



SAR TEST REPORT
For
SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Tablet
Test Model: RT1

Prepared for : SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
202, Building A2, Silicon Valley Power Intelligent Terminal
Address : Industrial Park, No. 20, Dafu Industrial Zone, Kukeng
Community, Guanlan Street, Longhua District, Shenzhen

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : May 31, 2022
Number of tested samples : 2
Sample No. : 220308118A-1, 220308118A-2
Serial number : Prototype
Date of Test : May 31, 2022~June 17, 2022
Date of Report : June 21, 2022



Scan code to check authenticity

**SAR TEST REPORT****Report Reference No. : LCSA052622052EB**

Date Of Issue : June 21, 2022

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name : SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD**

Address : 202, Building A2, Silicon Valley Power Intelligent Terminal Industrial Park, No. 20, Dafu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen

Test Specification:

Standard : IEEE Std C95.1, 2019/ IEEE Std 1528™-2013/FCC Part 2.1093

Test Report Form No. : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description..... : Tablet

Trade Mark : OUKITEL

Model/Type Reference : RT1

Operation Frequency : GSM 850,1900;WCDMA II/IV/V;
LTE2,4,5,7,12,17,25,26,,38,41,66;WLAN2.4G,5.2G,5.8G

Ratings : Please Refer to Page 7

Result : Positive**Compiled by:**

Jay Zhan

Jay Zhan/ File administrators

Supervised by:

Jin Wang

Jin Wang/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager

**SAR -- TEST REPORT**

Test Report No. :	LCSA052622052EB	<u>June 21, 2022</u> Date of issue
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Type / Model.....	: RT1
EUT.....	: Tablet
Applicant.....	: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address.....	202, Building A2, Silicon Valley Power Intelligent Terminal Industrial Park, No. 20, Dafu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address.....	202, Building A2, Silicon Valley Power Intelligent Terminal Industrial Park, No. 20, Dafu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen
Telephone.....	: /
Fax.....	: /
Factory.....	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Revision History

Revision	Issue Date	Revisions	Revised By
000	June 21, 2022	Initial Issue	Gavin Liang



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1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Test Standards

[IEEE Std C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

[IEEE Std 1528™-2013](#): IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

[FCC Part 2.1093 Radiofrequency Radiation Exposure Evaluation](#): Portable Devices

[KDB447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies

[KDB447498 D02 SAR Procedures for Dongle Xmtr v02r01](#): SAR Measurement Procedures For USB Dongle Transmitters.

[KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04](#): SAR Measurement Requirements for 100 MHz to 6 GHz

[KDB865664 D02 RF Exposure Reporting v01r02](#): RF Exposure Compliance Reporting and Documentation Considerations

[KDB 248227 D01 802.11 Wi-Fi SAR v02r02](#): SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

[KDB941225 D01 3G SAR Procedures](#): 3G SAR MEASUREMENT PROCEDURES

[KDB 941225 D05 SAR for LTE Devices](#): SAR Evaluation Considerations For LTE Devices

[KDB 616217 D04 SAR for laptop and tablets v01r02](#): SAR Evaluation procedures for umpc mini-tablet devices

[KDB648474 D04](#): Handset SAR v01r03: SAR Evaluation Considerations for Wireless Handsets

1.2. Test Description

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power. And Test device is identical prototype.

1.3. General Remarks

Date of receipt of test sample	:	May 31, 2022
Testing commenced on	:	May 31, 2022
Testing concluded on	:	June 17, 2022

1.4. Product Description

The SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD's Model: RT1 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

General Description	
EUT :	Tablet
Model/Type reference:	RT1
Additional Model No.	/
Model Declaration:	/
Hardware Version	P717_MAIN_PCB_V1.2
Software Version:	OUKITEL_RT1_EEA_V09_20220507
Power supply:	Input: 9.0V~2.0A For AC Adapter Input: 100-240V~, 50/60Hz, 0.6A Adapter Output: 5.0V~2.0A or 7.0V~2.0A or 9.0V~2.0A or 12.0V~1.5A 18.0W DC 3.85V by Rechargeable Li-ion Battery, 10000mAh
The EUT is Tablet. the Tablet is intended for WLAN transmission. It is equipped with	



WiFi2.4G,5.2G,5.8G; GSM 850,1900; WCDMA Band II, Band IV,Band V; LTE 2,4,5,7,12,17,25,26,38,41,66. For more information see the following datasheet

Technical Characteristics	
LTE	
Support Band:	☒ E-UTRA Band 2(U.S.-Band) ☒ E-UTRA Band 4(U.S.-Band) ☒ E-UTRA Band 5(U.S.-Band) ☒ E-UTRA Band 7(U.S.-Band) ☒ E-UTRA Band 12(U.S.-Band) ☒ E-UTRA Band 17(U.S.-Band) ☒ E-UTRA Band 25(U.S.-Band) ☒ E-UTRA Band 26(U.S.-Band) ☒ E-UTRA Band 38(U.S.-Band) ☒ E-UTRA Band 41(U.S.-Band) ☒ E-UTRA Band 66(U.S.-Band)
Modulation Type:	QPSK/16QAM
Release Version:	R9
Power Class:	Class 3
Antenna Description:	PIFA Antenna 0dBi (max.) For E-UTRA Band 2 0dBi (max.) For E-UTRA Band 4 0dBi (max.) For E-UTRA Band 5 0dBi (max.) For E-UTRA Band 7 0dBi (max.) For E-UTRA Band 12 0dBi (max.) For E-UTRA Band 17 0dBi (max.) For E-UTRA Band 25 0dBi (max.) For E-UTRA Band 26 0dBi (max.) For E-UTRA Band 38 0dBi (max.) For E-UTRA Band 41 0dBi (max.) For E-UTRA Band 66
Bluetooth	
Frequency Range:	2402MHz ~ 2480MHz
Chanel Number:	79 channels for Bluetooth V5.0(DSS) 40 channels for Bluetooth V5.0 (DTS)
Chanel Spacing:	1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type;	GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0(DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version:	V5.0
Antenna Description:	PIFA Antenna, 0dBi(Max.)
WIFI 2.4G	
Frequency Range:	2412MHz-2462MHz
Operation frequency:	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel number:	11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Channel separation:	5MHz
Antenna Description:	PIFA Antenna, 0dBi(Max.)
WIFI 5.2G	
Frequency Range:	5180MHz-5240MHz
Type of Modulation:	IEEE 802.11a/n/ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	4 channels for 20MHz bandwidth (5180-5240MHz) 2 channels for 40MHz bandwidth (5190~5230MHz) 1 channels for 80MHz bandwidth (5210MHz)



Channel separation:	5MHz
Antenna Description:	PIFA Antenna, 0dBi(Max.)
WIFI 5.8G	
Frequency Range:	5745-5825MHz
Type of Modulation:	IEEE 802.11a/n/ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Channel separation:	5MHz
Antenna Description:	PIFA Antenna, 0dBi(Max.)
UMTS	
Support Band:	☒ WCDMA Band II (U.S.-Band) ☒ WCDMA Band V (U.S.-Band) ☒ WCDMA Band IV (U.S.-Band) ☒ WCDMA Band I (EU-Band) ☒ WCDMA Band VIII (EU-Band)
Modulation Type:	QPSK,16QAM
WCDMA Release Version:	R8
Antenna Description:	PIFA Antenna 0dBi (max.) For WCDMA Band II 0dBi (max.) For WCDMA Band IV 0dBi (max.) For WCDMA Band V
GSM	
Support Band:	☒ GSM 900 (EU-Band) ☒ DCS 1800 (EU-Band) ☒ GSM 850 (U.S.-Band) ☒ PCS 1900 (U.S.-Band)
Frequency:	GSM850:824.2~848.8MHz GSM1900:1850.2~1909.8MHz
Release Version:	R99
GPRS Class	Class 12
EGPRS Class	Class 12
Modulation Type:	GMSK for GSM/GPRS; GMSK/8PSK for EGPRS
Antenna Description:	PIFA Antenna 0dBi (max.) For GSM 850 0dBi (max.) For PCS 1900
GPS function	Support and only RX



1.5. Statement of Compliance

The maximum of results of SAR found during testing for RT1 are follows:

<Highest Reported standalone SAR Summary>

Classment Class	Frequency Band	Head (Report SAR _{1-g} (W/kg))	Hotspot (Report SAR _{1-g} (W/kg))	Body-worn (Report SAR _{1-g} (W/kg))
			(Separation Distance 0mm)	
PCB	GSM 850	0.240	0.372	0.372
	GSM1900	0.183	0.308	0.308
	WCDMA Band V	0.102	0.227	0.227
	WCDMA Band IV	0.253	0.284	0.284
	WCDMA Band II	0.457	0.539	0.539
	LTE band 2	0.413	0.451	0.451
	LTE band 4	0.288	0.562	0.562
	LTE band 5	0.176	0.214	0.214
	LTE band 7	0.565	0.460	0.460
	LTE band 12	0.164	0.070	0.070
	LTE band 17	0.080	0.068	0.068
	LTE band 25	0.413	0.199	0.199
	LTE band 26	0.315	0.477	0.477
	LTE band 38	0.291	0.519	0.519
	LTE band 41	0.310	0.720	0.720
	LTE band 66	0.153	0.213	0.213
DTS	WIFI2.4G	0.125	0.286	0.286
NII	WIFI5.2G	0.116	0.224	0.224
	WIFI5.8G	0.041	0.143	0.143

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 C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

<Highest Reported simultaneous SAR Summary>

Exposure Position	Classment Class	Highest Reported Simultaneous Transmission SAR _{1-g} (W/kg)
Body-worn (hotspot open)	PCB	1.006
	DTS	



2. TEST ENVIRONMENT

2.1. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	18-25 ° C
Humidity:	40-65 %
Atmospheric pressure:	950-1050mbar

2.3. SAR Limits

FCC Limit (1g Tissue)

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average(averaged over the whole body)	0.08	0.4
Spatial Peak(averaged over any 1 g of tissue)	1.6	8.0
Spatial Peak(hands/wrists/ feet/anklesaveraged over 10 g)	4.0	20.0

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).



2.4. Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	PC	Lenovo	G5005	MY42081102	N/A	N/A
2	SAR Measurement system	SATIMO	4014_01	SAR_4014_01	N/A	N/A
3	Signal Generator	Agilent	E4438C	MY49072627	2022-06-10	2023-06-11
4	Multimeter	Keithley	MiltiMeter 2000	4059164	2021-11-13	2022-11-12
5	S-parameter Network Analyzer	Agilent	8753ES	US38432944	2021-11-13	2022-11-12
6	Wideband Radio Communication Tester	R&S	CMW500	103818-1	2021-11-20	2022-11-19
7	E-Field PROBE	MVG	SSE2	SN 31/17 EPGO324	2021-10-06	2022-10-05
8	DIPOLE 750	SATIMO	SID 750	SN 07/14 DIP 0G750-302	2021-09-29	2024-09-28
9	DIPOLE 835	SATIMO	SID 835	SN 07/14 DIP 0G835-303	2021-09-29	2024-09-28
10	DIPOLE 1800	SATIMO	SID 1800	SN 07/14 DIP 1G800-301	2021-09-29	2024-09-28
11	DIPOLE 1900	SATIMO	SID 1900	SN 38/18 DIP 1G900-466	2021-09-22	2024-09-21
12	DIPOLE 2450	SATIMO	SID 2450	SN 07/14 DIP 2G450-306	2021-09-29	2024-09-28
13	DIPOLE 2600	SATIMO	SID 2600	SN 38/18 DIP 2G600-468	2021-09-22	2024-09-21
14	DIPOLE 5000-6000	MVG	SWG5500	SN 49/16 WGA 43	2021-09-22	2024-09-21
15	COMOSAR OPENCoaxial Probe	SATIMO	OCPG 68	SN 40/14 OCPG68	2021-11-13	2022-11-12
16	SAR Locator	SATIMO	VPS51	SN 40/14 VPS51	2021-11-13	2022-11-12
17	Communication Antenna	SATIMO	ANTA57	SN 39/14 ANTA57	2021-11-13	2022-11-12
18	FEATURE PHONEPOSITIONING DEVICE	SATIMO	MSH98	SN 40/14 MSH98	N/A	N/A
19	DUMMY PROBE	SATIMO	DP60	SN 03/14 DP60	N/A	N/A
20	SAM PHANTOM	SATIMO	SAM117	SN 40/14 SAM117	N/A	N/A
21	Liquid measurement Kit	HP	85033D	3423A03482	2021-11-13	2022-11-12
22	Power meter	Agilent	E4419B	MY45104493	2022-06-10	2023-06-11
23	Power meter	Agilent	E4419B	MY45100308	2021-11-20	2022-11-19
24	Power sensor	Agilent	E9301H	MY41495616	2021-11-20	2022-11-19
25	Power sensor	Agilent	E9301H	MY41495234	2022-06-10	2023-06-11
26	Directional Coupler	MCLI/USA	4426-20	03746	2022-06-10	2023-06-11

Note:

- 1) Per KDB865664D01 requirements for dipole calibration, the test laboratory has adopted three year extended calibration interval. Each measured dipole is expected to evaluate with following criteria at least on annual interval.
 - a) There is no physical damage on the dipole;
 - b) System check with specific dipole is within 10% of calibrated values;
 - c) The most recent return-loss results,measued at least annually,deviates by no more than 20% from the previous measurement;
 - d) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

3. SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1. SARMeasurement Set-up

The OPENSAR system for performing compliance tests consist of the following items:

A standard high precision 6-axis robot (KUKA) with controller and software.

KUKA Control Panel (KCP)

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with a Video Positioning System(VPS).

The stress sensor is composed with mechanical and electronic when the electronic part detects a change on the electro-mechanical switch,It sends an “Emergency signal” to the robot controller that to stop robot’s moves

A computer operating Windows XP.

OPENSAR software

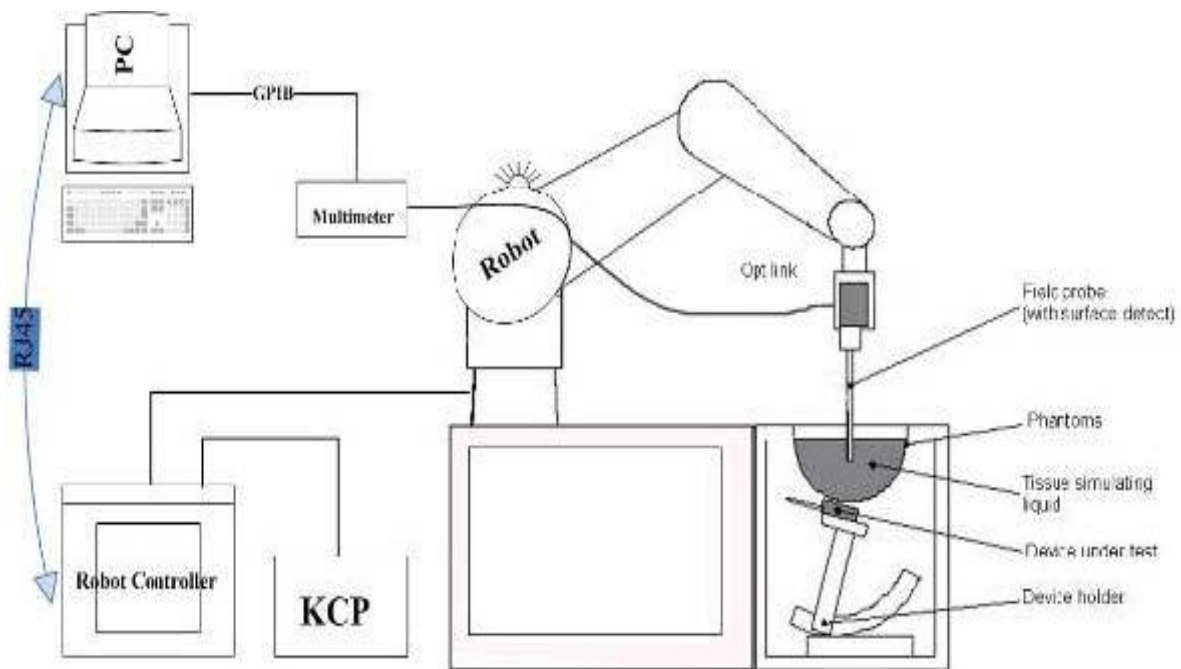
Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

The SAM phantom enabling testing left-hand right-hand and body usage.

The Position device for handheld EUT

Tissue simulating liquid mixed according to the given recipes .

System validation dipoles to validate the proper functioning of the system.





3.2. OPENSAR E-field Probe System

The SAR measurements were conducted with the dosimetric probe EPG0324 (manufactured by MVG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

Probe Specification

Construction Symmetrical design with triangular core

Interleaved sensors

Built-in shielding against static charges

PEEK enclosure material (resistant to organic solvents, e.g., DGBE)

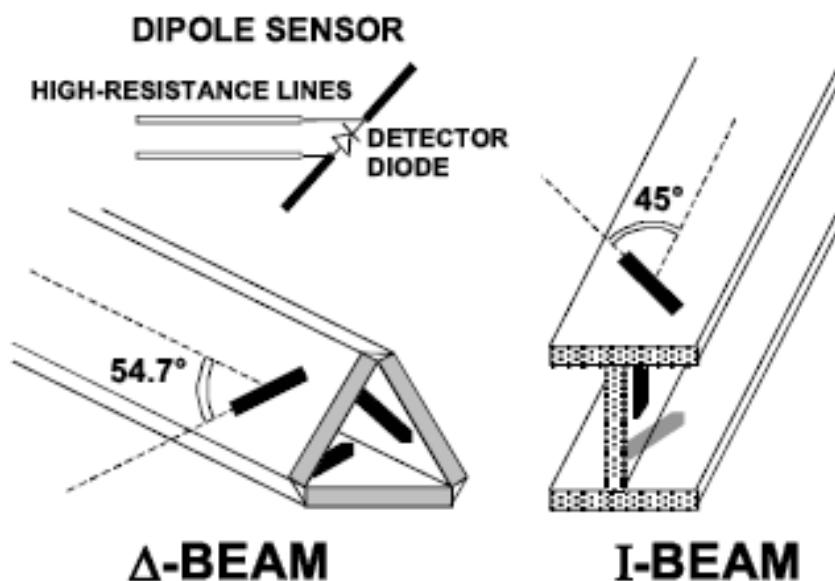
Calibration ISO/IEC 17025 calibration service available.

Frequency	450 MHz to 6 GHz; Linearity: 0.25 dB (450 MHz to 6 GHz)
Directivity	0.25 dB in HSL (rotation around probe axis) 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	0.01 W/kg to > 100 W/kg; Linearity: 0.25 dB
Dimensions	Overall length: 330 mm (Tip: 16 mm) Tip diameter: 5 mm (Body: 8 mm) Distance from probe tip to sensor centers: 2.5 mm
Application	General dosimetry up to 6 GHz Dosimetry in strong gradient fields Compliance tests of Mobile Phones

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

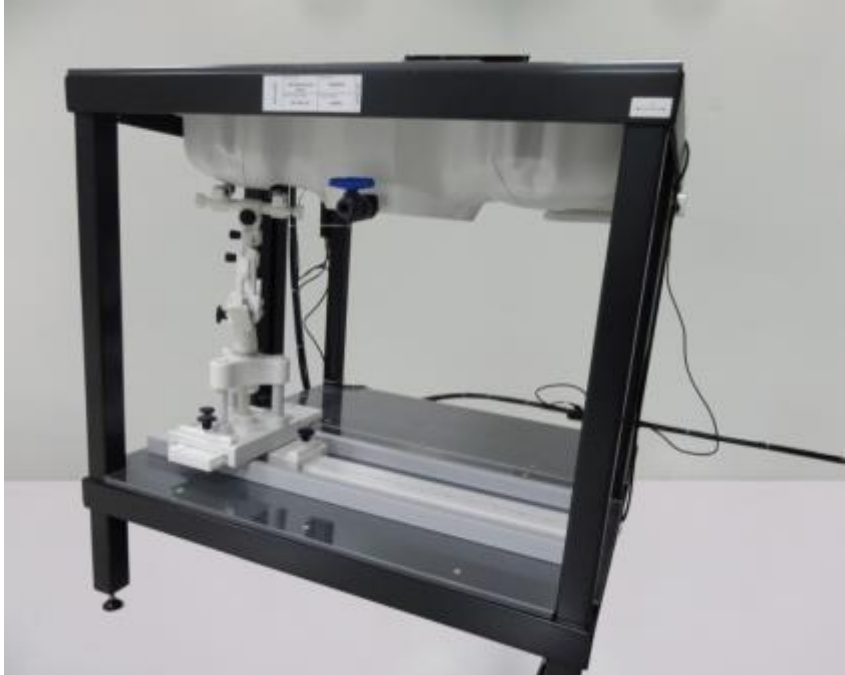
The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:



3.3. Phantoms

The SAM Phantom SAM117 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE 1528 and EN62209-1, EN62209-2. The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

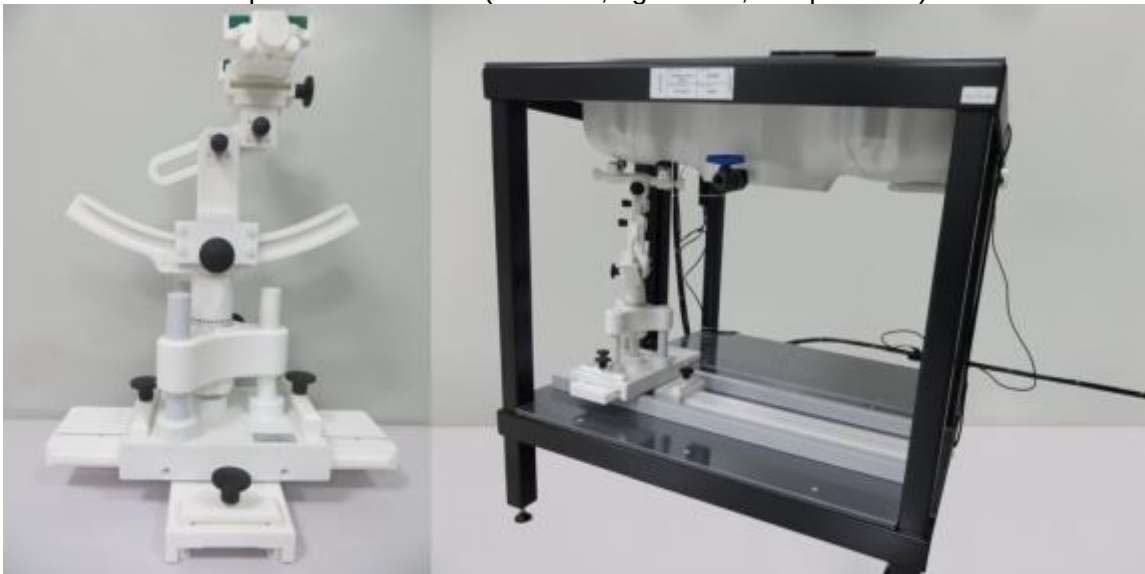
System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

3.4. Device Holder

In combination with the Generic Twin Phantom SAM117, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).



Device holder supplied by SATIMO



3.5. Scanning Procedure

The procedure for assessing the peak spatial-average SAR value consists of the following steps

Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° $\pm$ 1°	20° $\pm$ 1°
Maximum area scan spatial resolution: Δx_{Area} , Δy_{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.	

Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{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: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: 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
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ mm	
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 IEEE Std 1528-2013 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 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.				



Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have OPENSAR software stop the measurements if this limit is exceeded.

3.6. Data Storage and Evaluation

Data Storage

The OPENSAR software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The OPENSAR software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the OPENSAR components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i ($i = x, y, z$)
 U_i = input signal of channel i ($i = x, y, z$)
 cf = crest factor of exciting field
 dcp_i = diode compression point

From the compensated input signals the primary field data for each channel can be evaluated:



$$\text{E - field probes : } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H - field probes : } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With V_i = compensated signal of channel i ($i = x, y, z$)
 Norm_i = sensor sensitivity of channel i ($i = x, y, z$)
[mV/(V/m)²] for E-field Probes
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.



3.7. Tissue Dielectric Parameters for Head and Body Phantoms

The liquid is consisted of water,salt,Glycol,Sugar,Preventol and Cellulose.The liquid has previously been proven to be suited for worst-case.It's satisfying the latest tissue dielectric parameters requirements proposed by the KDB865664.

The composition of the tissue simulating liquid

Frequency (MHz)	Bactericide	DGBE	HEC	NaCl	Sucrose	1,2-Propanediol	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	ϵ_r
750	/	/	/	0.79	/	64.81	/	34.40	0.97	41.8
835	/	/	/	0.79	/	64.81	/	34.40	0.97	41.8
900	/	/	/	0.79	/	64.81	/	34.40	0.97	41.8
1800	/	13.84	/	0.35	/	/	30.45	55.36	1.38	41.0
1900	/	13.84	/	0.35	/	/	30.45	55.36	1.38	41.0
2000	/	7.99	/	0.16	/	/	19.97	71.88	1.55	41.1
2450	/	7.99	/	0.16	/	/	19.97	71.88	1.88	40.3
2600	/	7.99	/	0.16	/	/	19.97	71.88	1.88	40.3

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
2600	39.0	1.96	52.5	2.16
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

3.8. Tissue equivalent liquid properties

Dielectric Performance of Head and Body Tissue Simulating Liquid

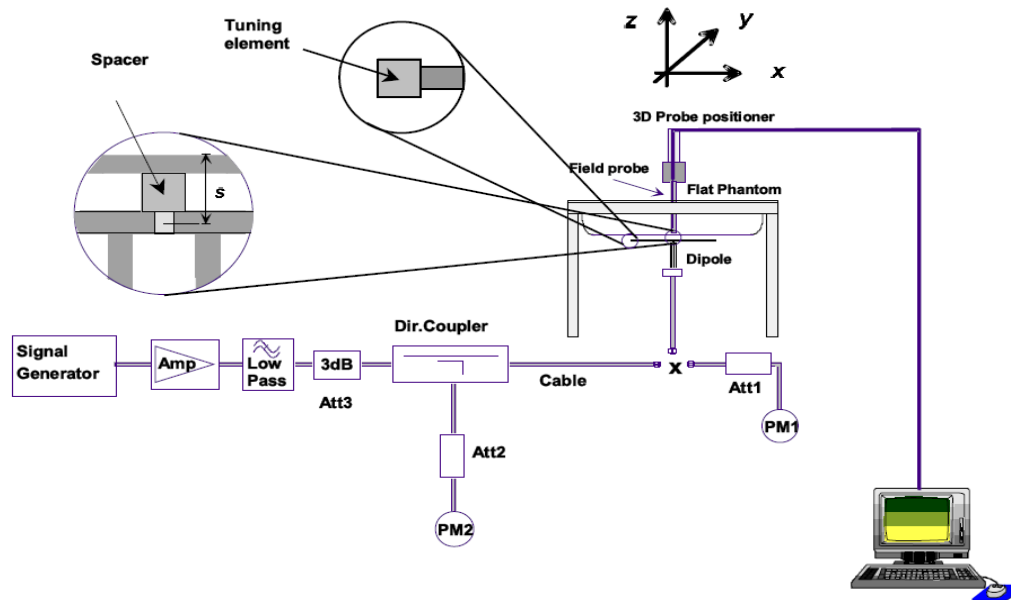
Test Engineer: Jay Zhan									
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue				Liquid Temp.	Test Data
		σ	ϵ_r	σ	Dev.	ϵ_r	Dev.		
750H	750	0.89	41.90	0.88	-1.12%	41.58	-0.76%	21.2	05/31/2022
835H	835	0.90	41.50	0.86	-4.44%	40.14	-3.28%	20.2	06/02/2022
1800H	1800	1.40	40.00	1.42	1.43%	41.59	3.98%	22.4	06/06/2022
1900H	1900	1.40	40.00	1.37	-2.14%	39.23	-1.93%	21.3	06/07/2022
2450H	2450	1.80	39.20	1.76	-2.22%	40.12	2.35%	22.3	06/08/2022
2600H	2600	4.66	36.00	4.59	-1.50%	35.81	-0.53%	22.1	06/13/2022
5200H	5200	5.30	49.00	5.25	-0.94%	48.80	-0.41%	23.2	06/16/2022
5800H	5800	6.00	48.20	6.05	0.83%	48.46	0.54%	22.2	06/17/2022



3.9. System Check

The purpose of the system check is to verify that the system operates within its specifications at the device test frequency. The system check is a simple check of repeatability to make sure that the system works correctly at the time of the compliance test;

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).



The output power on dipole port must be calibrated to 20 dBm (100mW) before dipole is connected.



Photo of Dipole Setup

**Justification for Extended SAR Dipole Calibrations**

Referring to KDB 865664D01V01r04, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended. While calibration intervals not exceed 3 years.

SID750 SN 07/14 DIP 0G750-302 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-34.80		-20.0		1.6	

SID835 SN 07/14 DIP 0G835-303 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-24.49		54.9		2.8	

SID1800 SN 30/14 DIP 1G800-301 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-20.26		43.1		6.9	

SID1900 SN 38/18 DIP 1G900-466 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-26.43		50.5		4.7	

SID2450 SN 07/14 DIP 2G450-306 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-25.59		44.7		-1.1	

SID2600 SN 38/18 DIP 2G600-468 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-29.14		49.2		3.4	

SID5200 SN 49/16 DIP WGA43 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-8.59		19.38		13.50	

SID5800 SN 49/16 DIP WGA43 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-11.37		54.79		25.47	



Mixture Type	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Liquid Temp	Date
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g		
Head	750	100 mW	0.824	0.562	1.42	8.38	5.53	-1.67%	1.63%	21.2	05/31/2022
		Normalize to 1 Watt	8.24	5.62							
Head	835	100 mW	0.975	0.632	-0.21	9.60	6.20	1.56%	1.94%	20.2	06/02/2022
		Normalize to 1 Watt	9.75	6.32							
Head	1800	100 mW	3.819	20.13	3.56	38.13	20.20	0.16%	-0.35%	22.4	06/06/2022
		Normalize to 1 Watt	38.19	20.13							
Head	1900	100 mW	3.921	2.068	-1.17	40.03	20.55	-2.05%	0.63%	21.3	06/07/2022
		Normalize to 1 Watt	39.21	20.68							
Head	2450	100 mW	5.224	2.343	0.24	53.89	24.15	-3.06%	-2.98%	22.3	06/08/2022
		Normalize to 1 Watt	52.24	23.43							
Head	2600	100 mW	5.511	2.458	3.25	56.91	24.69	-3.16%	-0.45%	22.1	06/13/2022
		Normalize to 1 Watt	55.11	24.58							
Head	5200	100 mW	15.467	5.512	-3.02	165.77	57.20	-6.70%	-3.64%	23.2	06/16/2022
		Normalize to 1 Watt	154.67	55.12							
Head	5800	100 mW	18.293	6.177	-1.01	186.77	62.84	-2.06%	-1.70%	22.2	06/17/2022
		Normalize to 1 Watt	182.93	61.77							



3.10. SAR measurement procedure

The measurement procedures are as follows:

3.10.1 Conducted power measurement

- For WWAN power measurement, use base station simulator connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously Transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power.

3.10.2 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a System Simulator (SS) by air link. Using CMU200 the power level is set to "5" for GSM 850, set to "0" for GSM 1900. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5. the EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

3.10.3 UMTS Test Configuration

3G SAR Test Reduction Procedure

In the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

Output power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.



1) Body-Worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

2) Handsets with Release 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the "Release 5 HSDPA Data Devices" section of this document, for the highest reported SAR body-worn accessory exposure configuration in 12.2 kbps RMC. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 2: Subtests for UMTS Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$

Note2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the "Release 6 HSPA Data Devices" section of this document, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the 'WCDMA Handset' and 'Release 5 HSDPA Data Devices' sections of this document.

Table 3: Sub-Test 5 Setup for Release 6 HSUPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92



4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Figure 5.1g.

Note 6: β_d can not be set directly; it is set by Absolute Grant Value.

3.10.4 WIFI Test Configuration

The SAR measurement and test reduction procedures are structured according to either the DSSS or OFDM transmission mode configurations used in each standalone frequency band and aggregated band. For devices that operate in exposure configurations that require multiple test positions, additional SAR test reduction may be applied. The maximum output power specified for production units, including tune-up tolerance, are used to determine initial SAR test requirements for the 802.11 transmission modes in a frequency band. SAR is measured using the highest measured maximum output power channel for the initial test configuration. SAR measurement and test reduction for the remaining 802.11 modes and test channels are determined according to measured or specified maximum output power and reported SAR of the initial measurements. The general test reduction and SAR measurement approaches are summarized in the following:

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.
2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, an "initial test configuration" is first determined for each standalone and aggregated frequency band according to the maximum output power and tune-up tolerance specified for production units.
 - a. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
 - b. SAR is measured for OFDM configurations using the initial test configuration procedures. Additional frequency band specific SAR test reduction may be considered for individual frequency bands
 - c. Depending on the reported SAR of the highest maximum output power channel tested in the initial test configuration, SAR test reduction may apply to subsequent highest output channels in the initial test configuration to reduce the number of SAR measurements.
3. The Initial test configuration does not apply to DSSS. The 2.4 GHz band SAR test requirements and 802.11b DSSS procedures are used to establish the transmission configurations required for SAR measurement.
4. An "initial test position" is applied to further reduce the number of SAR tests for devices operating in next to the ear, UMPC mini-tablet or hotspot mode exposure configurations that require multiple test positions.
 - a. SAR is measured for 802.11b according to the 2.4 GHz DSSS procedure using the exposure condition established by the initial test position.
 - b. SAR is measured for 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration. 802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on the maximum average output channel.
5. The Initial test position does not apply to devices that require a fixed exposure test position. SAR is measured in a fixed exposure test position for these devices in 802.11b according to the 2.4 GHz DSSS procedure or in 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration procedures.
6. The "subsequent test configuration" procedures are applied to determine if additional SAR measurements are required for the remaining OFDM transmission modes that have not been tested in the initial test configuration. SAR test exclusion is determined according to reported SAR in the initial test configuration and maximum output power specified or measured for these other OFDM configurations.

2.4 GHz and 5GHz SAR Procedures



Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in section 5.2.2.

1. 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- a. When the reported SAR of the highest measured maximum output power channel (section 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- b. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

1. 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3). SAR is not required for the following 2.4 GHz OFDM conditions.

- a. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration
- b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

2. SAR Test Requirements for OFDM Configurations

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements.²⁰ In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

3. OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures (section 4). When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- a. The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- b. If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- c. If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- d. When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

- a. Channels with measured maximum output power within $\frac{1}{4}$ dB of each other are considered to have the same maximum output.
- b. When there are multiple test channels with the same measured maximum output power, the channel closest to mid-band frequency is selected for SAR measurement.



- c. When there are multiple test channels with the same measured maximum output power and equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required (see section 5.3.2). SAR test reduction of subsequent highest output test channels is based on the reported SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode.²³ For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

4. Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in section 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- a. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- c. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - 1). SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - 2). SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested.
 - a) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- d. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - 1) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - 2) replace "initial test configuration" with "all tested higher output power configurations."



3.11. Power Reduction

The product without any power reduction.

3.12. Power Drift

To control the output power stability during the SAR test, SAR system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. This ensures that the power drift during one measurement is within 5%.



4. TEST CONDITIONS AND RESULTS

4.1. Conducted Power Results

According KDB 447498D01 General RF Exposure Guidance v06 Section 4.1 2) states that “Unless it is specified differently in the published RF exposure KDB procedures, these requirements also apply to test reduction and test exclusion considerations. Time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged ERP applies to MPE. When an antenna port is not available on the device to support conducted power measurement, such as FRS and certain Part 15 transmitters with built-in integral antennas, the maximum output power allowed for production units should be used to determine RF exposure test exclusion and compliance.”

<GSM Conducted Power>

General Note:

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. According to October 2013TCB Workshop, for GSM / GPRS / EGPRS, the number of time slots to test for SAR should correspond to the highest frame-average maximum output power configuration, considering the possibility of e.g. 3rd party VoIP operation for head and body-worn SAR testing, the EUT was set in GPRS (4Tx slot) for GSM850/GSM1900 band due to their highest frame-average power.
3. For hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (4 Tx slots) for GSM850/GSM1900 band due to its highest frame-average power.

Conducted power measurement results for GSM850/PCS1900

GSM 850		Tune-up	Burst Conducted power (dBm)			Division Factors	Tune-up	Average power (dBm)		
			Channel/Frequency(MHz)					Channel/Frequency(MHz)		
		Max	128/824.2	190/836.6	251/848.8		Max	128/824.2	190/836.6	251/848.8
GSM		33.00	32.69	32.72	32.66	-9.03dB	23.97	23.66	23.69	23.63
GPRS (GMSK)	1TX slot	33.00	32.51	32.56	32.53	-9.03dB	23.97	23.48	23.53	23.50
	2TX slot	31.50	31.00	31.02	30.95	-6.02dB	25.48	24.98	25.00	24.93
	3TX slot	29.50	29.47	29.48	29.43	-4.26dB	25.24	25.21	25.22	25.17
	4TX slot	28.50	27.97	28.02	27.98	-3.01dB	25.49	24.96	25.01	24.97
EGPRS (8PSK)	1TX slot	26.00	25.99	26.00	25.98	-9.03dB	16.97	16.96	16.97	16.95
	2TX slot	25.00	24.51	24.48	24.43	-6.02dB	18.98	18.49	18.46	18.41
	3TX slot	23.00	22.98	22.98	22.94	-4.26dB	18.74	18.72	18.72	18.68
	4TX slot	21.50	21.45	21.50	21.48	-3.01dB	18.49	18.44	18.49	18.47
GSM 1900		Tune-up	Burst Conducted power (dBm)			Division Factors	Tune-up	Average power (dBm)		
			Channel/Frequency(MHz)					Channel/Frequency(MHz)		
		Max	512/1850.2	661/1880	810/1909.8		Max.	512/1850.2	661/1880	810/1909.8
GSM		30.00	29.65	29.73	29.67	-9.03dB	20.97	20.62	20.70	20.64
GPRS (GMSK)	1TX slot	30.00	29.50	29.56	29.52	-9.03dB	20.97	20.47	20.53	20.49
	2TX slot	28.00	27.96	27.99	27.97	-6.02dB	21.98	21.94	21.97	21.95
	3TX slot	26.50	26.46	26.48	26.48	-4.26dB	22.24	22.20	22.22	22.22
	4TX slot	25.50	24.95	25.01	24.94	-3.01dB	22.49	21.94	22.00	21.93
EGPRS (8PSK)	1TX slot	25.50	25.44	25.50	25.46	-9.03dB	16.47	16.41	16.47	16.43
	2TX slot	24.50	23.98	24.01	23.97	-6.02dB	18.48	17.96	17.99	17.95
	3TX slot	23.00	22.49	22.52	22.48	-4.26dB	18.74	18.23	18.26	18.22
	4TX slot	21.50	20.98	21.03	20.96	-3.01dB	18.49	17.97	18.02	17.95

Notes:

1. Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.00dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.00dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.00dB

2. According to the conducted power as above, the GPRS measurements are performed with 4Txslot for GPRS850 and 4Txslot GPRS1900.

**<UMTS Conducted Power>**

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration**HSUPA Setup Configuration:**

- a. The EUT was connected to Base Station R&S CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting *:
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode = Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference. Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$. Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$. Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g. Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.													

General Note

1. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
2. By design, AMR and HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
3. It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.

Conducted Power Measurement Results(WCDMA Band II/ IV /V)

Item	Band	FDD Band V result (dBm)			FDD Band IV result (dBm)			FDD Band II result (dBm)		
		Test Channel			Test Channel			Test Channel		
		4132/ 826.4	4183/ 836.6	4233/ 846.6	1312/ 1712.4	1413/ 1732.6	1513/ 1752.6	9262/ 1852.4	9400/ 1880	9538/ 1907.6
RMC	12.2kbps	22.79	22.85	22.64	23.09	23.22	23.20	23.42	23.28	23.25
HSDPA	Subtest 1	22.59	22.72	22.73	22.47	22.54	22.58	22.59	22.72	22.49
	Subtest 2	22.69	22.67	22.67	22.64	22.64	22.58	22.49	22.53	22.47
	Subtest 3	22.55	22.77	22.46	22.55	22.71	22.50	22.44	22.55	22.55
	Subtest 4	22.66	22.70	22.71	22.41	22.63	22.50	22.47	22.47	22.47
HSUPA	Subtest 1	22.52	22.60	22.53	22.49	22.63	22.35	22.59	22.47	22.46
	Subtest 2	22.55	22.66	22.64	22.59	22.67	22.53	22.58	22.56	22.49
	Subtest 3	22.43	22.62	22.61	22.65	22.59	22.50	22.62	22.65	22.34
	Subtest 4	21.58	21.73	21.49	22.40	22.45	22.48	22.37	22.34	22.40
	Subtest 5	21.76	21.05	21.81	21.32	21.64	21.45	21.40	21.69	21.53

Note:1. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.



LTE Band2

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1850.7	1	0	23.45	22.17
		1	2	23.72	22.38
		1	5	23.46	22.18
		3	0	23.49	22.28
		3	1	23.48	22.31
		3	3	23.51	22.29
		6	0	22.49	21.26
	1880.0	1	0	23.39	22.30
		1	2	23.51	22.45
		1	5	23.36	22.31
		3	0	23.44	22.24
		3	1	23.49	22.21
		3	3	23.46	22.20
		6	0	22.46	21.41
	1909.3	1	0	23.38	22.11
		1	2	23.57	22.28
		1	5	23.38	22.08
		3	0	23.41	22.19
		3	1	23.42	22.20
		3	3	23.50	22.23
		6	0	22.41	21.22
3	1851.5	1	0	23.40	22.40
		1	8	23.39	22.23
		1	14	23.47	22.19
		8	0	22.45	21.42
		8	4	22.43	21.44
		8	7	22.40	21.34
		15	0	22.38	21.36
	1880.0	1	0	23.40	22.31
		1	8	23.50	22.25
		1	14	23.44	22.21
		8	0	22.39	21.37
		8	4	22.42	21.46
		8	7	22.41	21.40
		15	0	22.39	21.27
	1908.5	1	0	23.37	22.38
		1	8	23.32	22.33
		1	14	23.28	22.10
		8	0	22.39	21.36
		8	4	22.39	21.34
		8	7	22.32	21.26
		15	0	22.36	21.24
5	1852.5	1	0	23.38	22.28
		1	12	23.48	22.38
		1	24	23.35	22.27
		12	0	22.42	21.38
		12	6	22.42	21.35
		12	13	22.32	21.30
		25	0	22.39	21.37
	1880.0	1	0	23.40	22.33
		1	12	23.48	22.39
		1	24	23.39	22.29
		12	0	22.42	21.39
		12	6	22.39	21.39
		12	13	22.39	21.35
		25	0	22.42	21.42
	1907.5	1	0	23.29	22.37
		1	12	23.35	22.47



		1	24	23.27	22.26
		12	0	22.37	21.39
		12	6	22.39	21.38
		12	13	22.31	21.29
		25	0	22.38	21.31
10	1855.0	1	0	23.16	22.16
		1	24	23.26	22.40
		1	49	23.23	22.23
		25	0	22.35	21.29
		25	12	22.31	21.27
		25	25	22.27	21.26
		50	0	22.24	21.24
	1880.0	1	0	23.27	22.28
		1	24	23.46	22.42
		1	49	23.26	22.30
		25	0	22.28	21.26
		25	12	22.31	21.29
		25	25	22.30	21.34
		50	0	22.35	21.28
	1905.0	1	0	23.33	22.25
		1	24	23.49	22.30
		1	49	23.31	22.09
		25	0	22.34	21.39
		25	12	22.39	21.38
		25	25	22.41	21.46
		50	0	22.42	21.42
15	1857.5	1	0	23.35	22.39
		1	38	23.39	22.49
		1	74	23.23	22.33
		37	0	22.31	22.37
		37	18	22.38	22.40
		37	37	22.38	22.32
		75	0	22.55	21.49
	1880.0	1	0	23.34	22.32
		1	38	23.41	22.54
		1	74	23.26	22.37
		37	0	22.40	22.34
		37	18	22.38	22.45
		37	37	22.27	22.33
		75	0	22.40	21.42
	1902.5	1	0	23.27	22.28
		1	38	23.37	22.45
		1	74	23.23	22.20
		37	0	22.32	22.38
		37	18	22.54	22.51
		37	37	22.29	22.21
		75	0	22.44	21.40
20	1860.0	1	0	23.19	22.07
		1	49	23.37	22.31
		1	99	23.25	22.13
		50	0	22.34	21.37
		50	25	22.34	21.34
		50	50	22.25	21.27
		100	0	22.28	21.30
	1880.0	1	0	23.26	22.10
		1	49	23.40	22.25
		1	99	23.22	22.10
		50	0	22.11	21.06
		50	25	22.08	21.13
		50	50	22.26	21.26
		100	0	22.20	21.16



	1900.0	1	0	23.21	22.13
		1	49	23.49	22.41
		1	99	23.21	22.11
		50	0	22.43	21.38
		50	25	22.46	21.46
		50	50	22.46	21.46
		100	0	22.40	21.42



LTE Band4

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1710.7	1	0	23.12	22.03
		1	2	23.18	22.12
		1	5	23.10	22.01
		3	0	23.20	22.01
		3	1	23.22	21.98
		3	3	23.22	21.97
		6	0	22.21	21.20
	1732.5	1	0	23.18	21.94
		1	2	23.30	22.08
		1	5	23.18	21.90
		3	0	23.18	21.95
		3	1	23.18	21.92
		3	3	23.17	21.87
		6	0	22.22	21.22
	1754.3	1	0	23.21	22.01
		1	2	23.38	22.17
		1	5	23.25	22.04
		3	0	23.30	22.10
		3	1	23.30	22.11
		3	3	23.34	22.12
		6	0	22.26	21.17
3	1711.5	1	0	23.14	22.15
		1	8	23.13	22.17
		1	14	23.14	22.12
		8	0	22.16	21.24
		8	4	22.17	21.23
		8	7	22.17	21.21
		15	0	22.11	21.19
	1732.5	1	0	23.15	22.13
		1	8	23.11	22.05
		1	14	23.12	22.06
		8	0	22.22	21.19
		8	4	22.23	21.22
		8	7	22.15	21.15
		15	0	22.15	21.16
	1753.5	1	0	23.23	22.14
		1	8	23.18	22.20
		1	14	23.18	22.23
		8	0	22.22	21.30
		8	4	22.26	21.30
		8	7	22.26	21.31
		15	0	22.18	21.27
5	1712.0	1	0	23.13	22.03
		1	12	23.34	22.19
		1	24	23.14	22.05
		12	0	22.19	21.12
		12	6	22.17	21.15
		12	13	22.26	21.25
		25	0	22.21	21.25
	1732.5	1	0	23.16	22.03
		1	12	23.22	22.12
		1	24	23.11	21.94
		12	0	22.20	21.18
		12	6	22.15	21.15
		12	13	22.07	21.07
		25	0	22.09	21.14
	1752.5	1	0	23.06	22.09
		1	12	23.29	22.31



		1	24	23.15	22.16
		12	0	22.20	21.30
		12	6	22.21	21.27
		12	13	22.20	21.29
		25	0	22.24	21.26
10	1715.0	1	0	23.14	22.17
		1	24	23.29	22.30
		1	49	23.12	22.09
		25	0	22.17	21.20
		25	12	22.15	21.20
		25	25	22.28	21.30
		50	0	22.23	21.28
	1732.5	1	0	23.19	22.17
		1	24	23.36	22.15
		1	49	23.07	21.96
		25	0	22.22	21.24
		25	12	22.24	21.25
		25	25	22.01	21.04
		50	0	22.18	21.18
	1750.0	1	0	23.11	21.77
		1	24	23.38	22.05
		1	49	23.23	21.97
		25	0	22.10	21.22
		25	12	22.10	21.17
		25	25	22.28	21.33
		50	0	22.19	21.27
15	1717.5	1	0	23.06	22.10
		1	38	23.15	22.16
		1	74	22.98	22.03
		37	0	22.04	22.03
		37	18	22.11	22.13
		37	37	21.99	22.02
		75	0	22.18	21.19
	1732.5	1	0	23.17	22.19
		1	38	23.12	22.07
		1	74	23.03	21.92
		37	0	22.18	22.15
		37	18	22.11	22.08
		37	37	21.91	21.91
		75	0	22.26	21.14
	1747.5	1	0	22.98	21.89
		1	38	23.01	22.03
		1	74	23.09	22.13
		37	0	21.90	21.90
		37	18	21.99	22.01
		37	37	22.11	22.10
		75	0	22.32	21.22
20	1720.0	1	0	23.12	22.01
		1	49	23.28	22.12
		1	99	22.94	21.84
		50	0	21.94	21.01
		50	25	21.98	21.01
		50	50	22.12	21.15
		100	0	22.00	21.12
	1732.5	1	0	23.14	22.05
		1	49	23.29	22.02
		1	99	23.03	21.82
		50	0	22.19	21.29
		50	25	22.20	21.25
		50	50	21.90	20.94
		100	0	22.10	21.08



	1745.0	1	0	23.04	21.81
		1	49	23.14	21.98
		1	99	23.13	21.97
		50	0	22.25	21.30
		50	25	22.19	21.23
		50	50	22.11	21.14
		100	0	22.14	21.20



LTE Band5

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	824.7	1	0	23.05	22.04
		1	2	23.16	22.20
		1	5	23.08	22.02
		3	0	23.18	21.97
		3	1	23.22	21.97
		3	3	23.21	22.00
		6	0	22.05	21.19
	836.5	1	0	23.11	21.87
		1	2	23.13	22.04
		1	5	22.99	21.95
		3	0	23.08	21.90
		3	1	23.10	21.87
		3	3	23.09	21.92
		6	0	21.97	20.95
	848.3	1	0	22.88	21.59
		1	2	23.11	21.82
		1	5	22.85	21.62
		3	0	22.96	21.77
		3	1	23.00	21.73
		3	3	23.01	21.70
		6	0	21.89	20.95
3	825.5	1	0	22.96	22.02
		1	8	23.06	22.04
		1	14	23.02	22.00
		8	0	22.02	21.10
		8	4	21.96	21.10
		8	7	21.99	21.11
		15	0	22.00	21.08
	836.5	1	0	23.05	22.05
		1	8	23.07	22.01
		1	14	22.99	21.99
		8	0	21.97	21.13
		8	4	22.01	21.12
		8	7	21.98	21.12
		15	0	21.99	21.05
	847.5	1	0	22.80	21.87
		1	8	22.81	21.78
		1	14	22.81	21.82
		8	0	21.75	20.92
		8	4	21.80	20.92
		8	7	21.76	20.89
		15	0	21.79	20.89
5	826.5	1	0	23.09	22.06
		1	12	23.21	22.17
		1	24	23.10	22.05
		12	0	22.16	21.17
		12	6	22.11	21.18
		12	13	22.20	21.20
		25	0	22.15	21.26
	836.5	1	0	22.98	22.10
		1	12	23.09	22.17
		1	24	22.94	21.99
		12	0	22.07	21.16
		12	6	22.06	21.22
		12	13	22.03	21.10
		25	0	22.05	21.09
	846.5	1	0	22.90	21.79
		1	12	23.00	21.91



		1	24	22.83	21.76
		12	0	21.96	21.03
		12	6	21.95	21.06
		12	13	21.84	20.98
		25	0	21.91	21.07
10	829.0	1	0	23.13	22.08
		1	24	23.22	22.27
		1	49	23.07	22.11
		25	0	22.15	21.21
		25	12	22.12	21.23
		25	25	22.23	21.26
		50	0	22.18	21.26
	836.5	1	0	23.10	22.01
		1	24	23.19	22.04
		1	49	22.93	21.91
		25	0	22.18	21.27
		25	12	22.17	21.29
		25	25	22.01	21.13
		50	0	22.07	21.20
	844.0	1	0	22.99	21.78
		1	24	23.16	21.82
		1	49	22.90	21.68
		25	0	22.05	21.17
		25	12	22.06	21.20
		25	25	21.86	20.97
		50	0	21.98	21.06



LTE Band 7

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2502.5	1	0	22.80	21.83
		1	12	22.95	21.84
		1	24	22.72	21.77
		12	0	21.95	20.85
		12	6	21.96	20.92
		12	13	21.85	20.82
		25	0	21.91	20.92
	2535.0	1	0	22.89	21.86
		1	12	23.06	21.95
		1	24	22.92	21.87
		12	0	22.02	20.96
		12	6	21.94	20.94
		12	13	21.94	20.92
		25	0	22.01	20.99
	2567.5	1	0	23.01	22.10
		1	12	23.11	22.14
		1	24	22.93	21.98
		12	0	22.16	21.12
		12	6	22.09	21.16
		12	13	22.05	21.02
		25	0	22.09	21.05
10	2505.0	1	0	22.90	21.95
		1	24	22.91	22.01
		1	49	22.79	21.85
		25	0	22.00	20.99
		25	12	21.99	20.97
		25	25	21.95	21.00
		50	0	22.01	20.96
	2535.0	1	0	22.96	21.92
		1	24	23.10	21.89
		1	49	22.63	21.69
		25	0	21.76	20.90
		25	12	22.04	20.98
		25	25	21.95	20.92
		50	0	21.82	20.81
	2565.0	1	0	22.61	21.45
		1	24	22.79	21.60
		1	49	22.53	21.39
		25	0	21.69	20.75
		25	12	21.75	20.67
		25	25	21.57	20.53
		50	0	21.61	20.67
15	2507.5	1	0	22.83	21.91
		1	38	22.91	22.01
		1	74	22.65	21.72
		37	0	21.90	21.86
		37	18	21.86	21.84
		37	37	21.71	21.69
		75	0	21.97	20.81
	2535.0	1	0	22.87	21.94
		1	38	22.93	21.97
		1	74	22.82	21.87
		37	0	21.94	21.93
		37	18	21.95	21.94
		37	37	21.88	21.88
		75	0	21.97	20.91
	2562.5	1	0	22.94	22.01
		1	38	23.05	22.05



20		1	74	22.84	21.84
		37	0	22.05	22.04
		37	18	22.04	22.03
		37	37	21.91	21.86
		75	0	22.16	20.97
	2510.0	1	0	22.88	21.81
		1	49	23.05	21.95
		1	99	22.62	21.58
		50	0	21.85	20.83
		50	25	21.84	20.79
		50	50	21.91	20.84
		100	0	21.82	20.78
	2535.0	1	0	22.95	21.95
		1	49	23.15	22.00
		1	99	22.90	21.83
		50	0	22.04	20.95
		50	25	22.01	20.94
		50	50	21.92	20.90
		100	0	21.96	20.94
	2560	1	0	23.22	22.13
		1	49	23.22	22.07
		1	99	22.88	21.81
		50	0	22.10	21.09
		50	25	22.08	21.13
		50	50	22.06	21.04
		100	0	22.07	21.11



LTE Band 12

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	699.7	1	0	23.20	22.13
		1	2	23.41	22.36
		1	5	23.31	22.23
		3	0	23.44	22.21
		3	1	23.39	22.22
		3	3	23.41	22.24
		6	0	22.30	21.35
	707.5	1	0	23.38	22.23
		1	2	23.51	22.36
		1	5	23.36	22.23
		3	0	23.51	22.35
		3	1	23.49	22.35
		3	3	23.54	22.33
		6	0	22.36	21.24
	715.3	1	0	22.95	21.83
		1	2	23.17	21.96
		1	5	23.02	21.77
		3	0	23.18	21.99
		3	1	23.18	21.98
		3	3	23.17	21.97
		6	0	22.16	21.12
3	700.5	1	0	23.26	22.35
		1	8	23.34	22.38
		1	14	23.27	22.30
		8	0	22.33	21.41
		8	4	22.32	21.36
		8	7	22.37	21.41
		15	0	22.34	21.40
	707.5	1	0	23.43	22.36
		1	8	23.18	22.26
		1	14	23.15	22.20
		8	0	22.27	21.31
		8	4	22.26	21.34
		8	7	22.19	21.24
		15	0	22.21	21.33
	714.3	1	0	23.18	22.18
		1	8	22.99	22.08
		1	14	23.05	22.10
		8	0	22.19	21.19
		8	4	22.17	21.20
		8	7	22.13	21.14
		15	0	22.12	21.19
5	701.5	1	0	23.28	22.34
		1	12	23.38	22.48
		1	24	23.35	22.43
		12	0	22.40	21.50
		12	6	22.41	21.48
		12	13	22.45	21.47
		25	0	22.37	21.43
	707.5	1	0	23.42	22.38
		1	12	23.53	22.46
		1	24	23.26	22.29
		12	0	22.50	21.52
		12	6	22.51	21.52
		12	13	22.41	21.40
		25	0	22.45	21.53
	713.5	1	0	23.18	22.31
		1	12	23.22	22.36



		1	24	23.02	22.10
		12	0	22.21	21.35
		12	6	22.28	21.34
		12	13	22.12	21.28
		25	0	22.23	21.21
10	704	1	0	23.27	22.36
		1	24	23.37	22.47
		1	49	23.15	22.16
		25	0	22.43	21.51
		25	12	22.44	21.48
		25	25	22.41	21.38
		50	0	22.43	21.49
	707.5	1	0	23.42	22.25
		1	24	23.40	22.25
		1	49	23.19	21.98
		25	0	22.46	21.52
		25	12	22.48	21.53
		25	25	22.45	21.50
		50	0	22.43	21.53
	711	1	0	23.30	22.09
		1	24	23.23	22.03
		1	49	23.07	21.93
		25	0	22.21	21.28
		25	12	22.17	21.23
		25	25	22.18	21.25
		50	0	22.17	21.24



LTE Band17

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	706.5	1	0	23.49	22.47
		1	12	23.55	22.54
		1	24	23.34	22.36
		12	0	22.63	21.61
		12	6	22.65	21.64
		12	13	22.58	21.53
		25	0	22.61	21.65
	710	1	0	23.33	22.49
		1	12	23.38	22.53
		1	24	23.18	22.33
		12	0	22.47	21.52
		12	6	22.48	21.52
		12	13	22.43	21.46
		25	0	22.50	21.50
	713.5	1	0	23.22	22.19
		1	12	23.24	22.27
		1	24	23.16	22.01
		12	0	22.32	21.34
		12	6	22.24	21.30
		12	13	22.18	21.23
		25	0	22.24	21.41
10	709	1	0	23.29	22.42
		1	24	23.32	22.38
		1	49	23.11	22.17
		25	0	22.40	21.40
		25	12	22.39	21.38
		25	25	22.39	21.38
		50	0	22.43	21.42
	710	1	0	23.40	22.32
		1	24	23.55	22.31
		1	49	23.26	22.05
		25	0	22.41	21.47
		25	12	22.38	21.46
		25	25	22.37	21.41
		50	0	22.33	21.48
	711	1	0	23.35	22.14
		1	24	23.30	22.27
		1	49	23.16	21.97
		25	0	22.30	21.34
		25	12	22.31	21.34
		25	25	22.26	21.33
		50	0	22.28	21.29



LTE Band25

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1850.7	1	0	22.89	22.08
		1	3	23.14	22.17
		1	5	23.27	22.16
		3	0	23.30	21.96
		3	2	23.15	22.02
		3	3	23.12	22.02
		6	0	22.28	21.33
	1882.5	1	0	23.06	22.03
		1	3	23.05	22.55
		1	5	23.07	22.25
		3	0	23.35	22.05
		3	2	23.33	22.02
		3	3	23.21	22.12
		6	0	22.30	21.37
	1914.3	1	0	19.41	18.30
		1	3	19.20	19.64
		1	5	20.12	19.13
		3	0	20.31	19.15
		3	2	20.12	18.96
		3	3	19.63	18.59
		6	0	19.72	18.83
3	1851.5	1	0	22.75	21.83
		1	7	22.81	21.67
		1	14	22.91	21.63
		8	0	21.79	20.84
		8	4	21.78	20.91
		8	7	21.85	20.91
		15	0	21.76	20.76
	1882.5	1	0	22.84	21.83
		1	7	22.85	21.81
		1	14	22.82	21.86
		8	0	21.87	20.95
		8	4	21.86	20.91
		8	7	21.89	20.94
		15	0	21.87	20.82
	1913.5	1	0	22.90	21.62
		1	7	23.01	21.73
		1	14	22.84	21.51
		8	0	21.92	20.80
		8	4	21.94	20.76
		8	7	21.78	20.75
		15	0	21.71	20.61
5	1852.5	1	0	22.82	21.74
		1	12	22.94	21.84
		1	24	22.84	21.68
		12	0	21.82	20.81
		12	6	21.76	20.82
		12	13	21.78	20.82
		25	0	21.82	20.85
	1882.5	1	0	22.81	21.70
		1	12	22.94	21.86
		1	24	22.83	21.72
		12	0	21.83	20.80
		12	6	21.80	20.84
		12	13	21.82	20.90
		25	0	21.90	20.93
	1912.5	1	0	22.76	21.74



		1	12	23.03	21.81
		1	24	22.84	21.69
		12	0	21.89	20.88
		12	6	21.93	20.94
		12	13	21.76	20.74
		25	0	21.85	20.81
10	1855.0	1	0	22.44	21.53
		1	24	22.80	21.78
		1	49	22.73	21.75
		25	0	21.83	20.66
		25	12	21.68	20.64
		25	25	21.53	20.59
		50	0	21.35	20.51
	1882.5	1	0	22.71	21.86
		1	24	22.96	22.00
		1	49	22.86	21.84
		25	0	21.95	21.00
		25	12	21.96	21.00
		25	25	21.98	20.99
		50	0	21.96	21.04
	1910.0	1	0	23.00	21.82
		1	24	23.21	21.85
		1	49	23.06	21.66
		25	0	21.98	20.97
		25	12	21.99	20.96
		25	25	21.74	20.72
		50	0	21.84	20.77
15	1857.5	1	0	22.77	21.77
		1	37	22.88	21.91
		1	74	22.82	21.84
		37	0	21.81	21.79
		37	18	21.90	21.88
		37	38	21.83	21.98
		75	0	22.03	20.98
	1882.5	1	0	22.86	21.95
		1	37	22.88	21.91
		1	74	22.86	21.89
		37	0	21.84	21.84
		37	18	21.91	22.03
		37	38	21.92	21.86
		75	0	21.95	20.94
	1907.5	1	0	22.79	21.85
		1	37	22.89	21.88
		1	74	22.78	21.61
		37	0	21.82	21.83
		37	18	21.85	21.87
		37	38	21.67	21.64
		75	0	21.91	20.80
20	1860.0	1	0	22.74	21.69
		1	49	23.09	21.89
		1	99	22.84	21.94
		50	0	21.99	21.03
		50	25	22.00	21.04
		50	50	21.87	20.95
		100	0	21.93	20.98
	1882.5	1	0	22.78	21.94
		1	49	23.07	21.89
		1	99	22.85	21.70
		50	0	21.82	20.85
		50	25	21.77	20.82
		50	50	21.74	20.81



		100	0	21.82	20.82
	1905.0	1	0	22.83	21.84
		1	49	22.98	21.89
		1	99	22.83	21.58
		50	0	21.93	20.91
		50	25	21.95	20.87
		50	50	21.81	20.85
		100	0	21.80	20.82



LTE Band26

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	814.7	1	0	23.37	22.17
		1	3	23.48	22.38
		1	5	23.38	22.24
		3	0	23.44	22.23
		3	2	23.41	22.25
		3	3	23.49	22.27
		6	0	22.31	21.28
	831.5	1	0	23.34	22.16
		1	3	23.36	22.34
		1	5	23.30	22.17
		3	0	23.37	22.24
		3	2	23.41	22.21
		3	3	23.37	22.23
		6	0	22.31	21.26
	848.3	1	0	23.07	21.97
		1	3	23.19	22.19
		1	5	22.97	22.01
		3	0	23.16	21.97
		3	2	23.18	21.96
		3	3	23.14	21.90
		6	0	22.14	21.16
3	815.5	1	0	20.00	22.41
		1	7	23.37	22.38
		1	14	23.41	22.43
		8	0	22.33	21.45
		8	4	22.32	21.41
		8	7	22.34	21.46
		15	0	22.32	21.50
	831.5	1	0	23.37	22.36
		1	7	23.31	22.30
		1	14	23.31	22.34
		8	0	22.32	21.41
		8	4	22.30	21.43
		8	7	22.34	21.42
		15	0	22.32	21.47
	847.5	1	0	23.12	22.13
		1	7	23.11	22.18
		1	14	23.08	22.08
		8	0	22.14	21.23
		8	4	22.10	21.24
		8	7	22.06	21.21
		15	0	22.10	21.21
5	816.5	1	0	23.31	22.23
		1	12	23.57	22.45
		1	24	23.34	22.25
		12	0	22.37	21.43
		12	6	22.43	21.43
		12	13	22.37	21.45
		25	0	22.40	21.48
	831.5	1	0	23.27	22.32
		1	12	23.36	22.49
		1	24	23.16	22.30
		12	0	22.36	21.46
		12	6	22.33	21.42
		12	13	22.32	21.40
		25	0	22.33	21.43
	846.5	1	0	23.04	22.01



		1	12	23.14	22.11
		1	24	22.97	21.89
		12	0	22.17	21.30
		12	6	22.22	21.31
		12	13	22.09	21.12
		25	0	22.15	21.32
10	819.0	1	0	23.33	22.35
		1	24	23.51	22.51
		1	49	23.39	22.39
		25	0	22.44	21.51
		25	12	22.47	21.54
		25	25	22.55	21.60
		50	0	22.49	21.56
	831.5	1	0	23.44	22.26
		1	24	23.58	22.34
		1	49	23.23	22.15
		25	0	22.35	21.48
		25	12	22.38	21.50
		25	25	22.27	21.43
		50	0	22.35	21.45
	844.0	1	0	23.30	22.01
		1	24	23.26	22.06
		1	49	23.01	21.87
		25	0	22.33	21.50
		25	12	22.39	21.51
		25	25	22.14	21.26
		50	0	22.24	21.38



LTE Band38

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2572.5	1	0	23.24	22.37
		1	12	23.38	22.50
		1	24	23.18	22.31
		12	0	22.32	21.40
		12	6	22.32	21.38
		12	13	22.36	21.33
		25	0	22.42	21.36
	2595.0	1	0	23.11	21.97
		1	12	23.25	22.23
		1	24	23.08	22.03
		12	0	22.18	21.09
		12	6	22.15	21.13
		12	13	22.16	21.13
		25	0	22.18	21.18
	2617.5	1	0	22.79	21.90
		1	12	22.92	22.03
		1	24	22.72	21.82
		12	0	21.93	20.95
		12	6	21.91	20.95
		12	13	21.88	20.92
		25	0	21.89	20.85
10	2575.0	1	0	23.27	22.35
		1	24	23.56	22.60
		1	49	23.22	22.28
		25	0	22.36	21.36
		25	12	22.39	21.36
		25	25	22.37	21.33
		50	0	22.33	21.34
	2595.0	1	0	23.10	22.18
		1	24	23.42	22.46
		1	49	23.05	22.15
		25	0	22.21	21.19
		25	12	22.20	21.19
		25	25	22.16	21.16
		50	0	22.20	21.21
	2615.0	1	0	22.96	21.82
		1	24	23.21	22.07
		1	49	22.80	21.68
		25	0	21.97	21.03
		25	12	21.98	21.00
		25	25	21.93	20.91
		50	0	21.95	20.96
15	2577.5	1	0	23.23	22.37
		1	37	23.24	22.40
		1	74	23.04	22.28
		37	0	22.37	22.37
		37	18	22.41	22.42
		37	38	22.27	22.14
		75	0	22.26	21.27
	2595.0	1	0	23.07	22.19
		1	37	23.06	22.24
		1	74	22.89	22.07
		37	0	22.22	22.20
		37	18	22.24	22.23
		37	38	22.10	22.11
		75	0	22.12	21.14
	2612.5	1	0	23.06	22.18
		1	37	22.87	22.06



20		1	74	22.64	21.83
		37	0	22.18	22.18
		37	18	22.02	22.03
		37	38	21.86	21.85
		75	0	21.95	20.95
	2580.0	1	0	23.15	22.30
		1	49	23.41	22.19
		1	99	22.93	22.23
		50	0	22.21	21.20
		50	25	22.20	21.22
		50	50	22.04	21.01
		100	0	22.12	21.15
	2595.0	1	0	23.02	21.87
		1	49	23.34	22.54
		1	99	22.98	21.93
		50	0	22.16	21.22
		50	25	22.21	21.20
		50	50	22.18	21.15
		100	0	22.12	21.10
	2610.0	1	0	23.00	22.15
		1	49	23.21	22.34
		1	99	22.67	21.83
		50	0	22.03	21.05
		50	25	22.06	21.07
		50	50	21.84	20.81
		100	0	21.95	20.96



LTE Band41

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2498.5	1	0	22.29	21.43
		1	12	22.39	21.58
		1	24	22.32	21.29
		12	0	21.40	20.57
		12	6	21.41	20.39
		12	13	21.37	20.35
		25	0	21.40	20.39
	2593.0	1	0	22.37	21.13
		1	12	22.50	21.37
		1	24	22.34	21.40
		12	0	21.55	20.47
		12	6	21.55	20.46
		12	13	21.50	20.51
		25	0	21.46	20.51
	2687.5	1	0	23.12	22.07
		1	12	23.08	21.56
		1	24	22.93	21.69
		12	0	22.10	21.10
		12	6	22.07	21.05
		12	13	21.98	21.01
		25	0	22.01	21.08
10	2501.0	1	0	21.96	21.34
		1	24	22.10	21.57
		1	49	22.00	20.85
		25	0	21.27	20.39
		25	12	21.25	20.38
		25	25	21.27	20.31
		50	0	21.23	20.11
	2593.0	1	0	21.99	21.13
		1	24	22.22	21.31
		1	49	22.03	21.08
		25	0	21.29	20.28
		25	12	21.28	20.27
		25	25	21.30	20.31
		50	0	21.33	20.24
	2685.0	1	0	22.74	21.68
		1	24	22.92	21.81
		1	49	22.66	21.63
		25	0	21.94	20.96
		25	12	22.03	20.84
		25	25	21.87	20.95
		50	0	22.01	21.04
15	2503.5	1	0	21.81	20.85
		1	37	22.07	21.53
		1	74	22.29	21.66
		37	0	21.33	21.35
		37	18	21.56	21.49
		37	38	21.65	21.61
		75	0	21.23	20.18
	2593.0	1	0	22.11	21.67
		1	37	22.39	21.70
		1	74	22.24	21.17
		37	0	21.62	21.63
		37	18	21.73	21.70
		37	38	21.12	21.56
		75	0	21.39	20.35
	2682.5	1	0	22.79	22.31
		1	37	23.04	22.33



20		1	74	22.93	22.19
		37	0	22.39	22.31
		37	18	22.38	22.29
		37	38	22.23	21.71
		75	0	22.02	21.00
	2506.0	1	0	21.91	21.30
		1	49	22.34	21.09
		1	99	22.06	20.99
		50	0	21.23	20.35
		50	25	21.22	20.30
		50	50	21.26	20.33
		100	0	21.24	20.28
	2593.0	1	0	22.14	21.54
		1	49	22.51	21.40
		1	99	22.05	21.56
		50	0	21.30	20.51
		50	25	21.28	20.19
		50	50	21.32	20.40
		100	0	21.30	20.35
	2680.0	1	0	22.78	21.71
		1	49	22.84	22.76
		1	99	22.64	21.48
		50	0	21.96	21.07
		50	25	21.94	21.14
		50	50	22.01	21.11
		100	0	22.07	20.96



LTE Band 66

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1710.7	1	0	22.92	21.81
		1	3	23.00	21.98
		1	5	22.86	21.77
		3	0	22.92	21.82
		3	2	22.95	21.83
		3	3	22.92	21.79
		6	0	21.90	20.77
	1755.0	1	0	22.70	21.61
		1	3	22.82	21.79
		1	5	22.68	21.63
		3	0	22.85	21.58
		3	2	22.85	21.59
		3	3	22.84	21.57
		6	0	21.84	20.87
	1779.3	1	0	23.06	21.77
		1	3	23.25	21.88
		1	5	23.02	21.74
		3	0	23.06	21.73
		3	2	23.05	21.70
		3	3	22.59	21.41
		6	0	21.60	20.43
3	1711.5	1	0	22.38	21.41
		1	7	22.45	21.35
		1	14	22.56	21.34
		8	0	21.46	20.47
		8	4	21.46	20.46
		8	7	21.45	20.40
		15	0	21.46	20.35
	1755.0	1	0	22.11	21.01
		1	7	22.18	20.98
		1	14	22.19	20.99
		8	0	21.10	20.22
		8	4	21.12	20.23
		8	7	21.16	20.14
		15	0	21.11	20.09
	1778.5	1	0	22.32	21.26
		1	7	22.41	21.19
		1	14	22.37	21.16
		8	0	21.36	20.43
		8	4	21.41	20.42
		8	7	21.34	20.40
		15	0	21.35	20.29
5	1712.5	1	0	22.36	21.32
		1	12	22.50	21.43
		1	24	22.43	21.37
		12	0	21.39	20.41
		12	6	21.47	20.38
		12	13	21.49	20.42
		25	0	21.45	20.44
	1755.0	1	0	22.09	20.98
		1	12	22.10	21.08
		1	24	22.08	21.06
		12	0	21.18	20.20
		12	6	21.14	20.17
		12	13	21.00	20.01
		25	0	21.07	20.15
	1777.5	1	0	22.18	21.30
		1	12	22.30	21.32



		1	24	22.23	21.32
		12	0	21.29	20.40
		12	6	21.32	20.43
		12	13	21.17	20.23
		25	0	21.23	20.30
10	1715.0	1	0	22.34	21.42
		1	24	22.46	21.41
		1	49	22.39	21.45
		25	0	21.47	20.46
		25	12	21.44	20.44
		25	25	21.57	20.52
		50	0	21.46	20.42
	1755.0	1	0	22.09	21.12
		1	24	22.09	21.21
		1	49	22.06	21.07
		25	0	21.29	20.31
		25	12	21.28	20.30
		25	25	21.04	20.10
		50	0	21.11	20.16
	1775.0	1	0	22.25	21.11
		1	24	22.41	21.16
		1	49	22.29	21.12
		25	0	21.39	20.45
		25	12	21.40	20.49
		25	25	21.15	20.22
		50	0	21.26	20.30
15	1717.5	1	0	22.32	21.48
		1	37	22.38	21.53
		1	74	22.17	21.34
		37	0	21.51	21.48
		37	18	21.61	21.60
		37	38	21.33	21.41
		75	0	21.44	20.46
	1755.0	1	0	22.16	21.19
		1	37	22.09	21.19
		1	74	22.04	21.15
		37	0	21.22	21.27
		37	18	21.25	21.23
		37	38	21.15	21.18
		75	0	21.24	20.26
	1772.5	1	0	22.31	21.39
		1	37	22.33	21.50
		1	74	22.16	21.36
		37	0	21.39	21.38
		37	18	21.53	21.46
		37	38	21.34	21.39
		75	0	21.33	20.35
20	1720.0	1	0	22.25	21.37
		1	49	22.49	21.57
		1	99	22.10	21.27
		50	0	21.36	20.34
		50	25	21.36	20.34
		50	50	21.54	20.54
		100	0	21.46	20.46
	1755.0	1	0	22.10	21.21
		1	49	22.30	21.37
		1	99	22.11	21.03
		50	0	21.41	20.51
		50	25	21.33	20.47
		50	50	21.05	20.10
		100	0	21.23	20.33



	1770.0	1	0	22.30	21.36
		1	49	22.50	21.67
		1	99	22.23	21.35
		50	0	21.19	20.27
		50	25	21.18	20.25
		50	50	21.14	20.20
		100	0	21.18	20.23

<WLAN 2.4GHz Conducted Power>

Mode	Channel	Frequency (MHz)	Data rate (Mbps)	Average Output Power (dBm)
IEEE 802.11b	1	2412	1	14.97
			2	14.91
			5.5	14.86
			11	14.80
	6	2437	1	15.04
			2	14.95
			5.5	14.89
			11	14.81
	11	2462	1	15.06
			2	14.93
			5.5	14.86
			11	14.79
IEEE 802.11g	1	2412	6	13.88
			9	13.83
			12	13.77
			18	13.72
			24	13.65
			36	13.58
			48	13.51
			54	13.44
	6	2437	6	13.98
			9	13.93
			12	13.86
			18	13.81
			24	13.74
			36	13.66
			48	13.60
			54	13.55
	11	2462	6	13.62
			9	13.57
			12	13.52
			18	13.46
			24	13.40
			36	13.34
			48	13.25
			54	13.21
IEEE 802.11n HT20	1	2412	MCS0	12.56
			MCS1	12.49
			MCS2	12.42
			MCS3	14.36
			MCS4	12.30
			MCS5	12.28
			MCS6	12.25
			MCS7	12.16
	6	2437	MCS0	12.54
			MCS1	12.47
			MCS2	12.43
			MCS3	12.35
			MCS4	12.22
			MCS5	12.16



	11	2462	MCS6	12.11
			MCS7	12.05
			MCS0	12.43
			MCS1	12.34
			MCS2	12.28
			MCS3	12.21
			MCS4	12.14
			MCS5	12.08
			MCS6	12.02
			MCS7	11.96
			MCS0	11.70
IEEE 802.11n HT40	3	2422	MCS1	11.66
			MCS2	11.60
			MCS3	11.53
			MCS4	11.41
			MCS5	11.36
			MCS6	11.28
			MCS7	11.17
			MCS0	11.64
	6	2437	MCS1	11.55
			MCS2	11.50
			MCS3	11.46
			MCS4	11.41
			MCS5	11.37
			MCS6	11.30
			MCS7	11.28
	9	2452	MCS0	12.00
			MCS1	11.94
			MCS2	11.88
			MCS3	11.79
			MCS4	11.72
			MCS5	11.64
			MCS6	11.58
			MCS7	11.50

Note:SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

<WLAN 5GHz U-NI-1 Conducted Power

Mode	Channel	Frequency (MHz)	Average Conducted Output Power(dBm)	Worst Case Test Rate Data
IEEE 802.11a	36	5180	11.47	MCS0
	40	5200	11.25	MCS0
	48	5240	11.11	MCS0
IEEE 802.11n HT20	36	5180	11.34	MCS0
	40	5200	11.25	MCS0
	48	5240	10.88	MCS0
IEEE 802.11n HT40	38	5190	11.28	MCS0
	46	5230	11.13	MCS0
IEEE 802.11AC20	36	5180	11.26	MCS0
	40	5200	11.06	MCS0
	48	5240	11.06	MCS0
IEEE 802.11AC40	38	5190	11.26	MCS0
	46	5230	10.95	MCS0
IEEE 802.11AC80	42	5210	11.03	MCS0



<WLAN 5GHz U-NI-3 Conducted Power>

Mode	Channel	Frequency (MHz)	Average Conducted Output Power(dBm)	Worst Case Test Rate Data
IEEE 802.11a	149	5745	10.49	MCS0
	157	5785	11.46	MCS0
	165	5825	12.15	MCS0
IEEE 802.11n HT20	149	5745	10.48	MCS0
	157	5785	11.31	MCS0
	165	5825	11.90	MCS0
IEEE 802.11n HT40	151	5755	10.68	MCS0
	159	5795	11.59	MCS0
IEEE 802.11AC20	149	5745	10.67	MCS0
	157	5785	11.25	MCS0
	165	5825	12.05	MCS0
IEEE 802.11AC40	151	5755	10.60	MCS0
	159	5795	11.52	MCS0
IEEE 802.11AC80	155	5775	11.01	MCS0

<BT Conducted Power>

Mode	channel	Frequency (MHz)	Conducted AVG output power (dBm)
BLE	0	2402	-5.50
	20	2442	-4.27
	39	2480	-5.70
GFSK	0	2402	6.26
	39	2441	7.19
	78	2480	9.22
π/4-DQPSK	0	2402	5.78
	39	2441	6.39
	78	2480	8.43
8DPSK	0	2402	5.89
	39	2441	6.49
	78	2480	8.43

Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

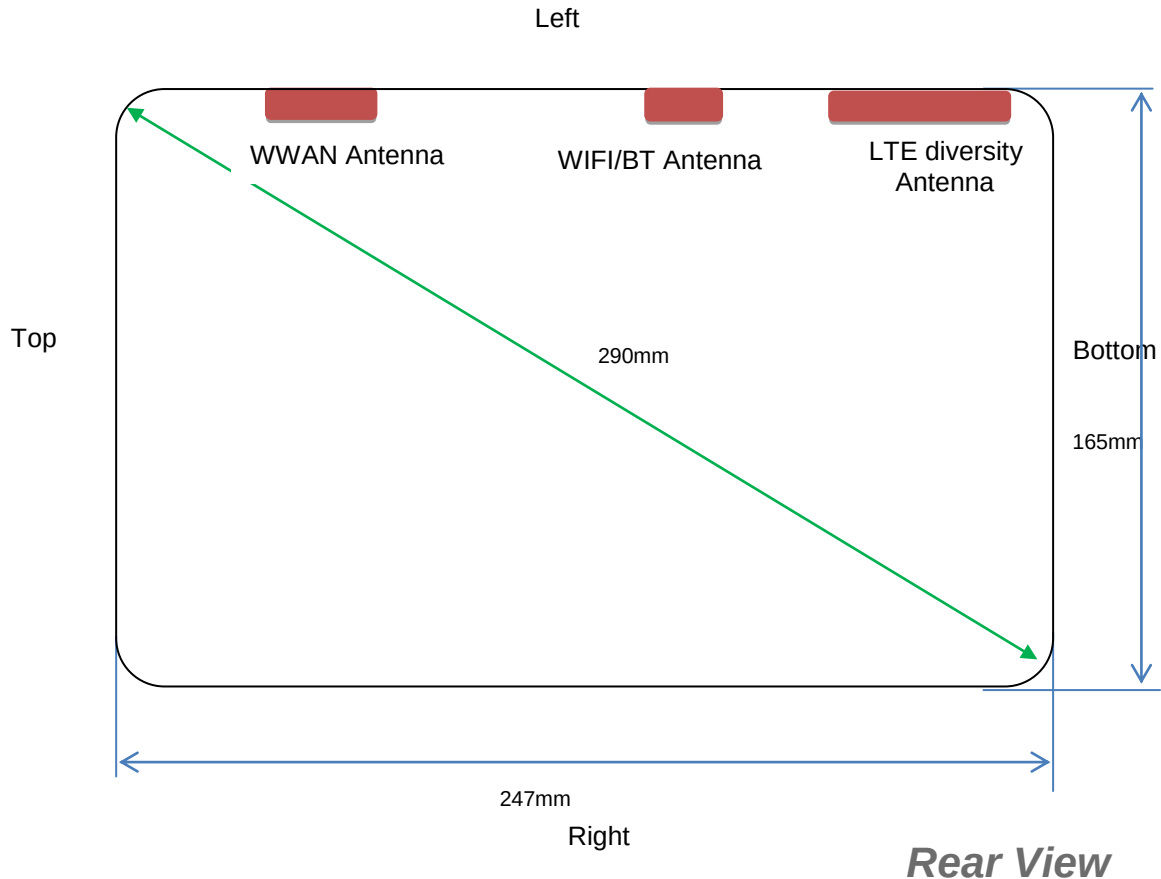
- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Bluetooth Turn up Power (dBm)	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
9.5	5	2.45	2.8

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is $2.8 < 3.0$, SAR testing is not required.



4.2. Transmit Antennas and SAR Measurement Position



Antenna information:

WLAN/BT Antenna	WLAN/BT TX/RX
WWAN Antenna	GSM/UMTS/LTE TX/RX

Note:

- 1). Per KDB648474 D04, because the overall diagonal distance of this devices is 290mm>160mm, it is considered as "Tablet PC" device.
- 2). Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2 W/Kg.
- 3). According to the KDB941225 D06 Hot Spot SAR v02, the edges with less than 25 mm distance to the antennas need to be tested for SAR.
- 4). Per KDB 616217 D04, The antennas in tablets are typically located near the back (bottom) surface and/or along the edges of the devices; therefore, SAR evaluation is required for these configurations. Exposures from antennas through the front (top) surface of the displaysection of a full-size tablet, away from the edges, are generally limited to the user's hands.

Distance of The Antenna to the EUT surface and edge (mm)						
Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WWAN	<5	<5	51	152	<5	158
BT/WLAN	<5	<5	138	86	<5	157

Positions for SAR tests; Hotspot mode						
Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WWAN	Yes	Yes	No	No	Yes	No
BT/WLAN	Yes	Yes	No	No	Yes	No

General Note: Referring to KDB 941225 D06 v02, When the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 0mm, SAR must be measured for all sides and surfaces with a transmitting antenna located with 25mm from that surface or edge.



4.3. SAR Measurement Results

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} * 10^{(P_{\text{target}} - P_{\text{measured}})/10}$$

$$\text{Scaling factor} = 10^{(P_{\text{target}} - P_{\text{measured}})/10}$$

$$\text{Reported SAR} = \text{Measured SAR} * \text{Scaling factor}$$

Where

P_{target} is the power of manufacturing upper limit;

P_{measured} is the measured power;

Measured SAR is measured SAR at measured power which including power drift)

Reported SAR which including Power Drift and Scaling factor

Duty Cycle

Test Mode	Duty Cycle
GSM	4:8
UMTS	1:1
LTE	1:1
WLAN2450	1:1
WLAN5200	1:1
WLAN5800	1:1

4.3.1 SAR Results

SAR Values [GSM 850]

Ch.	Freq. (MHz)	Time slots	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
190	836.6	Voice	Left Cheek	32.72	33.00	-3.70	1.067	0.225	0.240	Plot 1
190	836.6	Voice	Left Tilt	32.72	33.00	0.36	1.067	0.116	0.124	
190	836.6	Voice	Right Cheek	32.72	33.00	3.47	1.067	0.214	0.228	
190	836.6	Voice	Right Tilt	32.72	33.00	0.88	1.067	0.105	0.112	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
190	836.6	4Txslots	Front	28.02	28.50	4.86	1.117	0.257	0.287	
190	836.6	4Txslots	Rear	28.02	28.50	0.37	1.117	0.333	0.372	Plot 2
190	836.6	4Txslots	Left	28.02	28.50	-1.14	1.117	0.243	0.271	

Remark:

1. The value with black color is the maximum SAR Value of each test band.
2. The frame average of GPRS (4Tx slots) higher than GSM and sample can support VoIP function, tested at GPRS (4Tx slots) mode for head.
3. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).

SAR Values [GSM 1900]

Ch.	Freq. (MHz)	time slots	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
661	1880.0	Voice	Left Cheek	29.73	30.00	-1.98	1.064	0.172	0.183	Plot 3
661	1880.0	Voice	Left Tilt	29.73	30.00	-2.65	1.064	0.098	0.104	
661	1880.0	Voice	Right Cheek	29.73	30.00	-4.74	1.064	0.163	0.173	
661	1880.0	Voice	Right Tilt	29.73	30.00	0.98	1.064	0.089	0.095	
measured / reported SAR numbers – Body (hotspot open, distance 0mm)										
661	1880.0	4Txslots	Front	25.01	25.50	-0.46	1.119	0.170	0.190	
661	1880.0	4Txslots	Rear	25.01	25.50	2.24	1.119	0.275	0.308	Plot 4
661	1880.0	4Txslots	Left	25.01	25.50	-2.90	1.119	0.158	0.177	

Remark:

1. The value with black color is the maximum SAR Value of each test band.



2. The frame average of GPRS (4Tx slots) higher than GSM and sample can support VoIP function, tested at GPRS (4Tx slots) mode for head.
3. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).

SAR Values [WCDMA Band V]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
4183	836.6	RMC*	Left Cheek	22.85	23.00	-1.37	1.035	0.099	0.102	Plot 5
4183	836.6	RMC*	Left Tilt	22.85	23.00	3.36	1.035	0.048	0.050	
4183	836.6	RMC*	Right Cheek	22.85	23.00	2.54	1.035	0.087	0.090	
4183	836.6	RMC*	Right Tilt	22.85	23.00	-3.08	1.035	0.040	0.041	
measured / reported SAR numbers – Body (hotspot open, distance 0mm)										
4183	836.6	RMC*	Front	22.77	23.00	-0.56	1.054	0.101	0.106	Plot 6
4183	836.6	RMC*	Rear	22.77	23.00	0.53	1.054	0.215	0.227	
4183	836.6	RMC*	Left	22.77	23.00	-3.47	1.054	0.092	0.097	

Remark:

1. The value with black color is the maximum SAR Value of each test band.
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
3. RMC* - RMC 12.2kbps mode;

SAR Values [WCDMA Band IV]

Ch.	Freq. (MHz)	Chan nel Type	Test Position	Condu cted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
1413	1732.6	RMC	Left Cheek	23.22	23.50	-0.43	1.067	0.237	0.253	Plot 7
1413	1732.6	RMC	Left Tilt	23.22	23.50	3.47	1.067	0.122	0.130	
1413	1732.6	RMC	Right Cheek	23.22	23.50	-2.20	1.067	0.226	0.241	
1413	1732.6	RMC	Right Tilt	23.22	23.50	3.96	1.067	0.118	0.126	
measured / reported SAR numbers – Body (hotspot open, distance 0mm)										
1413	1732.6	RMC	Front	22.71	23.00	-0.48	1.069	0.165	0.176	
1413	1732.6	RMC	Rear	22.71	23.00	-2.82	1.069	0.266	0.284	Plot 8
1413	1732.6	RMC	Left	22.71	23.00	3.02	1.069	0.148	0.158	

Remark:

1. The value with block color is the maximum SAR Value of each test band.
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
3. RMC* - RMC 12.2kbps mode;

SAR Values [WCDMA Band II]

Ch.	Freq. (MHz)	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reporte d	
measured / reported SAR numbers – Head										
9262	1852.4	RMC*	Left Cheek	23.42	23.50	-2.30	1.019	0.449	0.457	Plot 9
9262	1852.4	RMC*	Left Tilt	23.42	23.50	3.64	1.019	0.235	0.239	
9262	1852.4	RMC*	Right Cheek	23.42	23.50	-2.08	1.019	0.430	0.438	
9262	1852.4	RMC*	Right Tilt	23.42	23.50	-4.77	1.019	0.216	0.220	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
9400	1880.0	RMC*	Front	22.72	23.00	-0.78	1.067	0.354	0.378	
9400	1880.0	RMC*	Rear	22.72	23.00	-1.59	1.067	0.505	0.539	Plot 10
9400	1880.0	RMC*	Left	22.72	23.00	3.74	1.067	0.324	0.346	



Remark:

1. The value with black color is the maximum SAR Value of each test band.
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
3. RMC* - RMC 12.2kbps mode;

SAR Values [LTE Band 2]

Ch.	Freq. (MHz)	Channel Type (10M)	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
19100	1900.0	1RB	Left Cheek	23.49	23.50	-0.76	1.002	0.412	0.413	Plot 11
19100	1900.0	1RB	Left Tilt	23.49	23.50	3.45	1.002	0.211	0.211	
19100	1900.0	1RB	Right Cheek	23.49	23.50	-2.54	1.002	0.402	0.403	
19100	1900.0	1RB	Right Tilt	23.49	23.50	-3.44	1.002	0.206	0.206	
19100	1900.0	50%RB	Left Cheek	22.46	22.50	-2.54	1.009	0.208	0.210	
19100	1900.0	50%RB	Left Tilt	22.46	22.50	0.17	1.009	0.105	0.106	
19100	1900.0	50%RB	Right Cheek	22.46	22.50	-0.77	1.009	0.200	0.202	
19100	1900.0	50%RB	Right Tilt	22.46	22.50	3.41	1.009	0.101	0.102	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
19100	1900.0	1RB	Front	23.49	23.50	-1.65	1.002	0.333	0.334	
19100	1900.0	1RB	Rear	23.49	23.50	-0.07	1.002	0.450	0.451	Plot 12
19100	1900.0	1RB	Left	23.49	23.50	3.09	1.002	0.320	0.321	
19100	1900.0	50%RB	Front	22.46	22.50	-4.70	1.009	0.169	0.171	
19100	1900.0	50%RB	Rear	22.46	22.50	3.47	1.009	0.228	0.230	
19100	1900.0	50%RB	Left	22.46	22.50	0.58	1.009	0.147	0.148	

SAR Values [LTE Band 4]

Ch.	Freq. (MHz)	Channel Type (10M)	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
20175	1732.5	1RB	Left Cheek	23.29	23.50	-0.63	1.050	0.274	0.288	Plot 13
20175	1732.5	1RB	Left Tilt	23.29	23.50	3.65	1.050	0.189	0.198	
20175	1732.5	1RB	Right Cheek	23.29	23.50	-4.50	1.050	0.265	0.278	
20175	1732.5	1RB	Right Tilt	23.29	23.50	-0.01	1.050	0.176	0.185	
20300	1745.0	50%RB	Left Cheek	22.25	22.50	2.47	1.059	0.186	0.197	
20300	1745.0	50%RB	Left Tilt	22.25	22.50	2.84	1.059	0.099	0.105	
20300	1745.0	50%RB	Right Cheek	22.25	22.50	-3.41	1.059	0.174	0.184	
20300	1745.0	50%RB	Right Tilt	22.25	22.50	0.85	1.059	0.086	0.091	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
20175	1732.5	1RB	Front	23.29	23.50	-0.05	1.050	0.247	0.259	
20175	1732.5	1RB	Rear	23.29	23.50	-0.41	1.050	0.535	0.562	Plot 14
20175	1732.5	1RB	Left	23.29	23.50	3.45	1.050	0.238	0.250	
20300	1745.0	50%RB	Front	22.25	22.50	-2.12	1.059	0.174	0.184	
20300	1745.0	50%RB	Rear	22.25	22.50	0.77	1.059	0.268	0.284	
20300	1745.0	50%RB	Left	22.25	22.50	-3.84	1.059	0.165	0.175	

SAR Values [LTE Band 5]

Ch.	Freq. (MHz)	Channel Type (10M)	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
20407	829.0	1RB	Left Cheek	23.22	23.50	0.96	1.067	0.165	0.176	Plot 15
20407	829.0	1RB	Left Tilt	23.22	23.50	-3.12	1.067	0.089	0.095	
20407	829.0	1RB	Right Cheek	23.22	23.50	0.54	1.067	0.154	0.164	
20407	829.0	1RB	Right Tilt	23.22	23.50	-3.64	1.067	0.080	0.085	
20407	829.0	50%RB	Left Cheek	22.23	22.50	4.78	1.064	0.086	0.092	



20407	829.0	50%RB	Left Tilt	22.23	22.50	0.98	1.064	0.046	0.049	
20407	829.0	50%RB	Right Cheek	22.23	22.50	-3.20	1.064	0.075	0.080	
20407	829.0	50%RB	Right Tilt	22.23	22.50	3.47	1.064	0.039	0.042	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
20407	829.0	1RB	Front	23.22	23.50	1.12	1.067	0.111	0.118	
20407	829.0	1RB	Rear	23.22	23.50	-0.18	1.067	0.201	0.214	Plot 16
20407	829.0	1RB	Left	23.22	23.50	3.47	1.067	0.089	0.095	
20407	829.0	50%RB	Front	22.23	22.50	3.30	1.064	0.056	0.060	
20407	829.0	50%RB	Rear	22.23	22.50	-4.78	1.064	0.103	0.110	
20407	829.0	50%RB	Left	22.23	22.50	2.20	1.064	0.047	0.050	

SAR Values [LTE Band 7]

Ch.	Freq. (MHz)	Channe / Type (20M)	Test Position	Condu cted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reporte d	
measured / reported SAR numbers – Head										
21350	2560.0	1RB	Left Cheek	23.22	23.50	-0.54	1.067	0.530	0.565	Plot 17
21350	2560.0	1RB	Left Tilt	23.22	23.50	3.47	1.067	0.264	0.282	
21350	2560.0	1RB	Right Cheek	23.22	23.50	-2.90	1.067	0.523	0.558	
21350	2560.0	1RB	Right Tilt	23.22	23.50	-1.74	1.067	0.259	0.276	
21350	2560.0	50%RB	Left Cheek	22.10	22.50	2.95	1.096	0.260	0.285	
21350	2560.0	50%RB	Left Tilt	22.10	22.50	0.64	1.096	0.183	0.201	
21350	2560.0	50%RB	Right Cheek	22.10	22.50	2.98	1.096	0.254	0.279	
21350	2560.0	50%RB	Right Tilt	22.10	22.50	0.33	1.096	0.177	0.194	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
21350	2560.0	1RB	Front	23.22	23.50	-0.62	1.067	0.244	0.260	
21350	2560.0	1RB	Rear	23.22	23.50	0.25	1.067	0.431	0.460	Plot 18
21350	2560.0	1RB	Left	23.22	23.50	-4.44	1.067	0.231	0.246	
21350	2560.0	50%RB	Front	22.10	22.50	-2.78	1.096	0.135	0.148	
21350	2560.0	50%RB	Rear	22.10	22.50	-3.80	1.096	0.223	0.245	
21350	2560.0	50%RB	Left	22.10	22.50	2.98	1.096	0.126	0.138	

SAR Values [LTE Band 12]

Ch.	Freq. (MHz)	Channe l Type (20M)	Test Position	Condu cted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reporte d	
measured / reported SAR numbers – Head										
23095	707.5	1RB	Left Cheek	23.42	23.50	-1.38	1.019	0.161	0.164	Plot 19
23095	707.5	1RB	Left Tilt	23.42	23.50	1.10	1.019	0.086	0.088	
23095	707.5	1RB	Right Cheek	23.42	23.50	-0.58	1.019	0.156	0.159	
23095	707.5	1RB	Right Tilt	23.42	23.50	3.74	1.019	0.080	0.081	
23095	707.5	50%RB	Left Cheek	22.48	22.50	0.92	1.005	0.082	0.082	
23095	707.5	50%RB	Left Tilt	22.48	22.50	0.66	1.005	0.047	0.047	
23095	707.5	50%RB	Right Cheek	22.48	22.50	-4.30	1.005	0.076	0.076	
23095	707.5	50%RB	Right Tilt	22.48	22.50	0.60	1.005	0.041	0.041	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
23095	707.5	1RB	Front	23.42	23.50	0.08	1.019	0.044	0.045	
23095	707.5	1RB	Rear	23.42	23.50	-2.11	1.019	0.069	0.070	Plot 20
23095	707.5	1RB	Left	23.42	23.50	3.41	1.019	0.036	0.037	
23095	707.5	50%RB	Front	22.48	22.50	-2.50	1.005	0.024	0.024	
23095	707.5	50%RB	Rear	22.48	22.50	3.64	1.005	0.035	0.035	
23095	707.5	50%RB	Left	22.48	22.50	-2.20	1.005	0.020	0.020	

**SAR Values [LTE Band 17]**

Ch.	Freq. (MHz)	Channe l Type (20M)	Test Position	Condu cted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reporte d	
measured / reported SAR numbers – Head										
23790	710.0	1RB	Left Cheek	23.55	24.00	-2.34	1.109	0.072	0.080	Plot 21
23790	710.0	1RB	Left Tilt	23.55	24.00	3.47	1.109	0.039	0.043	
23790	710.0	1RB	Right Cheek	23.55	24.00	-0.55	1.109	0.064	0.071	
23790	710.0	1RB	Right Tilt	23.55	24.00	-3.12	1.109	0.031	0.034	
23790	710.0	50%RB	Left Cheek	22.41	22.50	-4.51	1.021	0.036	0.037	
23790	710.0	50%RB	Left Tilt	22.41	22.50	2.87	1.021	0.018	0.018	
23790	710.0	50%RB	Right Cheek	22.41	22.50	3.74	1.021	0.031	0.032	
23790	710.0	50%RB	Right Tilt	22.41	22.50	3.78	1.021	0.011	0.011	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
23790	710.0	1RB	Front	23.55	24.00	0.96	1.109	0.047	0.052	
23790	710.0	1RB	Rear	23.55	24.00	1.53	1.109	0.061	0.068	Plot 22
23790	710.0	1RB	Left	23.55	24.00	3.01	1.109	0.039	0.043	
23790	710.0	50%RB	Front	22.41	22.50	-4.50	1.021	0.029	0.030	
23790	710.0	50%RB	Rear	22.41	22.50	2.98	1.021	0.036	0.037	
23790	710.0	50%RB	Left	22.41	22.50	-1.11	1.021	0.022	0.022	

SAR Values [LTE Band 25]

Ch.	Freq. (MHz)	Channel Type (20M)	Test Position	Conduc ted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
26047	1860.0	1RB	Left Cheek	23.09	23.50	-1.44	1.099	0.376	0.413	Plot 23
26047	1860.0	1RB	Left Tilt	23.09	23.50	2.14	1.099	0.189	0.208	
26047	1860.0	1RB	Right Cheek	23.09	23.50	-3.47	1.099	0.361	0.397	
26047	1860.0	1RB	Right Tilt	23.09	23.50	-3.30	1.099	0.177	0.195	
26047	1860.0	50%RB	Left Cheek	22.00	22.00	2.54	1.000	0.185	0.185	
26047	1860.0	50%RB	Left Tilt	22.00	22.00	0.09	1.000	0.101	0.101	
26047	1860.0	50%RB	Right Cheek	22.00	22.00	-2.22	1.000	0.174	0.174	
26047	1860.0	50%RB	Right Tilt	22.00	22.00	-3.47	1.000	0.096	0.096	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
26047	1860.0	1RB	Front	23.09	23.50	-0.44	1.099	0.103	0.113	
26047	1860.0	1RB	Rear	23.09	23.50	-1.46	1.099	0.181	0.199	Plot 24
26047	1860.0	1RB	Left	23.09	23.50	1.04	1.099	0.095	0.104	
26047	1860.0	50%RB	Front	22.00	22.00	3.45	1.000	0.058	0.058	
26047	1860.0	50%RB	Rear	22.00	22.00	0.85	1.000	0.099	0.099	
26047	1860.0	50%RB	Left	22.00	22.00	-3.64	1.000	0.050	0.050	

SAR Values [LTE Band 26]

Ch.	Freq. (MHz)	Channel Type (20M)	Test Position	Conduc ted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
26865	831.5	1RB	Left Cheek	23.58	24.00	-2.92	1.102	0.286	0.315	Plot 25
26865	831.5	1RB	Left Tilt	23.58	24.00	2.45	1.102	0.152	0.167	
26865	831.5	1RB	Right Cheek	23.58	24.00	-3.04	1.102	0.275	0.303	
26865	831.5	1RB	Right Tilt	23.58	24.00	2.85	1.102	0.146	0.161	
26697	819.0	50%RB	Left Cheek	22.55	23.00	1.47	1.109	0.148	0.164	
26697	819.0	50%RB	Left Tilt	22.55	23.00	2.85	1.109	0.081	0.090	
26697	819.0	50%RB	Right Cheek	22.55	23.00	-3.74	1.109	0.134	0.149	
26697	819.0	50%RB	Right Tilt	22.55	23.00	0.88	1.109	0.139	0.154	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
26865	831.5	1RB	Front	23.58	24.00	-0.07	1.102	0.369	0.406	
26865	831.5	1RB	Rear	23.58	24.00	-0.82	1.102	0.433	0.477	Plot 26
26865	831.5	1RB	Left	23.58	24.00	2.74	1.102	0.358	0.394	
26697	819.0	50%RB	Front	22.55	23.00	-2.02	1.109	0.186	0.206	



26697	819.0	50%RB	Rear	22.55	23.00	3.96	1.109	0.226	0.251	
26697	819.0	50%RB	Left	22.55	23.00	-4.70	1.109	0.178	0.197	

SAR Values [LTE Band 38]

Ch.	Freq. (MHz)	Channe l Type (20M)	Test Position	Condu cted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reporte d	
measured / reported SAR numbers – Head										
37850	2580.0	1RB	Left Cheek	23.41	23.50	-3.44	1.021	0.285	0.291	Plot 27
37850	2580.0	1RB	Left Tilt	23.41	23.50	1.45	1.021	0.148	0.151	
37850	2580.0	1RB	Right Cheek	23.41	23.50	-3.54	1.021	0.277	0.283	
37850	2580.0	1RB	Right Tilt	23.41	23.50	2.47	1.021	0.141	0.144	
37850	2580.0	50%RB	Left Cheek	22.21	22.50	-3.33	1.069	0.142	0.152	
37850	2580.0	50%RB	Left Tilt	22.21	22.50	0.87	1.069	0.079	0.084	
37850	2580.0	50%RB	Right Cheek	22.21	22.50	-1.11	1.069	0.135	0.144	
37850	2580.0	50%RB	Right Tilt	22.21	22.50	0.87	1.069	0.070	0.075	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
37850	2580.0	1RB	Front	23.41	23.50	-1.05	1.021	0.273	0.279	
37850	2580.0	1RB	Rear	23.41	23.50	0.53	1.021	0.508	0.519	Plot 28
37850	2580.0	1RB	Left	23.41	23.50	3.47	1.021	0.265	0.271	
38150	2610.0	50%RB	Front	22.21	22.50	2.45	1.069	0.144	0.154	
38150	2610.0	50%RB	Rear	22.21	22.50	-3.33	1.069	0.234	0.250	
38150	2610.0	50%RB	Left	22.21	22.50	0.78	1.069	0.125	0.134	

SAR Values [LTE Band 41]

Ch.	Freq. (MHz)	Channel Type (10M)	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
41490	2680.0	1RB	Left Cheek	22.84	23.00	4.21	1.038	0.299	0.310	Plot 29
41490	2680.0	1RB	Left Tilt	22.84	23.00	3.45	1.038	0.195	0.202	
41490	2680.0	1RB	Right Cheek	22.84	23.00	1.74	1.038	0.284	0.295	
41490	2680.0	1RB	Right Tilt	22.84	23.00	3.85	1.038	0.184	0.191	
41490	2680.0	50%RB	Left Cheek	22.01	22.50	-0.91	1.119	0.187	0.209	
41490	2680.0	50%RB	Left Tilt	22.01	22.50	4.54	1.119	0.101	0.113	
41490	2680.0	50%RB	Right Cheek	22.01	22.50	3.78	1.119	0.175	0.196	
41490	2680.0	50%RB	Right Tilt	22.01	22.50	0.55	1.119	0.092	0.103	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
41490	2680.0	1RB	Front	22.84	23.00	0.59	1.038	0.286	0.297	
41490	2680.0	1RB	Rear	22.84	23.00	-0.19	1.038	0.694	0.720	Plot 30
41490	2680.0	1RB	Left	22.84	23.00	2.85	1.038	0.261	0.271	
41490	2680.0	50%RB	Front	22.01	22.50	4.77	1.119	0.145	0.162	
41490	2680.0	50%RB	Rear	22.01	22.50	0.18	1.119	0.339	0.379	
41490	2680.0	50%RB	Left	22.01	22.50	-2.22	1.119	0.132	0.148	

SAR Values [LTE Band 66]

Ch.	Freq. (MHz)	Chann el Type (20M)	Test Position	Cond ucted Powe r (dBm)	Maximu m Allowed Power (dBm)	Powe r Drift (%)	Scaling Factor	SAR1-g results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers - Head										
132572	1770.0	1RB	Left Cheek	22.50	22.50	-1.75	1.000	0.153	0.153	Plot 31
132572	1770.0	1RB	Left Tilt	22.50	22.50	2.54	1.000	0.078	0.078	
132572	1770.0	1RB	Right Cheek	22.50	22.50	3.47	1.000	0.144	0.144	
132572	1770.0	1RB	Right Tilt	22.50	22.50	0.15	1.000	0.065	0.065	
132072	1720.0	50%RB	Left Cheek	21.54	22.00	-2.20	1.112	0.072	0.080	
132072	1720.0	50%RB	Left Tilt	21.54	22.00	-0.58	1.112	0.042	0.047	
132072	1720.0	50%RB	Right Cheek	21.54	22.00	-0.94	1.112	0.064	0.071	
132072	1720.0	50%RB	Right Tilt	21.54	22.00	1.99	1.112	0.036	0.040	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										



132572	1770.0	1RB	Front	22.50	22.50	-0.39	1.000	0.169	0.169	
132572	1770.0	1RB	Rear	22.50	22.50	-0.79	1.000	0.213	0.213	Plot 32
132572	1770.0	1RB	Left	22.50	22.50	1.47	1.000	0.158	0.158	
132072	1720.0	50%RB	Front	21.54	22.00	-2.50	1.112	0.089	0.099	
132072	1720.0	50%RB	Rear	21.54	22.00	3.74	1.112	0.124	0.138	
132072	1720.0	50%RB	Left	21.54	22.00	-2.10	1.112	0.076	0.084	

SAR Values [WIFI2.4G]

Ch.	Freq. (MHz)	Service	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
11	2462.0	802.11b	Left Cheek	15.06	15.50	0.45	1.107	0.113	0.125	Plot 33
11	2462.0	802.11b	Left Tilt	15.06	15.50	1.74	1.107	0.056	0.062	
11	2462.0	802.11b	Right Cheek	15.06	15.50	3.54	1.107	0.102	0.113	
11	2462.0	802.11b	Right Tilt	15.06	15.50	0.87	1.107	0.047	0.052	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
11	2462.0	802.11b	Front	15.06	15.50	0.95	1.107	0.172	0.190	
11	2462.0	802.11b	Rear	15.06	15.50	-0.52	1.107	0.258	0.286	Plot 34
11	2462.0	802.11b	Left	15.06	15.50	1.11	1.107	0.154	0.170	

SAR Values [WIFI5.2G]

Ch.	Freq. (MHz)	Service	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
36	5180	802.11a	Left Cheek	11.47	11.50	-0.73	1.007	0.115	0.116	Plot 35
36	5180	802.11a	Left Tilt	11.47	11.50	-2.54	1.007	0.058	0.058	
36	5180	802.11a	Right Cheek	11.47	11.50	-0.99	1.007	0.102	0.103	
36	5180	802.11a	Right Tilt	11.47	11.50	1.61	1.007	0.051	0.051	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
36	5180	802.11a	Front	11.47	11.50	-0.06	1.007	0.190	0.191	
36	5180	802.11a	Rear	11.47	11.50	0.02	1.007	0.222	0.224	Plot 36
36	5180	802.11a	Left	11.47	11.50	3.74	1.007	0.180	0.181	

SAR Values [WIFI5.8G]

Ch.	Freq. (MHz)	Service	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR _{1-g} results(W/kg)		Graph Results
								Measured	Reported	
measured / reported SAR numbers – Head										
165	5825.0	802.11a	Left Cheek	12.15	12.50	0.64	1.084	0.038	0.041	Plot 37
165	5825.0	802.11a	Left Tilt	12.15	12.50	2.54	1.084	0.019	0.021	
165	5825.0	802.11a	Right Cheek	12.15	12.50	-1.78	1.084	0.033	0.036	
165	5825.0	802.11a	Right Tilt	12.15	12.50	1.45	1.084	0.014	0.015	
measured / reported SAR numbers - Body (hotspot open, distance 0mm)										
165	5825.0	802.11a	Front	12.15	12.50	-2.38	1.084	0.064	0.069	
165	5825.0	802.11a	Rear	12.15	12.50	0.32	1.084	0.132	0.143	Plot 38
165	5825.0	802.11a	Left	12.15	12.50	1.10	1.084	0.055	0.060	

Remark:

1. The value with blue color is the maximum SAR Value of each test band.
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
3. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. 19 If the highest reported SAR for a test configuration is $\leq$



1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

4. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.



4.3.2 Standalone SAR Test Exclusion Considerations and Estimated SAR

Per KDB447498 requires when the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion;

• (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(\text{GHz})}$]/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.

• 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

Per FCC KD B447498 D01, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the transmitting antenna in a specific a physical test configuration is ≤ 1.6 W/Kg. When the sum is greater than the SAR limit, SAR test exclusion is determined by the SAR to peak location separation ratio.

$$\text{Ratio} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{(\text{peak location separation, mm})} < 0.04$$

Estimated stand alone SAR					
Communication system	Frequency (MHz)	Configuration	Maximum Power (dBm)	Separation Distance (mm)	Estimated SAR _{1-g} (W/kg)
Bluetooth*	2450	Head	9.5	5	0.373
Bluetooth*	2450	Hotspot	9.5	10	0.187
Bluetooth*	2450	Body-worn	9.5	10	0.187

Remark:

1. Bluetooth*- Including Lower power Bluetooth
2. Maximum average power including tune-up tolerance;
3. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion
4. Body as body use distance is 0mm from manufacturer declaration of user manual

4.4. Simultaneous TX SAR Considerations

4.4.1 Introduction

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. The device has 4 antennas, WWAN main antenna, WWAN diversity antenna(RX only), and WiFi antenna supports 2.4Wi-Fi. The 2 TX antennas can always transmit simultaneously. The work mode combination is showed as below table.;

Application Simultaneous Transmission information:

Combination No.	Mode
1	WWAN+WIFI
2	WWAN+BT

4.4.2 Evaluation of Simultaneous SAR

Head Exposure Conditions

Simultaneous transmission SAR for WiFi and GSM

Test Position	GSM850 Reported SAR1-g (W/kg)	GSM1900 Reported SAR1-g (W/kg)	WiFi2.4G Reported SAR1-g (W/kg)	WiFi5.2G Reported SAR1-g (W/kg)	WiFi5.8G Reported SAR1-g (W/kg)	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Left Cheek	0.240	0.183	0.125	0.116	0.041	0.365	1.6	no	no
Left Tilt	0.124	0.104	0.062	0.058	0.021	0.186	1.6	no	no
Right Cheek	0.228	0.173	0.113	0.103	0.036	0.341	1.6	no	no
Right Tilt	0.112	0.095	0.052	0.051	0.015	0.164	1.6	no	no

**Simultaneous transmission SAR for WiFi and UMTS**

Test Position	UMTS Band V Reported SAR1-g (W/kg)	UMTS Band IV Reported SAR1-g (W/kg)	UMTS Band II Reported SAR1-g (W/kg)	WiFi2.4G Reported SAR1-g (W/kg)	WiFi5.2G Reported SAR1-g (W/kg)	WiFi5.8G Reported SAR1-g (W/kg)	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Left Cheek	0.102	0.253	0.457	0.125	0.116	0.041	0.582	1.6	no	no
Left Tilt	0.050	0.130	0.239	0.062	0.058	0.021	0.301	1.6	no	no
Right Cheek	0.090	0.241	0.438	0.113	0.103	0.036	0.551	1.6	no	no
Right Tilt	0.041	0.126	0.220	0.052	0.051	0.015	0.272	1.6	no	no

Simultaneous transmission SAR for WiFi and LTE

Reported SAR1-g(W/kg)	Test Position			
	Left Cheek	Left Tilt	Right Cheek	Right Tilt
LTE Band2	0.413	0.211	0.403	0.206
LTE Band4	0.288	0.198	0.278	0.185
LTE Band5	0.176	0.095	0.164	0.085
LTE Band7	0.565	0.282	0.558	0.276
LTE Band12	0.164	0.088	0.159	0.081
LTE Band17	0.080	0.043	0.071	0.034
LTE Band25	0.413	0.208	0.397	0.195
LTE Band26	0.315	0.167	0.303	0.161
LTE Band38	0.291	0.151	0.283	0.144
LTE Band41	0.310	0.202	0.295	0.191
LTE Band66	0.153	0.078	0.144	0.065
WiFi2.4G	0.125	0.062	0.113	0.052
WiFi5.2G	0.116	0.058	0.103	0.051
WiFi5.8G	0.041	0.021	0.036	0.015
MAX. Σ SAR1-g (W/kg)	0.690	0.344	0.671	0.328
SAR1-g Limit (W/kg)	1.6	1.6	1.6	1.6
Peak location separation ratio	no	no	no	no
Simut Meas. Required	no	no	no	no

Simultaneous transmission SAR for BT and GSM

Test Position	GSM850 Reported SAR1-g (W/kg)	GSM1900 Reported SAR1-g (W/kg)	BT Estimated SAR1-g (W/kg)	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Left Cheek	0.240	0.183	0.373	0.613	1.6	no	no
LeftTilt	0.124	0.104	0.373	0.497	1.6	no	no
Right Cheek	0.228	0.173	0.373	0.601	1.6	no	no
Right Tilt	0.112	0.095	0.373	0.485	1.6	no	no

Simultaneous transmission SAR for BT and UMTS

Test Position	UMTS Band V Reported SAR1-g (W/kg)	UMTS Band IV Reported SAR1-g (W/kg)	UMTS Band II Reported SAR1-g (W/kg)	BT Estimated SAR1-g (W/kg)	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Left Cheek	0.102	0.253	0.457	0.373	0.830	1.6	no	no
LeftTilt	0.050	0.130	0.239	0.373	0.612	1.6	no	no
RightChek	0.090	0.241	0.438	0.373	0.811	1.6	no	no
Right Tilt	0.041	0.126	0.220	0.373	0.593	1.6	no	no

**Simultaneous transmission SAR for BT and LTE**

Reported SAR1-g(W/kg)	Test Position			
	Left Cheek	Left Tilt	Right Cheek	Right Tilt
LTE Band2	0.413	0.211	0.403	0.206
LTE Band4	0.288	0.198	0.278	0.185
LTE Band5	0.176	0.095	0.164	0.085
LTE Band7	0.565	0.282	0.558	0.276
LTE Band12	0.164	0.088	0.159	0.081
LTE Band17	0.080	0.043	0.071	0.034
LTE Band25	0.413	0.208	0.397	0.195
LTE Band26	0.315	0.167	0.303	0.161
LTE Band38	0.291	0.151	0.283	0.144
LTE Band41	0.310	0.202	0.295	0.191
LTE Band66	0.153	0.078	0.144	0.065
BT Estimated SAR1-g (W/kg)	0.373	0.373	0.373	0.373
MAX. Σ SAR1-g (W/kg)	0.938	0.655	0.931	0.649
SAR1-g Limit (W/kg)	1.6	1.6	1.6	1.6
Peak location separation ratio	no	no	no	no
Simut Meas. Required	no	no	no	no

Body Hotspot Exposure Conditions**Simultaneous transmission SAR for WiFi and GSM**

Test Position	GSM850 Reported SAR1-g (W/kg)	GSM1900 Reported SAR1-g (W/kg)	WiFi2.4G Reported SAR1-g (W/kg)	WiFi5.2G Reported SAR1-g (W/kg)	WiFi5.8G Reported SAR1-g (W/kg)	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Front	0.287	0.190	0.190	0.191	0.069	0.478	1.6	no	no
Rear	0.372	0.308	0.286	0.224	0.143	0.658	1.6	no	no
Left	0.271	0.177	0.170	0.181	0.060	0.452	1.6	no	no
Right	/	/	/	/	/	/	1.6	no	no
Bottom	/	/	/	/	/	/	1.6	no	no
Top	/	/	/	/	/	/	1.6	no	no

Simultaneous transmission SAR for WiFi and UMTS

Test Position	UMTS Band V Reported SAR1-g (W/kg)	UMTS Band IV Reported SAR1-g (W/kg)	UMTS Band II Reported SAR1-g (W/kg)	WiFi2.4G Reported SAR1-g (W/kg)	WiFi5.2G Reported SAR1-g (W/kg)	WiFi5.8G Reported SAR1-g (W/kg)	MAX. Σ SAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Front	0.106	0.176	0.378	0.190	0.191	0.069	0.569	1.6	no	no
Rear	0.227	0.284	0.539	0.286	0.224	0.143	0.825	1.6	no	no
Left	0.097	0.158	0.346	0.170	0.181	0.060	0.527	1.6	no	no
Right	/	/	/	/	/	/	/	1.6	no	no
Bottom	/	/	/	/	/	/	/	1.6	no	no
Top	/	/	/	/	/	/	/	1.6	no	no



SAR for WiFi and LTE

Reported SAR1-g(W/kg)	Test Position					
	Front	Rear	Left	Right	Bottom	Top
LTE Band2	0.334	0.451	0.321	/	/	/
LTE Band4	0.259	0.562	0.250	/	/	/
LTE Band5	0.118	0.214	0.095	/	/	/
LTE Band7	0.260	0.460	0.246	/	/	/
LTE Band12	0.045	0.070	0.037	/	/	/
LTE Band17	0.052	0.068	0.043	/	/	/
LTE Band25	0.113	0.199	0.104	/	/	/
LTE Band26	0.406	0.477	0.394	/	/	/
LTE Band38	0.279	0.519	0.271	/	/	/
LTE Band41	0.297	0.720	0.271	/	/	/
LTE Band66	0.169	0.213	0.158	/	/	/
WiFi2.4G	0.190	0.286	0.170	/	/	/
WiFi5.2G	0.191	0.224	0.181	/	/	/
WiFi5.8G	0.069	0.143	0.060	/	/	/
MAX. ΣSAR1-g (W/kg)	0.597	1.006	0.575	/	/	/
SAR1-g Limit (W/kg)	1.6	1.6	1.6	1.6	1.6	1.6
Peak location separation ratio	no	no	no	no	no	no
Simut Meas. Required	no	no	no	no	no	no

Simultaneous transmission SAR for BT and GSM

Test Position	GSM850 Reported SAR1-g (W/kg)	GSM1900 Reported SAR1-g (W/kg)	BT Estimated SAR1-g (W/kg)	MAX. ΣSAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Front	0.287	0.190	0.187	0.474	1.6	no	no
Rear	0.372	0.308	0.187	0.559	1.6	no	no
Left	0.271	0.177	0.187	0.458	1.6	no	no
Right	/	/	/	/	1.6	no	no
Bottom	/	/	/	/	1.6	no	no
Top	/	/	/	/	1.6	no	no

Simultaneous transmission SAR for BT and UMTS

Test Position	UMTS Band V Reported SAR1-g (W/kg)	UMTS Band IV Reported SAR1-g (W/kg)	UMTS Band II Reported SAR1-g (W/kg)	BT Estimated SAR1-g (W/kg)	MAX. ΣSAR1-g (W/kg)	SAR1-g Limit (W/kg)	Peak location separation ratio	Simut Meas. Required
Front	0.106	0.176	0.378	0.187	0.565	1.6	no	no
Rear	0.227	0.284	0.539	0.187	0.726	1.6	no	no
Left	0.097	0.158	0.346	0.187	0.533	1.6	no	no
Right	/	/	/	/	/	1.6	no	no
Bottom	/	/	/	/	/	1.6	no	no
Top	/	/	/	/	/	1.6	no	no

Simultaneous transmission SAR for BT and LTE

Reported SAR1-g(W/kg)	Test Position					
	Front	Rear	Left	Right	Bottom	Top
LTE Band2	0.334	0.451	0.321	/	/	/
LTE Band4	0.259	0.562	0.250	/	/	/
LTE Band5	0.118	0.214	0.095	/	/	/
LTE Band7	0.260	0.460	0.246	/	/	/
LTE Band12	0.045	0.070	0.037	/	/	/
LTE Band17	0.052	0.068	0.043	/	/	/
LTE Band25	0.113	0.199	0.104	/	/	/
LTE Band26	0.406	0.477	0.394	/	/	/
LTE Band38	0.279	0.519	0.271	/	/	/
LTE Band41	0.297	0.720	0.271	/	/	/
LTE Band66	0.169	0.213	0.158	/	/	/
BT Estimated SAR1-g (W/kg)	0.187	0.187	0.187	/	/	/
MAX. ΣSAR1-g (W/kg)	0.593	0.907	0.581	/	/	/
SAR1-g Limit (W/kg)	1.6	1.6	1.6	1.6	1.6	1.6
Peak location separation ratio	no	no	no	no	no	no
Simut Meas. Required	no	no	no	no	no	no

Note:

1. The WiFi and BT share same antenna, so cannot transmit at same time.



2. The value with **block** color is the maximum values of standalone
3. The value with blue color is the maximum values of ΣSAR_{1-g}

4.5. SAR Measurement Variability

According to KDB865664, Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR value of the initial repeated measurement is < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. A second repeated measurement is required only if the measured result for the initial repeated measurement is within 10% of the SAR limit and vary by more than 20%, which are often related to device and measurement setup difficulties. The following procedures are applied to determine if repeated measurements are required. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.¹⁹ The repeated measurement results must be clearly identified in the SAR report. All measured SAR, including the repeated results, must be considered to determine compliance and for reporting according to KDB 690783. Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

- 3) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 4) 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).
- 5) 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 .
- 6) 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 .

Frequency Band (MHz)	Air Interface	RF Exposure Configuration	Test Position	Repeated SAR (yes/no)	Highest Measured SAR _{1-g} (W/Kg)	First Repeated	
						Measured SAR _{1-g} (W/Kg)	Largest to Smallest SAR Ratio
750	LTE Band 12	Standalone	Cheek-Left	no	0.161	n/a	n/a
	LTE Band 17	Standalone	Cheek-Left	no	0.072	n/a	n/a
850	GSM 850	Standalone	Body-Rear	no	0.333	n/a	n/a
	WCDMA Band V	Standalone	Body-Rear	no	0.215	n/a	n/a
	LTE Band 5	Standalone	Body-Rear	no	0.201	n/a	n/a
	LTE Band 26	Standalone	Body-Rear	no	0.433	n/a	n/a
1800	WCDMA Band IV	Standalone	Body-Rear	no	0.266	n/a	n/a
	LTE Band 4	Standalone	Body-Rear	no	0.535	n/a	n/a
	LTE Band 66	Standalone	Body-Rear	no	0.213	n/a	n/a
1900	GSM 1900	Standalone	Body-Rear	no	0.275	n/a	n/a
	WCDMA Band II	Standalone	Body-Rear	no	0.505	n/a	n/a
	LTE Band 2	Standalone	Body-Rear	no	0.450	n/a	n/a
	LTE Band 25	Standalone	Cheek-Left	no	0.376	n/a	n/a
2450	2.4GWLAN	Standalone	Body-Rear	no	0.258	n/a	n/a
2600	LTE Band 7	Standalone	Cheek-Left	no	0.530	n/a	n/a
	LTE Band 38	Standalone	Body-Rear	no	0.508	n/a	n/a
	LTE Band 41	Standalone	Body-Rear	no	0.694	n/a	n/a
5200	5.2GWLAN	Standalone	Body-Rear	no	0.222	n/a	n/a
5800	5.8GWLAN	Standalone	Body-Rear	no	0.132	n/a	n/a

Remark:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 or 3 (1-g or 10-g respectively)



4.6. General description of test procedures

1. Test positions as described in the tables above are in accordance with the specified test standard.
2. Tests in body position were performed in that configuration, which generates the highest time based averaged output power (see conducted power results).
3. According to IEEE 1528 the SAR test shall be performed at middle channel. Testing of top and bottom channel is optional.
4. According to KDB 447498 D01 testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
5. IEEE 1528-2003 require the middle channel to be tested first. This generally applies to wireless devices that are designed to operate in technologies with tight tolerances for maximum output power variations across channels in the band. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
6. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements.¹⁹ If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
7. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

4.7. Measurement Uncertainty (450MHz-6GHz)

Not required as SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR according to KDB865664D01.



4.8. System Check Results

Test mode:750MHz(Head)

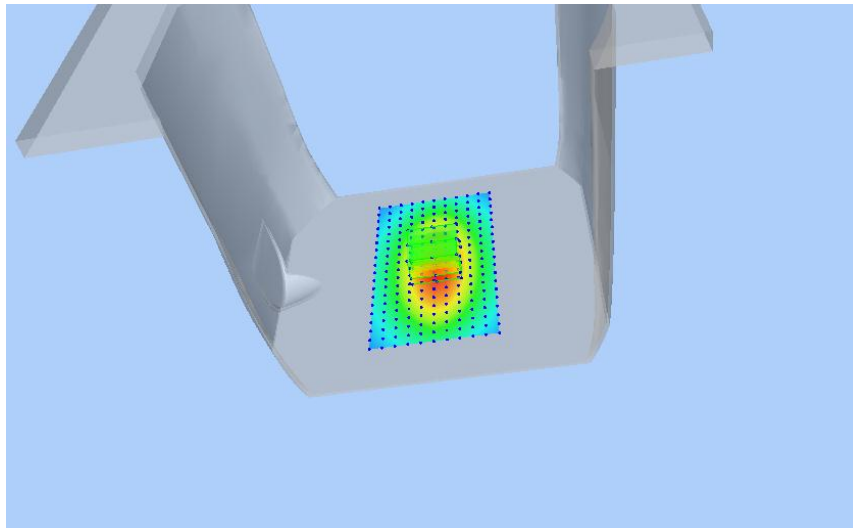
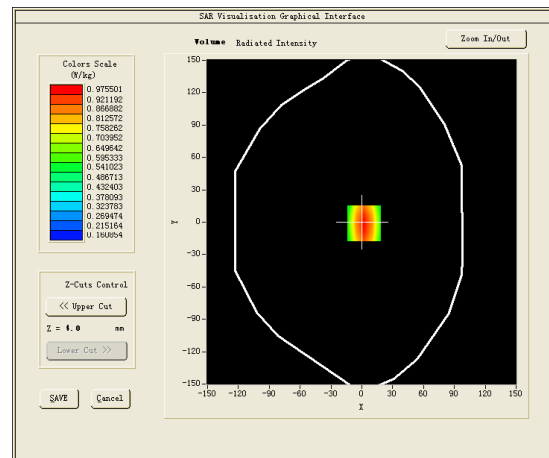
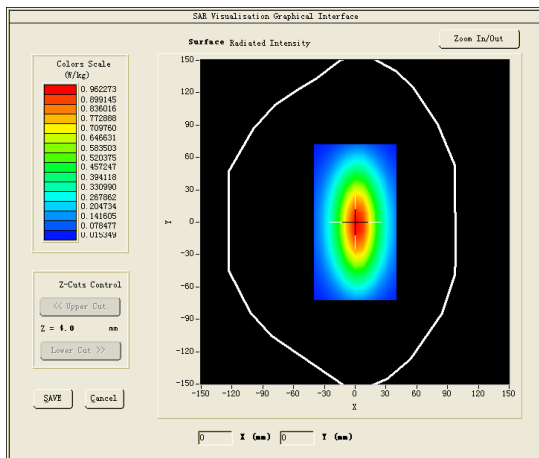
Product Description:Validation

Model:Dipole SID750

E-Field Probe: SSE2(SN 31/17 EPGO324)

Test Date: May 31, 2022

Medium(liquid type)	HSL_750
Frequency (MHz)	750.0000
Relative permittivity (real part)	41.58
Conductivity (S/m)	0.88
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.45
Variation (%)	1.420000
SAR 10g (W/Kg)	0.562452
SAR 1g (W/Kg)	0.824413
SURFACE SAR	VOLUME SAR





Test mode:835MHz(Head)

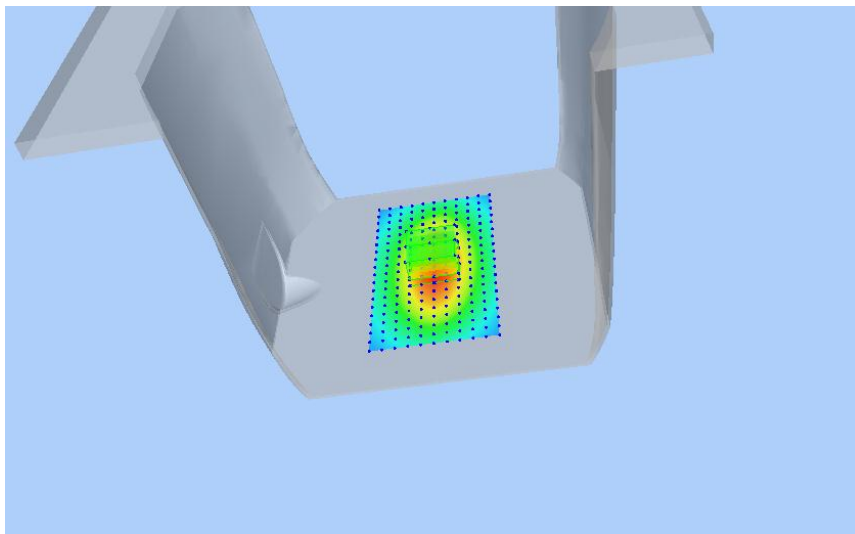
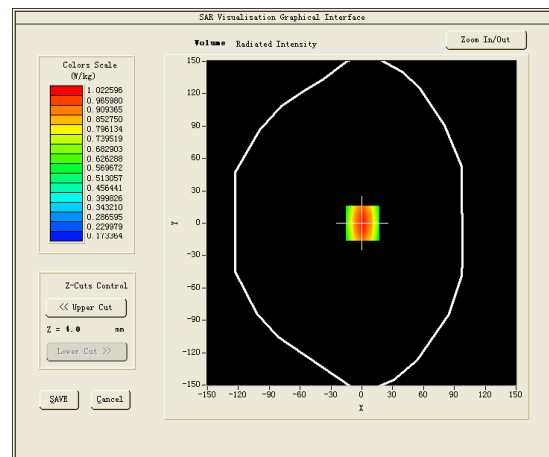
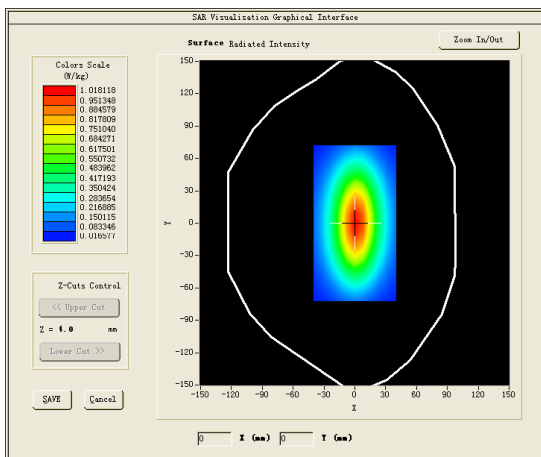
Product Description:Validation

Model:Dipole SID835

E-Field Probe:SSE2(SN 31/17 EPGO324)

Test Date: June 02, 2022

Medium(liquid type)	HSL_850
Frequency (MHz)	835.0000
Relative permittivity (real part)	40.14
Conductivity (S/m)	0.86
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.55
Variation (%)	-0.210000
SAR 10g (W/Kg)	0.632132
SAR 1g (W/Kg)	0.975488
SURFACE SAR	VOLUME SAR





Test mode:1800MHz(Head)

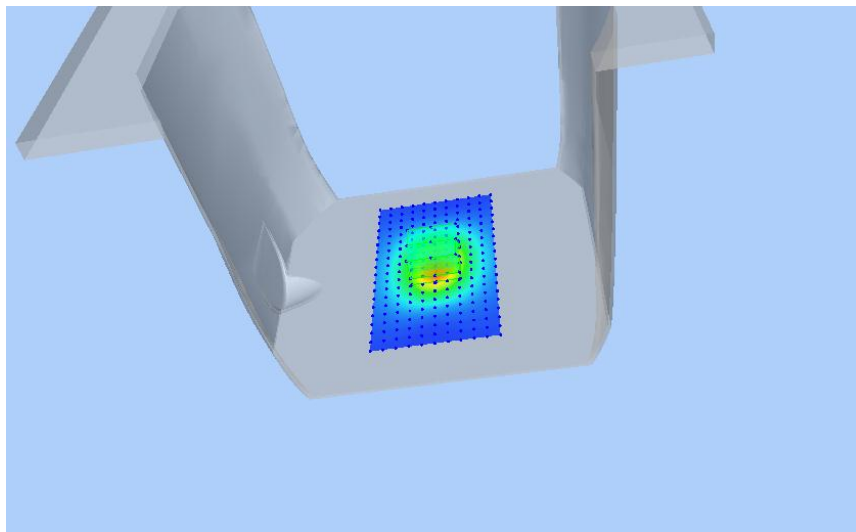
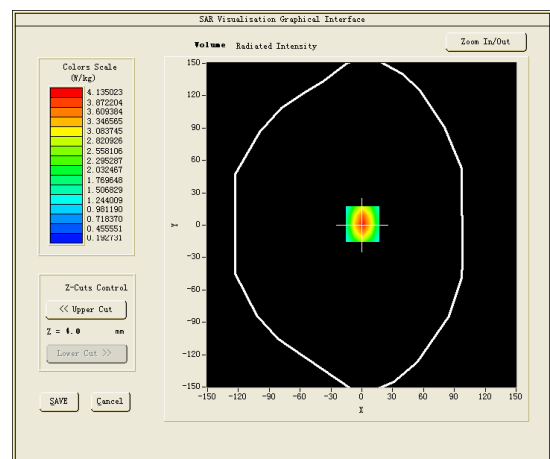
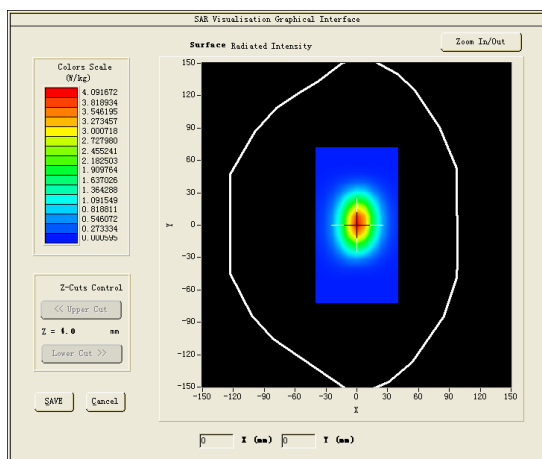
Product Description:Validation

Model :Dipole SID1800

E-Field Probe:SSE2(SN 31/17 EPGO324)

Test Date: June 06, 2022

Medium(liquid type)	HSL_1800
Frequency (MHz)	1800.0000
Relative permittivity (real part)	41.59
Conductivity (S/m)	1.42
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.65
Variation (%)	3.560000
SAR 10g (W/Kg)	2.013283
SAR 1g (W/Kg)	3.819085
SURFACE SAR	VOLUME SAR





Test mode:1900MHz(Head)

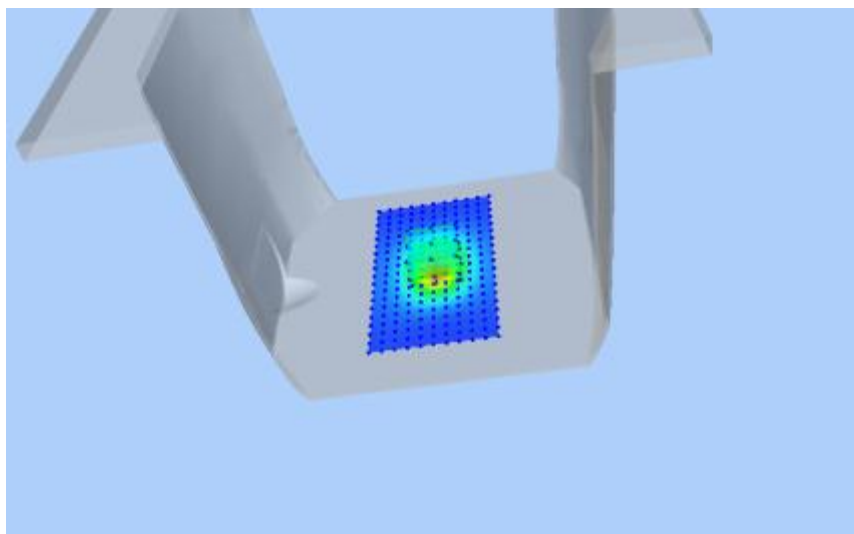
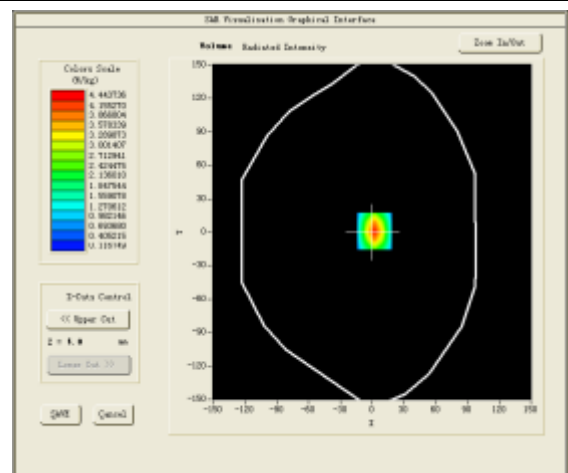
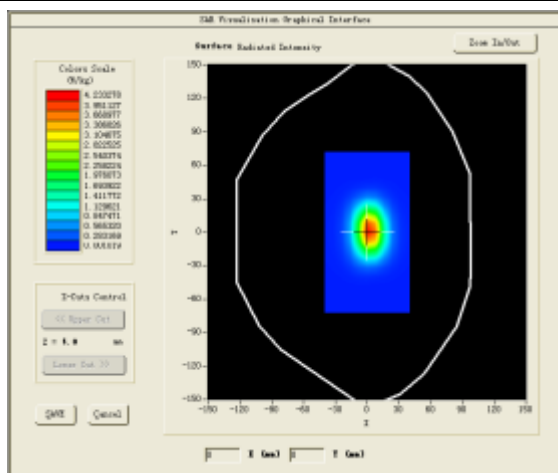
Product Description:Validation

Model :Dipole SID1900

E-Field Probe:SSE2(SN 31/17 EPGO324)

Test Date: June 07, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1900.0000
Relative permittivity (real part)	39.23
Conductivity (S/m)	1.37
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.86
Variation (%)	-1.170000
SAR 10g (W/Kg)	2.068260
SAR 1g (W/Kg)	3.921162
SURFACE SAR	VOLUME SAR





Test mode:2450MHz(Head)

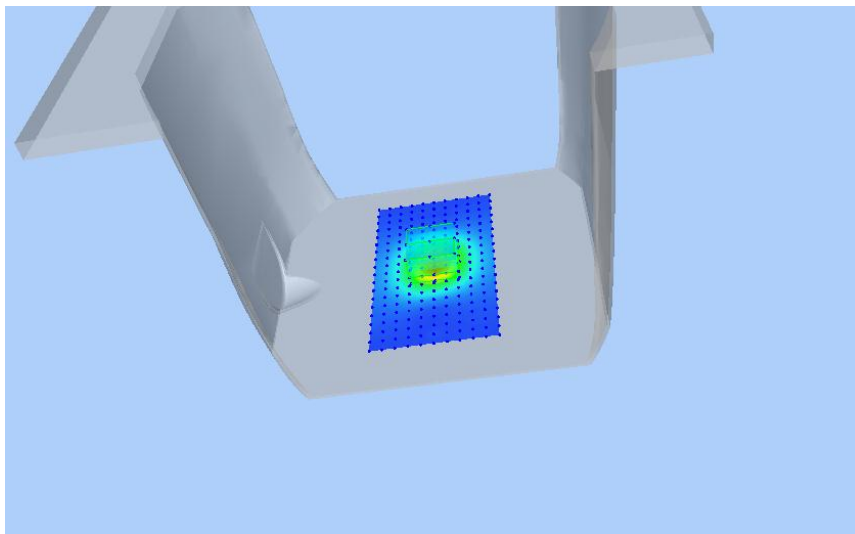
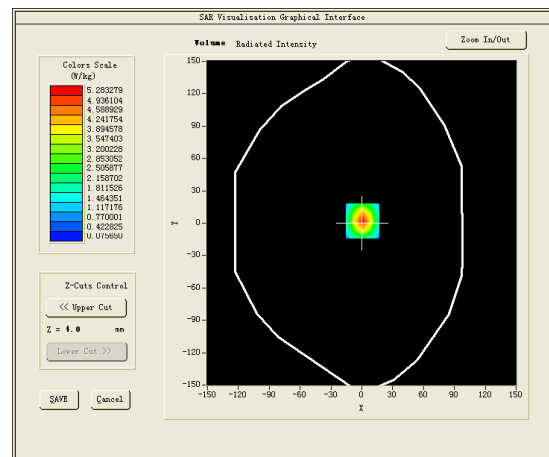
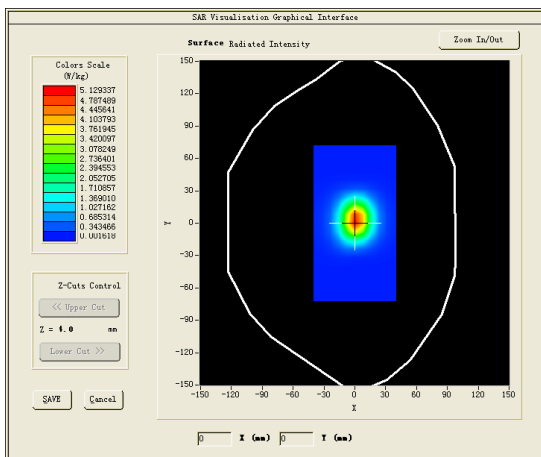
Product Description:Validation

Model:Dipole SID2450

E-Field Probe:SSE2(SN 31/17 EPGO324)

Test Date: June 08, 2022

Medium(liquid type)	HSL_2450
Frequency (MHz)	2450.0000
Relative permittivity (real part)	40.12
Conductivity (S/m)	1.76
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.91
Variation (%)	0.240000
SAR 10g (W/Kg)	2.343463
SAR 1g (W/Kg)	5.224016
SURFACE SAR	VOLUME SAR





Test mode:2600MHz

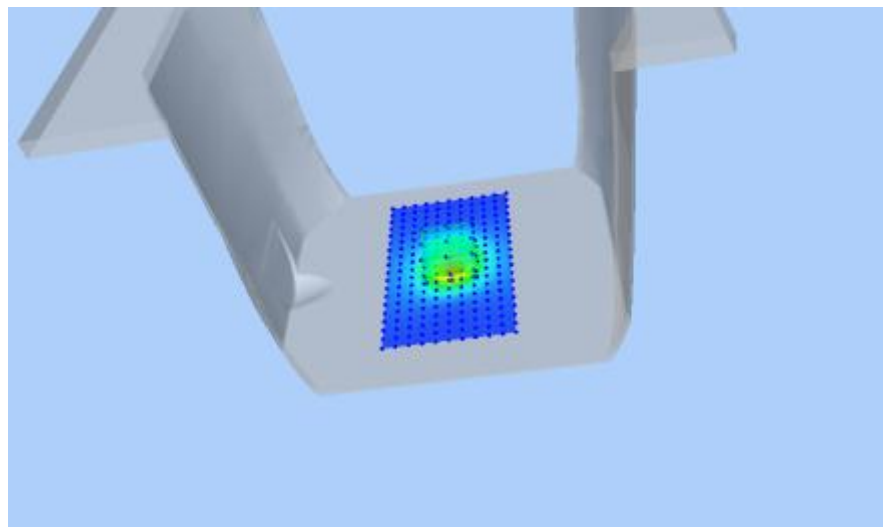
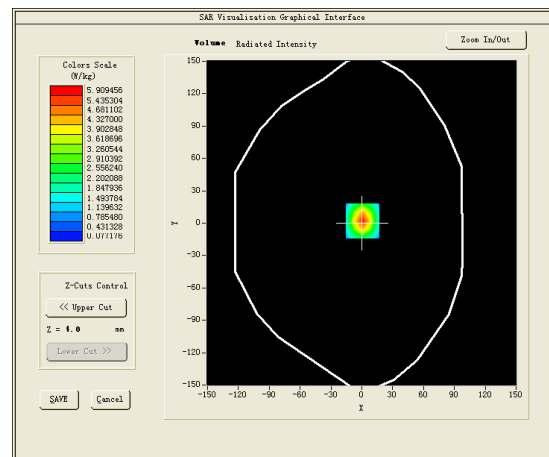
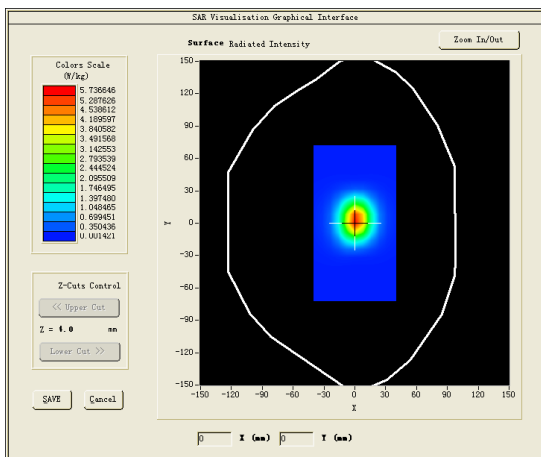
Product Description:Validation

Model:Dipole SID2600

E-Field Probe: SSE2(SN 31/17 EPGO324)

Test Date: June 13, 2022

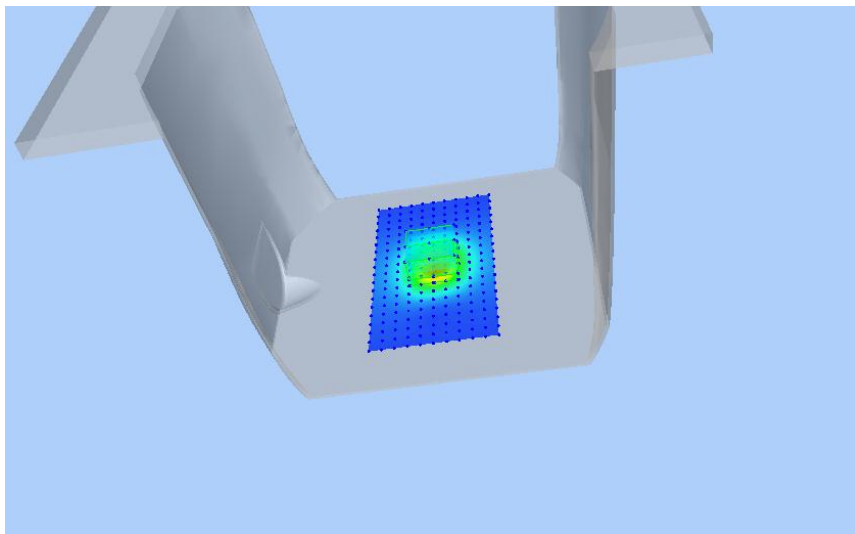
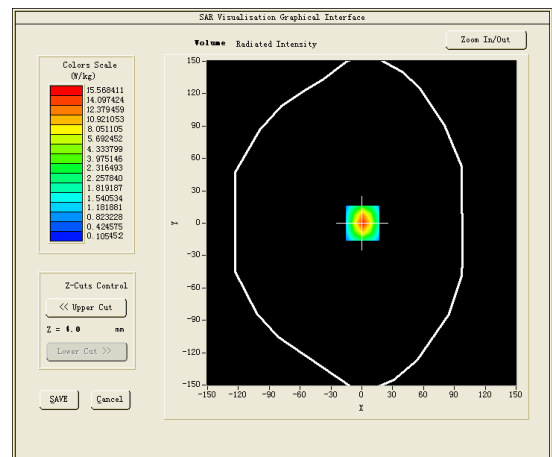
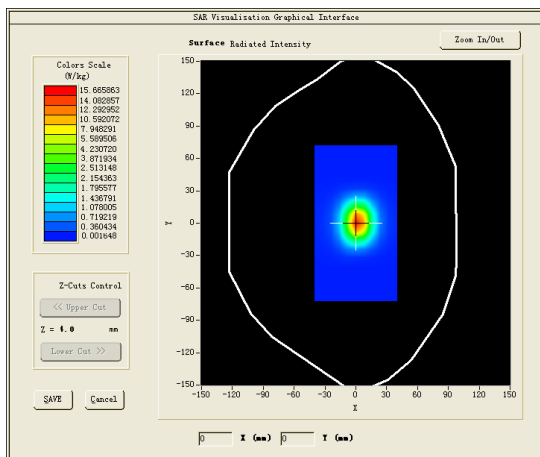
Medium(liquid type)	HSL_2600
Frequency (MHz)	2600.0000
Relative permittivity (real part)	35.81
Conductivity (S/m)	4.59
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.89
Variation (%)	3.250000
SAR 10g (W/Kg)	2.458235
SAR 1g (W/Kg)	5.511023
SURFACE SAR	VOLUME SAR





Test mode:5200MHz(Head)
Product Description:Validation
Model:Dipole SID5000
E-Field Probe: SSE2(SN 31/17 EPGO324)
Test Date: June 16, 2022

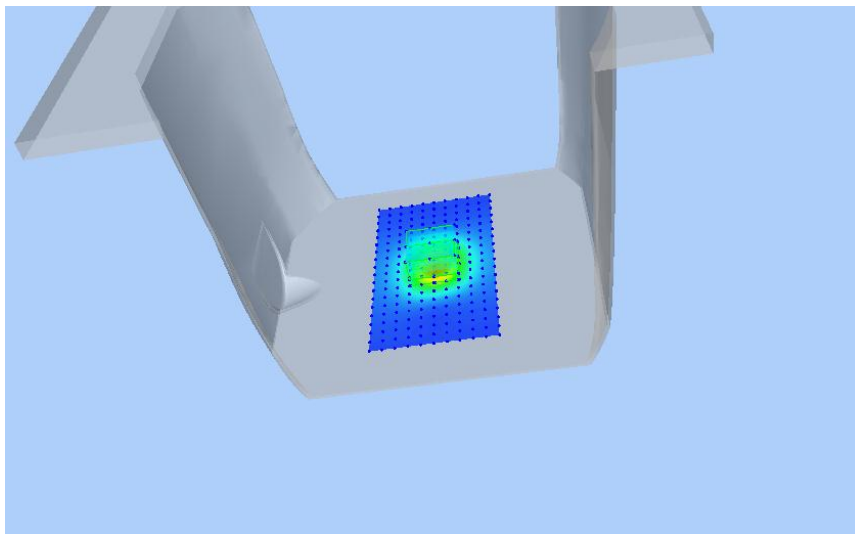
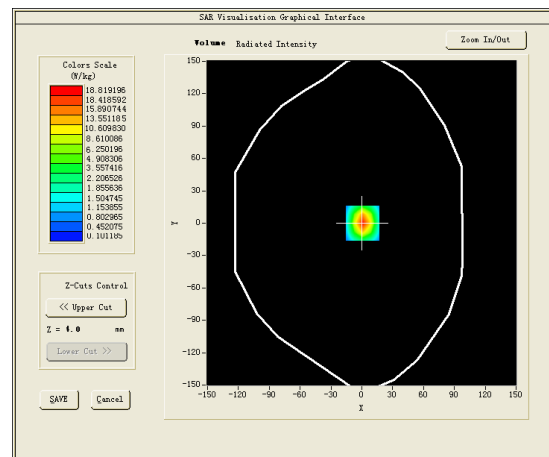
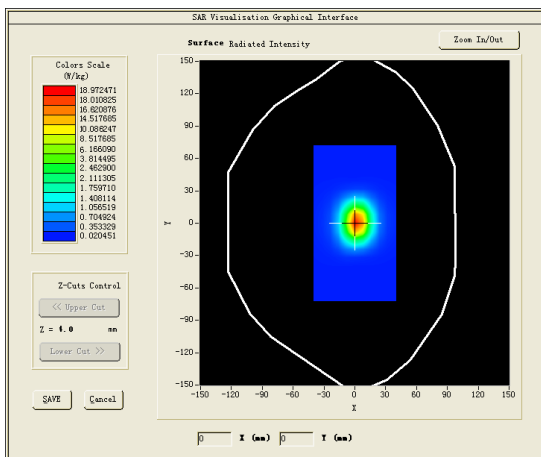
Medium(liquid type)	HSL_5000
Frequency (MHz)	5200.0000
Relative permittivity (real part)	48.80
Conductivity (S/m)	5.25
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.50
Variation (%)	-3.020000
SAR 10g (W/Kg)	5.512210
SAR 1g (W/Kg)	15.467034
SURFACE SAR	VOLUME SAR





Test mode:5800MHz(Head)
Product Description:Validation
Model:Dipole SID5000
E-Field Probe: SSE2(SN 31/17 EPGO324)
Test Date:June 17, 2022

Medium(liquid type)	HSL_5000
Frequency (MHz)	5800.0000
Relative permittivity (real part)	48.46
Conductivity (S/m)	6.05
Input power	100mW
Crest Factor	1.0
Conversion Factor	1.50
Variation (%)	-1.010000
SAR 10g (W/Kg)	6.177085
SAR 1g (W/Kg)	18.293250
SURFACE SAR	VOLUME SAR





4.9. SAR Test Graph Results

SAR plots for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination

#1

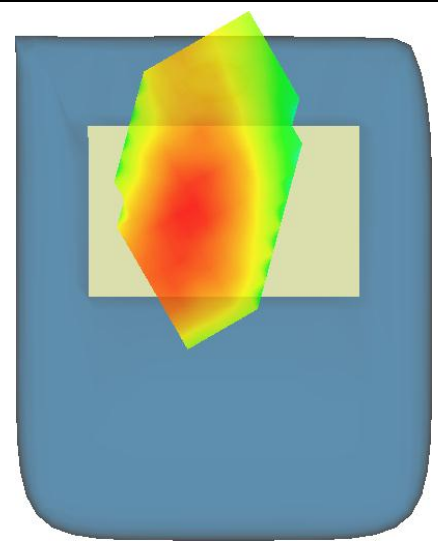
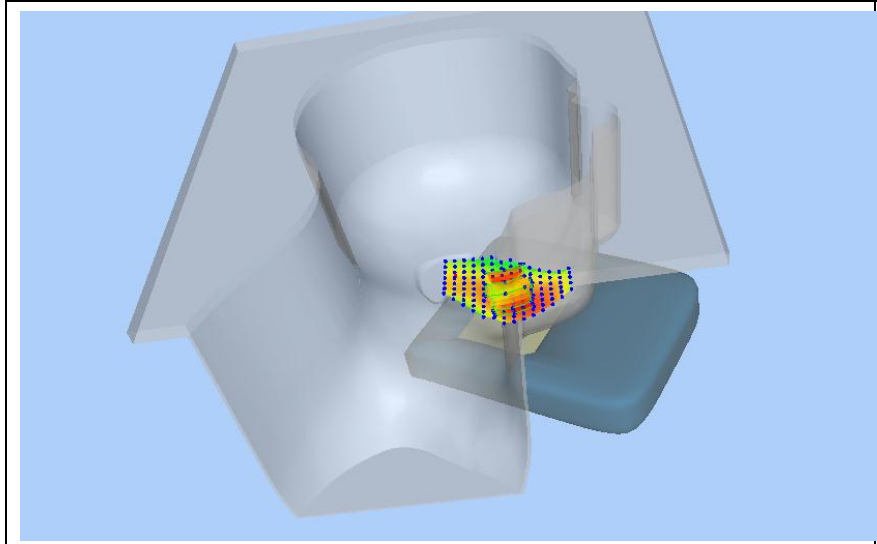
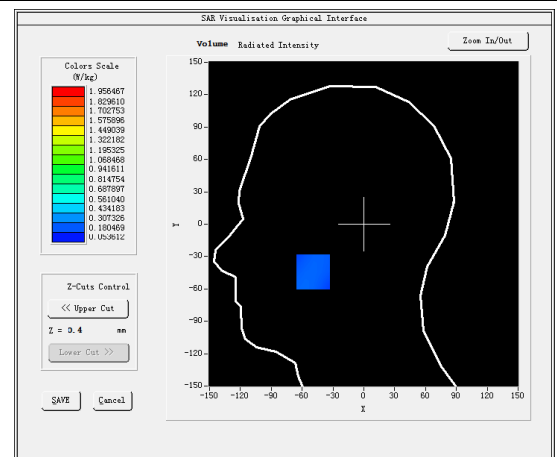
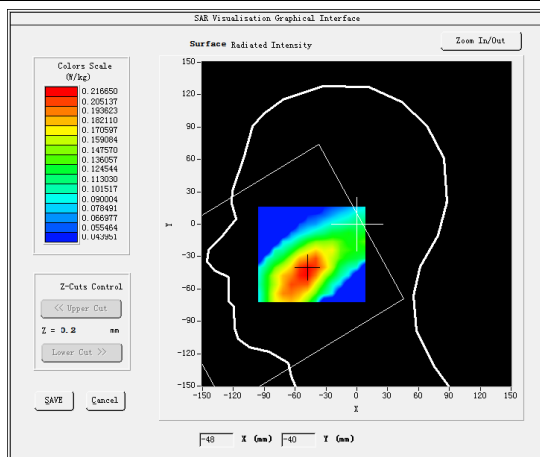
Test Mode: GSM850MHz,Middle channel(Head Left Cheek)

Product Description:Tablet

Model:RT1

Test Date: June 02, 2022

Medium(liquid type)	HSL_850
Frequency (MHz)	836.6000
Relative permittivity (real part)	41.23
Conductivity (S/m)	0.91
E-Field Probe	SN 31/17 EPG0324
Crest Factor	2.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-3.700000
SAR 10g (W/Kg)	0.239340
SAR 1g (W/Kg)	0.224823
SURFACE SAR	VOLUME SAR





#2

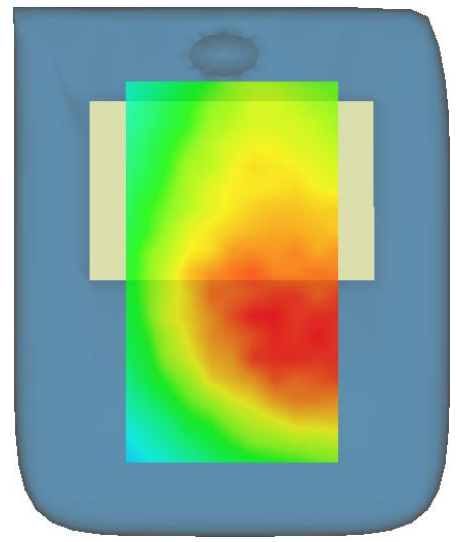
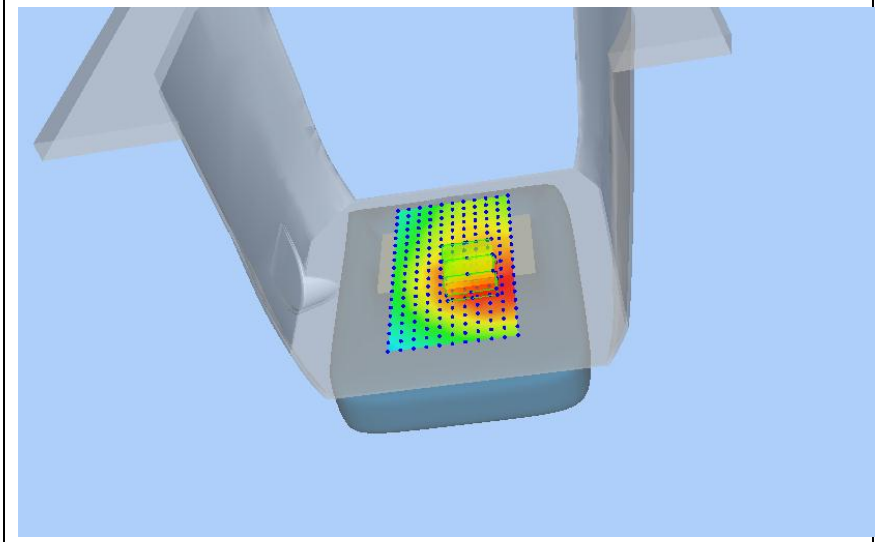
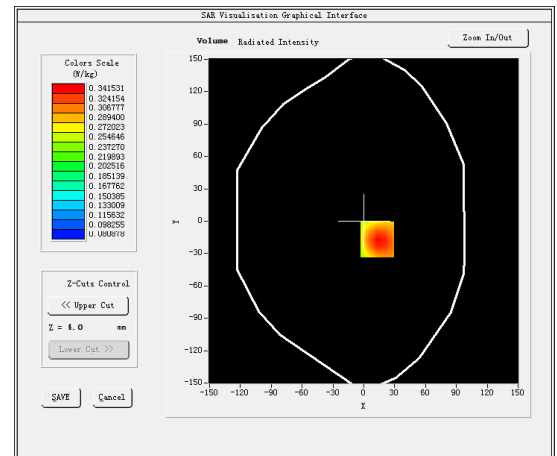
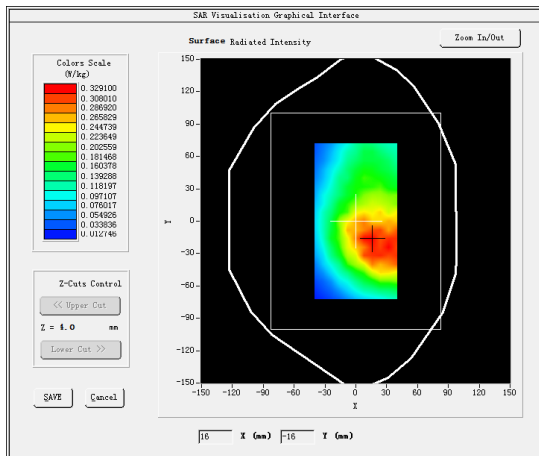
Test Mode: GSM850MHz,Middle channel(Body Rear Side)

Product Description:Tablet

Model:RT1

Test Date: June 02, 2022

Medium(liquid type)	HSL_850
Frequency (MHz)	836.6000
Relative permittivity (real part)	41.23
Conductivity (S/m)	0.91
E-Field Probe	SN 31/17 EPG0324
Crest Factor	2.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.370000
SAR 10g (W/Kg)	0.251065
SAR 1g (W/Kg)	0.332885
SURFACE SAR	VOLUME SAR





#3

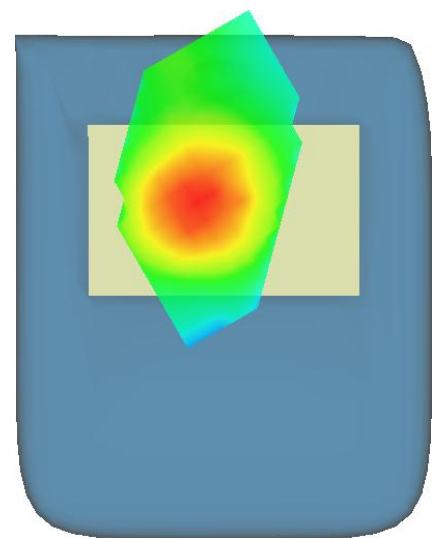
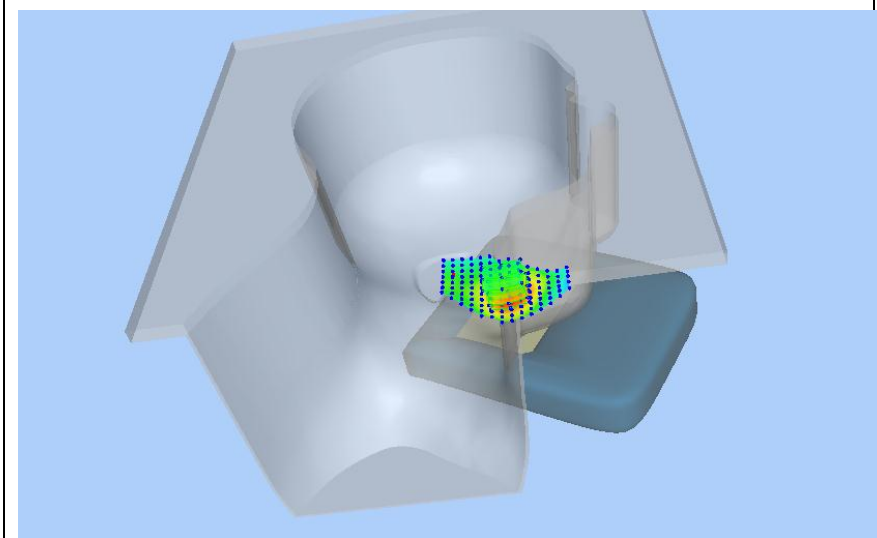
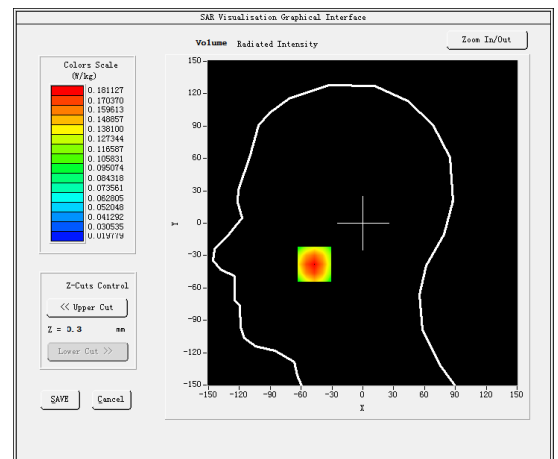
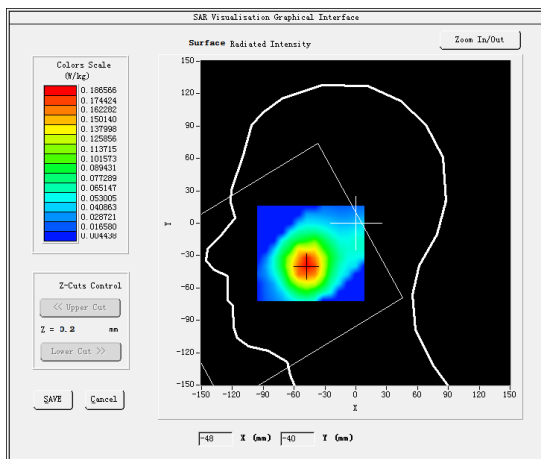
Test Mode: GPRS1900MHz,Middle channel(Head Left Cheek)

Product Description:Tablet

Model:RT1

Test Date: June 07, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1880.0000
Relative permittivity (real part)	40.75
Conductivity (S/m)	1.42
E-Field Probe	SN 31/17 EPGO324
Crest Factor	2.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.980000
SAR 10g (W/Kg)	0.109391
SAR 1g (W/Kg)	0.171980
SURFACE SAR	VOLUME SAR





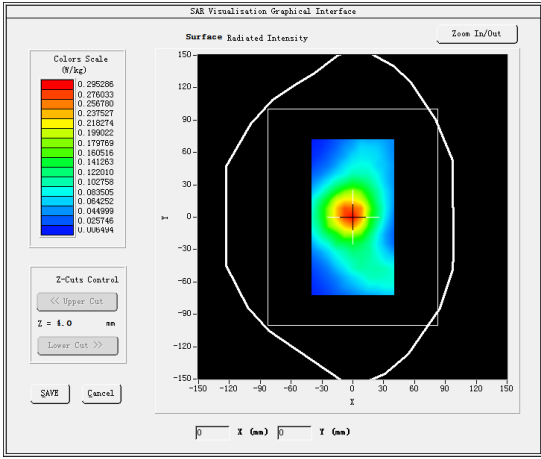
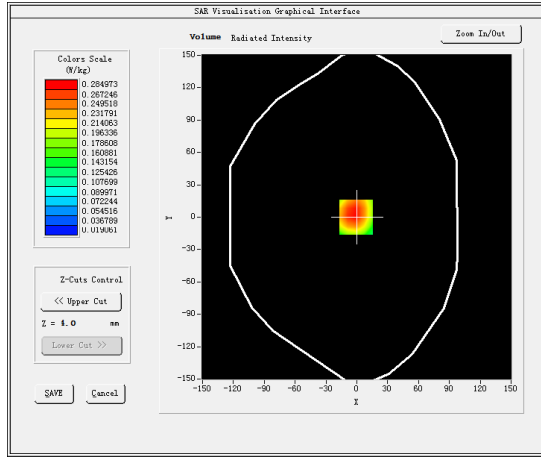
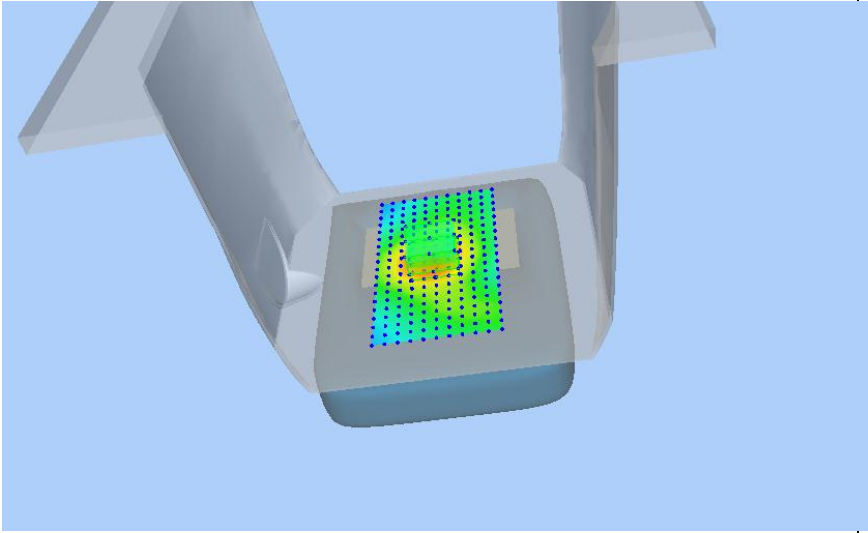
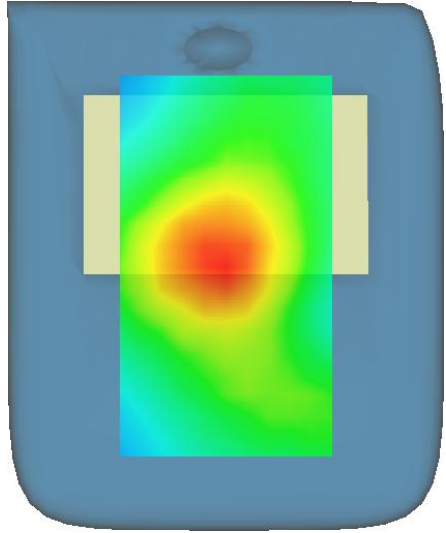
#4

Test Mode: GPRS1900MHz,Middle channel(Body Rear Side)

Product Description:Tablet

Model:RT1

Test Date: June 07, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1880.0000
Relative permittivity (real part)	40.75
Conductivity (S/m)	1.42
E-Field Probe	SN 31/17 EPGO324
Crest Factor	2.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	2.240000
SAR 10g (W/Kg)	0.163036
SAR 1g (W/Kg)	0.274708
SURFACE SAR	VOLUME SAR
	
	



#5

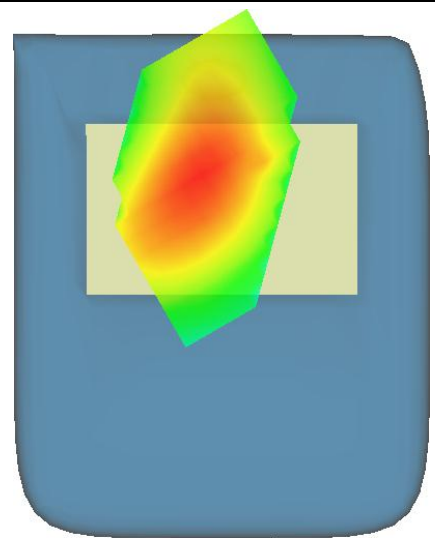
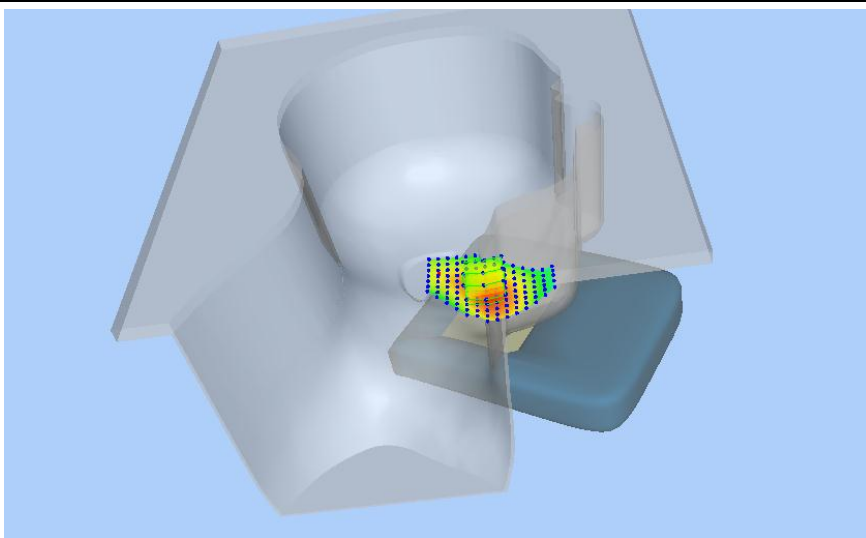
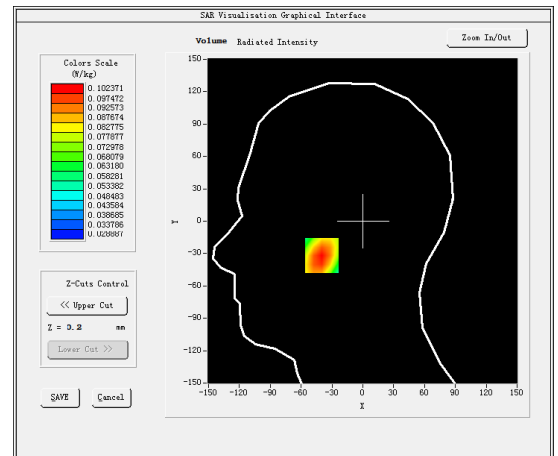
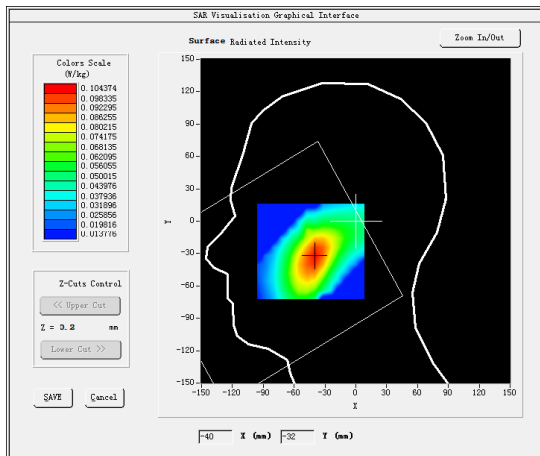
Test Mode: WCDMA Band V, Middle channel(Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 02, 2022

Medium(liquid type)	HSL_850
Frequency (MHz)	836.6000
Relative permittivity (real part)	40.23
Conductivity (S/m)	0.89
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.370000
SAR 10g (W/Kg)	0.075748
SAR 1g (W/Kg)	0.099334
SURFACE SAR	VOLUME SAR





#6

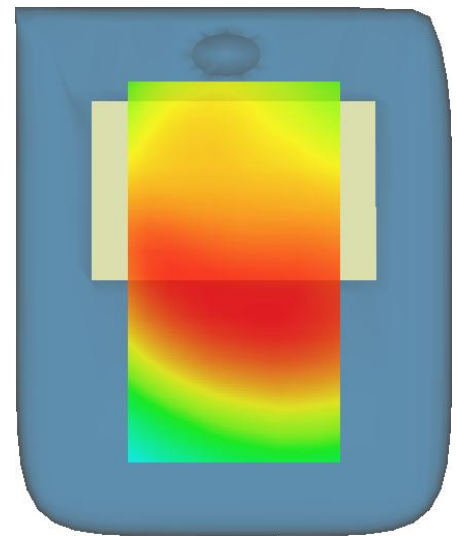
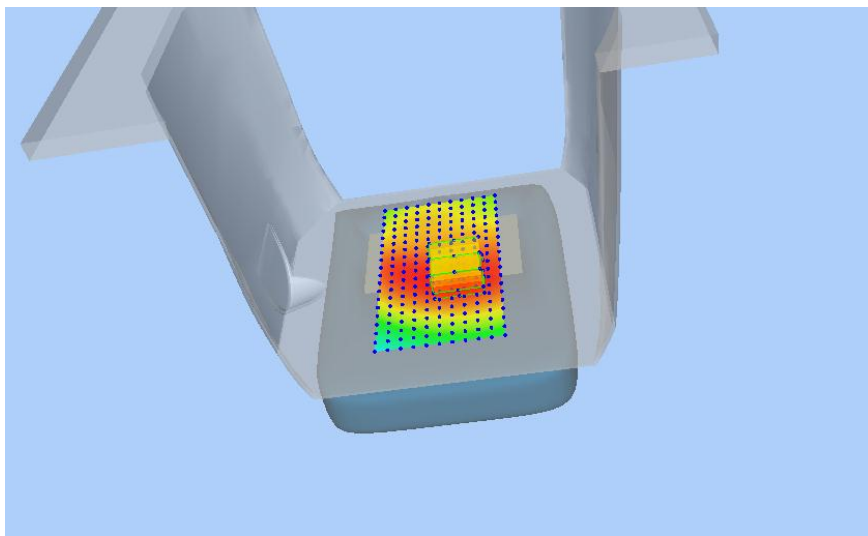
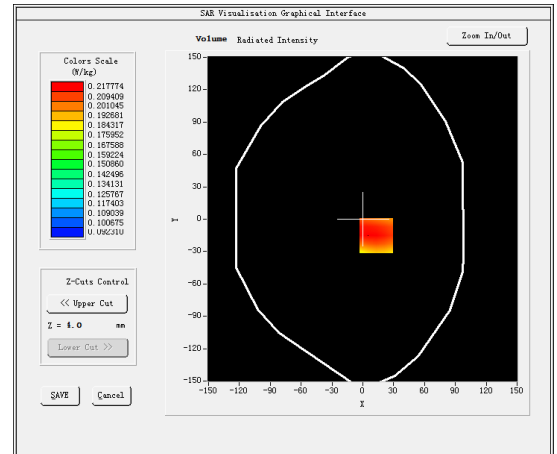
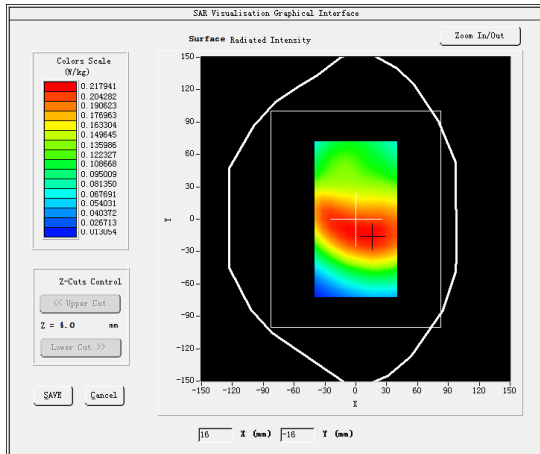
Test Mode: WCDMA Band V, Middle channel(Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 02, 2022

Medium(liquid type)	HSL_850
Frequency (MHz)	836.6000
Relative permittivity (real part)	40.23
Conductivity (S/m)	0.89
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.530000
SAR 10g (W/Kg)	0.175257
SAR 1g (W/Kg)	0.214786
SURFACE SAR	VOLUME SAR





#7

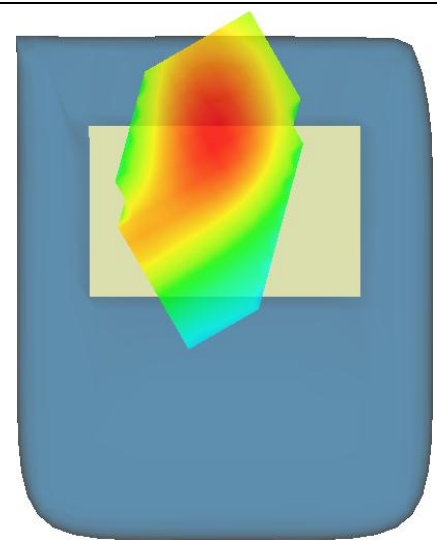
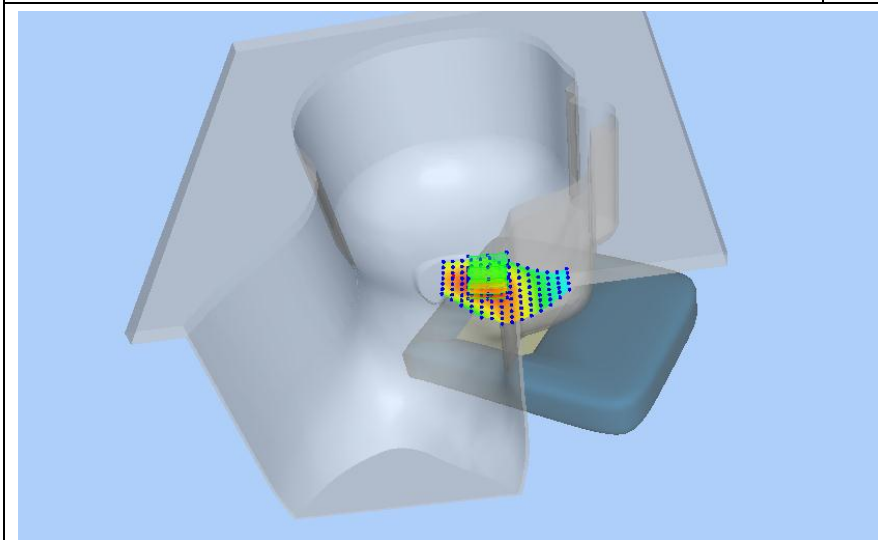
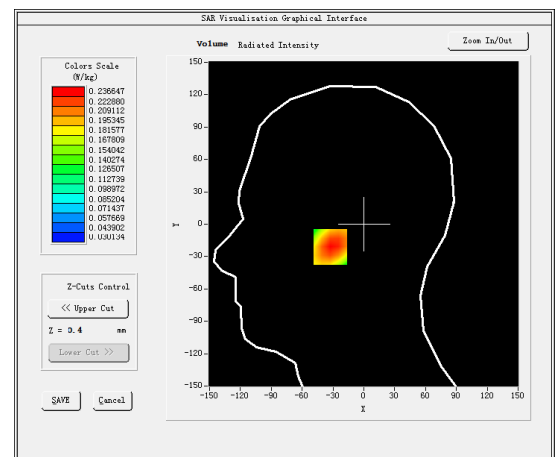
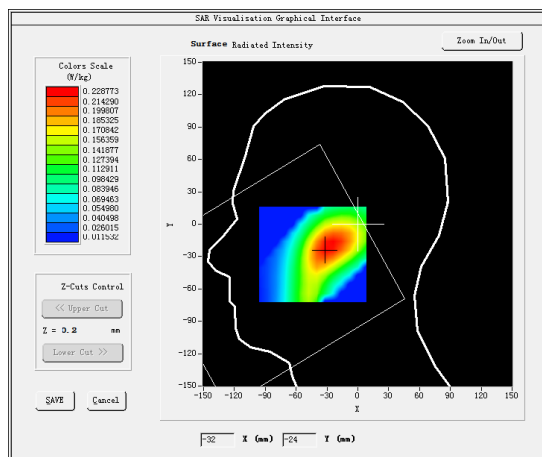
Test Mode: WCDMA Band IV, Middle channel(Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 06, 2022

Medium(liquid type)	HSL_1800
Frequency (MHz)	1732.6000
Relative permittivity (real part)	41.47
Conductivity (S/m)	1.41
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.430000
SAR 10g (W/Kg)	0.153359
SAR 1g (W/Kg)	0.237058
SURFACE SAR	VOLUME SAR





#8

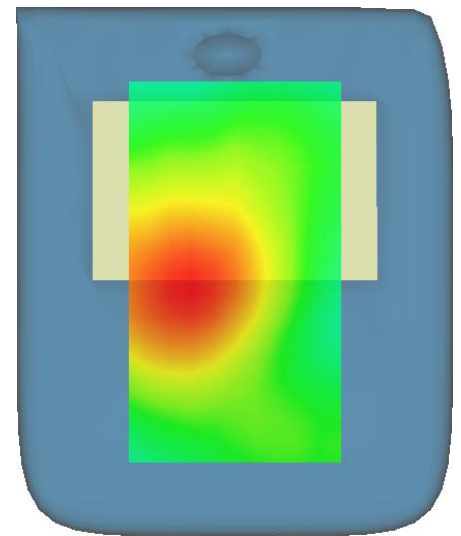
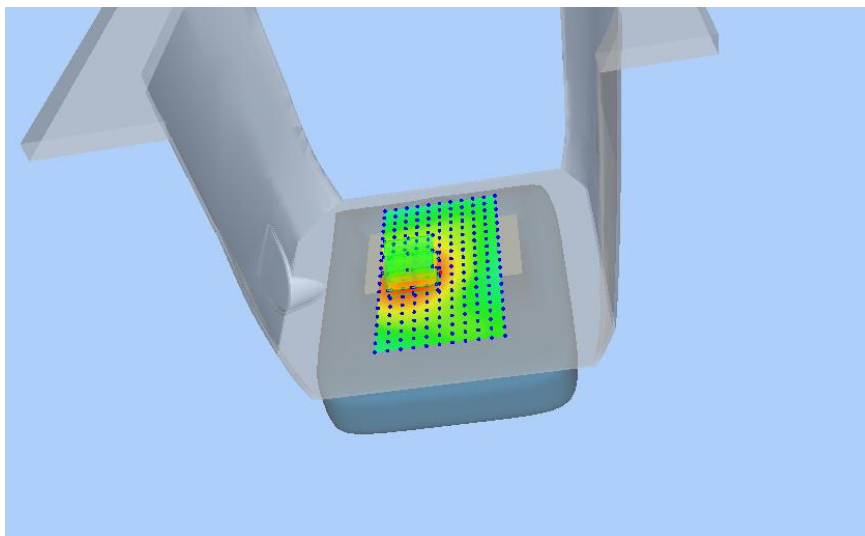
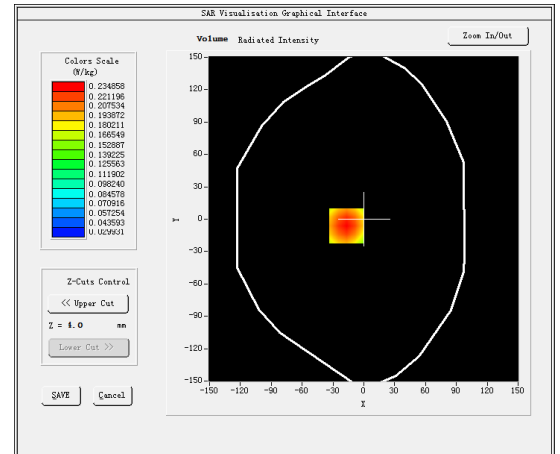
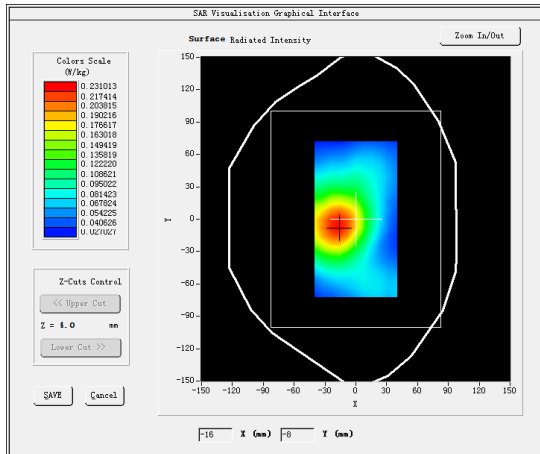
Test Mode: WCDMA Band IV,Middle channel(Body Rear Side)

Product Description:Tablet

Model:RT1

Test Date: June 06, 2022

Medium(liquid type)	HSL _1800
Frequency (MHz)	1732.6000
Relative permittivity (real part)	41.48
Conductivity (S/m)	1.41
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.820000
SAR 10g (W/Kg)	0.162504
SAR 1g (W/Kg)	0.266058
SURFACE SAR	VOLUME SAR





#9

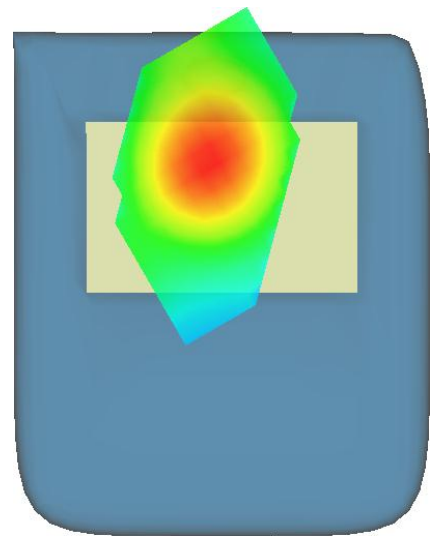
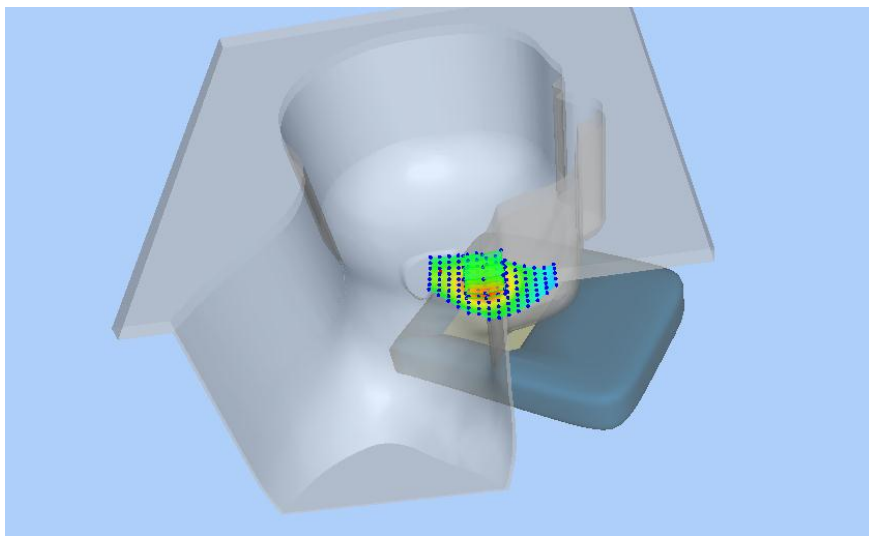
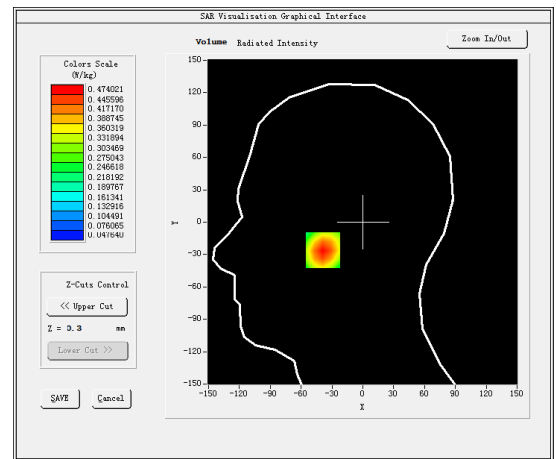
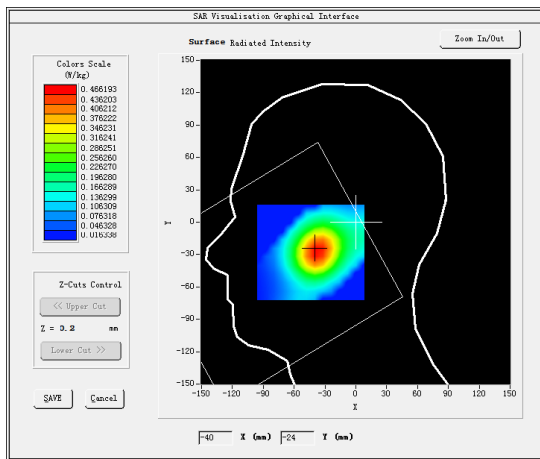
Test Mode: WCDMA Band II, Low channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 07, 2022

Medium (liquid type)	HSL_1900
Frequency (MHz)	1852.4000
Relative permittivity (real part)	39.25
Conductivity (S/m)	1.43
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-2.300000
SAR 10g (W/Kg)	0.281310
SAR 1g (W/Kg)	0.448759
SURFACE SAR	VOLUME SAR





#10

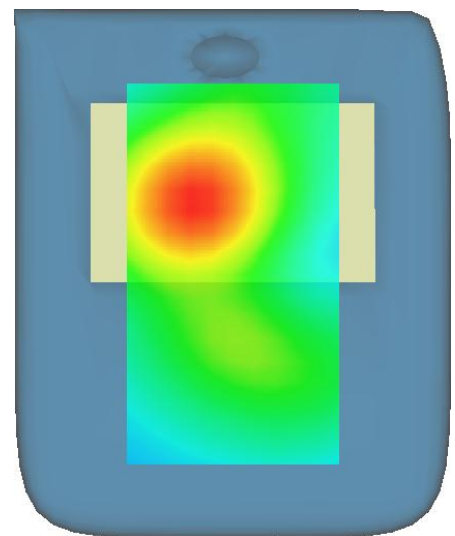
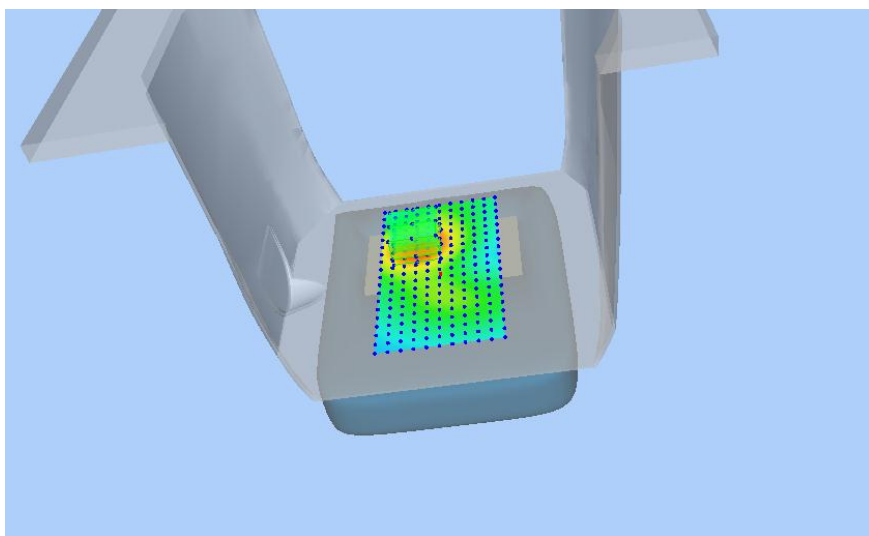
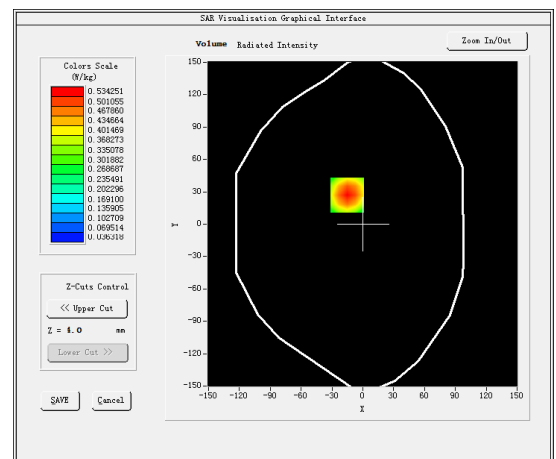
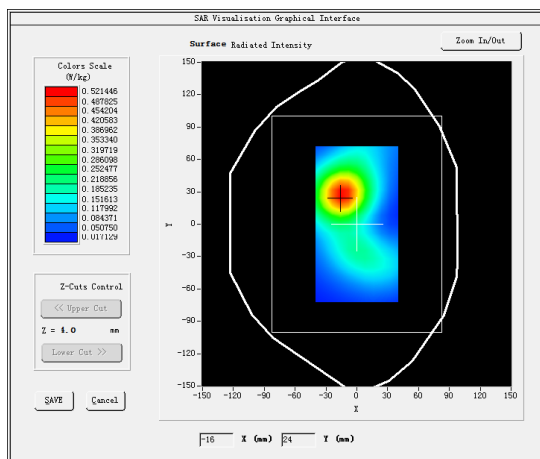
Test Mode: WCDMA Band II, Middle channel(Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 07, 2022

Medium(liquid type)	HSL_1900
Frequency (MHz)	1880.0000
Relative permittivity (real part)	39.25
Conductivity (S/m)	1.43
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.590000
SAR 10g (W/Kg)	0.300882
SAR 1g (W/Kg)	0.504849
SURFACE SAR	VOLUME SAR





#11

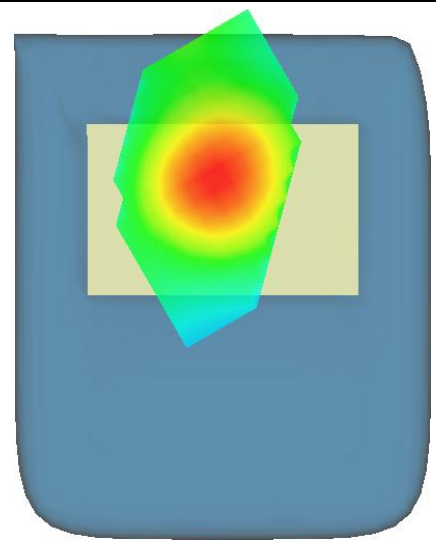
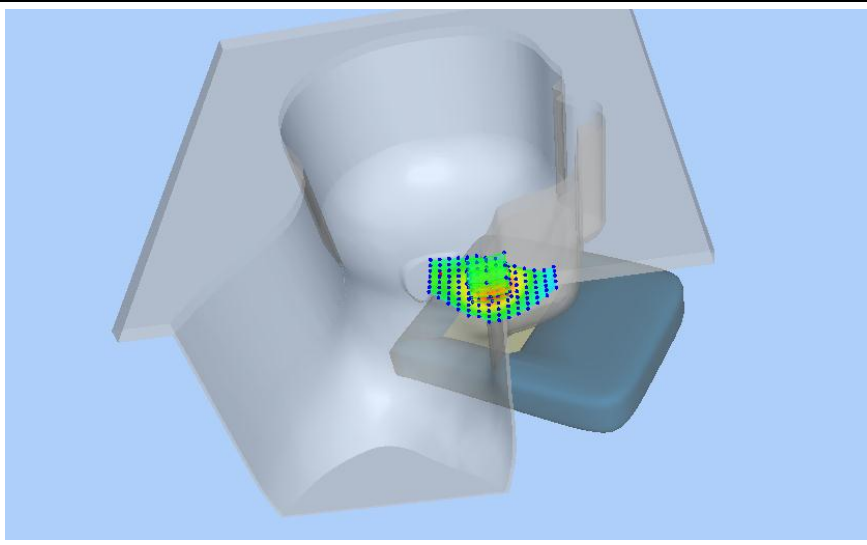
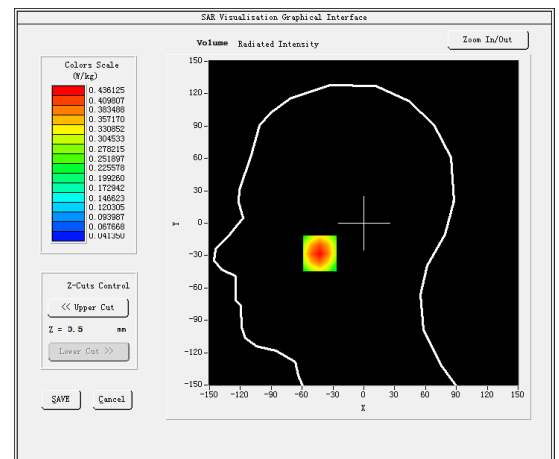
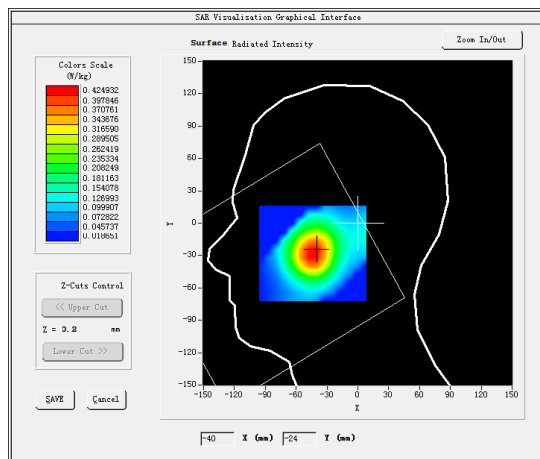
Test Mode: LTE Band 2, 1RB, High channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 07, 2022

Medium (liquid type)	HSL_1900
Frequency (MHz)	1900.0000
Relative permittivity (real part)	40.22
Conductivity (S/m)	1.78
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.760000
SAR 10g (W/Kg)	0.257011
SAR 1g (W/Kg)	0.412477
SURFACE SAR	VOLUME SAR





#12

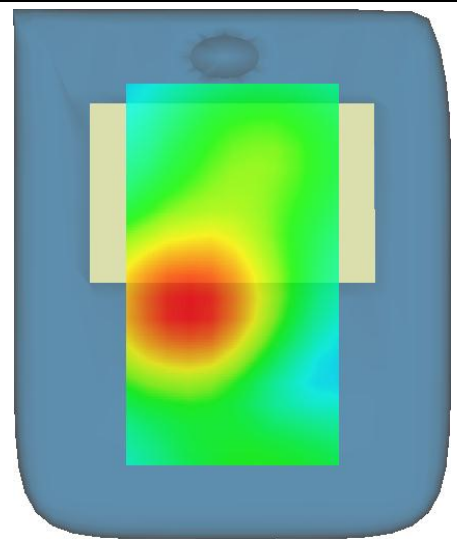
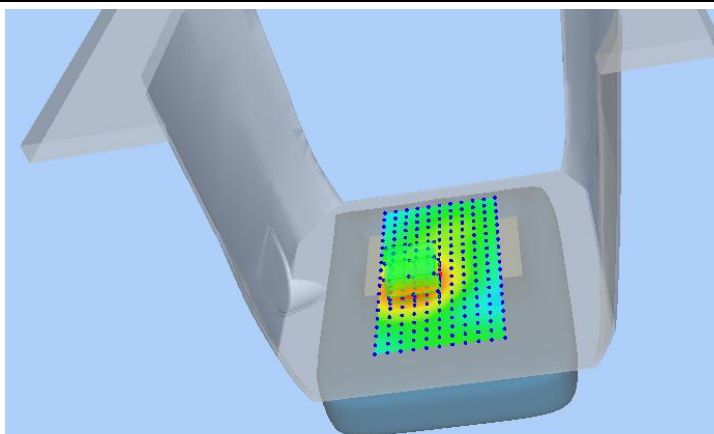
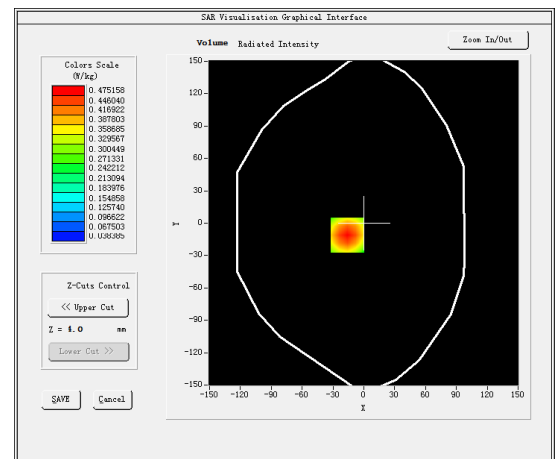
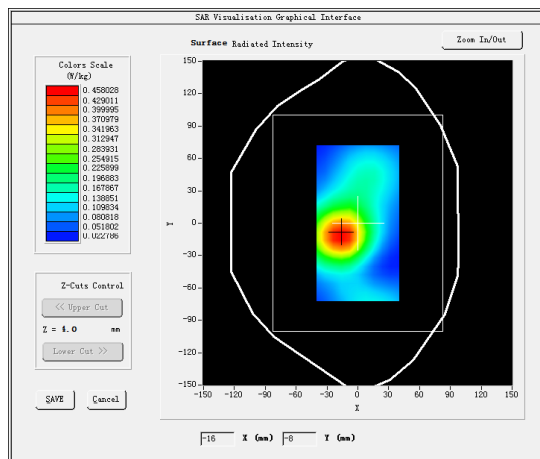
Test Mode: LTE Band 2, 1RB, High channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 07, 2022

Medium (liquid type)	HSL_1900
Frequency (MHz)	1900.0000
Relative permittivity (real part)	40.22
Conductivity (S/m)	1.78
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.86
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.070000
SAR 10g (W/Kg)	0.273237
SAR 1g (W/Kg)	0.450467
SURFACE SAR	VOLUME SAR





#13

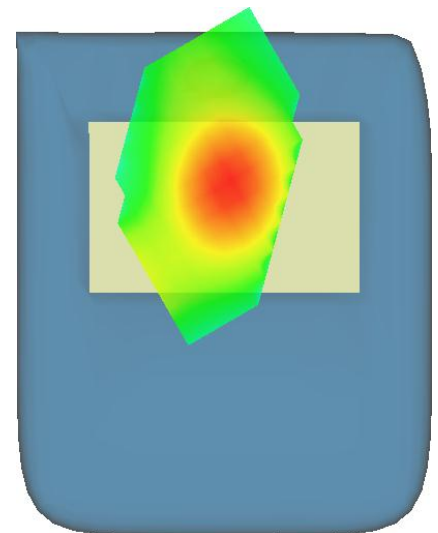
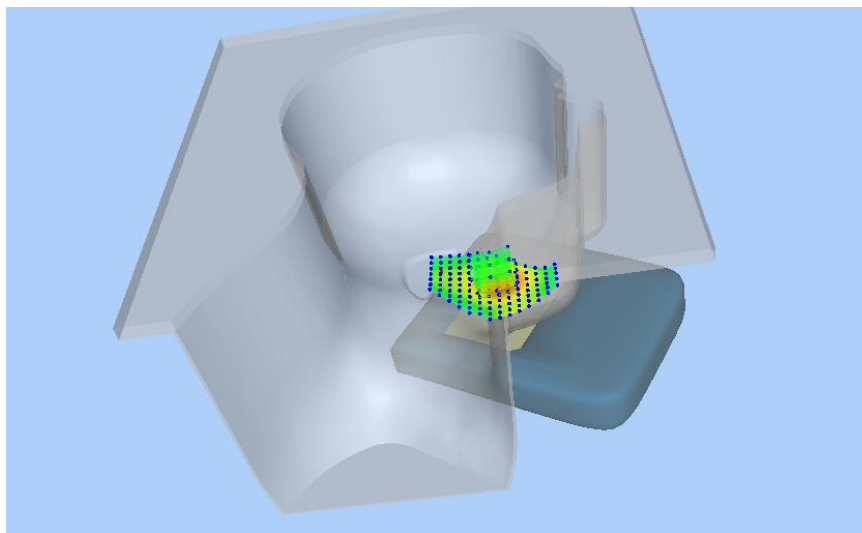
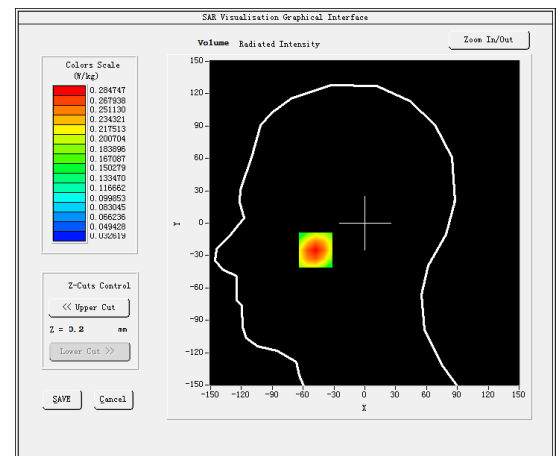
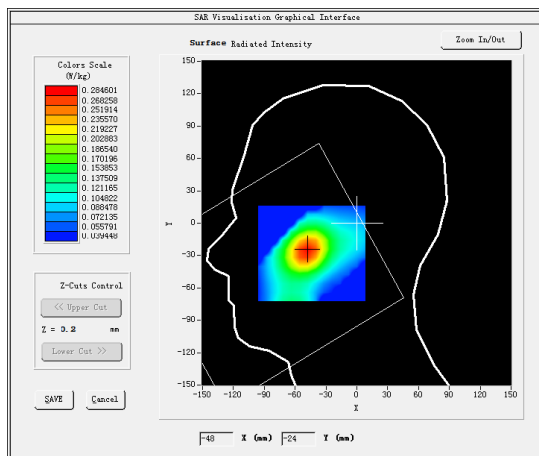
Test Mode: LTE Band 4, 1RB,Middle channel(Head Left Cheek)

Product Description:Tablet

Model:RT1

Test Date: June 06, 2022

Medium(liquid type)	HSL_1800
Frequency (MHz)	1732.5000
Relative permittivity (real part)	40.74
Conductivity (S/m)	1.38
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.630000
SAR 10g (W/Kg)	0.170032
SAR 1g (W/Kg)	0.269635
SURFACE SAR	VOLUME SAR





#14

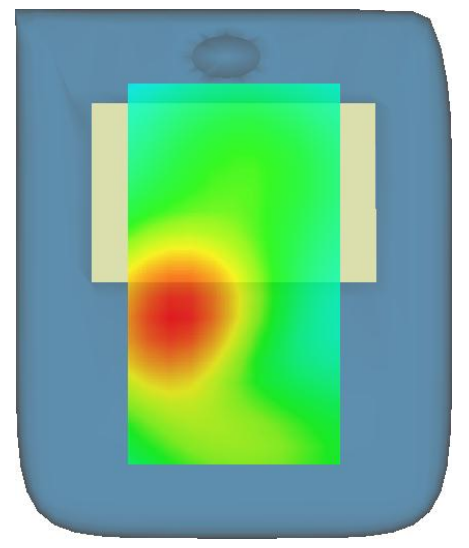
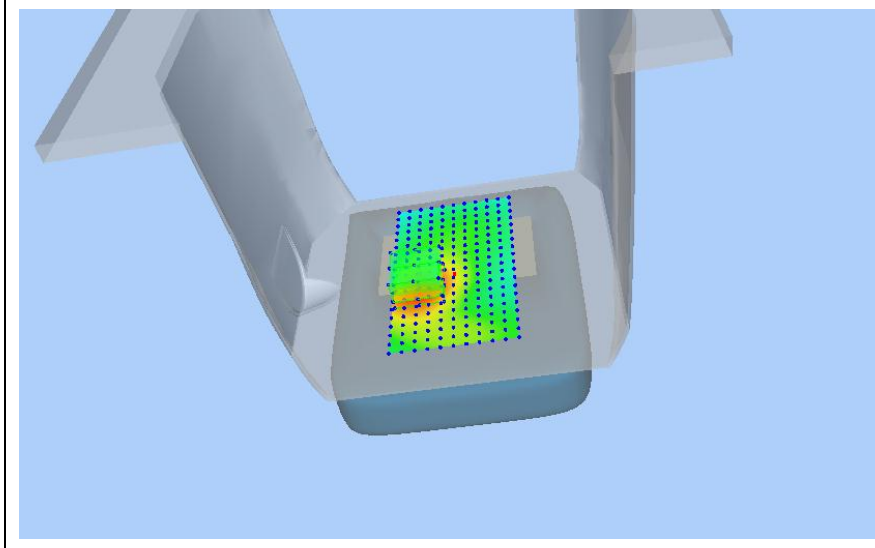
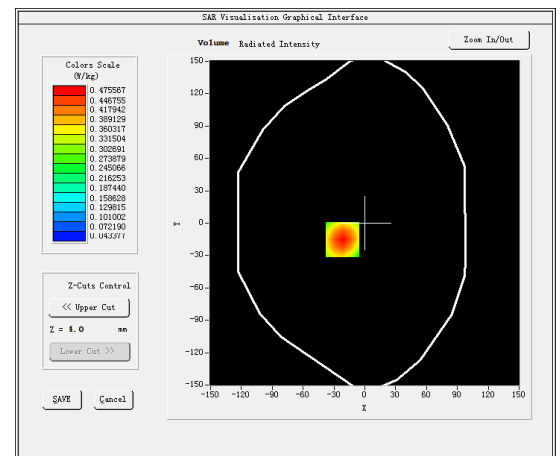
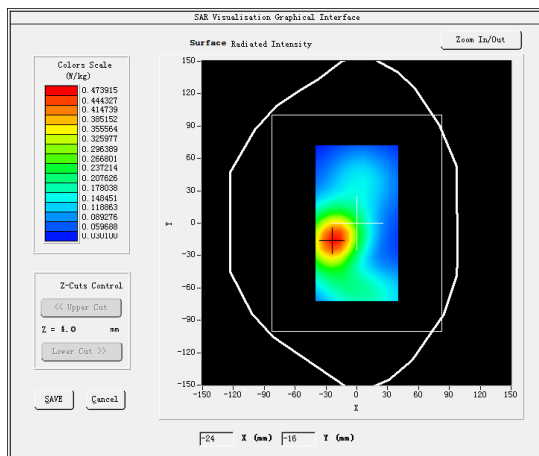
Test Mode: LTE Band 4, 1RB,Middle channel(Body Rear Side)

Product Description:Tablet

Model:RT1

Test Date: June 06, 2022

Medium(liquid type)	HSL_1800
Frequency (MHz)	1732.5000
Relative permittivity (real part)	40.74
Conductivity (S/m)	1.38
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.65
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.410000
SAR 10g (W/Kg)	0.311651
SAR 1g (W/Kg)	0.535318
SURFACE SAR	VOLUME SAR





#15

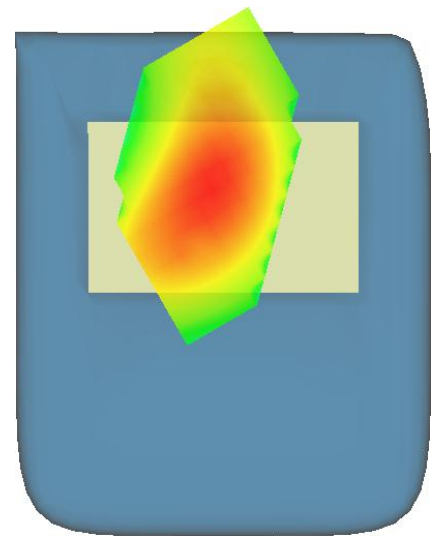
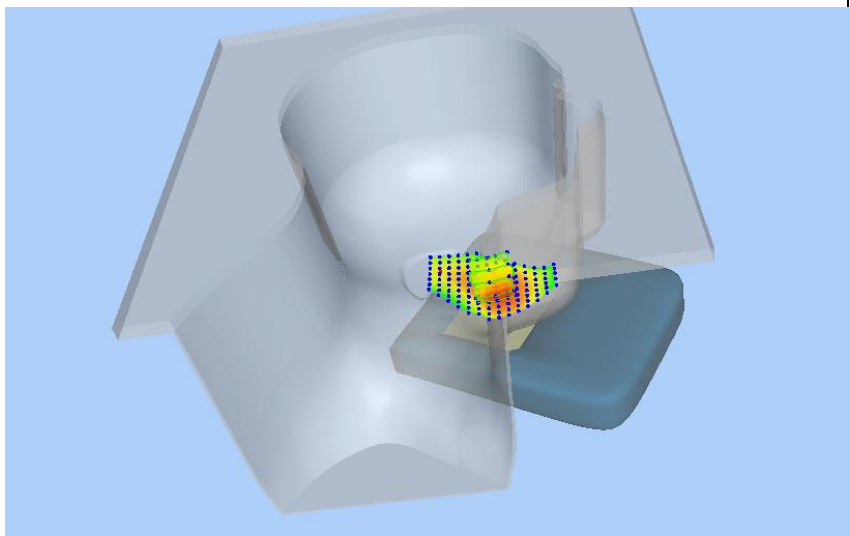
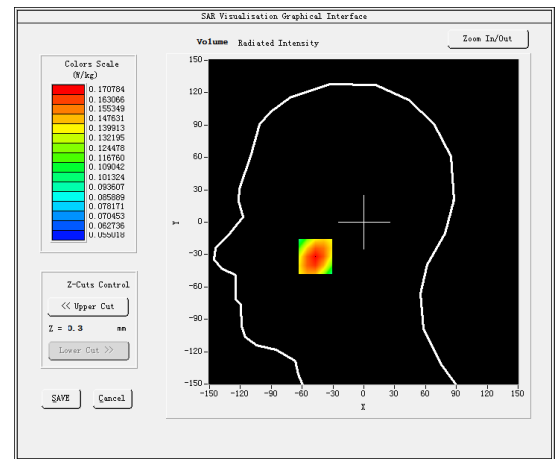
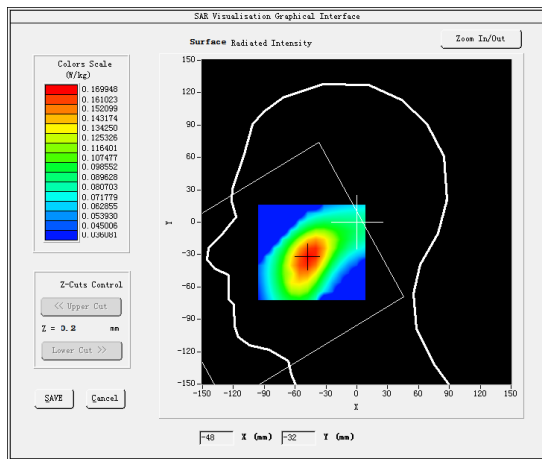
Test Mode: LTE Band 5, 1RB, Low channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 02, 2022

Medium (liquid type)	HSL_835
Frequency (MHz)	829.0000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.90
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	0.960000
SAR 10g (W/Kg)	0.127735
SAR 1g (W/Kg)	0.165096
SURFACE SAR	VOLUME SAR





#16

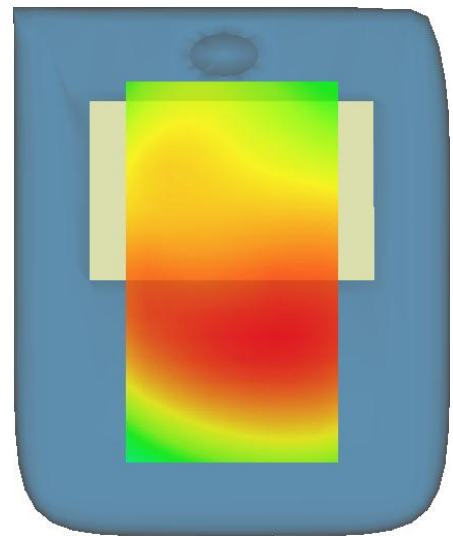
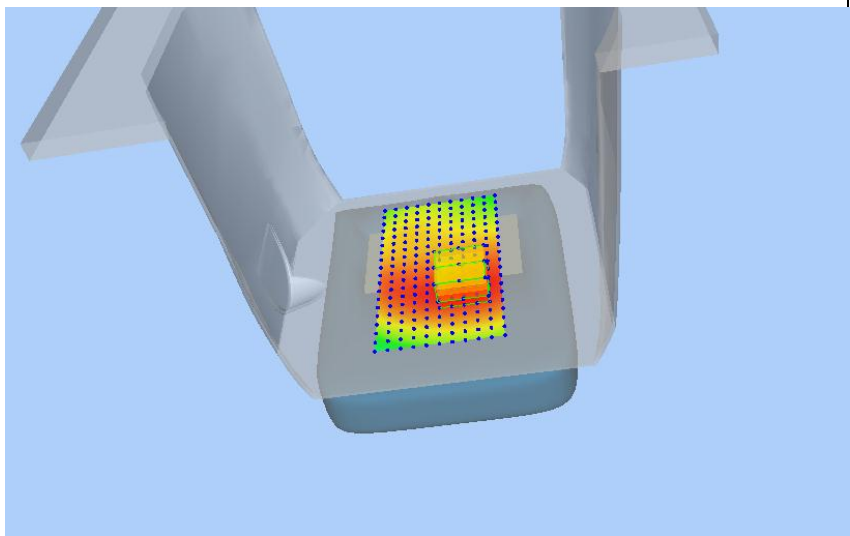
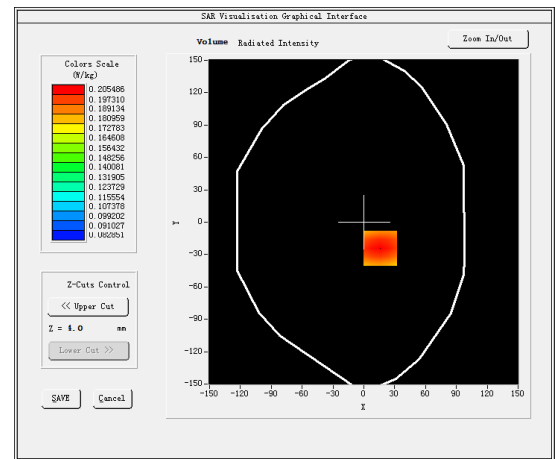
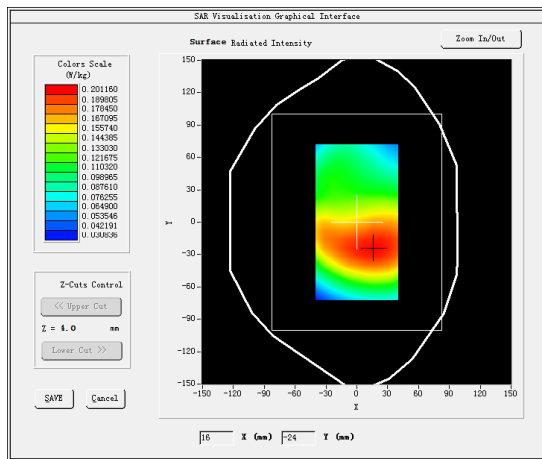
Test Mode: LTE Band 5, 1RB, Low channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 02, 2022

Medium (liquid type)	HSL_835
Frequency (MHz)	829.0000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.90
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.180000
SAR 10g (W/Kg)	0.162427
SAR 1g (W/Kg)	0.201213
SURFACE SAR	VOLUME SAR





#17

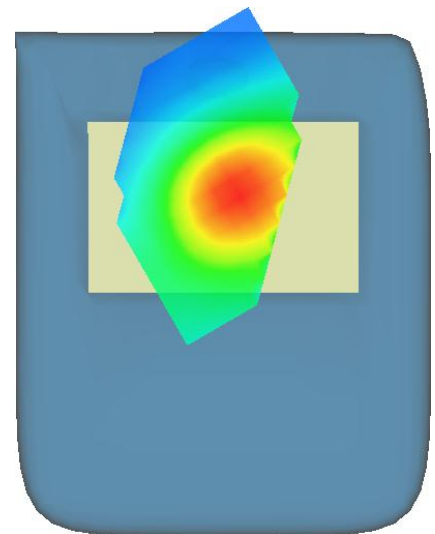
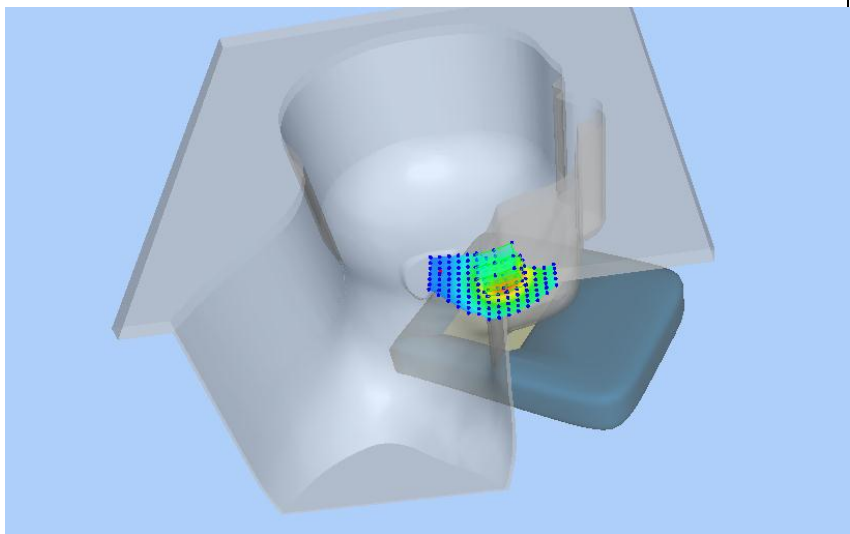
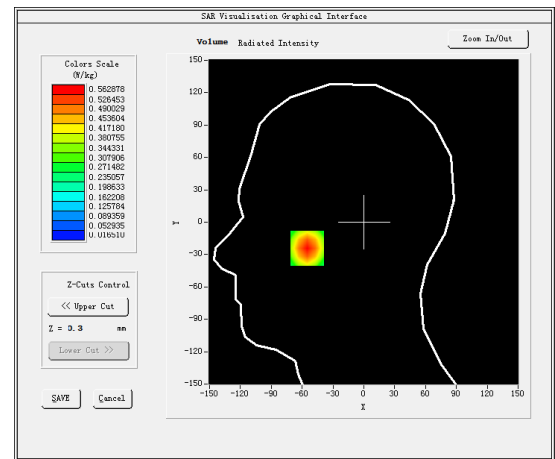
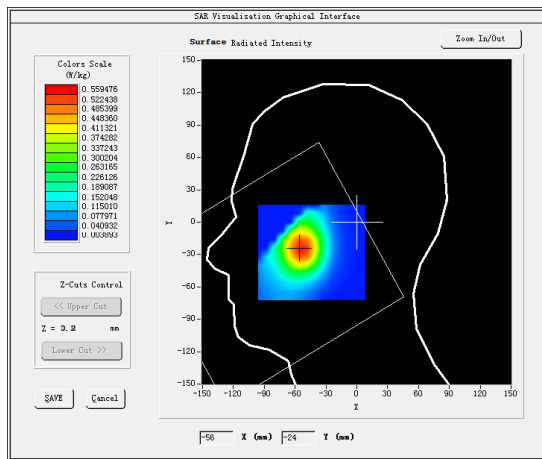
Test Mode: LTE Band 7, 1RB, High channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 13, 2022

Medium (liquid type)	HSL_2600
Frequency (MHz)	2560.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.540000
SAR 10g (W/Kg)	0.294408
SAR 1g (W/Kg)	0.529937
SURFACE SAR	VOLUME SAR





#18

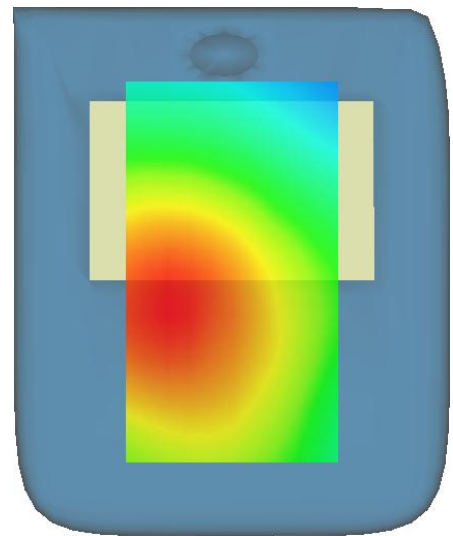
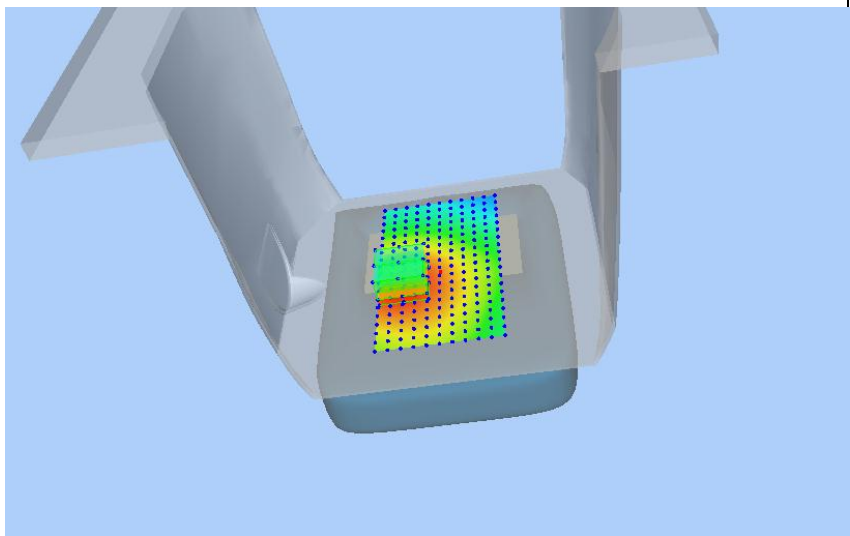
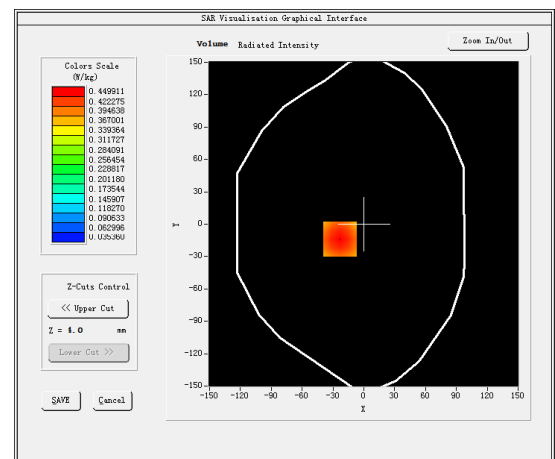
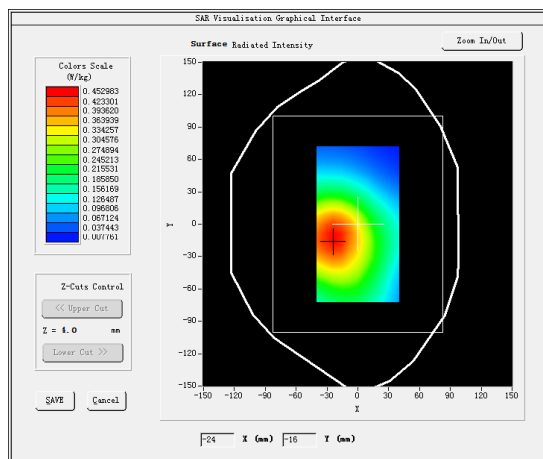
Test Mode: LTE Band 7, 1RB, High channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 13, 2022

Medium (liquid type)	HSL_2600
Frequency (MHz)	2560.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	0.250000
SAR 10g (W/Kg)	0.253734
SAR 1g (W/Kg)	0.431342
SURFACE SAR	VOLUME SAR





#19

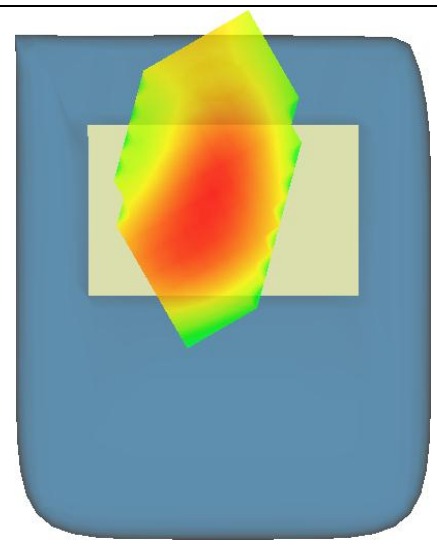
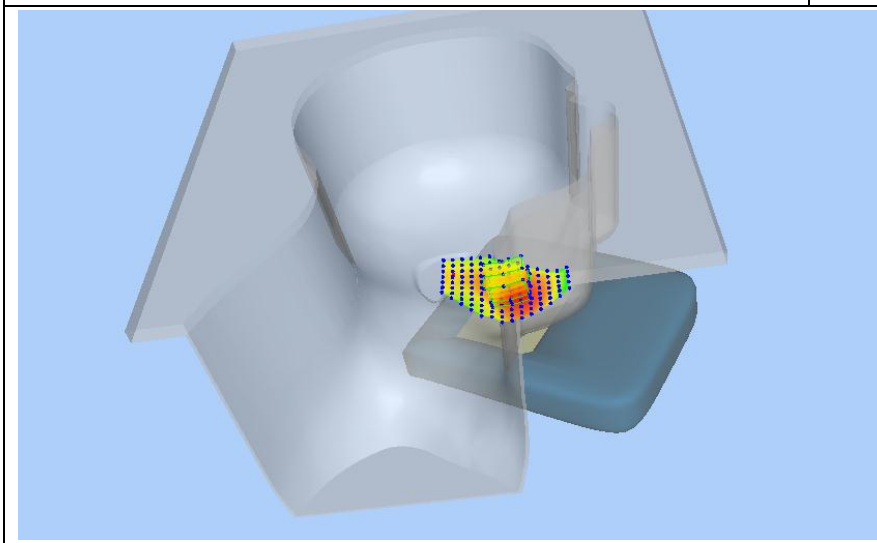
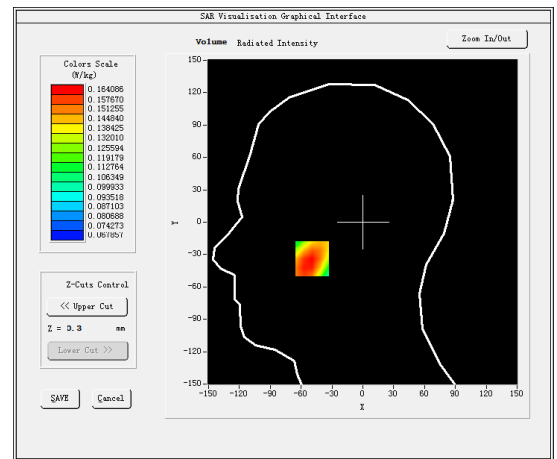
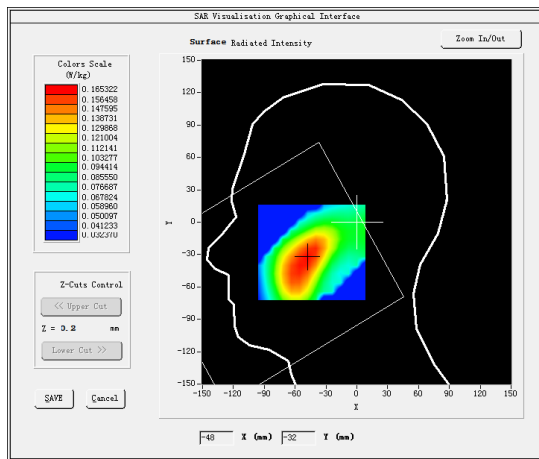
Test Mode: LTE Band 12, 1RB, Middle channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: May 31, 2022

Medium(liquid type)	HSL_750
Frequency (MHz)	707.5000
Relative permittivity (real part)	41.17
Conductivity (S/m)	0.88
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-1.380000
SAR 10g (W/Kg)	0.129798
SAR 1g (W/Kg)	0.160646
SURFACE SAR	VOLUME SAR





#20

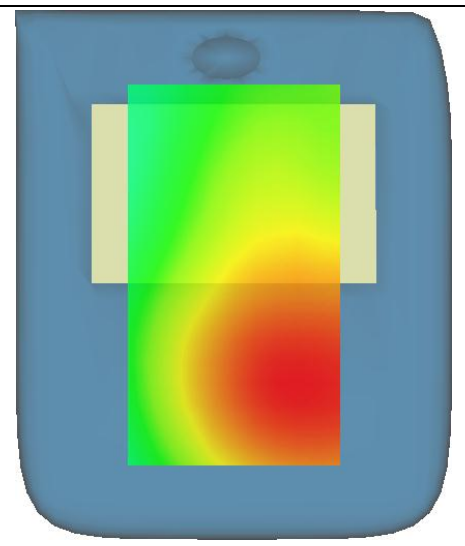
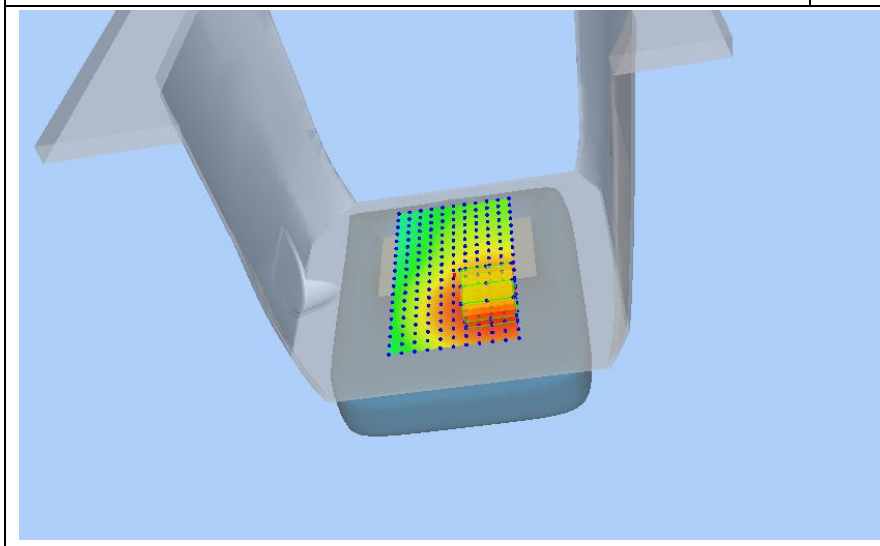
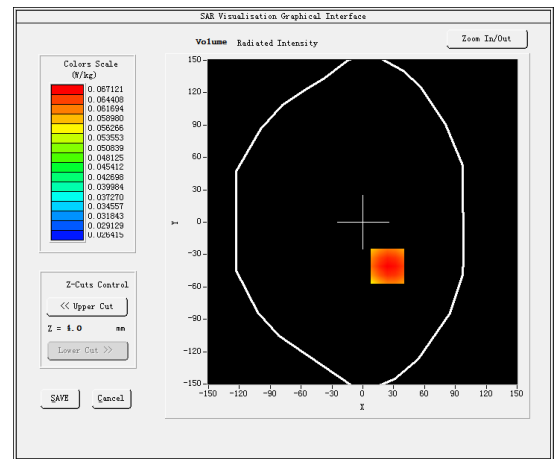
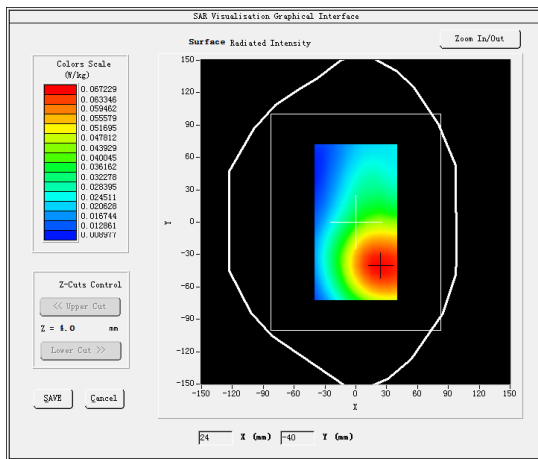
Test Mode: LTE Band 12, 1RB, Middle channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: May 31, 2022

Medium(liquid type)	HSL_750
Frequency (MHz)	707.5000
Relative permittivity (real part)	41.17
Conductivity (S/m)	0.88
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-2.110000
SAR 10g (W/Kg)	0.055884
SAR 1g (W/Kg)	0.069250
SURFACE SAR	VOLUME SAR





#21

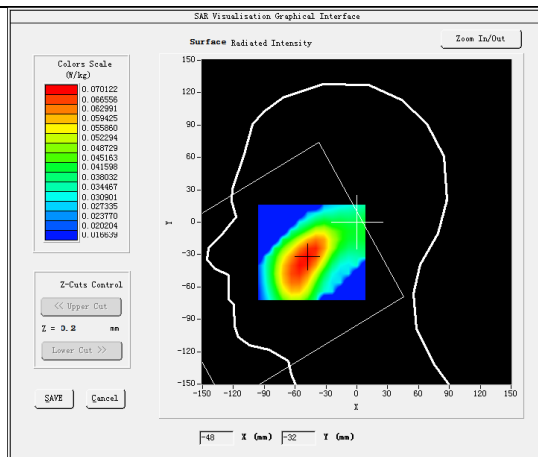
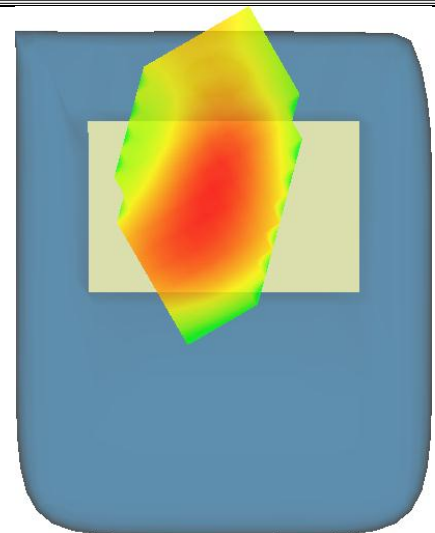
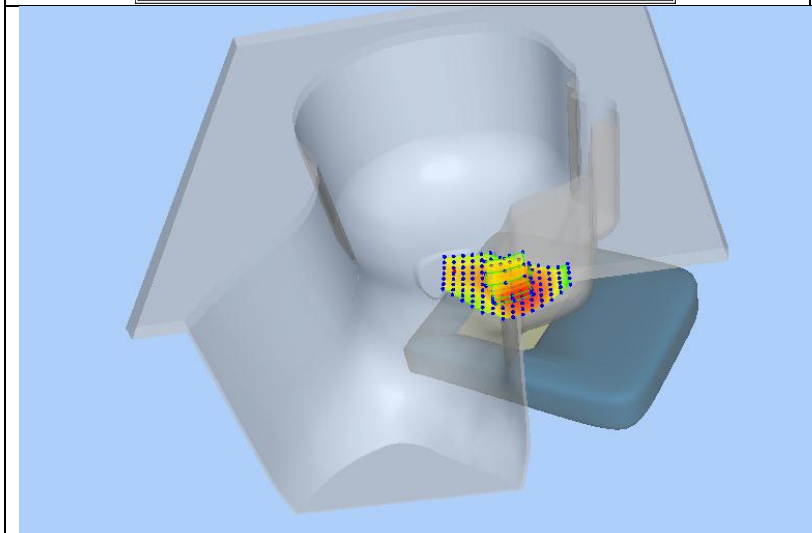
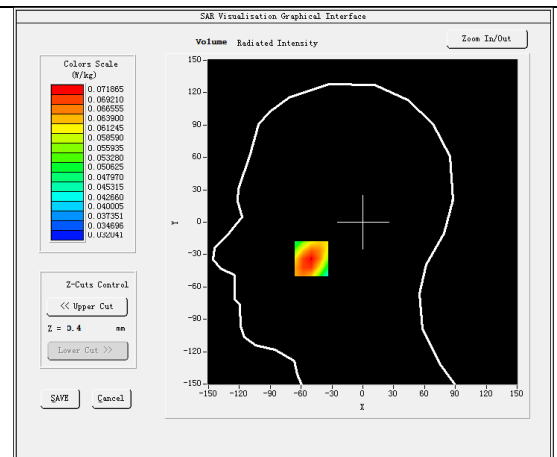
Test Mode: LTE Band 17, 1RB, Middle channel(Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: May 31, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	710.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.340000
SAR 10g (W/Kg)	0.058060
SAR 1g (W/Kg)	0.071540

SURFACE SAR**VOLUME SAR**



#22

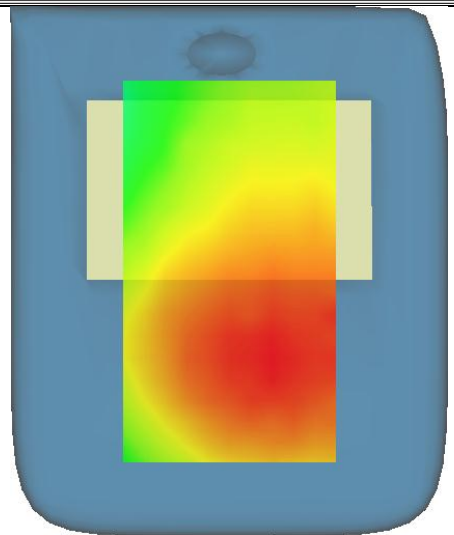
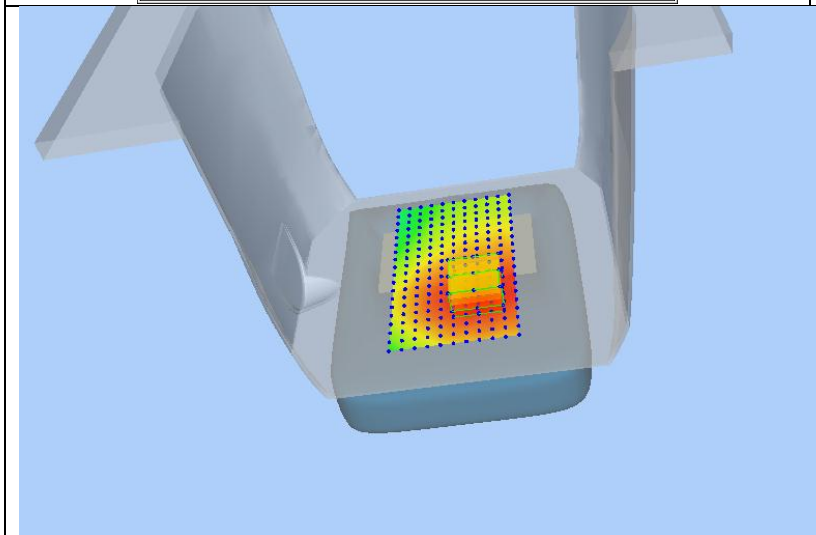
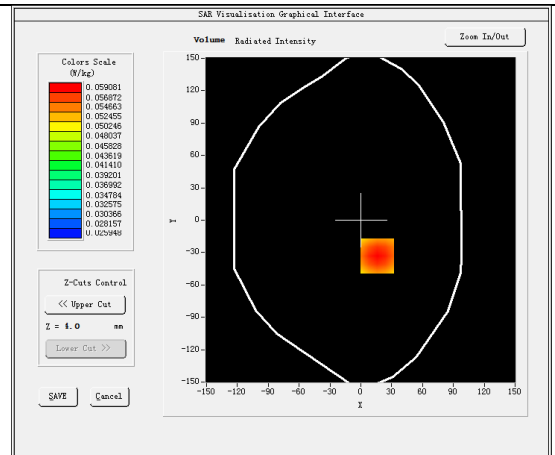
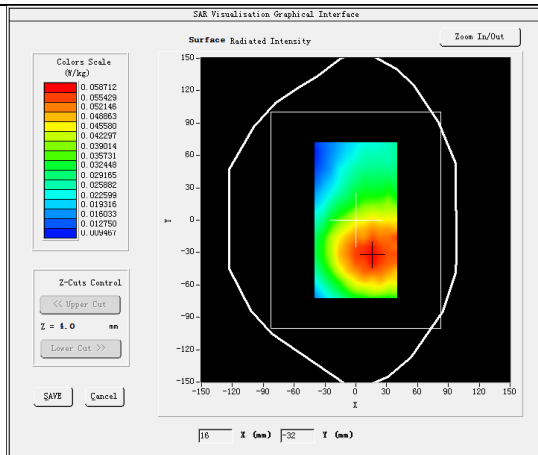
Test Mode: Hotspot LTE Band 17, 1RB, Middle channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: May 31, 2022

Medium(liquid type)	HSL _750
Frequency (MHz)	710.0000
Relative permittivity (real part)	55.40
Conductivity (S/m)	0.97
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.45
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	1.530000
SAR 10g (W/Kg)	0.050171
SAR 1g (W/Kg)	0.061004

SURFACE SAR**VOLUME SAR**



#23

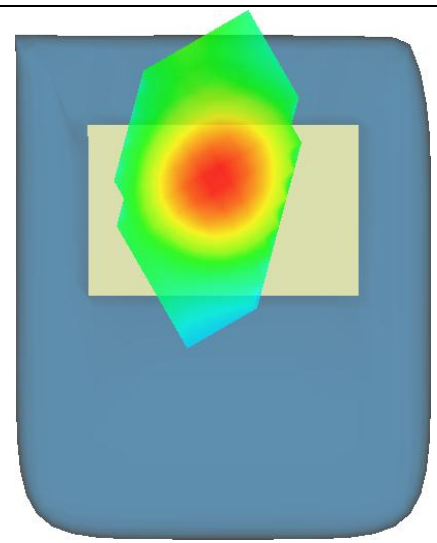
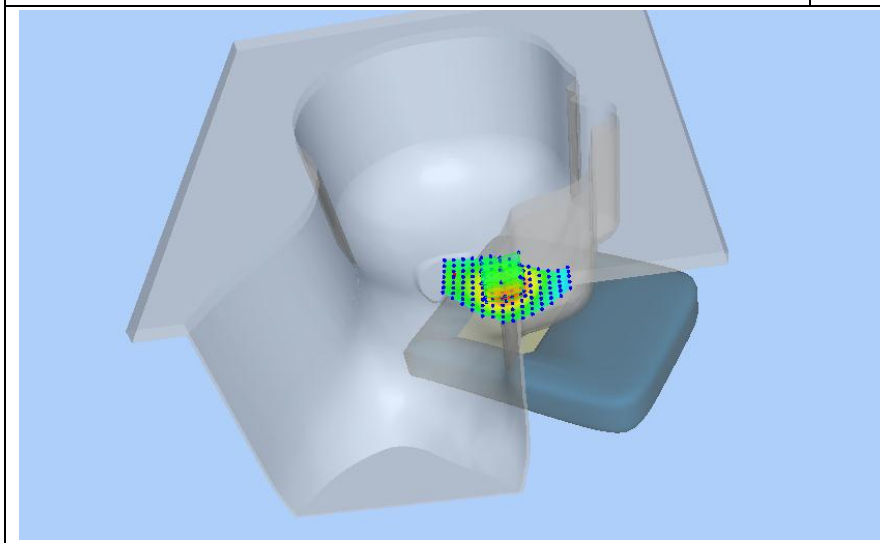
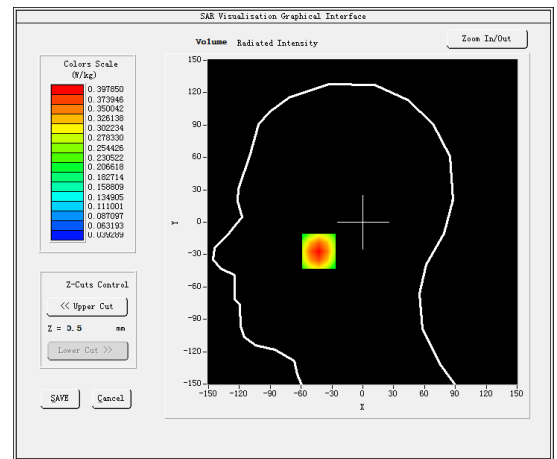
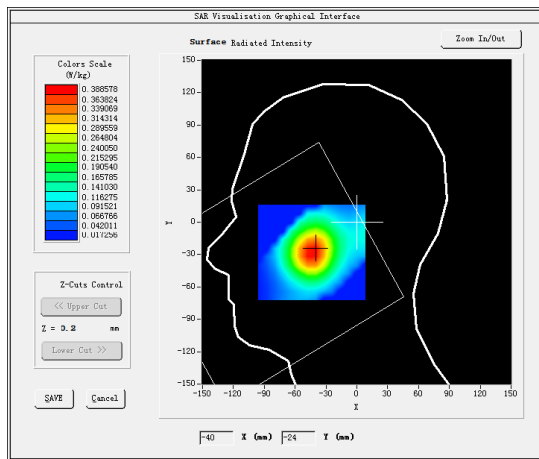
Test Mode: LTE Band 25, 1RB, Low channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 07, 2022

Medium(liquid type)	HSL _1900
Frequency (MHz)	1860.0000
Relative permittivity (real part)	53.62
Conductivity (S/m)	1.51
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.93
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.440000
SAR 10g (W/Kg)	0.234626
SAR 1g (W/Kg)	0.376425
SURFACE SAR	VOLUME SAR





#24

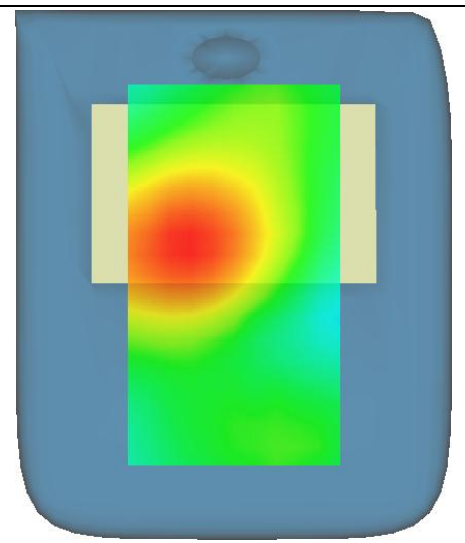
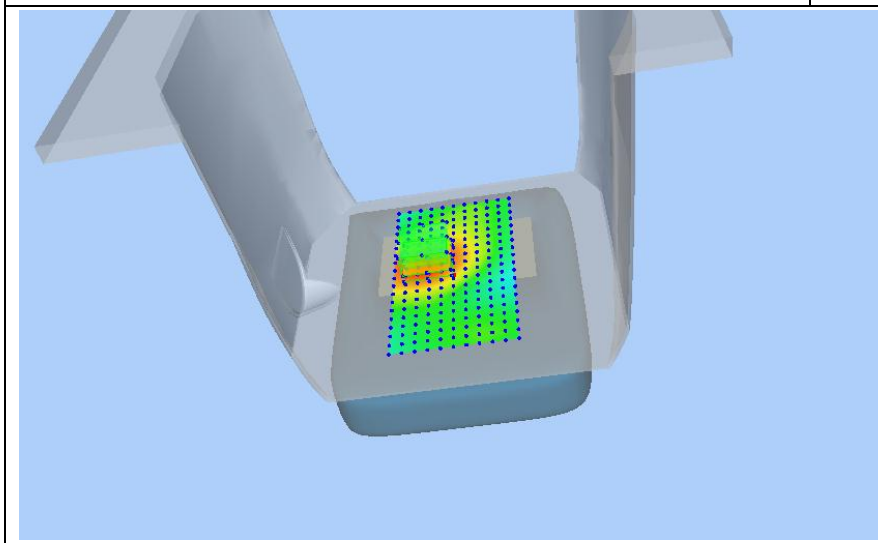
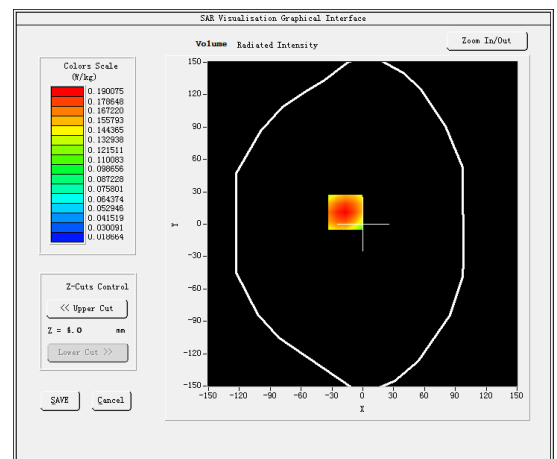
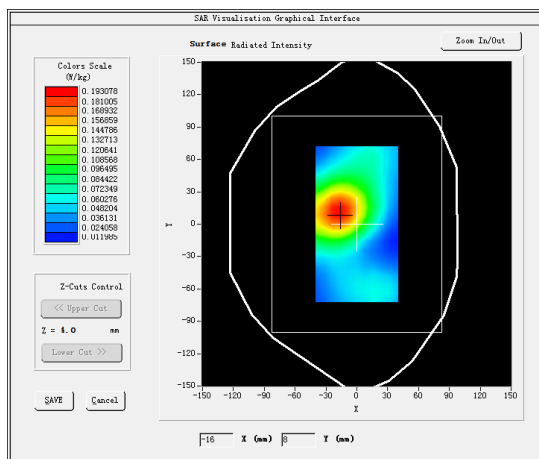
Test Mode: LTE Band 25, 1RB, Low channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 07, 2022

Medium(liquid type)	HSL _1900
Frequency (MHz)	1860.0000
Relative permittivity (real part)	53.62
Conductivity (S/m)	1.51
E-Field Probe	SN 31/17 EPGO324
Crest Factor	1.0
Conversion Factor	1.93
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.460000
SAR 10g (W/Kg)	0.115528
SAR 1g (W/Kg)	0.181448
SURFACE SAR	VOLUME SAR





#25

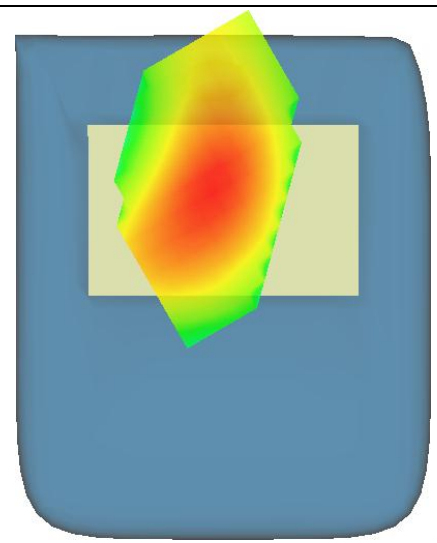
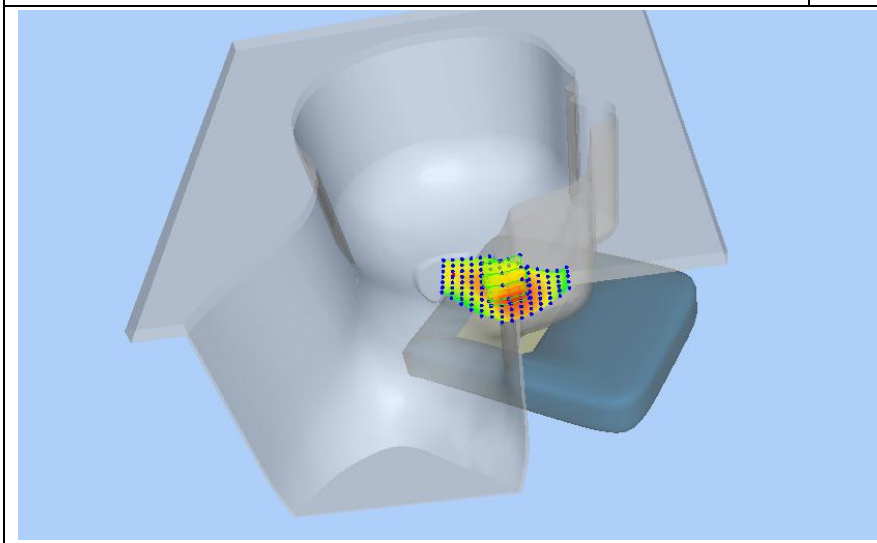
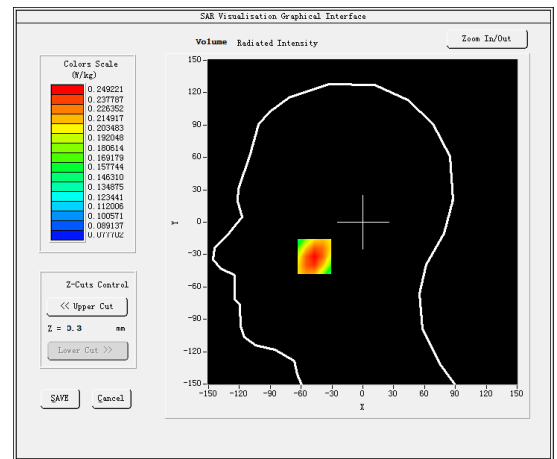
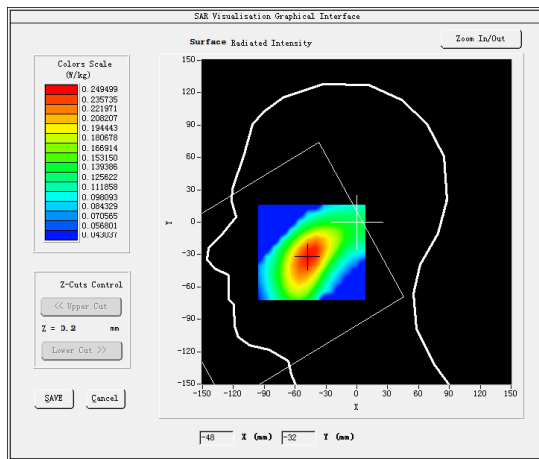
Test Mode: LTE Band 26, 1RB, Middle channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 02, 2022

Medium(liquid type)	HSL_835
Frequency (MHz)	831.5000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.89
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-2.920000
SAR 10g (W/Kg)	0.208356
SAR 1g (W/Kg)	0.285744
SURFACE SAR	VOLUME SAR





#26

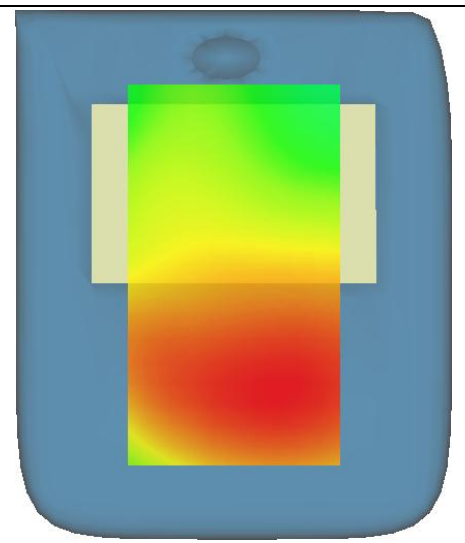
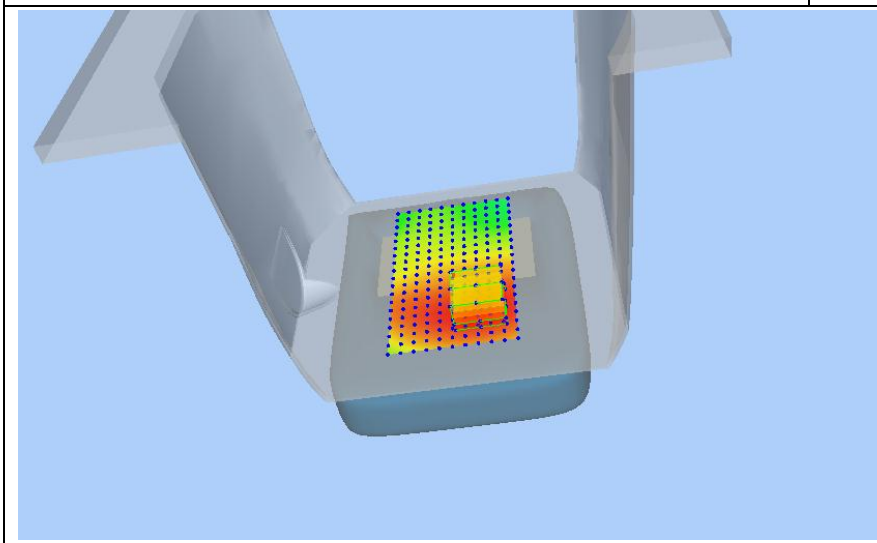
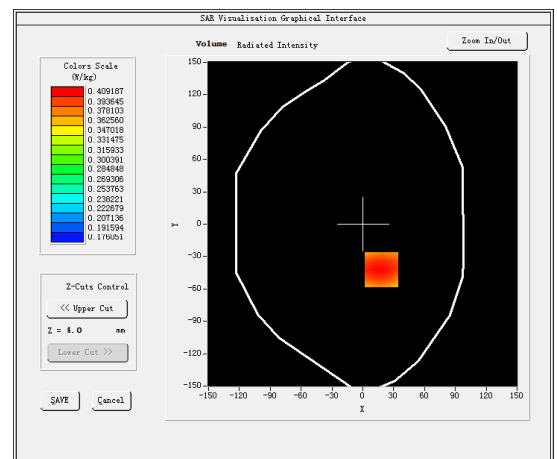
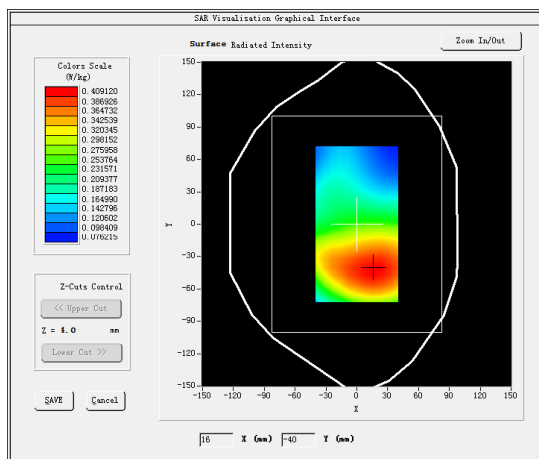
Test Mode: LTE Band 26, 1RB, Middle channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 02, 2022

Medium(liquid type)	HSL_835
Frequency (MHz)	831.5000
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.89
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.55
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.820000
SAR 10g (W/Kg)	0.344153
SAR 1g (W/Kg)	0.432568
SURFACE SAR	VOLUME SAR





#27

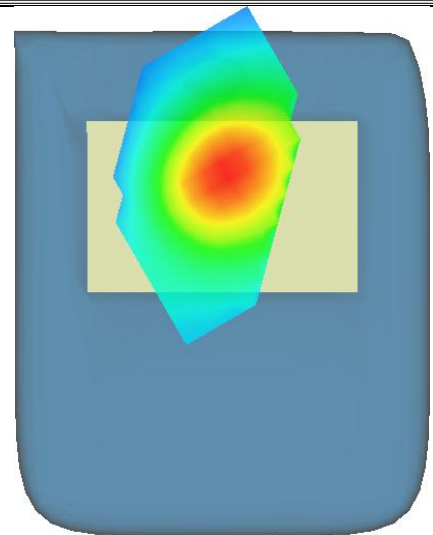
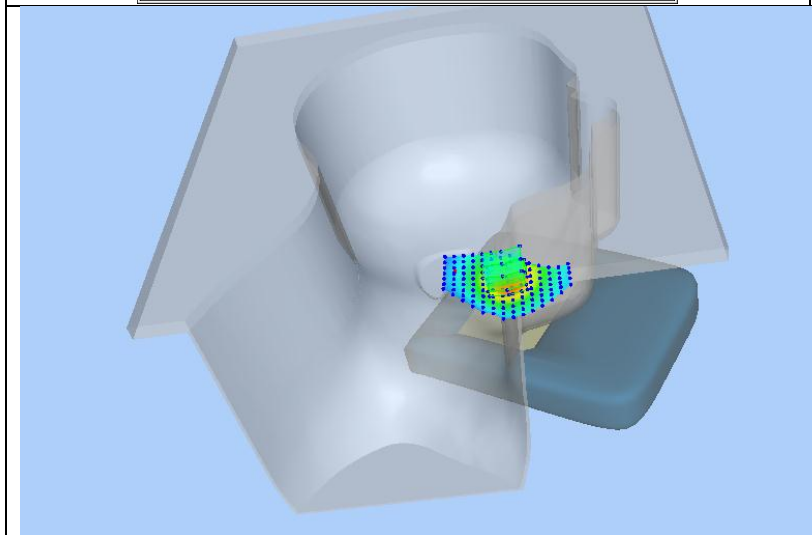
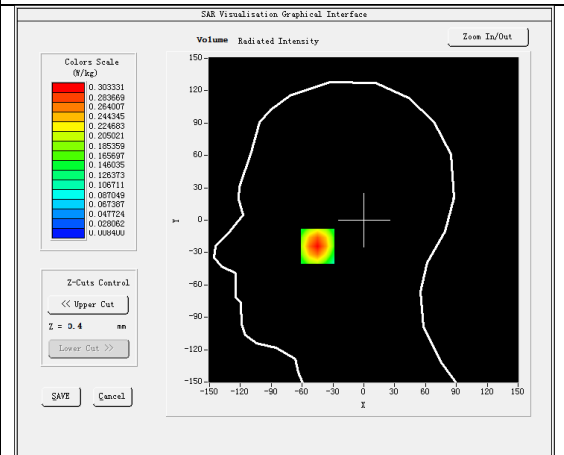
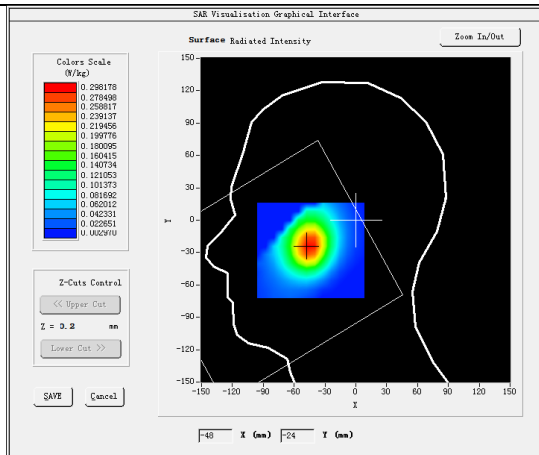
Test Mode: LTE Band 38, 1RB, Low channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 13, 2022

Medium(liquid type)	HSL_2600
Frequency (MHz)	2580.0000
Relative permittivity (real part)	40.33
Conductivity (S/m)	1.91
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-3.440000
SAR 10g (W/Kg)	0.156832
SAR 1g (W/Kg)	0.284661
SURFACE SAR	VOLUME SAR





#28

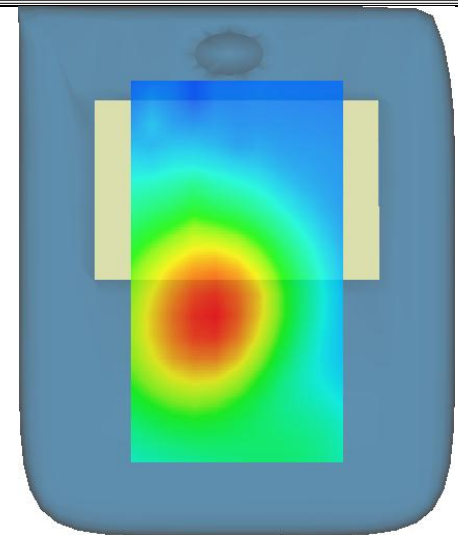
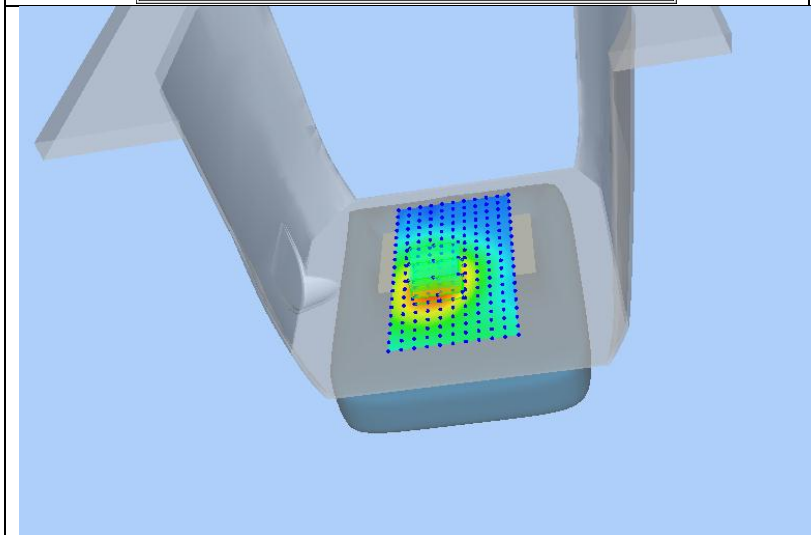
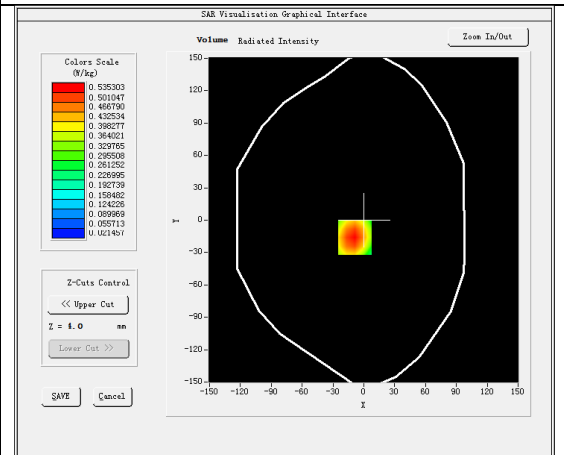
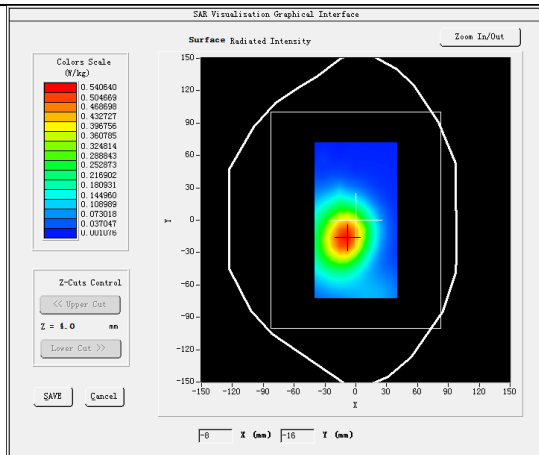
Test Mode: LTE Band 38, 1RB, Low channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 13, 2022

Medium(liquid type)	HSL_2600
Frequency (MHz)	2580.0000
Relative permittivity (real part)	40.38
Conductivity (S/m)	1.92
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	0.530000
SAR 10g (W/Kg)	0.284572
SAR 1g (W/Kg)	0.508037
SURFACE SAR	VOLUME SAR





#29

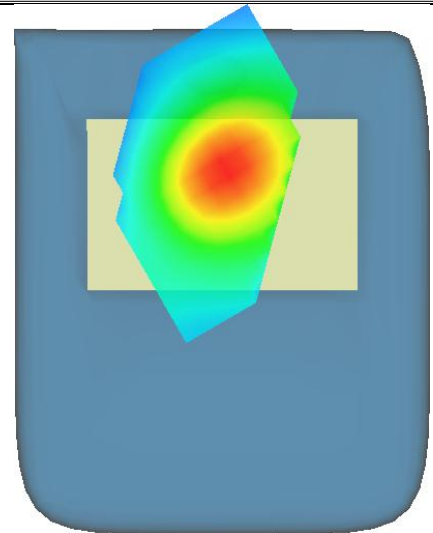
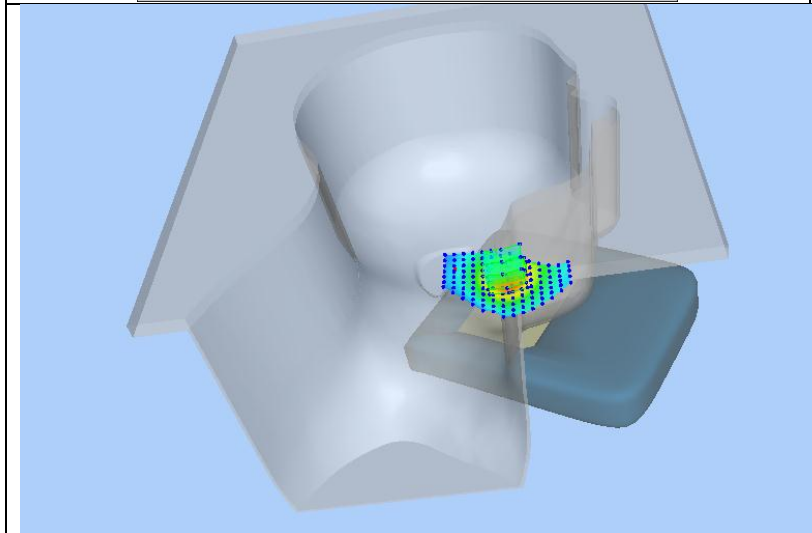
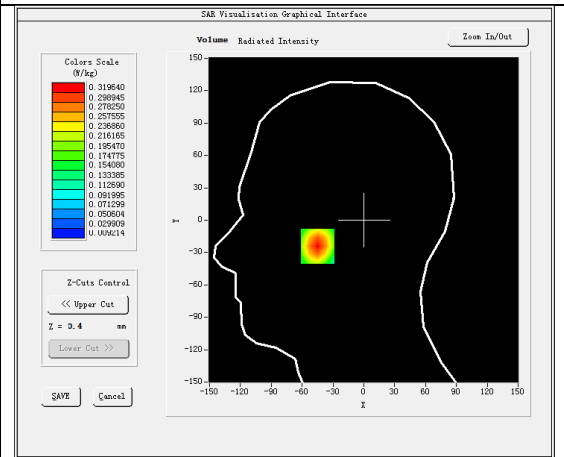
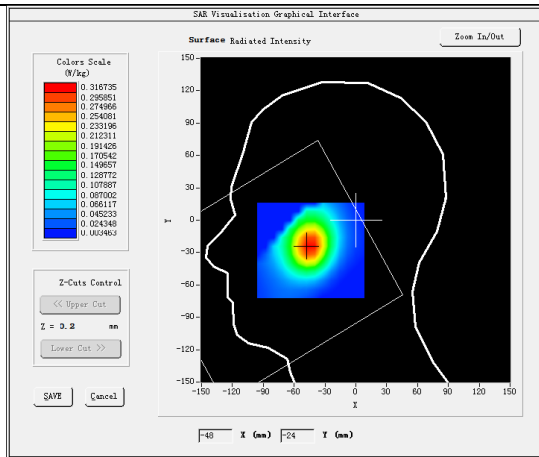
Test Mode: LTE Band 41, 1RB, High channel (Head Left Cheek)

Product Description: Tablet

Model: RT1

Test Date: June 13, 2022

Medium(liquid type)	HSL_2600
Frequency (MHz)	2680.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	4.210000
SAR 10g (W/Kg)	0.166910
SAR 1g (W/Kg)	0.299388
SURFACE SAR	VOLUME SAR





#30

Test Mode: LTE Band 41, 1RB, High channel (Body Rear Side)

Product Description: Tablet

Model: RT1

Test Date: June 13, 2022

Medium(liquid type)	HSL_2600
Frequency (MHz)	2680.0000
Relative permittivity (real part)	36.12
Conductivity (S/m)	4.70
E-Field Probe	SN 31/17 EPG0324
Crest Factor	1.0
Conversion Factor	1.89
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Variation (%)	-0.190000
SAR 10g (W/Kg)	0.383482
SAR 1g (W/Kg)	0.693655
SURFACE SAR	VOLUME SAR

