

SAR TEST REPORT

FCC ID: 2AKSAMOBULAA-S

Product: Mobile phone

Model No.: S1

Additional Model: Please refer to page 5

Trade Mark: MOBULAA

Report No.: TCT190614E013

Issued Date: Oct. 15, 2019

Issued for:

Shenzhen YLWD Technology Co., Ltd
RM1002.A.Haisong BLD.RD, Tairan. FuTian District, Shenzhen, China

Issued By:

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1. Test Certification

Report No.: TCT190614E013

Product:	Mobile phone
Model No.:	S1
Additional Model No.	Please refer to page 5
Trade Mark:	MOBULAA
Applicant:	Shenzhen YLWD Technology Co., Ltd
Address:	RM1002.A.Haisong BLD.RD, Tairan. FuTian District, Shenzhen, China
Manufacturer:	Shenzhen YLWD Technology Co., Ltd
Address:	RM1002.A.Haisong BLD.RD, Tairan. FuTian District, Shenzhen, China
Date of Test:	Jun. 17, 2019 – Oct. 14, 2019
SAR Max. Values:	0.18 W/Kg (1g) for head; 0.75W/Kg (1g) for Body-worn; 1.09 W/Kg (1g) for Hotspot;
Applicable Standards:	FCC 47 CFR § 2.1093 IEEE1528-2013:Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques KDB447498 D01:General RF Exposure Guidance v06 KDB865664 D01:SAR measurement 100MHz to 6GHz v01r04 KDB865664 D02:RF Exposure Reporting v01r02. KDB941225 D01:3G SAR Procedures v03r01 KDB248227 D01:802.11 wi-fi SAR v02r02 KDB941225 D05:SAR for LTE devices v02r05 KDB941225 D06:Hotspot Mode v02r01 KDB941225 D07:UMPC Mini Tablet v01r02 KDB690783 D01:SAR Listings on Grant v01r03

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Laron Mo	Date:	Oct. 14, 2019	
Reviewed By:	Aaron Mo Bery There	Date:	Oct. 15, 2019	
Approved By:	Beryl Zhao	Date:	Oct. 15, 2019	
(0)	Tomsin	_	(6)	_

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2. Facilities and Accreditations

2.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen Tongce Testing Lab.. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

2.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

2.3. Environment Condition:

Temperature:	18°C ~25°C		
Humidity:	35%~75% RH		
Atmospheric Pressure:	1011 mbar	(,C)	(,c')

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3. Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:

<Highest Reported standalone SAR Summary> Reported SAR Highest Reported **Exposure Position** Frequency Band **Equipment Class** (W/kg) SAR (W/kg) 0.08 **GSM 850 GSM 1900** 0.09 CDMA BC0 0.01 WCDMA Band II 0.18 WCDMA Band IV 0.07 WCDMA Band V 0.05 LTE Band 2 0.13 LTE Band 4 **PCE** 0.08 Head 0.18 1-g SAR LTE Band 5 0.10 LTE Band 7 0.02 LTE Band 12 0.03 LTE Band 13 0.03 LTE Band 17 0.02 LTE Band 25 0.16 LTE Band 41 0.01 WLAN 2.4 GHz DTS 0.01 **GSM 850** 0.35 **GSM 1900** 0.54 CDMA BC0 0.06 WCDMA Band II 0.55 WCDMA Band IV 0.42 WCDMA Band V 0.15 LTE Band 2 0.33 Body-worn LTE Band 4 **PCE** 0.33 0.75 1-g SAR LTE Band 5 0.50 (10 mm Gap) LTE Band 7 0.07 LTE Band 12 0.12 LTE Band 13 0.12 LTE Band 17 0.12 LTE Band 25 0.75 LTE Band 41 0.03

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0.03

DTS

WLAN 2.4 GHz



	GSM 850	0.39		
	GSM 1900	1.09		
	CDMA BC0	0.06		
	WCDMA Band II	1.06		
	WCDMA Band IV	0.57		
	WCDMA Band V	0.15	PCE	
	LTE Band 2	0.70		1.09
Hotspot	LTE Band 4	0.68		
1-g SAR (10 mm Gap)	LTE Band 5	0.56		
(10 mm Cap)	LTE Band 7	0.09		
	LTE Band 12	0.12		
	LTE Band 13	0.09		
	LTE Band 17	0.12		
	LTE Band 25	0.76		
	LTE Band 41	0.05		
	WLAN 2.4 GHz	0.05	DTS	

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Highest Reported Simultaneous Transmission SAR (W/kg)
Head 1-g SAR	LTE Band 25 + WIFI5G	0.55
Body-worn 1-g SAR (10 mm Gap)	LTE Band 25 + WIFI5G	1.14
Hotspot 1-g SAR (10 mm Gap)	GSM 1900 + WIFI5G	1.48

Note

- 1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
- 2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.



4. EUT Description

	TESTING CENTRE TECHNOLOGY	Report No.: 101190014E015

Product Name:	Mobile phone		
Model :	S1		
Additional Model:	S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, T4001, T4002, T4003, T4004, T4005, T4501, T4502, T4503, T4504, T4505, T5001, T5002, T5003, T5004, T5005, T5501, T5502, T5503, T5504, T5505, T6001, T6002, T6003, T6004, T6005, F4001, F4002, F4003, F4004, F4005, F4501, F4502, F4503, F4504, F4505, F5001, F5002, F5003, F5004, F5005, F5501, F5502, F5503, F5504, F5505, F6001, F6002, F6003, F6004, F6005, K4001, K4002, K4003, K4004, K4005, K4501, K4502, K4503, K4504, K4505, K5001, K5002, K5003, K5004, K5005, K5501, K5502, K5503, K5504, K5505, K6001, K6002, K6003, K6004, K6005, A4001, A4002, A4003, A4004, A4005, A4501, A4502, A4503, A4504, A4505, A5001, A5002, A5003, A5004, A5005, A5501, A5502, A5503, A5504, A5505, A6001, A6002, A6003, A6004, A6005, E4001, E4002, E4003, E4004, E4005, E4501, E4502, E4503, E4504, E4505, E5001, E5002, E5003, E5004, E5005, E5501, E5502, E5503, E5504, E5505, E6001, E6002, E6003, E6004, E6005, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10		
Trade Mark:	MOBULAA		
Power Supply:	Rechargeable Li-ion Battery DC3.7V		
	2G		
Operation Band:	GSM850, GSM1900		
Supported type:	GSM/GPRS/EGPRS		
Power Class:	GSM850:Power Class 5; GSM1900:Power Class 0		
Modulation Type:	GMSK for GSM/GPRS; 8PSK for EGPRS		
GSM Release Version:	R99		
GPRS Multislot Class:	12		
EGPRS Multislot Class:	12		
	CDMA		
Wireless Technology And	Tx: CDMA BC0: 824.70 MHz ~ 848.31 MHz		
Frequency Range:	Rx: CDMA BC0: 869.70 MHz ~ 893.31 MHz		
Mode:	CDMA2000: 1xRTT 3G		
Operation Band:	FDD Band II & FDD Band IV & FDD Band V		
Power Class:	Power Class 3		
Modulation Type:	QPSK for WCDMA/HSDPA/HSUPA		
WCDMA Release Version:	R99		
HSDPA Release Version:	Release 5		
HSUPA Release Version:	Release 6		
DC-HSUPA Release Version:	Not Supported		
DO-HOUT A NEIGASE VEISIOII.	LTE		
Operation Band:	LTE Band 2 & LTE Band 4 & LTE Band 5 & LTE Band 7 & LTE Band 12 & LTE Band 13 & LTE Band 17 & LTE Band 25 & LTE Band 41		
Power Class:	Power Class 3		
Modulation Type:	QPSK &16-QAM for LTE		



TESTING CENTRE TECHNOLOGY	Report No.: TCT190614E01
	Wi-Fi 2.4G
Supported type:	802.11b/802.11g/802.11n
Madelation	802.11b: DSSS
Modulation:	802.11g/802.11n:OFDM
Out and the state of the state	802.11b/802.11g/802.11n(HT20):2412MHz~2462MHz;
Operation frequency:	802.11n(HT40):2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(HT20):11; 802.11n(HT40):7
Channel separation:	5MHz
	Bluetooth
Bluetooth Version:	Supported 5.0
Modulation:	GFSK(1Mbps) , π/4-DQPSK(2Mbps) , 8-DPSK(3Mbps)
Operation frequency:	2402MHz~2480MHz
Channel number:	79/40
Channel separation:	1MHz/2MHz
	WiFi 5G
	Band 1: 5180 MHz -5240 MHz
Operation Frequency:	Band 3: 5745 MHz -5825 MHz
	802.11a: 20MHz
Channel Bandwidth:	802.11n: 20MHz, 40MHz
	802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK



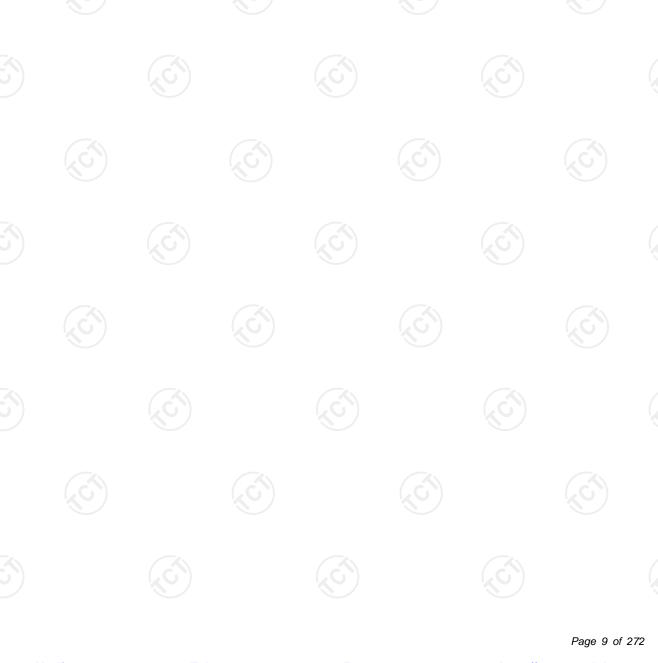
RF Exposure Limit

Type Exposure	SAR (W/kg)		
Type Exposure	Uncontrolled Exposure Limit		
Spatial Peak SAR (averaged over any 1 g of tissue)	1.60		
Spatial Peak SAR (hands/wrists/feet/ankles averaged over 10g)	4.00		
Spatial Peak SAR (averaged over the whole body)	0.08		

Note:

- The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- 2.
- The Spatial Average value of the SAR averaged over the whole body.

 The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the 3. shape of a cube) and over the appropriate averaging time.





6. SAR Measurement System Configuration

6.1. SAR Measurement 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.

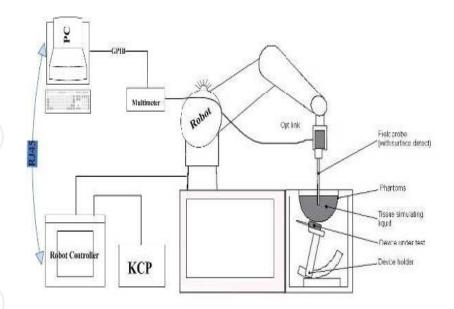
OPENSAR software Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

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.



KUKA SAR Test Sysytem Configuration



6.2. E-field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by MVG).

The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

This probe has a built in optical surface detection system to prevent from collision with phantom.

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.

Device Type COMOSAR DOSIMETRIC E FIELD PROBE	
Manufacturer	MVG
Model	SSE5
Serial Number	SN 07/15 EP248
Frequency Range of Probe	0.45 GHz-3GHz
Resistance of Three Dipoles at Connector	Dipole 1:R1=0.218M Ω Dipole 2:R3=0.217M Ω Dipole 3:R3=0.215M Ω



Photo of E-Field Probe

6.3. Phantom

The SAM Phantom SAM120 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 P1528 and CENELEC IEC 62209-1, IEC 62209-2:2010.

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.

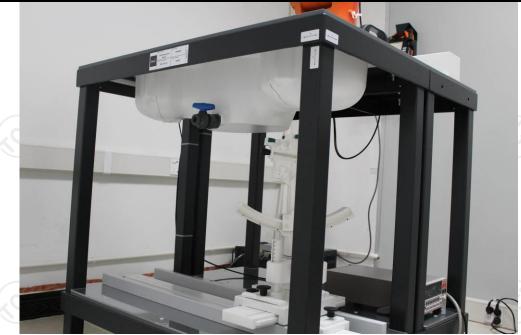
Name: COMOSAR IEEE SAM PHANTOM

S/N: SN 19/15 SAM 120 Manufacture: MVG



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SAM Twin Phantom

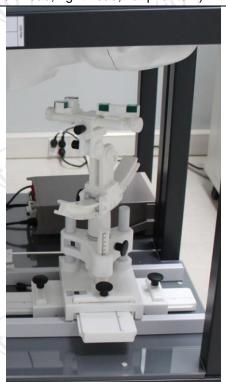
6.4. Device Holder

In combination with the Generic Twin Phantom SAM120, 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 and CENELEC specifications.

The device holder can be locked at different phantom locations (left head, right head, flat phantom).



COMOSAR Mobile phone positioning system





6.5. 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	0

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 millimeter 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: $Vi = Ui + Ui2 \cdot cf/dcpi$

```
With Vi = compensated signal of channel i
                                                (i = x, y, z)
      Ui = input signal of channel i
                                         (i = x, y, z)
      cf = crest factor of exciting field
                                              (MVG parameter)
      dcpi = diode compression point
                                             (MVG parameter)
```

E-field probes: Ei = (Vi / Normi · ConvF)1/2

Εi

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

```
H-field probes: Hi = (Vi)1/2 \cdot (ai0 + ai1 f + ai2f2)/f
With Vi
                        = compensated signal of channel i
                                                                 (i = x, y, z)
                  = sensor sensitivity of channel i
      Normi
                                                                 (i = x, y, z)
                  [mV/(V/m)2] for E-field Probes
                  = sensitivity enhancement in solution
      ConvF
                 = sensor sensitivity factors for H-field probes
      aij
                       = carrier frequency [GHz]
                        = electric field strength of channel i in V/m
```

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= magnetic field strength of channel i in A/m



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

Etot = (Ex2+ EY2+ Ez2)1/2

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

SAR = (Etot) $2 \cdot \sigma / (\rho \cdot 1000)$

with SAR = local specific absorption rate in mW/g

Etot = 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. The power flow density is calculated assuming the excitation field to be a free space field.

6.6. Position of the wireless device in relation to the phantom

Handset Reference Points

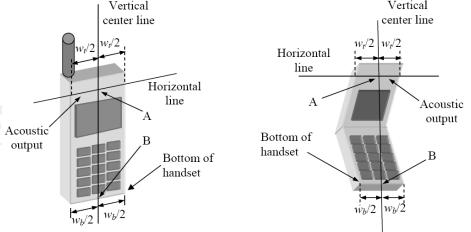
Ppwe = Etot2 / 3770 or Ppwe = $Htot2 \cdot 37.7$

With Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m





Wt Width of the handset at the level of the acoustic

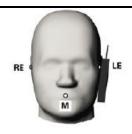
Wb Width of the bottom of the handset

A Midpoint of the width wt of the handset at the level of the acoustic output

B Midpoint of the width wb of the bottom of the handset

Positioning for Cheek / Touch





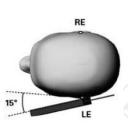




Positioning for Ear / 15° Tilt







Body Worn Accessory Configurations

To position the device parallel to the phantom surface with either keypad up or down.

To adjust the device parallel to the flat phantom.

To adjust the distance between the device surface and the flat phantom to 15mm or holster surface and the flat phantom to 0 mm.





Illustration for Body Worn Position

Ireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets (L x W >

9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



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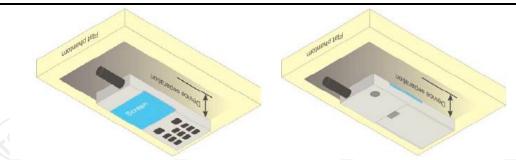
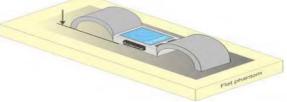


Illustration for Hotspot Position

Limb-worn device

A limb-worn device is a unit whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode). It is similar to a body-worn device. Therefore, the test positions of 6.1.4.4 also apply. The strap shall be opened so that it is divided into two parts as shown in Figure 9. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom.

If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna.



Test position for limb-worn devices





6.7. Tissue Dielectric Parameters

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The liquid used for the frequency range of 100MHz-6G consisted of water, sugar, salt and Cellulose. The liquid has been previously proven to be suited for worst-case. The following Table shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209. The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the determine of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials

Targets for tissue simulating liquid

Frequency (MHz)	Liquid Type	Liquid Type (σ)	± 5% Range	Permittivity (ε)	± 5% Range
300	Head	0.87	0.83~0.91	45.3	43.04~47.57
450	Head	0.87	0.83~0.91	43.5	41.33~45.68
835	Head	0.90	0.86~0.95	41.5	39.43~43.58
900	Head	0.97	0.92~1.02	41.5	39.43~43.58
1800-2000	Head	1.40	1.33~1.47	40.0	38.00~42.00
2450	Head	1.80	1.71~1.89	39.2	37.24~41.16
2600	Head	1.96	1.86~2.06	39.0	37.05~40.95
3000	Head	2.40	2.28~2.52	38.5	36.58~40.43
5800	Head	5.27	5.01~5.53	35.3	33.54~37.07
300	Body	0.92	0.87~0.97	58.2	55.29~61.11
450	Body	0.94	0.89~0.99	56.7	53.87~59.54
835	Body	0.97	0.92~1.02	55.2	52.44~57.96
900	Body	1.05	1.00~1.10	55.0	52.25~57.75
1800-2000	Body	1.52	1.44~1.60	53.3	50.64~55.97
2450	Body	1.95	1.85~2.05	52.7	50.07~55.34
2600	Body	2.16	2.05~2.27	52.5	49.88~55.13
3000	Body	2.73	2.60~2.87	52.0	49.40~54.60
5800	Body	6.00	5.70~6.30	48.2	45.79~50.61

($\varepsilon r = relative permittivity$, $\sigma = conductivity and <math>\rho = 1000 \text{ kg/m}3$)





6.8. Tissue-equivalent Liquid Properties

Test Date dd/mm/yy	Temp ℃	Tissue Type	Measured Frequency (MHz)	εr	σ(s/m)	Dev εr(%)	Dev σ(%)
			825	41.43	0.86	-0.17	-4.44
06/17/2019	22 ℃	835H	835	41.42	0.87	-0.19	-3.33
			850	40.39	0.88	-2.67	-2.22
			1710	39.11	1.34	-2.23	-4.29
06/26/2010	22 ℃	400011	1720	39.10	1.35	-2.25	-3.57
06/26/2019	22 (1800H	1750	39.08	1.37	-2.30	-2.14
			1800	39.07	1.38	-2.33	-1.43
			1850	39.11	1.34	-2.23	-4.29
07/40/0040	/0040	400011	1880	39.10	1.35	-2.25	-3.57
07/18/2019	22 ℃	1900H	1900	39.08	1.37	-2.30	-2.14
			1910	39.07	1.38	-2.33	-1.43
	07/31/2019 22 °C		2410	37.84	1.79	-3.47	-0.56
			2435	37.85	1.81	-3.44	0.56
07/31/2019		1/2019 22 2	2450H	2450	37.82	1.83	-3.52
			2460	37.80	1.84	-3.57	2.22
	08/08/2019 22°C		2505	38.86	1.93	-0.36	-1.53
08/08/2019		2600H	2535	38.85	1.92	-0.39	-2.04
	C		2560	38.89	1.90	-0.28	-3.06
			825	55.26	0.93	0.11	-4.12
06/17/2019	22 ℃	835B	835	55.24	0.94	0.07	-3.09
00,11,2010	0	0002	850	55.21	0.97	0.02	0.00
			1710	53.34	1.49	0.08	-1.97
			1720	53.32	1.50	0.04	-1.32
06/26/2019	22 ℃	1800B	1750	53.31	1.51	0.02	-0.66
			1800	53.29	1.53	-0.02	0.66
			1850	53.34	1.49	0.08	-1.97
(40)	0		1880	53.32	1.50	0.04	-1.32
07/18/2019	22 ℃	1900B	1900	53.31	1.51	0.02	-0.66
			1910	53.29	1.53	-0.02	0.66
			2410	54.65	1.97	3.70	1.03
)	22 °C 245		2435	54.63	1.98	3.66	1.54
07/31/2019		2450B	2450	54.62	2.01	3.64	3.08
			2460	54.59	2.03	3.59	4.10
			2505	51.96	2.10	-1.02	-2.78
08/08/2019	22 ℃	2600B	2535	52.01	2.11	-0.93	-2.31
			2560	52.13	2.13	-0.70	-1.39

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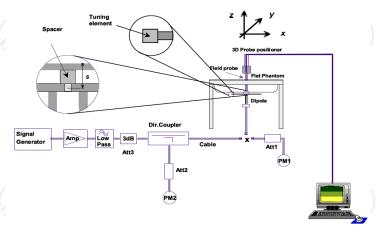
6.9. System Check

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The SAR system must be validated against its performance specifications before it is deployed. When SAR probe and system component or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such component. Reference dipoles are used with the required tissue-equivalent media for system validation.

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

System check is performed regularly on all frequency bands where tests are performed with the OPENSAR system.



System Check Set-up

Verification Results

Frequency Liquid (MHz) Type		Measured Value in 100mW (W/kg)			Normalized to 1W (W/kg)		Target Value (W/kg)		Deviation (%)	
(IVITIZ)	Туре	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	
835	Head	0.89	0.57	8.90	5.70	9.53	6.12	-6.61	-6.86	
1800	Head	3.75	2.20	37.53	21.98	37.67	20.23	-0.37	8.65	
1900	Head	3.58	1.90	35.80	19.00	39.26	20.49	-8.81	-7.27	
2450	Head	4.99	2.36	49.90	23.60	53.26	24.15	-6.31	-2.28	
2600	Head	5.41	2.43	54.14	24.30	54.31	24.14	-0.31	0.66	
835	Body	0.95	0.63	9.50	6.30	9.62	6.44	-1.25	-2.17	
1800	Body	3.78	2.05	37.79	20.46	37.69	20.57	0.27	-0.54	
1900	Body	3.77	1.99	37.70	19.90	38.71	20.53	-2.61	-3.07	
2450	Body	5.07	2.42	50.70	24.16	50.63	23.40	0.14	3.25	
2600	Body	5.37	2.38	53.65	23.81	53.26	23.89	0.73	-0.33	

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



7. Measurement Procedure

Conducted power measurement

For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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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 or spectrum analyser, and measure WLAN/BT output power.

Conducted power measurement

Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.

Place the EUT in positions as Appendix B demonstrates.

Set scan area, grid size and other setting on the MVG software.

Measure SAR results for the highest power channel on each testing position.

Find out the largest SAR result on these testing positions of each band.

Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

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

Power reference measurement Area scan Zoom scan Power drift measurement

Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The MVG software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages: Extraction of the measured data (grid and values) from the Zoom Scan.

Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).

Generation of a high-resolution mesh within the measured volume.

Interpolation of all measured values form the measurement grid to the high-resolution grid

Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

Calculation of the averaged SAR within masses of 1g and 10g.

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Power Reference Measurement

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

Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

quotou bolow.						
			≤ 3 GHz	> 3 GHz		
Maximum distance fro (geometric center of pr		measurement point rs) to phantom surface	$5 \text{ mm} \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$		
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan	Maximum zoom scan spatial resolution: Δxzoom, Δyzoom			$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$		
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δzz _{com} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz}: \le 3 \text{ mm}$ $4 - 5 \text{ GHz}: \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \le 2 \text{ mm}$		
	grid \[\Delta z_{Zoom}(n>1): \] between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1) \text{ mm}$			
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.

Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

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^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation 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.



SAR Averaged Methods

In MVG, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

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Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm

Power Drift Monitoring

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

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

Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100KHz to 6GHz ,when the highest measurement 1-g SAR within a frequency band is <1.5W/kg, the extensive SAR measurement uncertainty analysis described IEEE Std 1528-2013 is not required in SAR report submitted for equipment approval.



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8. Conducted Output Power

Band: GSM 850	Measu	red Power	(dBm)		Averaged Power (dBm)			
Channel	128	190	251	Calculation (dB)	128	190	251	
Frequency	824.2	836.6	848.8	,	824.2	836.6	848.8	
GSM (GMSK, Voice)	33.80	33.85	33.83	-9.03	24.77	24.82	24.80	
GPRS (GMSK, 1-slot)	33.35	33.46	33.42	-9.03	24.32	24.43	24.39	
GPRS (GMSK, 2-slot)	32.62	32.67	32.63	-6.02	26.6	26.65	26.61	
GPRS (GMSK, 3-slot)	31.70	31.79	31.61	-4.26	27.44	27.53	27.35	
GPRS (GMSK, 4-slot)	30.57	30.72	30.63	-3.01	27.56	27.71	27.62	
EGPRS (GMSK, 1-slot)	29.18	29.21	29.19	-9.03	20.15	20.18	20.16	
EGPRS (GMSK, 2-slot)	28.75	28.84	28.75	-6.02	22.73	22.82	22.73	
EGPRS (GMSK, 3-slot)	27.90	28.04	27.98	-4.26	23.64	23.78	23.72	
EGPRS (GMSK, 4-slot)	27.07	27.12	26.92	-3.01	24.06	24.11	23.91	

Note:

- 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) => -9.03dB
 - 2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB
 - 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) => -3.01dB
- 2. According to the conducted power as above, the body measurements are performed with 4Tx slots for 850MHz for GPRS.
- 3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled



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Band: GSM 1900	Meas	ured Power	r (dBm)		Averag	ged Power	(dBm)
Channel	512	661	810	Calculation (dB)	512	661	810
Frequency	1850.2	1880.0	1909.8	- (* /	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	30.23	30.27	30.25	-9.03	21.2	21.24	21.22
GPRS (GMSK, 1-slot)	29.79	29.86	29.82	-9.03	20.76	20.83	20.79
GPRS (GMSK, 2-slot)	29.01	29.07	29.04	-6.02	22.99	23.05	23.02
GPRS (GMSK, 3-slot)	28.11	28.17	28.04	-4.26	23.85	23.91	23.78
GPRS (GMSK, 4-slot)	27.00	27.10	27.06	-3.01	23.99	24.09	24.05
EGPRS (GMSK, 1-slot)	26.66	26.73	26.69	-9.03	17.63	17.70	17.66
EGPRS (GMSK, 2-slot)	25.88	25.94	25.91	-6.02	19.86	19.92	19.89
EGPRS (GMSK, 3-slot)	24.98	25.04	24.91	-4.26	20.72	20.78	20.65
EGPRS (GMSK, 1-slot)	23.87	23.97	23.93	-3.01	20.86	20.96	20.92

Note:

- 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) => -9.03dB
 - 2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB
 - 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) => -3.01dB
- 2. According to the conducted power as above, the body measurements are performed with 4Tx slots for 1900MHz for GPRS
- 3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled





Band	W	WCDMA Band II			WCDMA Band V		
Channel	9262	9400	9538	4132	4182	4233	
Frequency	1852.40	1880.00	1907.60	826.40	836.40	846.60	
RMC 12.2Kbps	23.71	23.86	23.80	23.32	23.43	23.40	
HSDPA Subtest-1	23.26	23.35	23.31	22.86	22.99	22.91	
HSDPA Subtest-2	22.92	23.05	23.07	22.56	22.68	22.63	
HSDPA Subtest-3	22.84	23.07	22.91	22.50	22.63	22.57	
HSDPA Subtest-4	22.88	23.04	22.90	22.44	22.61	22.56	
HSUPA Subtest-1	22.51	22.70	22.61	22.20	22.33	22.23	
HSUPA Subtest-2	22.44	22.60	22.53	22.10	22.23	22.15	
HSUPA Subtest-3	22.48	22.22	22.20	22.05	21.86	21.83	
HSUPA Subtest-4	22.05	22.16	22.11	21.66	21.80	21.71	
HSUPA Subtest-5	21.95	22.02	22.01	21.57	21.64	21.62	

Note:

- 1. According to the power listed above, the HSDPA and HSUPA were not determined for SAR testing.
- 2.The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2kbps RMC(reference measurement channel) configuration in test loop mode
- 3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

Band		WCDMA Band IV	
Channel	1312	1413	1513
Frequency	1712.4	1732.6	1752.6
RMC 12.2Kbps	22.92	23.05	23.04
HSDPA Subtest-1	22.52	22.62	22.51
HSDPA Subtest-2	22.23	22.37	22.20
HSDPA Subtest-3	22.14	22.22	22.21
HSDPA Subtest-4	22.02	22.20	22.22
HSUPA Subtest-1	21.85	21.93	21.85
HSUPA Subtest-2	21.71	21.82	21.74
HSUPA Subtest-3	21.64	21.51	21.41
HSUPA Subtest-4	21.32	21.45	21.33
HSUPA Subtest-5	21.22	21.24	21.20



Band: CDMA2000 BC0	Tune-up				
Tx Channel	1013	Limit			
Frequency(MHz)	824.7	836.52	848.31	(dBm)	
RC1 SO55	23.51	23.79	23.64	24.00	
RC3 SO55	23.39	23.60	23.45	24.00	
RC3 SO32(F+SCH)	23.32	23.51	23.38	24.00	
RC3 SO32(+SCH)	23.25	23.43	23.30	24.00	

		WLAN 2.4	G				
Mode	(C)	802.11b	(C)		802.11g)	
Channel	1	6	11	1	6	11	
Frequency	2412	2437	2462	2412	2437	2462	
Average Power (dBm)	11.96	12.05	12.42	9.61	9.79	9.83	
Mode	8	302.11n(HT20	0)	802.11n(HT40)			
Channel	1	6	11	3	6	9	
Frequency	2412	2437	2462	2422	2437	2452	
Average Power (dBm)	9.51	9.71	9.74	9.59	8.38	7.30	

Note

- 1. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- 2. The output power of all data rate were prescan , just the worst case (the lowest data rate) of all mode were shown in report





		guration Band 1 60 - 5240 MHz)	Configuration Band 3 (5745 - 5825 MHz)			
Mode	Test channel	Maximum Conducted Output Power (dBm)	Test channel	Maximum Conducted Output Power (dBm)		
11a	CH36	7.66	CH149	7.81		
11a	CH40	7.64	CH157	7.77		
11a	CH48	7.54	CH165	7.62		
11n(HT20)	CH36	7.39	CH149	7.66		
11n(HT20)	CH40	7.61	CH157	7.73		
11n(HT20)	CH48	7.42	CH165	7.61		
11n(HT40)	CH38	6.82	CH151	7.15		
11n(HT40)	CH46	6.73	CH159	6.56		
11ac(VHT20)	CH36	7.42	CH149	7.76		
11ac(VHT20)	CH40	7.60	CH157	7.61		
11ac(VHT20)	CH48	7.41	CH165	7.59		
11ac(VHT40)	CH38	6.72	CH151	7.40		
11ac(VHT40)	CH46	6.76	CH159	6.72		
11ac(VHT80)	CH42	6.22	CH155	6.61		

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	Exclusion thresholds for 1-g SAR	Exclusion thresholds for 10-g SAR
CH149	5.745	7.90	6.17	5	2.96	3.0	7.5

Note

- 1. Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
 - [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-q SAR, where
 - ·f(GHz) is the RF channel transmit frequency in GHz
 - ·Power and distance are rounded to the nearest mW and mm before calculation
 - ·The result is rounded to one decimal place for comparison
- 2. Base on the result of note1, RF exposure evaluation of WLAN5G is not required.
- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- 4. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.





		Bluetooth	ı			
Mode		GFSK		100	Pi/4DQPSK	
Channel	0	39	78	0	39	78
Frequency	2402	2441	2480	2402	2441	2480
Average Power (dBm)	7.22	5.78	8.43	5.64	4.72	7.62
Mode		8DPSK				
Channel	0	39	78			
Frequency	2402	2441	2480	(,c)	•)	
Average Power (dBm)	5.23	4.43	7.20			
Mode		BLE(1M)			BLE(2M)	
Channel	0	20	39	0	20	39
Frequency	2402	2440	2480	2402	2440	2480
Average Power (dBm)	-5.70	-5.44	-5.49	-5.03	-4.33	-4.41

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	Exclusion thresholds for 1-g SAR	Exclusion thresholds for 10-g SAR
78	2.480	9.00	7.94	5	2.50	3.0	7.5

Note

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR, where

- ·f(GHz) is the RF channel transmit frequency in GHz
- ·Power and distance are rounded to the nearest mW and mm before calculation
- ·The result is rounded to one decimal place for comparison
- 6. Base on the result of note1, RF exposure evaluation of BT is not required.
- 7. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- 8. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.





LTE Band 2

			RB	Channel	Channel	Channe
andwidth	Modulation	RB size	offset	18607	18900	19193
			0.00	23.54	23.60	23.61
		10	2.00	23.72	23.67	23.72
			5.00	23.60	23.59	23.57
	QPSK		0.00	23.72	23.67	23.68
		3	1.00	23.70	23.64	23.69
	(30)	<u> </u>	2.00	23.69	23.68	23.67
4 48411-		6	0.00	22.62	22.61	22.65
1.4MHz			0.00	22.74	22.77	22.73
		10	2.00	22.89	22.92	22.85
			5.00	22.77	22.72	22.75
	16QAM		0.00	22.62	22.61	22.58
		3	1.00	22.62	22.60	22.60
	(YQ,)		2.00	22.61	22.61	22.59
		6	0.00	21.71	21.55	21.72
andwidth	Modulation	RB size	RB	Channel	Channel	Channe
andwidth	Modulation	ND SIZE	offset	18615	18900	19185
			0.00	23.70	23.71	23.75
		1	8.00	23.68	23.68	23.79
			14.00	23.70	23.67	23.78
	QPSK		0.00	22.77	22.72	22.77
		8	4.00	22.74	22.71	22.79
			7.00	22.72	22.66	22.73
3MHz		15	0.00	22.72	22.68	22.73
SIVITIZ		$(C_{\mathcal{O}})$	0.00	22.90	22.96	22.64
		1	8.00	22.89	22.84	22.67
			14.00	22.92	22.87	22.70
	16QAM		0.00	21.87	21.77	21.82
		8	4.00	21.86	21.75	21.83
			7.00	21.82	21.75	21.77



		Conduc	ted Power of	LTE Band 2		
Dan desidab	Madulatian	DD sins	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	18625	18900	19175
			0.00	23.69	23.67	23.68
		1	13.00	23.84	23.78	23.82
		((0))	24.00	23.69	23.66	23.73
	QPSK		0.00	22.82	22.69	22.85
		12	6.00	22.76	22.69	22.88
			13.00	22.71	22.68	22.57
FR411-		25	0.00	22.75	22.68	22.76
5MHz			0.00	22.75	22.92	22.72
		1	13.00	22.79	23.00	22.79
		(c)	24.00	22.74	22.89	22.75
	16QAM		0.00	21.86	21.79	21.98
		12	6.00	21.82	21.79	21.94
			13.00	21.75	21.72	21.66
		25	0.00	21.84	21.78	21.83
Dandudalla	Madulation	DD -:	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	18650	18900	19150
			0.00	23.77	23.68	23.71
		1	25.00	23.82	23.77	23.79
			49.00	23.68	23.63	23.74
	QPSK		0.00	22.95	22.72	22.59
	(c)	25	13.00	22.93	22.71	22.59
			25.00	22.69	22.59	22.48
4014		50	0.00	22.80	22.63	22.48
10MHz			0.00	22.92	22.89	22.66
		(0)	25.00	23.07	23.02	22.68
			49.00	22.89	22.87	22.66
	16QAM		0.00	21.97	21.79	21.69
		25	13.00	22.00	21.76	21.68
			25.00	21.76	21.70	21.61
		50	0.00	21.84	21.71	21.58



		Conduct	ted Power o	f LTE Band 2		
Domaliusi altib	Madulation	DD size	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	18675	18900	19125
			0.00	23.62	23.59	23.68
		1	38.00	23.70	23.67	23.69
		((0))	74.00	23.57	23.59	23.68
	QPSK		0.00	22.83	22.62	22.50
		36	18.00	22.81	22.60	22.53
			39.00	22.84	22.60	22.55
45841-		75	0.00	22.80	22.61	22.57
15MHz			0.00	22.85	22.90	22.54
		1	38.00	22.90	23.00	22.62
			74.00	22.84	22.92	22.53
	16QAM		0.00	22.79	22.60	22.60
		36	18.00	22.80	22.60	22.59
		Ī	39.00	22.82	22.60	22.58
	(60)	75	0.00	21.78	21.66	21.58
Bandwidth	Modulation	DD oize	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	18700	18900	19100
			0.00	23.56	23.49	23.39
		1	50.00	23.87	23.82	23.70
			99.00	23.52	23.43	23.40
	QPSK		0.00	22.94	22.41	22.60
	$(C_{\mathcal{C}})$	50	25.00	22.94	22.41	22.58
			50.00	22.73	22.39	22.59
20MU-		100	0.00	22.83	22.40	22.60
20MHz			0.00	22.57	22.66	22.45
		(C)	50.00	22.92	22.96	22.82
			99.00	22.53	22.61	22.48
	16QAM		0.00	22.00	21.53	21.70
		50	25.00	21.97	21.54	21.70
			50.00	21.76	21.47	21.73
		100	0.00	21.89	21.48	21.68



LTE Band 4

			RB	Channel	Channel	Channe
andwidth	Modulation	RB size	offset	19957	20175	20393
			0.00	23.83	23.79	23.66
		10	2.00	23.96	23.87	23.71
			5.00	23.84	23.78	23.58
	QPSK		0.00	23.88	23.79	23.72
		3	1.00	23.86	23.77	23.72
	(20)	<u> </u>	2.00	23.90	23.81	23.76
4 48411-		6	0.00	22.89	22.89	22.76
1.4MHz			0.00	22.74	22.82	22.30
		10	2.00	22.85	22.94	22.61
			5.00	22.69	22.80	22.25
	16QAM		0.00	22.70	22.65	22.55
		3	1.00	22.69	22.64	22.56
	(YQ,)		2.00	22.68	22.65	22.53
		6	0.00	21.87	21.70	21.74
andwidth	Modulation	RB size	RB	Channel	Channel	Channe
andwidth	Modulation	ND SIZE	offset	19965	20175	20385
			0.00	23.83	23.81	23.78
		1	8.00	23.81	23.88	23.75
			14.00	23.78	23.84	23.72
	QPSK		0.00	22.89	22.88	22.81
		8	4.00	22.87	22.86	22.85
			7.00	22.84	22.88	22.77
2M⊔~		15	0.00	22.84	22.80	22.75
3MHz		$(C_{\mathcal{O}})$	0.00	23.00	22.96	22.63
		1	8.00	22.99	22.85	22.65
			14.00	22.92	22.87	22.64
	16QAM		0.00	21.93	21.88	21.86
		8	4.00	21.96	21.85	21.85
			7.00	21.94	21.86	21.78



		Conduc	ted Power of	LTE Band 4		
		55 :	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	19975	20175	20375
			0.00	23.81	23.78	23.75
		(10)	13.00	23.97	23.92	23.88
			24.00	23.79	23.79	23.69
	QPSK		0.00	22.87	22.78	22.83
		12	6.00	22.89	22.78	22.79
	(50.)		13.00	22.80	22.83	22.74
		25	0.00	22.87	22.80	22.77
5MHz			0.00	22.82	22.91	22.73
		1	13.00	22.95	23.06	22.87
			24.00	22.78	22.9	22.69
	16QAM		0.00	21.92	21.82	21.82
		12	6.00	21.91	21.79	21.87
			13.00	21.8	21.89	21.77
		25	0.00	21.91	21.81	21.83
Domalusi altia	Modulation	DD size	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	20000	20175	20350
		(0)	0.00	23.83	23.81	23.74
		1	25.00	23.96	23.88	23.91
			49.00	23.80	23.82	23.72
	QPSK		0.00	22.92	22.81	22.86
		25	13.00	22.93	22.82	22.86
			25.00	22.86	22.92	22.74
400411-		50	0.00	22.89	22.81	22.77
10MHz		(C)	0.00	23.01	22.89	22.60
		1	25.00	23.11	23.01	22.70
		Ī	49.00	22.98	22.87	22.64
	16QAM		0.00	21.99	21.88	21.93
	(0)	25	13.00	21.99	21.85	21.93
		Ī	25.00	21.89	21.94	21.83
		50	0.00	21.93	21.86	21.84



		Conduct	ed Power of	LTE Band 4		
Donalus elele	Modulation	DD ci-c	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	20025	20175	20325
			0.00	23.72	23.73	23.69
		10	38.00	23.79	23.89	23.80
			74.00	23.65	23.75	23.61
	QPSK		0.00	22.91	22.96	22.86
		36	18.00	22.94	22.95	22.86
			39.00	22.94	22.98	22.86
4 FM11-		75	0.00	22.95	22.94	22.88
15MHz			0.00	22.90	22.99	22.58
		1,0	38.00	22.95	23.01	22.69
			74.00	22.87	22.90	22.52
	16QAM		0.00	22.94	22.95	22.86
		36	18.00	22.94	22.94	22.88
	((0,))		39.00	22.92	22.95	22.85
		75	0.00	21.89	21.90	21.82
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Sandwidth	Modulation	ND SIZE	offset	20050	20175	20300
			0.00	23.69	23.63	23.46
		1	50.00	24.03	24.05	23.75
			99.00	23.66	23.61	23.40
	QPSK		0.00	22.88	22.70	22.66
		50	25.00	22.92	22.74	22.67
			50.00	22.76	22.86	22.67
20MHz		100	0.00	22.88	22.82	22.67
ZUIVITZ		(0)	0.00	22.65	22.73	22.51
		1	50.00	22.99	23.02	22.82
			99.00	22.62	22.67	22.46
	16QAM		0.00	21.94	21.74	21.75
		50	25.00	21.96	21.80	21.71
			50.00	21.83	21.92	21.76
		100	0.00	21.89	21.80	21.65



LTE Band 5

			ted Power of		01 1	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channe
				20407	20525	20643
			0.00	21.84	21.85	21.88
		(10)	2.00	21.90	22.00	21.92
			5.00	21.93	21.83	21.82
	QPSK	_	0.00	21.97	21.97	21.95
	(.c.)	3	1.00	22.00	21.95	21.95
			2.00	21.98	22.00	21.98
1.4MHz		6	0.00	20.96	20.89	20.90
			0.00	21.32	21.01	20.73
			2.00	21.48	21.19	20.94
			5.00	21.33	21.02	20.77
	16QAM		0.00	20.93	20.88	20.77
		3	1.00	20.83	20.89	20.77
	(40.)		2.00	20.81	20.90	20.72
		6	0.00	20.00	19.83	19.92
andwidth	Modulation	RB size	RB	Channel	Channel	Channe
	Woddiation	ND 3120	offset	20415	20525	20635
			0.00	21.93	21.94	21.94
		1	8.00	21.92	21.92	21.91
			14.00	21.89	21.92	21.92
	QPSK		0.00	21.00	20.92	20.97
		8	4.00	20.99	20.92	20.97
			7.00	20.99	20.89	20.87
0.041.1-		15	0.00	20.93	20.91	20.90
3MHz		(ZQ.)	0.00	21.19	21.13	20.83
		1	8.00	21.04	21.05	20.84
			14.00	21.07	21.08	20.82
	16QAM		0.00	20.06	19.95	19.99
	(0)	8	4.00	20.05	19.97	20.01
			7.00	20.05	19.95	19.93
		15	0.00	20.01	19.88	19.85



Conducted Power of LTE Band 5									
D I ' Idl	Maril Jacka	DD -: -	RB	Channel	Channel	Channel			
Bandwidth	Modulation	RB size	offset	20425	20525	20625			
			0.00	21.91	21.88	21.94			
		(10)	13.00	22.01	21.96	22.00			
			24.00	21.92	21.86	21.90			
	QPSK		0.00	20.96	20.98	20.75			
		12	6.00	21.00	21.02	20.75			
		=	13.00	20.97	20.81	20.77			
		25	0.00	20.96	20.90	20.75			
5MHz			0.00	20.92	21.09	20.88			
		(1.0)	13.00	21.01	21.16	21.00			
			24.00	20.89	21.08	20.88			
	16QAM		0.00	19.97	20.09	19.73			
		12	6.00	19.99	20.08	19.76			
	(60)	-	13.00	20.02	19.91	19.82			
		25	0.00	20.01	19.97	19.84			
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel			
Danuwium	Modulation	KD SIZE	offset	20450	20525	20600			
			0.00	21.91	21.91	21.96			
		1	25.00	22.01	22.00	21.99			
			49.00	21.85	21.86	21.85			
	QPSK		0.00	20.94	21.01	20.99			
		25	13.00	20.95	21.03	20.98			
			25.00	21.12	20.78	21.02			
10MHz		50	0.00	21.00	20.94	20.99			
IUIVITZ		(0)	0.00	21.10	21.08	20.86			
		1	25.00	21.14	21.18	20.86			
			49.00	21.05	21.02	20.79			
	16QAM		0.00	19.98	20.15	20.07			
		25	13.00	19.94	20.12	20.08			
			25.00	20.17	19.88	20.09			
		50	0.00	20.04	19.94	20.04			



		Conduc	ted Power of	LTE Band 7		
Bandwidth	Modulation	DP circ	RB	Channel	Channel	Channel
Dangwigth	Modulation	RB size	offset	20775	21100	21425
			0.00	23.53	23.58	23.65
		(10)	13.00	23.70	23.73	23.82
			24.00	23.53	23.59	23.69
	QPSK		0.00	22.64	22.72	22.69
		12	6.00	22.65	22.65	22.68
	(60)		13.00	22.62	22.68	22.70
5841I-		25	0.00	22.65	22.67	22.70
5MHz			0.00	22.54	22.82	22.71
		1.0	13.00	22.71	22.95	22.82
			24.00	22.57	22.83	22.68
	16QAM		0.00	21.59	21.71	21.69
		12	6.00	21.46	21.68	21.71
	(,0')		13.00	21.58	21.66	21.76
		25	0.00	21.66	21.67	21.76
Den hei kit	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Modulation		offset	20800	21100	21400
			0.00	23.54	23.60	23.71
		1	25.00	23.65	23.72	23.84
			49.00	23.57	23.62	23.65
	QPSK		0.00	22.68	22.72	22.71
		25	13.00	22.70	22.72	22.69
			25.00	22.64	22.73	22.85
10MHz		50	0.00	22.61	22.65	22.72
TUIVITIZ		((0,)	0.00	22.74	22.79	22.66
		1	25.00	22.85	22.94	22.75
			49.00	22.78	22.83	22.57
	16QAM		0.00	21.68	21.77	21.72
		25	13.00	21.66	21.72	21.73
			25.00	21.60	21.76	21.86
		50	0.00	21.59	21.72	21.75



		Conduct	eu rower o	f LTE Band 7	,	
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danawiatii	Woddiation	IVD 312C	offset	20825	21100	21375
			0.00	23.43	23.50	23.62
		1,0	38.00	23.59	23.67	23.74
			74.00	23.45	23.55	23.62
	QPSK		0.00	22.69	22.72	22.79
		36	18.00	22.69	22.74	22.80
	(60)		39.00	22.70	22.76	22.80
45MII-		75	0.00	22.70	22.75	22.81
15MHz			0.00	22.64	22.79	22.54
			38.00	22.78	22.96	22.68
			74.00	22.68	22.78	22.56
	16QAM		0.00	22.70	22.73	22.83
		36	18.00	22.69	22.75	22.78
	$(C_{C_{i}})$		39.00	22.69	22.74	22.79
		75	0.00	21.63	21.70	21.76
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danuwium			offset	20850	21100	21350
		(0)	0.00	23.36	23.35	23.37
		1	50.00	23.76	23.81	23.78
			99.00	23.40	23.47	23.39
	QPSK		0.00	22.65	22.54	22.61
		50	25.00	22.65	22.57	22.65
			50.00	22.63	22.60	22.89
20MU-		100	0.00	22.64	22.59	22.80
20MHz		((C))	0.00	22.38	22.61	22.49
		1	50.00	22.72	23.00	22.85
			99.00	22.40	22.62	22.50
	16QAM		0.00	21.66	21.55	21.71
	(0)	50	25.00	21.67	21.56	21.73
			50.00	21.64	21.59	21.96
		100	0.00	21.67	21.54	21.82



			RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	23017	23095	23173
			0.00	22.11	22.03	22.03
		(10)	2.00	22.26	22.14	22.22
			5.00	22.12	22.03	22.04
	QPSK		0.00	22.17	22.15	22.16
		3	1.00	22.14	22.15	22.16
	(30)	<u> </u>	2.00	22.19	22.18	22.19
4 48411-		6	0.00	21.17	21.11	21.10
1.4MHz			0.00	21.12	21.21	20.99
		(10)	2.00	21.31	21.37	21.15
			5.00	21.15	21.21	20.93
	16QAM		0.00	21.04	21.11	21.02
		3	1.00	21.02	21.08	20.97
	(YQ,)		2.00	21.05	21.14	20.96
		6	0.00	20.19	20.01	20.11
andwidth	Modulation	RB size	RB	Channel	Channel	Channe
andwidth	Modulation	ND SIZE	offset	23025	23095	23165
			0.00	22.04	22.13	22.06
		1	8.00	22.10	22.08	22.11
			14.00	22.07	22.02	22.11
	QPSK		0.00	21.13	21.11	21.23
		8	4.00	21.13	21.09	21.19
			7.00	21.16	21.13	21.16
3MHz		15	0.00	21.13	21.11	21.11
SIVITIZ		(CO.)	0.00	21.20	21.34	20.93
		1	8.00	21.28	21.28	21.04
			14.00	21.28	21.20	21.03
	16QAM		0.00	20.20	20.14	20.24
		8	4.00	20.19	20.14	20.24
		[7.00	20.23	20.16	20.16



		Conduct	ed Power of	LTE Band 12		
		55.	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	23035	23095	23155
			0.00	22.08	22.08	22.02
		(10)	13.00	22.20	22.21	22.18
			24.00	22.13	22.04	22.07
	QPSK		0.00	21.14	21.09	21.22
		12	6.00	21.14	21.13	21.18
(6)	(40.)		13.00	21.03	21.26	20.89
FN411 _		25	0.00	21.07	21.17	21.13
5MHz			0.00	21.05	21.32	21.05
		1	13.00	21.26	21.42	21.16
			24.00	21.12	21.2	21.12
	16QAM		0.00	20.16	20.15	20.24
		12	6.00	20.18	20.14	20.23
			13.00	20.04	20.33	19.99
		25	0.00	20.10	20.21	20.19
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danuwium	Modulation	KD SIZE	offset	23060	23095	23130
		(0)	0.00	22.08	22.14	22.15
		1	25.00	22.19	22.09	22.11
			49.00	22.07	22.03	22.08
	QPSK		0.00	21.44	21.29	20.98
		25	13.00	21.44	21.29	20.94
			25.00	21.30	21.43	20.88
10MHz		50	0.00	21.36	21.34	20.88
TUIVITIZ		(C)	0.00	21.24	21.31	21.06
		1	25.00	21.43	21.36	21.08
			49.00	21.26	21.18	21.05
	16QAM		0.00	20.46	20.34	20.02
	(0)	25	13.00	20.49	20.38	20.03
			25.00	20.33	20.45	19.95
		50	0.00	20.36	20.40	19.92



			RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	23205	23230	23255
			0.00	21.94	21.99	21.87
		(10)	13.00	22.09	22.08	22.06
			24.00	21.91	21.98	21.91
	QPSK		0.00	20.94	21.04	20.98
		12	6.00	20.98	21.03	21.01
			13.00	20.96	20.98	20.97
CN411 -		25	0.00	20.93	21.04	21.03
5MHz			0.00	21.14	20.99	20.90
		10	13.00	21.28	21.09	21.04
			24.00	21.10	20.99	20.93
	16QAM		0.00	20.04	20.06	20.01
		12	6.00	20.04	20.09	20.01
	((C))		13.00	20.00	20.02	20.00
		25	0.00	19.97	20.10	20.04
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channe
Danuwium	Modulation		offset	23230	23230	23230
			0.00	21.92	21.94	21.94
		1	25.00	22.01	22.01	22.03
			49.00	21.90	21.90	21.90
	QPSK		0.00	21.08	21.09	21.07
		25	13.00	21.10	21.07	21.08
			25.00	21.09	21.12	21.10
10MHz		50	0.00	21.10	21.09	21.11
IUIVITZ		((0,)	0.00	21.17	21.16	21.14
		1	25.00	21.25	21.20	21.24
			49.00	21.09	21.10	21.10
	16QAM		0.00	20.07	20.08	20.06
		25	13.00	20.11	20.09	20.08
			25.00	20.12	20.12	20.12
		50	0.00	20.10	20.10	20.07



			RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	23755	23790	23825
			0.00	22.07	22.13	22.03
		(10)	13.00	22.20	22.16	22.12
			24.00	22.12	22.04	22.03
	QPSK		0.00	21.16	20.94	21.23
		12	6.00	21.13	21.00	21.21
		-	13.00	21.27	21.17	20.92
EMILL-		25	0.00	21.25	21.07	21.04
5MHz			0.00	21.32	21.17	21.08
		10	13.00	21.42	21.22	21.17
			24.00	21.29	21.09	21.15
	16QAM		0.00	20.22	20.03	20.21
		12	6.00	20.24	20.03	20.21
	('C')		13.00	20.34	20.21	19.95
		25	0.00	20.25	20.19	20.10
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danawiatii	Woddiation		offset	23780	23790	23800
			0.00	22.13	22.12	22.22
		1	25.00	22.15	22.09	22.17
			49.00	22.00	22.03	22.08
	QPSK		0.00	21.08	20.95	20.93
		25	13.00	21.10	20.95	20.93
			25.00	21.25	21.02	20.86
10MHz		50	0.00	21.16	20.97	20.9
IUWITZ		((0,)	0.00	21.35	21.32	21.08
		1	25.00	21.41	21.39	21.10
			49.00	21.21	21.23	21.03
	16QAM		0.00	20.11	20.02	20.04
		25	13.00	20.15	20.01	20.04
			25.00	20.25	20.10	19.92
		50	0.00	20.24	20.07	19.96



		Jonado		LTE Band 25		
Bandwidth	Modulation	RB size	RB _	Channel	Channel	Channe
			offset	26047	26365	26683
			0.00	24.07	24.12	24.16
		(10)	2.00	24.22	24.23	24.33
			5.00	24.09	24.12	24.20
	QPSK	 -	0.00	24.20	24.21	24.16
		3	1.00	24.20	24.18	24.13
, (C)			2.00	24.26	24.23	24.17
1.4MHz		6	0.00	23.15	23.15	23.23
1.7111112			0.00	23.24	23.02	23.12
		(10)	2.00	23.43	23.18	23.27
			5.00	23.25	22.99	23.11
	16QAM		0.00	23.12	23.04	23.01
		3	1.00	23.10	23.04	23.02
	(C)	-	2.00	23.15	23.02	22.97
		6	0.00	22.06	22.14	22.20
andwidth	Modulation	RB size	RB	Channel	Channel	Channe
andwidth	Modulation	RD SIZE	offset	26055	26365	26675
		(0)	0.00	24.08	24.07	24.18
		1	8.00	24.13	24.16	24.16
		-	14.00	24.19	24.08	24.14
	QPSK		0.00	23.18	23.17	23.23
		8	4.00	23.18	23.17	23.22
		-	7.00	23.14	23.13	23.27
OM11-		15	0.00	23.15	23.13	23.19
3MHz		$(C_{\mathcal{O}})$	0.00	23.34	23.33	23.08
		1	8.00	23.37	23.28	23.07
			14.00	23.33	23.28	23.02
	16QAM		0.00	22.24	22.18	22.22
	(0)	8	4.00	22.25	22.16	22.22
			7.00	22.21	22.13	22.19
		15	0.00	22.17	22.06	22.11



		Conduct	ed Power of	LTE Band 25		
		55.	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	26065	26365	26665
			0.00	24.07	24.07	24.18
		10	13.00	24.25	24.22	24.32
			24.00	24.09	24.04	24.12
	QPSK		0.00	23.21	23.21	23.22
(c)		12	6.00	23.22	23.21	23.21
	(40.)		13.00	23.12	23.08	23.28
FN411 _		25	0.00	23.13	23.12	23.26
5MHz			0.00	23.12	23.28	23.08
		1	13.00	23.30	23.42	23.24
			24.00	23.12	23.24	23.06
	16QAM		0.00	22.19	22.25	22.23
		12	6.00	22.23	22.22	22.26
			13.00	22.13	22.12	22.30
		25	0.00	22.22	22.14	22.28
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danuwium	Modulation	KD SIZE	offset	26090	26365	26640
		(0)	0.00	24.08	24.10	24.14
		1	25.00	24.26	24.20	24.21
			49.00	24.10	24.09	24.09
	QPSK		0.00	23.30	23.14	23.61
		25	13.00	23.31	23.15	23.58
			25.00	23.08	23.02	23.26
10MU-		50	0.00	23.22	23.06	23.41
10MHz		(C_{i})	0.00	23.30	23.27	23.01
		1	25.00	23.43	23.30	23.21
			49.00	23.33	23.22	23.01
	16QAM		0.00	22.33	22.22	22.64
	(60)	25	13.00	22.34	22.21	22.66
			25.00	22.14	22.08	22.31
		50	0.00	22.23	22.14	22.41



		Conducte	ed Power of	LTE Band 25		
.		DD :	RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	26115	26365	26615
			0.00	24.01	23.99	24.04
		10	38.00	24.13	24.12	24.14
			74.00	24.00	24.02	24.04
	QPSK		0.00	23.24	23.09	23.16
		36	18.00	23.24	23.14	23.12
			39.00	23.25	23.11	23.15
455411		75	0.00	23.26	23.16	23.14
15MHz			0.00	23.18	23.29	22.94
		1.0	38.00	23.38	23.45	23.13
			74.00	23.20	23.27	22.85
	16QAM		0.00	23.25	23.11	23.14
		36	18.00	23.27	23.14	23.15
	$(C_{\mathcal{O}})$		39.00	23.27	23.11	23.15
		75	0.00	22.23	22.12	22.09
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel
Danuwium			offset	26140	26365	26590
			0.00	23.92	23.90	23.76
		1	50.00	24.41	24.23	24.15
			99.00	23.90	23.85	23.75
	QPSK		0.00	23.39	23.03	22.71
		50	25.00	23.39	22.97	22.73
			50.00	23.18	22.80	22.65
20MHz		100	0.00	23.26	22.91	22.67
ΖυίνιΠΖ		(0)	0.00	22.95	23.01	22.88
		1	50.00	23.41	23.40	23.22
			99.00	22.93	23.02	22.84
	16QAM		0.00	22.44	22.03	21.83
		50	25.00	22.43	22.00	21.82
			50.00	22.19	21.85	21.69
		100	0.00	22.27	21.96	21.74



			RB	Channel	Channel	Channel
Bandwidth	Modulation	RB size	offset	39675	40620	41565
			0.00	23.57	23.76	23.89
		(10)	13.00	23.67	23.86	24.04
			24.00	23.55	23.79	23.93
	QPSK		0.00	22.66	22.80	22.85
		12	6.00	22.64	22.82	22.89
			13.00	22.69	22.85	22.84
58411		25	0.00	22.69	22.85	22.87
5MHz			0.00	22.58	23.00	22.76
		10	13.00	22.69	23.10	22.85
			24.00	22.60	23.04	22.77
	16QAM		0.00	21.69	21.89	21.90
		12	6.00	21.67	21.90	21.88
	((0,))	<u> </u>	13.00	21.71	21.92	21.85
		25	0.00	21.73	21.89	21.96
Day desidth	Modulation	RB size	RB	Channel	Channel	Channel
Bandwidth	Modulation		offset	41640	42590	43540
		(0)	0.00	23.72	23.91	23.96
		1	25.00	23.95	24.17	24.26
			49.00	23.68	23.96	23.99
	QPSK		0.00	22.79	22.92	22.98
		25	13.00	22.77	22.92	22.98
			25.00	22.77	22.96	22.87
408411-		50	0.00	22.77	22.95	22.89
10MHz		(C)	0.00	22.89	23.02	22.74
		1	25.00	23.08	23.25	22.95
			49.00	22.85	23.04	22.76
	16QAM		0.00	21.79	21.98	22.02
		25	13.00	21.80	21.97	22.04
			25.00	21.78	22.04	21.93
		50	0.00	21.80	21.99	21.94

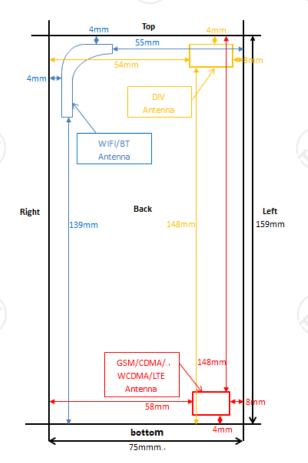


		Conducte	ed Power of	LTE Band 41		
.		DD :	RB	Channel	Channel	Channe
Bandwidth	Modulation	RB size	offset	41665	42590	43515
			0.00	23.66	23.82	23.87
		10	38.00	23.71	23.99	23.99
			74.00	23.59	23.90	23.91
	QPSK		0.00	22.85	22.99	23.10
	(6)	36	18.00	22.84	23.03	23.12
			39.00	22.85	23.01	23.11
458411-		75	0.00	22.84	23.02	23.11
15MHz			0.00	22.80	22.98	22.69
		1.0	38.00	22.85	23.11	22.73
			74.00	22.77	23.06	22.67
	16QAM		0.00	22.84	23.02	23.10
		36	18.00	22.85	23.01	23.10
			39.00	22.84	23.01	23.12
		75	0.00	21.79	22.00	22.02
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channe
Janawiatii	Wodalation	TO SIZE	offset	41690	42590	43490
			0.00	23.51	23.67	23.68
		1	50.00	23.96	24.20	24.18
			99.00	23.49	23.77	23.72
	QPSK		0.00	22.71	22.88	22.90
		50	25.00	22.71	22.87	22.89
			50.00	22.70	22.93	22.79
20MHz		100	0.00	22.68	22.90	22.84
_VIIII 12		100	0.00	22.56	22.91	22.62
		1	50.00	22.98	23.43	23.03
			99.00	22.55	23.01	22.58
	16QAM		0.00	21.74	21.94	21.99
		50	25.00	21.73	21.94	21.97
			50.00	21.72	21.97	21.89
		100	0.00	21.71	21.96	21.92



9. Exposure Position Consideration

9.1. EUT Antenna Location



9.2. Test Position Consideration

	Test Positions									
Mode	Back	Front	Top Side	Bottom Side	Right Side	Left Side				
GSM/WCDMA/CDMA /LTE HOTSPOT	Yes	Yes	No	Yes	No	Yes				
WIFI/BT	Yes	Yes	Yes	No	Yes	No				

Note:

 KDB 447498 D01v06, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm.

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10. SAR Test Results Summary

10.1. Head 1g SAR Data

Band	Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
		Left Cheek	190	836.6	33.85	34.00	-1.95	0.07	1.035	0.07	
GSM850	voice	Left Tilt	190	836.6	33.85	34.00	1.39	0.03	1.035	0.03	
GSIVIOSU	voice	Right Cheek	190	836.6	33.85	34.00	3.63	0.08	1.035	0.08	
(()		Right Tilt	190	836.6	33.85	34.00	-0.84	0.04	1.035	0.04	
		Left Cheek	661	1880	30.27	30.50	-1.75	0.07	1.054	0.07	
00144000		Left Tilt	661	1880	30.27	30.50	0.69	0.03	1.054	0.03	
GSM1900	voice	Right Cheek	661	1880	30.27	30.50	0.11	0.09	1.054	0.09	
		Right Tilt	661	1880	30.27	30.50	-1.49	0.03			
31)		Left Cheek	384	836.52	23.79	24.00	-2.84	0.01	1.050	0.01	(.c
CDMA	RC3	Left Tilt	384	836.52	23.79	24.00	0.17	0.01	1.050	0.01	
BC0	SO55	Right Cheek	384	836.52	23.79	24.00	1.80	0.01	1.050	0.01	
		Right Tilt	384	836.52	23.79	24.00	0.06	0.01	1.050	0.01	
		Left Cheek	9400	1880	23.86	24.00	0.68	0.15	1.033	0.15	1.60
WCDMA		Left Tilt	9400	1880	23.86	24.00	-1.37	0.06	1.033	0.06	
Band II	RMC	Right Cheek	9400	1880	23.86	24.00	1.19	0.17	1.033	0.18	
		Right Tilt	9400	1880	23.86	24.00	0.27	0.08	1.033	0.08	
		Left Cheek	1413	1732.6	23.05	23.50	-2.67	0.06	1.109	0.07	
WCDMA	DUI	Left Tilt	1413	1732.6	23.05	23.50	0.98	0.02	1.109	0.02	
Band IV	RMC	Right Cheek	1413	1732.6	23.05	23.50	1.84	0.06	1.109	0.07	
		Right Tilt	1413	1732.6	23.05	23.50	1.68	0.02	1.109	0.02	(,c
		Left Cheek	4182	836.4	23.43	23.50	-3.25	0.04	1.016	0.04	
WCDMA	DMO	Left Tilt	4182	836.4	23.43	23.50	2.66	0.01	1.016	0.01	
Band V	RMC	Right Cheek	4182	836.4	23.43	23.50	-0.32	0.05	5 1.016 0.05		
		Right Tilt	4182	836.4	23.43	23.50	0.97	0.02	1.016	0.02	



		Left Cheek	11	2462	12.42	12.50	-1.45	0.01	1.019	0.01	
2.4G	902 11h	Left Tilt	11	2462	12.42	12.50	0.15	0.01	1.019	0.01	
2.46	802.11b	Right Cheek	11	2462	12.42	12.50	3.42	0.01	1.019	0.01	
		Right Tilt	11	2462	12.42	12.50	-2.69	0.01	1.019	0.01	

Band	Mode	Test Position	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-U p Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
		Right	18700	1000	1	50	23.87	24.00	2.20	0.13	1.030	0.13
		Cheek	16700	1860	50	25	22.94	23.00	1.97	0.09	1.014	0.09
		Right	40700	4000	1	50	23.87	24.00	-2.98	0.03	1.030	0.03
LTE	QPSK	Tilt	18700	1860	- 50	25	22.94	23.00	-0.33	0.02	1.014	0.02
Band 2	(1.4MHz)	Left	40700	4000	O`)1	50	23.87	24.00	-0.09	0.12	1.030	0.12
		Cheek	18700	1860	50	25	22.94	23.00	-1.62	0.09	1.014	0.09
			40700	1000	1	50	23.87	24.00	-1.95	0.02	1.030	0.02
		Left Tilt	18700	1860	50	25	22.94	23.00	-1.42	0.02	1.014	0.02
		Right	00475	4700.5	1	50	24.05	24.50	1.33	0.07	1.109	0.08
		Cheek	20175	1732.5	50	25	22.74	23.00	-1.37	0.05	1.062	0.05
		Right Tilt	00475	4700 5	1	50	24.05	24.50	-1.08	0.03	1.109	0.03
LTE	QPSK		20175	1732.5	50	25	22.74	23.00	-1.74	0.02	1.062	0.02
Band 4	(20MHz)	Left Cheek	00475	4700.5	1	50	24.05	24.50	-0.52	0.06	1.109	0.07
			20175	1732.5	50	25	22.74	23.00	2.84	0.05	1.062	0.05
		Late Tile	20475	4700.5	1	50	24.05	24.50	0.97	0.02	1.109	0.02
		Left Tilt	20175	1732.5	50	25	22.74	23.00	0.66	0.01	1.062	0.01
		Right	20.425	000.5	1	13	22.01	22.50	-2.10	0.09	1.119	0.10
		Cheek	20425	826.5	12	6	21.00	21.50	-3.18	0.07	1.122	0.08
	(, c)	Right	00.405	000.5	()1	13	22.01	22.50	-2.48	0.04	1.119	0.04
LTE	QPSK	Tilt	20425	826.5	12	6	21.00	21.50	0.82	0.02	1.122	0.02
Band 5	(5MHz)	Left	00.405	000.5	1	13	22.01	22.50	-1.67	0.09	1.119	0.10
		Cheek	20425	826.5	12	6	21.00	21.50	-1.08	0.06	1.122	0.07
		Loft Tilt	20425	926 F	1	13	22.01	22.50	-0.08	0.04	1.119	0.04
		Left Tilt	20425	826.5	12	6	21.00	21.50	-1.73	0.03	1.122	0.03



	3)	Right	21400	2565	1	25	23.84	24.00	-1.41	0.02	1.038	0.02
(C)		Cheek	21400	2303	50	0	22.71	23.00	-2.38	0.01	1.069	0.01
		Right	21400	2565	1	25	23.84	24.00	2.99	0.01	1.038	0.01
LTE	QPSK	Tilt	21400	2000	50	0	22.71	23.00	1.37	0.01	1.069	0.01
Band 7	(10MHz)	Left	04.400	0505	1	25	23.84	24.00	0.52	0.02	1.038	0.02
		Cheek	21400	2565	50	0	22.71	23.00	2.94	0.01	1.069	0.01
l		1 -4 T:4	04.400	0505	1	25	23.84	24.00	2.36	0.01	1.038	0.01
		Left Tilt	21400	2565	50	0	22.71	23.00	-1.88	0.01	1.069	0.01
C^{\prime}		Right	00005	707.5	1	13	22.21	22.50	-3.46	0.03	1.069	0.03
		Cheek	23095	707.5	12	6	21.13	21.50	0.47	0.02	1.089	0.02
		Right	22225	707.5	1	13	22.21	22.50	-3.65	0.02	1.069	0.02
LTE	QPSK	Tilt	23095	707.5	12	6	21.13	21.50	-1.36	0.01	1.089	0.01
Band 12	(5MHz)	Left	22225	707.5	1	13	22.21	22.50	-1.62	0.02	1.069	0.02
		Cheek	23095	707.5	12	6	21.13	21.50	-1.46	0.01	1.089	0.01
		1 - 6 T ''	00005	707.5	1	13	22.21	22.50	-1.00	0.01	1.069	0.01
		Left Tilt	23095	707.5	12	6	21.13	21.50	-1.03	0.01	1.089	0.01
		Right Cheek	00005	770 5	1	13	22.09	22.50	-3.67	0.03	1.099	0.03
				779.5	12	6	20.98	21.00	-2.67	0.01	1.005	0.01
		Right	02005	770 5	1	13	22.09	22.50	-1.35	0.01	1.099	0.01
LTE	QPSK	Tilt	23205	779.5	12	6	20.98	21.00	-1.02	0.01	1.005	0.01
Band 13	(5MHz)	Left	02005	770.5	1	13	22.09	22.50	-1.30	0.02	1.099	0.02
		Cheek	23205	779.5	12	6	20.98	21.00	-1.55	0.01	1.005	0.01
		Late T''	00005	770 5	1	13	22.09	22.50	0.27	0.01	1.099	0.01
		Left Tilt	23205	779.5	12	6	20.98	21.00	1.88	0.01	1.005	0.01
		Right	00000	744	1	0	22.22	22.50	-2.71	0.03	1.067	0.03
		Cheek	23800	711	25	0	20.93	21.00	-3.65	0.02	1.016	0.02
	((C)	Right	00000	7.1	<u>()</u> 1	0	22.22	22.50	2.97	0.01	1.067	0.01
LTE	QPSK	Tilt	23800	711	25	0	20.93	21.00	-0.39	0.01	1.016	0.01
Band 17	(20MHz)	Left	00000	7.1	1	0	22.22	22.50	-2.54	0.02	1.067	0.02
		Cheek	23800	711	25	0	20.93	21.00	-1.66	0.02	1.016	0.02
					1	0	22.22	22.50	-2.41	0.01	1.067	0.01
		Left Tilt	23800	711	25	0	20.93	21.00	-2.37	0.01	1.016	0.01

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7		Right	26140	1860	1	5	24.41	24.50	1.52	0.16	1.021	0.16
		Cheek	20140	1000	50	25	23.39	23.50	0.75	0.12	1.026	0.12
		Right	26140	1860	1	5	24.41	24.50	-2.68	0.08	1.021	0.08
LTE	QPSK	Tilt	20140	1000	50	25	23.39	23.50	-1.66	0.06	1.026	0.06
Band 25	(20MHz)	Left	26140	1860	1	5	24.41	24.50	-1.87	0.14	1.021	0.14
		Cheek	26140	1860	50	25	23.39	23.50	-0.64	0.11	1.026	0.11
		1 - 6 Tu	00440	4000	1	5	24.41	24.50	-0.06	0.07	1.021	0.07
		Left Tilt	26140	1860	50	25	23.39	23.50	-1.67	0.05	1.026	0.05
<u>(,)</u>		Right	26740	040	1	25	21.99	22.00	0.16	0.07	1.002	0.07
		Cheek	26740	819	25	13	20.91	21.00	-1.64	0.05	1.021	0.05
		Right	00740	0.1.0	1	25	21.99	22.00	-2.55	0.03	1.002	0.03
LTE Band 26 QPSK (10MHz)	QPSK		26740	819	25	13	20.91	21.00	3.67	0.02	1.021	0.02
		Left Cheek	00740	0.10	1	25	21.99	22.00	-1.28	0.06	1.002	0.06
			26740	819	25	13	20.91	21.00	0.03	0.04	1.021	0.04
		1 - 6 Tu	00740	040	1	25	21.99	22.00	0.97	0.02	1.002	0.02
		Left Tilt	26740	819	25	13	20.91	21.00	-1.07	0.01	1.021	0.01
		Right	11510	2005	1	25	24.26	24.50	1.96	0.01	1.057	0.01
		Cheek	41540	2685	25	13	22.98	23.00	0.14	0.01	1.005	0.01
		Right	44540	0005	1	25	24.26	24.50	-2.34	0.01	1.057	0.01
LTE	QPSK	Tilt	41540	2685	25	13	22.98	23.00	-1.28	0.01	1.005	0.01
Rand	(20MHz)	Left	44540	0005	1	25	24.26	24.50	-1.99	0.01	1.057	0.01
		Left Cheek	41540	2685	25	13	22.98	23.00	0.38	0.01	1.005	0.01
		1 - 0 T"	14546	0005	1	25	24.26	24.50	-1.67	0.01	1.057	0.01
		Left Tilt	41540	2685	25	13	22.98	23.00	-1.82	0.01	1.005	0.01





10.2. Body-Worn 1g SAR Data

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-U p Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
		Front	190	836.6	33.85	34.00	0.18	0.16	1.035	0.17	
0014050	voice	Back	190	836.6	33.85	34.00	-1.40	0.19	1.035	0.20	
GSM850	GPRS	Front	190	836.6	30.72	31.00	-1.17	0.30	1.067	0.32	
	4 slots	Back	190	836.6	30.72	31.00	1.84	0.33	1.067	0.35	
		Front	661	1880	30.27	30.50	-1.52	0.18	1.054	0.19	(50
	voice	Back	661	1880	30.27	30.50	-1.49	0.29	1.054	0.31	
GSM1900	GPRS	Front	661	1880	27.10	27.50	-2.34	0.43	1.096	0.47	
	4 slots	Back	661	1880	27.10	27.50	-1.63	0.49	1.096	0.54	
CDMA	RC3 SO55	Front	384	836.52	23.79	24.00	-1.88	0.02	1.050	0.02	
BC0	SO55	Back	384	836.52	23.79	24.00	-0.43	0.06	1.050	0.06	1.60
WCDMA	5140	Front	9400	1880	23.86	24.00	0.07	0.49	1.033	0.51	
Band II	RMC	Back	9400	1880	23.86	24.00	-0.17	0.53	1.033	0.55	
WCDMA	(3)	Front	1413	1732.6	23.05	23.50	-1.06	0.35	1.109	0.39	
Band IV	RMC	Back	1413	1732.6	23.05	23.50	-0.23	0.38	1.109	0.42	
WCDMA	5140	Front	4182	836.4	23.43	23.50	0.40	0.15	1.016	0.15	
Band V	RMC	Back	4182	836.4	23.43	23.50	0.47	0.14	1.016	0.14	100
2.10	222 441	Front	11	2462	12.42	12.50	-2.72	0.01	1.019	0.01	
2.4G	802.11b	Back	11	2462	12.42	12.50	-3.04	0.03	1.019	0.03	





Band	Mode	Test Positio n with 10mm	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-U p Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
		Cront	19700	1960	1	50	23.87	24.00	0.44	0.32	1.030	0.33
LTE	QPSK	Front	18700	1860	50	25	22.94	23.00	1.66	0.27	1.014	0.27
Band 2	(1.4MHz)	Back	18700	1860	1	50	23.87	24.00	-0.57	0.22	1.030	0.23
		Dack	16700	1000	50	25	22.94	23.00	0.90	0.15	1.014	0.15
		Front	20175	1732.5	1	50	24.05	24.50	-0.91	0.30	1.109	0.33
LTE	QPSK	FIOIIL	20175	1732.5	50	25	22.74	23.00	-0.52	0.23	1.062	0.24
Band 4	(1.4MHz)	Pook	20175	1732.5	1	50	24.05	24.50	-1.90	0.27	1.109	0.30
G		Back	20175	1732.5	50	25	22.74	23.00	-1.47	0.20	1.062	0.21
		Cront	20425	926 F	1	13	22.01	22.50	-1.33	0.37	1.119	0.41
LTE	QPSK	Front	20425	826.5	12	6	21.00	21.50	-2.85	0.31	1.122	0.35
Band 5	(10MHz)	Deel	20425	000.5	1	13	22.01	22.50	-1.39	0.45	1.119	0.50
		Back	20425	826.5	12	6	21.00	21.50	0.88	0.40	1.122	0.45
		/	04.400	0505	1	25	23.84	24.00	0.74	0.03	1.038	0.03
LTE	TE QPSK (10MHz)	Front	21400	2565	50	0	22.71	23.00	-1.33	0.02	1.069	0.02
		Back	ack 21400	0505	1	25	23.84	24.00	-4.40	0.07	1.038	0.07
				2565	50	0	22.71	23.00	-0.07	0.06	1.069	0.06
		Front	22005	707.5	1	13	22.21	22.50	0.18	0.06	1.069	0.06
LTE	QPSK	Front	23095	707.5	12	6	21.13	21.50	0.74	0.04	1.089	0.04
Band 12	(5MHz)	Deel	22005	707.5	1	13	22.21	22.50	0.66	0.11	1.069	0.12
		Back	23095	707.5	12	6	21.13	21.50	-1.07	0.08	1.089	0.09
	120		02005	770.5	O 1	13	22.09	22.50	-1.27	0.07	1.099	0.08
LTE	QPSK	Front	23205	779.5	12	6	20.98	21.00	-2.23	0.04	1.005	0.04
Band 13	(5MHz)	Dest	00005	770.5	1	13	22.09	22.50	-0.77	0.11	1.099	0.12
		Back	23205	779.5	12	6	20.98	21.00	-3.68	0.08	1.005	0.08
G^{\prime}		Cua at	22000	744	1	0	22.22	22.50	0.99	0.07	1.067	0.07
LTE	QPSK	Front	23800	711	25	0	20.93	21.00	-1.47	0.05	1.016	0.05
Band 17	Band QPSK (20MHz)	Dest	22020	744	1	0	22.22	22.50	-3.10	0.11	1.067	0.12
		Back	23800	711	25	0	20.93	21.00	2.04	0.08	1.016	0.08
		Front	264.40	1900	1	5	24.41	24.50	-0.30	0.64	1.021	0.65
LTE	QPSK	Front	26140	1860	50	25	23.39	23.50	-1.67	0.57	1.026	0.58
Band 25	(20MHz)	Hz)	Deals 00440	1000	1	5	24.41	24.50	-2.55	0.73	1.021	0.75
		Back	26140	1860	50	25	23.39	23.50	-0.36	0.68	1.026	0.70



Rand		Front	41540	2685	1	25	24.26	24.50	-2.94	0.01	1.057	0.01
	QPSK	FIOIIL	41340	2003	25	13	22.98	23.00	-1.50	0.01	1.005	0.01
	(20MHz)	Back	41540	2685	1	25	24.26	24.50	0.33	0.03	1.057	0.03
			41540	2000	25	13	22.98	23.00	-1.38	0.02	1.005	0.02

Note:

- Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- 2. Per KDB 447498 D01 v06, body-worn use is evaluated with the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
- Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^[(tune-up limit power(dBm) - Ave.power power (dBm))/10], where tune-up limit is the maximum rated power among all production units.
 Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.
- 4. Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is ≥1.45W/kg.
- 5. Perform a second measurement only if the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is *in its* 3.5w/kg and the ratio of largest to smallest SAR for the original of the original



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10.3. Hotspot 1g SAR Data

Band	Mode	Test Position with10mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-U p Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
		Front	190	836.6	30.72	31.00	-2.58	0.36	1.067	0.38	
CCMOSO	GPRS	Back	190	836.6	30.72	31.00	-1.35	0.37	1.067	0.39	
GSM850	4 slots	Left	190	836.6	30.72	31.00	2.72	0.04	1.067	0.04	
		Bottom	190	836.6	30.72	31.00	-1.03	0.25	1.067	0.27	
		Front	661	1880	27.10	27.50	1.03	0.46	1.096	0.50	
$\langle C_{\rho} \rangle$		Back	661	1880	27.10	27.50	0.06	0.54	1.096	0.59	(40)
		Left	661	1880	27.10	27.50	-0.86	0.23	1.096	0.25	
GSM1900	GPRS 4 slots		512	1850.2	27.10	27.50	-1.41	0.88	1.096	0.96	
		Dattana	661	1880	27.10	27.50	-0.83	0.99	1.096	1.09	
		Bottom -	661	1880	27.10	27.50	-0.58	0.97	1.096	1.06	
			810	1909.8	27.10	27.50	-0.42	0.97	1.096	1.06	
$\langle C_{\mu} \rangle$		Front	384	836.52	23.79	24.00	-1.42	0.03	1.050	0.03	(20)
ODMA DOG	RC3 SO55	Back	384	836.52	23.79	24.00	-0.72	0.06	1.050	0.06	4.00
CDMA BC0	SO55	Left	384	836.52	23.79	24.00	-0.27	0.05	1.050	0.05	1.60
		Bottom	384	836.52	23.79	24.00	-0.93	0.01	1.050	0.01	
		Front	9400	1880	23.86	24.00	-0.28	0.51	1.033	0.53	
		Back	9400	1880	23.86	24.00	-0.39	0.56	1.033	0.58	
		Left	9400	1880	23.86	24.00	-0.27	0.24	1.033	0.25	(, c)
UMTS Band II	RMC	Bottom	9262	1852.4	23.86	24.00	-0.37	0.95	1.033	0.98	
		Bottom	9400	1880	23.86	24.00	-2.56	1.03	1.033	1.06	
		Bottom- Repeated	9400	1880	23.86	24.00	-3.02	0.95	1.033	0.98	
		Bottom	9538	1907.6	23.86	24.00	-2.19	0.97	1.033	1.00	
		Front	1413	1732.6	23.05	23.50	-0.55	0.38	1.109	0.42	
UMTS	DMC	Back	1413	1732.6	23.05	23.50	-0.80	0.40	1.109	0.44	(6
Band IV	RMC	Left	1413	1732.6	23.05	23.50	1.39	0.15	1.109	0.17	
		Bottom	1413	1732.6	23.05	23.50	-0.71	0.51	1.109	0.57	

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		Front	4182	836.4	23.43	23.50	0.49	0.15	1.016	0.15	
UMTS	DMC	Back	4182	836.4	23.43	23.50	0.68	0.15	1.016	0.15	
Band V	RMC	Left	4182	836.4	23.43	23.50	3.37	0.03	1.016	0.03	
		Bottom	4182	836.4	23.43	23.50	0.26	0.06	1.016	0.06	
	((0))	Front	11	2462	12.42	12.50	-3.80	0.02	1.019	0.02	
2.40	802.11b -	Back	11	2462	12.42	12.50	-3.56	0.05	1.019	0.05	
2.4G		Right	11	2462	12.42	12.50	0.17	0.01	1.019	0.01	
(C)		Тор	11	2462	12.42	12.50	2.19	0.01	1.019	0.01	

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	RB allocatio n	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
		Front	18700	1860	1	50	23.87	24.00	-1.50	0.39	1.030	0.40
		FIOR	18700	1000	50	25	22.94	23.00	0.18	0.30	1.014	0.30
		Back	18700	1860	1	50	23.87	24.00	-0.75	0.22	1.030	0.23
LTE Band	QPSK	Dack	16700	1000	50	25	22.94	23.00	0.28	0.16	1.014	0.16
2	(20MHz)	Left	18700	1860	1	50	23.87	24.00	-0.45	0.26	1.030	0.27
		Leit	18700	1000	50	25	22.94	23.00	-1.47	0.20	1.014	0.20
		Bottom	18700	1860	1	50	23.87	24.00	0.13	0.68	1.030	0.70
		Бошот	16700	1000	50	25	22.94	23.00	0.28	0.59	1.014	0.60
	1/0	Front	20175	1732.5	1	50	24.05	24.50	-0.18	0.29	1.109	0.32
		FIOIIL	20175	1732.3	50	25	22.74	23.00	-1.08	0.23	1.062	0.24
		Back	20175	1732.5	1	50	24.05	24.50	-0.14	0.33	1.109	0.37
LTE Band	QPSK		20175	1732.3	50	25	22.74	23.00	-1.78	0.25	1.062	0.27
4	(1.4MHz)	Left	20175	1732.5	1	50	24.05	24.50	-0.43	0.19	1.109	0.21
		Leit	20173	1732.3	50	25	22.74	23.00	0.88	0.13	1.062	0.14
		Bottom	20175	1732.5	1	50	24.05	24.50	0.28	0.61	1.109	0.68
		Bollom	20173	1732.3	50	25	22.74	23.00	1.84	0.50	1.062	0.53
	(.c.	Front	20425	826.5	1	13	22.01	22.50	0.87	0.38	1.119	0.43
		FIOIIL	20425	620.5	12	6	21.00	21.50	0.68	0.33	1.122	0.37
		Back	20425	826.5	1	13	22.01	22.50	2.86	0.50	1.119	0.56
LTE Band	QPSK	Dack	20425	620.5	12	6	21.00	21.50	1.48	0.42	1.122	0.47
5	(5MHz)	Left	20425	826.5	1	13	22.01	22.50	-1.25	0.12	1.119	0.13
		Leit	20425	020.5	12	6	21.00	21.50	1.46	0.08	1.122	0.09
		Pottom	20425	826.5	1	13	22.01	22.50	0.28	0.27	1.119	0.30
		Bottom	20423	020.5	12	6	21.00	21.50	1.66	0.22	1.122	0.25
	•						•	•				

Т	C	T	通	测	检	测
			TESTING	CENTE	RE TECH	NOLOGY

	_	12011110 0	LIVINE ILOIN						report	110 10	1130014	_0/0	
		Front	21400	2565	1	25	23.84	24.00	-2.54	0.03	1.038	0.03	
		FIOII	21400	2505	50	0	22.71	23.00	-1.36	0.01	1.069	0.01	
G^{\prime}		Back	21400	2565	1	25	23.84	24.00	0.96	0.08	1.038	0.08	
LTE Band	QPSK	Dack	21400	2505	50	0	22.71	23.00	-1.28	0.08	1.069	0.09	
7	(10MHz)	Left	21400	2565	1	25	23.84	24.00	0.25	0.02	1.038	0.02	
		Leit	21400	2505	50	0	22.71	23.00	-2.69	0.01	1.069	0.01	
	(c)	Bottom	21400	2565	1	25	23.84	24.00	-2.71	0.05	1.038	0.05	
		BOILOITI	21400	2565	50	0	22.71	23.00	0.39	0.03	1.069	0.03	
		Front	23095	707.5	1	13	22.21	22.50	1.98	0.05	1.069	0.05	
		FIOIII	23093	707.5	12	6	21.13	21.50	-2.51	0.03	1.089	0.03	
		Back	23095	707 F	1	13	22.21	22.50	-0.65	0.11	1.069	0.12	
LTE	QPSK	Dack	23093	707.5	12	6	21.13	21.50	0.17	0.08	1.089	0.09	
Band 12	(5MHz)	Left	22005	707 F	1	13	22.21	22.50	0.68	0.02	1.069	0.02	
		Leit	23095	707.5	12	6	21.13	21.50	-3.68	0.01	1.089	0.01	
		Dottom	22005	707 5	1	13	22.21	22.50	2.76	0.04	1.069	0.04	
		Bottom	23095	707.5	12	6	21.13	21.50	0.47	0.03	1.089	0.03	
		Front	22205	770 5	1	13	22.09	22.50	-2.38	0.08	1.099	0.09	
		Front	23205	779.5	12	6	20.98	21.00	-1.20	0.04	1.005	0.04	
		Dook	22205	770 5	1	13	22.09	22.50	-0.64	0.11	1.099	0.12	
LTE	Pand QPSK	Back	23205	779.5	12	6	20.98	21.00	0.02	0.09	1.005	0.09	
13	(5MHz)	Left	Left	22205	770 F	1	13	22.09	22.50	1.62	0.05	1.099	0.05
		Leit	23205	779.5	12	6	20.98	21.00	1.38	0.03	1.005	0.03	
		Dottom	22205	770 5	1	13	22.09	22.50	0.25	0.08	1.099	0.09	
	(c)	Bottom	23205	779.5	12	6	20.98	21.00	1.08	0.05	1.005	0.05	
		Frant	22000	744	1	0	22.22	22.50	-1.67	0.08	1.067	0.09	
		Front	23800	711	25	0	20.93	21.00	-1.28	0.05	1.016	0.05	
		Deal	22000	744	1	0	22.22	22.50	-0.18	0.11	1.067	0.12	
LTE	QPSK	Back	23800	711	25	0	20.93	21.00	1.18	0.09	1.016	0.09	
Band 17	(20MHz)	1.54	02000	744	1	0	22.22	22.50	-1.74	0.03	1.067	0.03	
		Left	23800	711	25	0	20.93	21.00	0.72	0.02	1.016	0.02	
		Dettern	23800	744	1	0	22.22	22.50	1.62	0.08	1.067	0.09	
		Bottom		711	25	0	20.93	21.00	0.45	0.07	1.016	0.07	
	120)	004.40	4000) 1	5	24.41	24.50	-0.94	0.65	1.021	0.66	
		Front	26140	1860	50	25	23.39	23.50	-0.52	0.55	1.026	0.56	
		Dool	264.40	1000	1	5	24.41	24.50	-0.90	0.74	1.021	0.76	
LTE	QPSK	Back	26140	1860	50	25	23.39	23.50	2.87	0.68	1.026	0.70	
Band 25	(20MHz)	1.69	204.42	4000	1	5	24.41	24.50	1.42	0.38	1.021	0.39	
		Left	26140	1860	50	25	23.39	23.50	-3.66	0.33	1.026	0.34	
		D-#	004.40	4000	1	5	24.41	24.50	1.94	0.19	1.021	0.19	
		Bottom	26140	1860	50	25	23.39	23.50	2.13	0.15	1.026	0.15	

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		Front	41540	2685	1	25	24.26	24.50	-1.38	0.02	1.057	0.02
.cî))		FIOIL	41340	2000	25	13	22.98	23.00	2.64	0.01	1.005	0.01
			41540	2685	1	25	24.26	24.50	1.62	0.03	1.057	0.03
LTE Band	QPSK		41340	2000	25	13	22.98	23.00	2.90	0.02	1.005	0.02
41	(10MHz)		41540	2605	1	25	24.26	24.50	0.82	0.01	1.057	0.01
		Leit	41540	2685	25	13	22.98	23.00	1.32	0.01	1.005	0.01
		Dottom	44540	2685	1	25	24.26	24.50	-3.36	0.05	1.057	0.05
		Bottom	Bottom 41540	2000	25	13	22.98	23.00	1.06	0.03	1.005	0.03

Note:

- Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- 2. Per KDB 447498 D01 v06, body-worn with hotspot use is evaluated with the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
- Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^[(tune-up limit power(dBm) Ave. power (dBm))/10], where tune-up limit is the maximum rated power among all production units.
 Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.
- 4. Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is ≥1.45W/kg.
- 5. Perform a second measurement only if the original, first and second repeated measurement is ≱.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20.





10.4. Simultaneous Transmission Conclusion

Multi-Band Simultaneous Transmission Considerations

According to FCC KDB Publication 447498 D01v05r02, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

Path 1 Path 2
GSM/WCDMA WIFI/BT
/CDMA/LTE

Simultaneous Transmission Paths

Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v05r02, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v05r02 4.3.2.2), the following equation must be used to estimate the standalone 1g SAR and 10g extremity SAR for simultaneous transmission assessment involving that transmitter.

Estimated SAR =
$$\frac{\sqrt{f(GHz)}}{7.5(18.75)} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. tune-up	Exposure Position	Head	Body -worn
ivioue	Power (dBm)	Test Distance (mm)	5	5
BT	9	Estimated SAR (W/kg)	0.33	0.33
WIFI5G	7.9	Estimated SAR (W/kg)	0.39	0.39

Note:

- 1. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according is applied to determine estimated SAR.
- 2. (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
- 3. Next to the mouth exposure requires 1-g SAR, and the wrist-worn condition requires 10-g extremity SAR.

Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Configuration	Head	Body-Worn	Hotspot
1	GSM850/1900(Voice)+WIFI2.4G/5G	YES	YES	NO
2	GPRS 850/1900(DATA)+WIFI2.4G/5G	NO	YES	YES
3	WCDMA+ WIFI2.4G/5G	YES	YES	YES
4.	LTE+WIFI2.4G/5G	YES	YES	YES
5.	GSM850/1900(Voice)+BT	YES	YES	NO
6	GPRS/EDGE 850/1900(DATA)+BT	YES	YES	NO
7.	WCDMA+ BT	YES	YES	NO
8.	LTE+BT	YES	YES	NO

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10.5. SAR Simultaneous Transmission Analysis

Donal	Toot Docition		Scale	d SAR		ΣSAR	SPLSR	Damark
Band	Test Position	Head	WIFI2.4G	WIFI 5G	BT	(W/kg)	SPLSK	Remark
	Left Cheek	0.07	0.01	0.39	0.33	0.46	N/A	N/A
GSM850	Left Tilt	0.03	0.01	0.39	0.33	0.42	N/A	N/A
(voice)	Right Cheek	0.08	0.01	0.39	0.33	0.47	N/A	N/A
	Right Tilt	0.04	0.01	0.39	0.33	0.43	N/A	N/A
	Left Cheek	0.07	0.01	0.39	0.33	0.46	N/A	N/A
GSM1900	Left Tilt	0.03	0.01	0.39	0.33	0.42	N/A	N/A
(voice)	Right Cheek	0.09	0.01	0.39	0.33	0.48	N/A	N/A
	Right Tilt	0.03	0.01	0.39	0.33	0.42	N/A	N/A
	Left Cheek	0.01	0.01	0.39	0.33	0.40	N/A	N/A
CDMA	Left Tilt	0.01	0.01	0.39	0.33	0.40	N/A	N/A
BC0	Right Cheek	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Right Tilt	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Left Cheek	0.15	0.01	0.39	0.33	0.54	N/A	N/A
WCDMA	Left Tilt	0.06	0.01	0.39	0.33	0.45	N/A	N/A
Band II	Right Cheek	0.18	0.01	0.39	0.33	0.57	N/A	N/A
	Right Tilt	0.08	0.01	0.39	0.33	0.47	N/A	N/A
	Left Cheek	0.07	0.01	0.39	0.33	0.46	N/A	N/A
WCDMA	Left Tilt	0.02	0.01	0.39	0.33	0.41	N/A	N/A
Band IV	Right Cheek	0.07	0.01	0.39	0.33	0.46	N/A	N/A
	Right Tilt	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Left Cheek	0.04	0.01	0.39	0.33	0.43	N/A	N/A
WCDMA	Left Tilt	0.01	0.01	0.39	0.33	0.40	N/A	N/A
Band V	Right Cheek	0.05	0.01	0.39	0.33	0.44	N/A	N/A
	Right Tilt	0.02	0.01	0.39	0.33	0.41	N/A	N/A



		RB		Scal	led				
Band	Test Position	allocation	Head	WIFI2.4G	WIFI5G	Bluetooth	Σ SAR (W/kg)	SPLSR	Remark
	Right	1	0.13	0.01	0.39	0.33	0.52	N/A	N/A
(20	Cheek	50	0.09	0.01	0.39	0.33	0.48	N/A	N/A
	Dialet Tilt	1	0.03	0.01	0.39	0.33	0.42	N/A	N/A
LTE Band 2	Right Tilt	50	0.02	0.01	0.39	0.33	0.41	N/A	N/A
QPSK (20MHz)	Left	1	0.12	0.01	0.39	0.33	0.51	N/A	N/A
	Cheek	50	0.09	0.01	0.39	0.33	0.48	N/A	N/A
	1 oft T:14	1	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Left Tilt	50	0.02	0.01	0.39	0.33	0.41	1 N/A 1 N/A 7 N/A 4 N/A 2 N/A 1 N/A 6 N/A 4 N/A 1 N/A 0 N/A	N/A
	Right	1	0.08	0.01	0.39	0.33	0.47	N/A	N/A
	Cheek	50	0.05	0.01	0.39	0.33	0.44	N/A	N/A
	D: L. Til.	1	0.03	0.01	0.39	0.33	0.42	N/A	N/A
LTE Band 4	Right Tilt	50	0.02	0.01	0.39	0.33	0.41	N/A	N/A
QPSK (20MHz)	Left	1	0.07	0.01	0.39	0.33	0.46	N/A	N/A
	Cheek	50	0.05	0.01	0.39	0.33	0.44	N/A	N/A
		1	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Left Tilt	50	0.01	0.01	0.39	0.33	0.40	N/A	N/A
(, 0	Right	1	0.1	0.01	0.39	0.33	0.49	N/A	N/A
	Cheek	12	0.08	0.01	0.39	0.33	0.47	N/A	N/A
		1	0.04	0.01	0.39	0.33	0.43	N/A	N/A
LTE Band 5	Right Tilt	12	0.02	0.01	0.39	0.33	0.41	N/A	N/A
QPSK (5MHz)	Left	C1	0.1	0.01	0.39	0.33	0.49	N/A	N/A
	Cheek	12	0.07	0.01	0.39	0.33	0.46	N/A	N/A
	1 oft T:14	1	0.04	0.01	0.39	0.33	0.43	N/A	N/A
	Left Tilt	12	0.03	0.01	0.39	0.33	0.42	N/A	N/A
K	Right	1	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Cheek	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Dist. Til	1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 7	Right Tilt	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 7 QPSK (10MHz)	Left	1	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Cheek	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
		1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Left Tilt	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A



LTE Band 12 QPSK (20MHz)	Right Cheek Light Tilt - Left Cheek Left Tilt -	1 12 1 12 1	0.03 0.02 0.02 0.01	0.01 0.01 0.01	0.39 0.39	0.33 0.33	0.42	N/A N/A	N/A N/A
LTE Band 12 QPSK (20MHz) LTE Band 13	Cheek tight Tilt Left Cheek	1 12 1	0.02		0.39	0.33	0.41	N/A	N/A
LTE Band 12 QPSK (20MHz) (C) L LTE Band 13	Left _Cheek	12		0.01					
LTE Band 12 QPSK (20MHz) (Left _Cheek	1	0.01		0.39	0.33	0.41	N/A	N/A
(20MHz)	Cheek			0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 13	Cheek		0.02	0.01	0.39	0.33	0.41	N/A	N/A
LTE Band 13	eft Tilt	12	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 13	eff Tilf L	1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 13	_011 1111	12	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 13	Right	1	0.03	0.01	0.39	0.33	0.42	N/A	N/A
LTE Band 13	Cheek	12	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 13		1)	0.01	0.01	0.39	0.33	0.40	N/A	N/A
OPSK	Right Tilt	12	0.01	0.01	0.39	0.33	0.40	N/A	N/A
(5MHz)	Left	1	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Cheek	12	0.01	0.01	0.39	0.33	0.40	N/A	N/A
		1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
L	_eft Tilt	12	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Right	1	0.03	0.01	0.39	0.33	0.42	N/A	N/A
	Cheek	25	0.02	0.01	0.39	0.33	0.41	N/A	N/A
		1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 17	Right Tilt	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
QPSK (10MHz)	l off	1	0.02	0.01	0.39	0.33	0.41	N/A	N/A
	Left Cheek	25	0.02	0.01	0.39	0.33	0.41	N/A	N/A
		1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
L	_eft Tilt	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
2	Di mlat	1	0.16	0.01	0.39	0.33	0.55	N/A	N/A
	Right Cheek	50	0.12	0.01	0.39	0.33	0.51	N/A	N/A
		1	0.08	0.01	0.39	0.33	0.47	N/A	N/A
LTE Band 25	light Tilt	50	0.06	0.01	0.39	0.33	0.45	N/A	N/A
QPSK (20MHz)	1 -6	1	0.14	0.01	0.39	0.33	0.53	N/A	N/A
	Left Cheek	50	0.11	0.01	0.39	0.33	0.50	N/A	N/A
		1	0.07	0.01	0.39	0.33	0.46	N/A	N/A
L	_eft Tilt	50	0.05	0.01	0.39	0.33	0.44	N/A	N/A
	Dialet	1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Right Cheek	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
		1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 41	Right Tilt	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
QPSK (10MHz)	1 . "	1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
	Left Cheek	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
		1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
L	_eft Tilt	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A



Daniel	Took Dooltion		Scale	d SAR		ΣSAR	CDI CD	Damani
Band	Test Position	Body-Worn	WIFI2.4G	WIFI 5G	ВТ	(W/kg)	SPLSR	Remark
GSM850	Front	0.17	0.01	0.39	0.33	0.56	N/A	N/A
(voice)	Back	0.2	0.03	0.39	0.33	0.59	N/A	N/A
GSM850	Front	0.32	0.01	0.39	0.33	0.71	N/A	N/A
(GPRS 4slot	Back	0.35	0.03	0.39	0.33	0.74	N/A	N/A
GSM1900	Front	0.19	0.01	0.39	0.33	0.58	N/A	N/A
(voice)	Back	0.31	0.03	0.39	0.33	0.70	N/A	N/A
GSM1900	Front	0.47	0.01	0.39	0.33	0.86	N/A	N/A
(GPRS 4slot)	Back	0.54	0.03	0.39	0.33	0.93	N/A	N/A
SDMA BCO	Front	0.02	0.01	0.39	0.33	0.41	N/A	N/A
CDMA BC0	Back	0.06	0.03	0.39	0.33	0.45	N/A	N/A
WCDMA	Front	0.51	0.01	0.39	0.33	0.90	N/A	N/A
Band II	Back	0.55	0.03	0.39	0.33	0.94	N/A	N/A
WCDMA	Front	0.39	0.01	0.39	0.33	0.78	N/A	N/A
Band IV	Back	0.42	0.03	0.39	0.33	0.81	N/A	N/A
WCDMA	Front	0.15	0.01	0.39	0.33	0.54	N/A	N/A
Band V	Back	0.14	0.03	0.39	0.33	0.53	N/A	N/A





		RB		Scale	ed				
Band	Test Position	allocation	Body-Worn	WIFI2.4G	WIFI 5G	Bluetooth	Σ SAR (W/kg)	SPLSR	Remark
		1	0.33	0.01	0.39	0.33	0.72	N/A	N/A
LTE Band 2	Front	50	0.27	0.01	0.39	0.33	0.66	N/A	N/A
QPSK (20MHz)	<u> </u>	1	0.23	0.03	0.39	0.33	0.62	N/A	N/A
	Back	50	0.15	0.03	0.39	0.33	0.54	N/A	N/A
· · ·	_	1	0.33	0.01	0.39	0.33	0.72	N/A	N/A
LTE Band 4	Front	50	0.24	0.01	0.39	0.33	0.63	N/A	N/A
QPSK (20MHz)		1	0.3	0.03	0.39	0.33	0.69	N/A	N/A
	Back	50	0.21	0.03	0.39	0.33	0.60	N/A	N/A
	K_	1	0.41	0.01	0.39	0.33	0.80	N/A	N/A
LTE Band 5	Front	12	0.35	0.01	0.39	0.33	0.74	N/A	N/A
QPSK (5MHz)		1	0.5	0.03	0.39	0.33	0.89	N/A	N/A
	Back	12	0.45	0.03	0.39	0.33	0.84	N/A	N/A
	_	1	0.03	0.01	0.39	0.33	0.42	N/A	N/A
LTE Band 7	Front	25	0.02	0.01	0.39	0.33	0.41	N/A	N/A
QPSK (10MHz)		1	0.07	0.03	0.39	0.33	0.46	N/A	N/A
,	Back	25	0.06	0.03	0.39	0.33	0.45	N/A	N/A
		1	0.06	0.01	0.39	0.33	0.45	N/A	N/A
LTE Band 12	Front	12	0.04	0.01	0.39	0.33	0.43	N/A	N/A
QPSK (5MHz)		1	0.12	0.03	0.39	0.33	0.51	N/A	N/A
	Back	12	0.09	0.03	0.39	0.33	0.48	N/A	N/A
	_	1	0.08	0.01	0.39	0.33	0.47	N/A	N/A
LTE Band 13	Front	12	0.04	0.01	0.39	0.33	0.43	N/A	N/A
QPSK (5MHz)		1	0.12	0.03	0.39	0.33	0.51	N/A	N/A
	Back	12	0.08	0.03	0.39	0.33	0.47	N/A	N/A
(C		1	0.07	0.01	0.39	0.33	0.46	N/A	N/A
LTE Band 17	Front	25	0.05	0.01	0.39	0.33	0.44	N/A	N/A
QPSK (10MHz)		1	0.12	0.03	0.39	0.33	0.51	N/A	N/A
	Back	25	0.08	0.03	0.39	0.33	0.47	N/A	N/A
		(201)	0.65	0.01	0.39	0.33	1.04	N/A	N/A
LTE Band 25	Front	50	0.58	0.01	0.39	0.33	0.97	N/A	N/A
QPSK (20MHz)	_	1	0.75	0.03	0.39	0.33	1.14	N/A	N/A
	Back	50	0.7	0.03	0.39	0.33	1.09	N/A	N/A
1/2	<u>,) </u>	1	0.01	0.01	0.39	0.33	0.40	N/A	N/A
LTE Band 41	Front	25	0.01	0.01	0.39	0.33	0.40	N/A	N/A
QPSK (10MHz)	_	1	0.03	0.03	0.39	0.33	0.40	N/A	N/A
	Back	25	0.02	0.03	0.39	0.33	0.40	N/A	N/A



	T (5 %)		Scaled SAR		ΣSAR	001.00	_
Band	Test Position	Hotspot	WIFI2.4G	WIFI 5G	(W/kg)	N/A N/A	Remark
	Front	0.38	0.02	0.39	0.77	N/A	N/A
	Back	0.39	0.05	0.39	0.78	N/A	N/A
GSM850	Left	0.04	1	0.39	0.43	N/A	N/A
(GPRS)	Right	, 50	0.01	0.39	0.39	N/A	N/A
	Bottom	0.27	/	0.39	0.66	N/A	N/A
	Тор	/	0.01	0.39	0.39	N/A	N/A
	Front	0.5	0.02	0.39	0.89	N/A	N/A
	Back	0.59	0.05	0.39	0.98	N/A	N/A
	Left	0.25	/	0.39	0.64	N/A	N/A
	Right	/	0.01	0.39	0.39	N/A	N/A
GSM1900(G PRS)		0.96	1	0.39	1.35	N/A	N/A
11(0)		1.09	0.01	0.39	1.48	N/A	N/A
	Bottom	1.06	0.02	0.39	1.45	N/A	N/A
		1.06	0.05	0.39	1.45	N/A	N/A
	Тор	6) /	1(6)	0.39	0.39	N/A	N/A
	Front	0.03	0.01	0.39	0.42	N/A	N/A
	Back	0.06	/	0.39	0.45	N/A	N/A
WCDMA	Left	0.05	0.01	0.39	0.44	N/A	N/A
Band II	Right	1 60	0.02	0.39	0.39	N/A	N/A
	Bottom	0.01	0.05	0.39	0.4	N/A	N/A
	Тор	/	/	0.39	0.39	N/A	N/A
	Front	0.53	0.01	0.39	0.92	N/A	N/A
	Back	0.58	/ (0.39	0.97	N/A	N/A
	Left	0.25	0.01	0.39	0.64	N/A	N/A
	Right	/	0.02	0.39	0.39	N/A	N/A
WCDMA Band IV	-(1)	0.98	0.05	0.39	1.37	N/A	N/A
	D	1.06) 1	0.39	1.45	N/A	N/A
	Bottom	0.98	0.01	0.39	1.37	N/A	N/A
		1.00	/	0.39	1.39	N/A	N/A
	Тор	G) /	0.01	0.39	0.39	N/A	N/A
	Front	0.42	0.02	0.39	0.81	N/A	N/A
	Back	0.44	0.05	0.39	0.83	N/A	N/A
WCDMA	Left	0.17	1	0.39	0.56	N/A	N/A
Band V	Right	/ (.c	0.01	0.39	0.39	N/A	N/A
	Bottom	0.57	1	0.39	0.96	N/A	N/A
	Тор	/	0.01	0.39	0.39	N/A	N/A



		RB		Scaled				
Band	Test Position	allocation	Hotspot	WIFI2.4G	WIFI5G	Σ SAR (W/kg)	N/A	Remark
	Facility	1	0.4	0.02	0.39	0.79	N/A	N/A
	Front	50	0.3	0.02	0.39	0.69	N/A	N/A
	Dark	1	0.23	0.05	0.39	0.62	N/A	N/A
	Back	50	0.16	0.05	0.39	0.55	N/A	N/A
	1 -61	_1	0.27		0.39	0.66	N/A	N/A
LTE Band 2	Left	50	0.2	(207)	0.39	0.59	N/A	N/A
QPSK (20MHz)	D'-l-t	1	/	0.01	0.39	0.39	N/A	N/A
	Right	50	/	0.01	0.39	0.39	N/A	N/A
	- Ka	1	0.7	/	0.39	0.39 N/A 1.09 N/A 0.99 N/A 0.39 N/A 0.39 N/A	N/A	
	Bottom	50	0.6	/	0.39	0.99	N/A	N/A
	_	1	1	0.01	0.39	0.39	N/A	N/A
	Тор	50	/	0.01	0.39	0.39	N/A	N/A
		1	0.32	0.02	0.39	0.71	N/A	N/A
	Front	50	0.24	0.02	0.39	0.63	N/A	N/A
		1	0.37	0.05	0.39	0.76	N/A	N/A
	Back	50	0.27	0.05	0.39	0.66	N/A	N/A
		1	0.21	/	0.39	0.6	N/A	N/A
LTE Band 4	Left	50	0.14	/	0.39	0.53	N/A	N/A
QPSK (20MHz)	Diete	1	/	0.01	0.39	0.39	N/A	N/A
	Right	50	/	0.01	0.39	0.39	N/A	N/A
	Dattern	(1)	0.68		0.39	1.07	N/A	N/A
	Bottom	50	0.53		0.39	0.92	N/A	N/A
	T	1	/	0.01	0.39	0.39	N/A	N/A
	Тор	50	/	0.01	0.39	0.39	N/A	N/A



	_	_1	0.43	0.02	0.39	0.82	N/A	N/A
	Front	12	0.37	0.02	0.39	0.76	N/A	N/A
		1	0.56	0.05	0.39	0.95	N/A	N/A
	Back	12	0.47	0.05	0.39	0.86	N/A	N/A
		1	0.13	/	0.39	0.52	N/A	N/A
LTE Band 5	Left	12	0.09	/	0.39	0.48	N/A	N/A
QPSK (5MHz)	D: 1.	1		0.01	0.39	0.39	N/A	N/A
	Right	12	/	0.01	0.39	0.39	N/A	N/A
	5	1	0.3		0.39	0.69	N/A	N/A
	Bottom	12	0.25	(0)	0.39	0.64	N/A	N/A
	_	1	/	0.01	0.39	0.39	N/A	N/A
	Тор	12	/	0.01	0.39	0.39	N/A	N/A
		1	0.03	0.02	0.39	0.42	N/A	N/A
	Front	25	0.01	0.02	0.39	0.4	N/A	N/A
		1	0.08	0.05	0.39	0.47	N/A	N/A
	Back	25	0.09	0.05	0.39	0.48	N/A	N/A
		1	0.02		0.39	0.41	N/A	N/A
LTE Band 7	Left	25	0.01		0.39	0.4	N/A	N/A
QPSK (10MHz)	D: 1.	1	/	0.01	0.39	0.39	N/A	N/A
	Right	25		0.01	0.39	0.39	N/A	N/A
	<u>()</u>	1	0.05	/	0.39	0.44	N/A	N/A
	Bottom	25	0.03	/	0.39	0.42	N/A	N/A
	_	1	/	0.01	0.39	0.39	N/A	N/A
	Тор	25	1	0.01	0.39	0.39	N/A	N/A
	Frant	(0)	0.05	0.02	0.39	0.44	N/A	N/A
	Front	13	0.03	0.02	0.39	0.42	N/A	N/A
	Deal	0	0.12	0.05	0.39	0.51	N/A	N/A
	Back	13	0.09	0.05	0.39	0.48	N/A	N/A
) , , , ,	0	0.02	/	0.39	0.41	N/A	N/A
LTE Band 12	Left	13	0.01	/	0.39	0.4	N/A	N/A
QPSK (5MHz)	Diaht	0	/	0.01	0.39	0.39	N/A	N/A
(5.0.12)	Right	13	/	0.01	0.39	0.39	N/A	N/A
	Dotter	0	0.04		0.39	0.43	N/A	N/A
	Bottom	13	0.03	/	0.39	0.42	N/A	N/A
	Т	0	1	0.01	0.39	0.39	N/A	N/A
	Тор	13		0.01	0.39	0.39	N/A	N/A

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7.	Front	0	0.09	0.02	0.39	0.48	N/A	N/A
	Front	13	0.04	0.02	0.39	0.43	N/A	N/A
	D I.	0	0.12	0.05	0.39	0.51	N/A	N/A
	Back	13	0.09	0.05	0.39	0.48	N/A	N/A
	Left	0	0.05	/	0.39	0.44	N/A	N/A
LTE Band 13 QPSK (5MHz)		13	0.03	/	0.39	0.42	N/A	N/A
	Right	0		0.01	0.39	0.39	N/A	N/A
		13	1	0.01	0.39	0.39	N/A	N/A
	D. //	0	0.09		0.39	0.48	N/A	N/A
	Bottom	13	0.05	(0)	0.39	0.44	N/A	N/A
	_	0	/	0.01	0.39	0.39	N/A	N/A
	Тор	13	/	0.01	0.39	0.39	N/A	N/A
		1	0.09	0.02	0.39	0.48	N/A	N/A
	Front	25	0.05	0.02	0.39	0.44	N/A	N/A
	Back	1	0.12	0.05	0.39	0.51	N/A	N/A
		25	0.09	0.05	0.39	0.48	N/A	N/A
	Left	(1)	0.03		0.39	0.42	N/A	N/A
LTE Band 17 QPSK (20MHz)		25	0.02		0.39	0.41	N/A	N/A
	Right	1	/	0.01	0.39	0.39	N/A	N/A
		25	1	0.01	0.39	0.39	N/A	N/A
	Bottom	1	0.09	/	0.39	0.48	N/A	N/A
		25	0.07	/	0.39	0.46	N/A	N/A
	Тор	1	/	0.01	0.39	0.39	N/A	N/A
		25	/	0.01	0.39	0.39	N/A	N/A
	_ ,	(1)	0.66	0.02	0.39	1.05	N/A	N/A
	Front	50	0.56	0.02	0.39	0.95	N/A	N/A
	Back	1	0.76	0.05	0.39	1.15	N/A	N/A
		50	0.7	0.05	0.39	1.09	N/A	N/A
	Left	1	0.39	/	0.39	0.78	N/A	N/A
LTE Band 25		50	0.34	/	0.39	0.73	N/A	N/A
QPSK	Right	1	/	0.01	0.39	0.39	N/A	N/A
(20MHz)		50	/	0.01	0.39	0.39	N/A	N/A
	Bottom	1	0.19		0.39	0.58	N/A	N/A
		50	0.15	1	0.39	0.54	N/A	N/A
	_	1	/	0.01	0.39	0.39	N/A	N/A
	Тор	50	1	0.01	0.39	0.39	N/A	N/A

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LTE Band 41 QPSK (10MHz)	Front	1	0.02	0.02	0.39	0.41	N/A	N/A
		25	0.01	0.02	0.39	0.4	N/A	N/A
	Back	1	0.03	0.05	0.39	0.42	N/A	N/A
		25	0.02	0.05	0.39	0.41	N/A	N/A
	Left	1	0.01	/	0.39	0.4	N/A	N/A
		25	0.01	/	0.39	0.4	N/A	N/A
	Right	1	7	0.01	0.39	0.39	N/A	N/A
		25	/	0.01	0.39	0.39	N/A	N/A
	Bottom	1	0.05		0.39	0.44	N/A	N/A
		25	0.03	(30)	0.39	0.42	N/A	N/A
	Тор	1	/	0.01	0.39	0.39	N/A	N/A
		25	/	0.01	0.39	0.39	N/A	N/A

Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore measured volumetric simultaneous SAR summation is not required per FCC KDB Publication 447498 D01v05r02.





10.6. Measurement Uncertainty (450MHz-3GHz)

U	NCERTAI	NIY EVAL	UATION FO	JK H	EADSET	SAR			7
Uncertainty Component	Descriptio n	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	٧
Measurement system							I		ı
Probe calibration	7.2.1	5.8	N	1	1 1/2	1 1/2	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	(1-C _{p)} ^{1/2}	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1 /	1	2.71	2.71	∞
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	(01)	0.58	0.58	∞
Modulation Response	7.2.1.3	3	N	1	1	1	3.00	3.00	∞
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	.0	R	$\sqrt{3}$. 1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	(1)	0.81	0.81	∞
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	∞
Test sample related									
Test sample positioning	7.2.2.4.4	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	7.2.2.4.2 7.2.2.4.3	3	N	1	1	1	3.00	3.00	∞
output power variation-SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	7.2.5	2	R	$\sqrt{3}$	1	1/	1.15	1.15	∞
Phantom and tissue parame	eters								
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	~
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	∞
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	∝
Combined standard uncertainty			RSS				10.83	10.54	
Expanded uncertainty (95%CONFIDENCEINTER VAL			k				21.26	21.08	



	UNCERT	AINTY FO	R PERFOR	MAN	CE CHE	CK			
Uncertainty Component	Description	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	V
Measurement system		T		1 .			I		
Probe calibration	7.2.1	5.8	N	1	1	1	5.8	5.8	000
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	(1-C _{p)} ^{1/2}	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	8
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	$\langle O_1 \rangle$	0.58	0.58	∞
Modulation Response	7.2.1.3	3	N	1	1	1	0.00	0.00	~
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	\propto
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	X
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	oc
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	×
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	(1)	0.81	0.81	8
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	٥
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	8
Dipole		1				1			
Deviation of experimental source from numerical source		4	N	1	1	1	4.00	4.00	o
Input power and SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	×
Dipole axis to liquid distance		2	R	$\sqrt{3}$	1	1			×
Phantom and tissue parar	neters								
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	o
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	8
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	X
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	0
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	0
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	0
Combined standard uncertainty			RSS				10.15	10.05	
Expanded uncertainty (95%CONFIDENCEINTE RVAL			k				20.29	20.10	



10.7. Test Equipment List

	•					
(\mathcal{L}°)		$(\mathcal{L}G)$		Calibration		
Test Equipment	Manufacturer	Model	Serial Number	Calibration Date (D.M.Y)	Calibration Due (D.M.Y)	
PC	Lenovo	H3050	N/A	N/A	N/A	
Signal Generator	Angilent	N5182A	MY47070282	Sep. 28, 2019	Sep. 27, 2020	
Multimeter	Keithley	Multimeter 2000	4078275	Sep. 28, 2019	Sep. 27, 2020	
Network Analyzer	Agilent	8753E	US38432457	Sep. 28, 2019	Sep. 27, 2020	
Wireless Communication Test Set	R&S	CMU200	111382	Sep. 28, 2019	Sep. 27, 2020	
Wideband Radio Communication Tester	R&S	CMW500	114220	Sep. 28, 2019	Sep. 27, 2020	
Power Meter	Agilent	E4418B	GB43312526	Sep. 28, 2019	Sep. 27, 2020	
Power Meter	Agilent	E4416A	MY45101555	Sep. 28, 2019	Sep. 27, 2020	
Power Meter	Agilent	N1912A	MY50001018	Sep. 28, 2019	Sep. 27, 2020	
Power Sensor	Agilent	E9301A	MY41497725	Sep. 28, 2019	Sep. 27, 2020	
Power Sensor	Agilent	E9327A	MY44421198	Sep. 28, 2019	Sep. 27, 2020	
Power Sensor	Agilent	E9323A	MY53070005	Sep. 28, 2019	Sep. 27, 2020	
Power Amplifier	PE	PE15A4019	112342	N/A	N/A	
Directional Coupler	Agilent	722D	MY52180104	N/A	N/A	
Attenuator	Chensheng	FF779	134251	N/A	N/A	
E-Field PROBE	MVG	SSE5	SN 07/15 EP248	Jan. 09, 2019	Jan. 08, 2020	
DIPOLE 835	MVG	SID835	SN 16/15 DIP 0G835-369	Jun. 05, 2018	Jun. 04, 2021	
DIPOLE 1800	MVG	SID 1800	SN 16/15 DIP 1G800-371	Jun. 05, 2018	Jun. 04, 2021	
DIPOLE 1900	MVG	SID1900	SN 16/15 DIP 1G900-372	Jun. 05, 2018	Jun. 04, 2021	
DIPOLE 2450	MVG	SID 2450	SN 16/15 DIP 2G450-374	Jun. 05, 2018	Jun. 04, 2021	
DIPOLE 2600	MVG	SID 2600	SN 16/15 DIP 2G600-375	Jun. 05, 2018	Jun. 04, 2021	
Limesar Dielectric Probe	MVG	SCLMP	SN 19/15 OCPG71	Jun. 05, 2018	Jun. 04, 2021	
Communication Antenna	MVG	ANTA59	SN 39/14 ANTA59	N/A	N/A	
Mobile Phone Position Device	MVG	MSH101	SN 19/15 MSH101	N/A	N/A	
Dummy Probe	MVG	DP66	SN 13/15 DP66	N/A	N/A	
SAM PHANTOM	MVG	SAM120	SN 19/15 SAM120	N/A	N/A	
PHANTOM TABLE	MVG	TABP101	SN 19/15 TABP101	N/A	N/A	
Robot TABLE	MVG	TABP61	SN 19/15 TABP61	N/A	N/A	
6 AXIS ROBOT	KUKA	KR6-R900	501822	N/A	N/A	

Note: 1.N/A means this equipment no need to calibrate

- 2.Each Time means this device need to calibrate every use time
- 3. The dipole was not damaged properly repaired.
- 4. The measured SAR deviates from the calibrated SAR value by less than 10%
- 5. The most recent return-loss result meets the required 20 dB minimum return-loss requirement
- 6. The most recent measurement of the real or imaginary parts of the impedance deviates by less than 5 Ω from the previous measurement.



11. System Check Results

Date of measurement: 06/17/2019 Test mode: 835 (Head)

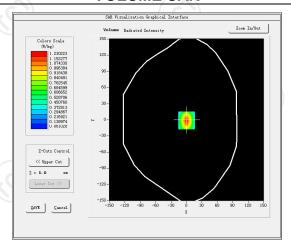
Product Description: Validation

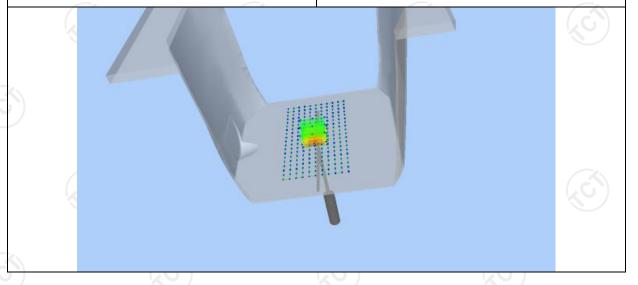
Dipole Model: SID835

E-Field Probe: SSE5 (SN 07/15 EP248)

Validation plane			
100mW			
1.0			
5.50			
835.000000			
41.417760			
18.129852			
0.874923			
-0.090000			
0.570250			
0.886135			

SURFACE SAR







Z (mm) SAR (W/Kg)	0.00 0.8625	4.00 0.5302	9.00 0.2594	14.00 0.1302	19.00 0.1025	
SAIT (W/Ttg)	0.85 - 0.75 - 0.65 - 0.45 - 0.35 - 0.25 - 0.	0.3302	0.2334	0.1302	(3)	
	0.15 - 0.03 - 0		Z (mm)	22 24 26 28 30	4	
		Hot spot	position			
		(
		ı	I			



Date of measurement: 06/17/2019 Test mode: 835 (Body)

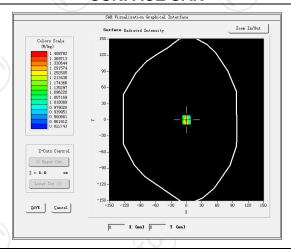
Product Description: Validation

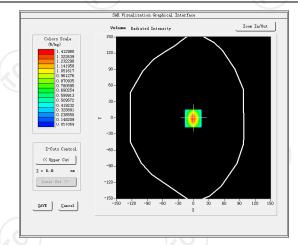
Dipole Model: SID835

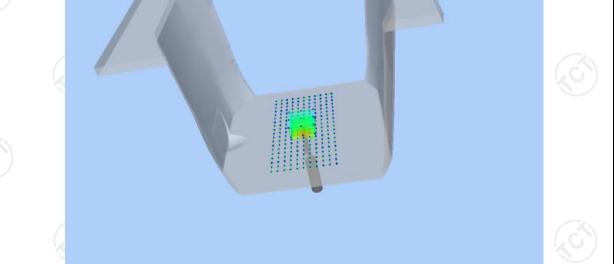
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	1.0		
Probe Conversion factor	5.65	(C)	
Frequency (MHz)	835.000000		
Relative permittivity (real part)	55.242077		
Relative permittivity (imaginary part)	21.378187		
Conductivity (S/m)	0.938883		
Variation (%)	-0.150000		
SAR 10g (W/Kg)	0.633123		
SAR 1g (W/Kg)	0.949446		

SURFACE SAR









Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.9625	0.6022	0.3594	0.2202	0.0725	
	0.95 -					
	0.75 -					
	0.65 -	\longrightarrow				
	0.55 - 5 0.45 -					
	0.35					
	0. 25 -	+++				
	0.08 -	++++	+ + + + + + + + + + + + + + + + + + + +			
	0 2	4 6 8 10 12 : Z(14 16 18 20 22 : (mm)	24 26 28 30		
		Hot spot				
		(
P.			7/2			



Date of measurement: 06/26/2019 Test mode: 1800MHz (Head)

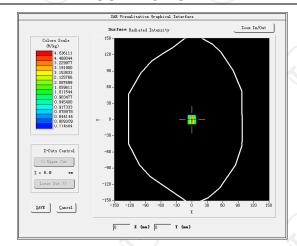
Product Description: Validation

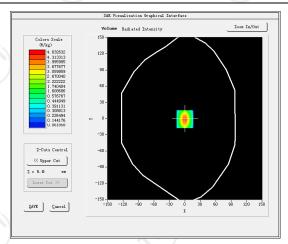
Dipole Model: SID1800

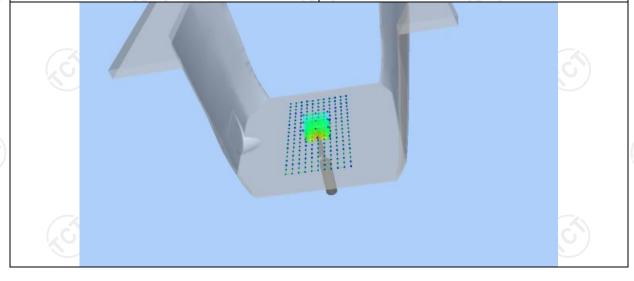
E-Field Probe: SSE5 (SN 07/15 EP248)

Validation plane
100mW
1.0
4.38
1800.00000
39.070000
14.000000
1.38000
1.250000
2.201458
3.752497

SURFACE SAR









Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	3.7625 3.75 3.50 3.00 2.75. 2.50.	2.6254	2.0245	1.6254	1.0214	
	2.00 - 1.75 - 1.02 -		Z (mm)	24 26 28 30		(,
		Hot spot	position			
		(
		ı				



Date of measurement: 06/26/2019 Test mode: 1800MHz (Body)

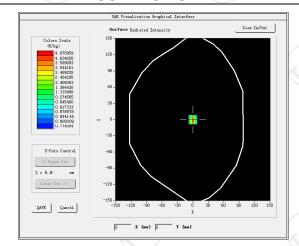
Product Description: Validation

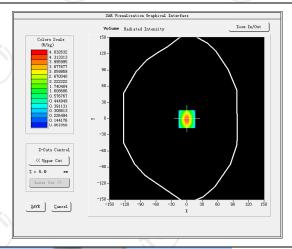
Dipole Model: SID1800

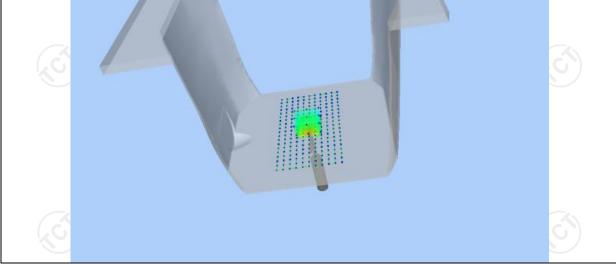
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	1.0		
Probe Conversion factor	4.52		
Frequency (MHz)	1800.00000		
Relative permittivity (real part)	53.292699		
Relative permittivity (imaginary part)	15.200000		
Conductivity (S/m)	1.530000		
Variation (%)	3.050000		
SAR 10g (W/Kg)	2.053687		
SAR 1g (W/Kg)	3.782547		

SURFACE SAR









Z (mm) SAR (W/Kg)	0.00 3.7545	4.00 2.4524	9.00 1.3520	14.00 0.8214	19.00 0.5525	
	3.75 - 3.35 - 2.95 - 2.55 2.15 1.75 - 1.35 -					
	0.95 -		14 16 18 20 22 Z (mm)	24 26 28 30		
			position			
		(
9	(c1)	(.0	3)			(



Date of measurement: 07/18/2019 Test mode: 1900MHz (Head)

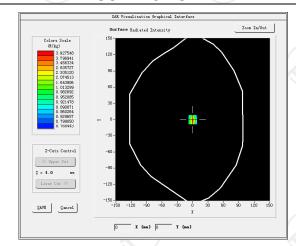
Product Description: Validation

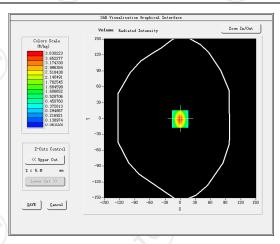
Dipole Model: SID1900

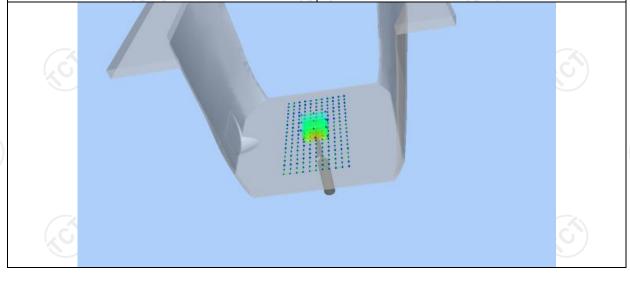
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	1.0		
Probe Conversion factor	4.85		
Frequency (MHz)	1900.000000		
Relative permittivity (real part)	39.076721		
Relative permittivity (imaginary part)	12.607061		
Conductivity (S/m)	1.367609		
Variation (%)	-0.910000		
SAR 10g (W/Kg)	1.899324		
SAR 1g (W/Kg)	3.576354		

SURFACE SAR









Z (mm)	0.00	4.00	9.00	14.00	19.00)
SAR (W/Kg)	3.5325	2.5687	1.7025	1.3025	0.112	
	3.50 - 3.20 - 2.90 - 2.60 2.30 1.70 - 1.40 - 0.90 -	4 6 8 10 12	14 16 18 20 22	24 26 28 30		
	0 2		Z (mm)	24 26 23 30		
			-		(0)	
		(
		(S				



Date of measurement: 07/18/2019 Test mode: 1900MHz (Body)

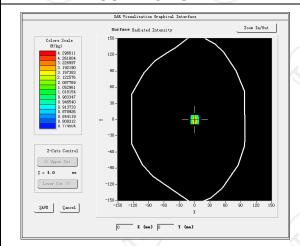
Product Description: Validation

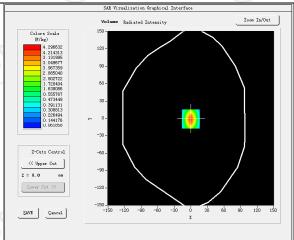
Dipole Model: SID1900

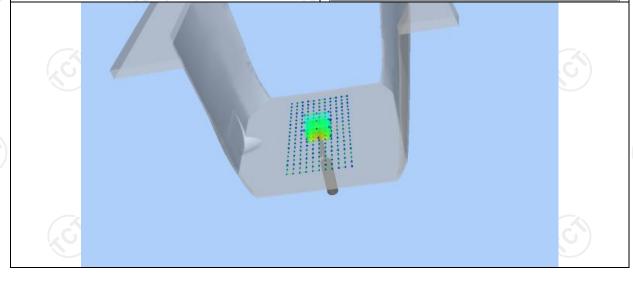
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	5.01
Frequency (MHz)	1900.000000
Relative permittivity (real part)	53.309999
Relative permittivity (imaginary part)	14.329440
Conductivity (S/m)	1.510354
Variation (%)	1.250000
SAR 10g (W/Kg)	1.994255
SAR 1g (W/Kg)	3.766112

SURFACE SAR









Z (mm) SAR (W/Kg)	0.00 3.7752 3.75 -	4.00 2.7154	9.00 1.9525	14.00 1.5694	19.00 0.901	
	3.45 - 3.15 - 2.85 2.55 2.25 -					
	1.65 -	2 4 6 8 10 1	2 14 16 18 20 22 Z (mm)	24 26 28 30		
		Hot spot	position			
		(
			3			



Date of measurement: 07/31/2019 Test mode: 2450MHz (Head)

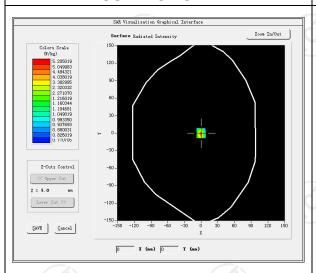
Product Description: Validation

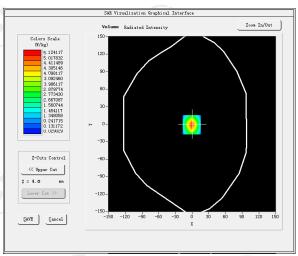
Dipole Model: SID2450

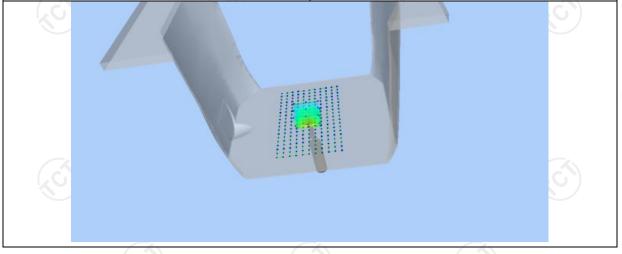
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	(,0) 1.0 (,0)		
Probe Conversion factor	4.58		
Frequency (MHz)	2450.000000		
Relative permittivity (real part)	37.821613		
Relative permittivity (imaginary part)	13.546980		
Conductivity (S/m)	1.834111		
Variation (%)	-0.470000		
SAR 10g (W/Kg)	2.364445		
SAR 1g (W/Kg)	4.994244		

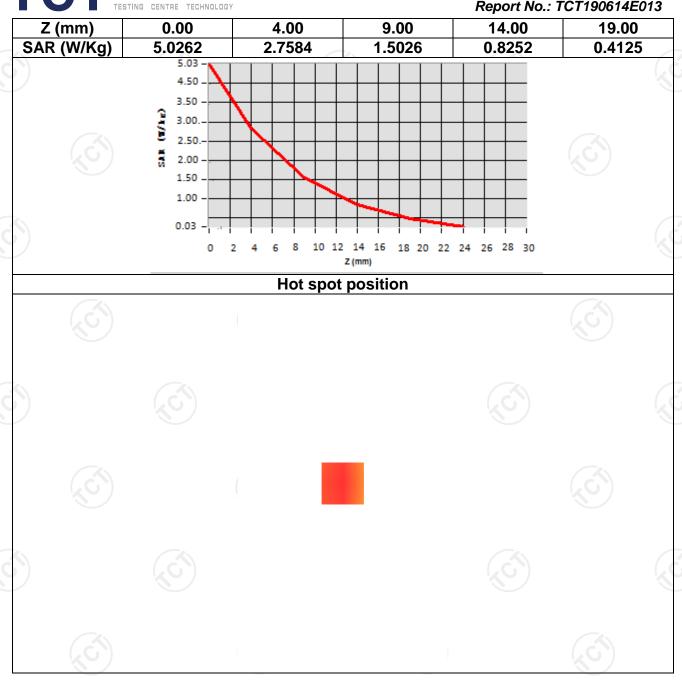
SURFACE SAR













Date of measurement: 07/31/2019 Test mode: 2450MHz (Body)

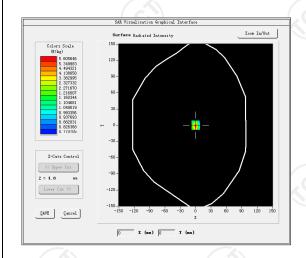
Product Description: Validation

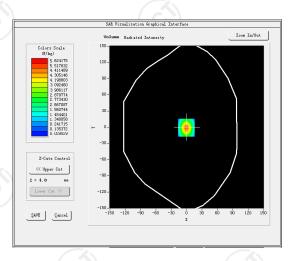
Dipole Model: SID2450

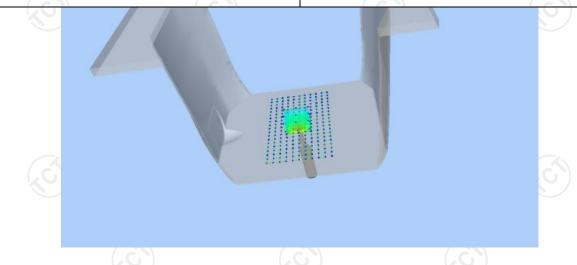
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	1.0		
Probe Conversion factor	4.70		
Frequency (MHz)	2450.000000		
Relative permittivity (real part)	54.616199		
Relative permittivity (imaginary part)	14.930150		
Conductivity (S/m)	2.012159		
Variation (%)	-0.230000		
SAR 10g (W/Kg)	2.416669		
SAR 1g (W/Kg)	5.066368		

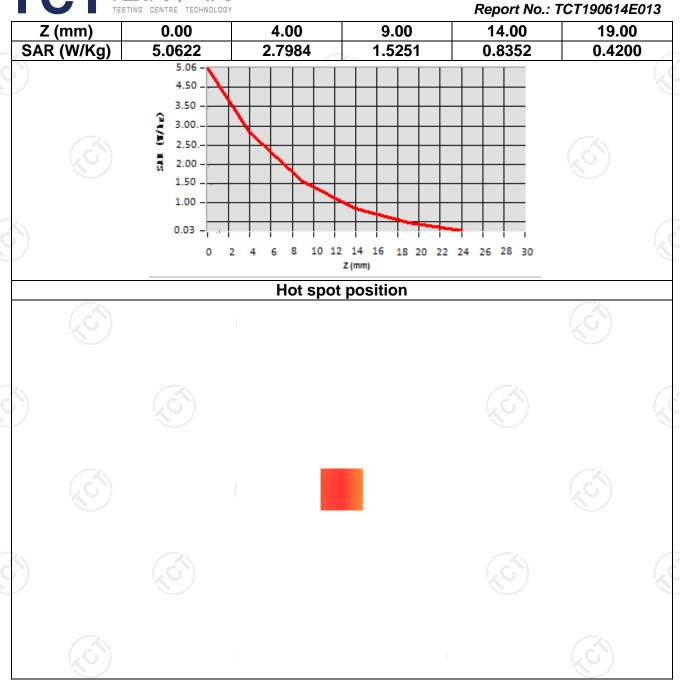
SURFACE SAR













Date of measurement: 08/08/2019 Test mode: 2600MHz (Head)

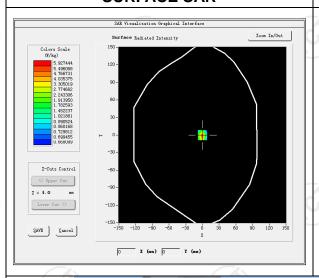
Product Description: Validation

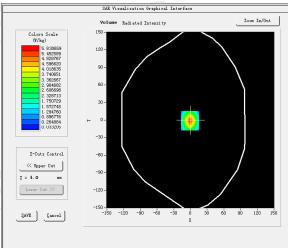
Dipole Model: SID2600

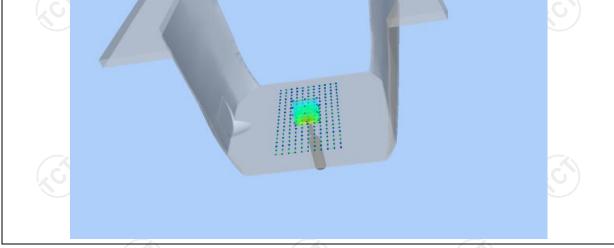
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	1.0		
Probe Conversion factor	4.36		
Frequency (MHz)	2535.000000		
Relative permittivity (real part)	38.853477		
Relative permittivity (imaginary part)	13.545489		
Conductivity (S/m)	1.922567		
Variation (%)	-1.360000		
SAR 10g (W/Kg)	2.430127		
SAR 1g (W/Kg)	5.413744		

SURFACE SAR

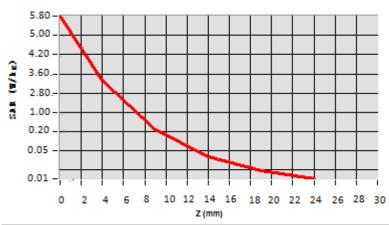








				•	
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.7893	3.2375	0.2098	0.0387	0.0249



Hot spot position





Date of measurement: 08/08/2019 Test mode: 2600MHz (Body)

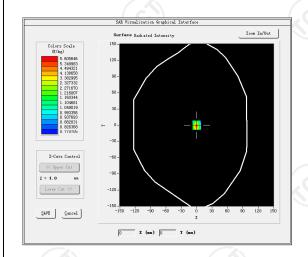
Product Description: Validation

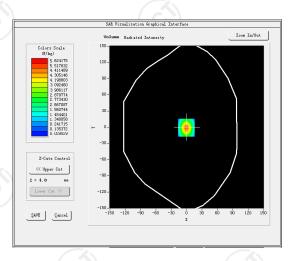
Dipole Model: SID2600

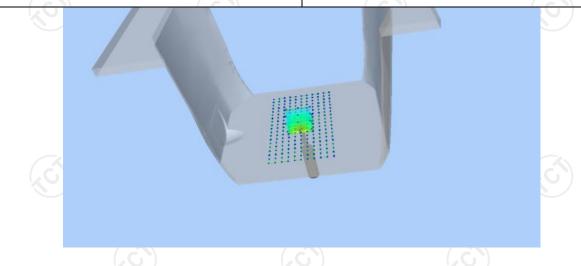
E-Field Probe: SSE5 (SN 07/15 EP248)

Phantom	Validation plane		
Input Power	100mW		
Crest Factor	1.0		
Probe Conversion factor	4.50		
Frequency (MHz)	2535.000000		
Relative permittivity (real part)	52.013887		
Relative permittivity (imaginary part)	14.935214		
Conductivity (S/m)	2.114821		
Variation (%)	-1.800000		
SAR 10g (W/Kg)	2.382177		
SAR 1g (W/Kg)	5.365098		

SURFACE SAR

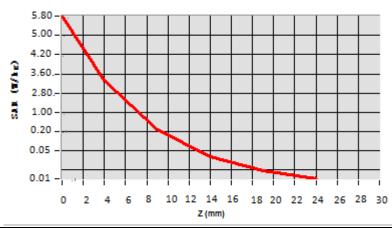








Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.7721	3.2210	0.1937	0.0321	0.0203



Hot spot position





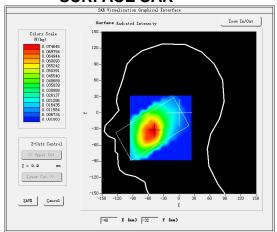
12. SAR Test Data

GSM850

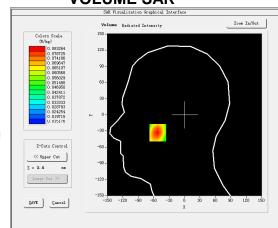
MEA	SUR	EME	NT 1

Middle Band SAR (Channel 190)	Date: 06/17/2019
Frequency (MHz)	824.200000
Relative permittivity (real part)	41.432883
Relative permittivity (imaginary part)	18.129634
Conductivity (S/m)	0.857241
Variation (%)	3.630000
Crest Factor:	8.3
Probe Conversion factor	5.50
E-Field Probe:	SSE5 (SN 07/15 EP248)
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Right head
Device Position	Cheek
Band	GSM850(voice)

SURFACE SAR



VOLUME SAR



 Maximum location: X=-52.00, Y=-33.00 SAR Peak: 0.10 W/kg

 SAR 10g (W/Kg)
 0.056650

 SAR 1g (W/Kg)
 0.079667

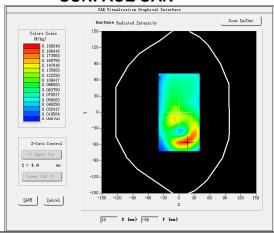


Z (mm) SAR (W/Kg)	0.00 0.1015 0.10- 0.09-	4.00 0.0833	9.00 0.0642	14.00 0.0489	19.00 0.0365	(
	0.08 - 0.07 - 0.00 - 0.					
	0.04 0.03 0 2		14 16 18 20 22 2 Z (mm)	24 26 28 30		(
		Hot spot	position			

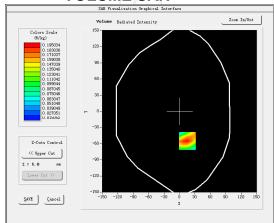


MEASUREMENT 2		
Middle Band SAR (Channel 190):	Date: 06/17/2019	
Frequency (MHz)	836.600000	
Relative permittivity (real part)	55.242927	
Relative permittivity (imaginary part)	21.378266	
Conductivity (S/m)	0.941230	
Variation (%)	-1.400000	
Crest Factor:	8.3	
Probe Conversion factor	5.65	
E-Field Probe:	SSE5 (SN 07/15 EP248)	
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>	
ZoomScan	5x5x7,dx=8mm dy=8mm	
	dz=5mm,Complete/ndx=8mm dy=8mm, h=	
	<u>5.00 mm</u>	
Phantom	<u>Validation plane</u>	
Device Position Body back(10mm)		
Band	GSM850(Voice)	

SURFACE SAR



VOLUME SAR



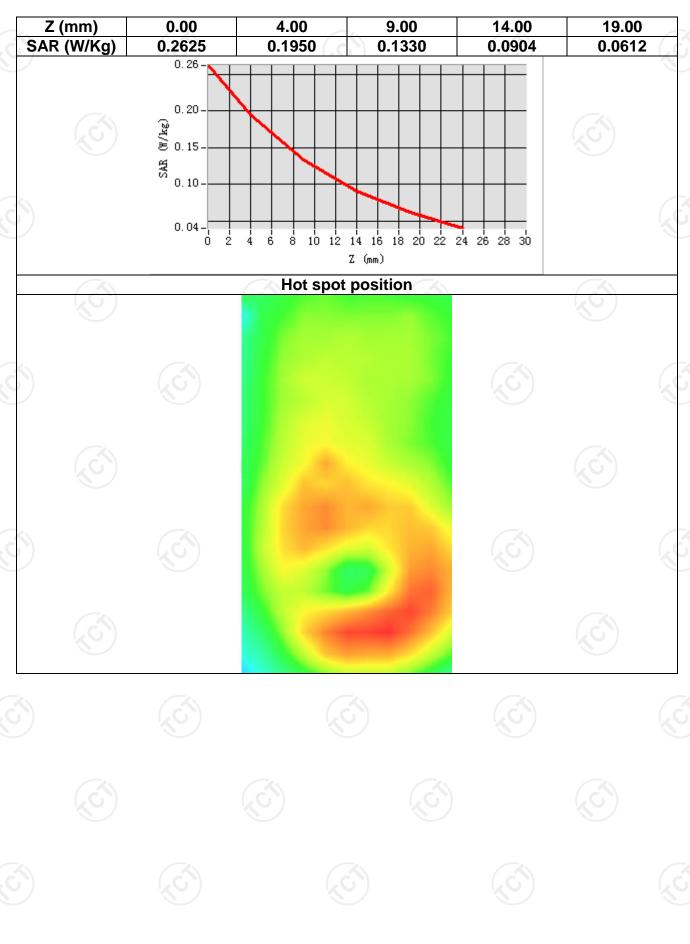
 Maximum location: X=15.00, Y=-55.00 SAR Peak: 0.26 W/kg

 SAR 10g (W/Kg)
 0.117028

 SAR 1g (W/Kg)
 0.190794



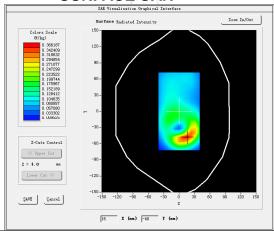




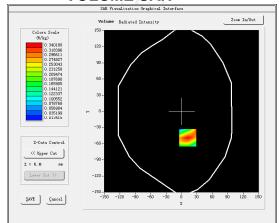


MEASU	REMENT 3
Middle Band SAR (Channel 190):	Date: 06/17/2019
Frequency (MHz)	836.600000
Relative permittivity (real part)	55.242927
Relative permittivity (imaginary part)	21.378266
Conductivity (S/m)	0.941230
Variation (%)	1.840000
Crest Factor:	2.0
Probe Conversion factor	5.65
E-Field Probe:	SSE5 (SN 07/15 EP248)
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h=
	5.00 mm
Phantom	<u>Validation plane</u>
Device Position	Body back(10mm)
Band	GSM850(GPRS 4slot)

SURFACE SAR



VOLUME SAR



 Maximum location: X=12.00, Y=-49.00 SAR Peak: 0.49 W/kg

 SAR 10g (W/Kg)
 0.196667

 SAR 1g (W/Kg)
 0.331765



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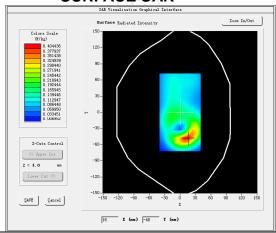


Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.4865	0.3402	0.2159	0.1390	0.0925	-(40
	0.4-					
	(%) 0.3-	\longrightarrow				
	-2.0 SAR (#/kg)					
	Ø 0.2-					
	0.1-					
	0.1-			24 26 28 30		
			Z (mm)			
		Hot spot	position			

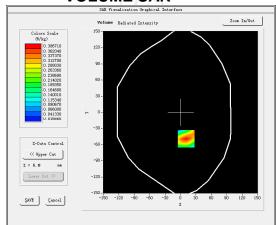


MEASUREMENT 4				
Middle Band SAR (Channel 190):	Date: 06/17/2019			
Frequency (MHz)	836.600000			
Relative permittivity (real part)	55.242927			
Relative permittivity (imaginary part)	21.378266			
Conductivity (S/m)	0.941230			
Variation (%)	-1.350000			
Crest Factor:	2.0			
Probe Conversion factor	5.65			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
Area Scan	dx=8mm dy=8mm, h= 5.00 mm			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm			
Phantom	Validation plane			
Device Position	Body back(10mm)			
Band	GSM850(GPRS 4slot hotspot)			

SURFACE SAR



VOLUME SAR



 Maximum location: X=11.00, Y=-49.00 SAR Peak: 0.56 W/kg

 SAR 10g (W/Kg)
 0.217230

 SAR 1g (W/Kg)
 0.374939





Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.5596	0.3867	0.2413	0.1525	0.0997	
	0.6-					
	SAR (%/kg)					
	≋ 0.3-	+N++				
	th 0.2-	++++				
	0.1-	4 6 8 10 12		24 26 28 30		
	0 2		Z (mm)	24 20 20 30		
		Hot spot	position			
((0))					(0)	
		_				
((0))						
					Page 101 of 27	" 2

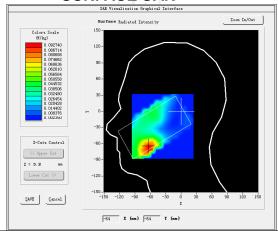
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



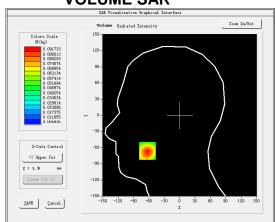
GSM1900

MEASUREMENT 1				
Middle Band SAR (Channel 661):	Date: 07/18/2019			
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	39.102437			
Relative permittivity (imaginary part)	12.607241			
Conductivity (S/m)	1.347279			
Variation (%)	0.110000			
Crest Factor	8.3			
Probe Conversion factor	4.85			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
Area Scan	dx=8mm dy=8mm, h= 5.00 mm			
ZoomScan	5x5x7,dx=8mm dy=8mm			
	dz=5mm,Complete/ndx=8mm dy=8mm, h=			
	<u>5.00 mm</u>			
Phantom	Right head			
Device Position	<u>Cheek</u>			
Band	GSM1900(voice)			

SURFACE SAR



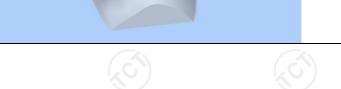
VOLUME SAR



 Maximum location: X=-63.00, Y=-66.00 SAR Peak: 0.12 W/kgg

 SAR 10g (W/Kg)
 0.053801

 SAR 1g (W/Kg)
 0.087006



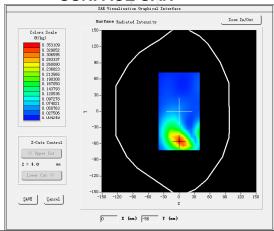


Z (mm) SAR (W/Kg)	0.00 0.1229		9.00 .0620	14.00 0.0406	19.00 0.0253	
	0. 12 - 0. 10 - 80 .0 6- 0. 06 -				(c')	
	0.04-	4 6 8 10 12 14 16 Z (mm)	18 20 22 24	1 26 28 30		
		Hot spot posit	ion			
	(c ^r)	(C ¹)		(C ¹)		

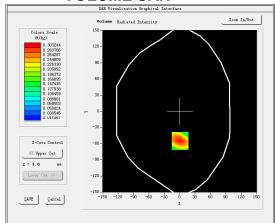


MEASUREMENT 2				
Middle Band SAR (Channel 661):	Date: 07/18/2019			
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	53.321337			
Relative permittivity (imaginary part)	14.232401			
Conductivity (S/m)	1.497736			
Variation (%)	-1.490000			
Crest Factor	8.3			
Probe Conversion factor	5.01			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
Area Scan	dx=8mm dy=8mm, h= 5.00 mm			
ZoomScan	5x5x7,dx=8mm dy=8mm			
	dz=5mm,Complete/ndx=8mm dy=8mm, h=			
	<u>5.00 mm</u>			
Phantom	Validation plane			
Device Position	Body back(10mm)			
Band	GSM1900(voice)			
OUDEA OF OAD	VOLUME CAD			





VOLUME SAR



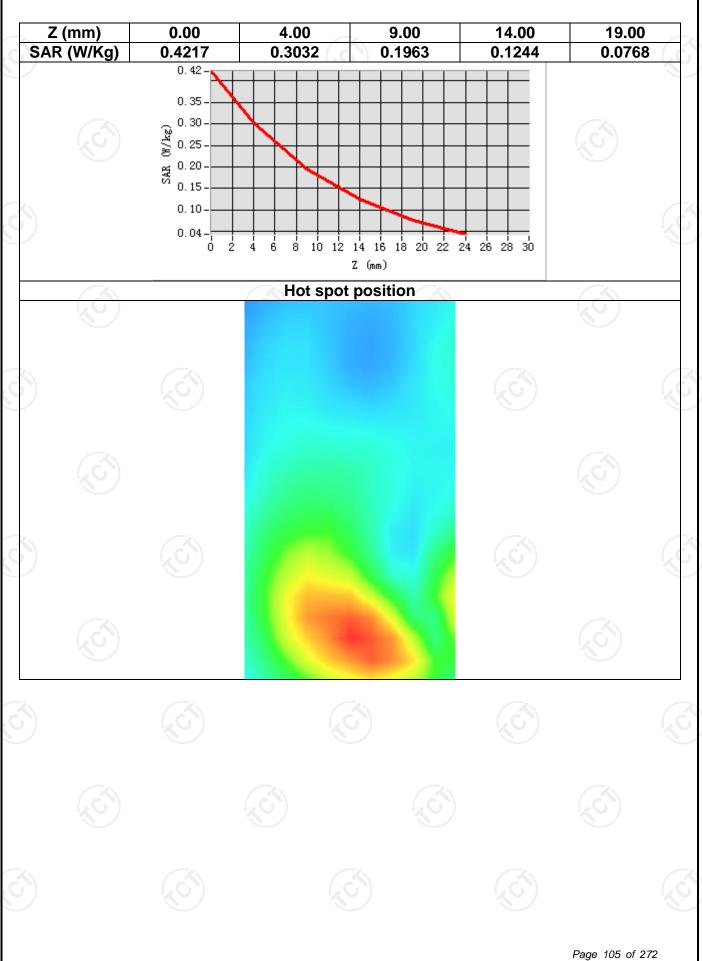
 Maximum location: X=1.00, Y=-55.00 SAR Peak: 0.42 W/kg

 SAR 10g (W/Kg)
 0.172914

 SAR 1g (W/Kg)
 0.285999



http://www.tct-lab.com

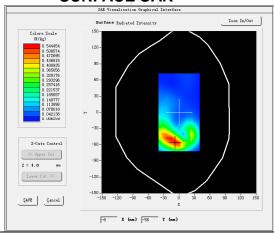


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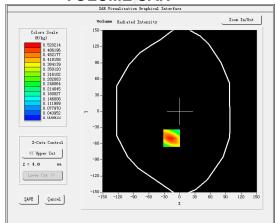


MEASUREMENT 3				
Middle Band SAR (Channel 661):	Date: 07/18/2019			
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	53.321337			
Relative permittivity (imaginary part)	14.232401			
Conductivity (S/m)	1.497736			
Variation (%)	-1.630000			
Crest Factor	2.0			
Probe Conversion factor	5.01			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>			
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u>			
	dz=5mm,Complete/ndx=8mm dy=8mm, h=			
	<u>5.00 mm</u>			
Phantom	Validation plane			
Device Position	Body back(10mm)			
Band	GSM1900(GPRS 4slot)			

SURFACE SAR



VOLUME SAR



 Maximum location: X=-16.00, Y=-50.00 SAR Peak: 0.81 W/kg

 SAR 10g (W/Kg)
 0.277075

 SAR 1g (W/Kg)
 0.490727

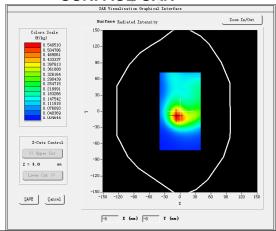


Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.8037	0.5202	0.2966	0.1723	0.1063	
	0.7-					
	0.6-					
	بَرِّ 0.5- ای 0.4-					
	0.5- 0.4- 0.4- 0.3-					
	0.2-					
	0.1-	4 6 8 10 12	14 16 18 20 22	24 26 28 30		
	0 2	4 0 0 10 12	Z (mm)	24 20 20 30		
		Hot spo	t position			
					Page 107 of 2	

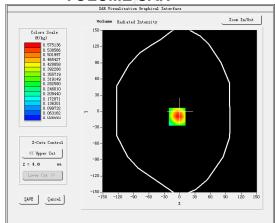


MEASUREMENT 4				
Middle Band SAR (Channel 661):	Date: 07/18/2019			
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	53.321337			
Relative permittivity (imaginary part)	14.232401			
Conductivity (S/m)	1.497736			
Variation (%)	0.060000			
Crest Factor	2.0			
Probe Conversion factor	5.01			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
Area Scan	dx=8mm dy=8mm, h= 5.00 mm			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm			
Phantom	<u>Validation plane</u>			
Device Position	Body back(10mm)			
Band	GSM1900(GPRS 4slot hotspot)			

SURFACE SAR



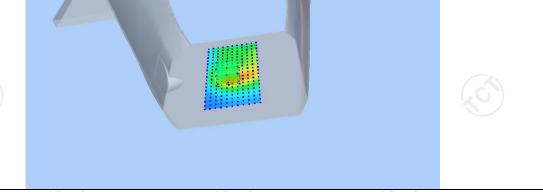
VOLUME SAR



 Maximum location: X=-5.00, Y=-10.00 SAR Peak: 0.87 W/kg

 SAR 10g (W/Kg)
 0.308172

 SAR 1g (W/Kg)
 0.543292





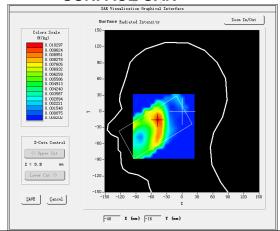
Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.8581 0.9 0.7 0.6 0.5 0.4 0.4 0.3 0.2 0.1 0.2		0.3415	0.2023	0.1218	
			position		(d)	
			-			
		(Control of the control of the contr	3			



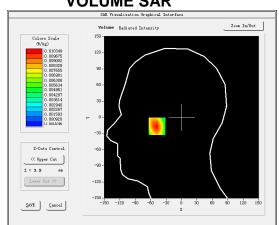
CDMA BC0

CDIV	IA BCU		
MEASU	REMENT 1		
Middle Band SAR (Channel 384):	Date: 06/17/2019		
Frequency (MHz)	836.520000		
Relative permittivity (real part)	41.432883		
Relative permittivity (imaginary part)	18.129634		
Conductivity (S/m)	0.857241		
Variation (%)	1.800000		
Crest Factor:	1.0 5.50		
Probe Conversion factor			
E-Field Probe:	SSE5 (SN 07/15 EP248)		
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>		
ZoomScan	5x5x7,dx=8mm dy=8mm		
	dz=5mm,Complete/ndx=8mm dy=8mm, h=		
	<u>5.00 mm</u>		
Phantom	Right head		
Device Position	Cheek		
Band	CDMA2000_RC3_SO55		

SURFACE SAR



VOLUME SAR



 Maximum location: X=-48.00, Y=-16.00 SAR Peak: 0.02 W/kg

 SAR 10g (W/Kg)
 0.005296

 SAR 1g (W/Kg)
 0.010000

