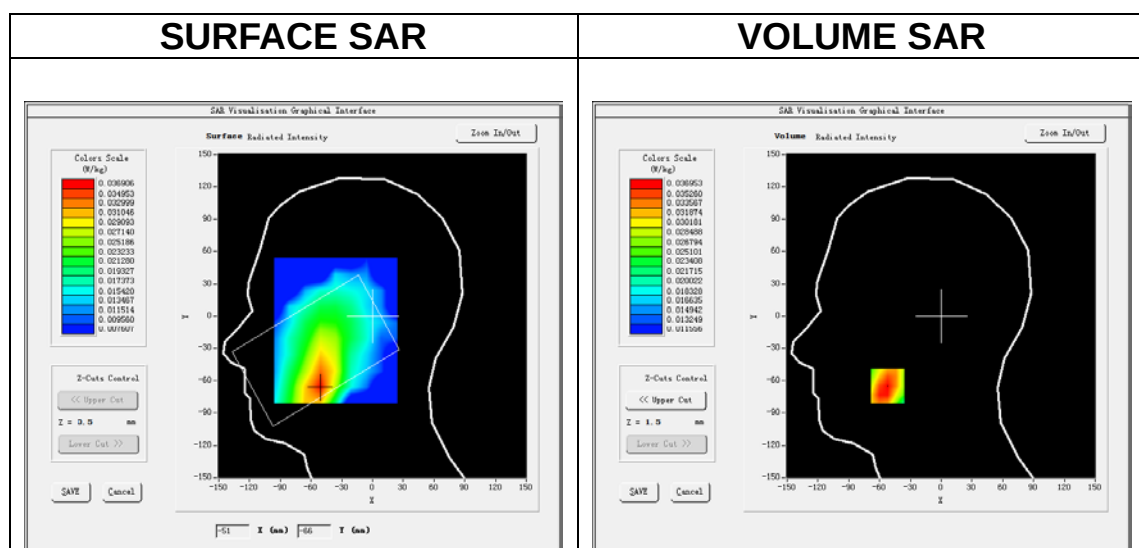
Date of measurement: 3/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

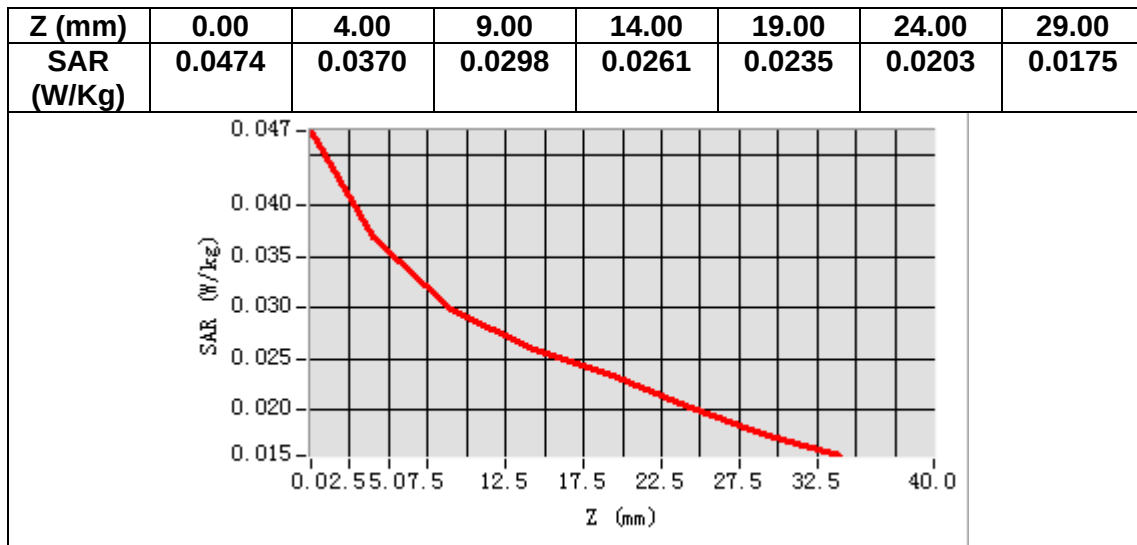
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.493599
Relative permittivity (imaginary part)	21.687977
Conductivity (S/m)	0.855470
Variation (%)	-0.810000



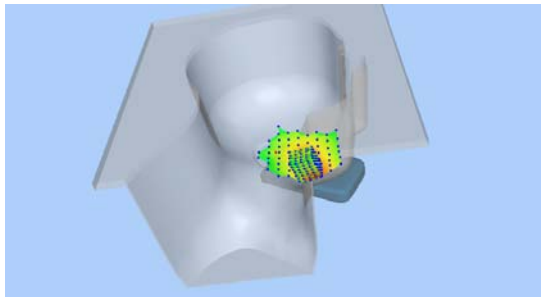
Maximum location: X=-52.00, Y=-65.00

SAR Peak: 0.05 W/kg

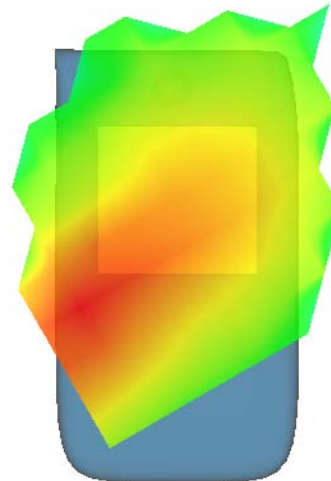
SAR 10g (W/Kg)	0.028924
SAR 1g (W/Kg)	0.037292



3D screen shot



Hot spot position



MEASUREMENT 28

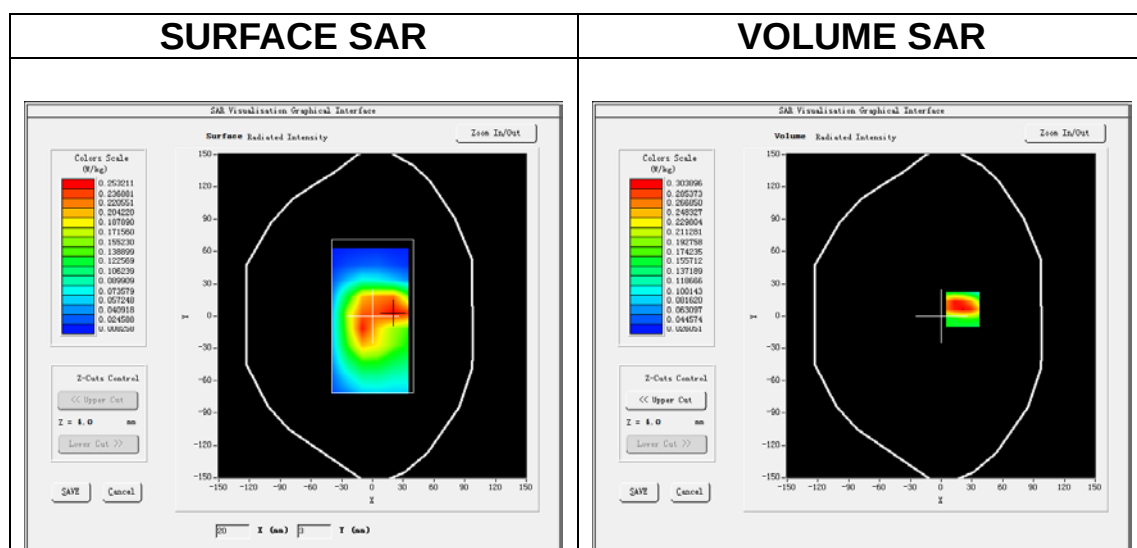
Date of measurement: 3/9/2021

A. Experimental conditions.

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

B. SAR Measurement Results

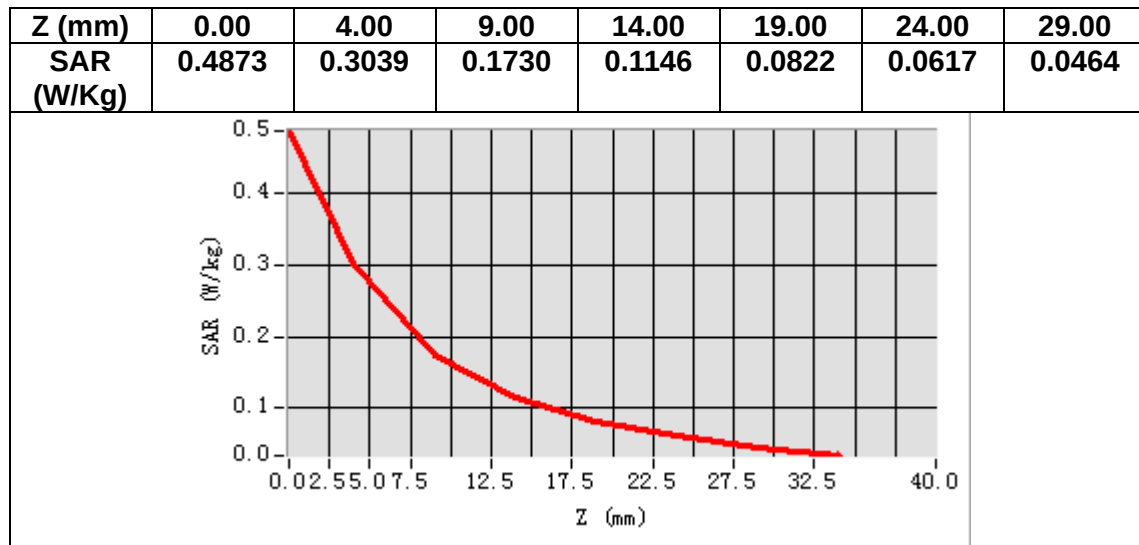
Frequency (MHz)	710.000000
Relative permittivity (real part)	42.493599
Relative permittivity (imaginary part)	21.687977
Conductivity (S/m)	0.855470
Variation (%)	-1.430000



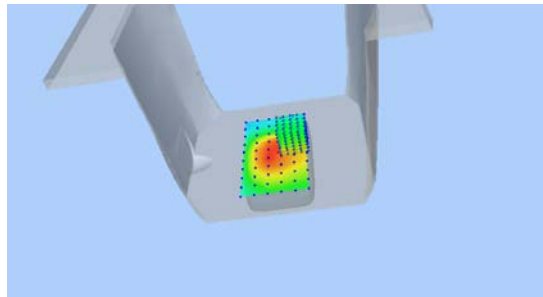
Maximum location: X=21.00, Y=6.00

SAR Peak: 0.52 W/kg

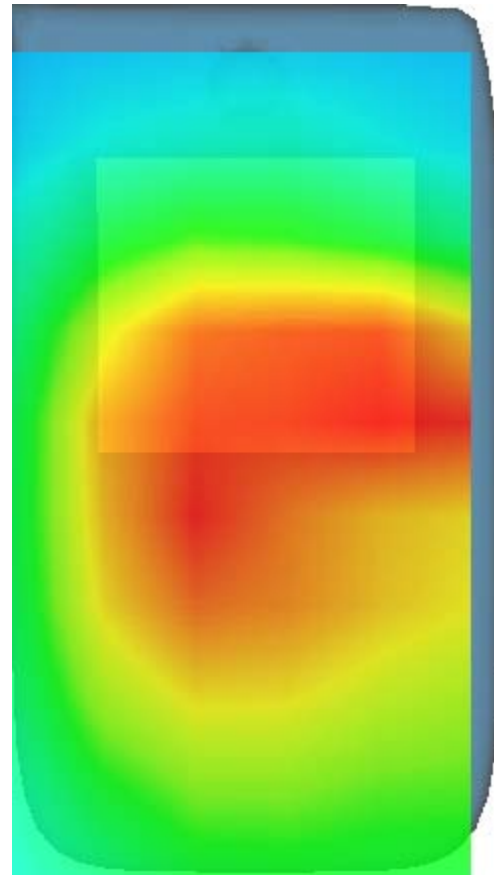
SAR 10g (W/Kg)	0.169859
SAR 1g (W/Kg)	0.307076



3D screen shot



Hot spot position



MEASUREMENT 29

Date of measurement: 8/9/2021

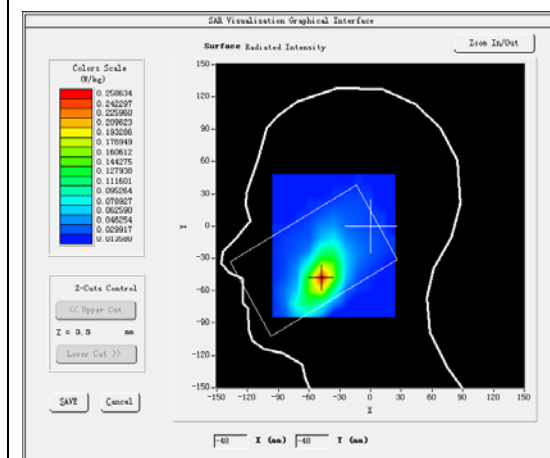
A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.6)</u>

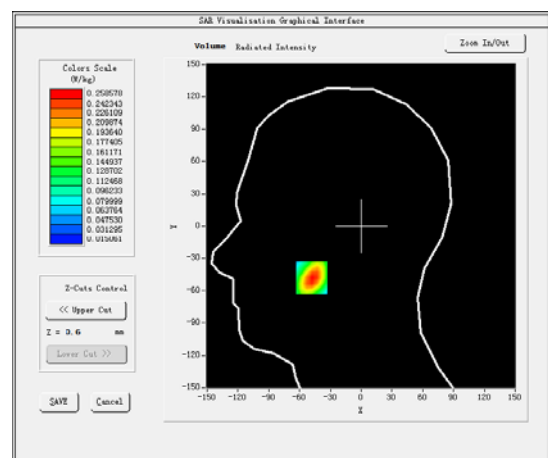
B. SAR Measurement Results

Frequency (MHz)	2593.000000
Relative permittivity (real part)	39.733685
Relative permittivity (imaginary part)	13.594339
Conductivity (S/m)	1.958340
Variation (%)	0.470000

SURFACE SAR



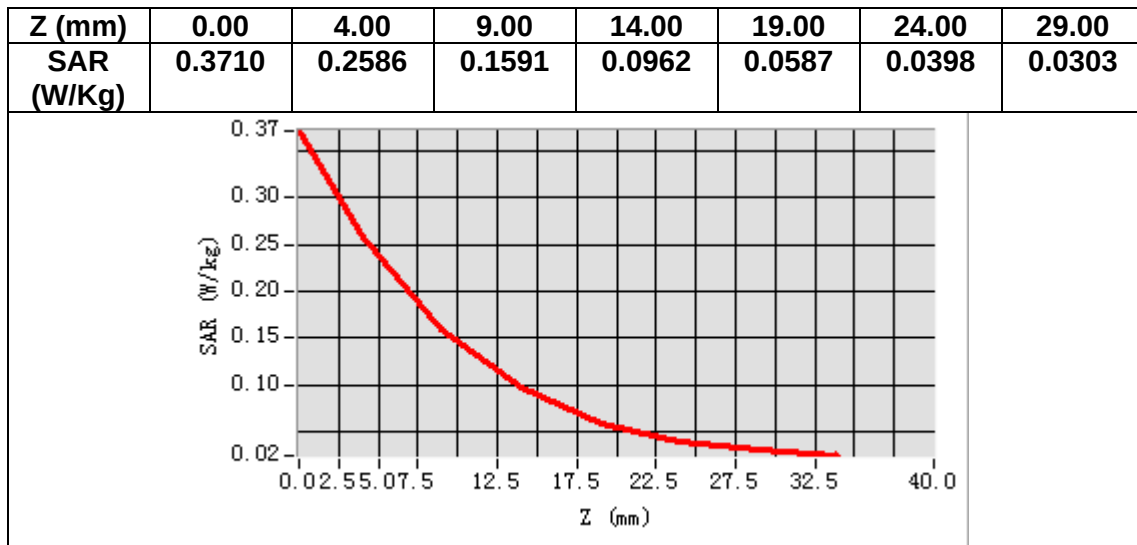
VOLUME SAR



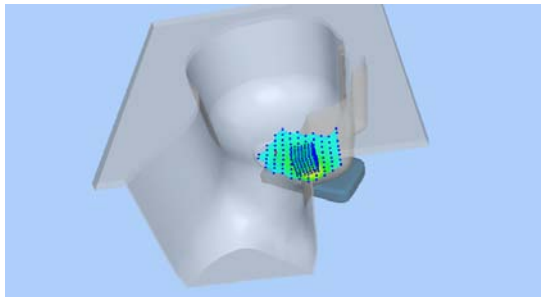
Maximum location: X=-48.00, Y=-48.00

SAR Peak: 0.38 W/kg

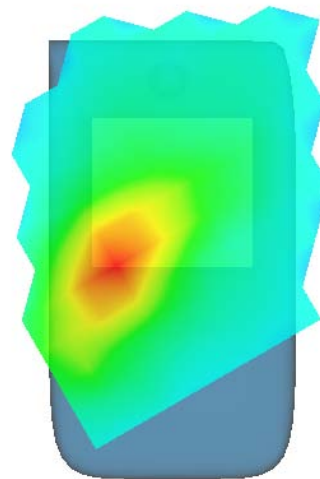
SAR 10g (W/Kg)	0.130946
SAR 1g (W/Kg)	0.237506



3D screen shot



Hot spot position



MEASUREMENT 30

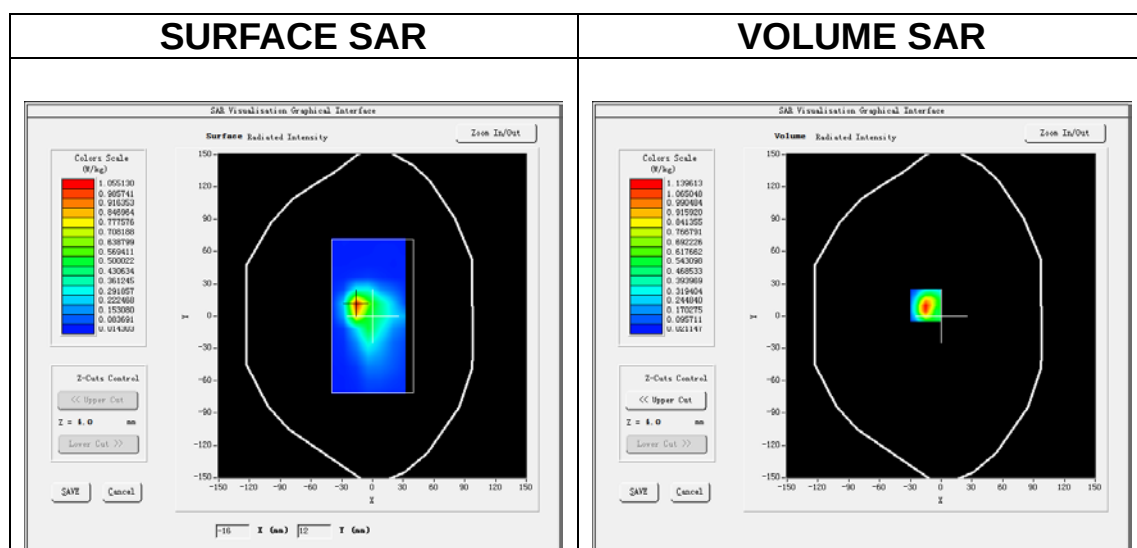
Date of measurement: 8/9/2021

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>7x7x7,dx=5mm dy=5mm dz=5mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 41</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.6)</u>

B. SAR Measurement Results

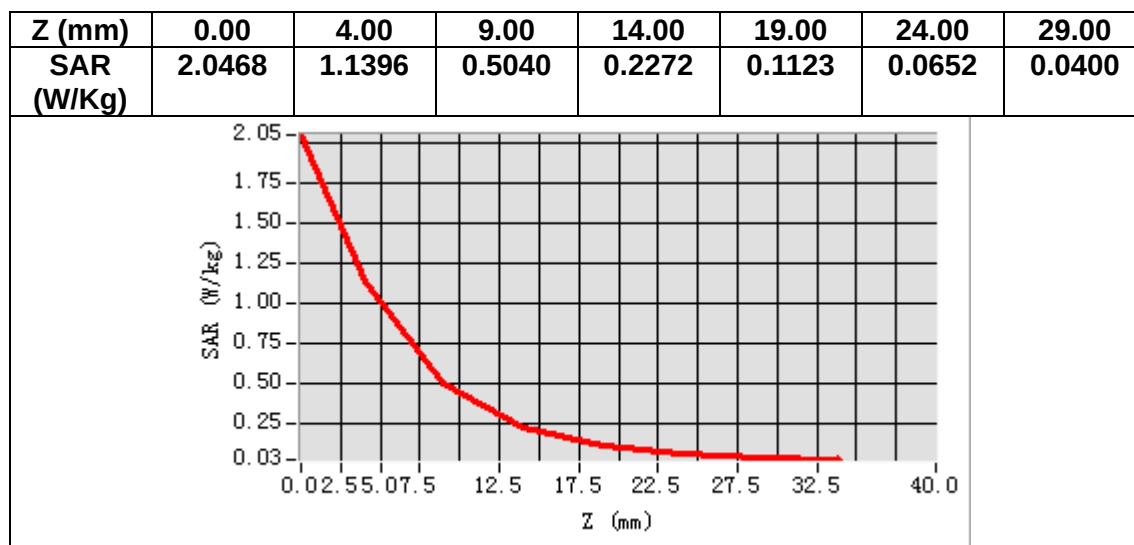
Frequency (MHz)	2593.000000
Relative permittivity (real part)	39.733685
Relative permittivity (imaginary part)	13.594339
Conductivity (S/m)	1.958340
Variation (%)	0.690000



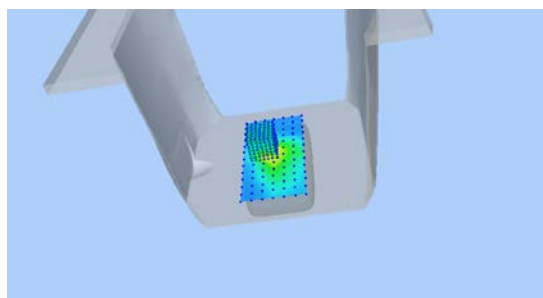
Maximum location: X=-15.00, Y=10.00

SAR Peak: 2.04 W/kg

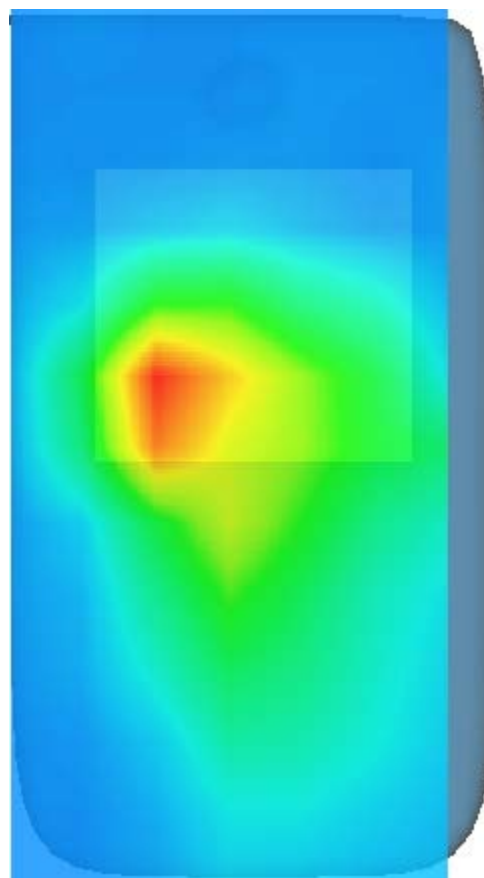
SAR 10g (W/Kg)	0.410322
SAR 1g (W/Kg)	1.001680



3D screen shot



Hot spot position



MEASUREMENT 31

Date of measurement: 2/9/2021

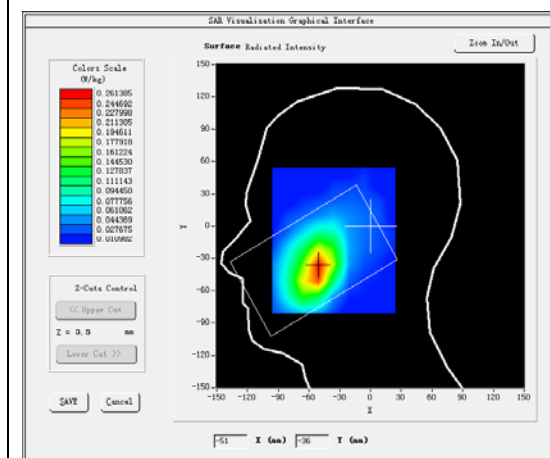
A. Experimental conditions.

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

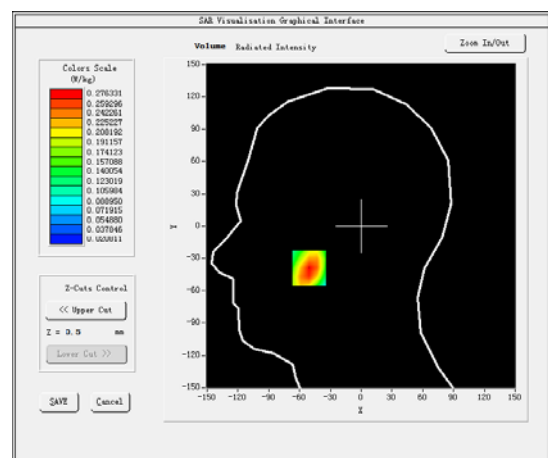
B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative permittivity (real part)	40.249725
Relative permittivity (imaginary part)	13.796117
Conductivity (S/m)	1.337457
Variation (%)	-0.870000

SURFACE SAR



VOLUME SAR



Maximum location: X=-51.00, Y=-39.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.169996
SAR 1g (W/Kg)	0.267552