

FCC SAR REPORT

Report No.: JYTSZ-R14-2300177

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE
19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: LI7


Trade mark: TECNO

FCC ID: 2ADYY-LI7

Applicable standards: FCC 47 CFR Part 2.1093

Date of Test: 14 Dec., 2023 ~ 29 Dec., 2023

Test Result: Maximum Reported 1-g SAR (W/kg)
Head: 1.199 Body: 0.572 Hotspot: 0.808

Project by:	 Eric Wang Project Engineer	Date:	15 Jan., 2024
Reviewed by:	Weto Chang Senior Engineer	Date:	15 Jan., 2024
Approved by:	Janet Wei Manager	Date:	15 Jan., 2024

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2 Version

Version No.	Date	Description
<i>00</i>	<i>15 Jan., 2024</i>	<i>Original</i>

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4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as below:
 <Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported 1-g SAR (W/kg)
Head	GSM 850	0.924	PCE	1.199
	PCS 1900	0.633		
	WCDMA Band II	0.572		
	WCDMA Band IV	0.589		
	WCDMA Band V	1.021		
	LTE Band 2	0.638		
	LTE Band 5	1.199		
	LTE Band 7	0.659		
	LTE Band 12 & LTE Band 17	0.336		
	LTE Band 40(2305-2315)	1.050		
	LTE Band 40(2350-2360)	0.993		
	LTE Band 41 & LTE Band 38	0.756		
	LTE Band 66 & LTE Band 4	0.580		
	WLAN 2.4 GHz	0.185	DTS	
	Bluetooth	0.118	DSS	
WLAN 5.2 GHz	0.503	NII		
WLAN 5.8 GHz	0.330			
Body (10 mm Gap)	GSM 850	0.348	PCE	0.572
	PCS 1900	0.572		
	WCDMA Band II	0.135		
	WCDMA Band IV	0.121		
	WCDMA Band V	0.212		
	LTE Band 2	0.155		
	LTE Band 5	0.249		
	LTE Band 7	0.228		
	LTE Band 12 & LTE Band 17	0.098		
	LTE Band 40(2305-2315)	0.561		
	LTE Band 40(2350-2360)	0.530		
	LTE Band 41 & LTE Band 38	0.229		
	LTE Band 66 & LTE Band 4	0.133		
	WLAN 2.4GHz	0.038	DTS	
	Bluetooth	0.028	DSS	
WLAN 5.2 GHz	0.082	NII		
WLAN 5.8 GHz	0.129			
Hotspot (10 mm Gap)	GSM 850	0.348	PCE	0.808
	PCS 1900	0.808		
	WCDMA Band II	0.200		
	WCDMA Band IV	0.196		
	WCDMA Band V	0.212		
	LTE Band 2	0.246		
	LTE Band 5	0.249		

	LTE Band 7	0.397			
	LTE Band 12 & LTE Band 17	0.098			
	LTE Band 40(2305-2315)	0.676			
	LTE Band 40(2350-2360)	0.592			
	LTE Band 41 & LTE Band 38	0.311			
	LTE Band 66 & LTE Band 4	0.236			
	WLAN 2.4 GHz	0.038			DTS
	Bluetooth	0.028			DSS
	WLAN 5.2 GHz	0.118			NII
	WLAN 5.8 GHz	0.212			

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported Simultaneous Transmission 1-g SAR (W/kg)
Right Cheek	WWAN	1.199	PCE	1.384
	5G WLAN	0.185	NII	
	NFC	0.000	DXX	

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 (1.6 W/kg) 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 IEC/IEEE 62209-1528:2020.
3. For FDD-LTE Band 4 is full covered by FDD-LTE Band 66, so only FDD-LTE Band 66 was tested.
4. For FDD-LTE Band 17 is full covered by FDD-LTE Band 12, so only FDD-LTE Band 12 was tested.
5. For TDD-LTE Band 38 is full covered by TDD-LTE Band 41, so only TDD-LTE Band 41 was tested.

5 General Information

5.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address of Applicant:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED
Address of Manufacturer:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address of Factory:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R. China

5.2 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	LI7		
Category of device	Portable device		
Operation Frequency:	GSM:	GSM850: 824.2~848.8 MHz	PCS 1900: 1850.2~1909.8 MHz
	WCDMA:	Band II: 1852.4~1907.6 MHz	Band IV: 1712.4~1752.6 MHz
		Band V: 826.4~846.6 MHz	
	LTE:	Band 2: 1850MHz~1910MHz	Band 4: 1710MHz~1755MHz
		Band 5: 824MHz~849MHz	Band 7: 2500MHz~2570MHz
		Band 12: 699MHz~716MHz	Band 17: 704MHz~716MHz
		Band 38: 2570MHz~2620MHz	Band 40: 2305MHz~2315MHz
		Band 40: 2350MHz~2360MHz	Band 41: 2535MHz~2655MHz
	Wi-Fi:	2412MHz~2462MHz	5150MHz-5250MHz
		5725MHz-5850MHz	
Bluetooth: 2402 MHz ~ 2480 MHz			
NFC: 13.56MHz			
Modulation technology:	GSM:	<input checked="" type="checkbox"/> Voice(GMSK) <input checked="" type="checkbox"/> GPRS(GMSK) <input checked="" type="checkbox"/> EGPRS(GMSK, 8PSK)	
	WCDMA:	<input checked="" type="checkbox"/> RMC(QPSK) <input checked="" type="checkbox"/> HSUPA(QPSK) <input checked="" type="checkbox"/> HSDPA(QPSK, 16QAM)	
	LTE:	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM	
	Wi-Fi:	<input checked="" type="checkbox"/> 802.11b(DSSS) <input checked="" type="checkbox"/> 802.11a/g/n/ac (OFDM)	
	Bluetooth:	<input checked="" type="checkbox"/> BDR(GFSK) <input checked="" type="checkbox"/> EDR(π/4-DQPSK, 8DPSK) <input checked="" type="checkbox"/> LE(GFSK)	
	NFC:	<input checked="" type="checkbox"/> ASK	
Antenna Type:	Internal Antenna		
Antenna Gain:	GSM 850:	-7.35 dBi	PCS 1900: -1.21 dBi
	WCDMA Band II:	-1.21 dBi	WCDMA Band IV -1.65 dBi
	WCDMA Band V:	-7.35 dBi	
	LTE Band 2:	-1.21 dBi	LTE Band 4 -1.65 dBi
	LTE Band 5:	-7.35 dBi	LTE Band 7: -2.41 dBi
	LTE Band 12:	-6.85 dBi	LTE Band 17: -6.85 dBi

	LTE Band 38:	-2.41 dBi	LTE Band 40:	-4.38 dBi
	LTE Band 41:	-2.41 dBi	LTE Band 66:	-1.65 dBi
	2.4G Wi-Fi ANT12:	-1.34 dBi	2.4G Wi-Fi ANT14:	-2.15 dBi
	Bluetooth ANT12:	-1.34 dBi	Bluetooth ANT14:	-2.15 dBi
	5G Wi-Fi:	0.72 dBi		
(E)GPRS Class:	(E)GPRS Class: 12			
Dimensions (L*W*H):	166 mm (L)× 76 mm (W)× 8 mm (H)			
Accessories information:	Adapter: Model: U700TSA Input: AC100-240V, 50/60Hz, 2.0A Output: DC 5.0V, 3.0A 15.0W or DC 5.0-10.0V, 7.0A or DC 11.0V, 6.4A or DC 4.0-20.0V, 3.5A 70.0W		Battery: Rechargeable Li-ion Polymer Battery DC3.91V, 5850mAh	
			Headset: Support headset	

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	PCS 1900
GSM (Voice)	32.91	31.02
GPRS (1 TX Slot)	32.83	30.95
GPRS (2 TX Slots)	31.92	30.01
GPRS (3 TX Slots)	29.99	27.56
GPRS (4 TX Slots)	28.88	26.45
EGPRS (1 TX Slot)	26.88	26.95
EGPRS (2 TX Slots)	25.66	26.04
EGPRS (3 TX Slots)	23.31	24.08
EGPRS (4 TX Slots)	22.00	23.13

Mode	Average Power (dBm)		
	WCDMA Band II	WCDMA Band IV	WCDMA Band V
AMR 12.2 kbps	22.21	22.90	23.21
RMC 12.2 kbps	22.29	22.90	23.37
HSDPA Sub-test 1	22.37	22.88	23.43
HSDPA Sub-test 2	21.69	22.87	22.87
HSDPA Sub-test 3	21.72	22.88	22.83
HSDPA Sub-test 4	21.68	22.84	22.84
HSUPA Sub-test 1	20.25	20.90	21.42
HSUPA Sub-test 2	20.25	20.83	21.43
HSUPA Sub-test 3	21.26	20.84	22.45
HSUPA Sub-test 4	19.75	20.84	20.93
HSUPA Sub-test 5	21.05	21.80	22.35

Mode	Average Power (dBm)							
	LTE Band 2	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 40 (2305-2315)	LTE Band 40 (2350-2360)	LTE Band 41	LTE Band 66
BW/1.4 MHz	23.30	23.40	/	23.49	21.96	19.88	/	23.72
BW/3.0 MHz	23.24	23.41	/	23.37	23.92	19.90	/	23.63
BW/5.0 MHz	23.52	23.65	22.77	23.61	/	/	22.93	23.94
BW/10 MHz	23.48	23.63	22.78	23.67	/	/	22.84	23.87
BW/15 MHz	23.52	/	22.78	/	/	/	22.86	23.87
BW/20 MHz	23.58	/	22.82	/	/	/	22.93	23.77

ANT12

WLAN 2.4 GHz Band Average Power (dBm)				
Mode/Band	b	g	n (HT-20)	n (HT-40)
WLAN 2.4GHz	18.14	15.97	15.71	14.29

ANT14

WLAN 2.4 GHz Band Average Power (dBm)				
Mode/Band	b	g	n (HT-20)	n (HT-40)
WLAN 2.4GHz	17.38	14.61	14.48	13.59

ANT12

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps ($\pi/4$ DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
Bluetooth	10.56	10.11	10.02	5.84	5.59	5.44	5.77

ANT14

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps ($\pi/4$ DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
Bluetooth	10.17	9.98	9.91	5.27	5.40	4.86	5.26

WLAN 5.2 GHz Band Average Power (dBm)							
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40	
WLAN 5.2GHz	15.21	15.31	14.16	13.6	15.25	14.01	

WLAN 5.8 GHz Band Average Power (dBm)							
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40	
WLAN 5.8GHz	16.14	16.24	14.31	13.86	16.32	14.15	

NFC Band Average Power (dBm)							
Mode/Band				ASK			
NFC				-43.63			

5.4 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

5.5 Test Sample Plan

Sample Number	Used for Test Items
SZR012300631-3	SAR
<i>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</i>	

5.6 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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5.7 Test Location

<p>JianYan Testing Group Shenzhen Co., Ltd. No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community,Xinqiao Street, Bao'an District, Shenzhen, Guangdong,People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://jyt.lets.com</p>
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6 Introduction

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

7.3 RF Exposure Limits

SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
SPATIAL PEAK SAR Brain	1.6	8.0
SPATIAL AVERAGE SAR Whole Body	0.08	0.4
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20

Note:

1. 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.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

8 SAR Measurement System

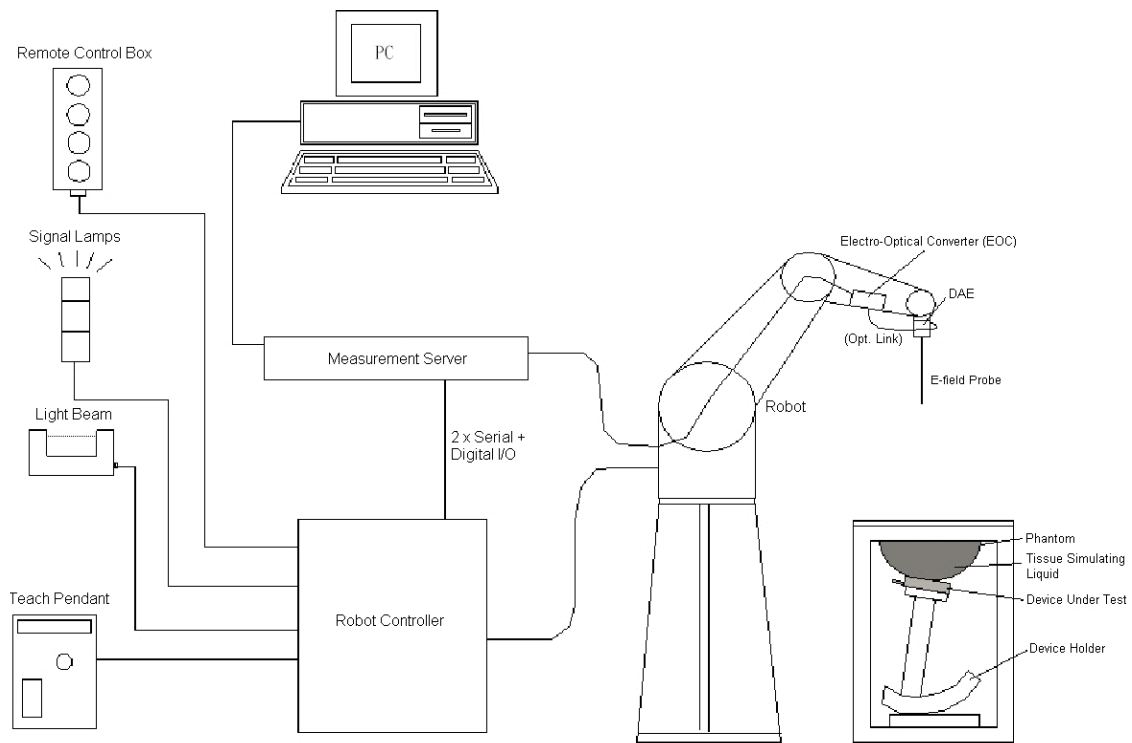


Fig. 8.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in the following sub-sections.

8.1 E-Field Probe

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

➤ **E-Field Probe Specification**
<EX3DV4 Probe>


Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency Directivity	10 MHz to 6 GHz; Linearity: ± 0.2 dB ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Overall length: 330 mm (Tip: 20mm) Tip diameter: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1 mm	

Fig. 8.2 Photo of E-Field Probe

➤ **E-Field Probe Calibration**

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

8.2 Data Acquisition Electronics (DAE)

The Data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.




Fig. 8.3 Photo of DAE

8.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; nobelt drives)
- Jerk-free straight movements
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Fig. 8.4 Photo of Robot

8.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY 5: 400MHz, Intel Celeron), chip-disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig. 8.5 Photo of Server for DASY5

8.5 Light Beam Unit


The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



Fig. 8.6 Photo of Light Beam

8.6 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	 <p>Fig. 8.7 Photo of SAM Twin Phantom</p>
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet	
Measurement Areas	Left Head, Right Head, Flat phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom >

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not in use; otherwise the parameters will change due to water evaporation.
- DGBE based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom resistiveness

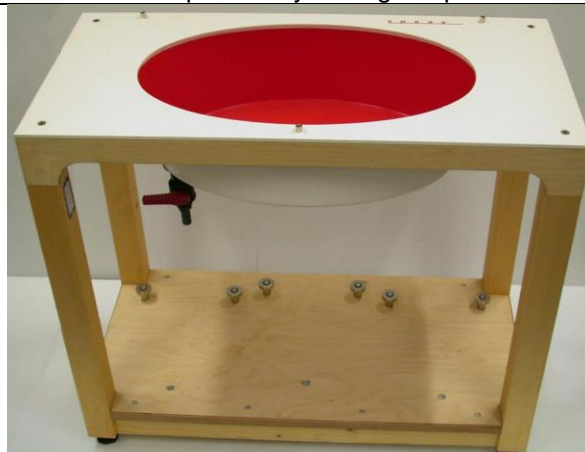


Fig.8.8 Photo of ELI4 Phantom

8.7 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards. The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-low POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig. 8.9 Photo of Device Holder

8.8 Data storage and Evaluation

➤ Data Storage

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

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

➤ Data Evaluation

The DASY post-processing software (SEMCAD) 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	$Norm_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion	$ConvF_i$
	- Diode compression point	dcp_i
Device Parameters:	- Frequency	f
	- Crest	cf
Media Parameters:	- Conductivity	σ
	- Density	ρ

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

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

The formula for each channel can be given as:

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

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

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

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

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

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

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

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

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

With SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in (mho/m) or (Siemens/m)
 ρ = equipment tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

8.9 Test Equipment List

Manufacturer	Equipment Description	Model	Management Number	Cal. Information	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	WXJ023	05.18.2023	05.17.2024
SPEAG	835MHz System Validation Kit	D835V2	WXJ023-1	06.08.2022	06.07.2025
SPEAG	1750MHz System Validation Kit	D1750V2	WXJ023-6	02.10.2021	02.09.2024
SPEAG	1900MHz System Validation Kit	D1900V2	WXJ023-2	06.07.2022	06.06.2025
SPEAG	2450MHz System Validation Kit	D2450V2	WXJ023-3	06.06.2022	06.05.2025
SPEAG	2600MHz System Validation Kit	D2600V2	WXJ023-4	10.28.2021	10.27.2024
SPEAG	5GHz System Validation Kit	D5GHZV2	WXJ023-14	02.05.2021	02.04.2024
SPEAG	Data Acquisition Electronics	DAE4	WXJ021-1	05.17.2023	05.16.2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	WXJ022	01.03.2023	01.02.2024
SPEAG	DASY 52 Measurement Software	DASY 52	Version 52.10.4.1527	N.C.R	N.C.R
SPEAG	DASY 52 File Conversion Software	SEMCAD X	Version 14.6.14 (7501)	N.C.R	N.C.R
SPEAG	Robot Controller	CS8Cspeag-TX60	WXG023-1	N.C.R	N.C.R
SPEAG	Phantom	Twin SAM V5.0	WXG023-4	N.C.R	N.C.R
SPEAG	Phantom	2mm Oval Phantom ELI5	WXG023-5	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	WXG023-6	N.C.R	N.C.R
St?ubli	Robot	TX60Lspeag	WXG023-3	N.C.R	N.C.R
R&S	Broadband radio communication tester	CMW500	WXJ008-3	06.13.2023	06.12.2024
Anritsu	Universal Radio Communication Analyzer	MT8820C	WXJ008-5	01.10.2023	01.09.2025
R&S	Universal Radio Communication Tester	CMU200	WXJ008-2	03.30.2022	03.29.2024
KEYSIGHT	Network Analyzer	E5071C	WXJ091	01.10.2023	01.09.2024
KEYSIGHT	EPM Series Power Meter	N1914A	WXJ075	06.13.2023	06.12.2024
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-1	06.13.2023	06.12.2024
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-2	06.13.2023	06.12.2024
KEYSIGHT	Signal Generator	N5173B	WXJ006-3	09.25.2023	09.24.2024
Huber Suhner	RF Cable	SUCOFLEX	WXG008-13	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-14	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-15	See Note 3	
Weinschel	Attenuator	23-3-34	WXG008-16	See Note 3	
Anritsu	Directional Coupler	MP654A	WXG008-17	See Note 3	
SPEAG	Dielectric Assessment Kit	3.5 Probe	WXG008-7	See Note 4	
SPEAG	DAK Measurement Software	DAK	Version: DAK 3.5	N.C.R	
TXC	Broadband Amplifier	BBA018000	WXG008-11	See Note 5	

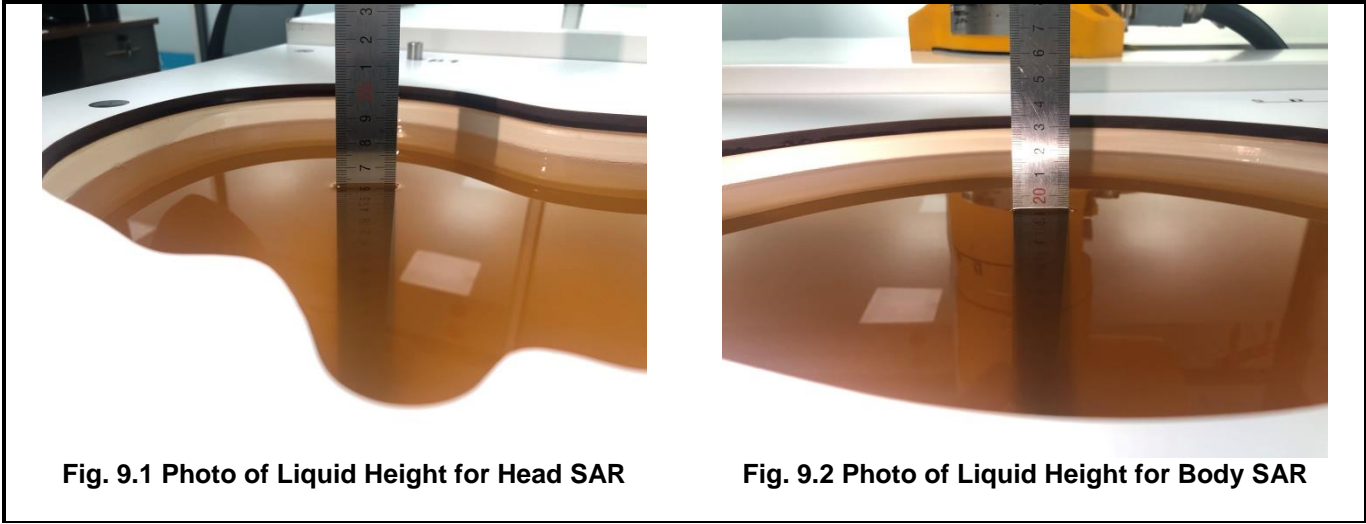
Note:

- The calibration certificate of DASY can be referred to appendix C of this report.
- Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
- The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Speag.
- In system check we need to monitor the level on the spectrum analyzer, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1 W input power according to the ratio of 1 W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the spectrum analyzer is critical and we do have calibration for it

- 6. Attenuator insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.
- 7. N.C.R means No Calibration Requirement.

Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 9.1, for body SAR testing, the liquid height from the center of the flat phantom to liquid top surface is larger than 15 cm, which is shown in Fig. 9.2.



The relative permittivity and conductivity of the tissue material should be within $\pm 5\%$ of the values given in the table below recommended by the FCC OET 65 supplement C and RSS 102 Issue 5.

Target Frequency (MHz)	ϵ_r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800-2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5800	35.3	5.27

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

The dielectric parameters of liquids were verified prior to the SAR evaluation using a Speag Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target(σ)	Permittivity Target(ϵ_r)	Delta (σ)%	Delta (ϵ_r)%	Limit (%)	Date (mm/dd/yy)
750	22.3	0.91	41.15	0.89	41.90	2.13	-1.79	±5	12/14/2023
835	22.6	0.92	40.76	0.90	41.50	2.56	-1.78	±5	12/16/2023
1750	22.8	1.41	39.29	1.37	40.10	2.70	-2.03	±5	12/18/2023
1900	22.2	1.44	39.21	1.40	40.00	2.86	-1.98	±5	12/21/2023
2450	23.0	1.85	38.41	1.80	39.20	2.83	-2.02	±5	12/23/2023
2600	21.7	2.02	38.22	1.96	39.00	2.91	-2.01	±5	12/25/2023
5200	22.4	4.80	35.19	4.67	35.74	2.78	-1.53	±5	12/27/2023
5800	21.9	5.43	34.51	5.27	35.30	3.09	-2.24	±5	12/29/2023

9 SAR System Verification

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➤ Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

➤ System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:

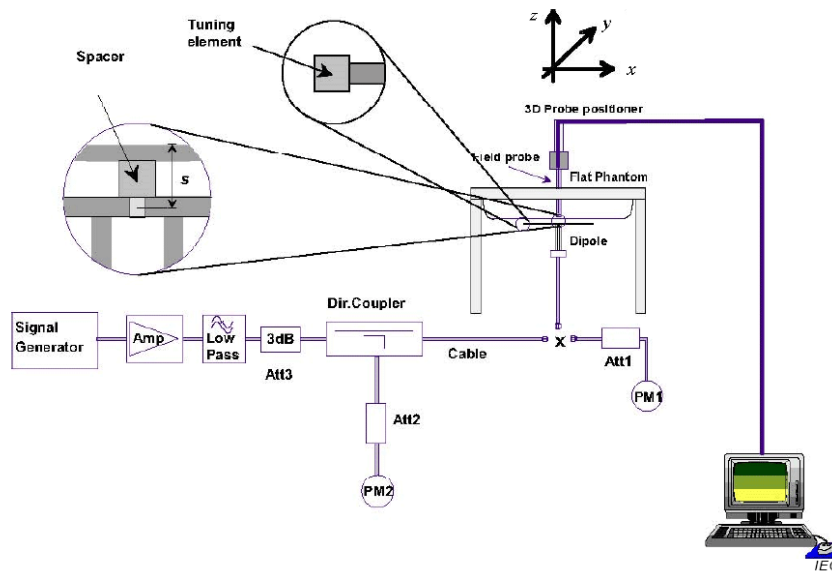


Fig.10.1 System Verification Setup Diagram

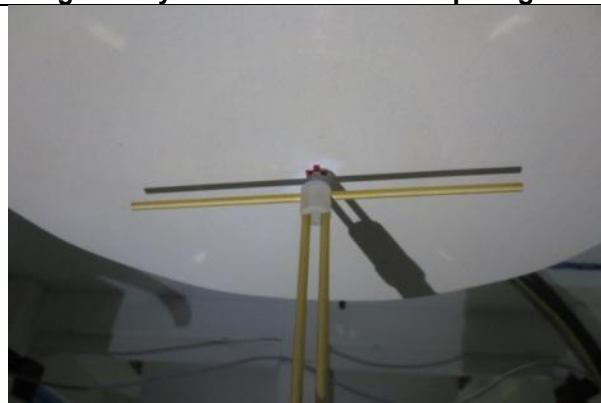


Fig.10.2 Photo of Dipole setup

➤

➤ **System Verification Results**

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix C of this report.

Date (mm/dd/yy)	Frequency (MHz)	Power fed onto dipole (mW)	Measured 1g SAR (W/kg)	Normalized to 1W 1g SAR (W/kg)	1W Target 1g SAR (W/kg)	Deviation (%)
12/14/2023	750	80	0.693	8.66	8.55	1.29
12/16/2023	835	80	0.776	9.70	9.6	1.04
12/18/2023	1750	40	1.470	36.75	36.4	0.96
12/21/2023	1900	40	1.610	40.25	39.9	0.88
12/23/2023	2450	40	2.110	52.75	53.4	-1.22
12/25/2023	2600	40	2.180	54.50	55.3	-1.45
12/27/2023	5200	40	3.230	80.75	79.10	2.09
12/29/2023	5800	40	3.300	82.50	80.90	1.98

10 EUT Testing Position

This EUT was tested in nine different positions. They are right cheek/right tilted/left cheek/left tilted for head, Front/Back/Right Side/Top Side of the EUT with phantom 10 mm gap, as illustrated below, please refer to Appendix B for the test setup photos.

10.1 Handset Reference Points

- The vertical centreline passes through two points on the front side of the handset – the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centreline and passes the center of the acoustic output. The horizontal line is also tangential to the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Fig.11.1 Illustration for Front, Back and Side of SAM Phantom

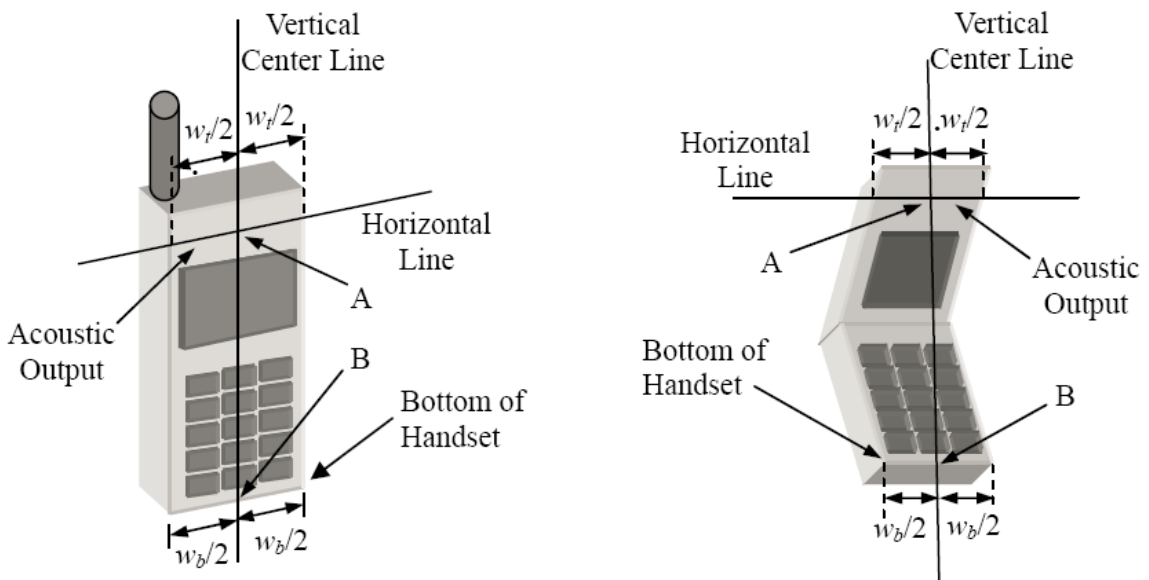


Fig. 11.2 Illustration for Handset Vertical and Horizontal Reference Lines

10.2 Positioning for Cheek / Touch

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see below figure)



Fig. 11.3 Illustration for Cheek Position

10.3 Positioning for Ear / 15o Tilt

- To position the device in the “cheek” position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see figure below).



Fig.11.4 Illustration for Tilted Position

10.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR locations identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

10.5 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 10 mm or holster surface and the flat phantom to 0 mm.

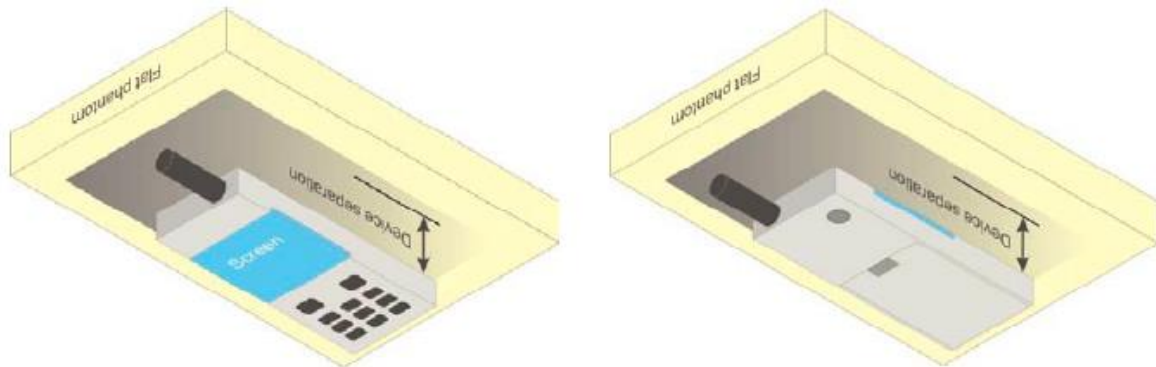


Fig.11.5 Illustration for Body Worn Position

10.6 Wireless 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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.

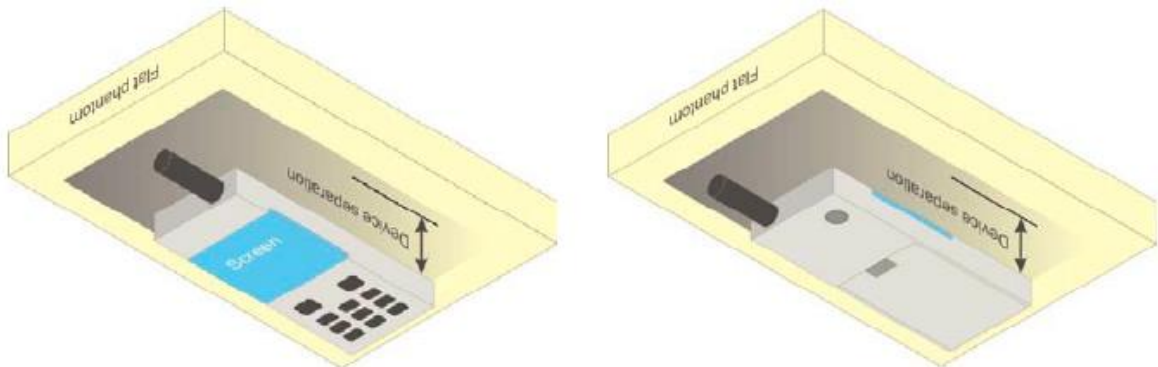


Fig.11.6 Illustration for Hotspot Position

11 Measurement Procedures

The measurement procedures are as below:

<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.
- 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 analyzer, 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 DASY 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

11.1 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 DASY 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 from 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.

11.2 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.

11.3 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 D01v01r04 quoted below.

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

11.4 Volume Scan Procedures

The volume scan is used to 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.

11.5 SAR Averaged Methods

In DASYS, 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.

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.

11.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASYS 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.

12 Conducted RF Output Power

12.1 GSM Conducted Power

Band: GSM 850 Channel	Burst Average Power (dBm)			Frame-Average Power(dBm)		
	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
GSM (GMSK, Voice)	32.84	32.91	32.89	23.81	23.88	23.86
GPRS (GMSK, 1 TX slot)	32.83	32.82	32.79	23.80	23.79	23.76
GPRS (GMSK, 2 TX slots)	31.88	31.92	31.90	25.86	25.90	25.88
GPRS (GMSK, 3 TX slots)	29.95	29.99	29.97	25.69	25.73	25.71
GPRS (GMSK, 4 TX slots)	28.82	28.88	28.86	25.81	25.87	25.85
EGPRS (8PSK, 1 TX slot)	26.88	26.65	26.73	17.85	17.62	17.70
EGPRS (8PSK, 2 TX slots)	25.60	25.63	25.66	19.58	19.61	19.64
EGPRS (8PSK, 3 TX slots)	23.31	23.27	23.31	19.05	19.01	19.05
EGPRS (8PSK, 4 TX slots)	22.00	21.98	22.00	18.99	18.97	18.99

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle “x” of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
- For GPRS multi time slots SAR measurement, when the measured maximum output power levels are within 0.25 dB of each other, test the configuration with the most number of time slots.
- Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- The EUT do not support DTM and VoIP function.

Band: PCS 1900 Channel	Burst Average Power (dBm)			Frame-Average Power(dBm)		
	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	31.01	31.02	30.78	21.98	21.99	21.75
GPRS (GMSK, 1 TX slot)	30.95	30.87	30.64	21.92	21.84	21.61
GPRS (GMSK, 2 TX slots)	30.01	29.85	29.51	23.99	23.83	23.49
GPRS (GMSK, 3 TX slots)	27.56	27.36	27.02	23.30	23.10	22.76
GPRS (GMSK, 4 TX slots)	26.45	26.24	25.90	23.44	23.23	22.89
EGPRS (8PSK, 1 TX slot)	26.95	26.53	26.11	17.92	17.50	17.08
EGPRS (8PSK, 2 TX slots)	26.04	25.67	25.15	20.02	19.65	19.13
EGPRS (8PSK, 3 TX slots)	24.08	23.71	23.18	19.82	19.45	18.92
EGPRS (8PSK, 4 TX slots)	23.13	22.78	22.21	20.12	19.77	19.20

Remark:

3. The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
 The duty cycle "x" of different time slots as below:
 1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
 Based on the calculation formula:
 Frame-averaged power = Burst averaged power + 10 log (x)
 So,
 Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
 Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
 Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
 Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
4. CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

1. For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in PCS 1900 Voice mode.
2. For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
3. Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. The EUT do not support DTM and VoIP function.

12.2 WCDMA Conducted Power

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

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table 1

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$.
 Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSDPA Sub-test setup configuration

HSUPA Setup Configuration:

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

Table 2

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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

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

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

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

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

HSUPA Sub-test setup configuration

WCDMA Conducted Power:

WCDMA Average power (dBm)			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
AMR 12.2 kbps	22.21	22.11	21.82
RMC 12.2 kbps	22.29	22.10	21.88
HSDPA Sub-test 1	22.37	22.14	21.82
HSDPA Sub-test 2	21.69	21.52	21.27
HSDPA Sub-test 3	21.72	21.52	21.18
HSDPA Sub-test 4	21.68	21.52	21.27
HSUPA Sub-test 1	20.25	20.06	19.72
HSUPA Sub-test 2	20.25	20.06	19.73
HSUPA Sub-test 3	21.26	21.06	20.76
HSUPA Sub-test 4	19.75	19.57	19.27
HSUPA Sub-test 5	20.70	21.05	20.76

WCDMA Average power (dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
AMR 12.2 kbps	22.86	22.90	22.79
RMC 12.2 kbps	22.90	22.80	22.86
HSDPA Sub-test 1	22.88	22.78	22.78
HSDPA Sub-test 2	22.81	22.76	22.87
HSDPA Sub-test 3	22.80	22.77	22.88
HSDPA Sub-test 4	22.80	22.75	22.84
HSUPA Sub-test 1	20.90	20.75	20.84
HSUPA Sub-test 2	20.83	20.75	20.83
HSUPA Sub-test 3	20.84	20.77	20.82
HSUPA Sub-test 4	20.84	20.76	20.83
HSUPA Sub-test 5	21.80	21.75	21.78

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	23.21	23.01	23.07
RMC 12.2 kbps	23.22	23.33	23.37
HSDPA Sub-test 1	23.29	23.40	23.43
HSDPA Sub-test 2	22.77	22.87	22.82
HSDPA Sub-test 3	22.71	22.79	22.83
HSDPA Sub-test 4	22.70	22.79	22.84
HSUPA Sub-test 1	21.24	21.35	21.42
HSUPA Sub-test 2	21.26	21.37	21.43
HSUPA Sub-test 3	22.26	22.36	22.45
HSUPA Sub-test 4	20.76	20.90	20.93
HSUPA Sub-test 5	22.24	22.32	22.35

Note:

1. Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1
2. Per KDB 941225 D01, RMC 12.2kbps mode is used to evaluate SAR due the highest output power. If AMR 12.2 kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2 kbps can be excluded.
3. AMR, HSDPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.

12.3 LTE Conducted Power

12.3.1 Largest channel bandwidth standalone SAR test requirements

QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.⁸ When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.⁹

QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in sections 4.2.1 and 4.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 4.2.1, 5.2.2 and 4.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> ?$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

12.3.2 Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 4.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> ?$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

13.3.3 TDD LTE configuration setup for SAR measurement

According to KDB 941225 D05v02r03 and April 2013 TCB workshop slides, SAR must be tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- see 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions and must be taken into consideration to determine the transmission duty factor
 - according to the worst case uplink and downlink cyclic prefix requirements for UpPTS to determine the highest SAR test duty factor

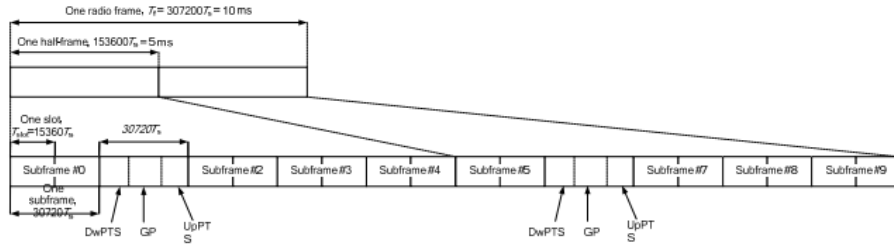


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink				
	DwPTS	UpPTS		DwPTS	UpPTS			
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$		
1	$19760 \cdot T_s$			$20480 \cdot T_s$				
2	$21952 \cdot T_s$			$23040 \cdot T_s$				
3	$24144 \cdot T_s$			$25600 \cdot T_s$				
4	$26336 \cdot T_s$			$7680 \cdot T_s$				
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$				
7	$21952 \cdot T_s$			$12800 \cdot T_s$				
8	$24144 \cdot T_s$			-			-	-
9	$13168 \cdot T_s$			-			-	-

Per 3GPP 36.211 section 4.2, each radio frame of length $T_f=37200 T_s = 10$ ms consists of two half-frames of length $153600 T_s = 5$ ms each. Each half-frame consists of five subframes of length $30720 T_s = 1$ ms. So, the uplink duty factor in special subframe as below:

Special Subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink	
	Duty factor of Uplink		Duty factor of Uplink	
	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	7.14%	8.33%	7.14%	8.33%
1	7.14%	8.33%	7.14%	8.33%
2	7.14%	8.33%	7.14%	8.33%
3	7.14%	8.33%	7.14%	8.33%
4	7.14%	8.33%	14.27%	16.67%
5	14.27%	16.67%	14.27%	16.67%
6	14.27%	16.67%	14.27%	16.67%
7	14.27%	16.67%	14.27%	16.67%
8	14.27%	16.67%	/	/
9	14.27%	16.67%	/	/

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to above table:

1. The highest duty factor is configuration 0;
2. The duty factor of uplink in one half-frame with normal cyclic prefix is: $(3\text{ms} + 0.143\text{ms})/5\text{ms}=62.86\%$;
3. The duty factor of uplink in one half-frame with extended cyclic prefix is: $(3\text{ms} + 0.167\text{ms})/5\text{ms}=63.34\%$;
4. For purpose to get the worst case SAR test duty factor, the duty factor of normal cyclic prefix in uplink scaled-up to the extended cyclic prefix in uplink, the scaling factor is $63.34\%/62.86\%=1.008$, and the scaling factor will be taken into the final measured SAR.

LTE Band 2 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
Band 2	1.4	QPSK	1	0	23.22	22.07	21.24
			1	2	22.01	21.04	23.30
			1	5	21.00	23.29	22.15
			3	0	23.25	22.13	21.25
			3	1	22.09	21.20	22.41
			3	2	21.10	23.26	21.23
			6	0	23.28	22.11	20.21
		16QAM	1	0	23.07	21.76	21.37
			1	2	21.83	21.30	23.23
			1	5	21.28	23.21	21.92
			3	0	23.13	21.95	21.31
			3	1	21.86	21.36	22.24
			3	2	21.30	23.22	21.21
			6	0	23.08	21.95	20.16
		64QAM	1	0	22.79	21.59	20.87
			1	2	21.63	21.09	22.86
			1	5	21.11	22.86	21.63
			3	0	22.71	21.66	20.89
			3	1	21.67	20.90	21.94
			3	2	21.07	22.85	20.88
			6	0	22.78	21.66	19.75

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
Band 2	3	QPSK	1	0	23.08	22.09	20.33
			1	7	22.04	21.13	22.37
			1	14	20.98	22.31	21.33
			8	0	23.24	21.33	20.31
			8	4	22.22	20.34	22.33
			8	7	21.21	22.32	21.37
			15	0	23.10	21.29	20.42
		16QAM	1	0	23.02	21.82	20.17
			1	7	21.94	20.81	22.12
			1	14	20.89	22.17	21.11
			8	0	23.15	21.16	20.13
			8	4	21.96	20.18	22.20
			8	7	20.94	22.16	21.10
			15	0	23.02	21.17	20.16
		64QAM	1	0	22.71	21.40	19.85
			1	7	21.39	20.88	21.90
			1	14	20.89	21.88	20.83
			8	0	22.77	20.83	19.82
			8	4	21.58	19.84	21.87
			8	7	20.97	21.89	20.76
			15	0	22.67	20.86	19.88

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
Band 2	5	QPSK	1	0	23.36	22.37	20.42
			1	12	22.31	21.22	22.45
			1	24	21.18	22.35	21.39
			12	0	23.52	21.37	20.52
			12	6	22.47	20.42	22.44
			12	11	21.33	22.35	21.42
			25	0	23.45	21.36	20.45
		16QAM	1	0	23.27	22.29	20.32
			1	12	22.34	21.63	22.20
			1	24	21.69	22.30	21.25
			12	0	23.37	21.26	20.24
			12	6	22.45	20.29	22.27
			12	11	21.80	22.28	21.24
			25	0	23.17	21.31	20.24
		64QAM	1	0	22.98	21.80	20.10
			1	12	21.85	21.09	21.86
			1	24	21.09	22.02	20.90
			12	0	23.10	20.96	19.94
			12	6	21.94	20.11	21.95
			12	11	21.19	22.01	21.01
			25	0	22.98	21.03	19.99

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
Band 2	10	QPSK	1	0	23.33	22.54	20.42
			1	24	22.39	21.41	22.49
			1	49	21.24	22.35	21.54
			25	0	23.48	21.34	20.57
			25	12	22.51	20.36	22.47
			25	24	21.30	22.34	21.45
		16QAM	50	0	23.48	21.36	20.46
			1	0	23.35	22.10	20.31
			1	24	22.21	21.05	22.22
			1	49	21.14	22.30	21.22
			25	0	23.34	21.28	20.26
			25	12	22.16	20.28	22.31
		64QAM	25	24	21.10	22.30	21.28
			50	0	23.26	21.35	20.31
			1	0	22.98	21.75	19.92
			1	24	21.73	21.10	21.86
			1	49	21.10	21.91	20.93
			25	0	23.04	20.96	19.90
			25	12	21.78	19.97	21.91
			25	24	21.16	21.95	20.92
			50	0	22.99	20.92	19.93

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
Band 2	15	QPSK	1	0	23.29	22.56	22.54
			1	37	22.31	21.37	22.58
			1	74	21.17	22.55	22.56
			36	0	23.52	22.54	22.52
			36	16	22.57	22.51	22.55
			36	35	21.38	22.53	21.40
			75	0	23.50	22.54	20.49
		16QAM	1	0	23.24	22.17	22.29
			1	37	22.38	21.22	22.29
			1	74	21.44	22.31	22.30
			36	0	23.24	22.29	22.30
			36	16	22.43	22.29	22.29
			36	35	21.43	22.29	21.29
			75	0	23.05	22.29	20.28
		64QAM	1	0	22.96	21.68	21.95
			1	37	21.70	21.08	21.99
			1	74	21.08	21.97	21.99
			36	0	23.03	21.94	21.98
			36	16	21.83	21.98	21.98
			36	35	21.20	21.99	20.93
			75	0	22.94	21.99	19.95

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
Band 2	20	QPSK	1	0	23.31	22.40	20.40
			1	49	22.20	21.57	22.58
			1	99	21.45	22.39	21.61
			50	0	23.58	21.36	20.70
			50	24	22.51	20.44	22.51
			50	49	21.72	22.42	21.54
			100	0	23.48	21.40	20.54
		16QAM	1	0	23.32	22.15	20.42
			1	49	22.44	21.27	22.18
			1	99	21.55	22.33	21.17
			50	0	23.39	21.36	20.24
			50	24	22.44	20.40	22.25
			50	49	21.57	22.34	21.26
			100	0	23.05	21.34	20.29
		64QAM	1	0	22.93	21.69	20.01
			1	49	21.76	20.68	21.82
			1	99	20.74	21.96	20.93
			50	0	23.00	21.04	19.90
			50	24	21.84	20.05	21.88
			50	49	20.82	21.96	20.91
			100	0	22.88	21.05	19.93

LTE Band 5 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
Band 5	1.4	QPSK	1	0	23.28	21.97	21.44
			1	2	22.00	21.43	23.37
			1	5	21.42	23.36	22.04
			3	0	23.30	22.11	21.41
			3	1	22.07	21.46	22.50
			3	2	21.45	23.37	21.39
			6	0	23.33	22.09	20.37
		16QAM	1	0	23.36	22.15	21.38
			1	2	22.17	21.57	23.33
			1	5	21.59	23.36	22.12
			3	0	23.34	22.17	21.39
			3	1	22.24	21.35	22.51
			3	2	21.59	23.40	21.47
			6	0	23.32	22.11	20.31
		64QAM	1	0	23.27	22.03	21.50
			1	2	22.02	21.47	23.38
			1	5	21.46	23.39	22.15
			3	0	23.34	22.10	21.47
			3	1	22.08	21.50	22.50
			3	2	21.47	23.39	21.44
			6	0	23.27	22.14	20.35

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
Band 5	3	QPSK	1	0	23.15	22.12	20.28
			1	7	22.07	21.06	22.40
			1	14	20.98	22.34	21.32
			8	0	23.32	21.30	20.32
			8	4	22.17	20.25	22.35
			8	7	21.17	22.32	21.25
			15	0	23.20	21.28	20.40
		16QAM	1	0	23.28	22.07	20.34
			1	7	22.02	21.10	22.39
			1	14	20.94	22.36	21.38
			8	0	23.41	21.30	20.39
			8	4	22.11	20.37	22.41
			8	7	21.13	22.40	21.28
			15	0	23.33	21.33	20.39
		64QAM	1	0	23.21	21.95	20.40
			1	7	21.91	21.35	22.43
			1	14	21.39	22.40	21.32
			8	0	23.31	21.34	20.33
			8	4	22.04	20.38	22.34
			8	7	21.47	22.41	21.25
			15	0	23.19	21.32	20.33

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
Band 5	5	QPSK	1	0	23.40	22.33	20.36
			1	12	22.29	21.19	22.40
			1	24	21.07	22.35	21.28
			12	0	23.61	21.29	20.39
			12	6	22.46	20.37	22.42
			12	11	21.29	22.35	21.42
			25	0	23.48	21.28	20.43
		16QAM	1	0	23.48	22.57	20.44
			1	12	22.44	21.86	22.50
			1	24	21.78	22.48	21.51
			12	0	23.61	21.47	20.53
			12	6	22.60	20.45	22.49
			12	11	21.94	22.46	21.50
			25	0	23.53	21.46	20.53
		64QAM	1	0	23.51	22.34	20.55
			1	12	22.30	21.58	22.37
			1	24	21.55	22.56	21.42
			12	0	23.65	21.51	20.44
			12	6	22.47	20.56	22.51
			12	11	21.70	22.48	21.53
			25	0	23.48	21.44	20.55

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829MHz	836.5MHz	844MHz
Band 5	10	QPSK	1	0	23.38	22.44	20.32
			1	24	22.38	21.36	22.44
			1	49	21.23	22.32	21.34
			25	0	23.54	21.31	20.43
			25	12	22.45	20.35	22.40
			25	24	21.21	22.34	21.30
		16QAM	50	0	23.53	21.29	20.39
			1	0	23.56	22.41	20.42
			1	24	22.27	21.30	22.52
			1	49	21.25	22.43	21.52
			25	0	23.59	21.46	20.51
			25	12	22.33	20.44	22.50
		64QAM	25	24	21.31	22.47	21.46
			50	0	23.63	21.44	20.51
			1	0	23.49	22.27	20.47
			1	24	22.25	21.61	22.42
			1	49	21.60	22.50	21.41
			25	0	23.58	21.49	20.39
			25	12	22.29	20.44	22.45
			25	24	21.69	22.47	21.46
			50	0	23.53	21.49	20.46

LTE Band 7 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535MHz	2567.5MHz
Band 7	5	QPSK	1	0	22.40	21.36	19.46
			1	12	21.24	20.62	21.49
			1	24	20.44	21.41	20.46
			12	0	22.62	20.33	19.53
			12	6	21.47	19.43	21.42
			12	11	20.66	21.39	20.42
			25	0	22.55	20.34	19.42
		16QAM	1	0	22.66	21.61	19.65
			1	12	21.55	20.47	21.62
			1	24	20.45	21.58	20.57
			12	0	22.75	20.58	19.67
			12	6	21.73	19.67	21.63
			12	11	20.57	21.64	20.67
			25	0	22.68	20.60	19.68
		64QAM	1	0	22.56	21.76	19.73
			1	12	21.64	21.09	21.70
			1	24	21.00	21.67	20.67
			12	0	22.77	20.75	19.74
			12	6	21.80	19.71	21.71
			12	11	21.22	21.71	20.70
			25	0	22.74	20.69	19.70

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505MHz	2535MHz	2565MHz
Band 7	10	QPSK	1	0	22.35	21.55	19.38
			1	24	21.36	20.39	21.48
			1	49	20.18	21.35	20.49
			25	0	22.54	20.33	19.53
			25	12	21.49	19.36	21.43
			25	24	20.37	21.42	20.41
		16QAM	50	0	22.56	20.30	19.44
			1	0	22.71	21.56	19.60
			1	24	21.51	20.52	21.68
			1	49	20.45	21.66	20.65
			25	0	22.71	20.63	19.66
			25	12	21.53	19.60	21.67
		64QAM	25	24	20.45	21.67	20.64
			50	0	22.78	20.64	19.67
			1	0	22.65	21.57	19.64
			1	24	21.39	20.97	21.67
			1	49	20.76	21.70	20.67
			25	0	22.70	20.66	19.71
			25	12	21.44	19.72	21.69
			25	24	20.83	21.62	20.70
			50	0	22.75	20.65	19.72

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535MHz	2562.5MHz
Band 7	15	QPSK	1	0	22.38	21.59	21.60
			1	37	21.29	20.42	21.63
			1	74	20.15	21.61	21.61
			36	0	22.58	21.62	21.61
			36	16	21.56	21.58	21.61
			36	35	20.46	21.59	20.53
			75	0	22.59	21.58	19.49
		16QAM	1	0	22.56	21.77	21.74
			1	37	21.69	20.77	21.74
			1	74	20.71	21.76	21.74
			36	0	22.71	21.77	21.76
			36	16	21.80	21.78	21.75
			36	35	20.89	21.76	20.69
			75	0	22.60	21.75	19.77
		64QAM	1	0	22.62	21.55	21.76
			1	37	21.37	20.93	21.81
			1	74	20.76	21.74	21.80
			36	0	22.78	21.77	21.81
			36	16	21.53	21.75	21.79
			36	35	20.88	21.76	20.69
			75	0	22.77	21.74	19.67

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510MHz	2535MHz	2560MHz
Band 7	20	QPSK	1	0	22.34	21.48	19.39
			1	49	21.19	20.70	21.61
			1	99	20.37	21.41	20.63
			50	0	22.66	20.38	19.66
			50	24	21.48	19.43	21.53
			50	49	20.79	21.44	20.46
		16QAM	100	0	22.59	20.35	19.45
			1	0	22.56	21.74	19.68
			1	49	21.68	20.85	21.67
			1	99	20.77	21.62	20.71
			50	0	22.82	20.59	19.79
			50	24	21.91	19.62	21.69
		64QAM	50	49	21.00	21.58	20.62
			100	0	22.63	20.60	19.70
			1	0	22.48	21.58	19.61
			1	49	21.32	20.56	21.66
			1	99	20.30	21.58	20.68
			50	0	22.75	20.59	19.73
			50	24	21.58	19.62	21.61
			50	49	20.59	21.58	20.59
			100	0	22.68	20.61	19.67

LTE Band 12 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23017	23095	23175
					699.7MHz	707.5MHz	715.3MHz
Band 12	1.4	QPSK	1	0	23.42	22.15	21.44
			1	2	22.16	21.68	23.46
			1	5	21.66	23.44	22.19
			3	0	23.45	22.23	21.49
			3	1	22.24	21.49	22.55
			3	2	21.64	23.43	21.55
			6	0	23.41	22.25	20.31
		16QAM	1	0	23.40	22.13	21.33
			1	2	22.09	21.16	23.48
			1	5	21.18	23.49	22.26
			3	0	23.45	22.24	21.35
			3	1	22.15	21.36	22.51
			3	2	21.17	23.47	21.33
			6	0	23.40	22.26	20.31
		64QAM	1	0	23.38	22.08	21.27
			1	2	22.00	21.08	23.41
			1	5	21.08	23.34	22.17
			3	0	23.46	22.13	21.26
			3	1	22.09	21.28	22.52
			3	2	21.13	23.43	21.28
			6	0	23.43	22.14	20.25

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
Band 12	3	QPSK	1	0	23.22	22.16	20.36
			1	7	22.14	21.18	22.46
			1	14	21.05	22.39	21.45
			8	0	23.36	21.43	20.48
			8	4	22.30	20.38	22.48
			8	7	21.27	22.40	21.48
			15	0	23.23	21.42	20.55
		16QAM	1	0	23.25	22.01	20.39
			1	7	22.05	21.08	22.46
			1	14	21.06	22.40	21.31
			8	0	23.37	21.38	20.35
			8	4	22.07	20.36	22.38
			8	7	21.23	22.41	21.32
			15	0	23.33	21.37	20.40
		64QAM	1	0	23.14	22.10	20.32
			1	7	22.04	21.12	22.42
			1	14	20.97	22.34	21.32
			8	0	23.34	21.35	20.29
			8	4	22.14	20.38	22.28
			8	7	21.15	22.40	21.36
			15	0	23.21	21.28	20.44

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
Band 12	5	QPSK	1	0	23.43	22.45	20.48
			1	12	22.49	21.84	22.57
			1	24	21.81	22.43	21.55
			12	0	23.55	21.44	20.57
			12	6	22.57	20.53	22.53
			12	11	21.97	22.44	21.48
		16QAM	25	0	23.48	21.45	20.45
			1	0	23.48	22.35	20.54
			1	12	22.28	21.56	22.45
			1	24	21.54	22.41	21.46
			12	0	23.61	21.43	20.49
			12	6	22.37	20.55	22.48
		64QAM	12	11	21.66	22.39	21.52
			25	0	23.46	21.44	20.52
			1	0	23.34	22.34	20.38
			1	12	22.23	21.20	22.33
			1	24	21.08	22.36	21.23
			12	0	23.57	21.33	20.33
			12	6	22.42	20.35	22.35
			12	11	21.27	22.37	21.35
			25	0	23.47	21.31	20.42

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23060	23095	23130
					704MHz	707.5MHz	711MHz
Band 12	10	QPSK	1	0	23.47	22.46	20.42
			1	24	22.37	21.33	22.39
			1	49	21.26	22.36	21.46
			25	0	23.49	21.33	20.47
			25	12	22.45	20.39	22.43
			25	24	21.36	22.38	21.43
		16QAM	50	0	23.45	21.34	20.47
			1	0	23.56	22.43	20.42
			1	24	22.31	21.37	22.40
			1	49	21.23	22.37	21.45
			25	0	23.56	21.40	20.49
			25	12	22.32	20.42	22.46
		64QAM	25	24	21.27	22.40	21.50
			50	0	23.67	21.36	20.50
			1	0	23.23	22.42	20.26
			1	24	22.17	21.31	22.23
			1	49	21.07	22.24	21.26
			25	0	23.40	21.18	20.39
			25	12	22.31	20.26	22.27
			25	24	21.22	22.24	21.28
			50	0	23.51	21.22	20.35

LTE Band 40 part(2305-2315):

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					38725	38750	38775
					2307.5	2310	2312.5
Band 40	5	QPSK	1	0	21.65	20.94	22.00
			1	12	19.48	18.93	19.38
			1	24	19.32	17.94	18.41
			12	0	20.49	21.06	21.60
			12	6	18.92	18.55	19.53
			12	11	21.36	20.51	21.89
			25	0	19.47	19.03	19.86
		16QAM	1	0	21.62	21.05	21.22
			1	12	19.48	18.56	19.66
			1	24	21.35	20.15	21.09
			12	0	19.43	19.18	20.10
			12	6	19.15	18.59	19.00
			12	11	21.15	20.28	21.23
			25	0	19.56	19.00	19.06
		64QAM	1	0	21.29	20.71	21.55
			1	12	19.48	18.70	19.59
			1	24	21.09	21.32	21.96
			12	0	19.30	18.37	19.47
			12	6	21.46	20.77	20.75
			12	11	19.38	19.31	19.95
			25	0	18.89	18.25	18.70

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
						38750	
						2310	
Band 40	10	QPSK	1	0		23.80	
			1	24		19.74	
			1	49		19.44	
			25	0		23.21	
			25	12		21.22	
			25	24		22.07	
		50	0		19.76		
		16QAM	1	0		22.54	
			1	24		20.88	
			1	49		23.23	
			25	0		20.23	
			25	12		19.07	
			25	24		21.80	
		50	0		19.47		
		64QAM	1	0		23.92	
			1	24		21.65	
			1	49		23.36	
			25	0		20.50	
			25	12		21.49	
			25	24		19.19	
		50	0		18.32		

LTE Band 40 part(2350-2360):

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					39175	39200	39225
					2352.5	2355	2357.5
Band 40	5	QPSK	1	0	18.58	19.44	19.88
			1	12	17.68	16.63	15.39
			1	24	15.97	15.73	17.58
			12	0	19.86	18.54	17.93
			12	6	17.86	16.37	17.68
			12	11	19.65	18.08	18.76
			25	0	16.64	16.03	16.99
		16QAM	1	0	19.60	18.61	18.68
			1	12	16.37	16.12	15.22
			1	24	19.80	18.30	18.76
			12	0	17.59	16.72	17.62
			12	6	17.27	15.27	16.76
			12	11	19.46	17.99	18.40
			25	0	17.13	15.79	16.52
		64QAM	1	0	19.37	18.46	17.77
			1	12	17.28	16.12	17.37
			1	24	17.90	17.61	18.69
			12	0	16.85	16.92	17.50
			12	6	19.59	18.84	18.89
			12	11	17.36	17.35	17.33
			25	0	16.44	15.49	16.80

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
						39200	
						2355	
Band 40	10	QPSK	1	0		18.88	
			1	24		16.18	
			1	49		15.61	
			25	0		18.29	
			25	12		15.61	
			25	24		19.00	
		16QAM	50	0		16.55	
			1	0		19.90	
			1	24		15.89	
			1	49		19.21	
			25	0		16.51	
			25	12		14.39	
		64QAM	25	24		18.86	
			50	0		17.99	
			1	0		19.11	
			1	24		17.10	
			1	49		18.46	
			25	0		16.79	
			25	12		19.23	
			25	24		17.09	
			50	0		14.34	

LTE Band 41 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40065	40355	40640	40750	41215
					2537.5MHz	2566.5MHz	2595.0MHz	2624.0MHz	2652.5MHz
Band 41	5	QPSK	1	0	22.16	22.27	22.77	22.44	22.38
			1	12	22.32	22.42	22.93	22.59	22.51
			1	24	22.11	22.26	22.84	22.45	22.40
			12	0	21.08	21.28	21.81	21.45	21.47
			12	6	21.04	21.26	21.83	21.45	21.48
			12	11	21.12	21.27	21.96	21.50	21.42
			25	0	21.08	21.29	21.89	21.49	21.49
		16QAM	1	0	21.17	21.46	22.12	21.68	21.74
			1	12	21.33	21.59	22.28	21.82	21.85
			1	24	21.40	21.56	22.19	21.77	21.71
			12	0	20.08	20.29	20.79	20.45	20.49
			12	6	20.00	20.23	20.79	20.41	20.45
			12	11	20.09	20.22	20.88	20.44	20.35
			25	0	20.09	20.28	20.89	20.48	20.47
		64QAM	1	0	22.17	22.29	22.75	22.44	22.40
			1	12	22.32	22.43	22.92	22.59	22.53
			1	24	22.10	22.26	22.87	22.46	22.41
			12	0	21.06	21.28	21.83	21.46	21.49
			12	6	21.07	21.27	21.84	21.46	21.46
			12	11	21.11	21.27	21.91	21.48	21.43
			25	0	21.08	21.28	21.88	21.48	21.47

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40090	40365	40640	40915	41190
					2540.0MHz	2567.5MHz	2595.0MHz	2622.5MHz	2650.0MHz
Band 41	10	QPSK	1	0	22.02	22.21	22.65	22.35	22.39
			1	24	22.13	22.28	22.78	22.44	22.42
			1	49	22.09	22.21	22.82	22.41	22.32
			25	0	20.93	21.15	21.64	21.31	21.37
			25	12	20.97	21.18	21.66	21.34	21.39
			25	24	21.05	21.17	21.81	21.38	21.29
		50	0	21.01	21.18	21.74	21.36	21.34	
		16QAM	1	0	21.17	21.37	21.85	21.53	21.56
			1	24	21.28	21.44	21.97	21.62	21.60
			1	49	21.25	21.37	22.02	21.59	21.49
			25	0	20.02	20.23	20.76	20.40	20.43
			25	12	20.05	20.26	20.74	20.42	20.47
			25	24	20.15	20.26	20.88	20.47	20.37
		50	0	19.99	20.15	20.70	20.33	20.30	
		64QAM	1	0	22.02	22.21	22.68	22.36	22.39
			1	24	22.11	22.26	22.82	22.44	22.40
			1	49	22.08	22.19	22.84	22.40	22.29
			25	0	20.95	21.17	21.65	21.33	21.38
			25	12	20.95	21.14	21.67	21.31	21.32
			25	24	21.04	21.16	21.80	21.37	21.28
		50	0	21.01	21.17	21.72	21.35	21.32	

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40115	40375	40640	40900	41165
					2542.5MHz	2568.5MHz	2595.0MHz	2673.5MHz	2647.5MHz
Band 41	15	QPSK	1	0	22.03	22.24	22.62	22.37	22.45
			1	37	22.21	22.34	22.88	22.52	22.46
			1	74	22.14	22.24	22.83	22.43	22.33
			36	0	21.14	21.30	21.84	21.48	21.45
			36	16	21.15	21.30	21.86	21.49	21.45
			36	35	21.14	21.30	21.84	21.48	21.45
			75	0	21.14	21.29	21.84	21.47	21.44
		16QAM	1	0	21.17	21.40	21.82	21.54	21.62
			1	37	21.38	21.53	22.07	21.71	21.68
			1	74	21.33	21.42	22.02	21.62	21.51
			36	0	21.12	21.28	21.86	21.47	21.44
			36	16	21.15	21.30	21.84	21.48	21.44
			36	35	21.09	21.27	21.83	21.46	21.45
			75	0	20.10	20.28	20.82	20.46	20.45
		64QAM	1	0	22.03	22.26	22.63	22.38	22.49
			1	37	22.22	22.35	22.86	22.52	22.48
			1	74	22.14	22.24	22.83	22.44	22.34
			36	0	21.14	21.29	21.84	21.47	21.44
			36	16	21.13	21.29	21.84	21.47	21.44
			36	35	21.12	21.29	21.85	21.47	21.45
			75	0	21.12	21.31	21.85	21.49	21.49

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)				
					40140	40390	40640	40890	41140
					2545.0MHz	2570.0MHz	2595.0MHz	2620.0MHz	2645.0MHz
Band 41	20	QPSK	1	0	21.95	22.22	22.52	22.32	22.49
			1	49	22.22	22.39	22.93	22.57	22.56
			1	99	22.17	22.28	22.83	22.46	22.38
			50	0	21.05	21.29	21.65	21.41	21.53
			50	24	20.99	21.27	21.65	21.40	21.55
			50	49	21.13	21.24	21.94	21.47	21.34
			100	0	21.05	21.26	21.75	21.42	21.46
		16QAM	1	0	20.99	21.26	21.53	21.35	21.53
			1	49	21.24	21.42	21.92	21.58	21.59
			1	99	21.21	21.27	21.85	21.46	21.33
			50	0	20.01	20.29	20.62	20.40	20.56
			50	24	20.03	20.29	20.65	20.41	20.55
			50	49	20.17	20.26	20.90	20.47	20.34
			100	0	20.07	20.26	20.74	20.42	20.44
		64QAM	1	0	21.94	22.23	22.51	22.32	22.51
			1	49	22.20	22.38	22.90	22.55	22.55
			1	99	22.17	22.26	22.83	22.45	22.34
			50	0	20.99	21.27	21.62	21.39	21.55
			50	24	21.00	21.26	21.65	21.39	21.52
			50	49	21.10	21.24	21.96	21.48	21.38
			100	0	21.03	21.24	21.75	21.41	21.45

Note:

1. Per KDB 447498 D04v01 section 3.1.6, the required test channels number is 5 for LTE Band 41.

LTE Band 66 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131979	132322	132665
					1710.70MHz	1745.00MHz	1779.3MHz
Band 66	1.4	QPSK	1	0	23.46	23.36	23.62
			1	2	23.48	23.36	23.66
			1	5	23.41	23.36	23.58
			3	0	23.54	23.43	23.72
			3	1	23.52	23.42	23.70
			3	2	23.48	23.41	23.71
			6	0	22.63	22.47	22.78
		16QAM	1	0	22.32	22.12	22.37
			1	2	22.35	22.18	22.42
			1	5	22.31	22.18	22.37
			3	0	22.29	22.19	22.49
			3	1	22.31	22.22	22.51
			3	2	22.25	22.20	22.48
			6	0	21.61	21.31	21.73
		64QAM	1	0	21.78	21.13	21.82
			1	2	21.76	21.15	21.82
			1	5	21.71	21.09	21.80
			3	0	21.56	21.32	21.85
			3	1	21.54	21.30	21.85
			3	2	21.57	21.30	21.80
			6	0	20.39	20.28	20.72

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131987	132322	132657
					1711.50MHz	1745.00MHz	1778.50MHz
Band 66	3	QPSK	1	0	23.36	23.27	23.52
			1	7	23.46	23.38	23.63
			1	14	23.35	23.33	23.49
			8	0	22.55	22.36	22.75
			8	4	22.53	22.33	22.73
			8	7	22.55	22.39	22.74
			15	0	22.56	22.42	22.75
		16QAM	1	0	22.30	22.13	22.28
			1	7	22.38	22.21	22.42
			1	14	22.33	22.05	22.26
			8	0	21.54	21.33	21.72
			8	4	21.55	21.32	21.71
			8	7	21.55	21.34	21.70
			15	0	21.58	21.33	21.68
		64QAM	1	0	21.28	21.06	21.81
			1	7	21.41	21.19	21.86
			1	14	21.26	21.07	21.72
			8	0	20.52	20.34	20.68
			8	4	20.54	20.35	20.70
			8	7	20.51	20.42	20.74
			15	0	20.63	20.42	20.73

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131997	132322	132647
					1712.50MHz	1745.00MHz	1777.50MHz
Band 66	5	QPSK	1	0	23.67	23.49	23.78
			1	12	23.81	23.61	23.94
			1	24	23.67	23.55	23.88
			12	0	22.64	22.50	22.87
			12	6	22.64	22.51	22.89
			12	11	22.61	22.50	22.85
			25	0	22.66	22.55	22.84
		16QAM	1	0	22.59	22.54	22.70
			1	12	22.73	22.66	22.85
			1	24	22.57	22.57	22.75
			12	0	21.57	21.50	21.84
			12	6	21.59	21.46	21.87
			12	11	21.54	21.55	21.83
			25	0	21.64	21.49	21.89
		64QAM	1	0	21.39	21.90	21.93
			1	12	21.55	22.06	22.09
			1	24	21.46	21.87	22.03
			12	0	20.65	20.57	20.91
			12	6	20.69	20.52	20.98
			12	11	20.61	20.62	20.95
			25	0	20.65	20.51	20.92

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132022	132322	132622
					1715.00MHz	1745.00MHz	1775.00MHz
Band 66	10	QPSK	1	0	23.65	23.50	23.76
			1	24	23.66	23.57	23.83
			1	49	23.60	23.66	23.87
			25	0	22.59	22.35	22.70
			25	12	22.59	22.35	22.71
			25	24	22.53	22.58	22.75
		16QAM	50	0	22.60	22.43	22.77
			1	0	22.63	22.34	22.47
			1	24	22.66	22.37	22.60
			1	49	22.55	22.38	22.67
			25	0	21.60	21.38	21.73
			25	12	21.59	21.37	21.78
		64QAM	25	24	21.49	21.57	21.85
			50	0	21.59	21.51	21.75
			1	0	21.46	21.21	21.88
			1	24	21.46	21.29	21.96
			1	49	21.41	21.35	22.02
			25	0	20.63	20.40	20.72
			25	12	20.65	20.38	20.74
			25	24	20.60	20.58	20.82
			50	0	20.59	20.55	20.80

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132047	132322	132597
					1717.50MHz	1745.00MHz	1772.50MHz
Band 66	15	QPSK	1	0	23.59	23.38	23.73
			1	37	23.66	23.54	23.85
			1	74	23.51	23.53	23.87
			36	0	22.63	22.55	22.83
			36	16	22.62	22.52	22.76
			36	35	22.65	22.52	22.80
			75	0	22.63	22.53	22.80
		16QAM	1	0	22.59	22.49	22.41
			1	37	22.69	22.65	22.61
			1	74	22.52	22.66	22.61
			36	0	22.64	22.53	22.79
			36	16	22.63	22.52	22.82
			36	35	22.69	22.51	22.80
			75	0	21.56	21.53	21.77
		64QAM	1	0	21.44	21.49	21.81
			1	37	21.51	21.67	21.97
			1	74	21.38	21.66	22.00
			36	0	22.61	22.52	22.83
			36	16	22.61	22.52	22.84
			36	35	22.64	22.51	22.78
			75	0	20.59	20.52	20.76

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132072	132322	132572
					1720.00MHz	1745.00MHz	1770.00MHz
Band 66	20	QPSK	1	0	23.56	23.40	23.53
			1	49	23.73	23.66	23.77
			1	99	23.51	23.60	23.76
			50	0	22.56	22.36	22.68
			50	24	22.58	22.35	22.64
			50	49	22.58	22.59	22.79
			100	0	22.55	22.46	22.69
		16QAM	1	0	22.39	22.46	22.35
			1	49	22.55	22.74	22.57
			1	99	22.42	22.72	22.63
			50	0	21.58	21.38	21.69
			50	24	21.55	21.34	21.71
			50	49	21.56	21.59	21.86
			100	0	21.55	21.48	21.74
		64QAM	1	0	23.52	23.37	23.50
			1	49	23.73	23.66	23.77
			1	99	23.57	23.62	23.73
			50	0	22.65	22.37	22.67
			50	24	22.63	22.37	22.64
			50	49	22.62	22.60	22.79
			100	0	22.64	22.46	22.71

12.4 WLAN 2.4 GHz Band Conducted Power

ANT 12

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	17.78	15.71	15.62
CH 06	2437	18.14	15.97	15.71
CH 11	2462	17.63	15.54	15.43

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n (HT40)	
CH 03	2422	13.86	
CH 06	2437	14.01	
CH 09	2452	14.29	

ANT 14

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	17.38	14.61	14.48
CH 06	2437	17.10	14.33	14.11
CH 11	2462	17.27	14.09	14.03

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n (HT40)	
CH 03	2422	13.59	
CH 06	2437	13.42	
CH 09	2452	13.31	

Note:

- SAR test of WLAN 2.4GHz is performed.
- Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

12.5 WLAN 5.2GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 36	5180	14.83	15.31	14.98
CH 40	5200	15.21	15.29	15.25
CH 48	5240	15.05	15.24	15.05

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 38	5190	13.61	13.50
CH 46	5230	14.16	14.01

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 42	5210	13.60

Note:

1. SAR test of WLAN 5.2GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

12.6 WLAN 5.8GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 149	5745	15.26	15.21	14.78
CH 157	5785	15.13	15.07	15.10
CH 165	5825	16.14	16.24	16.32

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 151	5755	14.31	14.15
CH 159	5795	13.99	13.70

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	13.86

Note:

1. SAR test of WLAN 5.8GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

12.7 Bluetooth Conducted Power

ANT 12

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	9.16	9.40	9.39
CH 39	2441	10.28	9.75	9.69
CH 78	2480	10.56	10.11	10.02

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	4.73	4.45	4.25	4.70
CH 20	2442	5.43	5.06	4.98	5.38
CH 39	2480	5.84	5.59	5.44	5.77

ANT 14

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	9.56	9.68	9.66
CH 39	2441	10.17	9.98	9.91
CH 78	2480	9.06	8.39	8.31

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	4.52	4.85	4.21	4.60
CH 20	2442	5.06	5.03	4.80	5.11
CH 39	2480	5.27	5.40	4.86	5.26

Note:

- SAR test of Bluetooth is performed and the mode with highest average power is selected for SAR testing.
- Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR test for BLE is not required.
- The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

12.8 NFC Conducted Power

Average Power (dBm)	
Frequency (MHz)	ASK
13.56	-43.63

Note:

- Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR test for NFC is not required.

dBm	mW
-43.63	0.00004

- The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.

13 Exposure Positions Consideration

13.1 EUT Antenna Locations

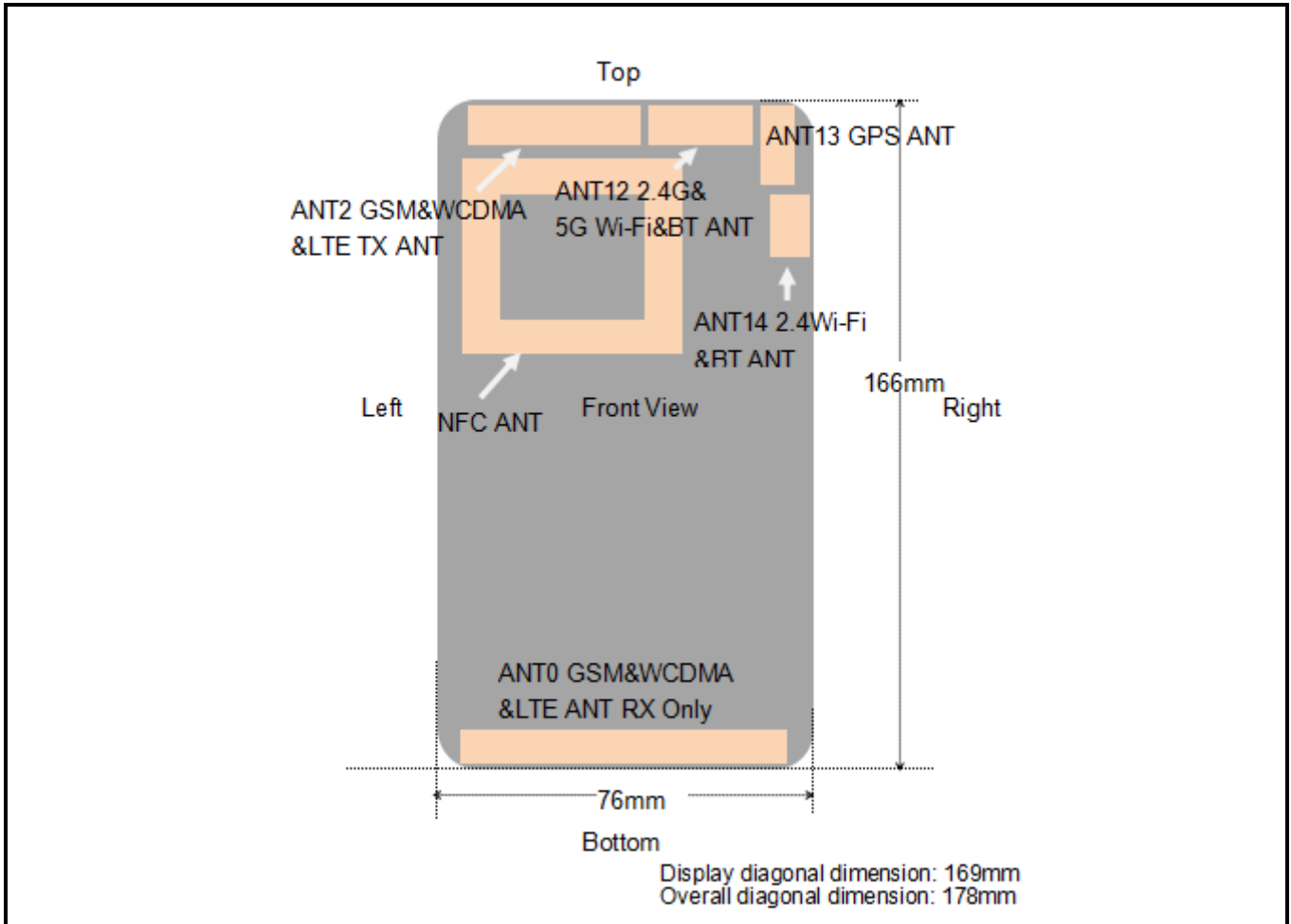


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

13.2 Test Positions Consideration

Distance of Antennas to EUT edge/surface Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
2G/3G/4G	<25mm	<25mm	<25mm	147mm	35mm	<25mm
WLAN & Bluetooth ANT12	<25mm	<25mm	<25mm	150mm	<25mm	42mm
WLAN & Bluetooth ANT14	<25mm	<25mm	<25mm	128mm	<25mm	70mm

Test Positions Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
2G/3G/4G	Yes	Yes	Yes	No	No	Yes
WLAN & Bluetooth ANT12	Yes	Yes	Yes	No	Yes	No
WLAN & Bluetooth ANT14	Yes	Yes	Yes	No	Yes	No

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} * 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
3. Per KDB 447498 D04v01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.
4. Per KDB 648474 D04 v01r03, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg

14 SAR Test Results Summary

14.1 Standalone Head SAR Data

➤ GSM Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GSM850/Voice	Right Cheek	190	836.6	32.91	0.04	33.0	0.804	1.021	0.821
	GSM850/Voice	Right Tilted	190	836.6	32.91	-0.02	33.0	0.752	1.021	0.768
	GSM850/Voice	Left Cheek	190	836.6	32.91	0.14	33.0	0.456	1.021	0.466
	GSM850/Voice	Left Tilted	190	836.6	32.91	0.08	33.0	0.369	1.021	0.377
	GSM850/Voice	Right Cheek	128	824..2	32.84	0.04	33.0	0.671	1.038	0.696
1	GSM850/Voice	Right Cheek	251	848.8	32.89	0.01	33.0	0.901	1.026	0.924
	GSM850/Voice	Right Cheek	251	848.8	32.89	-0.02	33.0	0.885	1.026	0.908
	PCS1900/Voice	Right Cheek	661	1880	31.02	0.16	31.5	0.524	1.117	0.585
2	PCS1900/Voice	Right Tilted	661	1880	31.02	0.13	31.5	0.567	1.117	0.633
	PCS1900/Voice	Left Cheek	661	1880	31.02	-0.02	31.5	0.275	1.117	0.307
	PCS1900/Voice	Left Tilted	661	1880	31.02	0.04	31.5	0.304	1.117	0.340
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Right Cheek	9262	1852.4	22.29	0.01	22.5	0.494	1.05	0.519
3	Band II/RMC	Right Tilted	9262	1852.4	22.29	0.03	22.5	0.545	1.05	0.572
	Band II/RMC	Left Cheek	9262	1852.4	22.29	0.11	22.5	0.254	1.05	0.267
	Band II/RMC	Left Tilted	9262	1852.4	22.29	0.16	22.5	0.291	1.05	0.306
	Band IV/RMC	Right Cheek	1312	1712.4	22.90	0.00	23.0	0.547	1.023	0.560
4	Band IV/RMC	Right Tilted	1312	1712.4	22.90	0.05	23.0	0.576	1.023	0.589
	Band IV/RMC	Left Cheek	1312	1712.4	22.90	0.12	23.0	0.293	1.023	0.300
	Band IV/RMC	Left Tilted	1312	1712.4	22.90	0.11	23.0	0.321	1.023	0.328
	Band V/RMC	Right Cheek	4233	846.6	23.37	0.06	23.5	0.945	1.03	0.973
	Band V/RMC	Right Tilted	4233	846.6	23.37	0.07	23.5	0.911	1.03	0.938
	Band V/RMC	Left Cheek	4233	846.6	23.37	0.11	23.5	0.535	1.03	0.551
	Band V/RMC	Left Tilted	4233	846.6	23.37	0.07	23.5	0.496	1.03	0.511
	Band V/RMC	Right Cheek	4132	826.4	23.22	0.01	23.5	0.847	1.067	0.904
5	Band V/RMC	Right Cheek	4183	836.6	23.33	0.16	23.5	0.982	1.04	1.021
	Band V/RMC	Right Tilted	4132	826.4	23.22	0.12	23.5	0.845	1.067	0.902
	Band V/RMC	Right Tilted	4183	836.6	23.33	-0.04	23.5	0.785	1.04	0.816
	Band V/RMC	Right Cheek	4183	836.6	23.33	0.08	23.5	0.965	1.04	1.004
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#0	Right Cheek	18700	1860	23.31	0.15	24.0	0.508	1.172	0.595
6	Band2/1RB#0	Right Tilted	18700	1860	23.31	0.01	24.0	0.544	1.172	0.638
	Band2/1RB#0	Left Cheek	18700	1860	23.31	-0.03	24.0	0.231	1.172	0.271
	Band2/1RB#0	Left Tilted	18700	1860	23.31	0.06	24.0	0.277	1.172	0.325
	Band2/50%RB#0	Right Cheek	18700	1860	23.58	0.14	24.0	0.482	1.102	0.531
	Band2/50%RB#0	Right Tilted	18700	1860	23.58	-0.17	24.0	0.502	1.102	0.553
	Band2/50%RB#0	Left Cheek	18700	1860	23.58	0.10	24.0	0.239	1.102	0.263
	Band2/50%RB#0	Left Tilted	18700	1860	23.58	0.13	24.0	0.245	1.102	0.270
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 5(10MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
7	Band5/1RB#0	Right Cheek	20450	829	23.38	0.06	24.0	1.040	1.153	1.199
	Band5/1RB#0	Right Tilted	20450	829	23.38	0.10	24.0	0.893	1.153	1.030
	Band5/1RB#0	Left Cheek	20450	829	23.38	0.02	24.0	0.584	1.153	0.673
	Band5/1RB#0	Left Tilted	20450	829	23.38	0.04	24.0	0.537	1.153	0.619
	Band5/1RB#0	Right Cheek	20525	836.5	22.44	0.07	24.0	0.801	1.432	1.147
	Band5/1RB#24	Right Cheek	20600	844	22.44	0.05	24.0	0.819	1.432	1.173
	Band5/1RB#0	Right Tilted	20525	836.5	22.44	0.09	24.0	0.756	1.432	1.083
	Band5/1RB#24	Right Tilted	20600	844	22.44	-0.01	24.0	0.774	1.432	1.108
	Band5/50%RB#0	Right Cheek	20450	829	23.54	0.04	24.0	0.760	1.112	0.845
	Band5/50%RB#0	Right Tilted	20450	829	23.54	0.17	24.0	0.685	1.112	0.762
	Band5/50%RB#0	Left Cheek	20450	829	23.54	-0.07	24.0	0.435	1.112	0.484
	Band5/50%RB#0	Left Tilted	20450	829	23.54	0.19	24.0	0.412	1.112	0.458
	Band5/50%RB#24	Right Cheek	20525	836.5	22.34	-0.11	24.0	0.702	1.466	1.029
	Band5/50%RB#12	Right Cheek	20600	844	22.40	0.03	24.0	0.724	1.445	1.046
	Band5/100%RB#0	Right Cheek	20450	829	23.53	0.16	24.0	0.696	1.114	0.775
	Band5/100%RB#0	Right Tilted	20450	829	23.53	-0.01	24.0	0.652	1.114	0.726
	Band5/1RB#0	Right Cheek	20450	829	23.38	-0.05	24.0	1.010	1.153	1.165
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 7(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#0	Right Cheek	20850	2510	22.34	-0.06	23.0	0.521	1.164	0.606
8	Band7/1RB#0	Right Tilted	20850	2510	22.34	0.16	23.0	0.566	1.164	0.659
	Band7/1RB#0	Left Cheek	20850	2510	22.34	0.15	23.0	0.219	1.164	0.255
	Band7/1RB#0	Left Tilted	20850	2510	22.34	0.19	23.0	0.244	1.164	0.284
	Band7/50%RB#0	Right Cheek	20850	2510	22.66	0.10	23.0	0.507	1.081	0.548
	Band7/50%RB#0	Right Tilted	20850	2510	22.66	-0.15	23.0	0.513	1.081	0.555
	Band7/50%RB#0	Left Cheek	20850	2510	22.66	-0.13	23.0	0.203	1.081	0.219
	Band7/50%RB#0	Left Tilted	20850	2510	22.66	-0.17	23.0	0.222	1.081	0.240
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 12(10MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
9	Band12/1RB#0	Right Cheek	23060	704	23.47	0.03	24.0	0.334	1.13	0.377	
	Band12/1RB#0	Right Tilted	23060	704	23.47	0.07	24.0	0.322	1.13	0.364	
	Band12/1RB#0	Left Cheek	23060	704	23.47	0.17	24.0	0.182	1.13	0.206	
	Band12/1RB#0	Left Tilted	23060	704	23.47	0.12	24.0	0.159	1.13	0.180	
	Band12/50%RB#0	Right Cheek	23060	704	23.49	0.06	24.0	0.288	1.125	0.324	
	Band12/50%RB#0	Right Tilted	23060	704	23.49	-0.06	24.0	0.274	1.125	0.308	
	Band12/50%RB#0	Left Cheek	23060	704	23.49	-0.02	24.0	0.168	1.125	0.189	
	Band12/50%RB#0	Left Tilted	23060	704	23.49	-0.19	24.0	0.147	1.125	0.165	
	ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band40(10MHz)(2305-2315) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
10	Band40/1RB#0	Right Cheek	38750	2310	23.80	-0.18	24.0	0.887	1.047	1.008	0.936
	Band40/1RB#0	Right Tilted	38750	2310	23.80	0.06	24.0	0.995	1.047	1.008	1.050
	Band40/1RB#0	Left Cheek	38750	2310	23.80	-0.11	24.0	0.286	1.047	1.008	0.302
	Band40/1RB#0	Left Tilted	38750	2310	23.80	0.15	24.0	0.325	1.047	1.008	0.343
	Band40/50%RB#0	Right Cheek	38750	2310	23.21	-0.08	23.5	0.736	1.069	1.008	0.793
	Band40/50%RB#0	Right Tilted	38750	2310	23.21	0.03	23.5	0.821	1.069	1.008	0.885
	Band40/50%RB#0	Left Cheek	38750	2310	23.21	-0.09	23.5	0.264	1.069	1.008	0.284
	Band40/50%RB#0	Left Tilted	38750	2310	23.21	0.07	23.5	0.299	1.069	1.008	0.322
	Band40/100%RB#0	Right Cheek	38750	2310	19.76	0.06	20.0	0.675	1.057	1.008	0.719
	Band40/100%RB#0	Right Tilted	38750	2310	19.76	-0.04	20.0	0.739	1.057	1.008	0.787
	Band40/1RB#0	Right Tilted	38750	2310	23.80	0.08	24.0	0.979	1.047	1.008	1.033
	ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band40(10MHz)(2350-2360) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
11	Band40/1RB#0	Right Cheek	39200	2355	18.88	0.09	20.0	0.602	1.294	1.008	0.785
	Band40/1RB#0	Right Tilted	39200	2355	18.88	0.12	20.0	0.761	1.294	1.008	0.993
	Band40/1RB#0	Left Cheek	39200	2355	18.88	0.08	20.0	0.224	1.294	1.008	0.292
	Band40/1RB#0	Left Tilted	39200	2355	18.88	0.15	20.0	0.245	1.294	1.008	0.320
	Band40/50%RB#24	Right Cheek	39200	2355	19.00	-0.12	20.0	0.587	1.259	1.008	0.745
	Band40/50%RB#24	Right Tilted	39200	2355	19.00	0.15	20.0	0.625	1.259	1.008	0.793
	Band40/50%RB#24	Left Cheek	39200	2355	19.00	-0.05	20.0	0.195	1.259	1.008	0.247
	Band40/50%RB#24	Left Tilted	39200	2355	19.00	-0.10	20.0	0.218	1.259	1.008	0.277
	Band40/100%RB#0	Right Tilted	39200	2355	16.55	0.08	17.0	0.592	1.109	1.008	0.662
	ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ TDD-LTE Band41(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	Right Cheek	40640	2595	22.93	0.18	23.0	0.617	1.016	1.008	0.632
12	Band41/1RB#49	Right Tilted	40640	2595	22.93	0.11	23.0	0.738	1.016	1.008	0.756
	Band41/1RB#49	Left Cheek	40640	2595	22.93	0.19	23.0	0.231	1.016	1.008	0.237
	Band41/1RB#49	Left Tilted	40640	2595	22.93	0.06	23.0	0.256	1.016	1.008	0.262
	Band41/50%RB#49	Right Cheek	40640	2595	21.94	-0.04	22.0	0.565	1.014	1.008	0.577
	Band41/50%RB#49	Right Tilted	40640	2595	21.94	-0.19	22.0	0.668	1.014	1.008	0.683
	Band41/50%RB#49	Left Cheek	40640	2595	21.94	0.19	22.0	0.214	1.014	1.008	0.219
	Band41/50%RB#49	Left Tilted	40640	2595	21.94	-0.15	22.0	0.234	1.014	1.008	0.239
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ FDD-LTE Band 66(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band66/1RB#49	Right Cheek	132572	1770	23.77	-0.12	24.0	0.486	1.054	0.512	
13	Band66/1RB#49	Right Tilted	132572	1770	23.77	-0.13	24.0	0.550	1.054	0.580	
	Band66/1RB#49	Left Cheek	132572	1770	23.77	-0.09	24.0	0.216	1.054	0.228	
	Band66/1RB#49	Left Tilted	132572	1770	23.77	0.01	24.0	0.225	1.054	0.237	
	Band66/50%RB#49	Right Cheek	132572	1770	22.79	-0.04	23.0	0.442	1.05	0.464	
	Band66/50%RB#49	Right Tilted	132572	1770	22.79	-0.07	23.0	0.523	1.05	0.549	
	Band66/50%RB#49	Left Cheek	132572	1770	22.79	0.07	23.0	0.201	1.05	0.211	
	Band66/50%RB#49	Left Tilted	132572	1770	22.79	-0.11	23.0	0.213	1.05	0.224	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 2.4 GHz Head SAR

Plot No.	Band/Mode	Ant	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	12	Right Cheek	6	2437	18.14	-0.17	18.5	0.118	1.086	1.000	0.128
	2.4GHz/802.11b	12	Right Tilted	6	2437	18.14	0.18	18.5	0.094	1.086	1.000	0.102
14	2.4GHz/802.11b	12	Left Cheek	6	2437	18.14	0.07	18.5	0.170	1.086	1.000	0.185
	2.4GHz/802.11b	12	Left Tilted	6	2437	18.14	0.02	18.5	0.149	1.086	1.000	0.162
	2.4GHz/802.11b	14	Right Cheek	1	2412	17.38	-0.05	17.5	0.121	1.028	1.000	0.124
	2.4GHz/802.11b	14	Right Tilted	1	2412	17.38	0.07	17.5	0.088	1.028	1.000	0.090
	2.4GHz/802.11b	14	Left Cheek	1	2412	17.38	-0.16	17.5	0.141	1.028	1.000	0.145
	2.4GHz/802.11b	14	Left Tilted	1	2412	17.38	-0.17	17.5	0.125	1.028	1.000	0.129
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g							

➤ Bluetooth Head SAR

Plot No.	Band/Mode	Ant	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	12	Right Cheek	78	2480	10.56	-0.11	11.0	0.031	1.107	1.000	0.034
	BT/GFSK	12	Right Tilted	78	2480	10.56	0.03	11.0	0.023	1.107	1.000	0.025
15	BT/GFSK	12	Left Cheek	78	2480	10.56	-0.09	11.0	0.107	1.107	1.000	0.118
	BT/GFSK	12	Left Tilted	78	2480	10.56	0.03	11.0	0.096	1.107	1.000	0.106
	BT/GFSK	14	Right Cheek	39	2441	10.17	-0.02	10.5	0.017	1.079	1.000	0.018
	BT/GFSK	14	Right Tilted	39	2441	10.17	-0.18	10.5	0.016	1.079	1.000	0.017
	BT/GFSK	14	Left Cheek	39	2441	10.17	0.09	10.5	0.085	1.079	1.000	0.092
	BT/GFSK	14	Left Tilted	39	2441	10.17	0.14	10.5	0.074	1.079	1.000	0.080
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Right Cheek	40	5200	15.21	0.05	15.5	0.173	1.069	1.000	0.185
	5.2GHz/802.11a	Right Tilted	40	5200	15.21	-0.05	15.5	0.245	1.069	1.000	0.262
	5.2GHz/802.11a	Left Cheek	40	5200	15.21	0.01	15.5	0.375	1.069	1.000	0.401
16	5.2GHz/802.11a	Left Tilted	40	5200	15.21	0.17	15.5	0.471	1.069	1.000	0.503
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 5.8 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Right Cheek	165	5825	16.14	0.16	16.5	0.105	1.086	1.000	0.114
	5.8GHz/802.11a	Right Tilted	165	5825	16.14	-0.15	16.5	0.114	1.086	1.000	0.124
	5.8GHz/802.11a	Left Cheek	165	5825	16.14	-0.02	16.5	0.272	1.086	1.000	0.295
17	5.8GHz/802.11a	Left Tilted	165	5825	16.14	0.00	16.5	0.304	1.086	1.000	0.330
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
- Per KDB 248227 D01v02r02, for 802.11b DSSS, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.
- Per KDB 248227 D01v02r02, OFDM SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. Cuz the maximum output power specified for OFDM and DSSS are 39.81mW(16.0dBm) and 70.79mW(18.5dBm), the scaled SAR would be $0.185 \times (39.81/70.79) = 0.104W/Kg < 1.2 W/kg$, therefore, SAR is not required for OFDM.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination
- Highlight part of test data means repeated test.

14.2 Standalone Body SAR

➤ GSM Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	Front	190	836.6	31.92	0.00	32.0	0.269	1.019	0.274
18	GPRS850/2 slots	Back	190	836.6	31.92	-0.03	32.0	0.342	1.019	0.348
	GPRS1900/2 slots	Front	512	1850.2	30.01	0.03	30.5	0.409	1.119	0.458
19	GPRS1900/2 slots	Back	512	1850.2	30.01	0.02	30.5	0.511	1.119	0.572
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Front	9262	1852.4	22.29	0.05	22.5	0.094	1.050	0.099
20	Band II/RMC	Back	9262	1852.4	22.29	-0.06	22.5	0.129	1.050	0.135
	Band IV/RMC	Front	1312	1712.4	22.90	0.15	23.0	0.088	1.023	0.090
21	Band IV/RMC	Back	1312	1712.4	22.90	-0.01	23.0	0.118	1.023	0.121
	Band V/RMC	Front	4233	846.6	23.37	0.03	23.5	0.181	1.030	0.186
22	Band V/RMC	Back	4233	846.6	23.37	-0.03	23.5	0.206	1.030	0.212
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#0	Front	18700	1860	23.31	0.09	24.0	0.123	1.172	0.144
23	Band2/1RB#0	Back	18700	1860	23.31	0.03	24.0	0.132	1.172	0.155
	Band2/50%RB#0	Front	18700	1860	23.58	0.07	24.0	0.104	1.102	0.115
	Band2/50%RB#0	Back	18700	1860	23.58	0.11	24.0	0.118	1.102	0.130
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
24	Band5/1RB#0	Front	20450	829	23.38	0.09	24.0	0.216	1.153	0.249
	Band5/1RB#0	Back	20450	829	23.38	-0.09	24.0	0.177	1.153	0.204
	Band5/50%RB#0	Front	20450	829	23.54	-0.14	24.0	0.202	1.112	0.225
	Band5/50%RB#0	Back	20450	829	23.54	0.01	24.0	0.163	1.112	0.181
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band7/1RB#0	Front	20850	2510	22.34	-0.10	23.0	0.100	1.164	0.116	
25	Band7/1RB#0	Back	20850	2510	22.34	0.12	23.0	0.196	1.164	0.228	
	Band7/50%RB#0	Front	20850	2510	22.66	-0.09	23.0	0.091	1.081	0.098	
	Band7/50%RB#0	Back	20850	2510	22.66	-0.15	23.0	0.181	1.081	0.196	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ FDD-LTE Band 12(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band12/1RB#0	Front	23060	704	23.47	0.00	24.0	0.083	1.130	0.094	
26	Band12/1RB#0	Back	23060	704	23.47	0.02	24.0	0.097	1.130	0.110	
	Band12/50%RB#0	Front	23060	704	23.49	-0.01	24.0	0.077	1.125	0.087	
	Band12/50%RB#0	Back	23060	704	23.49	-0.04	24.0	0.090	1.125	0.101	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE Band 40(10MHz)(2305-2315) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band40/1RB#0	Front	38750	2310	23.80	0.06	24.0	0.188	1.047	1.008	0.198
27	Band40/1RB#0	Back	38750	2310	23.80	-0.03	24.0	0.532	1.047	1.008	0.561
	Band40/50%RB#0	Front	38750	2310	23.21	0.12	23.5	0.171	1.069	1.008	0.184
	Band40/50%RB#0	Back	38750	2310	23.21	0.10	23.5	0.505	1.069	1.008	0.544
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE Band 40(10MHz)(2350-2360) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band40/1RB#0	Front	39200	2355	18.88	-0.05	20.0	0.145	1.294	1.008	0.189
28	Band40/1RB#0	Back	39200	2355	18.88	-0.03	20.0	0.406	1.294	1.008	0.530
	Band40/50%RB#24	Front	39200	2355	19.00	0.03	20.0	0.134	1.259	1.008	0.170
	Band40/50%RB#24	Back	39200	2355	19.00	-0.19	20.0	0.377	1.259	1.008	0.478
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE Band 41(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	Front	40640	2595	22.93	0.03	23.0	0.078	1.016	1.008	0.080
29	Band41/1RB#49	Back	40640	2595	22.93	0.08	23.0	0.224	1.016	1.008	0.229
	Band41/50%RB#49	Front	40640	2595	21.94	-0.06	22.0	0.071	1.014	1.008	0.073
	Band41/50%RB#49	Back	40640	2595	21.94	0.06	22.0	0.205	1.014	1.008	0.210
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band66/1RB#49	Front	132572	1770	23.77	0.16	24.0	0.059	1.054	0.062	
30	Band66/1RB#49	Back	132572	1770	23.77	-0.07	24.0	0.126	1.054	0.133	
	Band66/50%RB#49	Front	132572	1770	22.79	0.14	23.0	0.053	1.050	0.056	
	Band66/50%RB#49	Back	132572	1770	22.79	0.19	23.0	0.115	1.050	0.121	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 2.4GHz Body SAR

Plot No.	Band/Mode	Ant	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	12	Front	6	2437	18.14	-0.06	18.5	0.024	1.086	1.000	0.026
	2.4GHz/802.11b	12	Back	6	2437	18.14	0.07	18.5	0.026	1.086	1.000	0.028
	2.4GHz/802.11b	14	Front	1	2412	17.38	0.07	17.5	0.023	1.028	1.000	0.023
31	2.4GHz/802.11b	14	Back	1	2412	17.38	0.05	17.5	0.037	1.028	1.000	0.038
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g					

➤ Bluetooth Body SAR

Plot No.	Band/Mode	Ant	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	12	Front	78	2480	10.56	-0.06	11.0	0.011	1.107	1.000	0.012
32	BT/GFSK	12	Back	78	2480	10.56	0.04	11.0	0.025	1.107	1.000	0.028
	BT/GFSK	14	Front	39	2441	10.17	-0.03	10.5	0.011	1.079	1.000	0.012
	BT/GFSK	14	Back	39	2441	10.17	0.03	10.5	0.016	1.079	1.000	0.017
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 5.2GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Front	40	5200	15.21	-0.04	15.5	0.050	1.069	1.000	0.053
33	5.2GHz/802.11a	Back	40	5200	15.21	0.00	15.5	0.077	1.069	1.000	0.082
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.8GHz Wi-Fi Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Front	165	5825	16.14	-0.08	16.5	0.080	1.086	1.000	0.087
34	5.8GHz/802.11a	Back	165	5825	16.14	0.00	16.5	0.119	1.086	1.000	0.129
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Body-worn SAR testing was performed at 10mm separation, and this distance is determined by the handset manufacturer that there will be body-worn accessories that users may acquire at the time of equipment certification, to enable users to purchase aftermarket body-worn accessories with the required minimum separation.
2. Per KDB 941225 D06v02r01, when the same wireless modes and device transmission configurations are required for testing body-worn accessories and hotspot mode, it is not necessary to test body-worn accessory SAR for the same device orientation if the test separation distance for hotspot mode is more conservative than that used for body-worn accessories.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call is selected to be tested.
4. Per KDB 648474 D04v01r03, when the *Reported* SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
6. Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
7. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
8. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
9. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
10. Highlight part of test data means repeated test.

14.3 Body SAR in Hotspot Mode

➤ GSM Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	Front	190	836.6	31.92	0.00	32.0	0.269	1.019	0.274
18	GPRS850/2 slots	Back	190	836.6	31.92	-0.03	32.0	0.342	1.019	0.348
	GPRS850/2 slots	Left	190	836.6	31.92	0.12	32.0	0.056	1.019	0.057
	GPRS850/2 slots	Top	190	836.6	31.92	-0.11	32.0	0.290	1.019	0.296
	GPRS1900/2 slots	Front	512	1850.2	30.01	0.03	30.5	0.409	1.119	0.458
	GPRS1900/2 slots	Back	512	1850.2	30.01	0.02	30.5	0.511	1.119	0.572
	GPRS1900/2 slots	Left	512	1850.2	30.01	-0.15	30.5	0.079	1.119	0.088
35	GPRS1900/2 slots	Top	512	1850.2	30.01	0.09	30.5	0.722	1.119	0.808
	GPRS1900/2 slots	Top	661	1880	29.85	0.03	30.5	0.677	1.161	0.786
	GPRS1900/2 slots	Top	810	1909.8	29.51	-0.14	30.5	0.639	1.256	0.803
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Front	9262	1852.4	22.29	0.05	22.5	0.094	1.050	0.099
	Band II/RMC	Back	9262	1852.4	22.29	-0.06	22.5	0.129	1.050	0.135
	Band II/RMC	Left	9262	1852.4	22.29	-0.06	22.5	0.023	1.050	0.024
36	Band II/RMC	Top	9262	1852.4	22.29	0.14	22.5	0.190	1.050	0.200
	Band IV/RMC	Front	1312	1712.4	22.90	0.15	23.0	0.088	1.023	0.090
	Band IV/RMC	Back	1312	1712.4	22.90	-0.01	23.0	0.118	1.023	0.121
	Band IV/RMC	Left	1312	1712.4	22.90	-0.07	23.0	0.020	1.023	0.020
37	Band IV/RMC	Top	1312	1712.4	22.90	0.16	23.0	0.192	1.023	0.196
	Band V/RMC	Front	4233	846.6	23.37	0.03	23.5	0.181	1.030	0.186
22	Band V/RMC	Back	4233	846.6	23.37	-0.03	23.5	0.206	1.030	0.212
	Band V/RMC	Left	4233	846.6	23.37	0.06	23.5	0.029	1.030	0.030
	Band V/RMC	Top	4233	846.6	23.37	-0.10	23.5	0.183	1.030	0.188
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#0	Front	18700	1860	23.31	0.09	24.0	0.123	1.172	0.144
	Band2/1RB#0	Back	18700	1860	23.31	0.03	24.0	0.132	1.172	0.155
	Band2/1RB#0	Left	18700	1860	23.31	0.11	24.0	0.034	1.172	0.040
38	Band2/1RB#0	Top	18700	1860	23.31	0.10	24.0	0.210	1.172	0.246
	Band2/50%RB#0	Front	18700	1860	23.58	0.07	24.0	0.104	1.102	0.115
	Band2/50%RB#0	Back	18700	1860	23.58	0.11	24.0	0.118	1.102	0.130
	Band2/50%RB#0	Left	18700	1860	23.58	-0.19	24.0	0.029	1.102	0.032
	Band2/50%RB#0	Top	18700	1860	23.58	0.08	24.0	0.192	1.102	0.212
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
24	Band5/1RB#0	Front	20450	829	23.38	0.09	24.0	0.216	1.153	0.249
	Band5/1RB#0	Back	20450	829	23.38	-0.09	24.0	0.177	1.153	0.204
	Band5/1RB#0	Left	20450	829	23.38	0.03	24.0	0.031	1.153	0.036
	Band5/1RB#0	Top	20450	829	23.38	0.12	24.0	0.192	1.153	0.221
	Band5/50%RB#0	Front	20450	829	23.54	-0.14	24.0	0.202	1.112	0.225
	Band5/50%RB#0	Back	20450	829	23.54	0.01	24.0	0.163	1.112	0.181
	Band5/50%RB#0	Left	20450	829	23.54	-0.15	24.0	0.026	1.112	0.029
	Band5/50%RB#0	Top	20450	829	23.54	-0.13	24.0	0.179	1.112	0.199
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band7/1RB#0	Front	20850	2510	22.34	-0.10	23.0	0.100	1.164	0.116	
	Band7/1RB#0	Back	20850	2510	22.34	0.12	23.0	0.196	1.164	0.228	
	Band7/1RB#0	Left	20850	2510	22.34	0.06	23.0	0.028	1.164	0.033	
39	Band7/1RB#0	Top	20850	2510	22.34	0.03	23.0	0.341	1.164	0.397	
	Band7/50%RB#0	Front	20850	2510	22.66	-0.09	23.0	0.091	1.081	0.098	
	Band7/50%RB#0	Back	20850	2510	22.66	-0.15	23.0	0.181	1.081	0.196	
	Band7/50%RB#0	Left	20850	2510	22.66	0.13	23.0	0.025	1.081	0.027	
	Band7/50%RB#0	Top	20850	2510	22.66	-0.08	23.0	0.321	1.081	0.347	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ FDD-LTE Band 12(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band12/1RB#0	Front	23060	704	23.47	0.00	24.0	0.083	1.130	0.094	
26	Band12/1RB#0	Back	23060	704	23.47	0.02	24.0	0.097	1.130	0.110	
	Band12/1RB#0	Left	23060	704	23.47	-0.06	24.0	0.013	1.130	0.015	
	Band12/1RB#0	Top	23060	704	23.47	0.19	24.0	0.088	1.130	0.099	
	Band12/50%RB#0	Front	23060	704	23.49	-0.01	24.0	0.077	1.125	0.087	
	Band12/50%RB#0	Back	23060	704	23.49	-0.04	24.0	0.090	1.125	0.101	
	Band12/50%RB#0	Left	23060	704	23.49	-0.16	24.0	0.011	1.125	0.012	
	Band12/50%RB#0	Top	23060	704	23.49	0.00	24.0	0.084	1.125	0.095	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE Band 40(10MHz)(2305-2315) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band40/1RB#0	Front	38750	2310	23.80	0.06	24.0	0.188	1.047	1.008	0.198
	Band40/1RB#0	Back	38750	2310	23.80	-0.03	24.0	0.532	1.047	1.008	0.561
	Band40/1RB#0	Left	38750	2310	23.80	0.12	24.0	0.047	1.047	1.008	0.050
40	Band40/1RB#0	Top	38750	2310	23.80	0.07	24.0	0.641	1.047	1.008	0.676
	Band40/50%RB#0	Front	38750	2310	23.21	0.12	23.5	0.171	1.069	1.008	0.184
	Band40/50%RB#0	Back	38750	2310	23.21	0.10	23.5	0.505	1.069	1.008	0.544
	Band40/50%RB#0	Left	38750	2310	23.21	0.02	23.5	0.042	1.069	1.008	0.045
	Band40/50%RB#0	Top	38750	2310	23.21	-0.12	23.5	0.614	1.069	1.008	0.662
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE Band 40(10MHz)(2350-2360) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band40/1RB#0	Front	39200	2355	18.88	-0.05	20.0	0.145	1.294	1.008	0.189
	Band40/1RB#0	Back	39200	2355	18.88	-0.03	20.0	0.406	1.294	1.008	0.530
	Band40/1RB#0	Left	39200	2355	18.88	0.03	20.0	0.032	1.294	1.008	0.042
41	Band40/1RB#0	Top	39200	2355	18.88	0.07	20.0	0.454	1.294	1.008	0.592
	Band40/50%RB#24	Front	39200	2355	19.00	0.03	20.0	0.134	1.259	1.008	0.170
	Band40/50%RB#24	Back	39200	2355	19.00	-0.19	20.0	0.377	1.259	1.008	0.478
	Band40/50%RB#24	Left	39200	2355	19.00	-0.11	20.0	0.026	1.259	1.008	0.033
	Band40/50%RB#24	Top	39200	2355	19.00	0.17	20.0	0.408	1.259	1.008	0.518
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ TDD-LTE Band 41(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band41/1RB#49	Front	40640	2595	22.93	0.03	23.0	0.078	1.016	1.008	0.080
	Band41/1RB#49	Back	40640	2595	22.93	0.08	23.0	0.224	1.016	1.008	0.229
	Band41/1RB#49	Left	40640	2595	22.93	-0.11	23.0	0.023	1.016	1.008	0.024
42	Band41/1RB#49	Top	40640	2595	22.93	-0.05	23.0	0.304	1.016	1.008	0.311
	Band41/50%RB#49	Front	40640	2595	21.94	-0.06	22.0	0.071	1.014	1.008	0.073
	Band41/50%RB#49	Back	40640	2595	21.94	0.06	22.0	0.205	1.014	1.008	0.210
	Band41/50%RB#49	Left	40640	2595	21.94	0.01	22.0	0.018	1.014	1.008	0.018
	Band41/50%RB#49	Top	40640	2595	21.94	-0.05	22.0	0.277	1.014	1.008	0.283
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#49	Front	132572	1770	23.77	0.16	24.0	0.059	1.054	1.008	0.062
	Band66/1RB#49	Back	132572	1770	23.77	-0.07	24.0	0.126	1.054	1.008	0.133
	Band66/1RB#49	Left	132572	1770	23.77	0.15	24.0	0.019	1.054	1.008	0.020
43	Band66/1RB#49	Top	132572	1770	23.77	0.14	24.0	0.224	1.054	1.008	0.236
	Band66/50%RB#49	Front	132572	1770	22.79	0.14	23.0	0.053	1.050	1.008	0.056
	Band66/50%RB#49	Back	132572	1770	22.79	0.19	23.0	0.115	1.050	1.008	0.121
	Band66/50%RB#49	Left	132572	1770	22.79	-0.09	23.0	0.016	1.050	1.008	0.017
	Band66/50%RB#49	Top	132572	1770	22.79	-0.07	23.0	0.202	1.050	1.008	0.212
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 2.4GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Ant	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	12	Front	6	2437	18.14	-0.06	18.5	0.024	1.086	1.000	0.026
	2.4GHz/802.11b	12	Back	6	2437	18.14	0.07	18.5	0.026	1.086	1.000	0.028
	2.4GHz/802.11b	12	Right	6	2437	18.14	0.06	18.5	0.006	1.086	1.000	0.007
	2.4GHz/802.11b	12	Top	6	2437	18.14	0.03	18.5	0.022	1.086	1.000	0.024
	2.4GHz/802.11b	14	Front	1	2412	17.38	0.07	17.5	0.023	1.028	1.000	0.023
31	2.4GHz/802.11b	14	Back	1	2412	17.38	0.05	17.5	0.037	1.028	1.000	0.038
	2.4GHz/802.11b	14	Right	1	2412	17.38	0.16	17.5	0.023	1.028	1.000	0.024
	2.4GHz/802.11b	14	Top	1	2412	17.38	0.18	17.5	0.007	1.028	1.000	0.007
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Body SAR in Hotspot mode

Plot No.	Band/Mode	Ant	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	12	Front	78	2480	10.56	-0.06	11.0	0.011	1.107	1.000	0.012
32	BT/GFSK	12	Back	78	2480	10.56	0.04	11.0	0.025	1.107	1.000	0.028
	BT/GFSK	12	Right	78	2480	10.56	0.13	11.0	0.004	1.107	1.000	0.004
	BT/GFSK	12	Top	78	2480	10.56	0.11	11.0	0.009	1.107	1.000	0.010
	BT/GFSK	14	Front	39	2441	10.17	-0.03	10.5	0.011	1.079	1.000	0.012
	BT/GFSK	14	Back	39	2441	10.17	0.03	10.5	0.016	1.079	1.000	0.017
	BT/GFSK	14	Right	39	2441	10.17	0.06	10.5	0.013	1.079	1.000	0.014
	BT/GFSK	14	Top	39	2441	10.17	0.11	10.5	0.004	1.079	1.000	0.004
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Front	40	5200	15.21	-0.04	15.5	0.050	1.069	1.000	0.053
	5.2GHz/802.11a	Back	40	5200	15.21	0.00	15.5	0.077	1.069	1.000	0.082
	5.2GHz/802.11a	Right	40	5200	15.21	0.13	15.5	0.013	1.069	1.000	0.014
44	5.2GHz/802.11a	Top	40	5200	15.21	0.02	15.5	0.110	1.069	1.000	0.118
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 5.8GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Front	165	5825	16.14	-0.08	16.5	0.080	1.086	1.000	0.087
	5.8GHz/802.11a	Back	165	5825	16.14	0.00	16.5	0.119	1.086	1.000	0.129
	5.8GHz/802.11a	Right	165	5825	16.14	0.12	16.5	0.022	1.086	1.000	0.024
45	5.8GHz/802.11a	Top	165	5825	16.14	0.07	16.5	0.195	1.086	1.000	0.212
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.

2. Additional WLAN SAR testing was performed for simultaneous transmission analysis.
3. For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
4. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is $< 0.25\text{dB}$ higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is $\leq 1.2\text{W/kg}$, HSDPA SAR evaluation can be excluded.
5. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is $\geq 0.8\text{W/kg}$.
6. Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is $> 1.2\text{W/kg}$, SAR testing with a headset connected to the handset is required.
7. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are $\leq 0.8\text{W/kg}$. Otherwise, SAR is measured for the highest output power channel.
8. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
9. Highlight part of test data means repeated test.
10. *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show " $<0.001^* \text{W/Kg}$ " in the report.

14.4 Product specific 10g SAR

Extremity SAR measurement is not required.

14.5 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1 st Repeated		2 nd Repeated	
					Value	Ratio	Value	Ratio
GSM850/Voice	Right Cheek	251	848.8	0.901	0.885	1.02	/	/
Band V/RMC	Right Cheek	4183	836.6	0.982	0.965	1.02	/	/
Band5/1RB#0	Right Cheek	20450	829	1.04	1.01	1.03	/	/
Band40/1RB#0	Right Tilted	38750	2310	0.995	0.979	1.02	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$
2. Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.

14.6 Multi-Band Simultaneous Transmission Considerations

➤ **Simultaneous Transmission Capabilities**

According to FCC KDB Publication 447498 D04v01, 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.

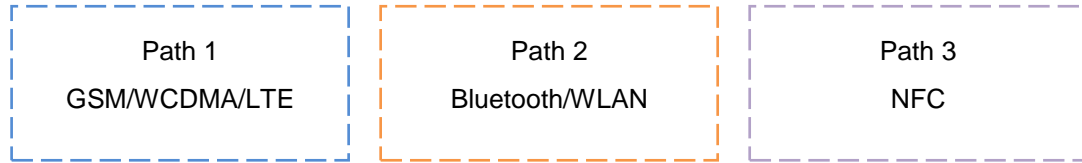


Fig.15.1 Simultaneous Transmission Paths

➤ **Simultaneous Transmission Procedures**

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D04v01, 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 D04v01 Appendix E, E.1), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission assessment involving that transmitter.

$$SAR_{est} = 1.6 \cdot P_{ant} / P_{th} [W/kg].$$

Mode	Max. Power (dBm)	Max. Power (mW)	Exposure Position	Head	Body	Hotspot
NFC	-43.63	0.00004	Estimated SAR (W/kg)	0.000	0.000	0.000

Note:

- Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, P_{th}=1mW.

➤ **Multi-Band simultaneous Transmission Consideration**

Simultaneous Transmission Consideration	Position	Applicable Combination
	Head	WWAN (Voice) + WLAN 2.4 GHz/5.2GHz/5.8GHz+ NFC
		WWAN (Voice) + Bluetooth+ NFC
	Body	WWAN (Voice) + WLAN 2.4 GHz/5.2GHz/5.8GHz+ NFC
		WWAN (Voice) + Bluetooth+ NFC
	Hotspot	WWAN (Data) + WLAN 2.4 GHz/5.2GHz/5.8GH+ NFC
WWAN (Data) + Bluetooth+ NFC		

Note:

- WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.8GHz Band and Bluetooth share the same antenna, and cannot transmit simultaneously.
- GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
- The Report SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D04v01, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6 W/kg.
 - SPLSR = (SAR₁ + SAR₂)^{1.5} / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x₁-x₂)² + (y₁-y₂)² + (z₁-z₂)²], where (x₁, y₁, z₁) and (x₂, y₂, z₂) are the coordinates of the extrapolated peak SAR locations in the zoom scan If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary
 - Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

14.7 SAR Simultaneous Transmission Analysis

➤ Simultaneous Transmission

Position		Standalone SAR(W/kg)					? SAR _{1g} (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
		WWAN	2.4G WLAN	5G WLAN	BT	NFC			
Head	Right Cheek	1.199	0.128	0.185	0.034	0.000	1.327	1.384	1.233
	Right Tilted	1.108	0.102	0.262	0.025	0.000	1.210	1.370	1.133
	Left Cheek	0.673	0.185	0.401	0.118	0.000	0.858	1.074	0.791
	Left Tilted	0.619	0.162	0.503	0.106	0.000	0.781	1.122	0.725
Body-worn	Front	0.458	0.026	0.087	0.012	0.000	0.484	0.545	0.470
	Back	0.572	0.038	0.129	0.028	0.000	0.610	0.701	0.600
Hotspot	Front	0.458	0.026	0.087	0.012	0.000	0.484	0.545	0.470
	Back	0.572	0.038	0.129	0.028	0.000	0.610	0.701	0.600
	Left	0.088	0.000	0.000	0.000	0.000	0.088	0.088	0.088
	Right	0.000	0.024	0.024	0.014	0.000	0.024	0.024	0.014
	Top	0.808	0.024	0.212	0.010	0.000	0.832	1.020	0.818
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

➤ 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 no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01.

14.8 Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEC/IEEE 62209-1528:2020 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

14.9 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

15 Reference

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- [7]. FCC KDB 648474 D04 v01r03, “SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS”, October 2015
- [8]. FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, October 2015
- [9]. FCC KDB 941225 D05 v02r05, “SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES”, Dec 2015
- [10]. FCC KDB 941225 D06 v02r01, " SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES", October 2015
- [11]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

Test Laboratory: JYTSZ

Date: 12.14.2023

DUT: Dipole 750 MHz; Type: D750V3; Serial: SN:1118

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 41.15$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

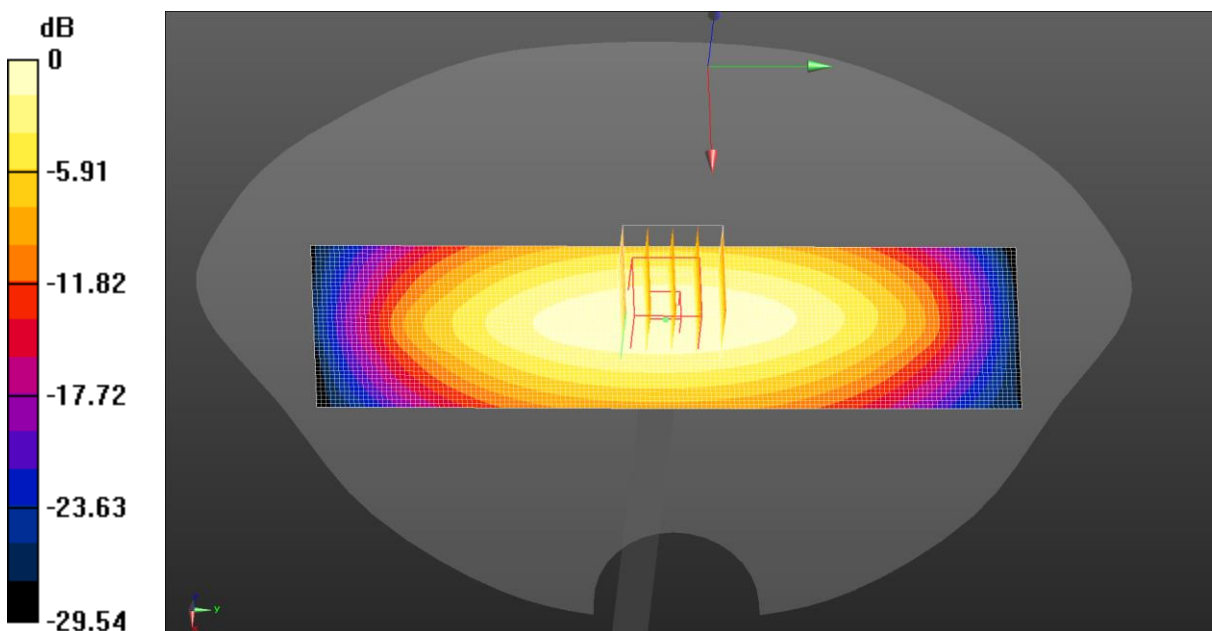
- Probe: EX3DV4 - SN3924; ConvF(10.2, 10.2, 10.2) @ 750 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 32.46 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.447 W/kg
 Smallest distance from peaks to all points 3 dB below = 16.7 mm
 Ratio of SAR at M2 to SAR at M1 = 60.3%
 Maximum value of SAR (measured) = 0.955 W/kg

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x151x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Dipole 835 MHz; Type: D835V2; Serial: SN:4D154

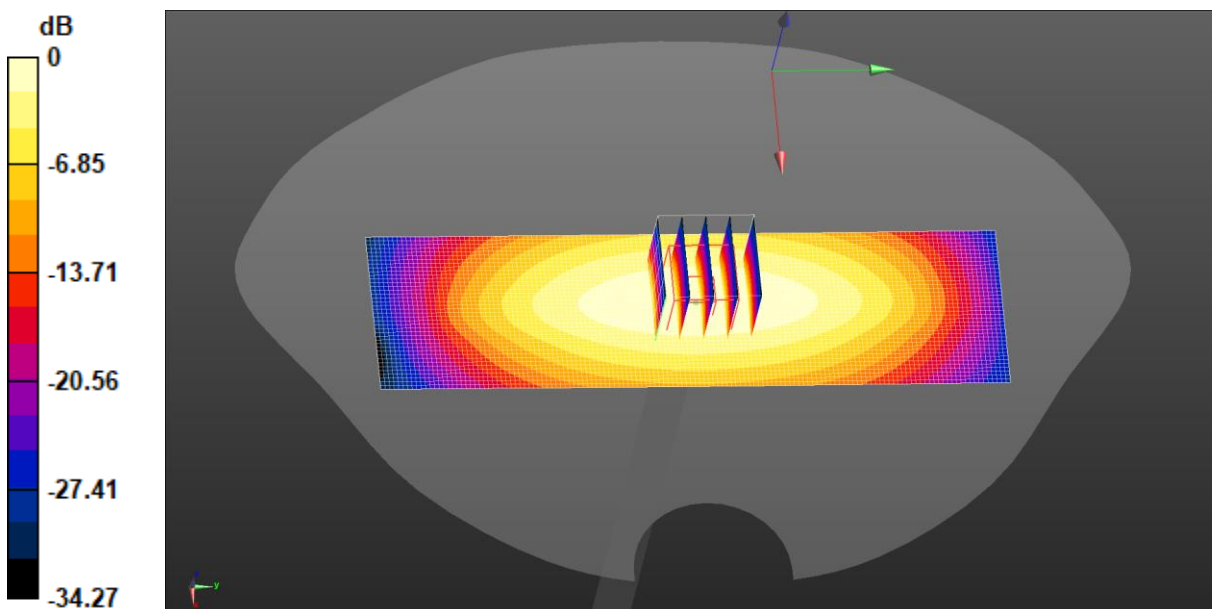
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 40.762$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 835 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 1.07 W/kg

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
 Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 34.34 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.503 W/kg
 Smallest distance from peaks to all points 3 dB below = 14.6 mm
 Ratio of SAR at M2 to SAR at M1 = 58.7%
 Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: SN:1177

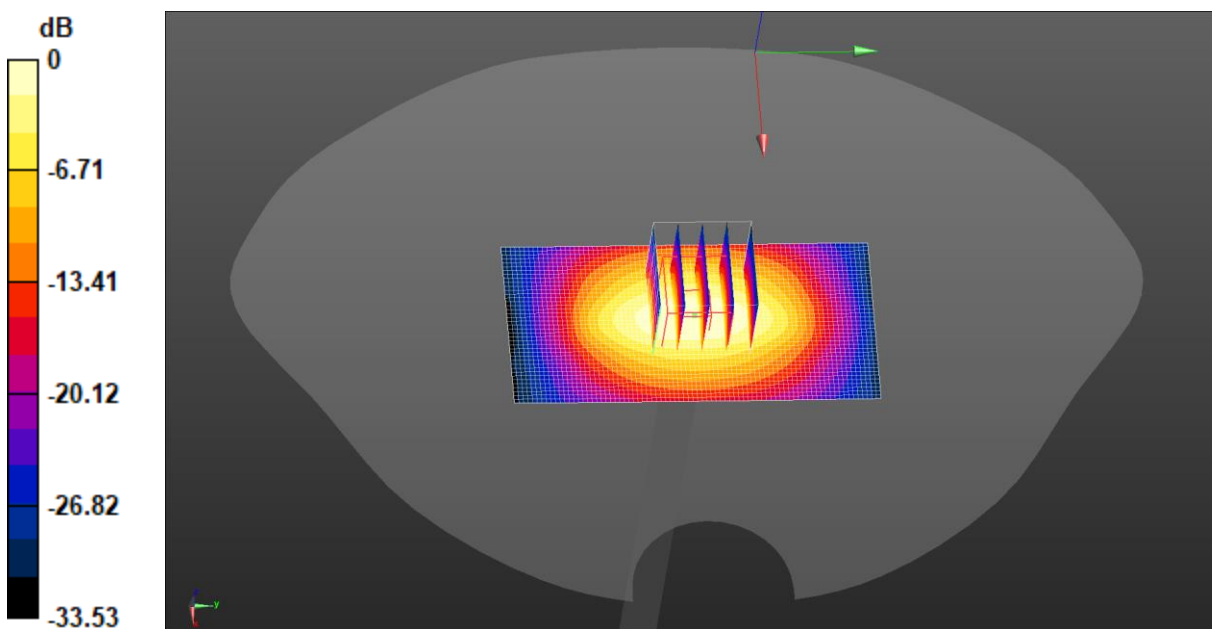
Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.407 \text{ S/m}$; $\epsilon_r = 39.287$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1750 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 2.26 W/kg

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
 Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 42.95 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 2.78 W/kg
SAR(1 g) = 1.47 W/kg; SAR(10 g) = 0.765 W/kg
 Smallest distance from peaks to all points 3 dB below = 10.4 mm
 Ratio of SAR at M2 to SAR at M1 = 51.7%
 Maximum value of SAR (measured) = 2.21 W/kg



0 dB = 2.21 W/kg = 3.44 dBW/kg

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d175

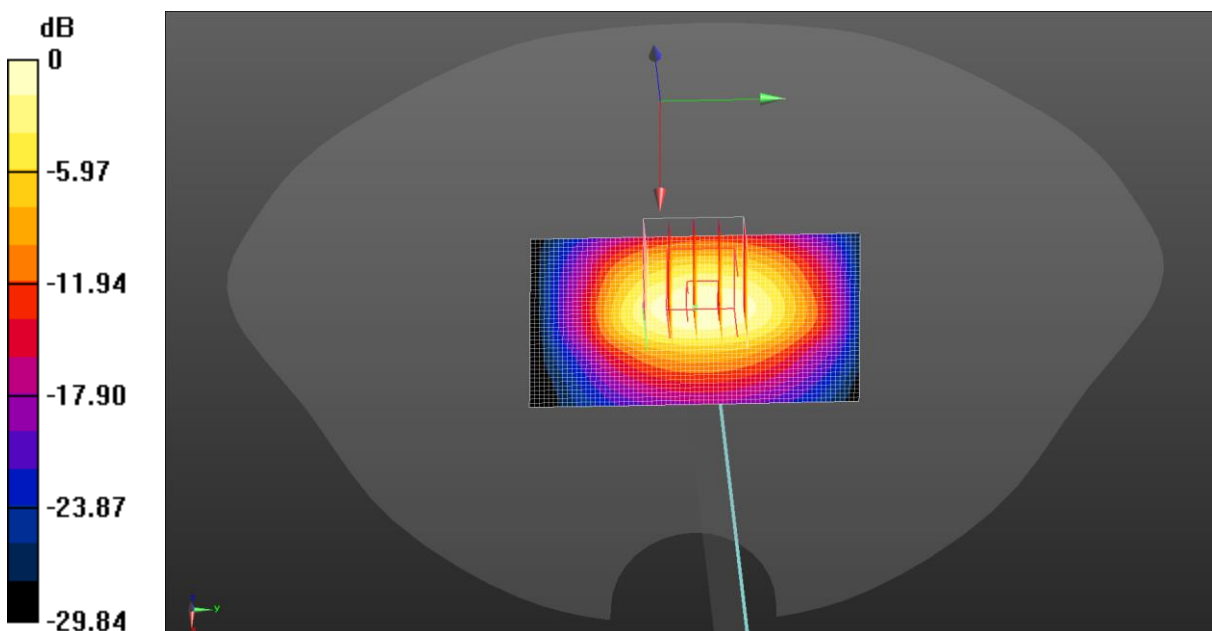
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.44 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1900 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 2.62 W/kg

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
 Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 39.78 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.07 W/kg
SAR(1 g) = 1.61 W/kg; SAR(10 g) = 0.836 W/kg
 Smallest distance from peaks to all points 3 dB below = 11.2 mm
 Ratio of SAR at M2 to SAR at M1 = 51.7%
 Maximum value of SAR (measured) = 2.51 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: SN:910

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 38.408$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2450 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.62 W/kg

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 42.09 V/m; Power Drift = 0.11 dB

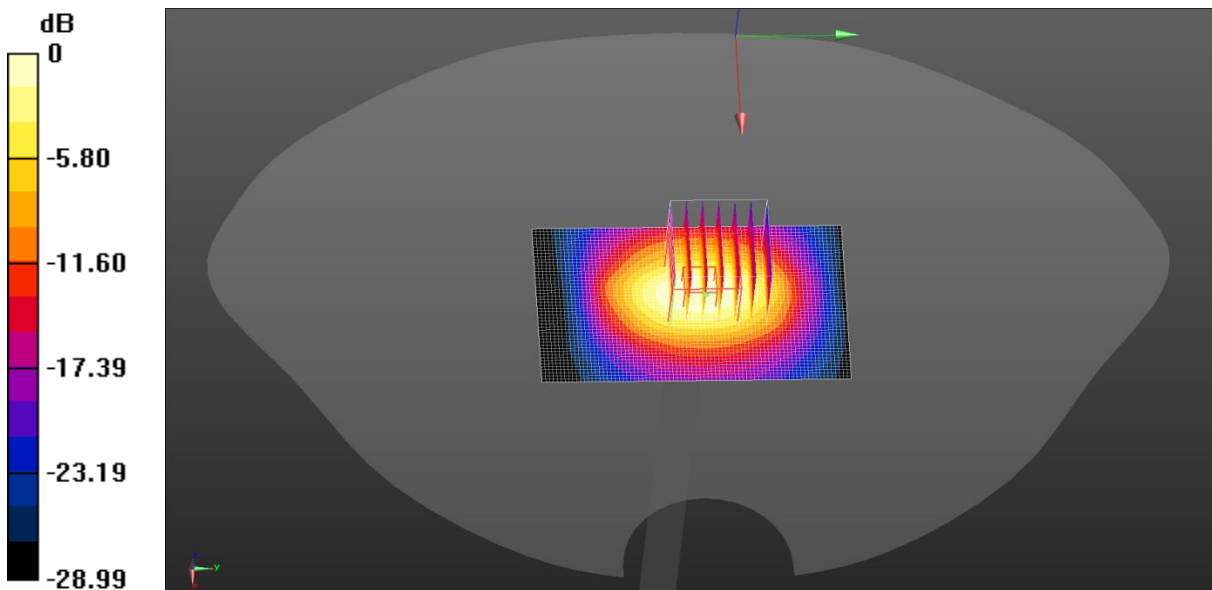
Peak SAR (extrapolated) = 4.41 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 0.981 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 3.39 W/kg



0 dB = 3.40 W/kg = 5.30 dBW/kg

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: SN:1114

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.017$ S/m; $\epsilon_r = 38.217$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35) @ 2600 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 40.14 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.63 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 0.985 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

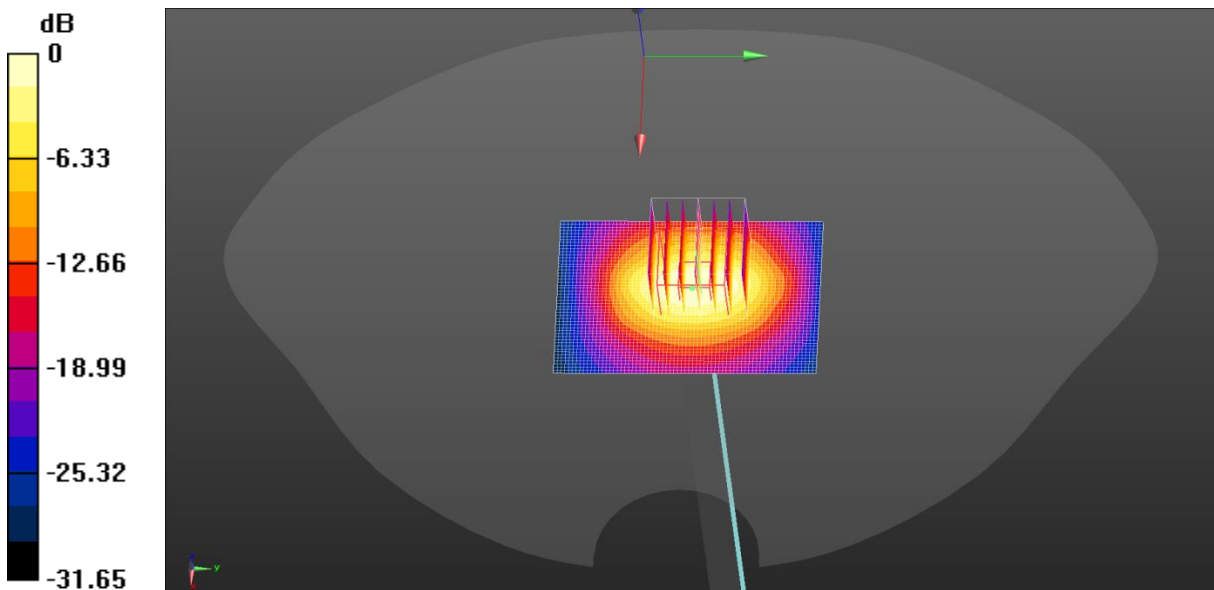
Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 3.46 W/kg

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.93 W/kg



0 dB = 3.93 W/kg = 5.94 dBW/kg

Test Laboratory: JYTSZ

Date: 12.27.2023

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.80 \text{ S/m}$; $\epsilon_r = 35.194$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.41, 5.41, 5.41) @ 5200 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 8.42 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 41.92 V/m; Power Drift = 0.08 dB

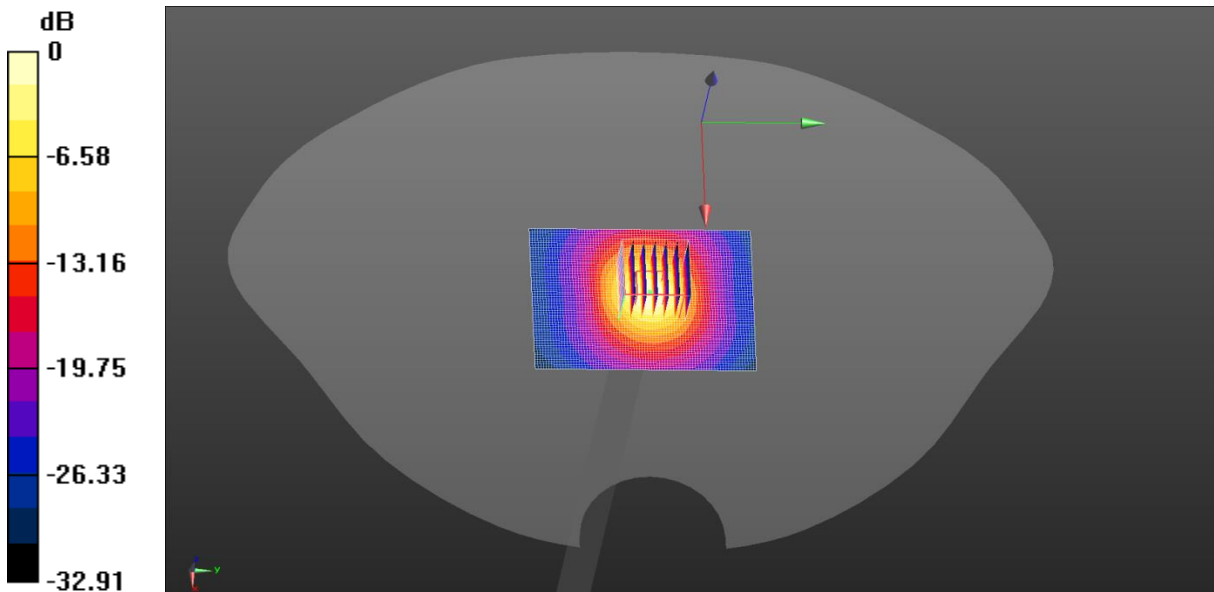
Peak SAR (extrapolated) = 12.97 W/kg

SAR(1 g) = 3.23 W/kg; SAR(10 g) = 0.924 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 8.09 W/kg



0 dB = 8.03 W/kg = 9.08 dBW/kg

Test Laboratory: JYTSZ

Date: 12.29.2023

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.433$ S/m; $\epsilon_r = 34.508$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.9, 4.9, 4.9) @ 5800 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.86 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.85 V/m; Power Drift = 0.12 dB

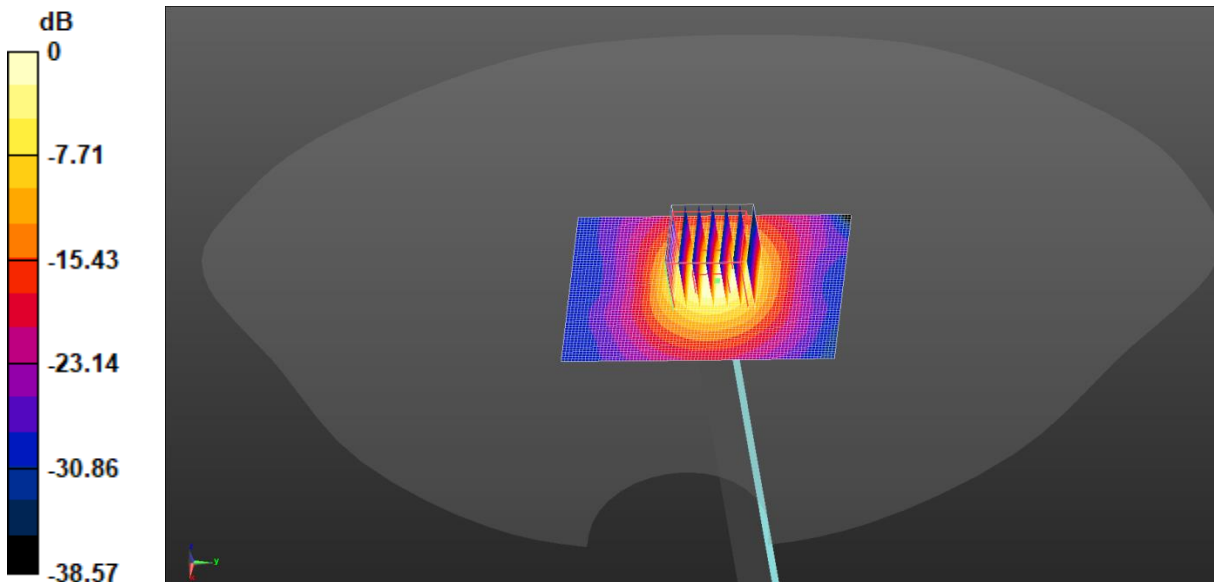
Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 3.3 W/kg; SAR(10 g) = 0.937 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 8.62 W/kg



0 dB = 8.62 W/kg = 9.36 dBW/kg

Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 40.712$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 848.8 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 850 Right Cheek/High Channel/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.07 W/kg

GSM 850 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.17 V/m; Power Drift = 0.01 dB

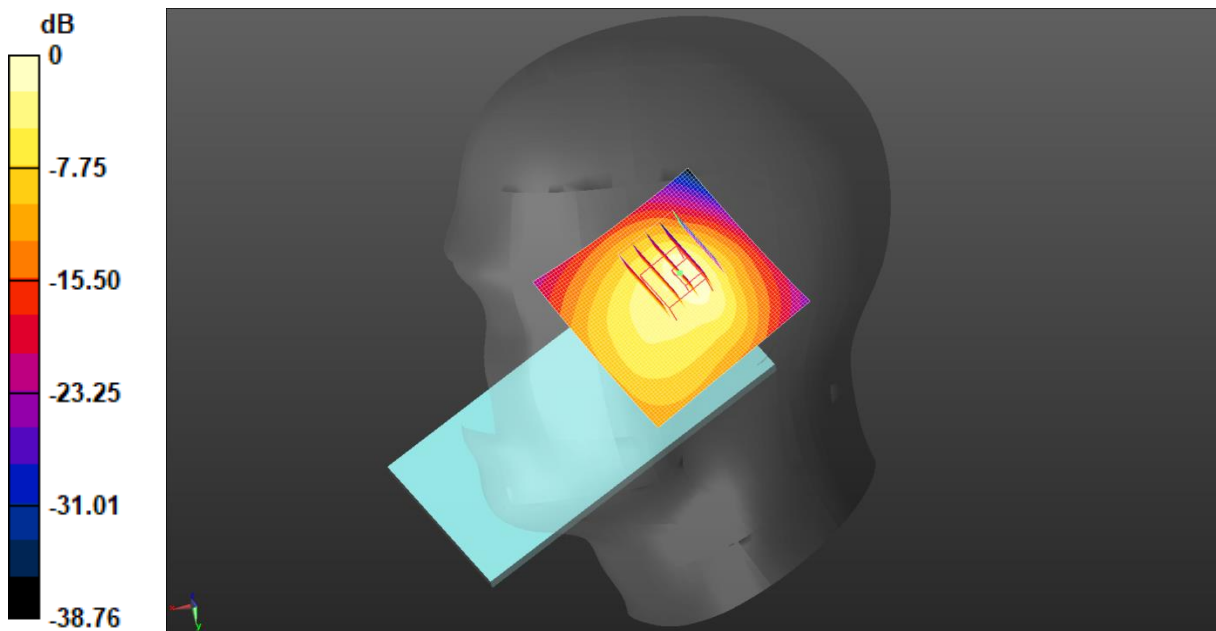
Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.901 W/kg; SAR(10 g) = 0.548 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 38.5%

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 2.07 W/kg = 3.16 dBW/kg

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1880 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 1900 Right Tilted/Middle Channel/Area Scan (61x61x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.05 W/kg

GSM 1900 Right Tilted/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.13 V/m; Power Drift = 0.13 dB

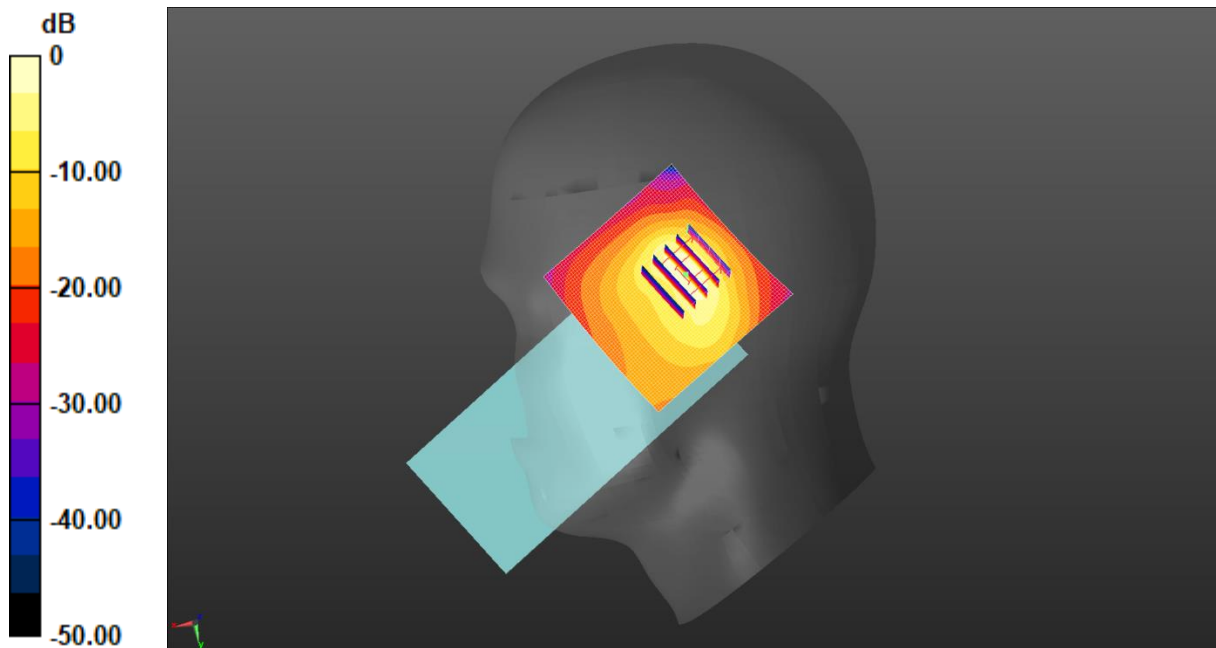
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.250 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 39.208$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1852.4 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Right Tilted/Low Channel/Area Scan (61x61x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

WCDMA 1900 Right Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.64 V/m; Power Drift = 0.03 dB

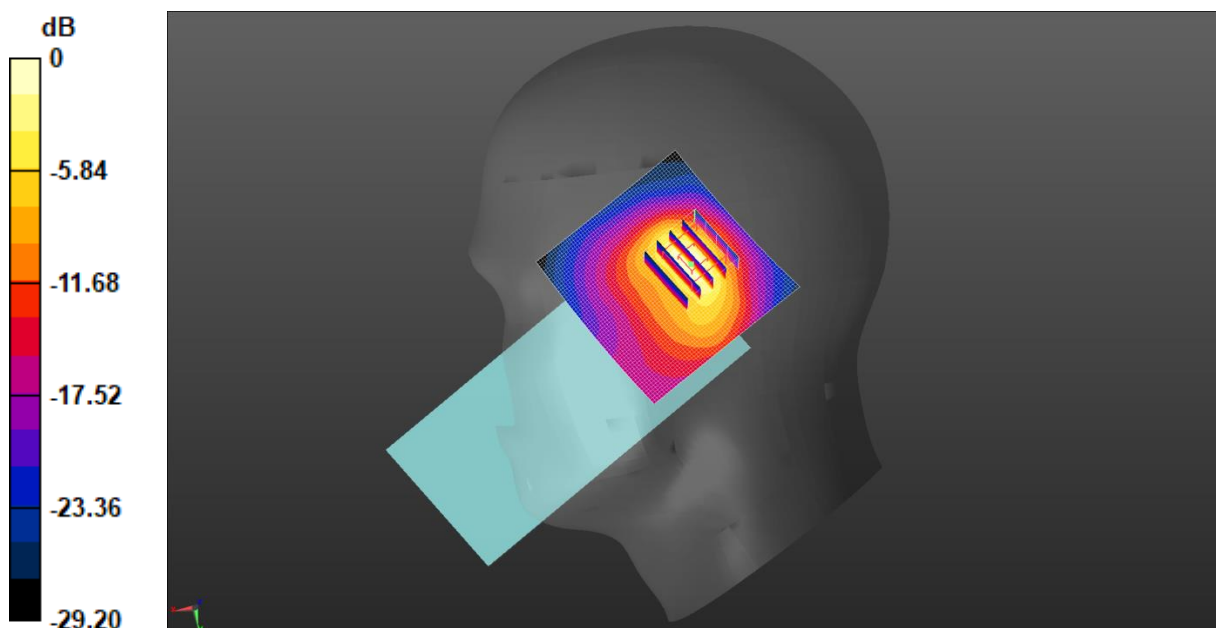
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.237 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 45%

Maximum value of SAR (measured) = 0.925 W/kg



0 dB = 1.01 W/kg = 0.03 dBW/kg

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 39.314$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1712.4 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Right Tilted/Low Channel/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

WCDMA 1700 Right Tilted/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.40 V/m; Power Drift = 0.05 dB

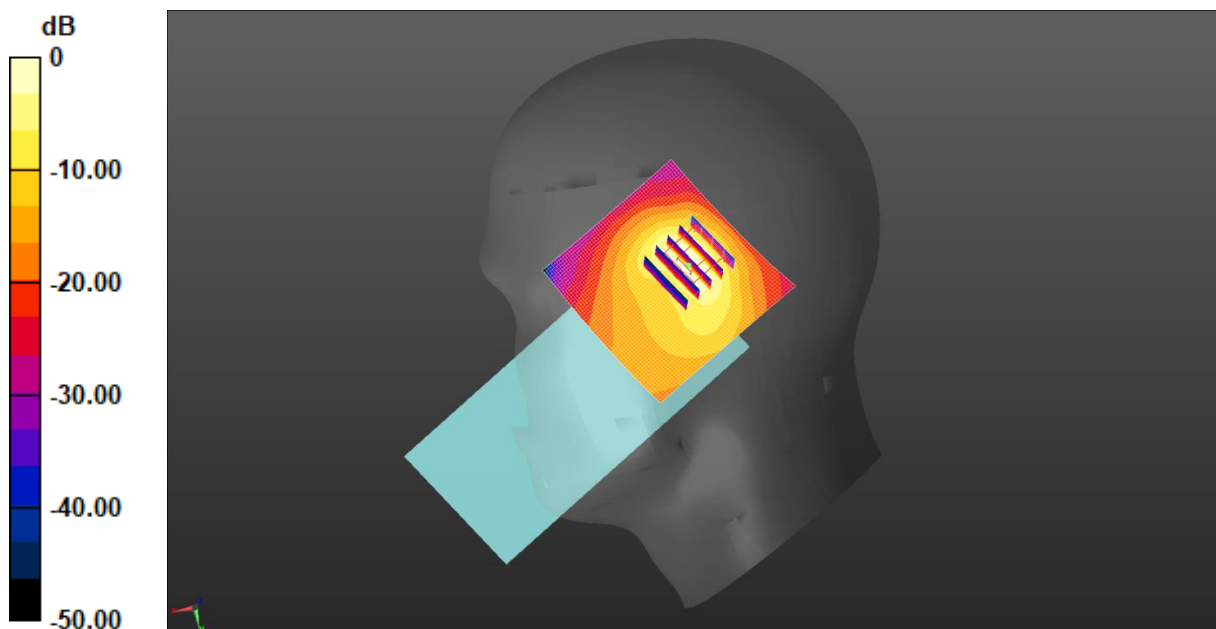
Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.253 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.1%

Maximum value of SAR (measured) = 0.942 W/kg



0 dB = 1.04 W/kg = 0.16 dBW/kg

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 40.72$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 846.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 850 Right Cheek/High Channel/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.36 W/kg

WCDMA 850 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.17 V/m; Power Drift = 0.16 dB

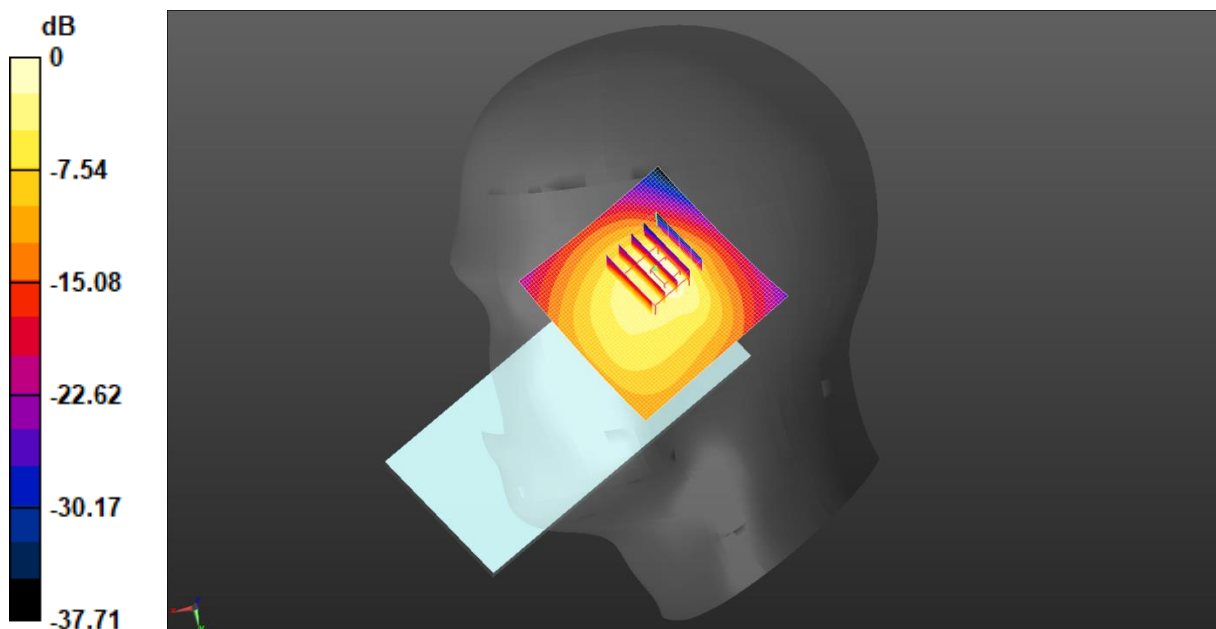
Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.598 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 36.9%

Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 2.36 W/kg = 3.72 dBW/kg

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1860 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Area Scan (61x61x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.927 W/kg

LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.95 V/m; Power Drift = 0.01 dB

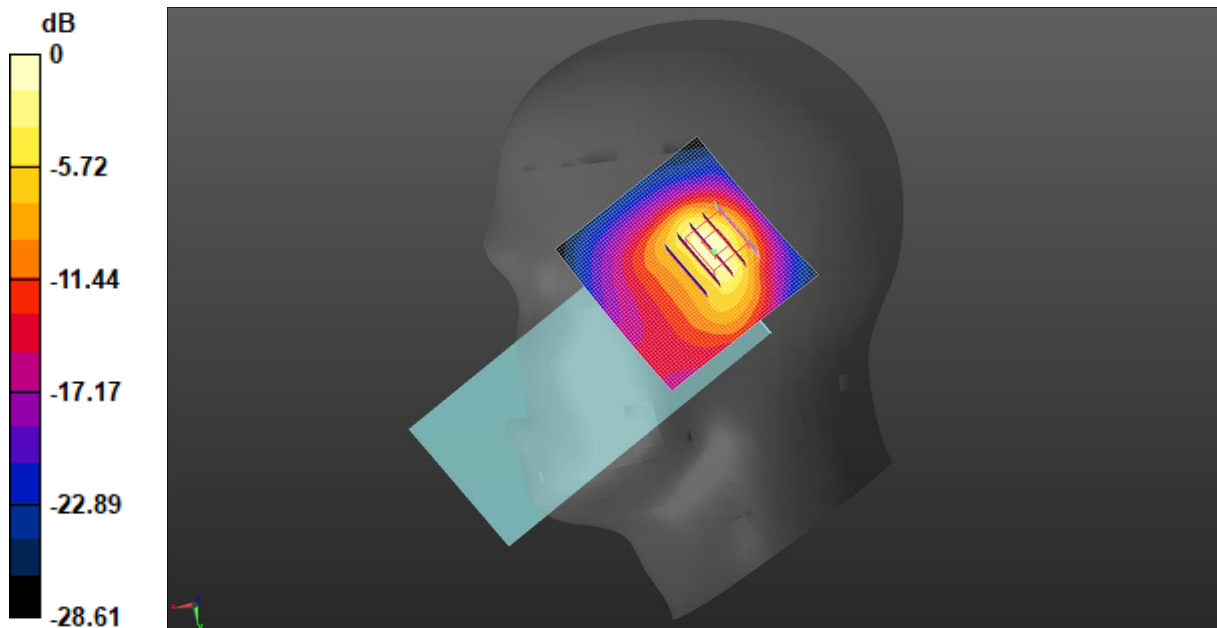
Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.244 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 48.7%

Maximum value of SAR (measured) = 0.778 W/kg



$0 \text{ dB} = 0.927 \text{ W/kg} = -0.33 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 829 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 829$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 40.757$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 829 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 5 1RB(10MHz) Right Cheek/Low Channel/Area Scan (61x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.36 W/kg

LTE Band 5 1RB(10MHz) Right Cheek/Low Channel/Zoom Scan**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.82 V/m; Power Drift = 0.06 dB

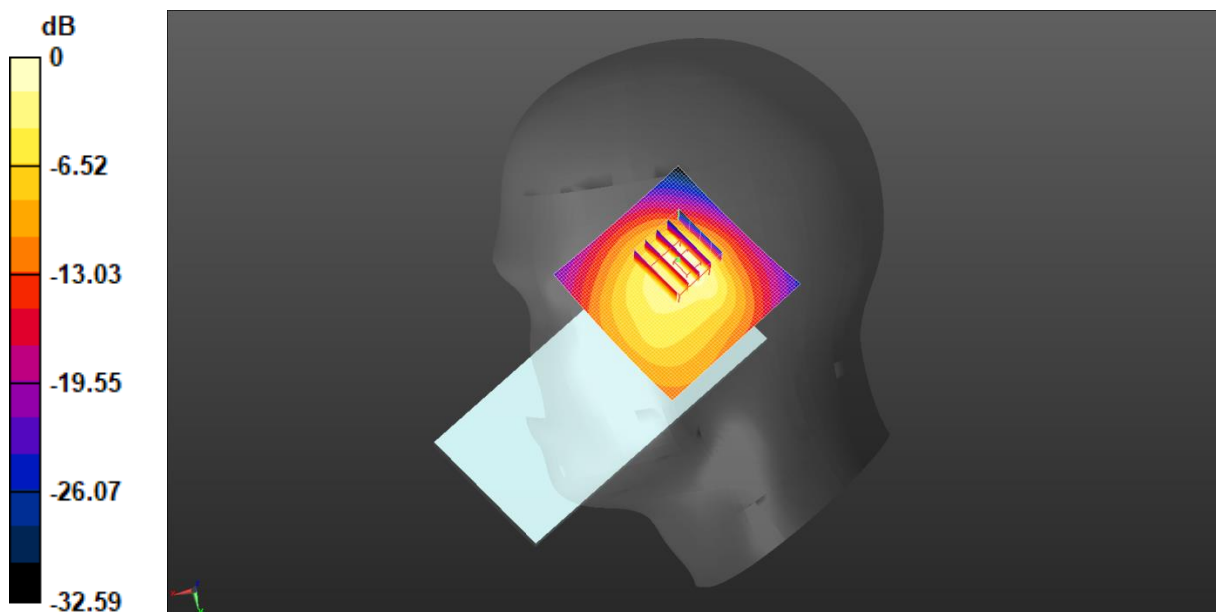
Peak SAR (extrapolated) = 2.49 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.642 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 38.5%

Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 2.36 W/kg = 3.73 dBW/kg

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 38.332$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2510 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Right Tilted/Low Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.955 W/kg

LTE Band 7 1RB(20MHz) Right Tilted/Low Channel/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.009 V/m; Power Drift = 0.16 dB

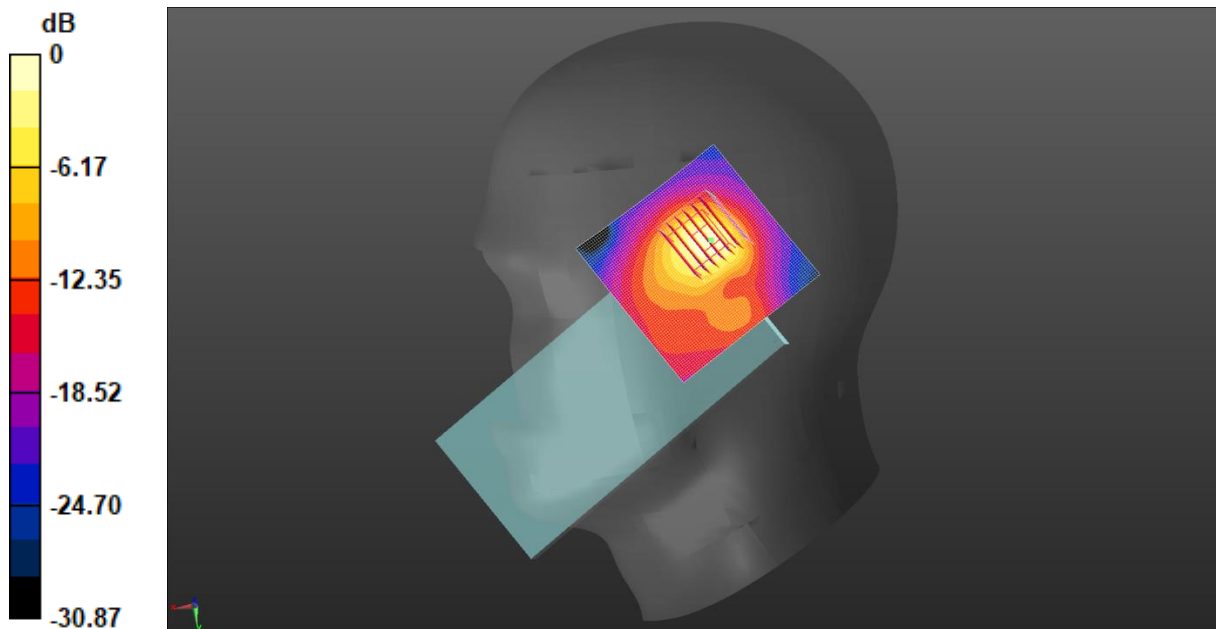
Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.242 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 38.6%

Maximum value of SAR (measured) = 1.10 W/kg



$0 \text{ dB} = 1.10 \text{ W/kg} = 0.41 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.14.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 704 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.905 \text{ S/m}$; $\epsilon_r = 41.37$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.2, 10.2, 10.2) @ 704 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 1RB(10MHz) Right Cheek/Middle Channel/Area Scan

(61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.805 W/kg

LTE Band 12 1RB(10MHz) Right Cheek/Middle Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.49 V/m; Power Drift = 0.03 dB

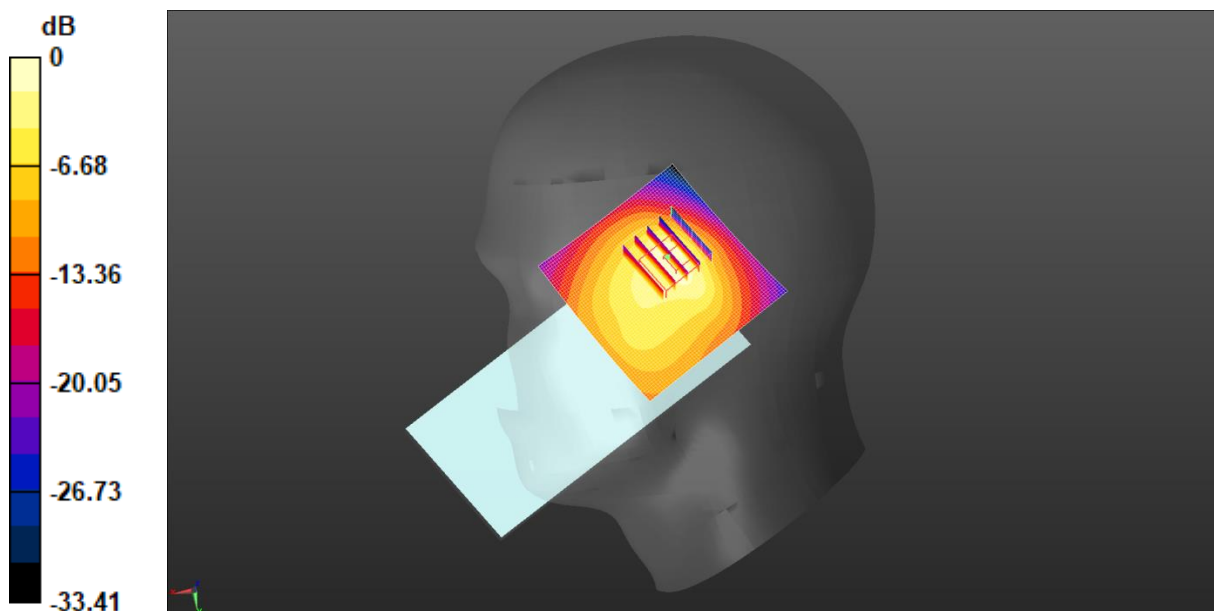
Peak SAR (extrapolated) = 0.886 W/kg

SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.196 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 35.3%

Maximum value of SAR (measured) = 0.570 W/kg



$0 \text{ dB} = 0.805 \text{ W/kg} = -0.94 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 10MHz 1RB QPSK (0); Frequency: 2310 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.724$ S/m; $\epsilon_r = 38.657$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.85, 7.85, 7.85) @ 2310 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 40 1RB(10MHz) Right Tilted/Middle Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.68 W/kg

LTE Band 40 1RB(10MHz) Right Tilted/Middle Channel/Zoom Scan**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.10 V/m; Power Drift = 0.06 dB

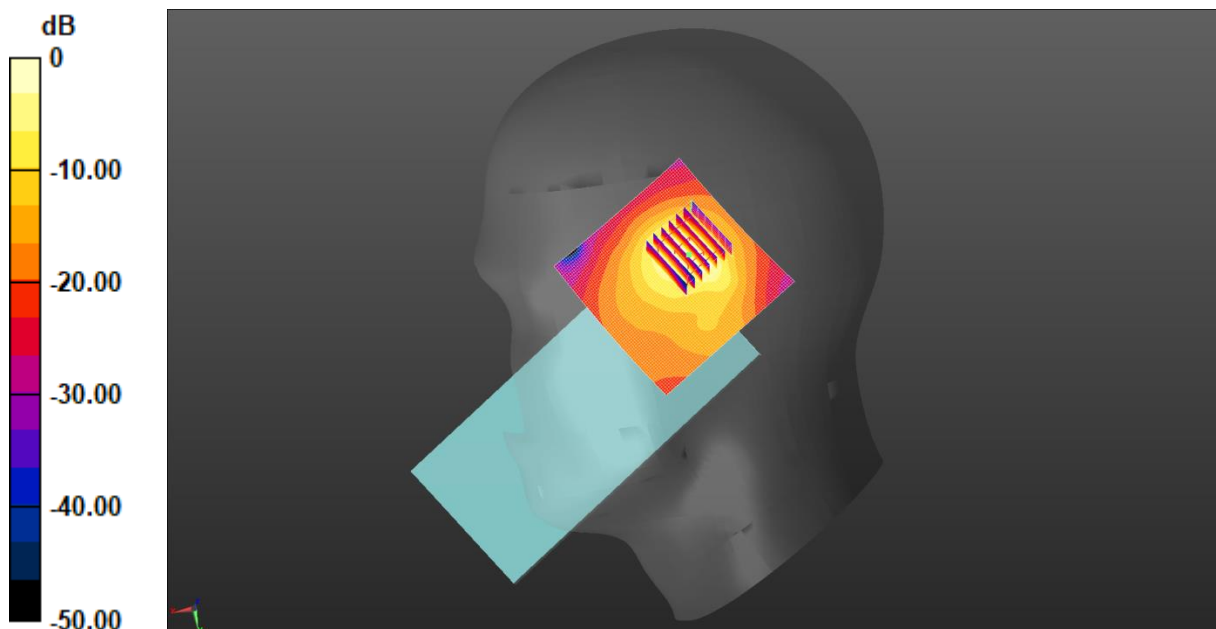
Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.995 W/kg; SAR(10 g) = 0.403 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 42.6%

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 10MHz 1RB QPSK (0); Frequency: 2355 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2355$ MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 38.577$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.85, 7.85, 7.85) @ 2355 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 40 1RB(20MHz) Right Tilted/Middle Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

LTE Band 40 1RB(20MHz) Right Tilted/Middle Channel/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.723 V/m; Power Drift = 0.12 dB

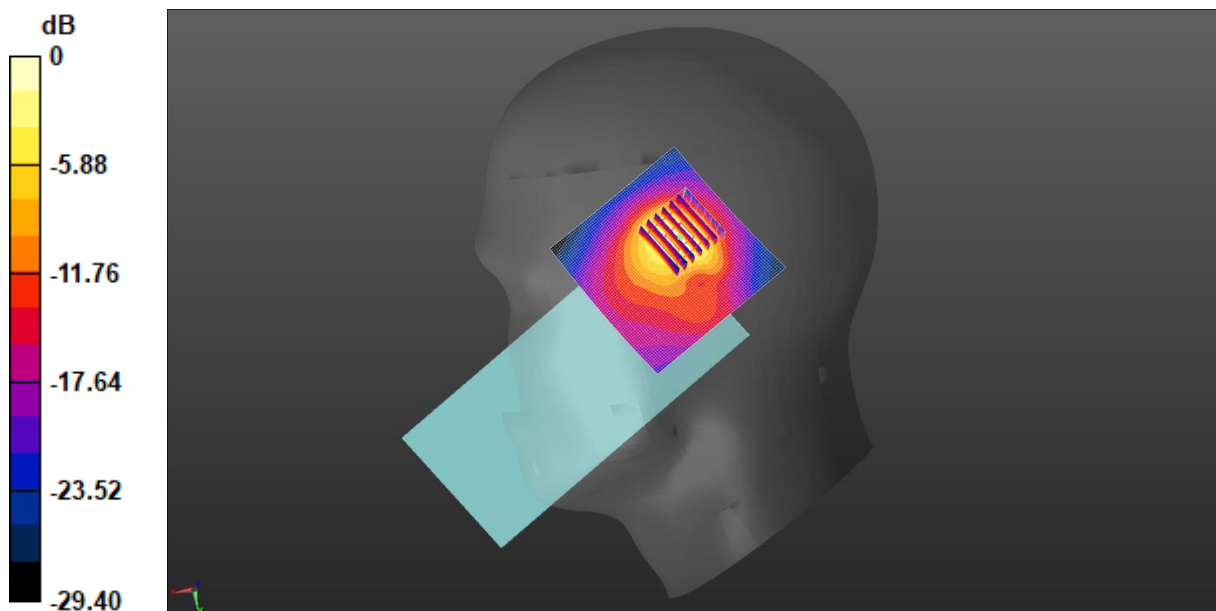
Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.312 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 41.3%

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 38.223$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2595 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 41 1RB(20MHz) Right Tilted/Middle Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

LTE Band 41 1RB(20MHz) Right Tilted/Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.313 V/m; Power Drift = 0.11 dB

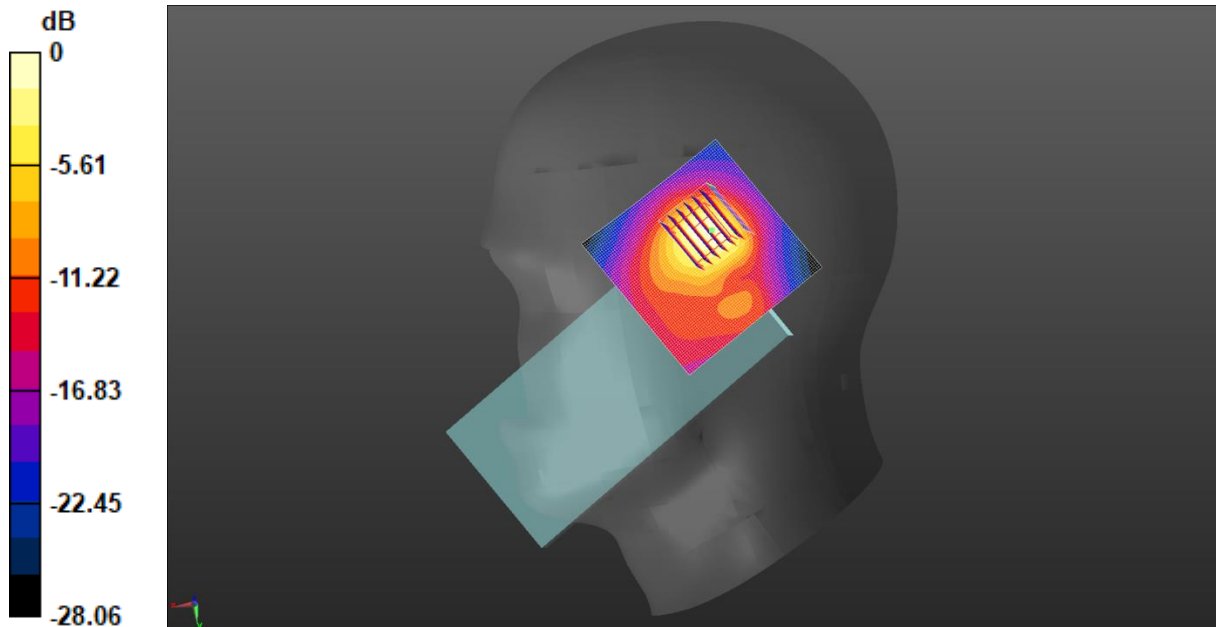
Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.320 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 38.7%

Maximum value of SAR (measured) = 1.43 W/kg



$0 \text{ dB} = 1.27 \text{ W/kg} = 1.03 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1770$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 39.255$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1770 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Right Tilted/High Channel/Area Scan (61x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

LTE Band 66 1RB(20MHz) Right Tilted/High Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.71 V/m; Power Drift = -0.13 dB

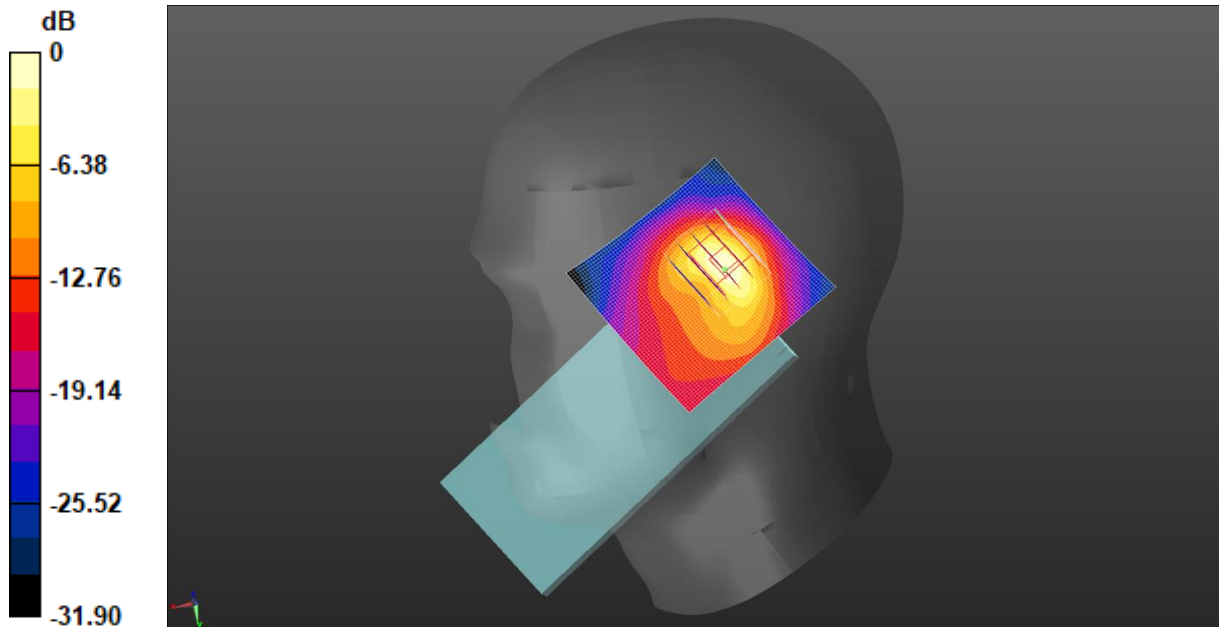
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.240 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 44%

Maximum value of SAR (measured) = 0.931 W/kg



0 dB = 1.01 W/kg = 0.06 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.839$ S/m; $\epsilon_r = 38.431$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2.4G WiFi Left Cheek/Middle Channel/Area Scan (71x71x1): Interpolated grid:
 $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.300 W/kg

2.4G WiFi Left Cheek/Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.052 V/m; Power Drift = 0.07 dB

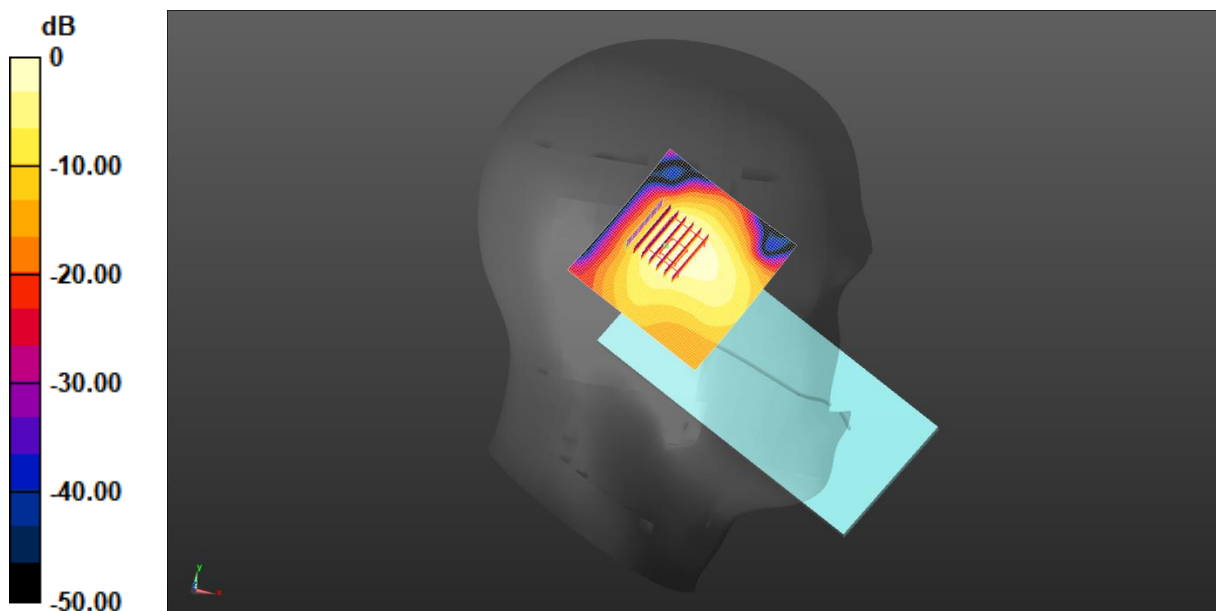
Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.082 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 35.6%

Maximum value of SAR (measured) = 0.301 W/kg



0 dB = 0.300 W/kg = -5.22 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

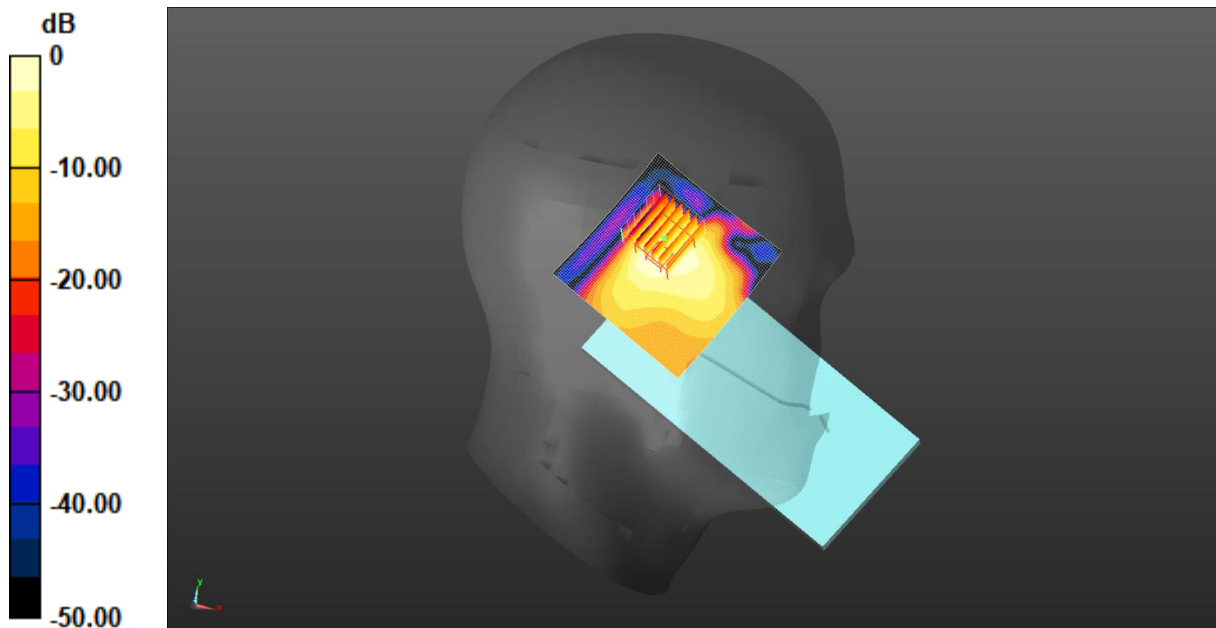
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.884 \text{ S/m}$; $\epsilon_r = 38.37$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Bluetooth Left Cheek/High Channel/Area Scan (71x71x1): Interpolated grid:
 $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.254 W/kg

Bluetooth Left Cheek/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.190 V/m; Power Drift = -0.09 dB
 Peak SAR (extrapolated) = 0.279 W/kg
SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.049 W/kg
 Smallest distance from peaks to all points 3 dB below = 7.3 mm
 Ratio of SAR at M2 to SAR at M1 = 33.9%
 Maximum value of SAR (measured) = 0.196 W/kg



$0 \text{ dB} = 0.254 \text{ W/kg} = -5.95 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.27.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.801$ S/m; $\epsilon_r = 35.194$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.41, 5.41, 5.41) @ 5200 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WiFi Left Tilted/Middle Channel/Area Scan (81x81x1): Interpolated grid:

$dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.09 W/kg

5.2G WiFi Left Tilted/Middle Channel/Zoom Scan (7x7x12)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.592 V/m; Power Drift = 0.17 dB

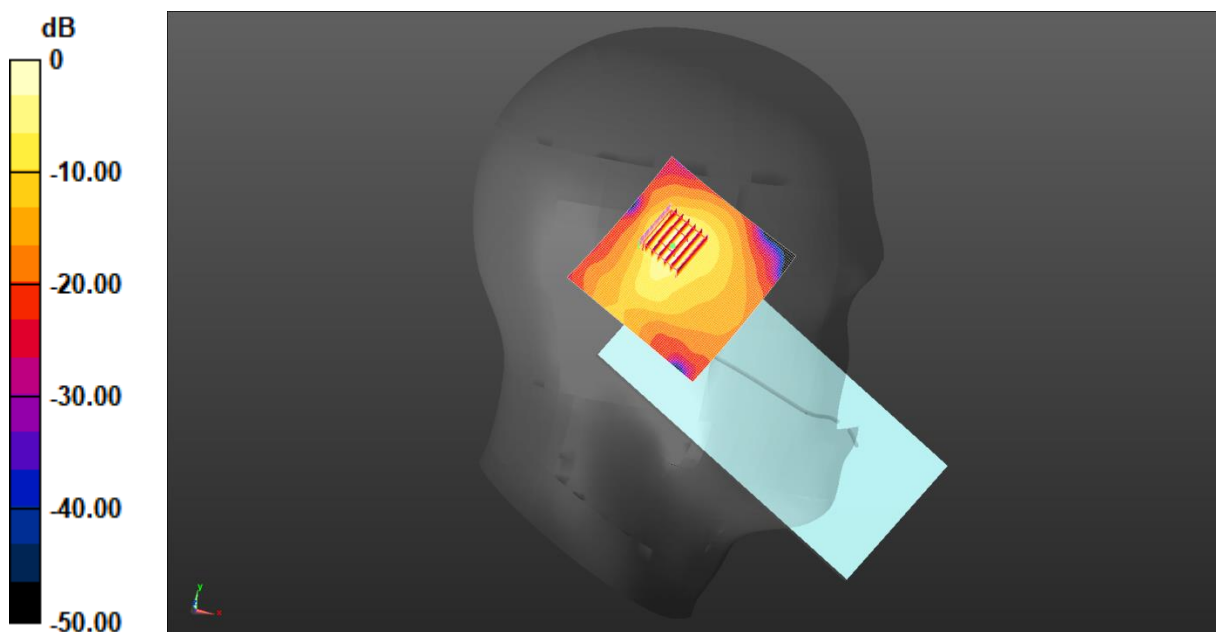
Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.129 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

Test Laboratory: JYTSZ

Date: 12.29.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.459$ S/m; $\epsilon_r = 34.479$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.9, 4.9, 4.9) @ 5825 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WiFi Left Tilted/High Channel/Area Scan (81x81x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.669 W/kg

5.8G WiFi Left Tilted/High Channel/Zoom Scan (7x7x12)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.097 V/m; Power Drift = 0.00 dB

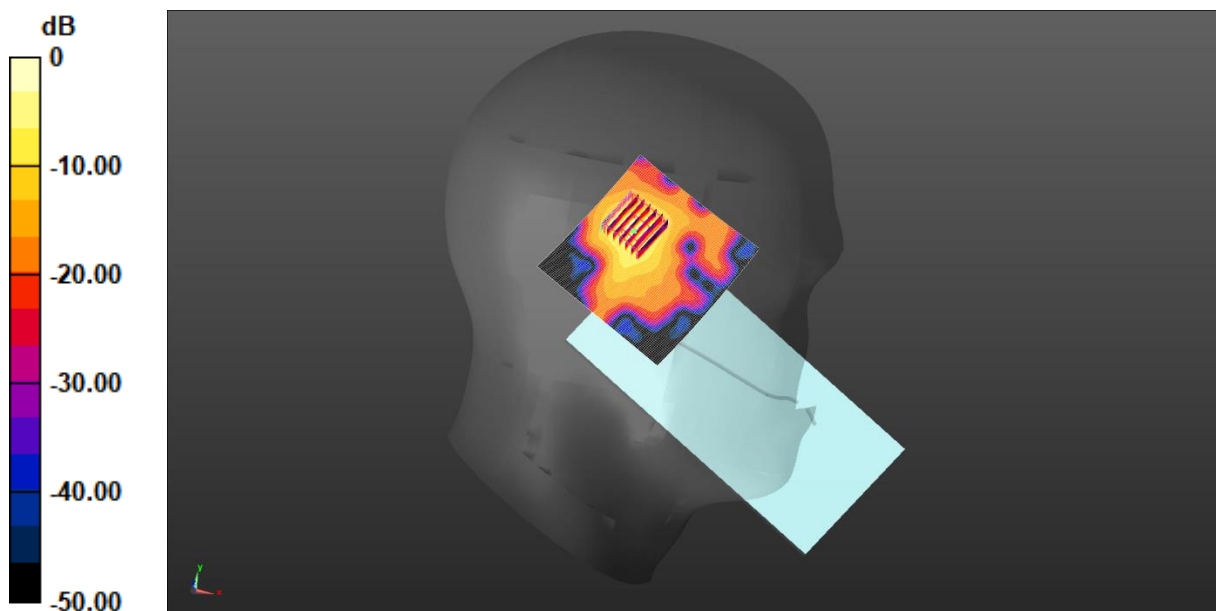
Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.067 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 0.848 W/kg



0 dB = 0.848 W/kg = -0.72 dBW/kg

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 40.757$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 836.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GPRS 850 4Slots Body Back/Middle Channel/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.528 W/kg

GPRS 850 4Slots Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.92 V/m; Power Drift = -0.03 dB

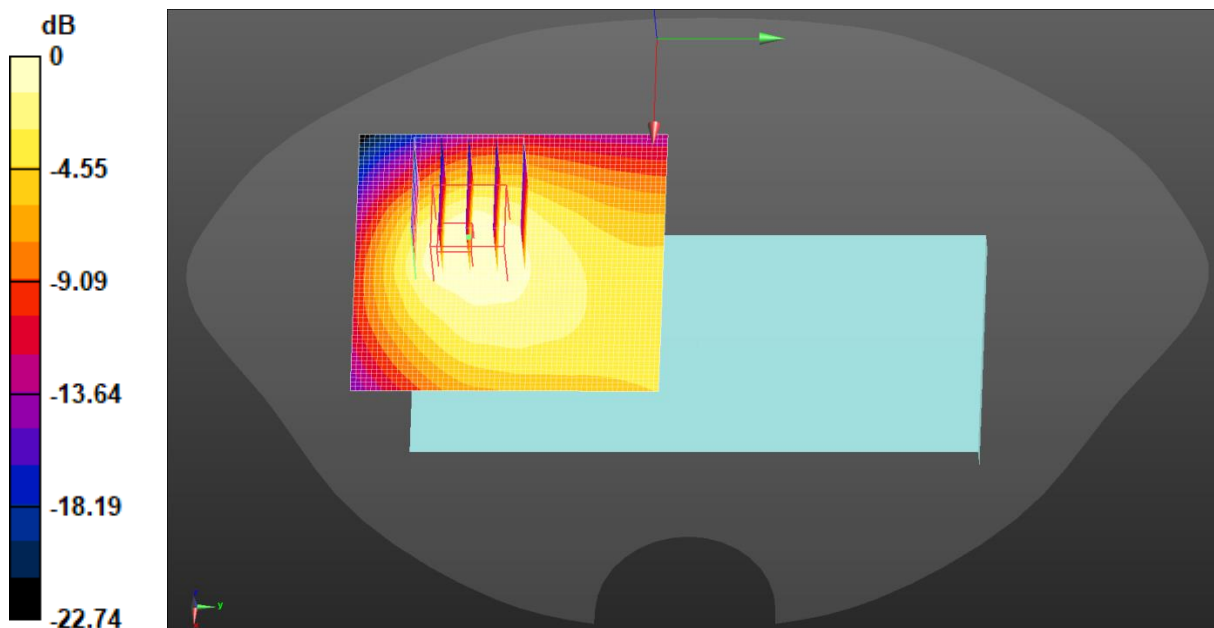
Peak SAR (extrapolated) = 0.641 W/kg

SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.215 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.499 W/kg



$0 \text{ dB} = 0.528 \text{ W/kg} = -2.78 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:1.99986

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1850.2 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GPRS 1900 4Slots Body Back/Low Channel/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.848 W/kg

GPRS 1900 4Slots Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.134 V/m; Power Drift = 0.02 dB

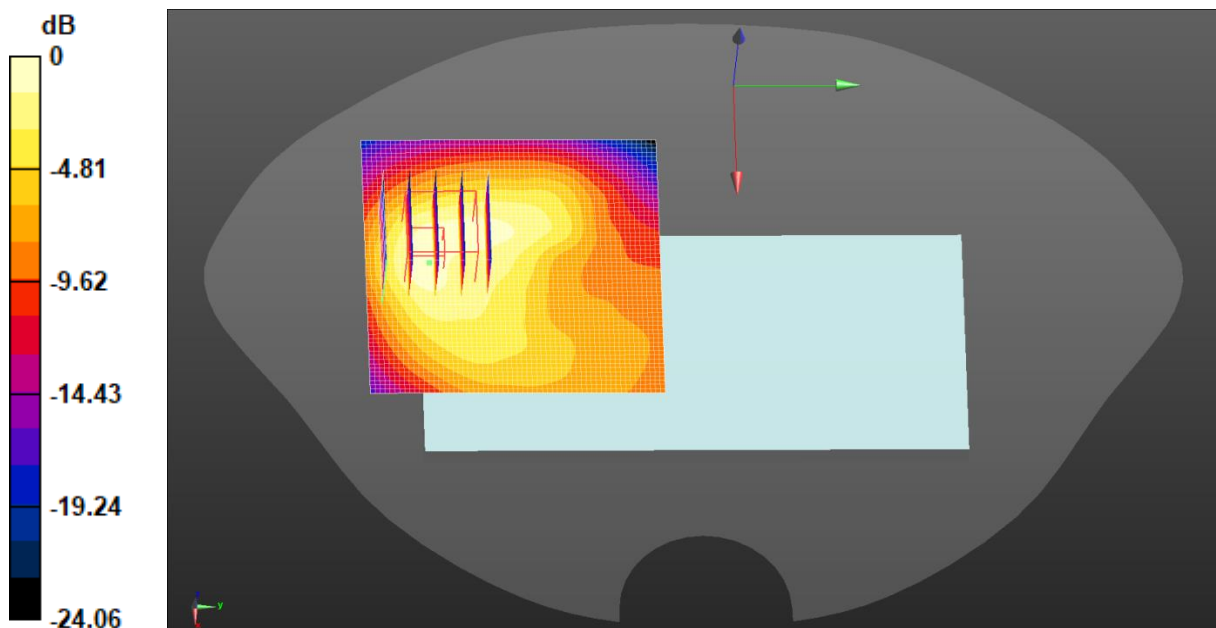
Peak SAR (extrapolated) = 0.966 W/kg

SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.281 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.760 W/kg



$0 \text{ dB} = 0.848 \text{ W/kg} = -0.72 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1852.4 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Body Back/Low Channel/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.210 W/kg

WCDMA 1900 Body Back/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.113 V/m; Power Drift = -0.06 dB

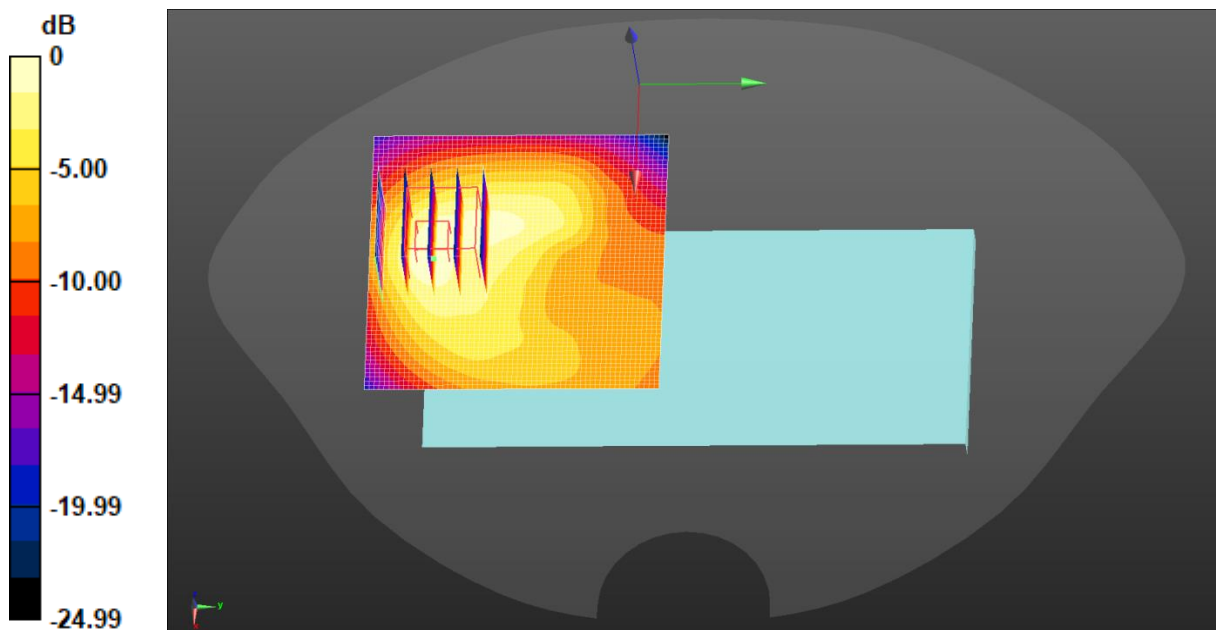
Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.072 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 0.195 W/kg



$0 \text{ dB} = 0.210 \text{ W/kg} = -6.77 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 39.314$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1712.4 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Body Back/Middle Channel/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.172 W/kg

WCDMA 1700 Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.557 V/m; Power Drift = -0.01 dB

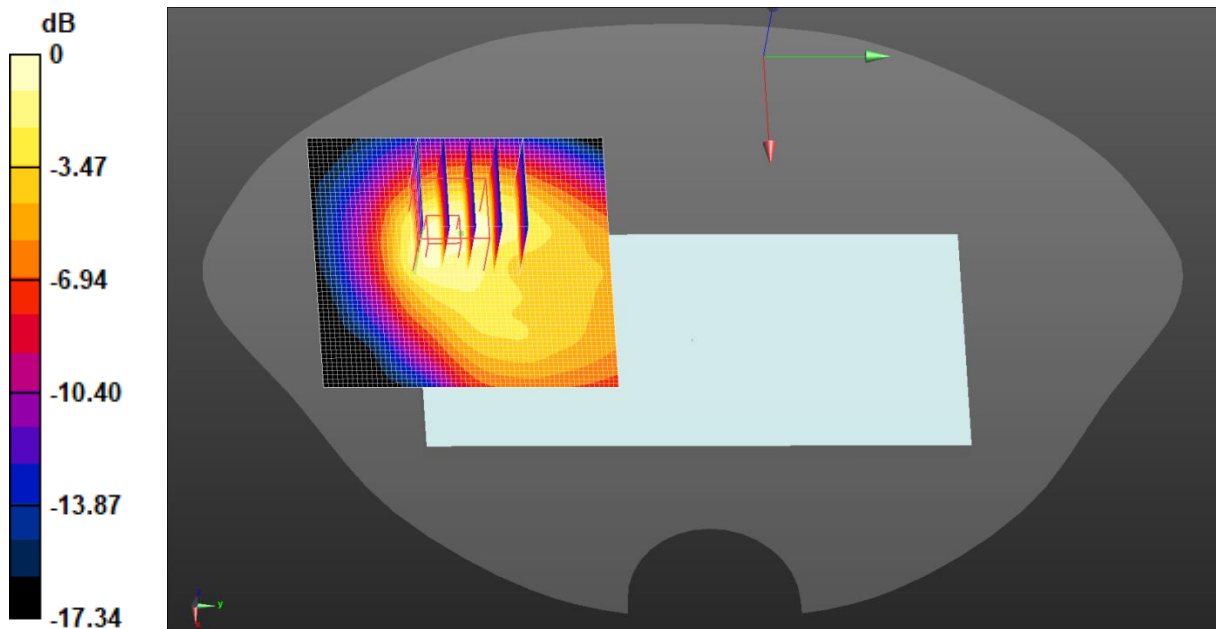
Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.066 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 0.178 W/kg



0 dB = 0.178 W/kg = -7.50 dBW/kg

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 40.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 846.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 850 Body Back/High Channel/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.312 W/kg

WCDMA 850 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.55 V/m; Power Drift = -0.03 dB

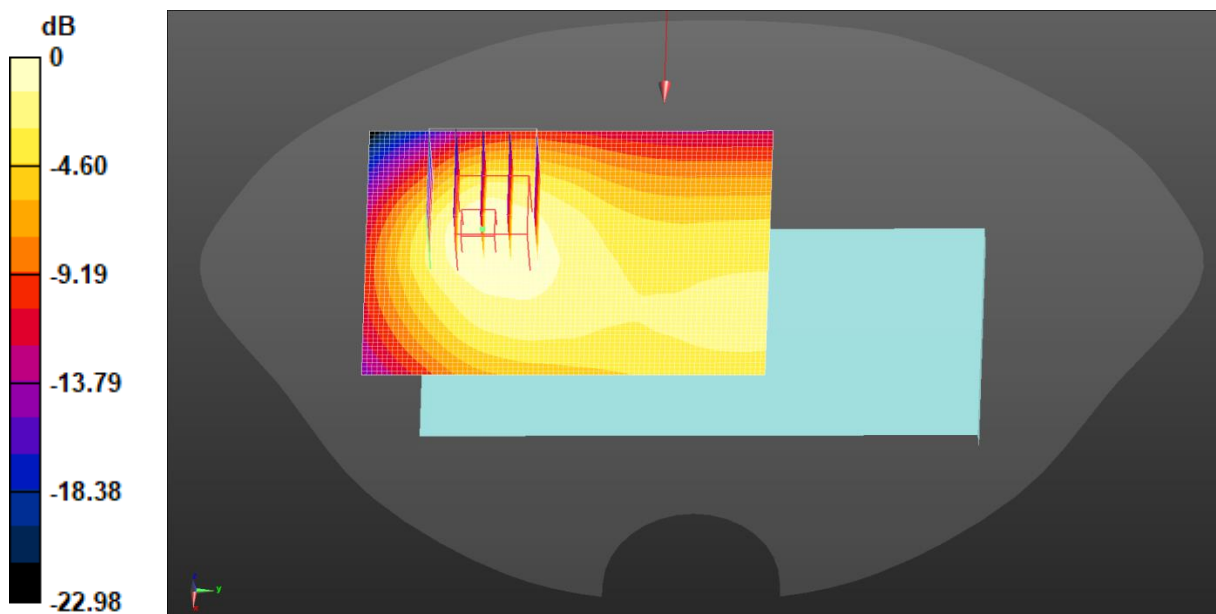
Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.135 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%

Maximum value of SAR (measured) = 0.280 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 39.208$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1860 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Body Back/Low Channel/Area Scan (61x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.227 W/kg

LTE Band 2 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.160 V/m; Power Drift = 0.03 dB

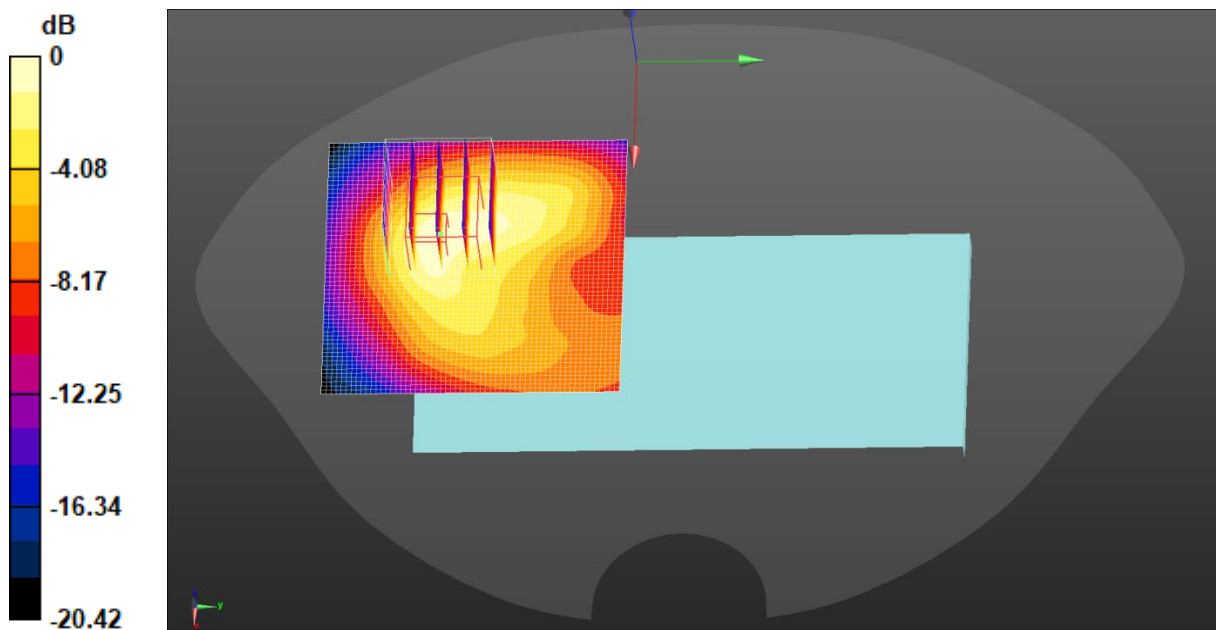
Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.075 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.198 W/kg



$0 \text{ dB} = 0.227 \text{ W/kg} = -6.44 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.16.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 829 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 829 \text{ MHz}$; $\sigma = 0.928 \text{ S/m}$; $\epsilon_r = 40.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.8, 9.8, 9.8) @ 829 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 5 1RB(10MHz) Body Front/Low Channel/Area Scan (61x81x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.308 W/kg

LTE Band 5 1RB(10MHz) Body Front/Low Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.75 V/m ; Power Drift = 0.09 dB

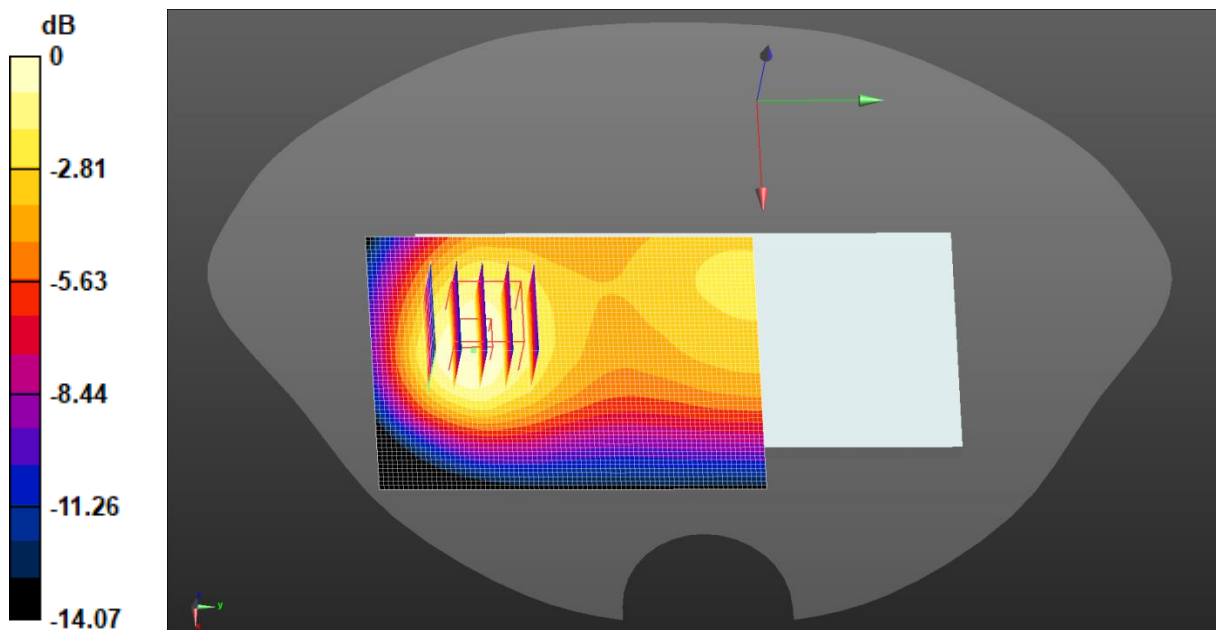
Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.216 W/kg ; SAR(10 g) = 0.139 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.5%

Maximum value of SAR (measured) = 0.299 W/kg



$0 \text{ dB} = 0.299 \text{ W/kg} = -5.24 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510 \text{ MHz}$; $\sigma = 1.918 \text{ S/m}$; $\epsilon_r = 38.332$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2510 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Area Scan (71x91x1):

Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.344 W/kg

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Zoom Scan (7x7x7)/Cube

0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.669 V/m; Power Drift = 0.12 dB

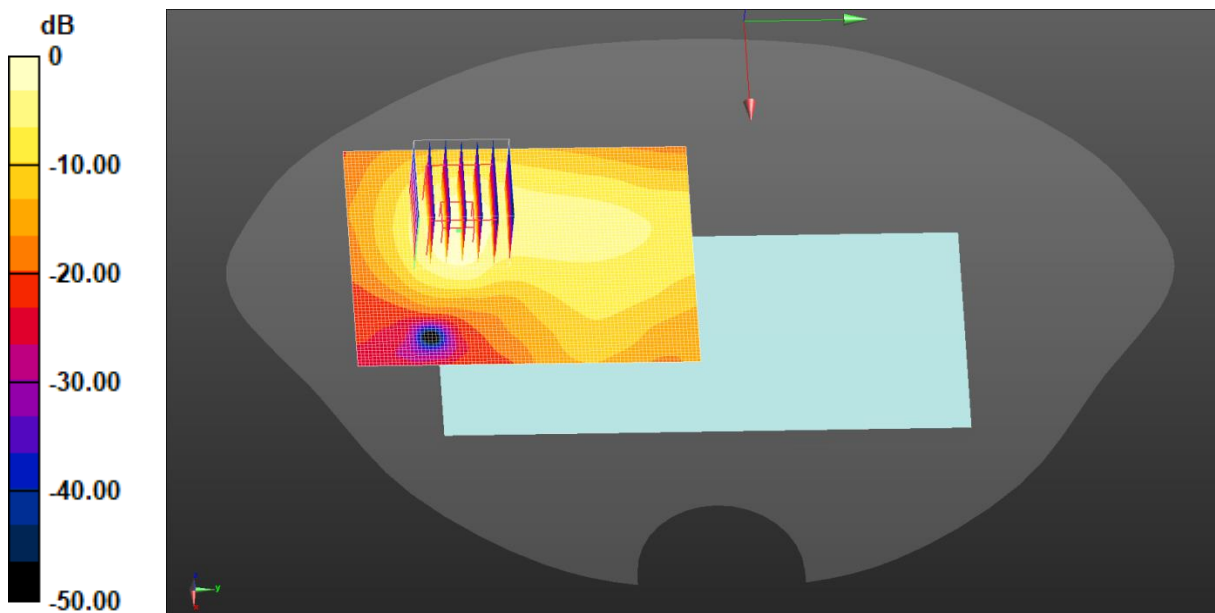
Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.089 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 0.335 W/kg



$0 \text{ dB} = 0.344 \text{ W/kg} = -4.63 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.14.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.905 \text{ S/m}$; $\epsilon_r = 41.37$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.2, 10.2, 10.2) @ 704 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 1RB(10MHz) Body Back/Low Channel/Area Scan (61x101x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.121 W/kg

LTE Band 12 1RB(10MHz) Body Back/Low Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.59 V/m; Power Drift = 0.02 dB

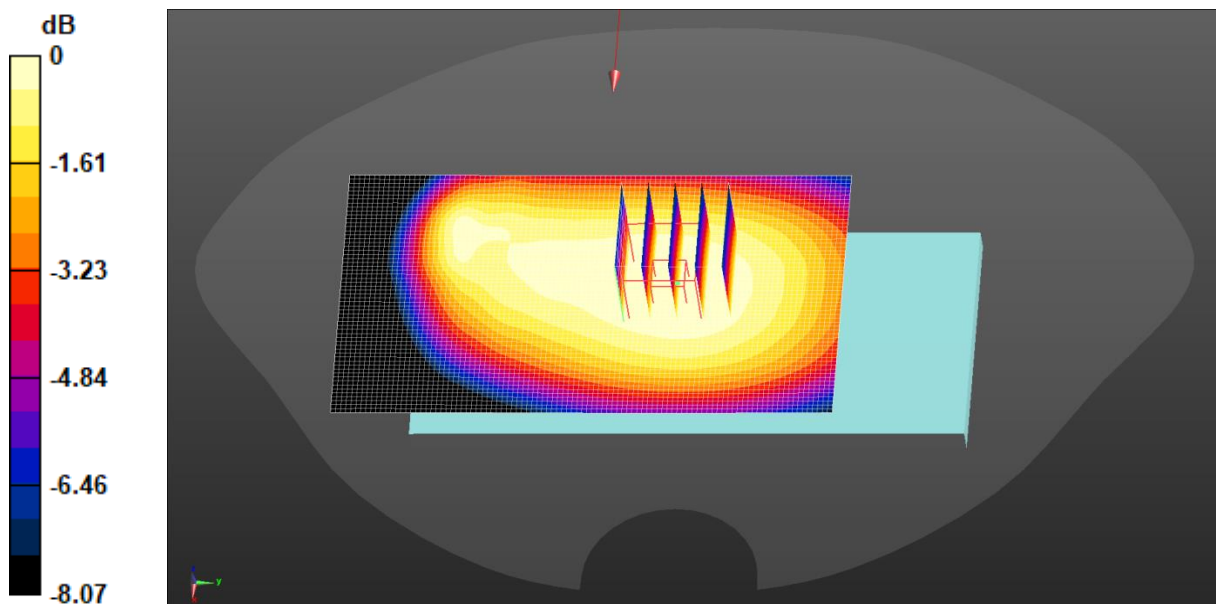
Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.073 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 71.3%

Maximum value of SAR (measured) = 0.120 W/kg



0 dB = 0.120 W/kg = -9.21 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 10MHz 1RB QPSK (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.724$ S/m; $\epsilon_r = 38.657$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.85, 7.85, 7.85) @ 2310 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 40 1RB(10MHz) Body Back/Middle Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.895 W/kg

LTE Band 40 1RB(10MHz) Body Back/Middle Channel/Zoom Scan**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.057 V/m; Power Drift = -0.03 dB

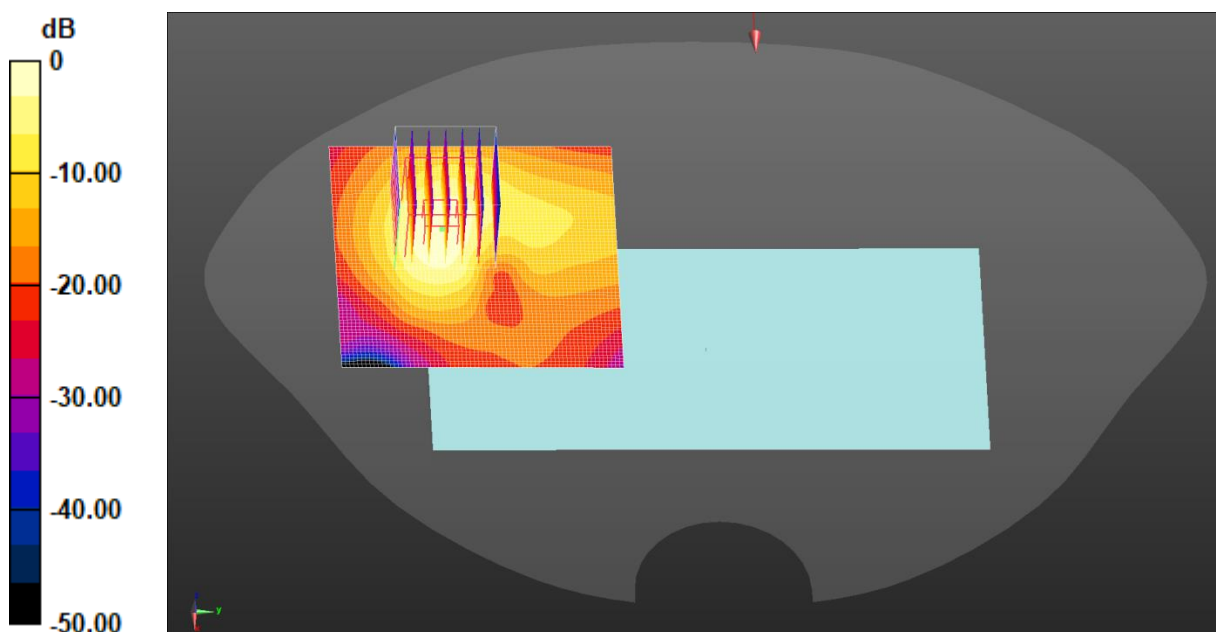
Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.234 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 0.894 W/kg



0 dB = 0.895 W/kg = -0.48 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 10MHz 1RB QPSK (0); Frequency: 2355 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2355$ MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 38.577$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

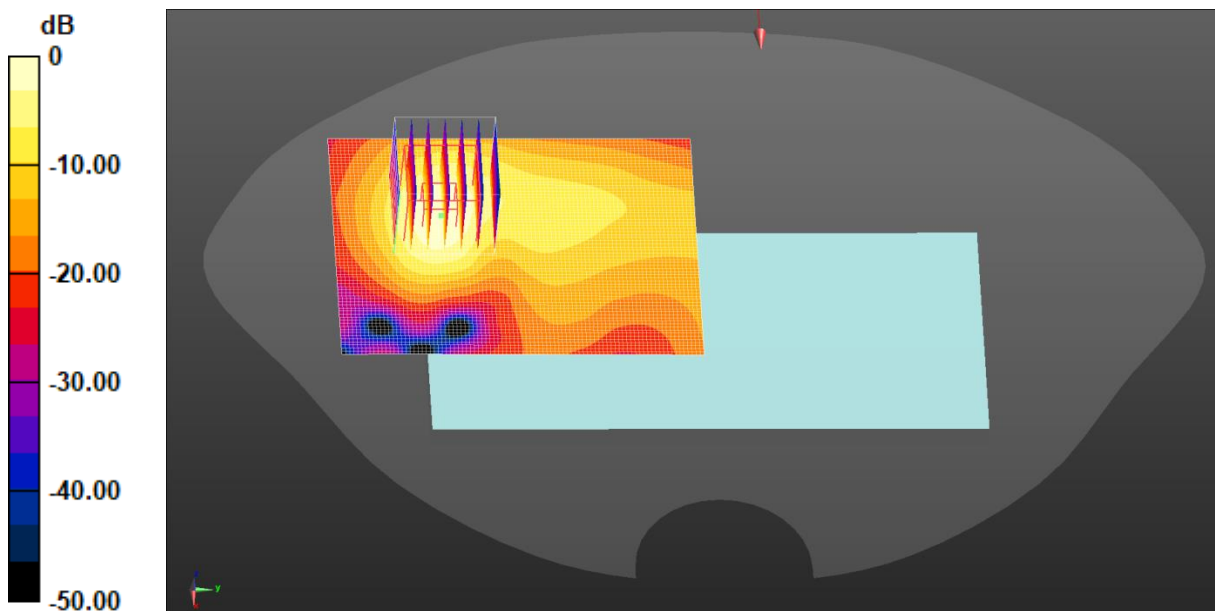
- Probe: EX3DV4 - SN3924; ConvF(7.85, 7.85, 7.85) @ 2355 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 40 1RB(10MHz) Body Back/Middle Channel/Area Scan (71x91x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.743 W/kg

LTE Band 40 1RB(10MHz) Body Back/Middle Channel/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 3.707 V/m; Power Drift = -0.03 dB
 Peak SAR (extrapolated) = 0.889 W/kg
SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.177 W/kg
 Smallest distance from peaks to all points 3 dB below = 7.6 mm
 Ratio of SAR at M2 to SAR at M1 = 47%
 Maximum value of SAR (measured) = 0.702 W/kg



0 dB = 0.743 W/kg = -1.29 dBW/kg

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956
 Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 38.223$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

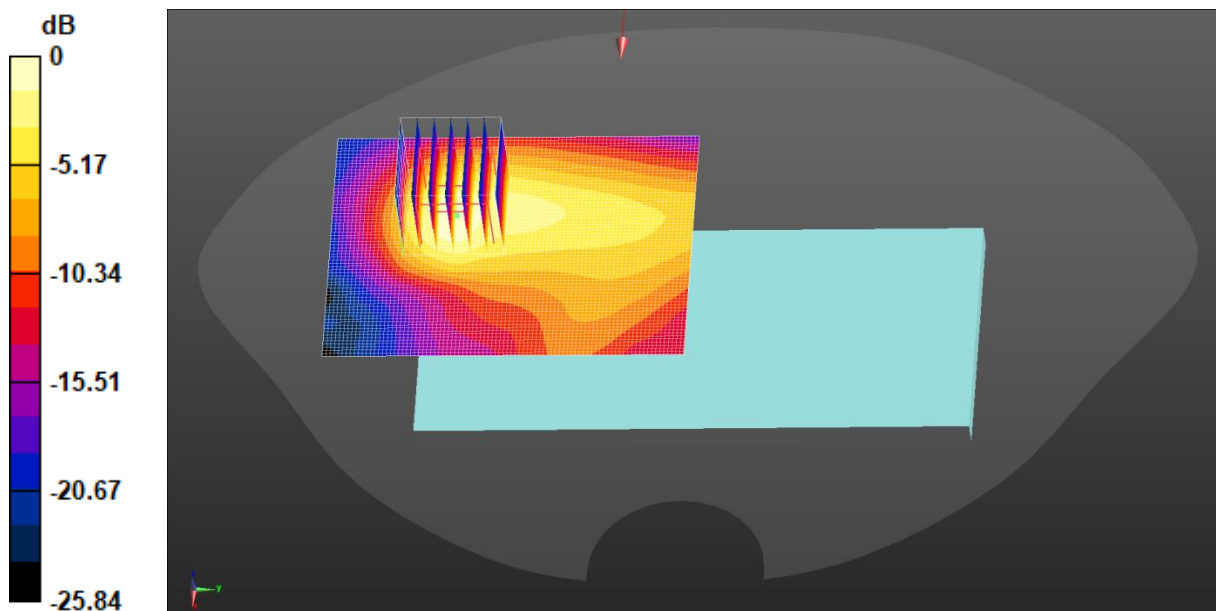
- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35) @ 2595 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Area Scan (71x91x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.411 W/kg

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 3.632 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 0.489 W/kg
SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.106 W/kg
 Smallest distance from peaks to all points 3 dB below = 10 mm
 Ratio of SAR at M2 to SAR at M1 = 45%
 Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.411 W/kg = -3.86 dBW/kg

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1770 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1770$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 39.255$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1770 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Body Back/High Channel/Area Scan (61x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.203 W/kg

LTE Band 66 1RB(20MHz) Body Back/High Channel/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.112 V/m; Power Drift = -0.07 dB

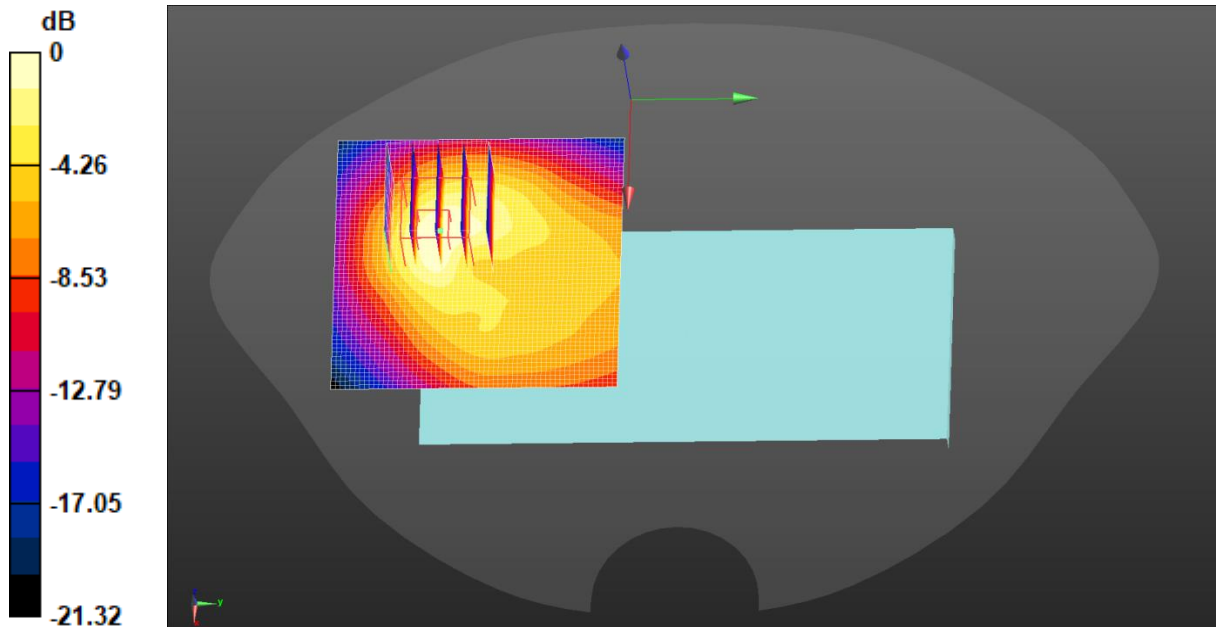
Peak SAR (extrapolated) = 0.232 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.069 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.188 W/kg



$0 \text{ dB} = 0.203 \text{ W/kg} = -6.93 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

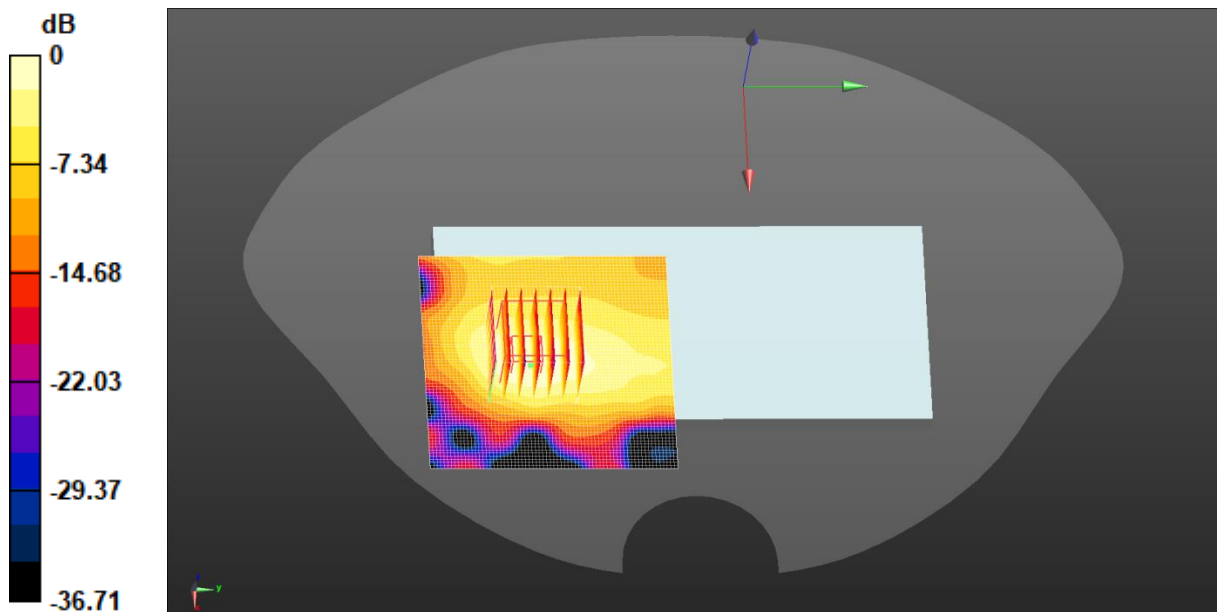
Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);
 Frequency: 2412 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 38.476$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2412 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2.4G WiFi Body Back/Low Channel/Area Scan (71x71x1): Interpolated grid:
 $dx=1.200$ mm, $dy=1.200$ mm
 Maximum value of SAR (interpolated) = 0.0640 W/kg

2.4G WiFi Body Back/Low Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 2.302 V/m; Power Drift = 0.05 dB
 Peak SAR (extrapolated) = 0.0800 W/kg
SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.018 W/kg
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
 Ratio of SAR at M2 to SAR at M1 = 43%
 Maximum value of SAR (measured) = 0.0612 W/kg



$0 \text{ dB} = 0.0612 \text{ W/kg} = -12.13 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.23.2024

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

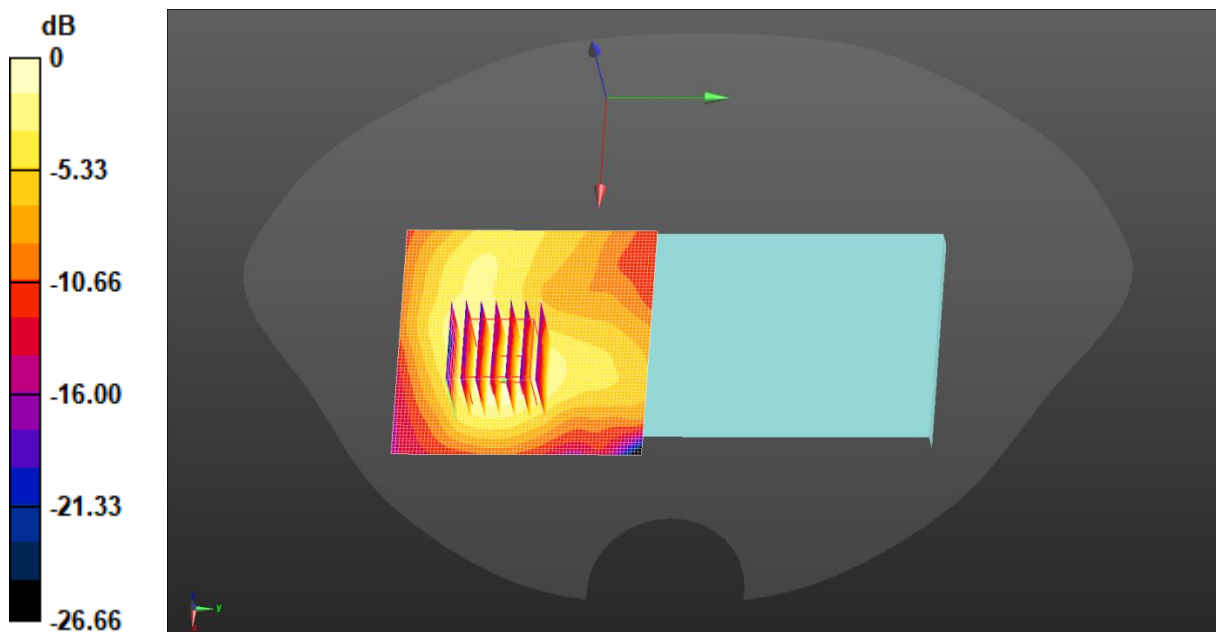
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.884 \text{ S/m}$; $\epsilon_r = 38.37$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Bluetooth Body Back/High Channel/Area Scan (71x71x1): Interpolated grid:
 $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.0410 W/kg

Bluetooth Body Back/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.357 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 0.0500 W/kg
SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.013 W/kg
 Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
 Ratio of SAR at M2 to SAR at M1 = 50.2%
 Maximum value of SAR (measured) = 0.0406 W/kg



0 dB = 0.0406 W/kg = -13.91 dBW/kg

Test Laboratory: JYTSZ

Date: 12.27.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.801$ S/m; $\epsilon_r = 35.194$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.41, 5.41, 5.41) @ 5200 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WiFi Body Back/Middle Channel/Area Scan (81x81x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.186 W/kg

5.2G WiFi Body Back/Middle Channel/Zoom Scan (7x7x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

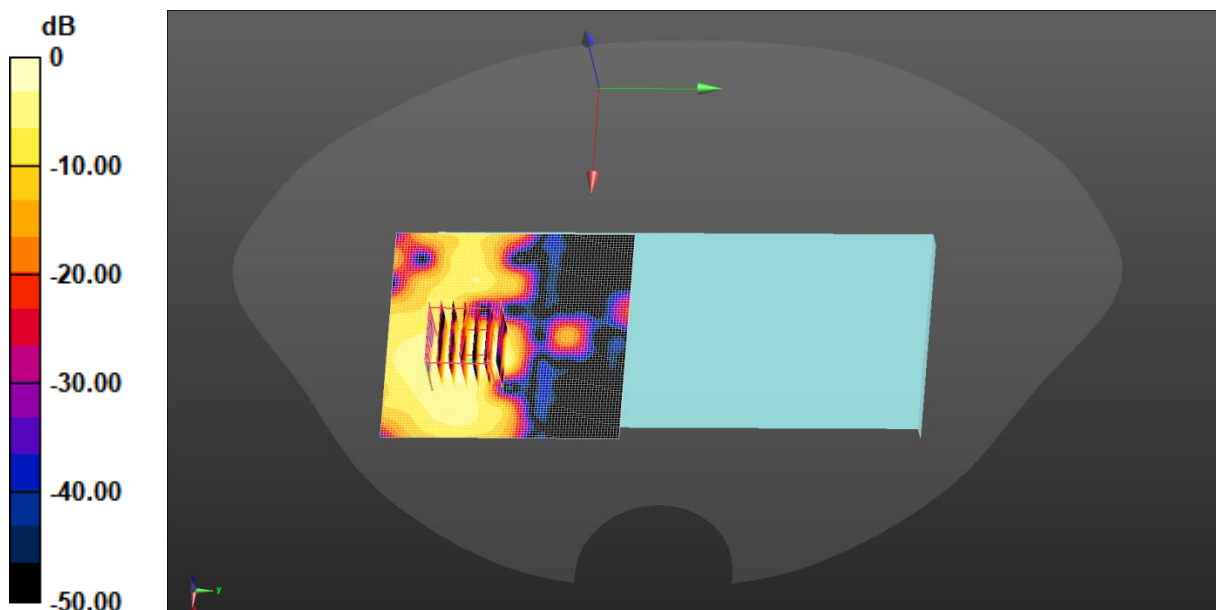
Peak SAR (extrapolated) = 0.689 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 0.179 W/kg



0 dB = 0.179 W/kg = -7.47 dBW/kg

Test Laboratory: JYTSZ

Date: 12.29.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825 \text{ MHz}$; $\sigma = 5.459 \text{ S/m}$; $\epsilon_r = 34.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.9, 4.9, 4.9) @ 5825 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WiFi Body Back/High Channel/Area Scan (71x81x1): Interpolated grid:

$dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.364 W/kg

5.8G WiFi Body Back/High Channel/Zoom Scan (7x7x12)/Cube 0: Measurement

grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

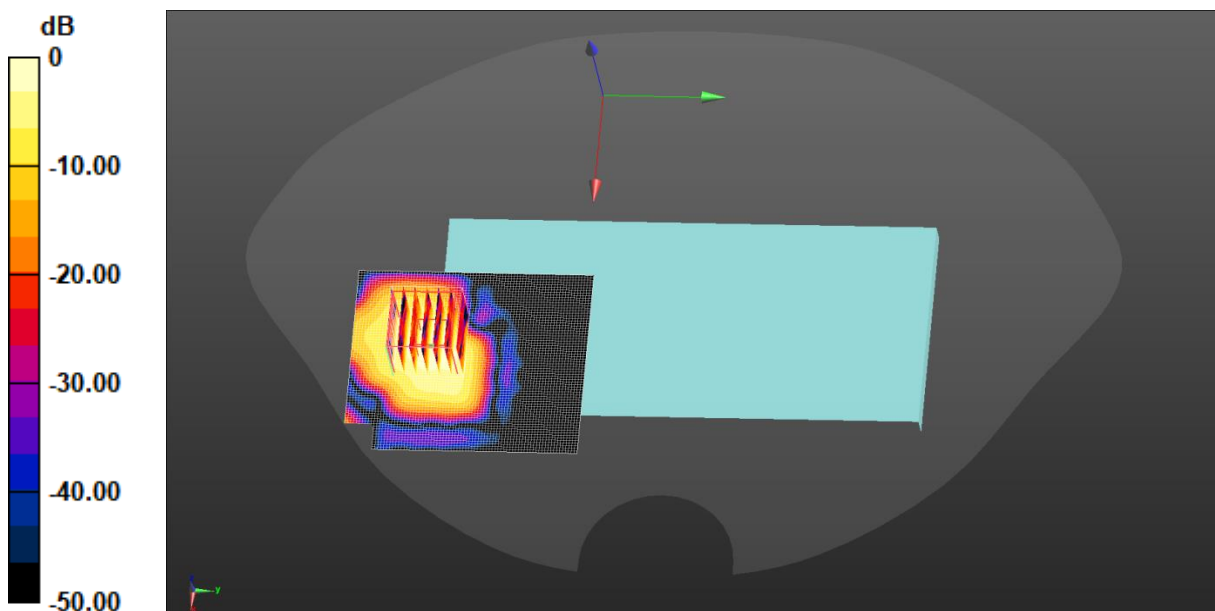
Peak SAR (extrapolated) = 0.587 W/kg

SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 0.310 W/kg



$0 \text{ dB} = 0.310 \text{ W/kg} = -5.09 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 1850.2 MHz; Duty Cycle: 1:1.99986

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1850.2 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GPRS 1900 4Slots Body Top/Low Channel/Area Scan (51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.09 W/kg

GPRS 1900 4Slots Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.77 V/m; Power Drift = 0.09 dB

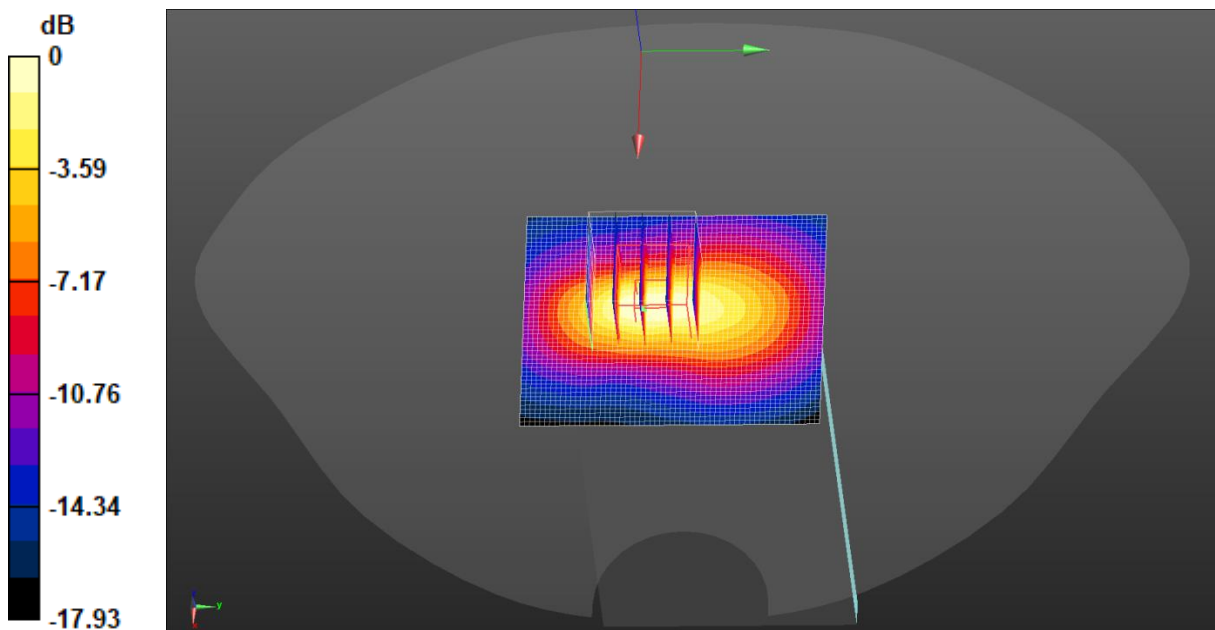
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.360 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 1.16 W/kg



$0 \text{ dB} = 1.09 \text{ W/kg} = 0.37 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1852.4 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Body Top/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.267 W/kg

WCDMA 1900 Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.63 V/m; Power Drift = 0.14 dB

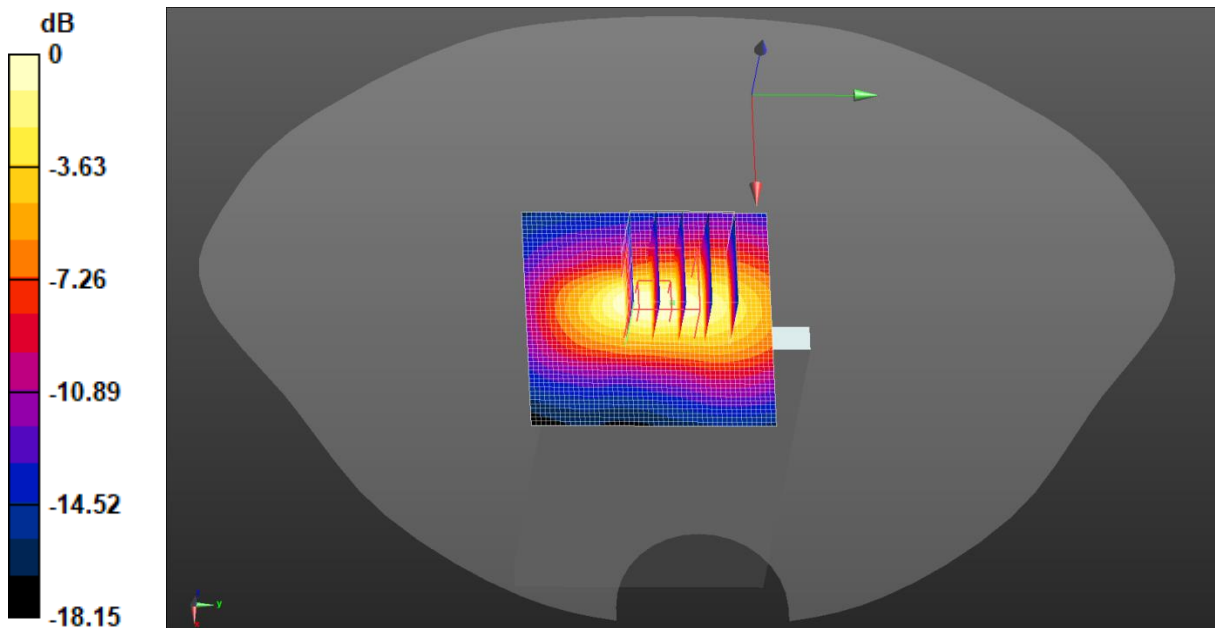
Peak SAR (extrapolated) = 0.379 W/kg

SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.289 W/kg



$0 \text{ dB} = 0.267 \text{ W/kg} = -5.73 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 39.314$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1712.4 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Body Top/Low Channel/Area Scan (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.300 W/kg

WCDMA 1700 Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.05 V/m; Power Drift = 0.16 dB

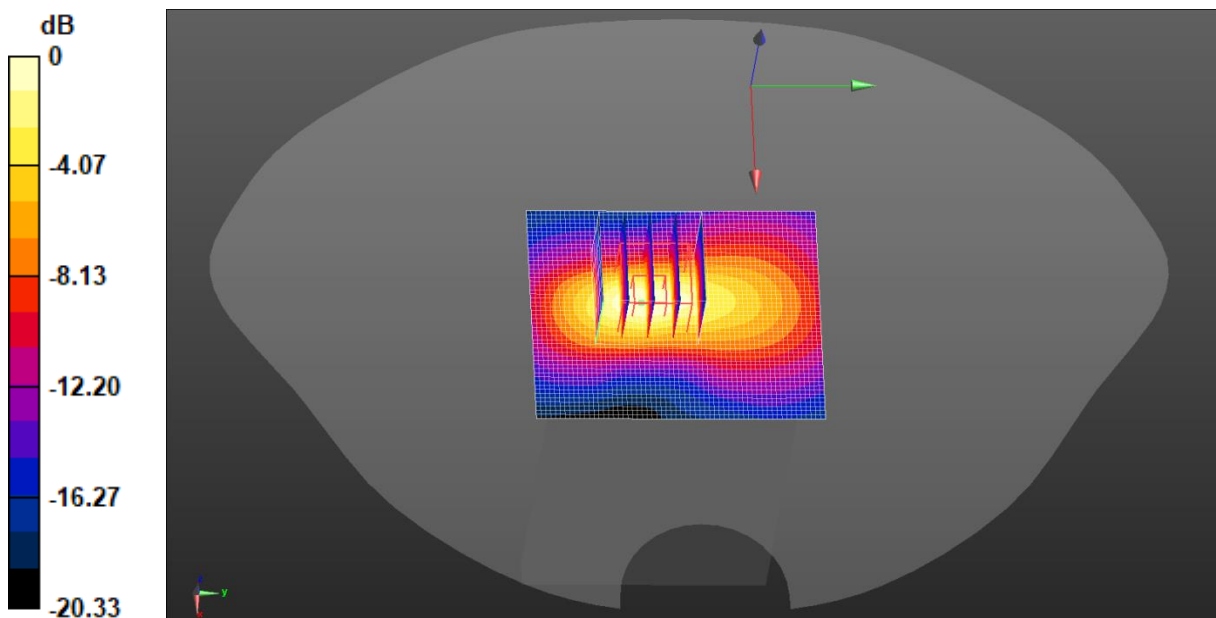
Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.308 W/kg



0 dB = 0.300 W/kg = -5.23 dBW/kg

Test Laboratory: JYTSZ

Date: 12.21.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.05, 8.05, 8.05) @ 1860 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.294 W/kg

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.69 V/m; Power Drift = 0.10 dB

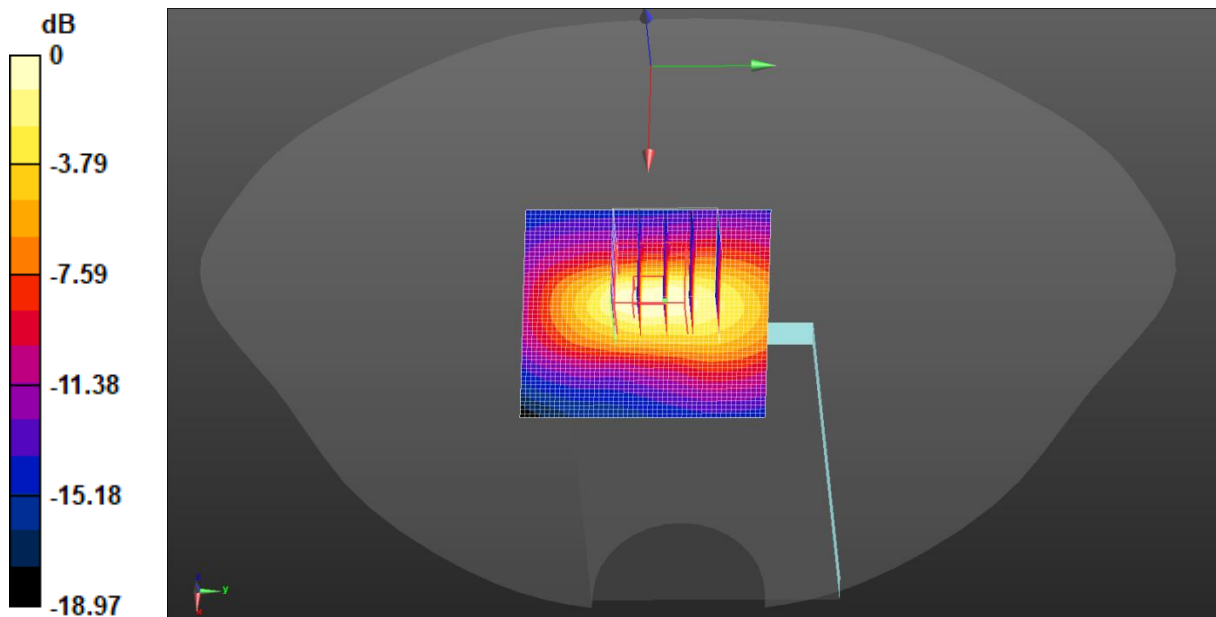
Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.105 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.326 W/kg



$0 \text{ dB} = 0.294 \text{ W/kg} = -5.31 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 38.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2510 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Body Top/Low Channel/Area Scan (61x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.658 W/kg

LTE Band 7 1RB(20MHz) Body Top/Low Channel/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.003 V/m; Power Drift = 0.03 dB

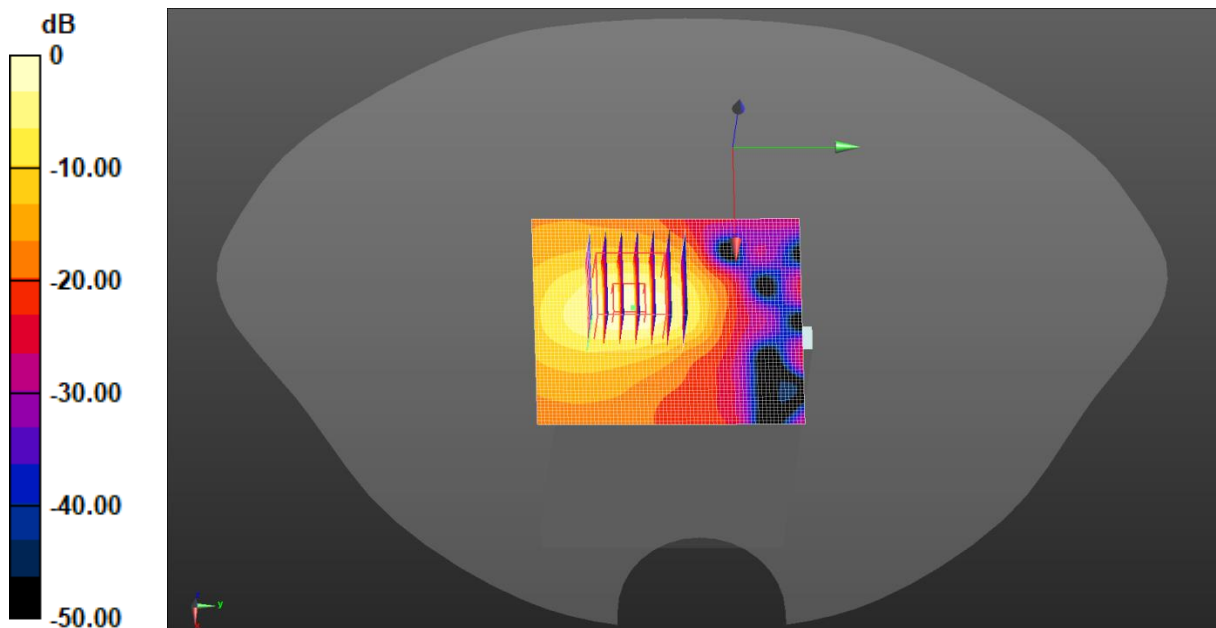
Peak SAR (extrapolated) = 0.752 W/kg

SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.146 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 0.589 W/kg



0 dB = 0.658 W/kg = -1.82 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 10MHz 1RB QPSK (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.724$ S/m; $\epsilon_r = 38.657$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.85, 7.85, 7.85) @ 2310 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 40 1RB(10MHz) Body Top(2310 Mhz)/Middle Channel/Area Scan

(61x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

LTE Band 40 1RB(10MHz) Body Top(2310 Mhz)/Middle Channel/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.64 V/m; Power Drift = 0.07 dB

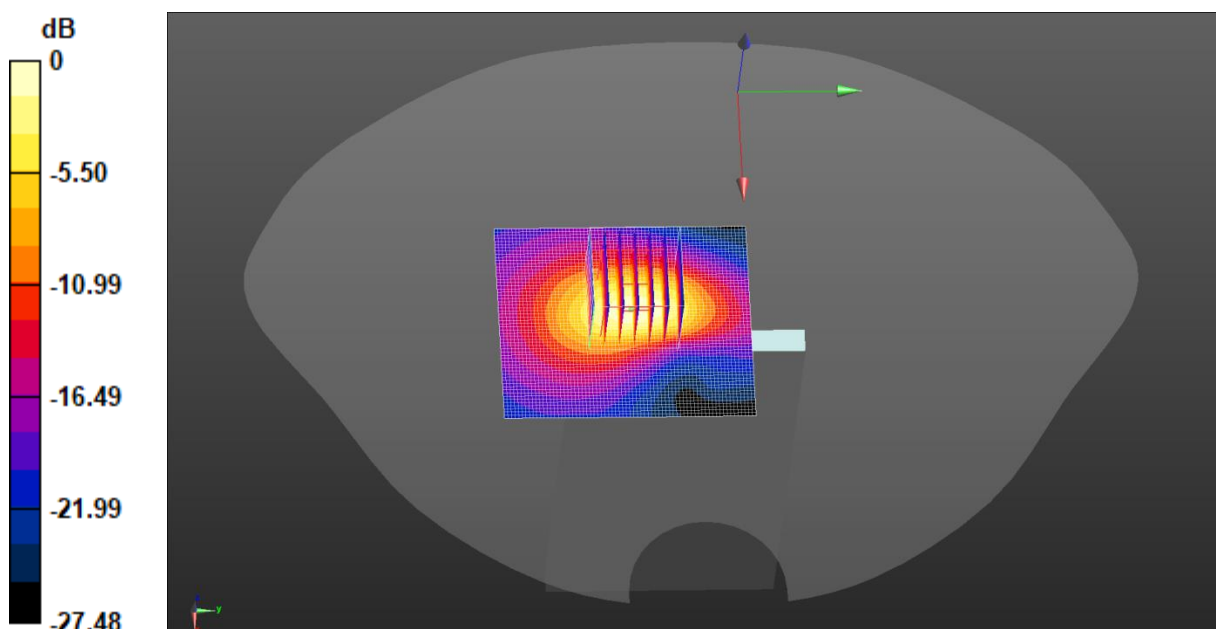
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.283 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

Test Laboratory: JYTSZ

Date: 12.23.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 10MHz 1RB QPSK (0); Frequency: 2355 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2355$ MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 38.577$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.85, 7.85, 7.85) @ 2355 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 40 1RB(10MHz) Body Top(2355 Mhz)/Middle Channel/Area Scan (61x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.894 W/kg

LTE Band 40 1RB(10MHz) Body Top(2355 Mhz)/Middle Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.994 V/m; Power Drift = 0.07 dB

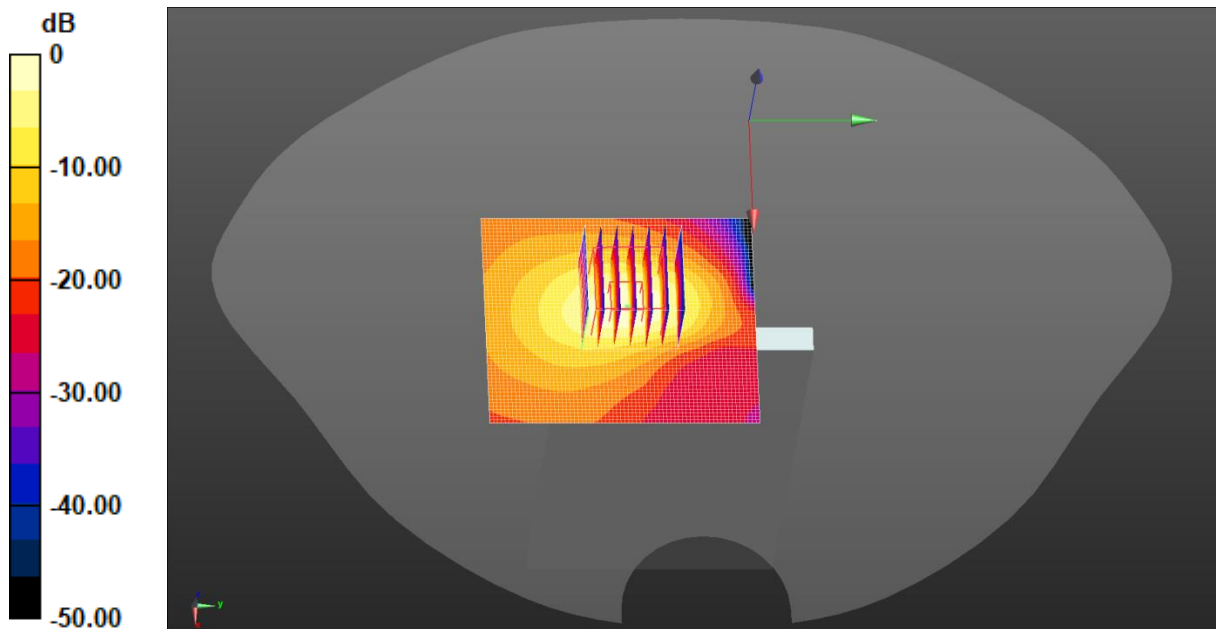
Peak SAR (extrapolated) = 0.990 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 0.788 W/kg



$0 \text{ dB} = 0.894 \text{ W/kg} = -0.49 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.25.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956
 Medium parameters used (interpolated): $f = 2595$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 38.223$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

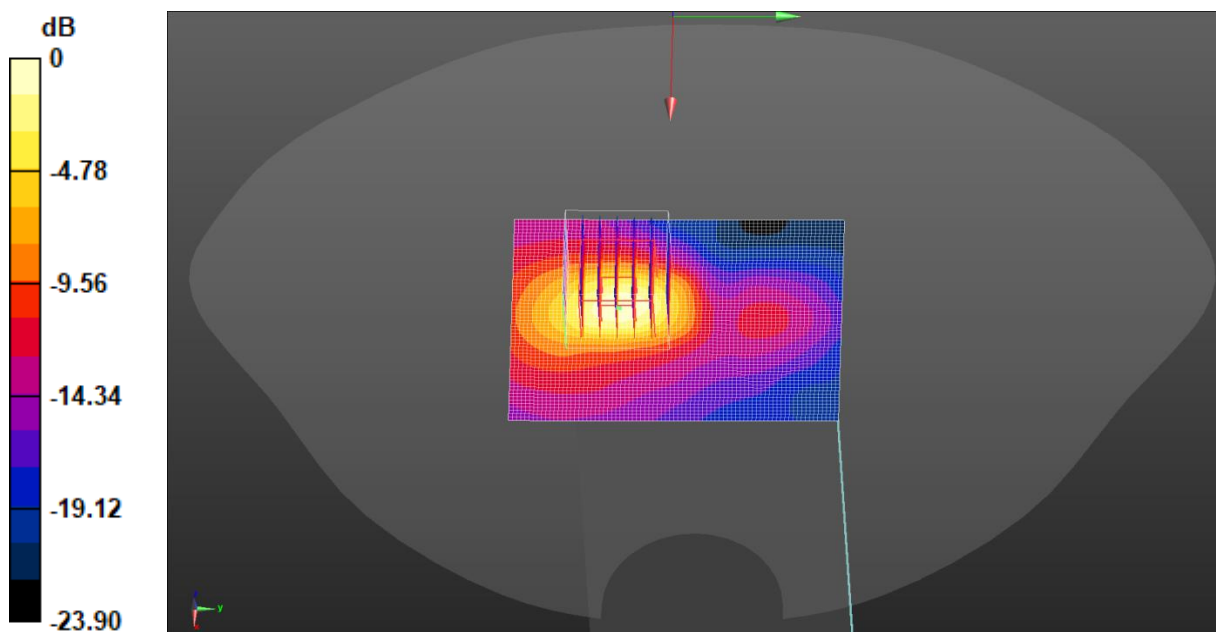
- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35) @ 2595 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 41 1RB(20MHz) Body Top/Middle Channel/Area Scan (61x81x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.604 W/kg

LTE Band 41 1RB(20MHz) Body Top/Middle Channel/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 5.122 V/m; Power Drift = -0.05 dB
 Peak SAR (extrapolated) = 0.691 W/kg
SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.127 W/kg
 Smallest distance from peaks to all points 3 dB below = 8 mm
 Ratio of SAR at M2 to SAR at M1 = 45.3%
 Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.604 W/kg = -2.19 dBW/kg

Test Laboratory: JYTSZ

Date: 12.18.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1770 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1770 \text{ MHz}$; $\sigma = 1.419 \text{ S/m}$; $\epsilon_r = 39.255$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1770 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Body Top/High Channel/Area Scan (51x51x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.324 W/kg

LTE Band 66 1RB(20MHz) Body Top/High Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.93 V/m; Power Drift = 0.14 dB

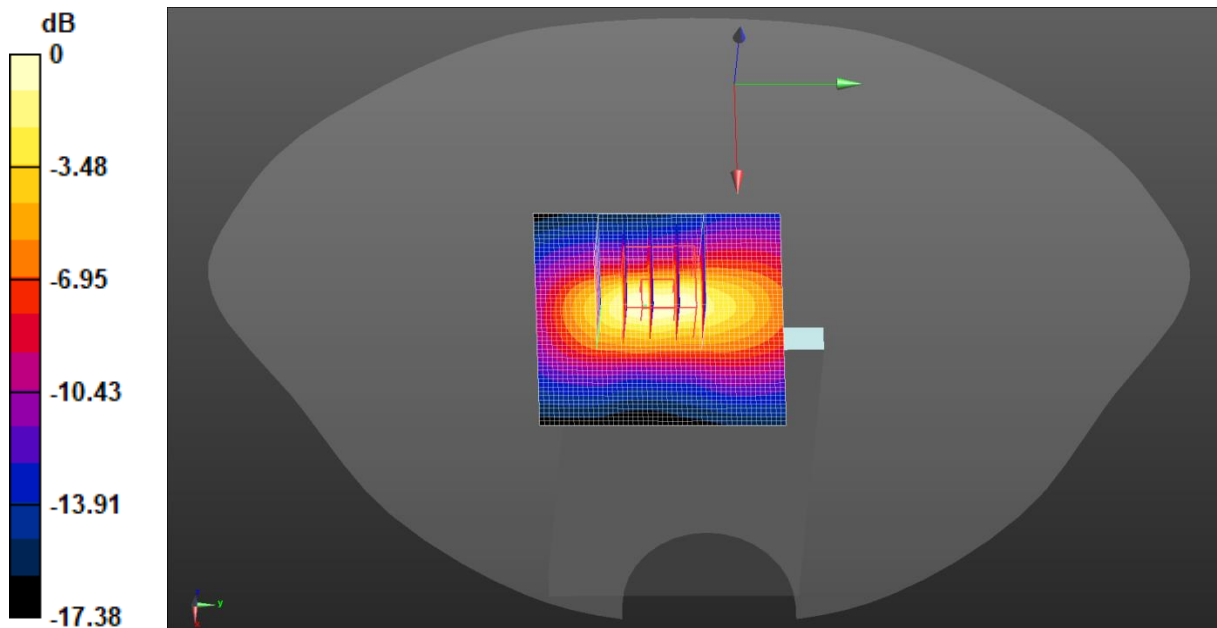
Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.110 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 0.357 W/kg



$0 \text{ dB} = 0.324 \text{ W/kg} = -4.90 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 12.27.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.801 \text{ S/m}$; $\epsilon_r = 35.194$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.41, 5.41, 5.41) @ 5200 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.20233
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WiFi Body Top/Middle Channel/Area Scan (71x81x1): Interpolated grid:

$dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.260 W/kg

5.2G WiFi Body Top/Middle Channel/Zoom Scan (7x7x12)/Cube 0:

Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.623 V/m; Power Drift = 0.02 dB

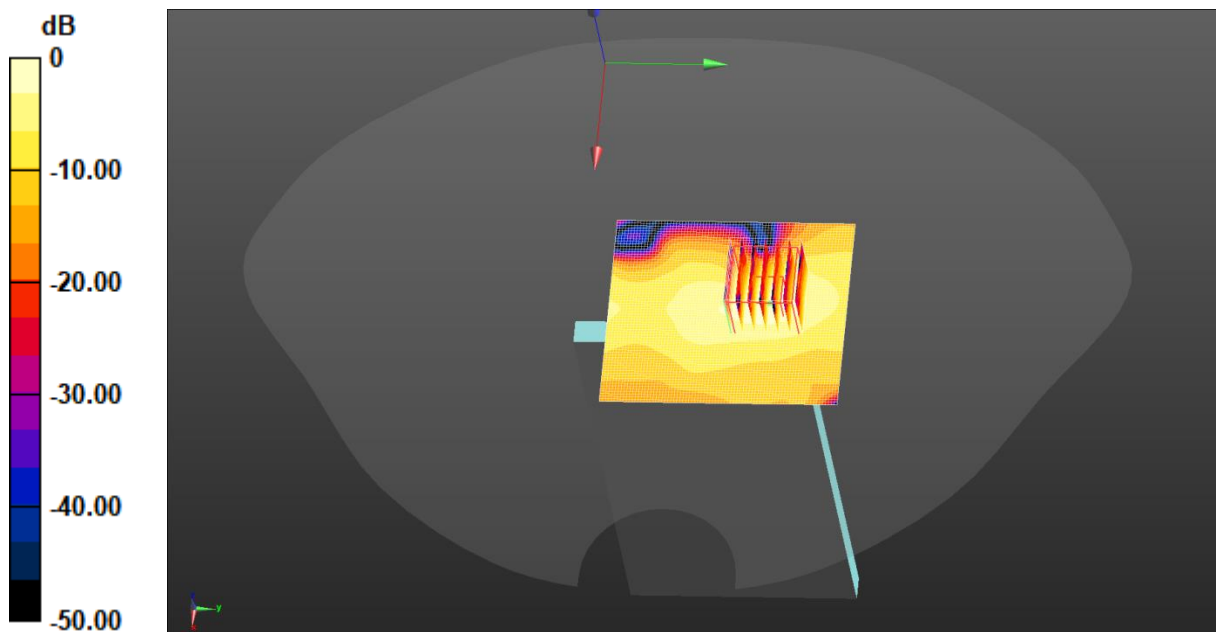
Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.035 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 0.265 W/kg



0 dB = 0.265 W/kg = -5.77 dBW/kg

Test Laboratory: JYTSZ

Date: 12.29.2023

DUT: Mobile Phone; Type: LI7; Serial: SZR012300631-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825 \text{ MHz}$; $\sigma = 5.459 \text{ S/m}$; $\epsilon_r = 34.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.9, 4.9, 4.9) @ 5825 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 05.17.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WiFi Body Top/High Channel/Area Scan (71x81x1): Interpolated grid:

$dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.520 W/kg

5.8G WiFi Body Top/High Channel/Zoom Scan (7x7x12)/Cube 0: Measurement

grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.5970 V/m; Power Drift = 0.07 dB

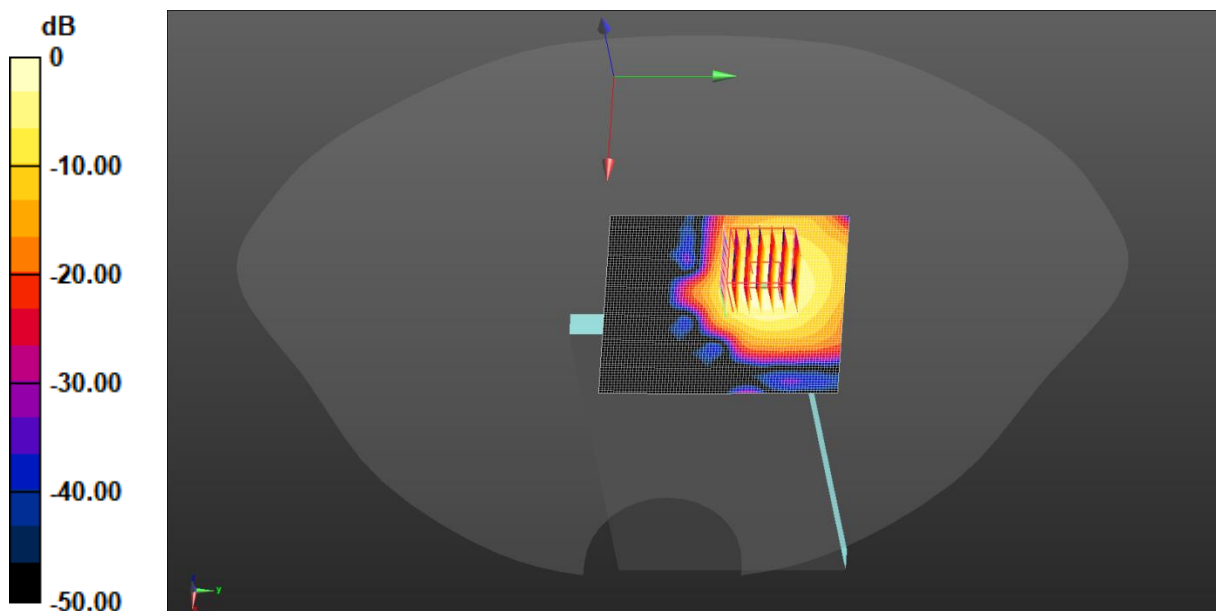
Peak SAR (extrapolated) = 0.943 W/kg

SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.491 W/kg



0 dB = 0.491 W/kg = -3.09 dBW/kg

-----End of Report-----