



FCC SAR REPORT

Applicant: INFINIX MOBILITY 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.: X6710

Trade mark Infinix

FCC ID: 2AIZN-X6710

Applicable standards: FCC 47 CFR Part 2.1093

Date of Test: 12 Jan., 2023 ~ 27 Jan., 2023

Test Result: Maximum Reported 1-g SAR (W/kg)
Head: 1.190 Body: 0.614 Hotspot: 0.614

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	15 Mar., 2023	Original

Tested by:*Vietta. Zhang***Date:**

15 Mar., 2023

Test Engineer**Reviewed by:***Janet. Wei***Date:**

15 Mar., 2023

Project Engineer

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4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:
 <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	1.184	PCE	1.190	
	PCS 1900	0.217			
	WCDMA Band II	0.279			
	WCDMA Band IV	0.222			
	WCDMA Band V	0.580			
	LTE Band 2	0.283			
	LTE Band 5	0.465			
	LTE Band 7	0.296			
	LTE Band 12 & Band 17	0.301			
	LTE Band 41 & Band 38	0.472			
	LTE Band 66 & Band 4	0.405			
	NR n5	0.667			
	NR n7	0.184			
	NR n12	0.248			
	NR n41 &n38	0.519			
	NR n66 &n4	1.190			
	NR n77 (3450MHz~3550MHz) &n78 (3450MHz~3550MHz)	0.375			
	NRn77 (3700MHz~3980MHz) &n78 (3700MHz~3800MHz)	0.594			
	WLAN 2.4 GHz	0.187	DTS		
	Bluetooth	0.006	DSS		
	WLAN 5.2 GHz	0.198	NII		
	WLAN 5.8 GHz	0.107			
Body (10 mm Gap)	GSM 850	0.397	PCE	0.614	
	PCS 1900	0.151			
	WCDMA Band II	0.060			
	WCDMA Band IV	0.082			
	WCDMA Band V	0.164			
	LTE Band 2	0.071			
	LTE Band 5	0.123			
	LTE Band 7	0.209			
	LTE Band 12 & Band 17	0.104			
	LTE Band 41 & Band 38	0.368			
	LTE Band 66 & Band 4	0.082			
	NR n5	0.180			
	NR n7	0.541			
	NR n12	0.087			
	NR n41	0.152			

	&n38			
	NR n66 &n4	0.254		
	NR n77 (3450MHz~3550MHz) &n78 (3450MHz~3550MHz)	0.154		
	NRn77 (3700MHz~3980MHz) &n78 (3700MHz~3800MHz)	0.614		
	WLAN 2.4 GHz	0.053	DTS	
	Bluetooth	0.008	DSS	
	WLAN 5.2 GHz	0.042		NII
	WLAN 5.8 GHz	0.046		
Hotspot (10 mm Gap)	GSM 850	0.406	PCE	0.614
	PCS 1900	0.298		
	WCDMA Band II	0.102		
	WCDMA Band IV	0.141		
	WCDMA Band V	0.177		
	LTE Band 2	0.071		
	LTE Band 5	0.123		
	LTE Band 7	0.209		
	LTE Band 12 & Band 17	0.104		
	LTE Band 41 & Band 38	0.368		
	LTE Band 66 & Band 4	0.082		
	NR n5	0.182		
	NR n7	0.541		
	NR n12	0.087		
	NR n41 &n38	0.152		
	NR n66 &n4	0.381		
	NR n77 (3450MHz~3550MHz) &n78 (3450MHz~3550MHz)	0.154		
	NRn77 (3700MHz~3980MHz) &n78 (3700MHz~3800MHz)	0.614		
	WLAN 2.4 GHz	0.053	DTS	
	Bluetooth	0.008	DSS	
	WLAN 5.2 GHz	0.042		NII
	WLAN 5.8 GHz	0.046		

<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	WWLN	1.184	PCE	1.405
	WLAN 2.4 GHz ANT1	0.085	DTS	
	WLAN 2.4 GHz ANT2	0.136	DTS	
	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 IEEE 1528-2013.
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.
6. For NR n38 is full covered by NR n41, so only NR n41 was tested.
7. For NR n78 is full covered by NR n77, so only NR n77 was tested.

5 General Information

5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address of Applicant:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY 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.:	X6710		
Category of device	Portable device		
Operation Frequency:	GSM :	GSM850: 824MHz~849MHz	PCS 1900: 1850MHz~1910MHz
	WCDMA :	Band II: 1850MHz~1910MHz	Band V: 824MHz~849MHz
		Band IV: 1710MHz~1755MHz	
	LTE :	Band 2: 1850MHz~1910MHz	Band 4: 1710MHz~1755MHz
		Band 5: 824MHz~849MHz	Band 7: 2500MHz~2570MHz
		Band 12: 699-716MHz	Band 17: 704MHz~716MHz
		Band 38: 2570MHz~2620MHz	Band 41: 2496MHz~2690MHz
		Band 66: 1710MHz~1780MHz	
	5G NR	n5: 824MHz~849MHz	n7: 2500MHz~2570MHz
		n12: 699-716MHz	n38: 2570MHz~2620MHz
		n41: 2496MHz~2690MHz	n66: 1710MHz~1780MHz
		n77: 3450MHz~3550MHz	n77: 3700MHz~3980MHz
		n78: 3450MHz~3550MHz	n78: 3700MHz~3800MHz
	Wi-Fi:	2412MHz~2462MHz	5150MHz-5250MHz
		5725MHz-5850MHz	
	Bluetooth: 2402 MHz ~ 2480 MHz		
	NFC: 13.56MHz		
	WPT: 112.45kHz		
Modulation technology:	GSM:	<input checked="" type="checkbox"/> Voice(GMSK)	<input checked="" type="checkbox"/> GPRS(GMSK)
	WCDMA:	<input checked="" type="checkbox"/> RMC(QPSK)	<input checked="" type="checkbox"/> HSUPA(QPSK)
	LTE:	<input checked="" type="checkbox"/> QPSK	<input checked="" type="checkbox"/> 16QAM
	5G NR:	<input checked="" type="checkbox"/> CP-OFDM(QPSK,16QAM,64QAM,256QAM)	
		<input checked="" type="checkbox"/> DFT-s-OFDM(π/2-BPSK,QPSK,16QAM,64QAM,256QAM)	
	Wi-Fi:	<input checked="" type="checkbox"/> 802.11b(DSSS)	<input checked="" type="checkbox"/> 802.11a/g/n/ac/ax (OFDM)
	Bluetooth:	<input checked="" type="checkbox"/> BDR(GFSK)	<input checked="" type="checkbox"/> EDR(π/4-DQPSK, 8DPSK)
	NFC:	ASK	
	WPT:	ASK	

	SA: NR n5, n7,n12, n38, n41,n66, n77, n78 NSA(EN-DC): DC_2A_n78A; DC_5A_n7A; DC_5A_n41A; DC_41A_n41A DC_4A_n78A; DC_5A_n78A; DC_7A_n78A; DC_38A_n78A; DC_41A_n78A DC_66A_n78A; DC_5A_n77A; DC_7A_n77A; DC_41A_n77A; DC_66A_n77A	
Antenna Type:	Internal Antenna	
Antenna Gain:	<p>ANT 7: GSM 850: -1.6dBi; PCS 1900: -0.6dBi WCDMA Band II: -0.6dBi;; WCDMA Band V: -1.6dBi WCDMA Band IV: -0.8dBi LTE Band 2: -0.6dBi; LTE Band 4: -0.8dBi LTE Band 5: -1.6dBi; LTE Band 7: -0.5dBi LTE Band 12: -1.8dBi; LTE Band 17: -1.8dBi LTE Band 38: -0.5dBi; LTE Band 41: -0.5dBi LTE Band 66: -0.8dBi</p> <p>n5: -1.6dBi; n7: -0.5dBi; n12: -1.8dBi; n38: -0.5dBi; n41: -0.5dBi; n66: -0.8dBi;</p> <p>ANT 5: LTE Band 7: -6.5dBi; LTE Band 41: -6.5dBi</p> <p>ANT 3: n77: -1.95dBi; n78: -1.95dBi</p> <p>ANT 1: Bluetooth: -2.65dBi; 2.4G Wi-Fi: -2.65dBi; 5G Wi-Fi: 0.25dBi</p> <p>ANT 2: 2.4G Wi-Fi: -1.22dBi; 5G Wi-Fi: -0.44dBi</p>	
(E)GPRS Class:	(E)GPRS Class: 12	
Dimensions (L*W*H):	163 mm (L)× 76 mm (W)× 8 mm (H)	
Accessories information:	<p>Adapter: Model:U680XSA Input: AC100-240V, 50/60Hz, 2.0A Output: DC 5.0V, 2.0A or 11.0V, 6.2A or 4.0-21.0V, 3.25A 68.0W MAX</p>	<p>Battery: Rechargeable Li-ion polymer Battery 3.87V/4900mAh</p> <p>Headset: Support headset</p>

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	PCS 1900
GSM (Voice)	33.14	30.04
GPRS (1 TX Slot)	33.14	30.04
GPRS (2 TX Slots)	32.29	29.25
GPRS (3 TX Slots)	30.42	27.33
GPRS (4 TX Slots)	29.36	26.26
EGPRS (1 TX Slot)	27.79	25.47
EGPRS (2 TX Slots)	26.62	24.36
EGPRS (3 TX Slots)	24.45	22.06
EGPRS (4 TX Slots)	23.34	20.86

Mode	Average Power (dBm)		
	WCDMA Band II	WCDMA Band IV	WCDMA Band V
AMR 12.2 kbps	22.71	22.47	23.04
RMC 12.2 kbps	22.73	22.49	23.03
HSDPA Sub-test 1	21.73	21.50	22.10
HSDPA Sub-test 2	21.22	20.99	21.58
HSDPA Sub-test 3	21.23	21.05	21.62
HSDPA Sub-test 4	21.19	21.01	21.58
HSUPA Sub-test 1	19.64	19.63	20.07
HSUPA Sub-test 2	20.17	19.99	20.56
HSUPA Sub-test 3	20.70	20.46	21.08
HSUPA Sub-test 4	19.71	19.64	20.12
HSUPA Sub-test 5	21.68	21.51	22.10

Mode	Average Power (dBm)					
	LTE Band 2	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 41	LTE Band 66
BW/1.4 MHz	23.78	23.93	/	24.13	/	22.85
BW/3.0 MHz	23.76	23.91	/	24.20	/	22.91
BW/5.0 MHz	23.92	24.10	23.81	24.37	23.90	23.02
BW/10 MHz	23.76	23.96	23.77	24.18	23.68	23.69
BW/15 MHz	23.72	/	23.71	/	24.00	23.52
BW/20 MHz	23.70	/	23.77	/	23.40	23.66

Mode	Average Power (dBm)						
	NR Band n5	NR Band n7	NR Band n12	NR Band n41	LTE Band 66	NR Band n77 3450-3550	NR Band n77 3700-3980
BW/10MHz	23.03	23.10	23.94	26.46	23.41	27.32	27.40
BW/15MHz	22.97	23.01	23.84	26.03	23.27	27.27	27.40
BW/20 MHz	22.98	23.05	/	26.06	23.33	27.31	27.39
BW/30MHz	/	/	/	26.02	/	27.32	27.30
BW/40MHz	/	/	/	26.00	23.39	27.25	27.32
BW/50MHz	/	/	/	26.08	/	27.33	27.32
BW/60MHz	/	/	/	25.98	/	27.39	27.28
BW/80MHz	/	/	/	26.12	/	27.38	27.35
BW/90MHz	/	/	/	25.96	/	27.20	27.28
BW/100MHz	/	/	/	25.91	/	27.10	27.26

ANT 1:

WLAN 2.4 GHz Band Average Power (dBm)						
Mode/Band	b	g	n (HT-20)	n (HT-40)	ax20	ax40
WLAN 2.4GHz	17.34	13.93	13.36	13.33	11.21	11.26

ANT 2:

WLAN 2.4 GHz Band Average Power (dBm)						
Mode/Band	b	g	n (HT-20)	n (HT-40)	ax20	ax40
WLAN 2.4GHz	17.67	14.37	15.89	15.91	13.80	13.82

ANT 1:

WLAN 5.2 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.2GHz	13.87	10.02	7.85	6.63	7.77	7.44	6.73	9.38	9.17

ANT 2:

WLAN 5.2 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.2GHz	12.00	12.31	12.12	10.79	11.62	11.42	10.99	13.18	13.04

ANT 1:

WLAN 5.8 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.8GHz	14.04	8.74	8.35	7.03	8.71	6.83	6.48	9.41	9.15

ANT 2:

WLAN 5.8 GHz Band Average Power (dBm)									
Mode/Band	a	ac 20	ac 40	ac 80	ax20	ax40	ax80	n 20	n 40
WLAN 5.8GHz	12.66	12.83	12.99	11.02	12.76	10.98	10.46	13.49	13.27

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=2
Bluetooth	6.91	6.66	7.07	1.98	2.66	2.70	2.77

NFC Band Average Power (dBm)			
Mode/Band	ASK		
NFC	-44.85		

NFC Band Average Power (dBm)			
Mode/Band	ASK		
WPT	-39.70		

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
3#	SAR

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.

5.6 Test Location

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>

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

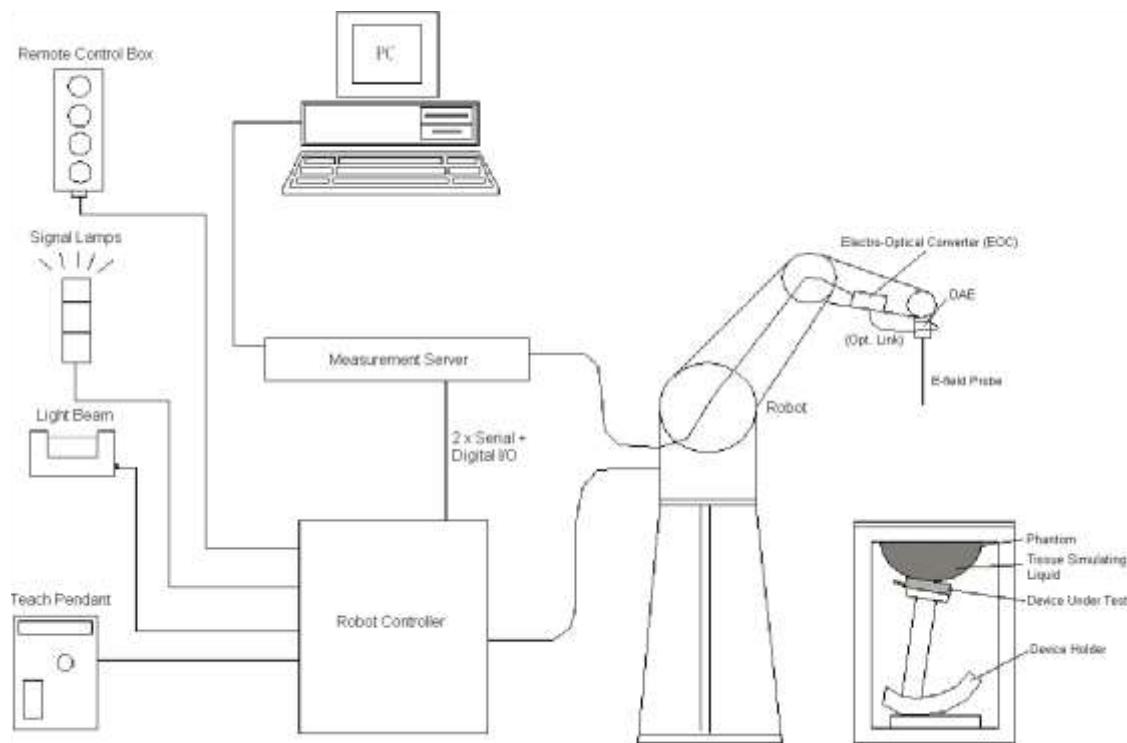


Fig. 8.1 SPEAG DASY System Configurations

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
- Remove control with teach pendant and additional circuitry for robot safety such as warming 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 μ W/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically $< 1 \mu$ W/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 $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y and Norm Z), the diode compression parameter (DCP) and the conversion factor (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 M Ω ; 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.

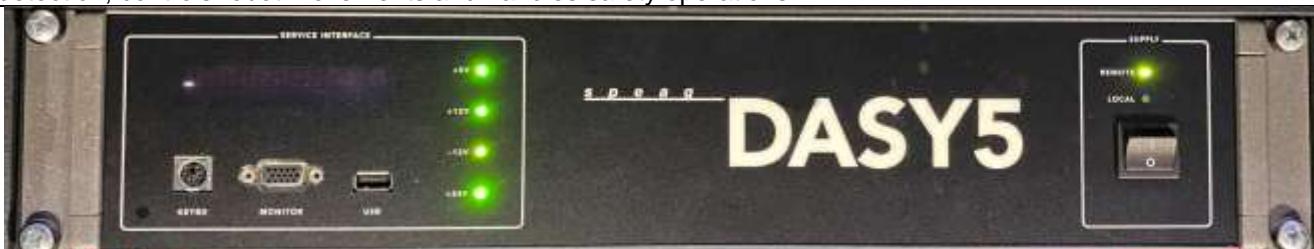


Fig. 8.5 Photo of Server for DASY5

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
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet
Measurement Areas	Left Head, Right Head, Flat phantom



Fig. 8.7 Photo of SAM Twin 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

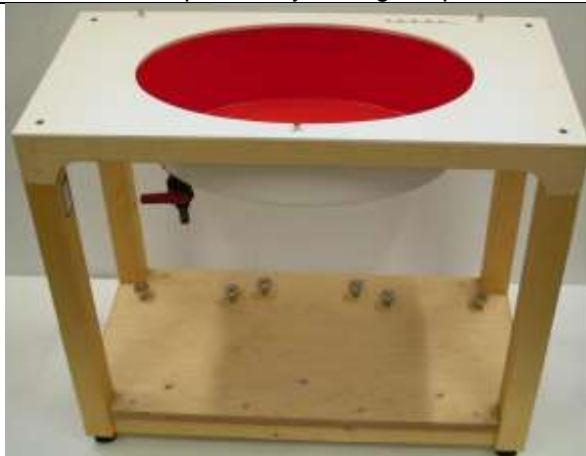


Fig.8.8 Photo of ELI4 Phantom

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 $\pm 20\%$. 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:

$$\text{E- Field Probes: } E_i = \sqrt{\frac{v_i}{Norm_i \cdot ConvF}}$$

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

With

V_i = compensated signal of channel i, ($i = x, y, z$)

$Norm_i$ = sensor sensitivity of channel i, ($i = x, y, z$), $\mu\text{V}/(\text{V}/\text{m})^2$

$ConvF$ = 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/cm³

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	05.28.2020	05.27.2023
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	3500MHz System Validation Kit	D3500V2	WXJ023-8	02.04.2021	02.03.2024
SPEAG	3700MHz System Validation Kit	D3700V2	WXJ023-9	02.04.2021	02.03.2024
SPEAG	3900MHz System Validation Kit	D3900V2	WXJ023-10	02.09.2021	02.08.2024
SPEAG	5GHz System Validation Kit	D5GHzV2	WXJ023-14	02.05.2021	02.04.2024
SPEAG	Data Acquisition Electronics	DAE4	WXJ021	06.06.2022	06.05.2023
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 (7483)	N.C.R	N.C.R
SPEAG	Phantom	Twin Phantom	WXG008-3	N.C.R	N.C.R
SPEAG	Phantom	ELI V5.0	WXG008-4	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	WXG008-5	N.C.R	N.C.R
Stäubli	Robot	TX60L	WXG008-2	N.C.R	N.C.R
KEYSIGHT	UXM 5G Wireless Test Platform	E7515B	WXJ008-6	10.17.2022	10.16.2023
Anritsu	Universal Radio Communication Analyzer	MT8820C	WXJ008-5	03.03.2021	03.02.2023
R&S	Universal Radio Communication Tester	CMU200	WXJ008-2	03.30.2022	03.29.2024
KEYSIGHT	Network Analyzer	E5071C	WXJ091	03.30.2022	03.29.2023
KEYSIGHT	EPM Series Power Meter	N1914A	WXJ075	06.29.2022	06.28.2023
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-1	06.29.2022	06.28.2023
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-2	06.29.2022	06.28.2023
KEYSIGHT	Signal Generator	N5173B	WXJ006-3	06.29.2022	06.28.2023
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.

9 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.

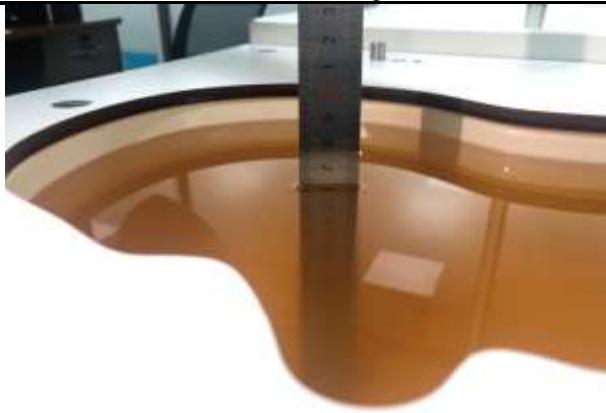


Fig. 9.1 Photo of Liquid Height for Head SAR

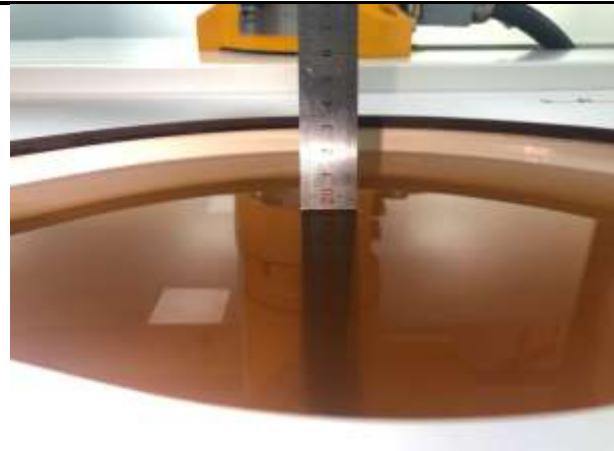


Fig. 9.2 Photo of Liquid Height for Body SAR

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 ρ = 1000 kg/m³)

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	22.6	0.89	40.20	0.89	41.90	0.00	-4.06	± 5	01.12.2023
835	22.6	0.92	39.98	0.90	41.50	2.22	-3.66	± 5	01.12.2023
1750	22.4	1.33	38.48	1.37	40.10	-2.92	-4.04	± 5	01.13.2023
1900	22.4	1.37	38.74	1.40	40.00	-2.14	-3.15	± 5	01.13.2023
2450	22.5	1.72	37.75	1.80	39.20	-4.44	-3.70	± 5	01.16.2023
2600	22.5	1.87	37.75	1.96	39.00	-4.59	-3.21	± 5	01.16.2023
3500	22.3	2.89	37.14	2.91	37.90	-0.69	-2.01	± 5	01.20.2023
3700	22.3	3.08	36.85	3.12	37.70	-1.28	-2.25	± 5	01.20.2023
3900	22.3	3.27	36.81	3.32	37.50	-1.51	-1.84	± 5	01.20.2023
5200	22.8	4.77	36.33	4.67	35.74	2.14	1.65	± 5	01.27.2023
5800	22.8	5.45	35.33	5.27	35.30	3.42	0.08	± 5	01.27.2023

10 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:

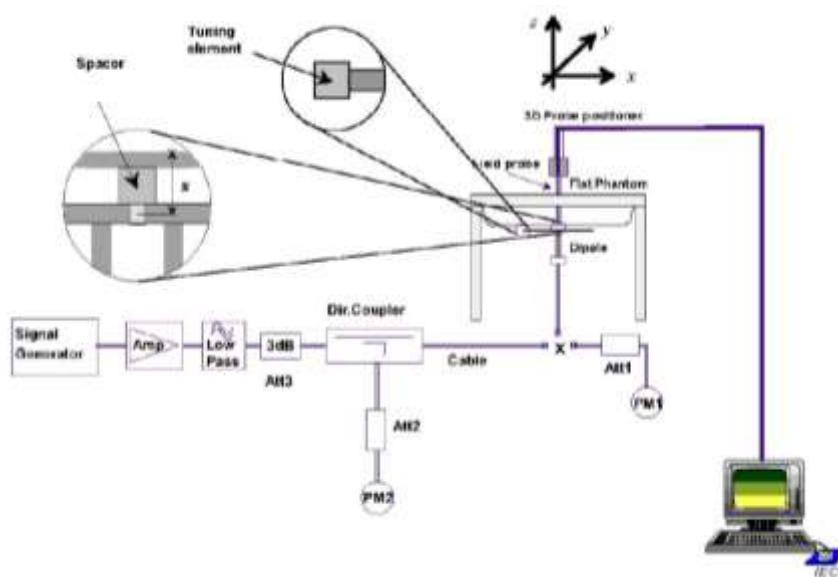


Fig.10.1 System Verification Setup Diagram



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 1g SAR (W/kg)	Target 1g SAR (W/kg)	Deviation (%)
01.12.2023	750	80	0.681	8.51	8.37	1.67
01.12.2023	835	80	0.784	9.80	9.6	2.08
01.13.2023	1750	40	1.522	38.05	36.4	4.53
01.13.2023	1900	40	1.550	38.75	39.9	-2.88
01.16.2023	2450	40	1.954	48.85	53.4	-8.52
01.16.2023	2600	40	2.090	52.25	55.3	-5.52
01.20.2023	3500	40	2.620	65.50	65.6	-0.15
01.20.2023	3700	40	2.580	64.50	66.1	-2.42
01.20.2023	3900	40	2.810	70.25	69.9	0.50
01.27.2023	5200	40	3.020	75.50	79.10	-4.55
01.27.2023	5800	40	3.090	77.25	80.90	-4.51

11 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/Left Side /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.

11.1 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

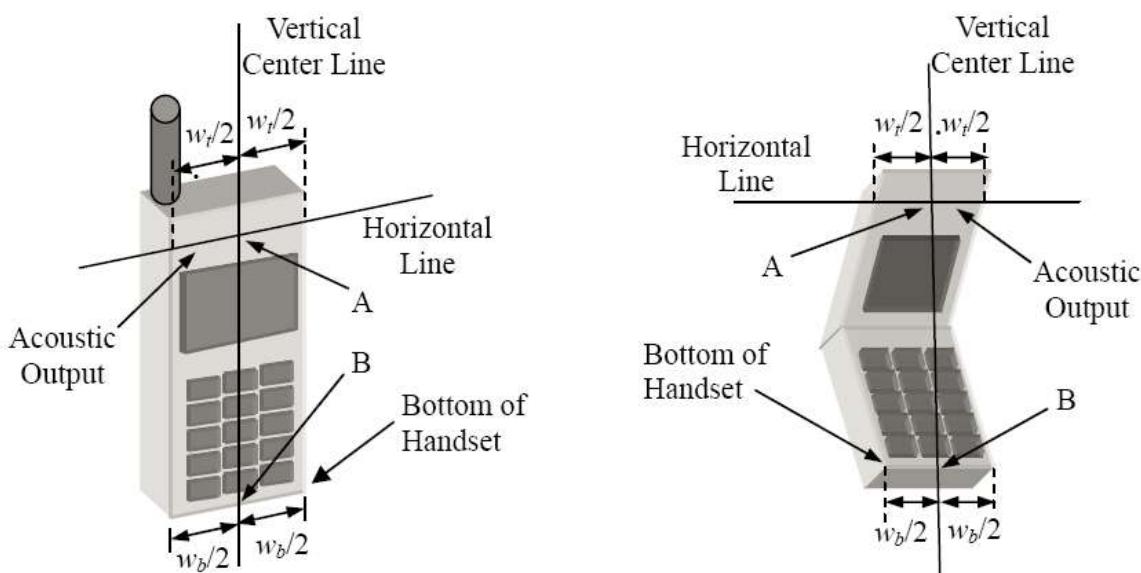


Fig. 11.2 Illustration for Handset Vertical and Horizontal Reference Lines

11.2 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)

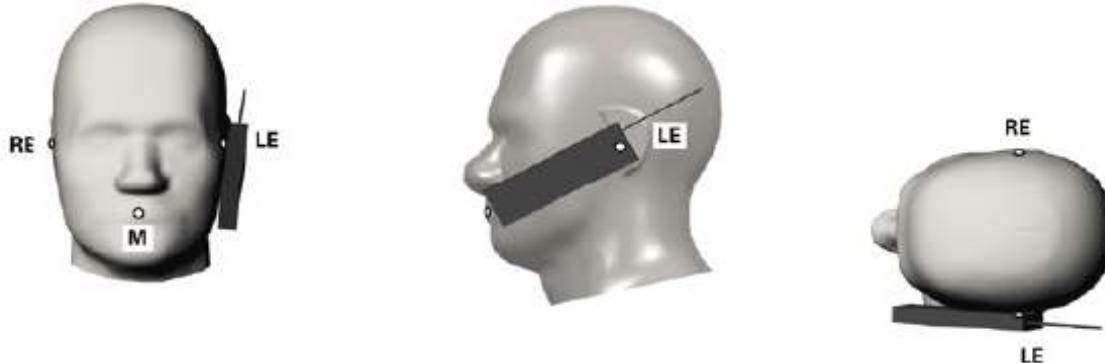


Fig. 11.3 Illustration for Cheek Position

11.3 Positioning for Ear / 15° Tilt

- To position the device in the "cheek" position described above.
- While maintaining the device in 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

11.4 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.

11.5 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.

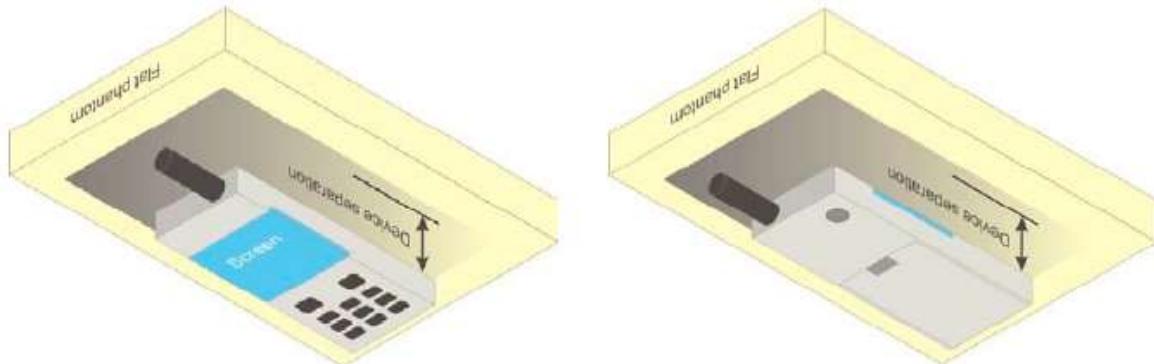


Fig.11.5 Illustration for Body Worn Position

11.6 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.

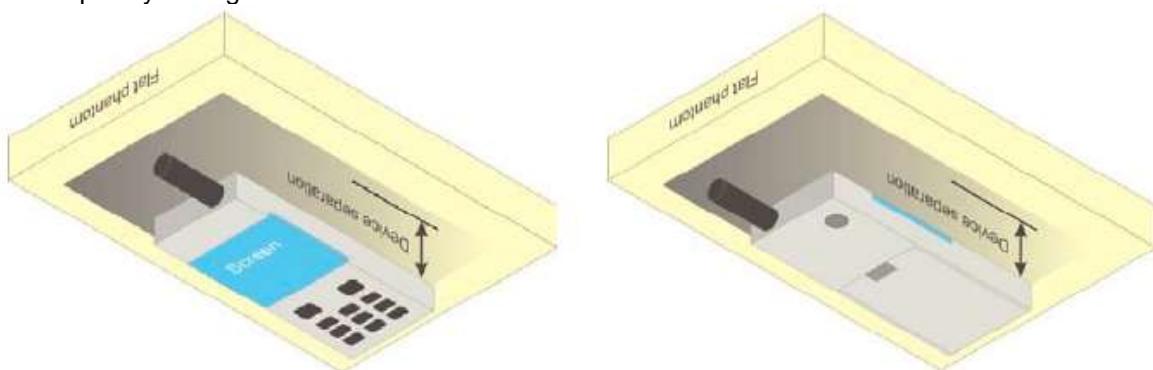


Fig.11.6 Illustration for Hotspot Position

12 Measurement Procedures

The measurement procedures are as bellows:

<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

12.1 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 form the measurement grid to the high-resolution grid
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- Calculation of the averaged SAR within masses of 1g and 10g.

12.2 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.

12.3 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.

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

Note: 5 is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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

12.4 Volume Scan Procedures

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

12.5 SAR Averaged Methods

In DASY, 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.

12.6 Power Drift Monitoring

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

13 Conducted RF Output Power

The detailed conducted power table can refer to JYTSZ-R14-2200272 Appendix D Conducted RF Output Power.

13.1 GSM 850 Conducted Power

Remark:

1. 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:
$$\text{Frame-averaged power} = \text{Burst averaged power} + 10 \log(x)$$

So,
$$\text{Frame-averaged power (1 TX slot)} = \text{Burst averaged power (1 TX slot)} - 9.03$$
$$\text{Frame-averaged power (2 TX slots)} = \text{Burst averaged power (2 TX slots)} - 6.02$$
$$\text{Frame-averaged power (3 TX slots)} = \text{Burst averaged power (3 TX slots)} - 4.26$$
$$\text{Frame-averaged power (4 TX slots)} = \text{Burst averaged power (4 TX slots)} - 3.01$$
2. 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 Voice mode.
2. For Body worn SAR testing, Hotspot mode SAR and Tablet mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 4 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.

13.2 PCS 1900 Conducted Power

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:
$$\text{Frame-averaged power} = \text{Burst averaged power} + 10 \log(x)$$

So,
$$\text{Frame-averaged power (1 TX slot)} = \text{Burst averaged power (1 TX slot)} - 9.03$$
$$\text{Frame-averaged power (2 TX slots)} = \text{Burst averaged power (2 TX slots)} - 6.02$$
$$\text{Frame-averaged power (3 TX slots)} = \text{Burst averaged power (3 TX slots)} - 4.26$$
$$\text{Frame-averaged power (4 TX slots)} = \text{Burst averaged power (4 TX slots)} - 3.01$$
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:

4. For Head SAR testing, GSM Voice mode should be evaluated; therefore the EUT was set in Voice mode.
5. For Body worn SAR testing, Hotspot mode SAR and Tablet mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 4 TX slots mode due to the highest frame-averaged power.
6. Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.

13.3 WCDMA Conducted Power

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

HSDPA Setup Configuration:

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

- The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - 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
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- 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

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.

13.4 LTE Conducted Power

13.4.1 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 $\leq 0.8 \text{ W/kg}$, 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 $> 1.45 \text{ W/kg}$, 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 $\leq 0.8 \text{ W/kg}$. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $> 1.45 \text{ W/kg}$, 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 $> 1/2 \text{ dB}$ higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is $> 1.45 \text{ W/kg}$.

13.4.2 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 $> 1/2 \text{ dB}$ 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 $> 1.45 \text{ W/kg}$. 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

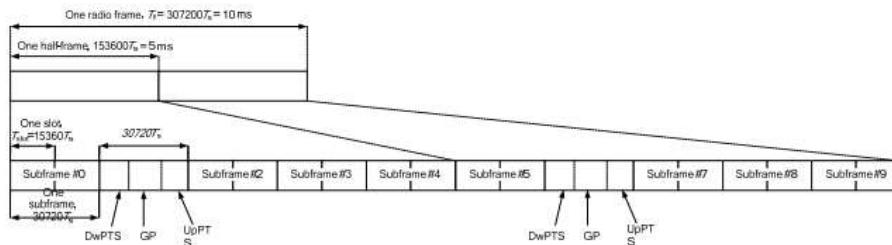


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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· T_s	2192· T_s	7680· T_s	2192· T_s
1	19760· T_s		20480· T_s	
2	21952· T_s		23040· T_s	
3	24144· T_s		25600· T_s	
4	26336· T_s		7680· T_s	
5	6592· T_s		20480· T_s	4384· T_s
6	19760· T_s		23040· T_s	
7	21952· T_s		12800· T_s	
8	24144· T_s		-	
9	13168· T_s		-	-

Per 3GPP 36.211 section 4.2, each radio frame of length $T_f=37200 \cdot T_s = 10$ ms consists of two half-frames of length $153600 \cdot T_s = 5$ ms each. Each half-frame consists of five subframes of length $30720 \cdot T_s = 1$ 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:

- The highest duty factor is configuration 0;
- The duty factor of uplink in one half-frame with normal cyclic prefix is: $(3\text{ms} + 0.143\text{ms})/5\text{ms}=62.86\%$;
- The duty factor of uplink in one half-frame with extended cyclic prefix is: $(3\text{ms} + 0.167\text{ms})/5\text{ms}=63.34\%$;
- 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.

13.5 5G NR Conducted Power

Note:

1. 5G NR n41/n77/n78 supports NSA; n5/n41/n71/n66 supports SA.
2. 5G NR n41/n77/n78 supports HPUE.
3. SAR testing start with the largest channel bandwidth and measure SAR for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure.
5. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not 1/2 dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
6. Smaller bandwidth output power for each RB allocation configuration for this device will not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is less than 1.45 W/kg, smaller bandwidth SAR testing is no required for this device.

13.6 WLAN 2.4 GHz Band Conducted Power

Note:

7. SAR test of WLAN 2.4GHz is performed.
8. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
9. 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:
 - 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - 2) 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.
10. 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.
11. 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.

13.7 WLAN 5.2GHz Band Conducted Power

Note:

12. SAR test of WLAN 5.2GHz is performed. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
13. 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.
14. 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.

13.8 WLAN 5.8GHz Band Conducted Power

Note:

15. SAR test of WLAN 5.8GHz is performed. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
16. 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.
17. 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.

13.9 Bluetooth Conducted Power

Note:

1. SAR test of Bluetooth is performed and the mode with highest average power is selected for SAR testing.
2. The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
3. 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.

13.10 NFC Conducted Power

Note:

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

13.11 WPT Conducted Power

Note:

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

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

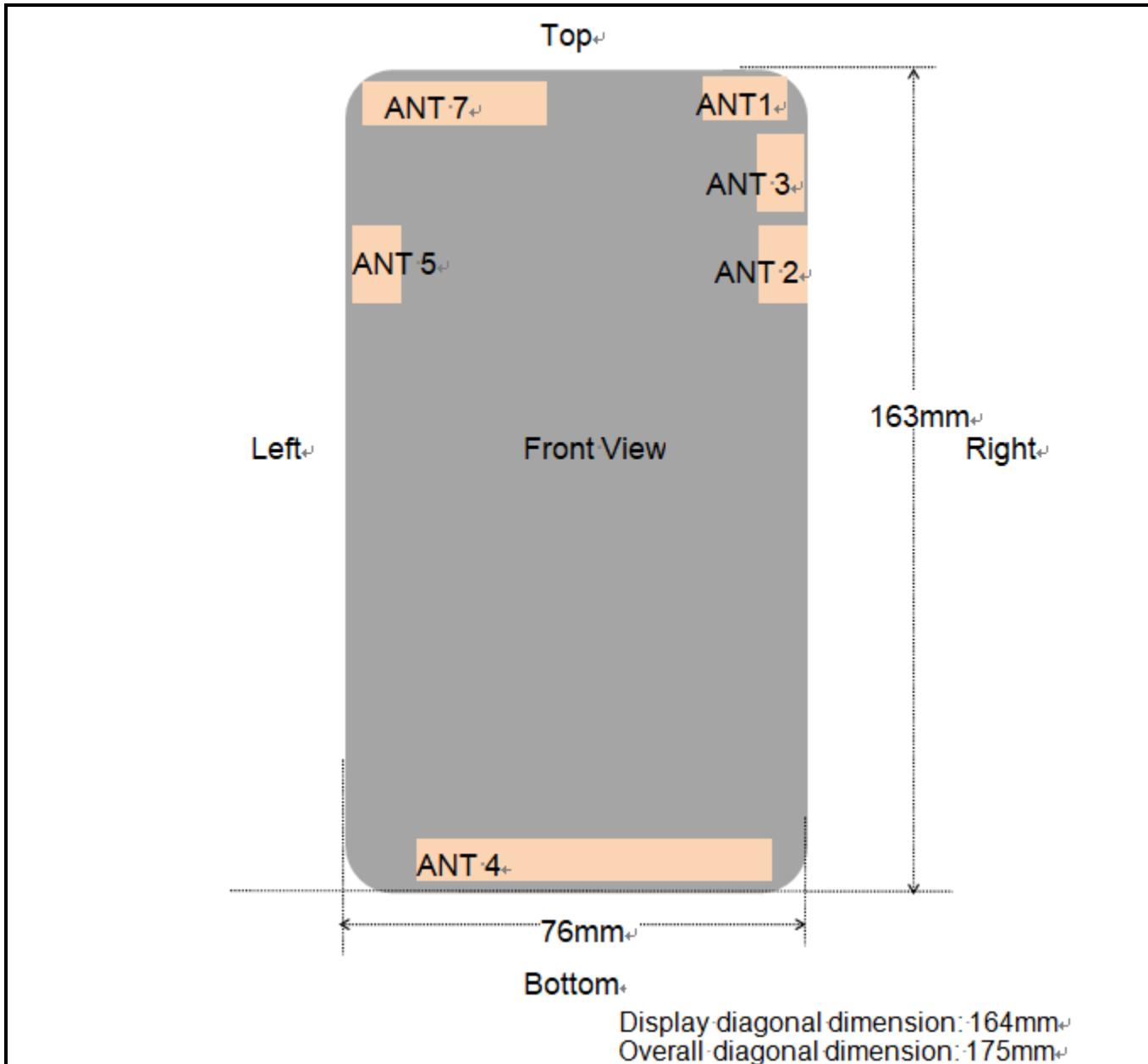


Fig.14.1 EUT Antenna Locations

Note:

1. ANT 7: GSM&WCDMA<E&NR(n5/7/12/38/41/66) Tx ANT
2. ANT 5: LTE(B7/38/41) TX ANT (Only in ENDC mode) ; NR(n77/78) Rx ANT (Rx Only)
3. ANT 4: GSM&WCDMA<E Rx ANT (Rx Only)
4. ANT 3: NR(n77/78) Tx ANT
5. ANT 2: Wi-Fi MIMO ANT
6. ANT 1: Wi-Fi&BT&GPS(L1) ANT

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.

14.2 Test Positions Consideration

Antennas	Distance of Antennas to EUT edge/surface Test distance: 10mm					
	Back	Front	Top Side	Bottom Side	Right Side	Left Side
ANT 1	<25mm	<25mm	<25mm	154mm	<25mm	61mm
ANT 2	<25mm	<25mm	27mm	129mm	<25mm	66mm
ANT 3	<25mm	<25mm	<25mm	137mm	<25mm	68mm
ANT 5	<25mm	<25mm	35mm	99mm	68mm	<25mm
ANT 7	<25mm	<25mm	<25mm	148mm	40mm	<25mm

Antennas	Test Positions Test distance: 10mm					
	Back	Front	Top Side	Bottom Side	Right Side	Left Side
ANT 1	Yes	Yes	Yes	No	Yes	No
ANT 2	Yes	Yes	No	No	Yes	No
ANT 3	Yes	Yes	Yes	No	Yes	No
ANT 5	Yes	Yes	No	No	No	Yes
ANT 7	Yes	Yes	Yes	No	No	Yes

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 $> 1.2 \text{ W/kg}$

15 SAR Test Results Summary

15.1 Standalone Head SAR Data

➤ GSM 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	Reported SAR _{1g} (W/kg)
1	GSM850/Voice	7	Right Cheek	190	836.6	33.14	0.18	33.5	1.090	1.086	1.184
	GSM850/Voice	7	Right Tilted	190	836.6	33.14	0.01	33.5	0.957	1.086	1.039
	GSM850/Voice	7	Left Cheek	190	836.6	33.14	-0.20	33.5	0.721	1.086	0.783
	GSM850/Voice	7	Left Tilted	190	836.6	33.14	0.14	33.5	0.677	1.086	0.735
	GSM850/Voice	7	Right Cheek	128	824.2	32.80	0.11	33.5	0.927	1.175	1.089
	GSM850/Voice	7	Right Cheek	251	848.8	32.97	0.04	33.5	1.040	1.130	1.175
	GSM850/Voice	7	Right Tilted	128	824.2	32.80	-0.03	33.5	0.880	1.175	1.034
	GSM850/Voice	7	Right Tilted	251	848.8	32.97	-0.16	33.5	0.905	1.130	1.023
	GSM850/Voice	7	Right Cheek	190	836.6	33.14	-0.11	33.5	1.081	1.086	1.174
	PCS1900/Voice	7	Right Cheek	512	1850.2	30.04	0.04	30.5	0.162	1.112	0.180
2	PCS1900/Voice	7	Right Tilted	512	1850.2	30.04	0.07	30.5	0.195	1.112	0.217
	PCS1900/Voice	7	Left Cheek	512	1850.2	30.04	-0.09	30.5	0.102	1.112	0.113
	PCS1900/Voice	7	Left Tilted	512	1850.2	30.04	0.18	30.5	0.131	1.112	0.146
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	ANT	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	7	Right Cheek	9262	1852.4	22.73	0.10	23.0	0.211	1.064	0.225
3	Band II/RMC	7	Right Tilted	9262	1852.4	22.73	-0.02	23.0	0.262	1.064	0.279
	Band II/RMC	7	Left Cheek	9262	1852.4	22.73	0.05	23.0	0.148	1.064	0.157
	Band II/RMC	7	Left Tilted	9262	1852.4	22.73	0.06	23.0	0.186	1.064	0.198
	Band IV/RMC	7	Right Cheek	1513	1752.6	22.49	0.09	22.5	0.181	1.002	0.181
4	Band IV/RMC	7	Right Tilted	1513	1752.6	22.49	0.02	22.5	0.222	1.002	0.222
	Band IV/RMC	7	Left Cheek	1513	1752.6	22.49	0.20	22.5	0.100	1.002	0.100
	Band IV/RMC	7	Left Tilted	1513	1752.6	22.49	-0.03	22.5	0.134	1.002	0.134
5	Band V/RMC	7	Right Cheek	4183	836.6	23.03	0.05	23.5	0.521	1.114	0.580
	Band V/RMC	7	Right Tilted	4183	836.6	23.03	0.05	23.5	0.441	1.114	0.491
	Band V/RMC	7	Left Cheek	4183	836.6	23.03	-0.11	23.5	0.286	1.114	0.319
	Band V/RMC	7	Left Tilted	4183	836.6	23.03	-0.10	23.5	0.213	1.114	0.237
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	ANT	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)
6	Band2/1RB#49	7	Right Cheek	18700	1860	23.70	0.05	24.0	0.213	1.072	0.228
	Band2/1RB#49	7	Right Tilted	18700	1860	23.70	-0.19	24.0	0.264	1.072	0.283
	Band2/1RB#49	7	Left Cheek	18700	1860	23.70	-0.20	24.0	0.123	1.072	0.132
	Band2/1RB#49	7	Left Tilted	18700	1860	23.70	0.12	24.0	0.176	1.072	0.189
	Band2/50%RB#24	7	Right Cheek	19100	1900	22.61	-0.18	23.0	0.197	1.094	0.216
	Band2/50%RB#24	7	Right Tilted	19100	1900	22.61	0.09	23.0	0.225	1.094	0.246
	Band2/50%RB#24	7	Left Cheek	19100	1900	22.61	-0.03	23.0	0.110	1.094	0.120
	Band2/50%RB#24	7	Left Tilted	19100	1900	22.61	0.04	23.0	0.153	1.094	0.167
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	ANT	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#24	7	Right Cheek	20450	829	23.96	0.01	24.5	0.411	1.132	0.465
	Band5/1RB#24	7	Right Tilted	20450	829	23.96	-0.02	24.5	0.353	1.132	0.400
	Band5/1RB#24	7	Left Cheek	20450	829	23.96	0.07	24.5	0.289	1.132	0.327
	Band5/1RB#24	7	Left Tilted	20450	829	23.96	-0.16	24.5	0.203	1.132	0.230
	Band5/50%RB#12	7	Right Cheek	20600	844	22.89	-0.05	23.0	0.345	1.026	0.354
	Band5/50%RB#12	7	Right Tilted	20600	844	22.89	-0.17	23.0	0.308	1.026	0.316
	Band5/50%RB#12	7	Left Cheek	20600	844	22.89	-0.11	23.0	0.257	1.026	0.264
	Band5/50%RB#12	7	Left Tilted	20600	844	22.89	0.01	23.0	0.171	1.026	0.175
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	ANT	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)
8	Band7/1RB#49	7	Right Cheek	20850	2510	23.77	0.10	24.0	0.253	1.054	0.267
	Band7/1RB#49	7	Right Tilted	20850	2510	23.77	-0.12	24.0	0.221	1.054	0.233
	Band7/1RB#49	7	Left Cheek	20850	2510	23.77	-0.05	24.0	0.203	1.054	0.214
	Band7/1RB#49	7	Left Tilted	20850	2510	23.77	-0.09	24.0	0.176	1.054	0.186
	Band7/50%RB#0	7	Right Cheek	20850	2510	22.64	0.20	23.0	0.213	1.086	0.231
	Band7/50%RB#0	7	Right Tilted	20850	2510	22.64	0.05	23.0	0.196	1.086	0.213
	Band7/50%RB#0	7	Left Cheek	20850	2510	22.64	0.17	23.0	0.176	1.086	0.191
	Band7/50%RB#0	7	Left Tilted	20850	2510	22.64	-0.03	23.0	0.149	1.086	0.162
8	Band7/1RB#49 ENDC	5	Right Cheek	20850	2510	21.69	0.06	22.0	0.276	1.074	0.296
	Band7/1RB#49 ENDC	5	Right Tilted	20850	2510	21.69	-0.08	22.0	0.121	1.074	0.130
	Band7/1RB#49 ENDC	5	Left Cheek	20850	2510	21.69	0.03	22.0	0.213	1.074	0.229
	Band7/1RB#49 ENDC	5	Left Tilted	20850	2510	21.69	-0.09	22.0	0.091	1.074	0.098
	Band7/50%RB#0 ENDC	5	Right Cheek	20850	2510	20.62	0.05	21.0	0.225	1.091	0.245
	Band7/50%RB#0 ENDC	5	Right Tilted	20850	2510	20.62	-0.20	21.0	0.110	1.091	0.120
	Band7/50%RB#0 ENDC	5	Left Cheek	20850	2510	20.62	0.05	21.0	0.193	1.091	0.211
	Band7/50%RB#0 ENDC	5	Left Tilted	20850	2510	20.62	0.11	21.0	0.073	1.091	0.080
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	ANT	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	7	Right Cheek	23060	704	24.18	0.09	24.5	0.280	1.076	0.301
	Band12/1RB#0	7	Right Tilted	23060	704	24.18	0.07	24.5	0.245	1.076	0.264
	Band12/1RB#0	7	Left Cheek	23060	704	24.18	0.13	24.5	0.216	1.076	0.232
	Band12/1RB#0	7	Left Tilted	23060	704	24.18	0.09	24.5	0.188	1.076	0.202
	Band12/50%RB#0	7	Right Cheek	23060	704	23.08	0.06	23.5	0.227	1.102	0.250
	Band12/50%RB#0	7	Right Tilted	23060	704	23.08	0.07	23.5	0.193	1.102	0.213
	Band12/50%RB#0	7	Left Cheek	23060	704	23.08	0.18	23.5	0.175	1.102	0.193
	Band12/50%RB#0	7	Left Tilted	23060	704	23.08	0.11	23.5	0.143	1.102	0.158
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	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)
10	Band41/1RB#49	7	Right Cheek	40620	2593	23.40	-0.07	24.0	0.408	1.148	1.008	0.472
	Band41/1RB#49	7	Right Tilted	40620	2593	23.40	0.03	24.0	0.345	1.148	1.008	0.399
	Band41/1RB#49	7	Left Cheek	40620	2593	23.40	-0.07	24.0	0.308	1.148	1.008	0.356
	Band41/1RB#49	7	Left Tilted	40620	2593	23.40	0.18	24.0	0.263	1.148	1.008	0.304
	Band41/50%RB#0	7	Right Cheek	40620	2593	22.40	0.20	22.5	0.332	1.023	1.008	0.342
	Band41/50%RB#0	7	Right Tilted	40620	2593	22.40	-0.20	22.5	0.293	1.023	1.008	0.302
	Band41/50%RB#0	7	Left Cheek	40620	2593	22.40	-0.19	22.5	0.247	1.023	1.008	0.255
	Band41/50%RB#0	7	Left Tilted	40620	2593	22.40	-0.11	22.5	0.201	1.023	1.008	0.207
	Band41/1RB#49 ENDC	5	Right Cheek	40620	2593	21.44	0.05	22.0	0.158	1.138	1.008	0.181
	Band41/1RB#49 ENDC	5	Right Tilted	40620	2593	21.44	0.02	22.0	0.045	1.138	1.008	0.052
	Band41/1RB#49 ENDC	5	Left Cheek	40620	2593	21.44	-0.04	22.0	0.078	1.138	1.008	0.089
	Band41/1RB#49 ENDC	5	Left Tilted	40620	2593	21.44	-0.08	22.0	0.019	1.138	1.008	0.022
	Band41/50%RB#49 ENDC	5	Right Cheek	40620	2593	20.47	-0.06	20.5	0.121	1.007	1.008	0.123
	Band41/50%RB#49 ENDC	5	Right Tilted	40620	2593	20.47	0.11	20.5	0.030	1.007	1.008	0.030
	Band41/50%RB#49 ENDC	5	Left Cheek	40620	2593	20.47	0.15	20.5	0.056	1.007	1.008	0.057
	Band41/50%RB#49 ENDC	5	Left Tilted	40620	2593	20.47	-0.15	20.5	0.012	1.007	1.008	0.012
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	ANT	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)
11	Band66/1RB#99	7	Right Cheek	132072	1720	23.66	0.08	24.0	0.375	1.081	0.405
	Band66/1RB#99	7	Right Tilted	132072	1720	23.66	0.01	24.0	0.313	1.081	0.338
	Band66/1RB#99	7	Left Cheek	132072	1720	23.66	-0.07	24.0	0.289	1.081	0.312
	Band66/1RB#99	7	Left Tilted	132072	1720	23.66	0.13	24.0	0.244	1.081	0.264
	Band66/50%RB#0	7	Right Cheek	132572	1770	22.67	-0.06	23.0	0.312	1.079	0.337
	Band66/50%RB#0	7	Right Tilted	132572	1770	22.67	0.17	23.0	0.285	1.079	0.308
	Band66/50%RB#0	7	Left Cheek	132572	1770	22.67	-0.09	23.0	0.262	1.079	0.283
	Band66/50%RB#0	7	Left Tilted	132572	1770	22.67	0.05	23.0	0.230	1.079	0.248
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n5 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n5 DFT-BPSK /1@1 20M	7	Right Cheek	167300	836.5	22.93	0.14	23.5	0.565	1.140	0.644
	NR n5 DFT-BPSK /1@1 20M	7	Right Tilted	167300	836.5	22.93	0.09	23.5	0.559	1.140	0.637
	NR n5 DFT-BPSK /1@1 20M	7	Left Cheek	167300	836.5	22.93	0.01	23.5	0.321	1.140	0.366
	NR n5 DFT-BPSK /1@1 20M	7	Left Tilted	167300	836.5	22.93	-0.06	23.5	0.313	1.140	0.357
12	NR n5 DFT-BPSK /25@12 20M	7	Right Cheek	167300	836.5	22.98	0.02	23.5	0.592	1.127	0.667
	NR n5 DFT-BPSK /25@12 20M	7	Right Tilted	167300	836.5	22.98	-0.14	23.5	0.576	1.127	0.649
	NR n5 DFT-BPSK /25@12 20M	7	Left Cheek	167300	836.5	22.98	-0.04	23.5	0.458	1.127	0.516
	NR n5 DFT-BPSK /25@12 20M	7	Left Tilted	167300	836.5	22.98	-0.16	23.5	0.429	1.127	0.483
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n7 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n7 DFT-BPSK /1@120M	7	Right Cheek	502000	2510	22.83	-0.13	23.0	0.152	1.040	0.158
	NR n7 DFT-BPSK /1@120M	7	Right Tilted	502000	2510	22.83	-0.01	23.0	0.124	1.040	0.129
	NR n7 DFT-BPSK /1@120M	7	Left Cheek	502000	2510	22.83	0.18	23.0	0.113	1.040	0.118
	NR n7 DFT-BPSK /1@120M	7	Left Tilted	502000	2510	22.83	0.14	23.0	0.095	1.040	0.099
13	NR n7 DFT-BPSK /25@1220M	7	Right Cheek	502000	2510	23.02	-0.09	23.5	0.165	1.117	0.184
	NR n7 DFT-BPSK /25@1220M	7	Right Tilted	502000	2510	23.02	0.13	23.5	0.132	1.117	0.147
	NR n7 DFT-BPSK /25@1220M	7	Left Cheek	502000	2510	23.02	-0.03	23.5	0.121	1.117	0.135
	NR n7 DFT-BPSK /25@1220M	7	Left Tilted	502000	2510	23.02	-0.20	23.5	0.100	1.117	0.112
	NR n7 DFT-BPSK /1@120M NSA	7	Right Cheek	507000	2535	20.51	0.02	21.0	0.090	1.119	0.101
	NR n7 DFT-BPSK /1@120M NSA	7	Right Tilted	507000	2535	20.51	0.17	21.0	0.072	1.119	0.081
	NR n7 DFT-BPSK /1@120M NSA	7	Left Cheek	507000	2535	20.51	0.08	21.0	0.073	1.119	0.082
	NR n7 DFT-BPSK /1@120M NSA	7	Left Tilted	507000	2535	20.51	0.13	21.0	0.058	1.119	0.065
	NR n7 DFT-BPSK /25@1220M NSA	7	Right Cheek	507000	2535	20.68	0.00	21.0	0.109	1.076	0.117
	NR n7 DFT-BPSK /25@1220M NSA	7	Right Tilted	507000	2535	20.68	-0.20	21.0	0.084	1.076	0.090
	NR n7 DFT-BPSK /25@1220M NSA	7	Left Cheek	507000	2535	20.68	-0.12	21.0	0.086	1.076	0.093
	NR n7 DFT-BPSK /25@1220M NSA	7	Left Tilted	507000	2535	20.68	-0.16	21.0	0.069	1.076	0.074
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n12 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
14	NR n12 DFT-BPSK /1@1 15M	7	Right Cheek	141300	706.5	23.75	-0.06	24.0	0.234	1.059	0.248
	NR n12 DFT-BPSK /1@1 15M	7	Right Tilted	141300	706.5	23.75	0.13	24.0	0.211	1.059	0.223
	NR n12 DFT-BPSK /1@1 15M	7	Left Cheek	141300	706.5	23.75	0.02	24.0	0.198	1.059	0.210
	NR n12 DFT-BPSK /1@1 15M	7	Left Tilted	141300	706.5	23.75	0.03	24.0	0.176	1.059	0.186
	NR n12 DFT-BPSK /18@9 15M	7	Right Cheek	141500	707.5	23.82	0.07	24.0	0.230	1.042	0.240
	NR n12 DFT-BPSK /18@9 15M	7	Right Tilted	141500	707.5	23.82	-0.19	24.0	0.208	1.042	0.217
	NR n12 DFT-BPSK /18@9 15M	7	Left Cheek	141500	707.5	23.82	0.17	24.0	0.191	1.042	0.199
	NR n12 DFT-BPSK /18@9 15M	7	Left Tilted	141500	707.5	23.82	-0.03	24.0	0.168	1.042	0.175
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n41 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n41 DFT-BPSK /1@1 100M	7	Right Cheek	509202	2546.01	24.98	0.08	25.0	0.328	1.005	0.330
	NR n41 DFT-BPSK /1@1 100M	7	Right Tilted	509202	2546.01	24.98	0.12	25.0	0.300	1.005	0.302
	NR n41 DFT-BPSK /1@1 100M	7	Left Cheek	509202	2546.01	24.98	0.08	25.0	0.280	1.005	0.281
	NR n41 DFT-BPSK /1@1 100M	7	Left Tilted	509202	2546.01	24.98	0.05	25.0	0.254	1.005	0.255
15	NR n41 DFT-BPSK /135@67 100M	7	Right Cheek	509202	2546.01	25.79	-0.03	26.5	0.441	1.178	0.519
	NR n41 DFT-BPSK /135@67 100M	7	Right Tilted	509202	2546.01	25.79	-0.17	26.5	0.415	1.178	0.489
	NR n41 DFT-BPSK /135@67 100M	7	Left Cheek	509202	2546.01	25.79	0.04	26.5	0.398	1.178	0.469
	NR n41 DFT-BPSK /135@67 100M	7	Left Tilted	509202	2546.01	25.79	0.09	26.5	0.374	1.178	0.441
	NR n41 DFT-BPSK /1@1 100M NSA	7	Right Cheek	518598	2592.99	20.38	0.11	20.5	0.052	1.028	0.053
	NR n41 DFT-BPSK /1@1 100M NSA	7	Right Tilted	518598	2592.99	20.38	-0.07	20.5	0.043	1.028	0.044
	NR n41 DFT-BPSK /1@1 100M NSA	7	Left Cheek	518598	2592.99	20.38	-0.18	20.5	0.039	1.028	0.040
	NR n41 DFT-BPSK /1@1 100M NSA	7	Left Tilted	518598	2592.99	20.38	-0.19	20.5	0.031	1.028	0.032
	NR n41 DFT-BPSK /135@67 100M NSA	7	Right Cheek	518598	2592.99	20.31	0.00	20.5	0.064	1.045	0.067
	NR n41 DFT-BPSK /135@67 100M NSA	7	Right Tilted	518598	2592.99	20.31	0.04	20.5	0.052	1.045	0.054
	NR n41 DFT-BPSK /135@67 100M NSA	7	Left Cheek	518598	2592.99	20.31	-0.05	20.5	0.044	1.045	0.046
	NR n41 DFT-BPSK /135@67 100M NSA	7	Left Tilted	518598	2592.99	20.31	0.03	20.5	0.037	1.045	0.039
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n66 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n66 DFT-BPSK /1@140M	7	Right Cheek	352000	1760	22.78	-0.08	23.0	0.829	1.052	0.872
	NR n66 DFT-BPSK /1@140M	7	Right Tilted	352000	1760	22.78	-0.01	23.0	0.993	1.052	1.045
	NR n66 DFT-BPSK /1@140M	7	Left Cheek	352000	1760	22.78	0.12	23.0	0.673	1.052	0.708
	NR n66 DFT-BPSK /1@140M	7	Left Tilted	352000	1760	22.78	0.08	23.0	0.749	1.052	0.788
	NR n66 DFT-BPSK /1@140M	7	Right Cheek	346000	1730	22.77	0.01	23.0	0.766	1.054	0.807
	NR n66 DFT-BPSK /1@140M	7	Right Cheek	349000	1745	22.71	0.20	23.0	0.844	1.069	0.902
	NR n66 DFT-BPSK /1@10440M	7	Right Tilted	346000	1730	22.77	0.00	23.0	0.913	1.054	0.962
	NR n66 DFT-BPSK /1@140M	7	Right Tilted	349000	1745	22.71	0.20	23.0	1.103	1.069	1.179
	NR n66 DFT-BPSK /50@2540M	7	Right Cheek	349000	1745	23.39	-0.20	23.5	0.904	1.026	0.928
	NR n66 DFT-BPSK /50@2540M	7	Right Tilted	349000	1745	23.39	-0.06	23.5	1.010	1.026	1.036
	NR n66 DFT-BPSK /50@2540M	7	Left Cheek	349000	1745	23.39	0.04	23.5	0.624	1.026	0.640
	NR n66 DFT-BPSK /50@2540M	7	Left Tilted	349000	1745	23.39	-0.05	23.5	0.760	1.026	0.780
	NR n66 DFT-BPSK /50@2540M	7	Right Cheek	346000	1730	23.12	0.13	23.5	0.775	1.091	0.846
	NR n66 DFT-BPSK /50@2540M	7	Right Cheek	352000	1760	23.35	-0.15	23.5	1.061	1.035	1.098
	NR n66 DFT-BPSK /50@2540M	7	Right Tilted	346000	1730	23.12	0.02	23.5	0.867	1.091	0.946
16	NR n66 DFT-BPSK /50@2540M	7	Right Tilted	352000	1760	23.35	0.00	23.5	1.150	1.035	1.190
	NR n66 DFT-BPSK /50@2540M	7	Right Tilted	352000	1760	23.35	0.12	23.5	1.139	1.035	1.179
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3450MHz~3550MHz) DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	3	Right Cheek	633334	3500.01	26.33	-0.12	26.5	0.159	1.040	0.165
	NR n77 DFT-BPSK /1@1 100M	3	Right Tilted	633334	3500.01	26.33	-0.15	26.5	0.100	1.040	0.104
	NR n77 DFT-BPSK /1@1 100M	3	Left Cheek	633334	3500.01	26.33	-0.06	26.5	0.250	1.040	0.260
	NR n77 DFT-BPSK /1@1 100M	3	Left Tilted	633334	3500.01	26.33	0.04	26.5	0.172	1.040	0.179
	NR n77 DFT-BPSK /135@67 100M	3	Right Cheek	633334	3500.01	27.10	0.03	27.5	0.254	1.107	0.281
	NR n77 DFT-BPSK /135@67 100M	3	Right Tilted	633334	3500.01	27.10	0.04	27.5	0.193	1.107	0.214
17	NR n77 DFT-BPSK /135@67 100M	3	Left Cheek	633334	3500.01	27.10	-0.14	27.5	0.339	1.107	0.375
	NR n77 DFT-BPSK /135@67 100M	3	Left Tilted	633334	3500.01	27.10	0.02	27.5	0.276	1.107	0.306
	NR n77 DFT-BPSK /1@1 100M NSA	3	Right Cheek	633334	3500.01	20.32	-0.01	20.5	0.041	1.042	0.043
	NR n77 DFT-BPSK /1@1 100M NSA	3	Right Tilted	633334	3500.01	20.32	0.10	20.5	0.027	1.042	0.028
	NR n77 DFT-BPSK /1@1 100M NSA	3	Left Cheek	633334	3500.01	20.32	0.14	20.5	0.073	1.042	0.076
	NR n77 DFT-BPSK /1@1 100M NSA	3	Left Tilted	633334	3500.01	20.32	-0.17	20.5	0.048	1.042	0.050
	NR n77 DFT-BPSK /135@67 100M NSA	3	Right Cheek	633334	3500.01	20.36	0.20	20.5	0.047	1.033	0.049
	NR n77 DFT-BPSK /135@67 100M NSA	3	Right Tilted	633334	3500.01	20.36	0.04	20.5	0.031	1.033	0.032
	NR n77 DFT-BPSK /135@67 100M NSA	3	Left Cheek	633334	3500.01	20.36	0.07	20.5	0.089	1.033	0.092
	NR n77 DFT-BPSK /135@67 100M NSA	3	Left Tilted	633334	3500.01	20.36	0.14	20.5	0.053	1.033	0.055
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3700MHz~3980MHz) DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@271 100M	3	Right Cheek	650000	3750	26.59	0.20	27.0	0.199	1.099	0.219
	NR n77 DFT-BPSK /1@271 100M	3	Right Tilted	650000	3750	26.59	0.08	27.0	0.261	1.099	0.287
	NR n77 DFT-BPSK /1@271 100M	3	Left Cheek	650000	3750	26.59	-0.14	27.0	0.344	1.099	0.378
	NR n77 DFT-BPSK /1@271 100M	3	Left Tilted	650000	3750	26.59	-0.07	27.0	0.287	1.099	0.315
	NR n77 DFT-BPSK /135@67 100M	3	Right Cheek	650000	3750	27.13	0.19	27.5	0.264	1.089	0.287
	NR n77 DFT-BPSK /135@67 100M	3	Right Tilted	650000	3750	27.13	-0.13	27.5	0.358	1.089	0.390
18	NR n77 DFT-BPSK /135@67 100M	3	Left Cheek	650000	3750	27.13	-0.14	27.5	0.545	1.089	0.594
	NR n77 DFT-BPSK /135@67 100M	3	Left Tilted	650000	3750	27.13	-0.12	27.5	0.411	1.089	0.448
	NR n77 DFT-BPSK /1@271 100M NSA	3	Right Cheek	656000	3840	19.85	0.03	20.0	0.057	1.035	0.059
	NR n77 DFT-BPSK /1@271 100M NSA	3	Right Tilted	656000	3840	19.85	-0.09	20.0	0.044	1.035	0.046
	NR n77 DFT-BPSK /1@271 100M NSA	3	Left Cheek	656000	3840	19.85	-0.13	20.0	0.096	1.035	0.099
	NR n77 DFT-BPSK /1@271 100M NSA	3	Left Tilted	656000	3840	19.85	0.03	20.0	0.065	1.035	0.067
	NR n77 DFT-BPSK /135@67 100M NSA	3	Right Cheek	650000	3750	20.92	0.15	21.0	0.089	1.019	0.091
	NR n77 DFT-BPSK /135@67 100M NSA	3	Right Tilted	650000	3750	20.92	0.05	21.0	0.067	1.019	0.068
	NR n77 DFT-BPSK /135@67 100M NSA	3	Left Cheek	650000	3750	20.92	-0.06	21.0	0.142	1.019	0.145
	NR n77 DFT-BPSK /135@67 100M NSA	3	Left Tilted	650000	3750	20.92	-0.09	21.0	0.102	1.019	0.104
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	1	Right Cheek	11	2462	17.34	0.06	17.5	0.082	1.038	1.000	0.085
	2.4GHz/802.11b	1	Right Tilted	11	2462	17.34	0.10	17.5	0.066	1.038	1.000	0.069
	2.4GHz/802.11b	1	Left Cheek	11	2462	17.34	-0.03	17.5	0.151	1.038	1.000	0.157
	2.4GHz/802.11b	1	Left Tilted	11	2462	17.34	0.07	17.5	0.103	1.038	1.000	0.107
	2.4GHz/802.11b	2	Right Cheek	1	2412	17.67	-0.08	18.0	0.126	1.079	1.000	0.136
	2.4GHz/802.11b	2	Right Tilted	1	2412	17.67	-0.08	18.0	0.031	1.079	1.000	0.033
19	2.4GHz/802.11b	2	Left Cheek	1	2412	17.67	0.02	18.0	0.173	1.079	1.000	0.187
	2.4GHz/802.11b	2	Left Tilted	1	2412	17.67	0.04	18.0	0.058	1.079	1.000	0.063
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	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)
	5.2GHz/802.11a	1	Right Cheek	40	5200	13.87	-0.01	14.0	0.102	1.030	1.000	0.105
	5.2GHz/802.11a	1	Right Tilted	40	5200	13.87	0.12	14.0	0.131	1.030	1.000	0.135
	5.2GHz/802.11a	1	Left Cheek	40	5200	13.87	-0.01	14.0	0.144	1.030	1.000	0.148
	5.2GHz/802.11a	1	Left Tilted	40	5200	13.87	-0.06	14.0	0.179	1.030	1.000	0.184
	5.2GHz/802.11n20	2	Right Cheek	36	5180	13.18	0.10	13.5	0.089	1.076	1.000	0.096
	5.2GHz/802.11n20	2	Right Tilted	36	5180	13.18	0.14	13.5	0.024	1.076	1.000	0.026
20	5.2GHz/802.11n20	2	Left Cheek	36	5180	13.18	0.07	13.5	0.184	1.076	1.000	0.198
	5.2GHz/802.11n20	2	Left Tilted	36	5180	13.18	0.11	13.5	0.047	1.076	1.000	0.051
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	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)
	5.8GHz/802.11a	1	Right Cheek	149	5745	14.04	0.05	14.5	0.049	1.112	1.000	0.054
	5.8GHz/802.11a	1	Right Tilted	149	5745	14.04	0.07	14.5	0.067	1.112	1.000	0.075
	5.8GHz/802.11a	1	Left Cheek	149	5745	14.04	0.07	14.5	0.064	1.112	1.000	0.071
21	5.8GHz/802.11a	1	Left Tilted	149	5745	14.04	0.00	14.5	0.088	1.112	1.000	0.098
	5.8GHz/802.11a	2	Right Cheek	149	5745	12.66	0.01	13.5	0.061	1.213	1.000	0.074
	5.8GHz/802.11a	2	Right Tilted	149	5745	12.66	-0.19	13.5	0.052	1.213	1.000	0.063
	5.8GHz/802.11a	2	Left Cheek	149	5745	12.66	-0.04	13.5	0.088	1.213	1.000	0.107
	5.8GHz/802.11a	2	Left Tilted	149	5745	12.66	0.03	13.5	0.069	1.213	1.000	0.084
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/8DPSK	1	Right Cheek	39	2441	7.07	-0.01	7.5	0.004	1.104	1.000	0.004
	BT/8DPSK	1	Right Tilted	39	2441	7.07	-0.01	7.5	0.003	1.104	1.000	0.003
22	BT/8DPSK	1	Left Cheek	39	2441	7.07	0.00	7.5	0.005	1.104	1.000	0.006
	BT/8DPSK	1	Left Tilted	39	2441	7.07	-0.02	7.5	0.004	1.104	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							

Note:

1. Per KDB 447498 D04v01, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8\text{W/kg}$, other channels SAR testing is not necessary.
2. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is $\geq 0.8\text{W/kg}$.
3. 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 $\leq 0.8\text{ W/kg}$.
4. 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 $\leq 0.8\text{ W/kg}$, no further SAR testing is required in that exposure configuration.
5. 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 $\leq 1.2\text{ W/kg}$. Cuz the maximum output power specified for OFDM and DSSS are 39.81mW(16.0dBm) and 63.10mW(18.0dBm), the scaled SAR would be $0.187 \times (39.81/63.10) = 0.118\text{W/Kg} < 1.2\text{ W/kg}$, therefore, SAR is not required for OFDM.
6. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.

15.2 Standalone Body SAR

➤ GSM 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	Reported SAR _{1g} (W/kg)
	GPRS850/4 slots	7	Front	190	836.6	29.36	0.15	29.5	0.341	1.033	0.352
23	GPRS850/4 slots	7	Back	190	836.6	29.36	0.02	29.5	0.384	1.033	0.397
	GPRS1900/4 slots	7	Front	512	1850.2	26.26	0.12	26.5	0.065	1.057	0.069
24	GPRS1900/4 slots	7	Back	512	1850.2	26.26	0.06	26.5	0.143	1.057	0.151
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	ANT	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	7	Front	9262	1852.4	22.73	0.06	23.0	0.044	1.064	0.047
25	Band II/RMC	7	Back	9262	1852.4	22.73	0.18	23.0	0.056	1.064	0.060
	Band IV/RMC	7	Front	1513	1752.6	22.49	-0.09	25.0	0.037	1.782	0.066
26	Band IV/RMC	7	Back	1513	1752.6	22.49	0.05	25.0	0.046	1.782	0.082
	Band V/RMC	7	Front	4183	836.6	23.03	-0.02	23.5	0.146	1.114	0.163
27	Band V/RMC	7	Back	4183	836.6	23.03	-0.10	23.5	0.147	1.114	0.164
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	ANT	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)
28	Band2/1RB#49	7	Front	18700	1860	23.70	-0.04	24.0	0.066	1.072	0.071
	Band2/1RB#49	7	Back	18700	1860	23.70	0.04	24.0	0.064	1.072	0.069
	Band2/50%RB#24	7	Front	19100	1900	22.61	0.17	23.0	0.050	1.094	0.055
	Band2/50%RB#24	7	Back	19100	1900	22.61	-0.20	23.0	0.046	1.094	0.050
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	ANT	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)
	Band5/1RB#24	7	Front	20450	829	23.96	0.01	24.5	0.072	1.132	0.082
29	Band5/1RB#24	7	Back	20450	829	23.96	-0.03	24.5	0.109	1.132	0.123
	Band5/50%RB#12	7	Front	20600	844	22.89	0.06	23.0	0.051	1.026	0.052
	Band5/50%RB#12	7	Back	20600	844	22.89	0.18	23.0	0.079	1.026	0.081
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	ANT	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#49	7	Front	20850	2510	23.77	-0.16	24.0	0.154	1.054	0.162
30	Band7/1RB#49	7	Back	20850	2510	23.77	-0.01	24.0	0.198	1.054	0.209
	Band7/50%RB#0	7	Front	20850	2510	22.64	0.07	23.0	0.130	1.086	0.141
	Band7/50%RB#0	7	Back	20850	2510	22.64	0.05	23.0	0.163	1.086	0.177
	Band7/1RB#49 ENDC	5	Front	20850	2510	21.69	-0.14	22.0	0.113	1.074	0.121
	Band7/1RB#49 ENDC	5	Back	20850	2510	21.69	-0.12	22.0	0.143	1.074	0.154
	Band7/50%RB#0 ENDC	5	Front	20850	2510	20.62	-0.19	21.0	0.100	1.091	0.109
	Band7/50%RB#0 ENDC	5	Back	20850	2510	20.62	0.13	21.0	0.122	1.091	0.133
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	ANT	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	7	Front	23060	704	24.18	0.01	24.5	0.064	1.076	0.069
31	Band12/1RB#0	7	Back	23060	704	24.18	-0.03	24.5	0.097	1.076	0.104
	Band12/50%RB#0	7	Front	23060	704	23.08	-0.04	23.5	0.050	1.102	0.055
	Band12/50%RB#0	7	Back	23060	704	23.08	-0.10	23.5	0.076	1.102	0.084
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	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)
	Band41/1RB#49	7	Front	40620	2593	23.40	-0.08	24.0	0.139	1.148	1.008	0.161
32	Band41/1RB#49	7	Back	40620	2593	23.40	0.17	24.0	0.318	1.148	1.008	0.368
	Band41/50%RB#0	7	Front	40620	2593	22.40	-0.19	22.5	0.110	1.023	1.008	0.113
	Band41/50%RB#0	7	Back	40620	2593	22.40	0.19	22.5	0.253	1.023	1.008	0.261
	Band41/1RB#49 ENDC	5	Front	40620	2593	21.44	-0.09	22.0	0.047	1.138	1.008	0.054
	Band41/1RB#49 ENDC	5	Back	40620	2593	21.44	0.03	22.0	0.066	1.138	1.008	0.076
	Band41/50%RB#49 ENDC	5	Front	40620	2593	20.47	0.12	20.5	0.032	1.007	1.008	0.032
	Band41/50%RB#49 ENDC	5	Back	40620	2593	20.47	-0.07	20.5	0.051	1.007	1.008	0.052
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	ANT	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#99	7	Front	132072	1720	23.66	-0.10	24.0	0.049	1.081	0.053
33	Band66/1RB#99	7	Back	132072	1720	23.66	0.10	24.0	0.076	1.081	0.082
	Band66/50%RB#0	7	Front	132572	1770	22.67	-0.15	23.0	0.038	1.079	0.041
	Band66/50%RB#0	7	Back	132572	1770	22.67	-0.14	23.0	0.059	1.079	0.064
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n5 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n5 DFT-BPSK /1@1 20M	7	Front	167300	836.5	22.93	0.03	23.5	0.153	1.140	0.174
34	NR n5 DFT-BPSK /1@1 20M	7	Back	167300	836.5	22.93	0.01	23.5	0.158	1.140	0.180
	NR n5 DFT-BPSK /25@12 20M	7	Front	167300	836.5	22.98	0.03	23.5	0.150	1.127	0.169
	NR n5 DFT-BPSK /25@12 20M	7	Back	167300	836.5	22.98	-0.18	23.5	0.157	1.127	0.177
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n7 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n7 DFT-BPSK /1@1 20M	7	Front	502000	2510	22.83	-0.06	23.0	0.184	1.040	0.191
35	NR n7 DFT-BPSK /1@1 20M	7	Back	502000	2510	22.83	0.16	23.0	0.520	1.040	0.541
	NR n7 DFT-BPSK /25@12 20M	7	Front	502000	2510	23.02	-0.09	23.5	0.163	1.117	0.182
	NR n7 DFT-BPSK /25@12 20M	7	Back	502000	2510	23.02	0.04	23.5	0.474	1.117	0.529
	NR n7 DFT-BPSK /1@1 20M NSA	7	Front	507000	2535	20.51	0.05	21.0	0.042	1.119	0.047
	NR n7 DFT-BPSK /1@1 20M NSA	7	Back	507000	2535	20.51	0.09	21.0	0.083	1.119	0.093
	NR n7 DFT-BPSK /25@12 20M NSA	7	Front	507000	2535	20.68	-0.09	21.0	0.034	1.076	0.037
	NR n7 DFT-BPSK /25@12 20M NSA	7	Back	507000	2535	20.68	0.01	21.0	0.074	1.076	0.080
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n12 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n12 DFT-BPSK /1@1 15M	7	Front	141300	706.5	23.75	-0.04	24.0	0.046	1.059	0.049
36	NR n12 DFT-BPSK /1@1 15M	7	Back	141300	706.5	23.75	-0.08	24.0	0.082	1.059	0.087
	NR n12 DFT-BPSK /18@9 15M	7	Front	141500	707.5	23.82	-0.11	24.0	0.035	1.042	0.036
	NR n12 DFT-BPSK /18@9 15M	7	Back	141500	707.5	23.82	-0.07	24.0	0.057	1.042	0.059
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n41 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n41 DFT-BPSK /1@1 100M	7	Front	509202	2546.01	24.98	0.05	25.0	0.042	1.005	0.042
	NR n41 DFT-BPSK /1@1 100M	7	Back	509202	2546.01	24.98	-0.01	25.0	0.065	1.005	0.065
	NR n41 DFT-BPSK /135@67 100M	7	Front	509202	2546.01	25.79	0.06	26.5	0.079	1.178	0.093
37	NR n41 DFT-BPSK /135@67 100M	7	Back	509202	2546.01	25.79	-0.08	26.5	0.129	1.178	0.152
	NR n41 DFT-BPSK /1@1 100M NSA	7	Front	518598	2592.99	20.38	0.09	20.5	0.014	1.028	0.014
	NR n41 DFT-BPSK /1@1 100M NSA	7	Back	518598	2592.99	20.38	-0.06	20.5	0.018	1.028	0.019
	NR n41 DFT-BPSK /135@67 100M NSA	7	Front	518598	2592.99	20.31	0.12	20.5	0.029	1.045	0.030
	NR n41 DFT-BPSK /135@67 100M NSA	7	Back	518598	2592.99	20.31	-0.03	20.5	0.035	1.045	0.037
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n66 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n66 DFT-BPSK /1@1 40M	7	Front	352000	1760	22.78	-0.07	23.0	0.223	1.052	0.235
	NR n66 DFT-BPSK /1@1 40M	7	Back	352000	1760	22.78	-0.06	23.0	0.190	1.052	0.200
38	NR n66 DFT-BPSK /50@25 40M	7	Front	349000	1745	23.39	-0.11	23.5	0.248	1.026	0.254
	NR n66 DFT-BPSK /50@25 40M	7	Back	349000	1745	23.39	0.10	23.5	0.199	1.026	0.204
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3450MHz~3550MHz) DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	3	Front	633334	3500.01	26.33	-0.04	26.5	0.050	1.040	0.052
	NR n77 DFT-BPSK /1@1 100M	3	Back	633334	3500.01	26.33	0.11	26.5	0.132	1.040	0.137
	NR n77 DFT-BPSK /135@67 100M	3	Front	633334	3500.01	27.10	-0.08	27.5	0.102	1.107	0.113
39	NR n77 DFT-BPSK /135@67 100M	3	Back	633334	3500.01	27.10	-0.02	27.5	0.139	1.107	0.154
	NR n77 DFT-BPSK /1@1 100M NSA	3	Front	633334	3500.01	20.32	0.09	20.5	0.066	1.042	0.069
	NR n77 DFT-BPSK /1@1 100M NSA	3	Back	633334	3500.01	20.32	-0.11	20.5	0.102	1.042	0.106
	NR n77 DFT-BPSK /135@67 100M NSA	3	Front	633334	3500.01	20.36	-0.14	20.5	0.075	1.033	0.077
	NR n77 DFT-BPSK /135@67 100M NSA	3	Back	633334	3500.01	20.36	-0.11	20.5	0.116	1.033	0.120
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3700MHz~3980MHz) DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@271 100M	3	Front	650000	3750	26.59	0.10	27.0	0.221	1.099	0.243
	NR n77 DFT-BPSK /1@271 100M	3	Back	650000	3750	26.59	0.11	27.0	0.338	1.099	0.371
	NR n77 DFT-BPSK /135@67 100M	3	Front	650000	3750	27.13	0.04	27.5	0.410	1.089	0.446
40	NR n77 DFT-BPSK /135@67 100M	3	Back	650000	3750	27.13	-0.13	27.5	0.564	1.089	0.614
	NR n77 DFT-BPSK /1@271 100M NSA	3	Front	656000	3840	19.85	0.01	20.0	0.062	1.035	0.064
	NR n77 DFT-BPSK /1@271 100M NSA	3	Back	656000	3840	19.85	-0.20	20.0	0.093	1.035	0.096
	NR n77 DFT-BPSK /135@67 100M NSA	3	Front	650000	3750	20.92	0.12	21.0	0.103	1.019	0.105
	NR n77 DFT-BPSK /135@67 100M NSA	3	Back	650000	3750	20.92	0.08	21.0	0.157	1.019	0.160
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)
41	2.4GHz/802.11b	1	Front	11	2462	17.34	0.18	17.5	0.051	1.038	1.000	0.053
	2.4GHz/802.11b	1	Back	11	2462	17.34	0.01	17.5	0.046	1.038	1.000	0.048
	2.4GHz/802.11b	2	Front	1	2412	17.67	0.20	18.0	0.013	1.079	1.000	0.014
	2.4GHz/802.11b	2	Back	1	2412	17.67	0.12	18.0	0.027	1.079	1.000	0.029
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	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)
	5.2GHz/802.11a	1	Front	40	5200	13.87	0.09	14.0	0.006	1.030	1.000	0.006
	5.2GHz/802.11a	1	Back	40	5200	13.87	0.00	14.0	0.015	1.030	1.000	0.015
	5.2GHz/802.11n20	2	Front	36	5180	13.18	-0.20	13.5	0.022	1.076	1.000	0.024
42	5.2GHz/802.11n20	2	Back	36	5180	13.18	0.03	13.5	0.039	1.076	1.000	0.042
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

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)
	5.8GHz/802.11a	1	Front	149	5745	14.04	-0.06	14.5	0.003	1.112	1.000	0.003
	5.8GHz/802.11a	1	Back	149	5745	14.04	0.00	14.5	0.007	1.112	1.000	0.008
	5.8GHz/802.11a	2	Front	149	5745	12.66	-0.09	13.5	0.022	1.213	1.000	0.027
43	5.8GHz/802.11a	2	Back	149	5745	12.66	-0.05	13.5	0.038	1.213	1.000	0.046
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)
44	BT/8DPSK	1	Front	39	2441	7.07	0.01	7.5	0.007	1.104	1.000	0.008
	BT/8DPSK	1	Back	39	2441	7.07	0.07	7.5	0.005	1.104	1.000	0.006
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. 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.
4. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
5. 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.
6. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
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 ≤ 0.8 W/kg.
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.

15.3 Body SAR in Hotspot Mode

➤ GSM 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	Reported SAR _{1g} (W/kg)
	GPRS850/4 slots	7	Front	190	836.6	29.36	0.15	29.5	0.341	1.033	0.352
	GPRS850/4 slots	7	Back	190	836.6	29.36	0.02	29.5	0.384	1.033	0.397
	GPRS850/4 slots	7	Left	190	836.6	29.36	-0.15	29.5	0.113	1.033	0.117
45	GPRS850/4 slots	7	Top	190	836.6	29.36	0.15	29.5	0.393	1.033	0.406
	GPRS1900/4 slots	7	Front	512	1850.2	26.26	0.12	26.5	0.065	1.057	0.069
	GPRS1900/4 slots	7	Back	512	1850.2	26.26	0.06	26.5	0.143	1.057	0.151
	GPRS1900/4 slots	7	Left	512	1850.2	26.26	0.07	26.5	0.198	1.057	0.209
46	GPRS1900/4 slots	7	Top	512	1850.2	26.26	-0.07	26.5	0.282	1.057	0.298
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	ANT	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	7	Front	9262	1852.4	22.73	0.06	23.0	0.044	1.064	0.047
	Band II/RMC	7	Back	9262	1852.4	22.73	0.18	23.0	0.056	1.064	0.060
	Band II/RMC	7	Left	9262	1852.4	22.73	0.10	23.0	0.031	1.064	0.033
47	Band II/RMC	7	Top	9262	1852.4	22.73	-0.17	23.0	0.096	1.064	0.102
	Band IV/RMC	7	Front	1513	1752.6	22.49	-0.09	25.0	0.037	1.782	0.066
	Band IV/RMC	7	Back	1513	1752.6	22.49	0.05	25.0	0.046	1.782	0.082
	Band IV/RMC	7	Left	1513	1752.6	22.49	0.13	25.0	0.021	1.782	0.037
48	Band IV/RMC	7	Top	1513	1752.6	22.49	-0.12	25.0	0.079	1.782	0.141
	Band V/RMC	7	Front	4183	836.6	23.03	-0.02	23.5	0.146	1.114	0.163
	Band V/RMC	7	Back	4183	836.6	23.03	-0.10	23.5	0.147	1.114	0.164
	Band V/RMC	7	Left	4183	836.6	23.03	0.16	23.5	0.057	1.114	0.063
49	Band V/RMC	7	Top	4183	836.6	23.03	0.02	23.5	0.159	1.114	0.177
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	ANT	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)
28	Band2/1RB#49	7	Front	18700	1860	23.70	-0.04	24.0	0.066	1.072	0.071
	Band2/1RB#49	7	Back	18700	1860	23.70	0.04	24.0	0.064	1.072	0.069
	Band2/1RB#49	7	Left	18700	1860	23.70	0.06	24.0	0.018	1.072	0.019
	Band2/1RB#49	7	Top	18700	1860	23.70	-0.12	24.0	0.035	1.072	0.038
	Band2/50%RB#24	7	Front	19100	1900	22.61	0.17	23.0	0.050	1.094	0.055
	Band2/50%RB#24	7	Back	19100	1900	22.61	-0.20	23.0	0.046	1.094	0.050
	Band2/50%RB#24	7	Left	19100	1900	22.61	0.15	23.0	0.013	1.094	0.014
	Band2/50%RB#24	7	Top	19100	1900	22.61	-0.01	23.0	0.027	1.094	0.030
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	ANT	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)
	Band5/1RB#24	7	Front	20450	829	23.96	0.01	24.5	0.072	1.132	0.082
29	Band5/1RB#24	7	Back	20450	829	23.96	-0.03	24.5	0.109	1.132	0.123
	Band5/1RB#24	7	Left	20450	829	23.96	0.02	24.5	0.026	1.132	0.029
	Band5/1RB#24	7	Top	20450	829	23.96	-0.18	24.5	0.049	1.132	0.055
	Band5/50%RB#12	7	Front	20600	844	22.89	0.06	23.0	0.051	1.026	0.052
	Band5/50%RB#12	7	Back	20600	844	22.89	0.18	23.0	0.079	1.026	0.081
	Band5/50%RB#12	7	Left	20600	844	22.89	0.04	23.0	0.018	1.026	0.018
	Band5/50%RB#12	7	Top	20600	844	22.89	-0.17	23.0	0.032	1.026	0.033
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	ANT	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#49	7	Front	20850	2510	23.77	-0.16	24.0	0.154	1.054	0.162
30	Band7/1RB#49	7	Back	20850	2510	23.77	-0.01	24.0	0.198	1.054	0.209
	Band7/1RB#49	7	Left	20850	2510	23.77	0.17	24.0	0.067	1.054	0.071
	Band7/1RB#49	7	Top	20850	2510	23.77	-0.15	24.0	0.112	1.054	0.118
	Band7/50%RB#0	7	Front	20850	2510	22.64	0.07	23.0	0.130	1.086	0.141
	Band7/50%RB#0	7	Back	20850	2510	22.64	0.05	23.0	0.163	1.086	0.177
	Band7/50%RB#0	7	Left	20850	2510	22.64	0.02	23.0	0.049	1.086	0.053
	Band7/50%RB#0	7	Top	20850	2510	22.64	-0.14	23.0	0.095	1.086	0.103
	Band7/1RB#49 ENDC	5	Front	20850	2510	21.69	-0.14	22.0	0.113	1.074	0.121
	Band7/1RB#49 ENDC	5	Back	20850	2510	21.69	-0.12	22.0	0.143	1.074	0.154
	Band7/1RB#49 ENDC	5	Left	20850	2510	21.69	0.03	22.0	0.187	1.074	0.201
	Band7/50%RB#0 ENDC	5	Front	20850	2510	20.62	-0.19	21.0	0.100	1.091	0.109
	Band7/50%RB#0 ENDC	5	Back	20850	2510	20.62	0.13	21.0	0.122	1.091	0.133
	Band7/50%RB#0 ENDC	5	Left	20850	2510	20.62	-0.05	21.0	0.165	1.091	0.180
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	ANT	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)
31	Band12/1RB#0	7	Front	23060	704	24.18	0.01	24.5	0.064	1.076	0.069
	Band12/1RB#0	7	Back	23060	704	24.18	-0.03	24.5	0.097	1.076	0.104
	Band12/1RB#0	7	Left	23060	704	24.18	0.08	24.5	0.012	1.076	0.013
	Band12/1RB#0	7	Top	23060	704	24.18	-0.03	24.5	0.060	1.076	0.065
	Band12/50%RB#0	7	Front	23060	704	23.08	-0.04	23.5	0.050	1.102	0.055
	Band12/50%RB#0	7	Back	23060	704	23.08	-0.10	23.5	0.076	1.102	0.084
	Band12/50%RB#0	7	Left	23060	704	23.08	0.13	23.5	0.008	1.102	0.009
	Band12/50%RB#0	7	Top	23060	704	23.08	0.05	23.5	0.047	1.102	0.052
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	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)
32	Band41/1RB#49	7	Front	40620	2593	23.40	-0.08	24.0	0.139	1.148	1.008	0.161
	Band41/1RB#49	7	Back	40620	2593	23.40	0.17	24.0	0.318	1.148	1.008	0.368
	Band41/1RB#49	7	Left	40620	2593	23.40	0.05	24.0	0.034	1.148	1.008	0.039
	Band41/1RB#49	7	Top	40620	2593	23.40	-0.02	24.0	0.163	1.148	1.008	0.189
	Band41/50%RB#0	7	Front	40620	2593	22.40	-0.19	22.5	0.110	1.023	1.008	0.113
	Band41/50%RB#0	7	Back	40620	2593	22.40	0.19	22.5	0.253	1.023	1.008	0.261
	Band41/50%RB#0	7	Left	40620	2593	22.40	-0.09	22.5	0.022	1.023	1.008	0.023
	Band41/50%RB#0	7	Top	40620	2593	22.40	0.06	22.5	0.124	1.023	1.008	0.128
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	ANT	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)
33	Band66/1RB#99	7	Front	132072	1720	23.66	-0.10	24.0	0.049	1.081	0.053
	Band66/1RB#99	7	Back	132072	1720	23.66	0.10	24.0	0.076	1.081	0.082
	Band66/1RB#99	7	Left	132072	1720	23.66	0.03	24.0	0.020	1.081	0.022
	Band66/1RB#99	7	Top	132072	1720	23.66	0.12	24.0	0.037	1.081	0.040
	Band66/50%RB#0	7	Front	132572	1770	22.67	-0.15	23.0	0.038	1.079	0.041
	Band66/50%RB#0	7	Back	132572	1770	22.67	-0.14	23.0	0.059	1.079	0.064
	Band66/50%RB#0	7	Left	132572	1770	22.67	-0.05	23.0	0.018	1.079	0.019
	Band66/50%RB#0	7	Top	132572	1770	22.67	-0.01	23.0	0.031	1.079	0.033
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n5 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n5 DFT-BPSK /1@1 20M	7	Front	167300	836.5	22.93	0.03	23.5	0.153	1.140	0.174
	NR n5 DFT-BPSK /1@1 20M	7	Back	167300	836.5	22.93	0.01	23.5	0.158	1.140	0.180
	NR n5 DFT-BPSK /1@1 20M	7	Left	167300	836.5	22.93	0.10	23.5	0.072	1.140	0.082
50	NR n5 DFT-BPSK /1@1 20M	7	Top	167300	836.5	22.93	0.01	23.5	0.160	1.140	0.182
	NR n5 DFT-BPSK /25@12 20M	7	Front	167300	836.5	22.98	0.03	23.5	0.150	1.127	0.169
	NR n5 DFT-BPSK /25@12 20M	7	Back	167300	836.5	22.98	-0.18	23.5	0.157	1.127	0.177
	NR n5 DFT-BPSK /25@12 20M	7	Left	167300	836.5	22.98	0.15	23.5	0.066	1.127	0.074
	NR n5 DFT-BPSK /25@12 20M	7	Top	167300	836.5	22.98	-0.07	23.5	0.158	1.127	0.178
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n7 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n7 DFT-BPSK /1@1 20M	7	Front	502000	2510	22.83	-0.06	23.0	0.184	1.040	0.191
35	NR n7 DFT-BPSK /1@1 20M	7	Back	502000	2510	22.83	0.16	23.0	0.520	1.040	0.541
	NR n7 DFT-BPSK /1@1 20M	7	Left	502000	2510	22.83	0.03	23.0	0.231	1.040	0.240
	NR n7 DFT-BPSK /1@1 20M	7	Top	502000	2510	22.83	0.19	23.0	0.222	1.040	0.231
	NR n7 DFT-BPSK /25@12 20M	7	Front	502000	2510	23.02	-0.09	23.5	0.163	1.117	0.182
	NR n7 DFT-BPSK /25@12 20M	7	Back	502000	2510	23.02	0.04	23.5	0.474	1.117	0.529
	NR n7 DFT-BPSK /25@12 20M	7	Left	502000	2510	23.02	0.08	23.5	0.220	1.117	0.246
	NR n7 DFT-BPSK /25@12 20M	7	Top	502000	2510	23.02	0.04	23.5	0.203	1.117	0.227
	NR n7 DFT-BPSK /1@1 20M NSA	7	Front	507000	2535	20.51	0.05	21.0	0.042	1.119	0.047
	NR n7 DFT-BPSK /1@1 20M NSA	7	Back	507000	2535	20.51	0.09	21.0	0.083	1.119	0.093
	NR n7 DFT-BPSK /1@1 20M NSA	7	Left	507000	2535	20.51	0.18	21.0	0.049	1.119	0.055
	NR n7 DFT-BPSK /1@1 20M NSA	7	Top	507000	2535	20.51	-0.16	21.0	0.050	1.119	0.056
	NR n7 DFT-BPSK /25@12 20M NSA	7	Front	507000	2535	20.68	-0.09	21.0	0.034	1.076	0.037
	NR n7 DFT-BPSK /25@12 20M NSA	7	Back	507000	2535	20.68	0.01	21.0	0.074	1.076	0.080
	NR n7 DFT-BPSK /25@12 20M NSA	7	Left	507000	2535	20.68	0.13	21.0	0.038	1.076	0.041
	NR n7 DFT-BPSK /25@12 20M NSA	7	Top	507000	2535	20.68	0.13	21.0	0.041	1.076	0.044
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n12 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n12 DFT-BPSK /1@1 15M	7	Front	141300	706.5	23.75	-0.04	24.0	0.046	1.059	0.049
36	NR n12 DFT-BPSK /1@1 15M	7	Back	141300	706.5	23.75	-0.08	24.0	0.082	1.059	0.087
	NR n12 DFT-BPSK /1@1 15M	7	Left	141300	706.5	23.75	0.00	24.0	0.024	1.059	0.025
	NR n12 DFT-BPSK /1@1 15M	7	Top	141300	706.5	23.75	-0.02	24.0	0.054	1.059	0.057
	NR n12 DFT-BPSK /18@9 15M	7	Front	141500	707.5	23.82	-0.11	24.0	0.035	1.042	0.036
	NR n12 DFT-BPSK /18@9 15M	7	Back	141500	707.5	23.82	-0.07	24.0	0.057	1.042	0.059
	NR n12 DFT-BPSK /18@9 15M	7	Left	141500	707.5	23.82	0.17	24.0	0.016	1.042	0.017
	NR n12 DFT-BPSK /18@9 15M	7	Top	141500	707.5	23.82	-0.04	24.0	0.041	1.042	0.043
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n41 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n41 DFT-BPSK /1@1 100M	7	Front	509202	2546.01	24.98	0.05	25.0	0.042	1.005	0.042
	NR n41 DFT-BPSK /1@1 100M	7	Back	509202	2546.01	24.98	-0.01	25.0	0.065	1.005	0.065
	NR n41 DFT-BPSK /1@1 100M	7	Left	509202	2546.01	24.98	-0.10	25.0	0.019	1.005	0.019
	NR n41 DFT-BPSK /1@1 100M	7	Top	509202	2546.01	24.98	-0.02	25.0	0.036	1.005	0.036
	NR n41 DFT-BPSK /135@67 100M	7	Front	509202	2546.01	25.79	0.06	26.5	0.079	1.178	0.093
37	NR n41 DFT-BPSK /135@67 100M	7	Back	509202	2546.01	25.79	-0.08	26.5	0.129	1.178	0.152
	NR n41 DFT-BPSK /135@67 100M	7	Left	509202	2546.01	25.79	0.03	26.5	0.031	1.178	0.037
	NR n41 DFT-BPSK /135@67 100M	7	Top	509202	2546.01	25.79	-0.10	26.5	0.058	1.178	0.068
	NR n41 DFT-BPSK /1@1 100M NSA	7	Front	518598	2592.99	20.38	0.09	20.5	0.014	1.028	0.014
	NR n41 DFT-BPSK /1@1 100M NSA	7	Back	518598	2592.99	20.38	-0.06	20.5	0.018	1.028	0.019
	NR n41 DFT-BPSK /1@1 100M NSA	7	Left	518598	2592.99	20.38	-0.03	20.5	0.010	1.028	0.010
	NR n41 DFT-BPSK /1@1 100M NSA	7	Top	518598	2592.99	20.38	0.08	20.5	0.012	1.028	0.012
	NR n41 DFT-BPSK /135@67 100M NSA	7	Front	518598	2592.99	20.31	0.12	20.5	0.029	1.045	0.030
	NR n41 DFT-BPSK /135@67 100M NSA	7	Back	518598	2592.99	20.31	-0.03	20.5	0.035	1.045	0.037
	NR n41 DFT-BPSK /135@67 100M NSA	7	Left	518598	2592.99	20.31	0.15	20.5	0.017	1.045	0.018
	NR n41 DFT-BPSK /135@67 100M NSA	7	Top	518598	2592.99	20.31	-0.13	20.5	0.022	1.045	0.023
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n66 DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n66 DFT-BPSK /1@1 40M	7	Front	352000	1760	22.78	-0.07	23.0	0.223	1.052	0.235
	NR n66 DFT-BPSK /1@1 40M	7	Back	352000	1760	22.78	-0.06	23.0	0.190	1.052	0.200
	NR n66 DFT-BPSK /1@1 40M	7	Left	352000	1760	22.78	0.14	23.0	0.122	1.052	0.128
	NR n66 DFT-BPSK /1@1 40M	7	Top	352000	1760	22.78	0.04	23.0	0.357	1.052	0.376
	NR n66 DFT-BPSK /50@25 40M	7	Front	349000	1745	23.39	-0.11	23.5	0.248	1.026	0.254
	NR n66 DFT-BPSK /50@25 40M	7	Back	349000	1745	23.39	0.10	23.5	0.199	1.026	0.204
	NR n66 DFT-BPSK /50@25 40M	7	Left	349000	1745	23.39	-0.01	23.5	0.136	1.026	0.140
51	NR n66 DFT-BPSK /50@25 40M	7	Top	349000	1745	23.39	0.16	23.5	0.371	1.026	0.381
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3450MHz~3550MHz) DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@1 100M	3	Front	633334	3500.01	26.33	-0.04	26.5	0.050	1.040	0.052
	NR n77 DFT-BPSK /1@1 100M	3	Back	633334	3500.01	26.33	0.11	26.5	0.132	1.040	0.137
	NR n77 DFT-BPSK /1@1 100M	3	Right	633334	3500.01	26.33	0.02	26.5	0.080	1.040	0.083
	NR n77 DFT-BPSK /1@1 100M	3	Top	633334	3500.01	26.33	0.01	26.5	0.055	1.040	0.057
	NR n77 DFT-BPSK /135@67 100M	3	Front	633334	3500.01	27.10	-0.08	27.5	0.102	1.107	0.113
39	NR n77 DFT-BPSK /135@67 100M	3	Back	633334	3500.01	27.10	-0.02	27.5	0.139	1.107	0.154
	NR n77 DFT-BPSK /135@67 100M	3	Right	633334	3500.01	27.10	-0.16	27.5	0.065	1.107	0.072
	NR n77 DFT-BPSK /135@67 100M	3	Top	633334	3500.01	27.10	-0.13	27.5	0.053	1.107	0.059
	NR n77 DFT-BPSK /1@1 100M NSA	3	Front	633334	3500.01	20.32	0.09	20.5	0.066	1.042	0.069
	NR n77 DFT-BPSK /1@1 100M NSA	3	Back	633334	3500.01	20.32	-0.11	20.5	0.102	1.042	0.106
	NR n77 DFT-BPSK /1@1 100M NSA	3	Right	633334	3500.01	20.32	0.07	20.5	0.022	1.042	0.023
	NR n77 DFT-BPSK /1@1 100M NSA	3	Top	633334	3500.01	20.32	-0.01	20.5	0.015	1.042	0.016
	NR n77 DFT-BPSK /135@67 100M NSA	3	Front	633334	3500.01	20.36	-0.14	20.5	0.075	1.033	0.077
	NR n77 DFT-BPSK /135@67 100M NSA	3	Back	633334	3500.01	20.36	-0.11	20.5	0.116	1.033	0.120
	NR n77 DFT-BPSK /135@67 100M NSA	3	Right	633334	3500.01	20.36	-0.14	20.5	0.025	1.033	0.026
	NR n77 DFT-BPSK /135@67 100M NSA	3	Top	633334	3500.01	20.36	-0.17	20.5	0.019	1.033	0.020
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) Averaged over 1g					

➤ NR n77(3700MHz~3980MHz) DFT-BPSK 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	Reported SAR _{1g} (W/kg)
	NR n77 DFT-BPSK /1@271 100M	3	Front	650000	3750	26.59	0.10	27.0	0.221	1.099	0.243
	NR n77 DFT-BPSK /1@271 100M	3	Back	650000	3750	26.59	0.11	27.0	0.338	1.099	0.371
	NR n77 DFT-BPSK /1@271 100M	3	Right	650000	3750	26.59	0.00	27.0	0.117	1.099	0.129
	NR n77 DFT-BPSK /1@271 100M	3	Top	650000	3750	26.59	0.15	27.0	0.092	1.099	0.101
	NR n77 DFT-BPSK /135@67 100M	3	Front	650000	3750	27.13	0.04	27.5	0.410	1.089	0.446
40	NR n77 DFT-BPSK /135@67 100M	3	Back	650000	3750	27.13	-0.13	27.5	0.564	1.089	0.614
	NR n77 DFT-BPSK /135@67 100M	3	Right	650000	3750	27.13	-0.18	27.5	0.148	1.089	0.161
	NR n77 DFT-BPSK /135@67 100M	3	Top	650000	3750	27.13	0.07	27.5	0.121	1.089	0.132
	NR n77 DFT-BPSK /1@271 100M NSA	3	Front	656000	3840	19.85	0.01	20.0	0.062	1.035	0.064
	NR n77 DFT-BPSK /1@271 100M NSA	3	Back	656000	3840	19.85	-0.20	20.0	0.093	1.035	0.096
	NR n77 DFT-BPSK /1@271 100M NSA	3	Right	656000	3840	19.85	-0.05	20.0	0.017	1.035	0.018
	NR n77 DFT-BPSK /1@271 100M NSA	3	Top	656000	3840	19.85	0.19	20.0	0.011	1.035	0.011
	NR n77 DFT-BPSK /135@67 100M NSA	3	Front	650000	3750	20.92	0.12	21.0	0.103	1.019	0.105
	NR n77 DFT-BPSK /135@67 100M NSA	3	Back	650000	3750	20.92	0.08	21.0	0.157	1.019	0.160
	NR n77 DFT-BPSK /135@67 100M NSA	3	Right	650000	3750	20.92	0.03	21.0	0.035	1.019	0.036
	NR n77 DFT-BPSK /135@67 100M NSA	3	Top	650000	3750	20.92	-0.17	21.0	0.029	1.019	0.030
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)
41	2.4GHz/802.11b	1	Front	11	2462	17.34	0.18	17.5	0.051	1.038	1.000	0.053
	2.4GHz/802.11b	1	Back	11	2462	17.34	0.01	17.5	0.046	1.038	1.000	0.048
	2.4GHz/802.11b	1	Right	11	2462	17.34	0.10	17.5	0.031	1.038	1.000	0.032
	2.4GHz/802.11b	1	Top	11	2462	17.34	0.10	17.5	0.042	1.038	1.000	0.044
	2.4GHz/802.11b	2	Front	1	2412	17.67	0.20	18.0	0.013	1.079	1.000	0.014
	2.4GHz/802.11b	2	Back	1	2412	17.67	0.12	18.0	0.027	1.079	1.000	0.029
	2.4GHz/802.11b	2	Right	1	2412	17.67	-0.06	18.0	0.035	1.079	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							

➤ WLAN 5.2GHz 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)
	5.2GHz/802.11a	1	Front	40	5200	13.87	0.09	14.0	0.006	1.030	1.000	0.006
	5.2GHz/802.11a	1	Back	40	5200	13.87	0.00	14.0	0.015	1.030	1.000	0.015
	5.2GHz/802.11a	1	Right	40	5200	13.87	0.07	14.0	0.004	1.030	1.000	0.004
	5.2GHz/802.11a	1	Top	40	5200	13.87	0.04	14.0	0.006	1.030	1.000	0.006
42	5.2GHz/802.11n20	2	Front	36	5180	13.18	-0.20	13.5	0.022	1.076	1.000	0.024
	5.2GHz/802.11n20	2	Back	36	5180	13.18	0.03	13.5	0.039	1.076	1.000	0.042
	5.2GHz/802.11n20	2	Right	36	5180	13.18	-0.03	13.5	0.012	1.076	1.000	0.013
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	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)
	5.8GHz/802.11a	1	Front	149	5745	14.04	-0.06	14.5	0.003	1.112	1.000	0.003
	5.8GHz/802.11a	1	Back	149	5745	14.04	0.00	14.5	0.007	1.112	1.000	0.008
	5.8GHz/802.11a	1	Right	149	5745	14.04	0.19	14.5	0.003	1.112	1.000	0.003
	5.8GHz/802.11a	1	Top	149	5745	14.04	0.14	14.5	0.005	1.112	1.000	0.006
43	5.8GHz/802.11a	2	Front	149	5745	12.66	-0.09	13.5	0.022	1.213	1.000	0.027
	5.8GHz/802.11a	2	Back	149	5745	12.66	-0.05	13.5	0.038	1.213	1.000	0.046
	5.8GHz/802.11a	2	Right	149	5745	12.66	0.05	13.5	0.009	1.213	1.000	0.011
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)
44	BT/8DPSK	1	Front	39	2441	7.07	0.01	7.5	0.007	1.104	1.000	0.008
	BT/8DPSK	1	Back	39	2441	7.07	0.07	7.5	0.005	1.104	1.000	0.006
	BT/8DPSK	1	Right	39	2441	7.07	0.17	7.5	0.003	1.104	1.000	0.003
	BT/8DPSK	1	Top	39	2441	7.07	-0.11	7.5	0.004	1.104	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							

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR \leq 0.8W/kg, other channels SAR testing is not necessary.
- Additional WLAN SAR testing was performed for simultaneous transmission analysis.
- For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension \geq 9cm*5cm, 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.
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is < 0.25dB higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is \leq 1.2W/kg, HSDPA SAR evaluation can be excluded.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is \geq 0.8W/kg.
- 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 required.
- 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 W/kg. Otherwise, SAR is measured for the highest output power channel.
- 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.

15.4 Repeated SAR measurement

Band/ Mode	ANT	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
					Original	1 st Repeated		2 nd Repeated	
						Value	Ratio	Value	Ratio
GSM850/Voice	7	Right Cheek	190	836.6	1.090	1.081	1.01	/	/
NR n66 DFT-BPSK /50@25 40M	7	Right Tilted	352000	1760	1.150	1.139	1.01	/	/
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 ≥ 0.8 W/kg
2. Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.

15.5 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 physical test configuration is $\leq 1.6 \text{ W/kg}$. 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.

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

Mode	Max. Power (dBm)	Max. Power (mW)	Exposure Position	Head	Body	Hotspot
NFC	-44.85	0.000033	Estimated SAR (W/kg)	0.000	0.000	0.000
WPT	-39.70	0.000107	Estimated SAR (W/kg)	0.000	0.000	0.000

Note:

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

➤ **Multi-Band simultaneous Transmission Consideration**

Simultaneous Transmission Consideration	Position	Applicable Combination
	Head	WWAN (Voice) + WLAN 2.4G MIMO +NFC/ WPT
		WWAN (Voice) +WLAN 5G MIMO + NFC/ WPT
		WWAN (Voice) + WLAN 2.4 GHz + Bluetooth + NFC/ WPT
	Body	WWAN (Voice) + WLAN 2.4G MIMO + NFC/ WPT
		WWAN (Voice) +WLAN 5G MIMO + NFC/ WPT
		WWAN (Voice) + WLAN 2.4 GHz + Bluetooth + NFC/ WPT
	Hotspot	WWAN (Data) + WLAN 2.4G MIMO + NFC/ WPT
		WWAN (Data) +WLAN 5G MIMO + NFC/ WPT
		WWAN (Data) + WLAN 2.4 GHz + Bluetooth + NFC/ WPT

Note:

1. ANT1: WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.8GHz Band and Bluetooth share the same antenna, and cannot transmit simultaneously.
2. ANT2: WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.8GHz Band share the same antenna, and cannot transmit simultaneously.
3. GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
4. NFC ANT and WPT ANT cannot transmit simultaneously.
5. Per KDB 447498 D04v01 section 2.1.2: 1-mW Test Exemption, SAR simultaneous transmission consideration for NFC is not required.
6. The Report SAR summation is calculated based on the same configuration and test position.
7. Per KDB 447498 D04v01, simultaneous transmission SAR is compliant if,
 - i. Scalar SAR summation < 1.6 W/kg.
 - ii. SPLSR = $(\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan If SPLSR ≤ 0.04 , simultaneously transmission SAR measurement is not necessary
 - iii. Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

15.6 SAR Simultaneous Transmission Analysis

➤ Simultaneous Transmission

Position		Standalone SAR _{1g} (W/kg)		Σ SAR _{1g} (W/kg) Max EN-DC
		LTE Band 5	NR n7 NSA	
Head	Right Cheek	0.465	0.117	0.582
	Right Tilted	0.400	0.090	0.490
	Left Cheek	0.327	0.093	0.420
	Left Tilted	0.230	0.074	0.304
Body- worn	Front	0.082	0.047	0.129
	Back	0.123	0.093	0.216
Hotspot	Front	0.082	0.047	0.129
	Back	0.123	0.093	0.216
	Left	0.029	0.055	0.084
	Right	/	/	/
	Top	0.055	0.056	0.111
	Bottom	/	/	/

Position		Standalone SAR _{1g} (W/kg)			Σ SAR _{1g} (W/kg) Max EN-DC
		LTE Band 5	LTE Band 41 EN-DC	NR n41 NSA	
Head	Right Cheek	0.465	0.181	0.067	0.532
	Right Tilted	0.400	0.052	0.054	0.454
	Left Cheek	0.327	0.089	0.046	0.373
	Left Tilted	0.230	0.022	0.039	0.269
Body- worn	Front	0.082	0.054	0.030	0.112
	Back	0.123	0.076	0.037	0.160
Hotspot	Front	0.082	0.054	0.030	0.112
	Back	0.123	0.076	0.037	0.160
	Left	0.029	0.080	0.018	0.098
	Right	/	/	/	/
	Top	0.055	/	0.023	0.078
	Bottom	/	/	/	/

Position		Standalone SAR _{1g} (W/kg)						Σ SAR _{1g} (W/kg)
		LTE Band 2	LTE Band 5	LTE Band 7 EN-DC	LTE Band 41(38) EN-DC	LTE Band 66(4)	NR n77(n78) NSA	
Head	Right Cheek	0.228	0.465	0.296	0.181	0.405	0.091	0.556
	Right Tilted	0.283	0.400	0.130	0.052	0.338	0.068	0.468
	Left Cheek	0.132	0.327	0.229	0.089	0.312	0.145	0.472
	Left Tilted	0.189	0.230	0.098	0.022	0.264	0.104	0.368
Body-worn	Front	0.071	0.082	0.121	0.054	0.053	0.105	0.226
	Back	0.069	0.123	0.154	0.076	0.082	0.160	0.314
Hotspot	Front	0.071	0.082	0.121	0.054	0.053	0.105	0.226
	Back	0.069	0.123	0.154	0.076	0.082	0.160	0.314
	Left	0.019	0.029	0.201	0.080	0.022	/	0.201
	Right	/	/	/	/	/	0.036	0.036
	Top	0.038	0.055	/	/	0.040	0.030	0.085
	Bottom	/	/	/	/	/	/	/

Position		Max Standalone SAR _{1g} (W/kg)						Σ SAR _{1g} (W/kg)		
		1	2	3	4	5	6	1+2+3+6	1+2+5+6	1+4+6
		MAX WWAN	2.4G ANT 1	2.4G ANT 2	5G MIMO	BT	NFC			
Head	Right Cheek	1.184	0.085	0.136	0.201	0.004	0.000	1.405	1.273	1.389
	Right Tilted	1.190	0.069	0.033	0.161	0.003	0.000	1.292	1.262	1.354
	Left Cheek	0.783	0.157	0.187	0.346	0.006	0.000	1.127	0.946	1.135
	Left Tilted	0.788	0.107	0.063	0.235	0.004	0.000	0.958	0.899	1.027
Body-worn	Front	0.446	0.053	0.014	0.030	0.008	0.000	0.513	0.507	0.484
	Back	0.614	0.048	0.029	0.057	0.006	0.000	0.691	0.668	0.677
Hotspot	Front	0.446	0.053	0.014	0.030	0.008	0.000	0.513	0.507	0.484
	Back	0.614	0.048	0.029	0.057	0.006	0.000	0.691	0.668	0.677
	Left	0.246	/	/	/	/	0.000	0.246	0.246	0.246
	Right	0.161	0.032	0.038	0.017	0.003	0.000	0.231	0.196	0.181
	Top	0.406	0.044	/	0.006	0.004	0.000	0.450	0.454	0.416
	Bottom	/	/	/	/	/	0.000	0.000	0.000	0.000

Position		Max Standalone SAR _{1g} (W/kg)						Σ SAR _{1g} (W/kg)		
		1	2	3	4	5	6	1+2+3+6	1+2+5+6	1+4+6
		MAX WWAN	2.4G ANT 1	2.4G ANT 2	5G MIMO	BT	WPT			
Head	Right Cheek	1.184	0.085	0.136	0.201	0.004	0.000	1.405	1.273	1.389
	Right Tilted	1.190	0.069	0.033	0.161	0.003	0.000	1.292	1.262	1.354
	Left Cheek	0.783	0.157	0.187	0.346	0.006	0.000	1.127	0.946	1.135
	Left Tilted	0.788	0.107	0.063	0.235	0.004	0.000	0.958	0.899	1.027
Body-worn	Front	0.446	0.053	0.014	0.030	0.008	0.000	0.513	0.507	0.484
	Back	0.614	0.048	0.029	0.057	0.006	0.000	0.691	0.668	0.677
Hotspot	Front	0.446	0.053	0.014	0.030	0.008	0.000	0.513	0.507	0.484
	Back	0.614	0.048	0.029	0.057	0.006	0.000	0.691	0.668	0.677
	Left	0.246	/	/	/	/	0.000	0.246	0.246	0.246
	Right	0.161	0.032	0.038	0.017	0.003	0.000	0.231	0.196	0.181
	Top	0.406	0.044	/	0.006	0.004	0.000	0.450	0.454	0.416
	Bottom	/	/	/	/	/	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.

15.7 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 IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

15.8 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.

16 Reference

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- [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: 01.12.2023

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

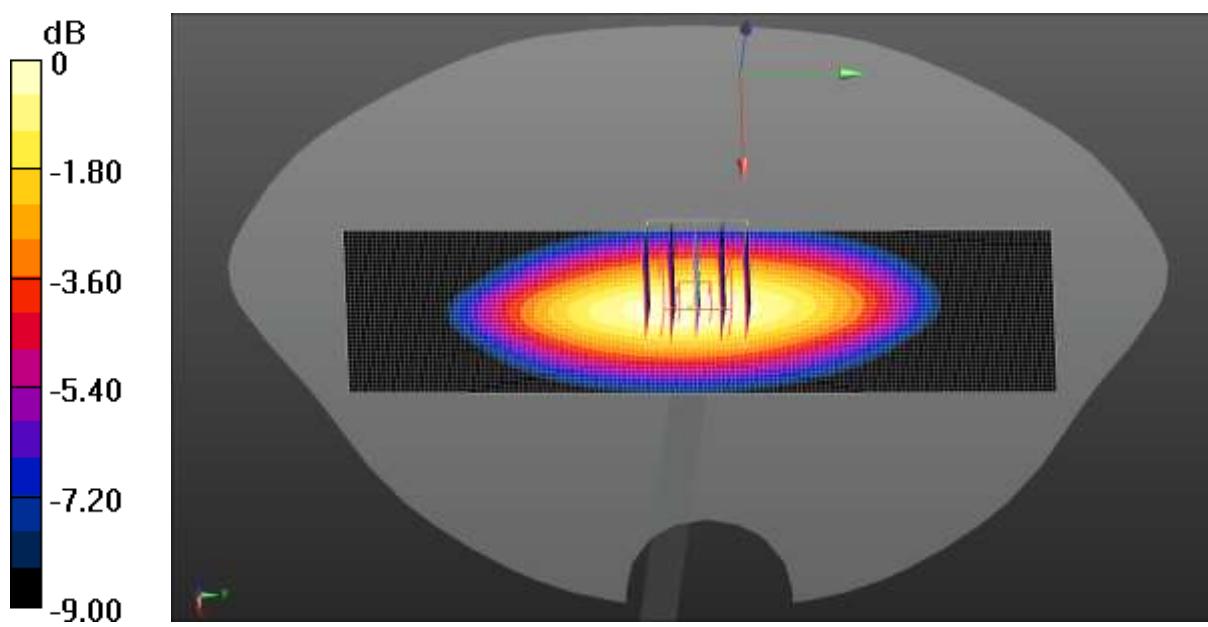
Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 40.199$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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) = 0.946 W/kg

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.01 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.681 W/kg; SAR(10 g) = 0.443 W/kg
Smallest distance from peaks to all points 3 dB below = 17.6 mm
Ratio of SAR at M2 to SAR at M1 = 62%
Maximum value of SAR (measured) = 0.944 W/kg



Test Laboratory: JYTSZ

Date: 01.12.2023

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: $f = 835 \text{ MHz}$; $\sigma = 0.916 \text{ S/m}$; $\epsilon_r = 39.982$; $\rho = 1000 \text{ kg/m}^3$
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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**System Performance Check at Frequency 835 MHz Head Tissue/d=15mm,
Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0:** Measurement
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.22 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.506W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 62.5%

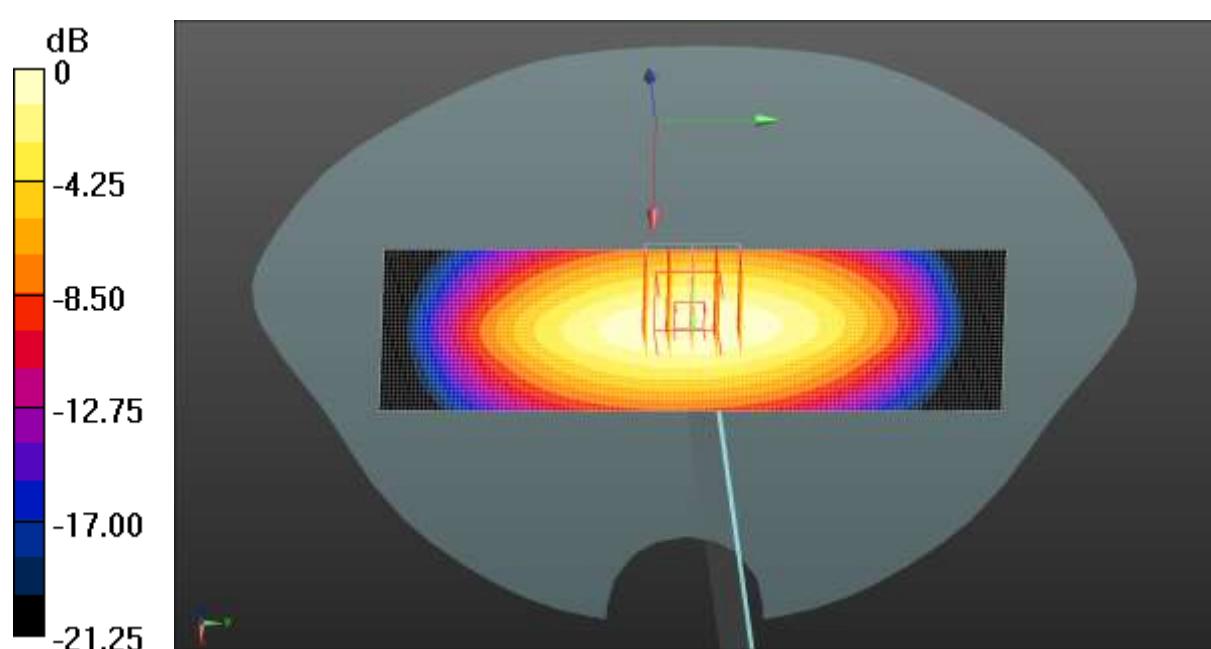
Maximum value of SAR (measured) = 1.03 W/kg

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 mm, dy=1.500 mm

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



$$0 \text{ dB} = 1.04 \text{ W/kg} = 0.17 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.13.2023

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: $f = 1750 \text{ MHz}$; $\sigma = 1.330 \text{ S/m}$; $\epsilon_r = 38.478$; $\rho = 1000 \text{ kg/m}^3$
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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 41.11 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 1.522 W/kg; SAR(10 g) = 0.802 W/kg

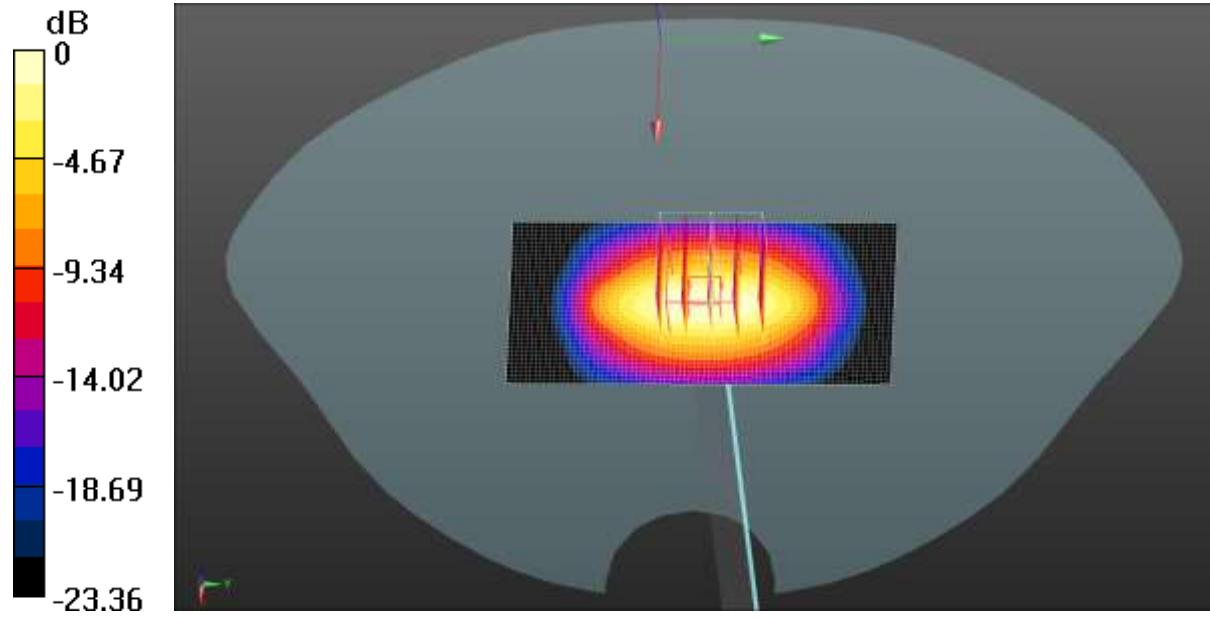
Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 2.25 W/kg

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) = 2.31 W/kg



$$0 \text{ dB} = 2.31 \text{ W/kg} = 3.64 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.13.2023

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: $f = 1900 \text{ MHz}$; $\sigma = 1.368 \text{ S/m}$; $\epsilon_r = 38.739$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 43.02 V/m; Power Drift = 0.00 dB

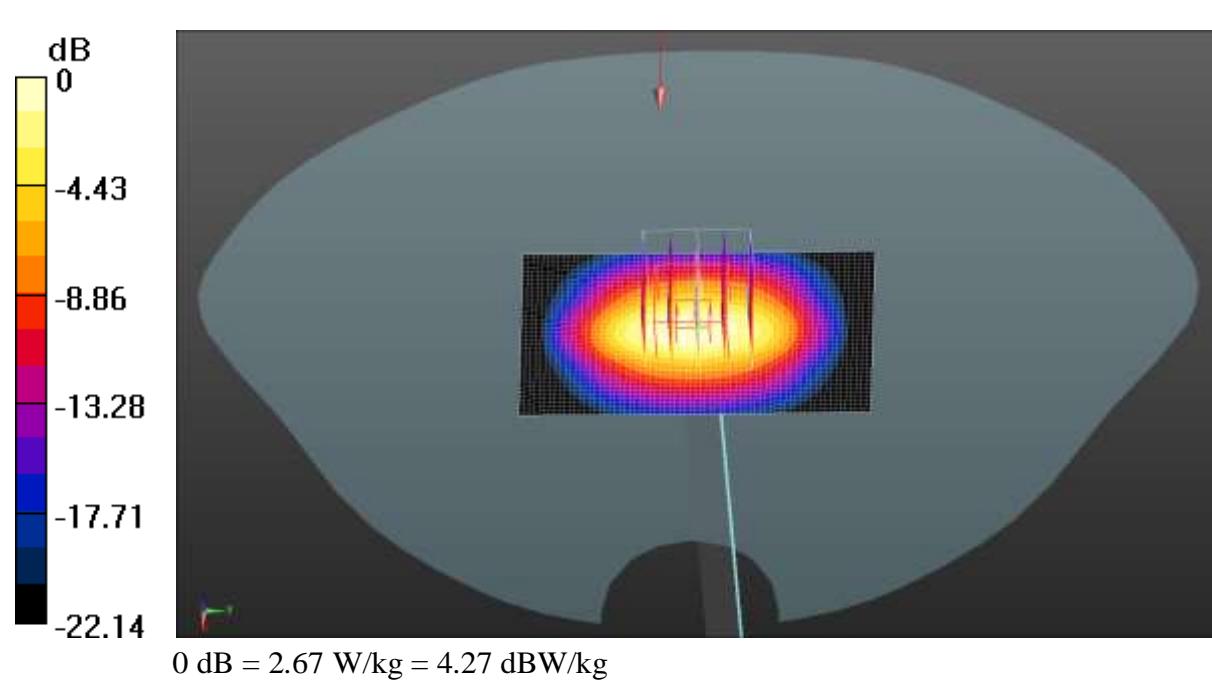
Peak SAR (extrapolated) = 3.09 W/kg

SAR(1 g) = 1.55 W/kg; SAR(10 g) = 0.832 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 2.49 W/kg

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) = 2.67 W/kg

Test Laboratory: JYTSZ

Date: 01.16.2023

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: $f = 2450 \text{ MHz}$; $\sigma = 1.722 \text{ S/m}$; $\epsilon_r = 37.75$; $\rho = 1000 \text{ kg/m}^3$
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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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 = 41.14 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 1.954 W/kg; SAR(10 g) = 0.901 W/kg

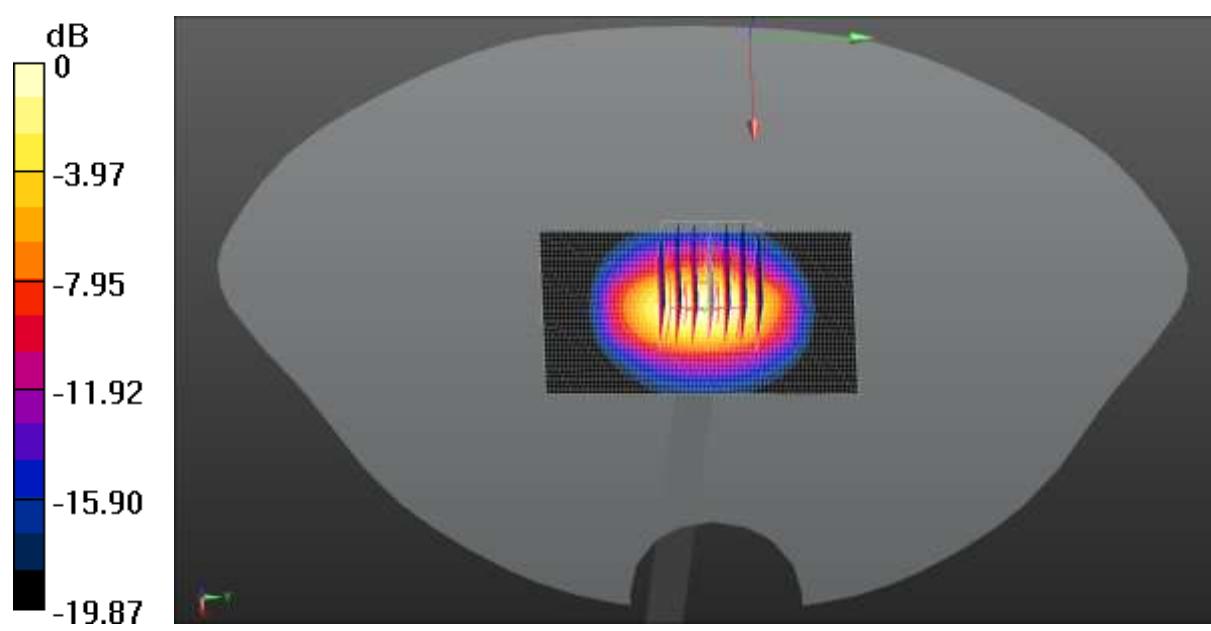
Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 47.4%

Maximum value of SAR (measured) = 3.19 W/kg

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) = 3.24 W/kg



Test Laboratory: JYTSZ

Date: 01.16.2023

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

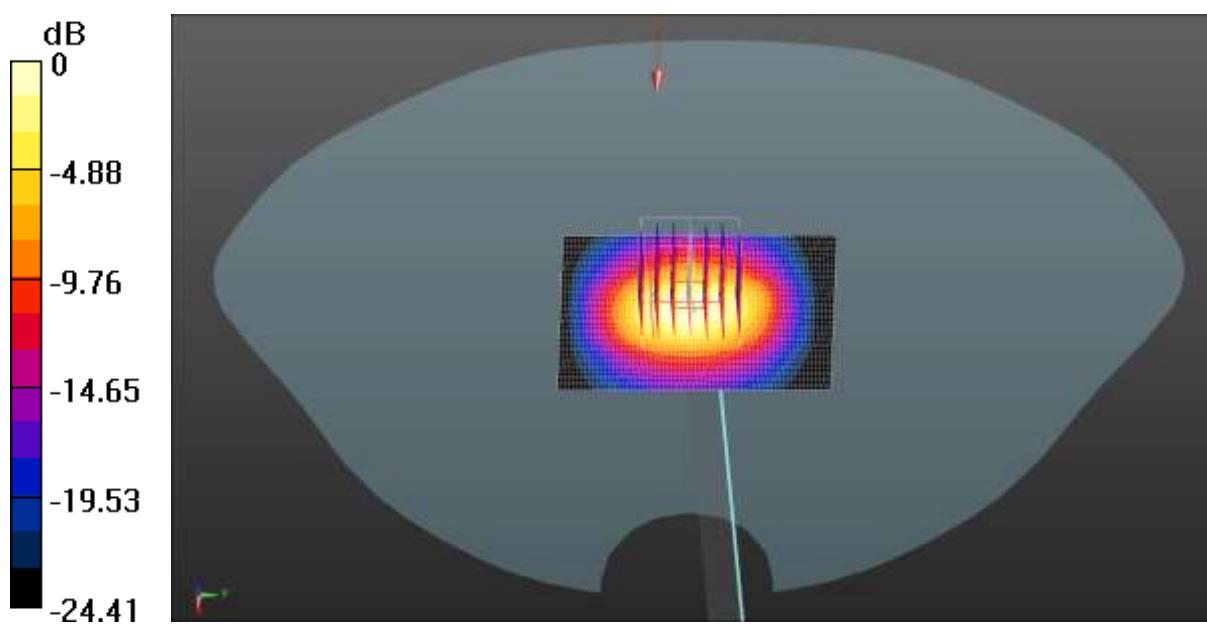
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.874 \text{ S/m}$; $\epsilon_r = 37.75$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

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) = 3.92 W/kg

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 = 43.38 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 4.78 W/kg
SAR(1 g) = 2.09 W/kg; SAR(10 g) = 0.982 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 46.3%
Maximum value of SAR (measured) = 3.79 W/kg



Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: SN:1118

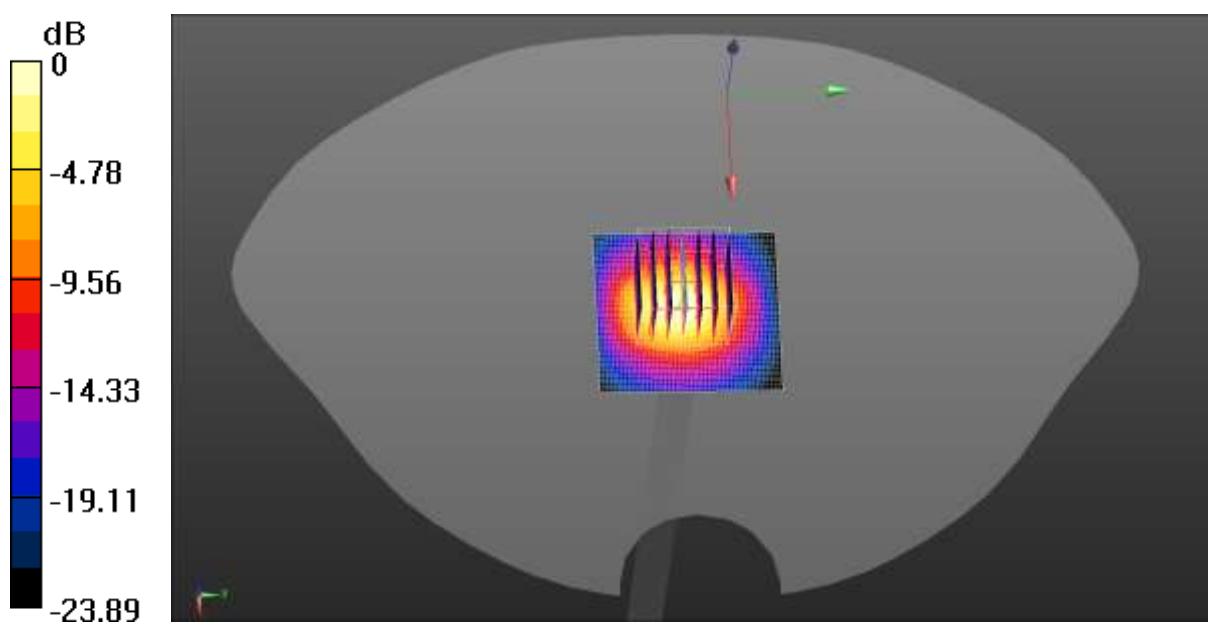
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3500 \text{ MHz}$; $\sigma = 2.892 \text{ S/m}$; $\epsilon_r = 37.144$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.02, 7.02, 7.02) @ 3500 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 3500 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 5.08 W/kg

System Performance Check at Frequency 3500 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=4mm
Reference Value = 41.99 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 6.89 W/kg
SAR(1 g) = 2.62 W/kg; SAR(10 g) = 0.983 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 36.8%
Maximum value of SAR (measured) = 5.10 W/kg



Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: SN:1089

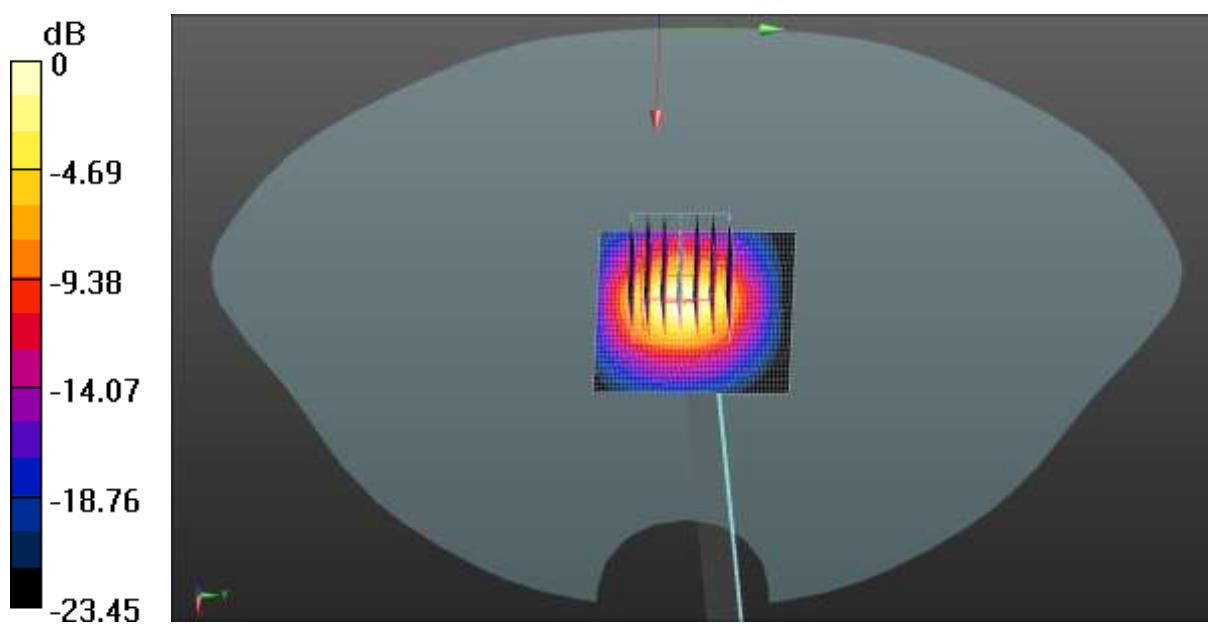
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 3.075 \text{ S/m}$; $\epsilon_r = 36.846$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(6.75, 6.75, 6.75) @ 3700 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 3700 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 5.25 W/kg

System Performance Check at Frequency 3700 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=4mm
Reference Value = 38.03 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 7.23 W/kg
SAR(1 g) = 2.58 W/kg; SAR(10 g) = 0.981 W/kg
Smallest distance from peaks to all points 3 dB below = 8.2 mm
Ratio of SAR at M2 to SAR at M1 = 35.1%
Maximum value of SAR (measured) = 5.33 W/kg



$$0 \text{ dB} = 5.33 \text{ W/kg} = 7.27 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: SN:1064

Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.272 \text{ S/m}$; $\epsilon_r = 36.805$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(6.62, 6.62, 6.62) @ 3900 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 3900 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=4mm

Reference Value = 43.63 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 7.79 W/kg

SAR(1 g) = 2.81 W/kg; SAR(10 g) = 0.998 W/kg

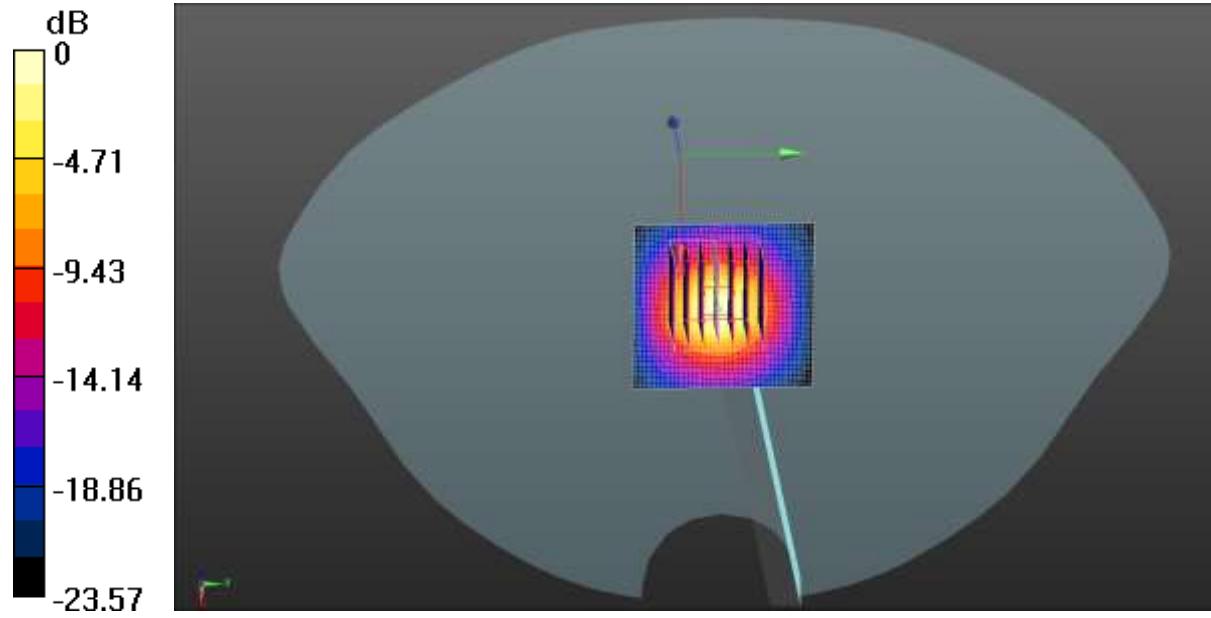
Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 35.4%

Maximum value of SAR (measured) = 5.75 W/kg

System Performance Check at Frequency 3900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 5.86 W/kg



Test Laboratory: JYTSZ

Date: 01.27.2023

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1182

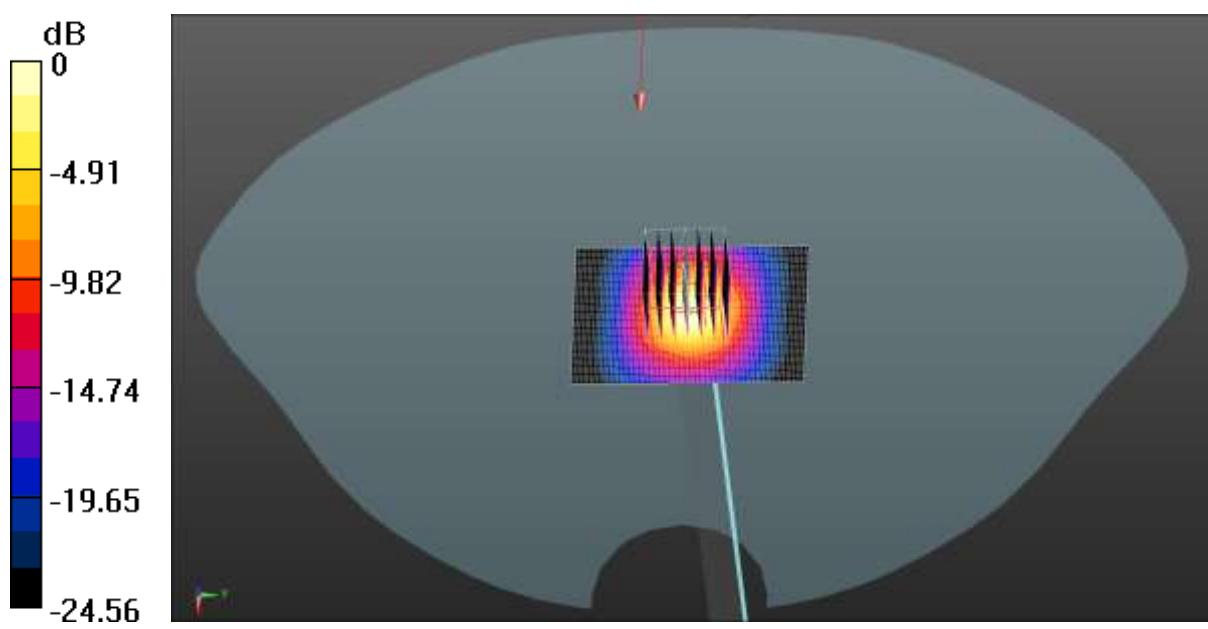
Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.765 \text{ S/m}$; $\epsilon_r = 36.325$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 5200 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.37 W/kg

System Performance Check at Frequency 5200 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 47.35 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 12.9 W/kg
SAR(1 g) = 3.02 W/kg; SAR(10 g) = 0.848 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 22.1%
Maximum value of SAR (measured) = 7.59 W/kg



Test Laboratory: JYTSZ

Date: 01.27.2023

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1182

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.453 \text{ S/m}$; $\epsilon_r = 35.329$; $\rho = 1000 \text{ kg/m}^3$
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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System Performance Check at Frequency 5800 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 45.24 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 14.8 W/kg

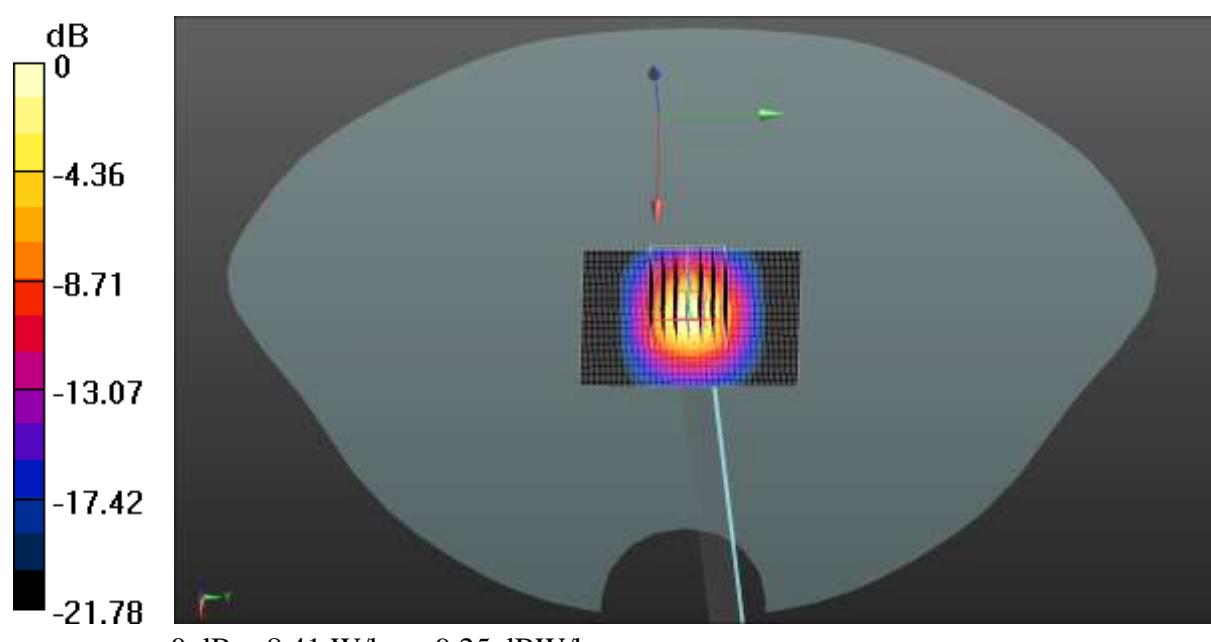
SAR(1 g) = 3.09 W/kg; SAR(10 g) = 0.843 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 17.6%

Maximum value of SAR (measured) = 7.82 W/kg

System Performance Check at Frequency 5800 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.41 W/kg



$$0 \text{ dB} = 8.41 \text{ W/kg} = 9.25 \text{ dBW/kg}$$

Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right 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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 850 Right Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.30 W/kg

GSM 850 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 = 28.21 V/m; Power Drift = 0.18 dB

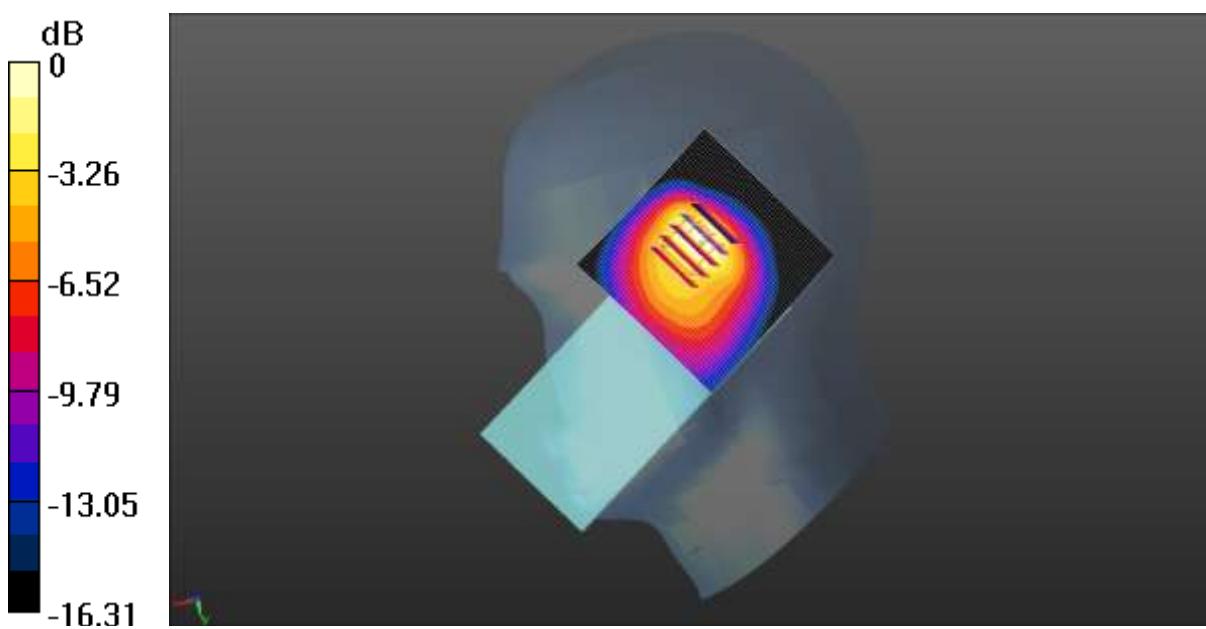
Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.636 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 37.2%

Maximum value of SAR (measured) = 1.95 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.341 \text{ S/m}$; $\epsilon_r = 38.335$; $\rho = 1000 \text{ kg/m}^3$

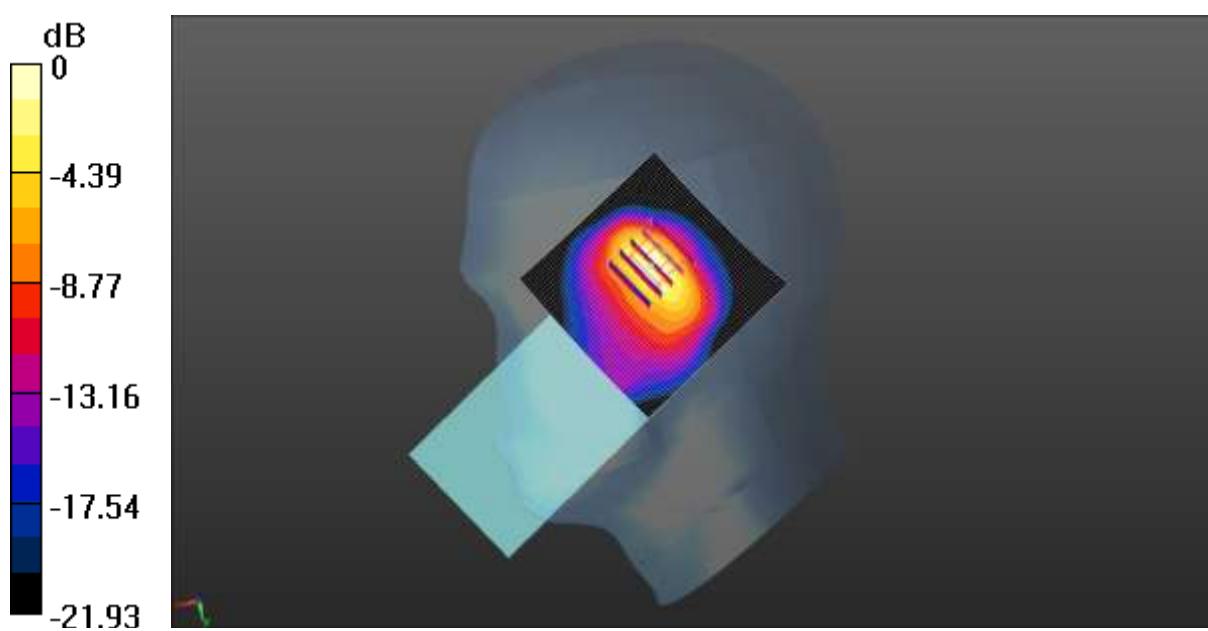
Phantom section: Right Section

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 1900 Right Tilted/Low Channel/Area Scan (51x51x1): Interpolated grid:
 $dx=1.5000 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.368 W/kg

GSM 1900 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 = 10.75 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.413 W/kg
SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.088 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 50.6%
Maximum value of SAR (measured) = 0.324 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.342 \text{ S/m}$; $\epsilon_r = 38.491$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1900 Right Tilted/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.457 W/kg

WCDMA 1900 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 = 13.10 V/m; Power Drift = -0.02 dB

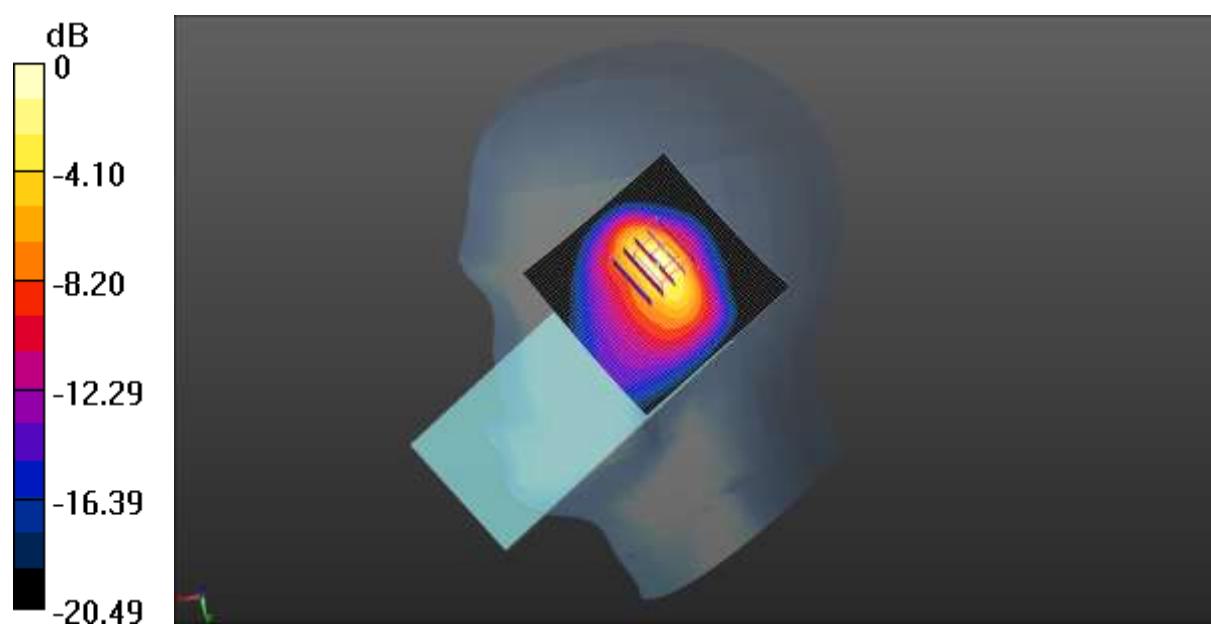
Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.119 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 0.458 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.331 \text{ S/m}$; $\epsilon_r = 38.475$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1752.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Right Tilted/High Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.362 W/kg

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

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

Reference Value = 11.86 V/m; Power Drift = 0.02 dB

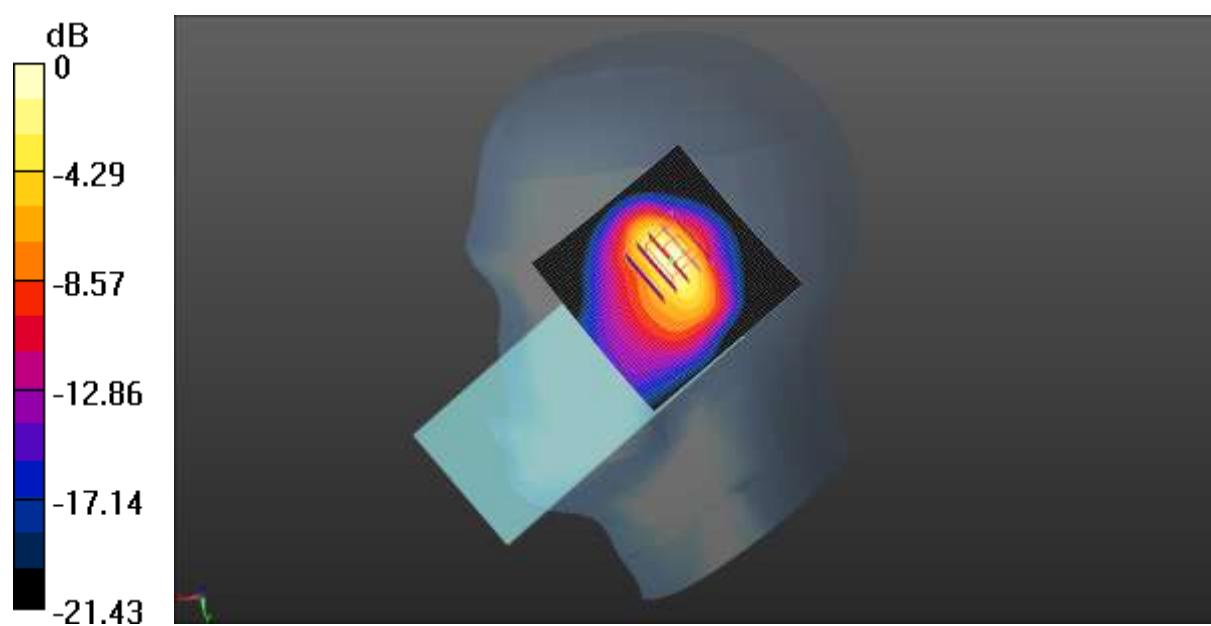
Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.102 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.3%

Maximum value of SAR (measured) = 0.380 W/kg



0 dB = 0.380 W/kg = -4.20 dBW/kg

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right 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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 850 Right Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.14 W/kg

WCDMA 850 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 = 18.63 V/m; Power Drift = 0.05 dB

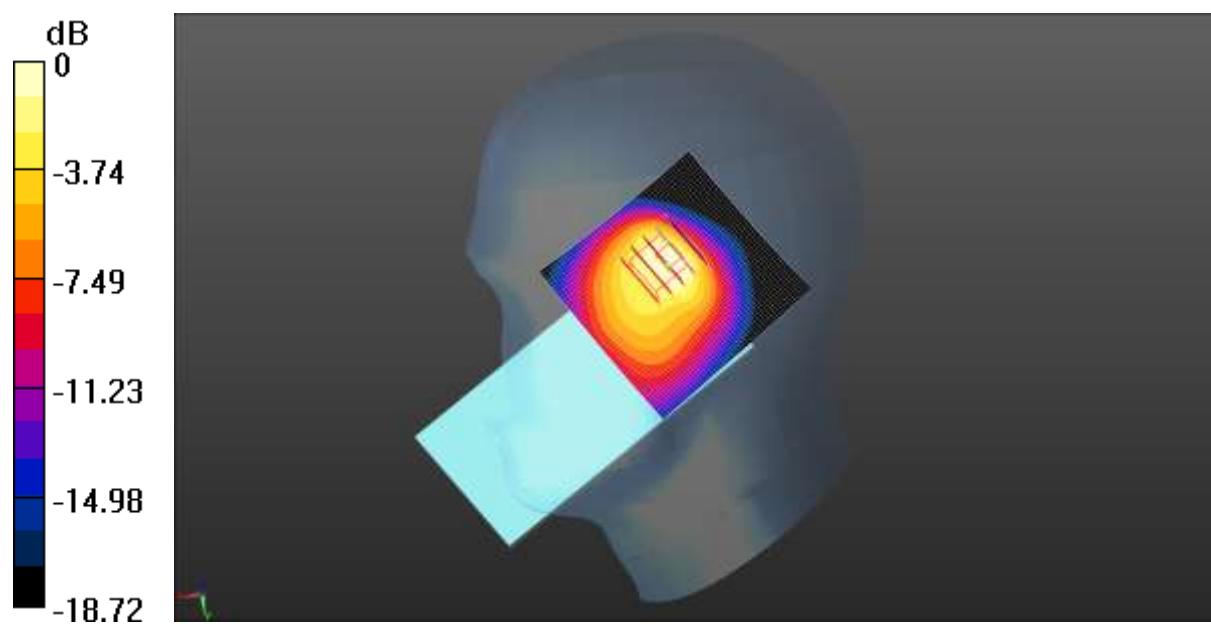
Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.304 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 34.4%

Maximum value of SAR (measured) = 0.905 W/kg



$$0 \text{ dB} = 0.905 \text{ W/kg} = -0.43 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.356 \text{ S/m}$; $\epsilon_r = 38.771$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.434 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 = 11.68 V/m; Power Drift = -0.19 dB

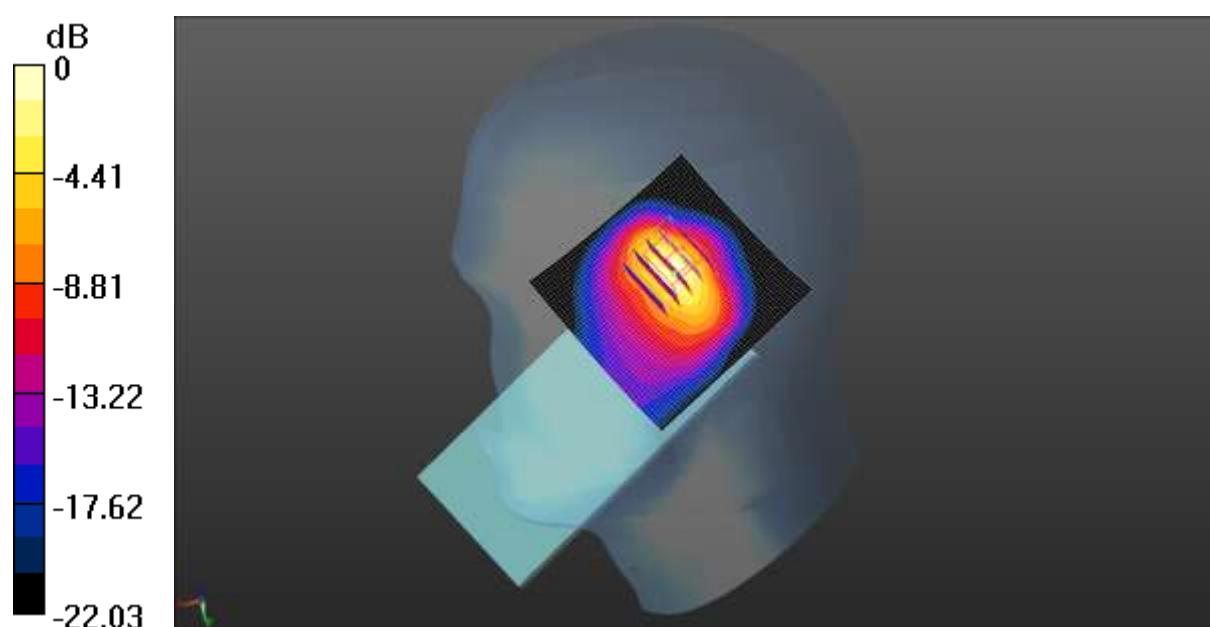
Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.117 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.4%

Maximum value of SAR (measured) = 0.464 W/kg



Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 829 \text{ MHz}$; $\sigma = 0.916 \text{ S/m}$; $\epsilon_r = 39.985$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 5 1RB(10MHz) Right Cheek/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.860 W/kg

LTE Band 5 1RB(10MHz) Right Cheek/Low Channel/Zoom Scan

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

Reference Value = 16.37 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.242 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 36.6%

Maximum value of SAR (measured) = 0.710 W/kg



Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 2510 \text{ MHz}$; $\sigma = 1.812 \text{ S/m}$; $\epsilon_r = 37.859$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 7 1RB(20MHz) Right Cheek/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.433 W/kg

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

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

Reference Value = 2.899 V/m; Power Drift = 0.06 dB

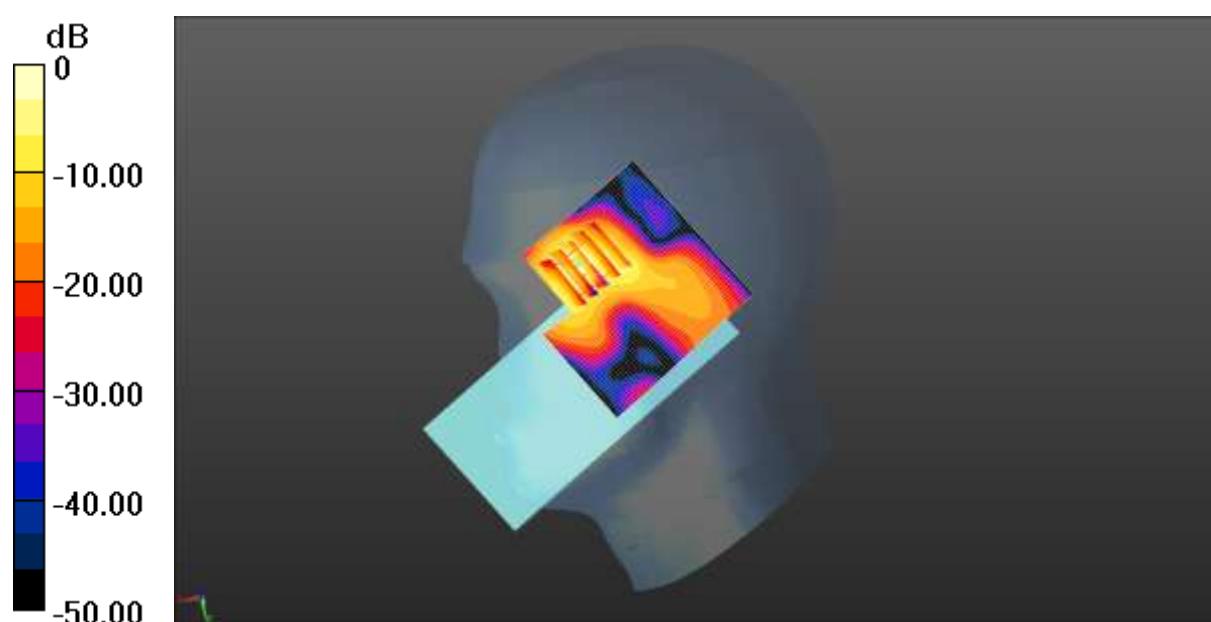
Peak SAR (extrapolated) = 0.686 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.107 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 0.547 W/kg



0 dB = 0.547 W/kg = -2.62 dBW/kg

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 40.51$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 12 1RB(10MHz) Right Cheek/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.500 W/kg

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

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

Reference Value = 14.33 V/m; Power Drift = 0.09 dB

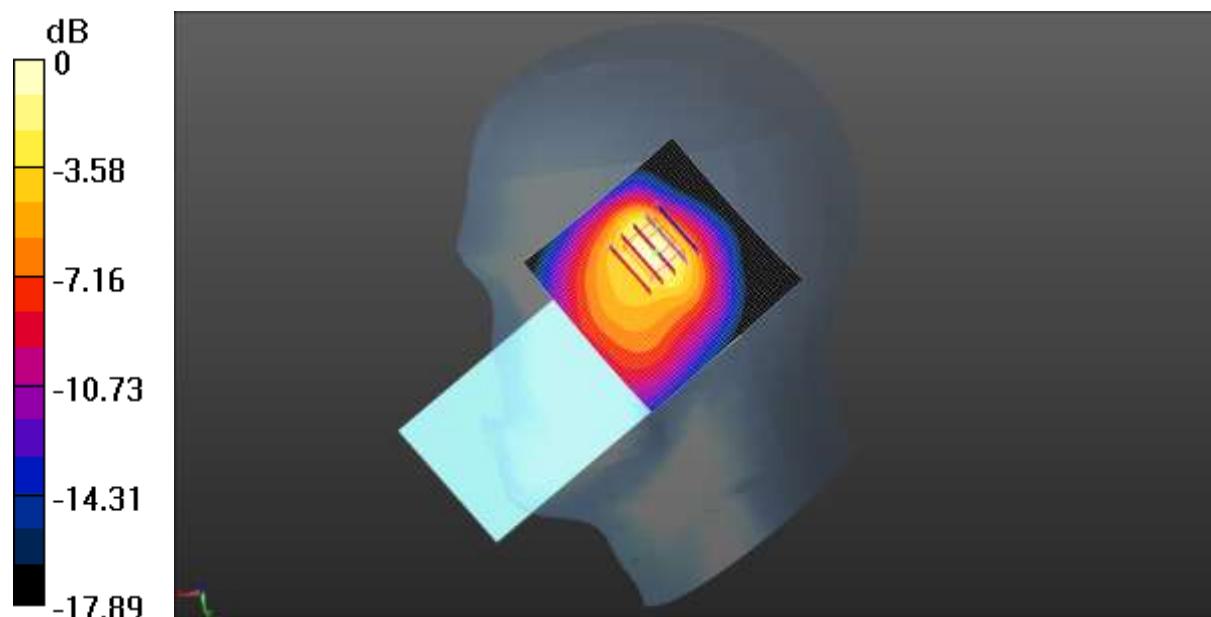
Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.155 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 36.1%

Maximum value of SAR (measured) = 0.513 W/kg



0 dB = 0.513 W/kg = -2.90 dBW/kg

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2593 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 37.761$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(7.35, 7.35, 7.35) @ 2593 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 41 1RB(20MHz) Right Cheek/Middle Channel/Area Scan

(51x51x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.859 W/kg

LTE Band 41 1RB(20MHz) Right Cheek/Middle Channel/Zoom Scan

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

Reference Value = 7.449 V/m; Power Drift = -0.07 dB

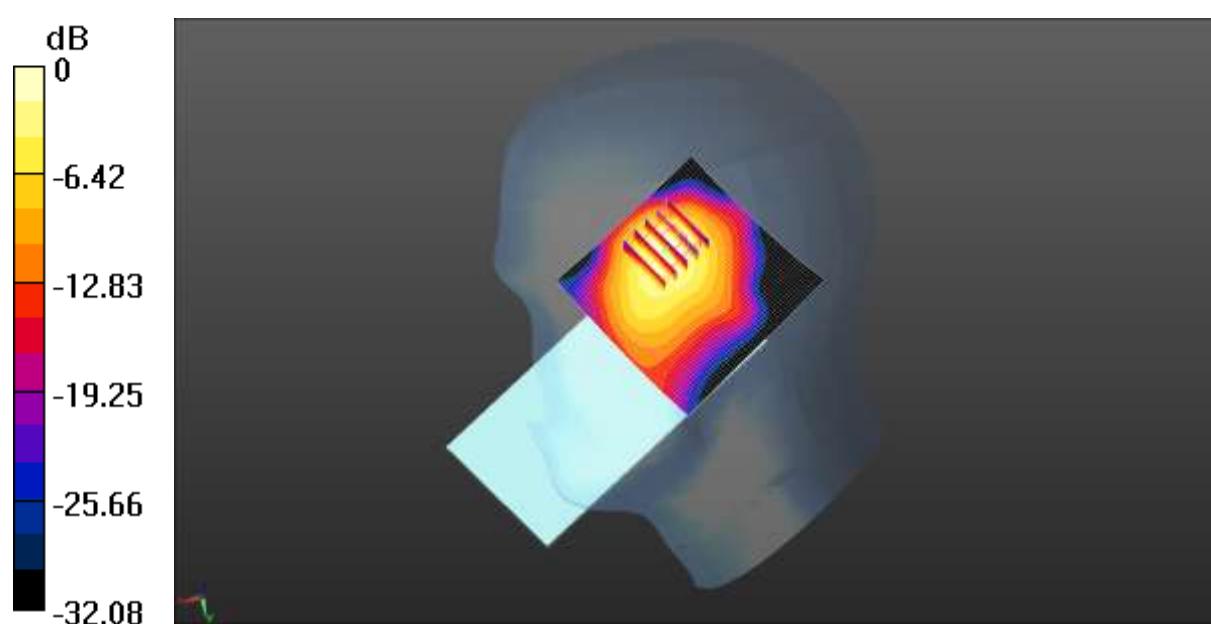
Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.186 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 41%

Maximum value of SAR (measured) = 0.735 W/kg



0 dB = 0.735 W/kg = -1.34 dBW/kg

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1720 \text{ MHz}$; $\sigma = 1.329 \text{ S/m}$; $\epsilon_r = 38.486$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1720 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 1RB(20MHz) Right Tilted/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.670 W/kg

LTE Band 66 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 = 14.76 V/m; Power Drift = 0.08 dB

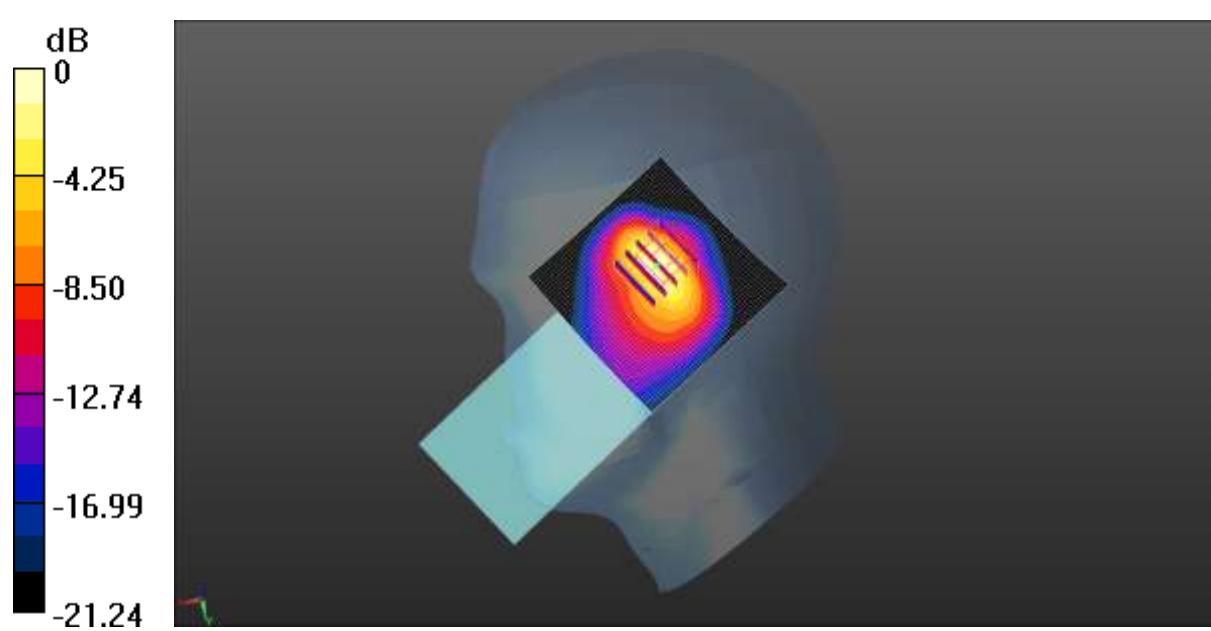
Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.173 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 0.635 W/kg



0 dB = 0.635 W/kg = -1.97 dBW/kg

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(9.8, 9.8, 9.8) @ 836.5 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n5 50%RB(20MHz) Right Cheek/Middle Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.22 W/kg

NR n5 50%RB(20MHz) 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 = 21.94 V/m; Power Drift = 0.02 dB

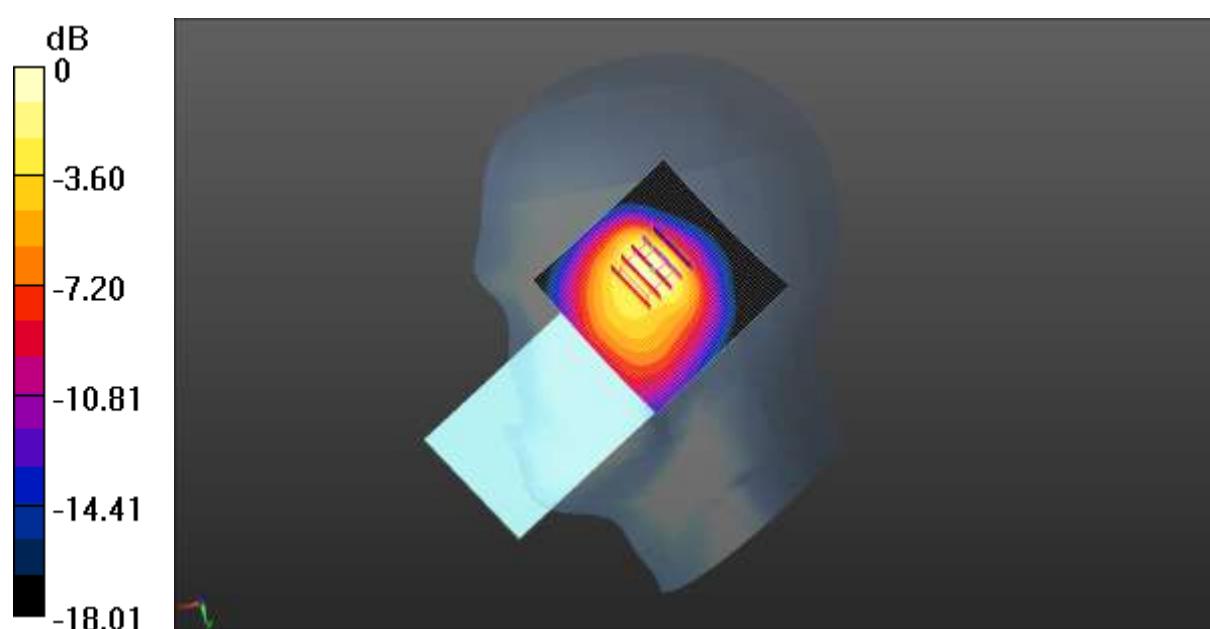
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.351 W/kg

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

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

Maximum value of SAR (measured) = 1.03 W/kg



Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(9.8, 9.8, 9.8) @ 836.5 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n5 50%RB(20MHz) Right Cheek/Middle Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.22 W/kg

NR n5 50%RB(20MHz) 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 = 21.94 V/m; Power Drift = 0.02 dB

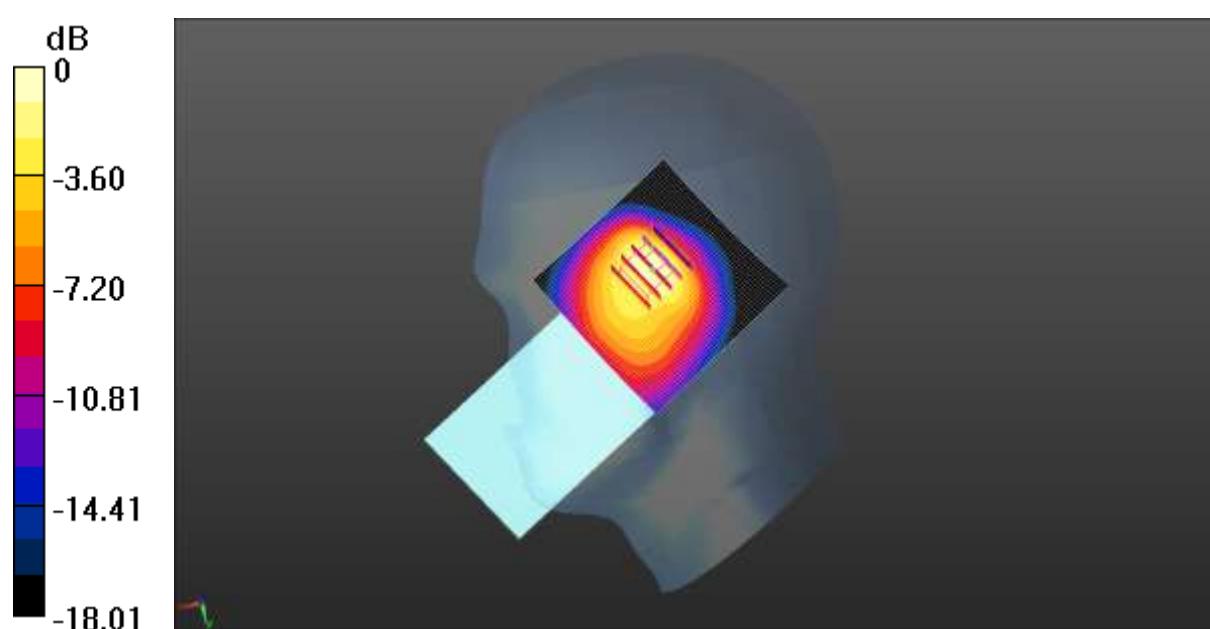
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.351 W/kg

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

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

Maximum value of SAR (measured) = 1.03 W/kg



$$0 \text{ dB} = 1.03 \text{ W/kg} = 0.13 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2510 \text{ MHz}$; $\sigma = 1.812 \text{ S/m}$; $\epsilon_r = 37.859$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n7 50%RB(20MHz) Right Cheek/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.553 W/kg

NR n7 50%RB(20MHz) Right Cheek/Low Channel/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.013 V/m; Power Drift = -0.09 dB

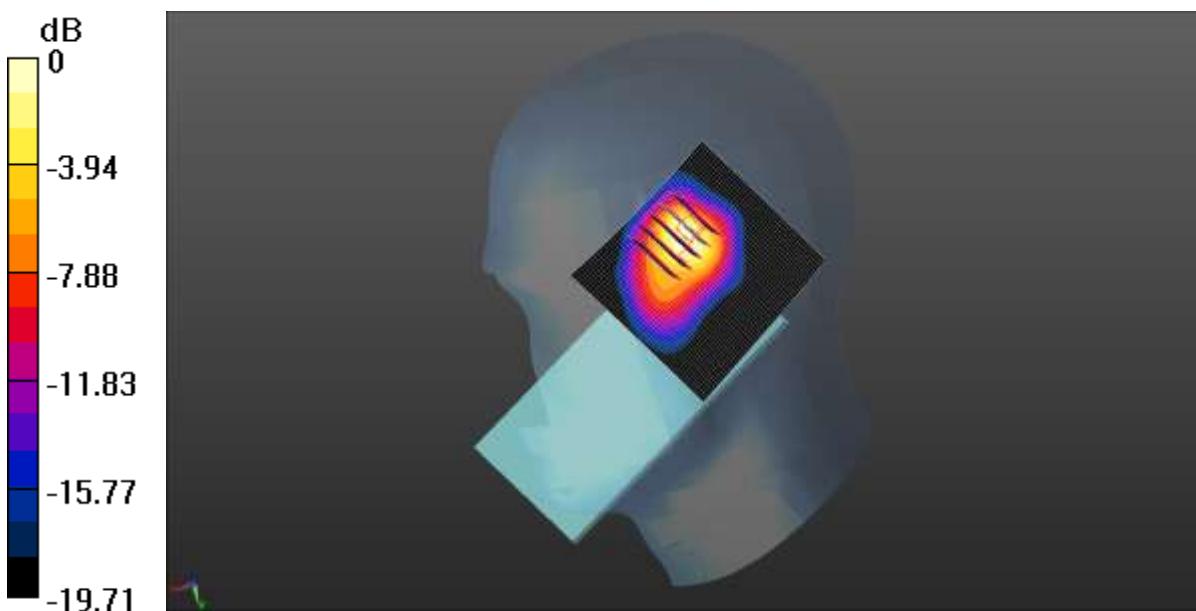
Peak SAR (extrapolated) = 0.422 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.069 W/kg

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 39.9%

Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 706.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 706.5 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 40.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(10.2, 10.2, 10.2) @ 706.5 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n12 1RB(15MHz) Right Cheek/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.382 W/kg

NR n12 1RB(15MHz) Right Cheek/Low Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.22 V/m; Power Drift = -0.06 dB

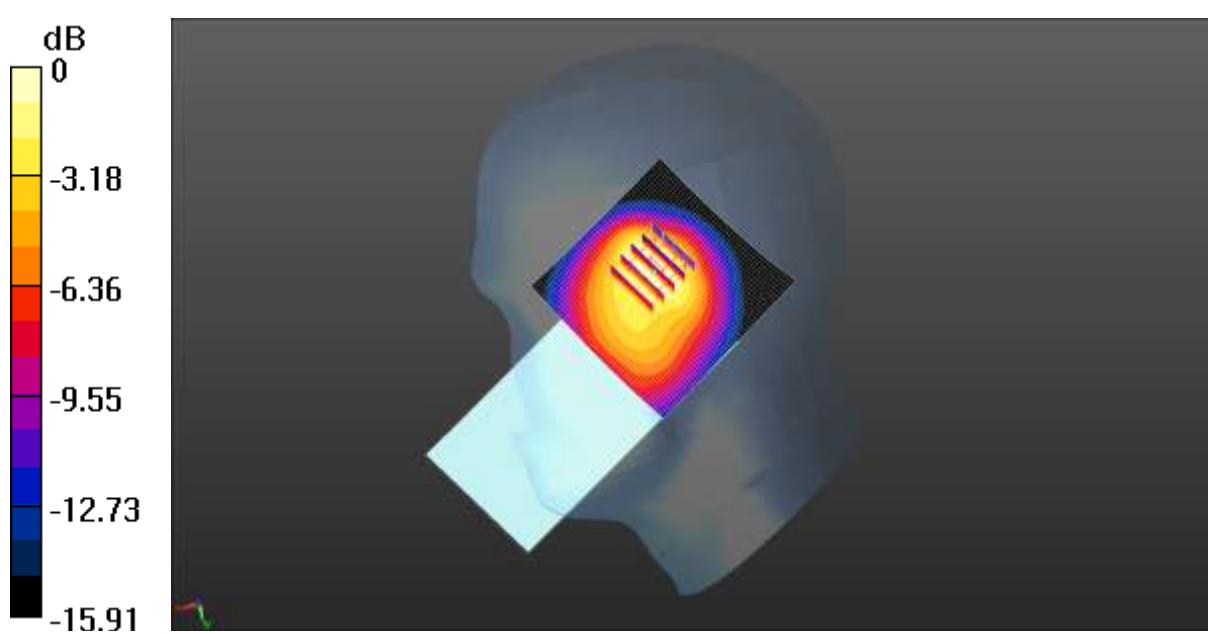
Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.138 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 35.2%

Maximum value of SAR (measured) = 0.362 W/kg



$$0 \text{ dB} = 0.362 \text{ W/kg} = -4.41 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 2546.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2546.01 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 37.761$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(7.35, 7.35, 7.35) @ 2546.01 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n41 1RB(20MHz) Right Cheek/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

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

NR n41 1RB(20MHz) Right Cheek/Low Channel/Zoom Scan (7x7x7)/Cube 0:Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.031 V/m; Power Drift = -0.03 dB

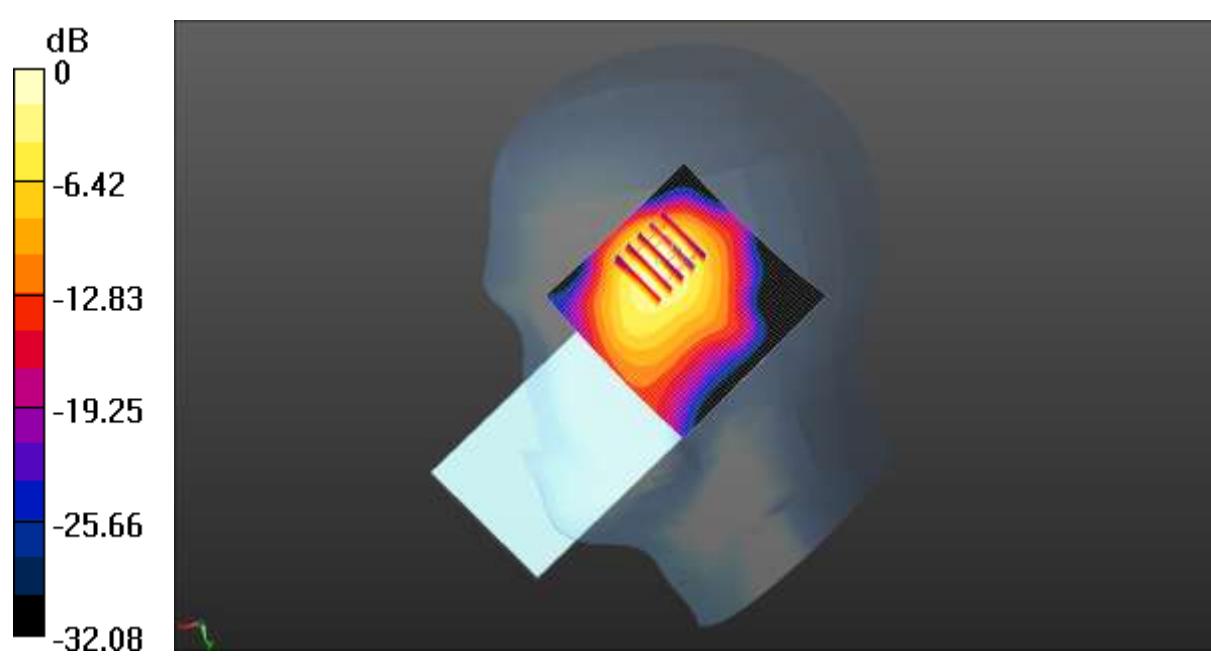
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.206 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 41.8%

Maximum value of SAR (measured) = 0.781 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 1760 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1760 \text{ MHz}$; $\sigma = 1.335 \text{ S/m}$; $\epsilon_r = 38.466$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1760 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 50%RB(40MHz) Right Tilted/High Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.46 W/kg

NR n66 50%RB(40MHz) Right Tilted/High Channel/Zoom Scan (5x5x7)/Cube0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.87 V/m; Power Drift = 0.00 dB

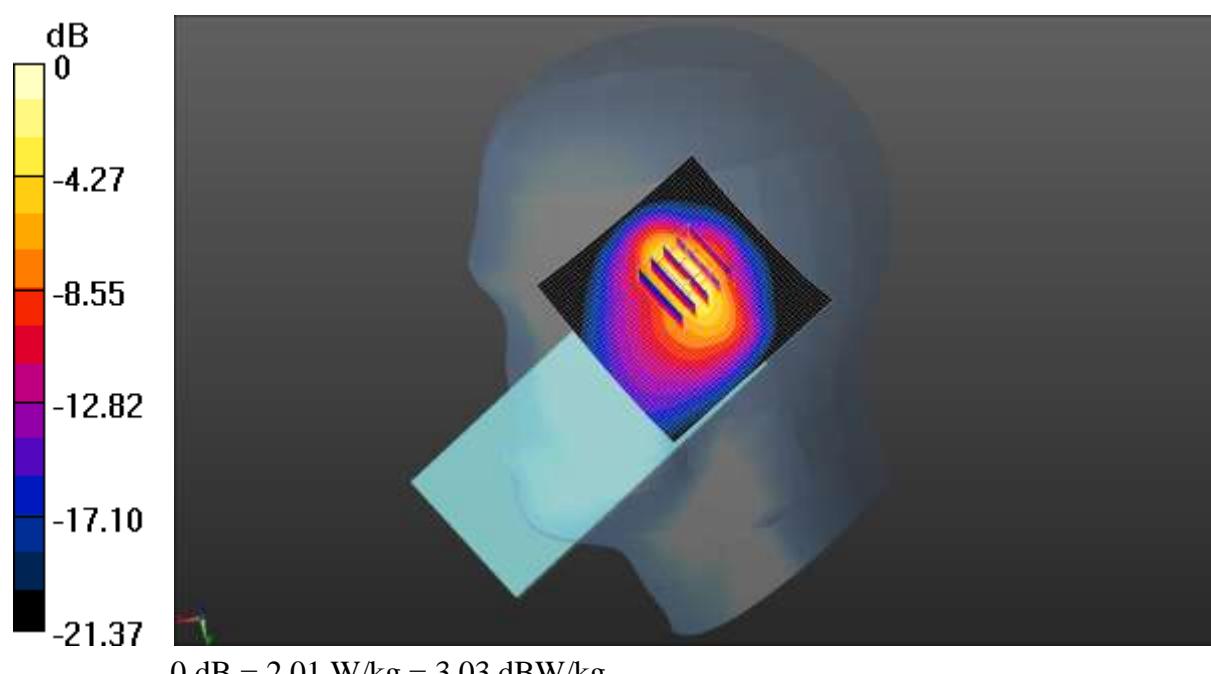
Peak SAR (extrapolated) = 2.50 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.506 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 2.01 W/kg



Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.01 \text{ MHz}$; $\sigma = 2.892 \text{ S/m}$; $\epsilon_r = 37.144$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(7.02, 7.02, 7.02) @ 3500.01 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77 50%RB(100MHz) Left Cheek/Middle Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.516 W/kg

NR n77 50%RB(100MHz) Left Cheek/Middle Channel/Zoom Scan(7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$

Reference Value = 7.063 V/m; Power Drift = -0.14 dB

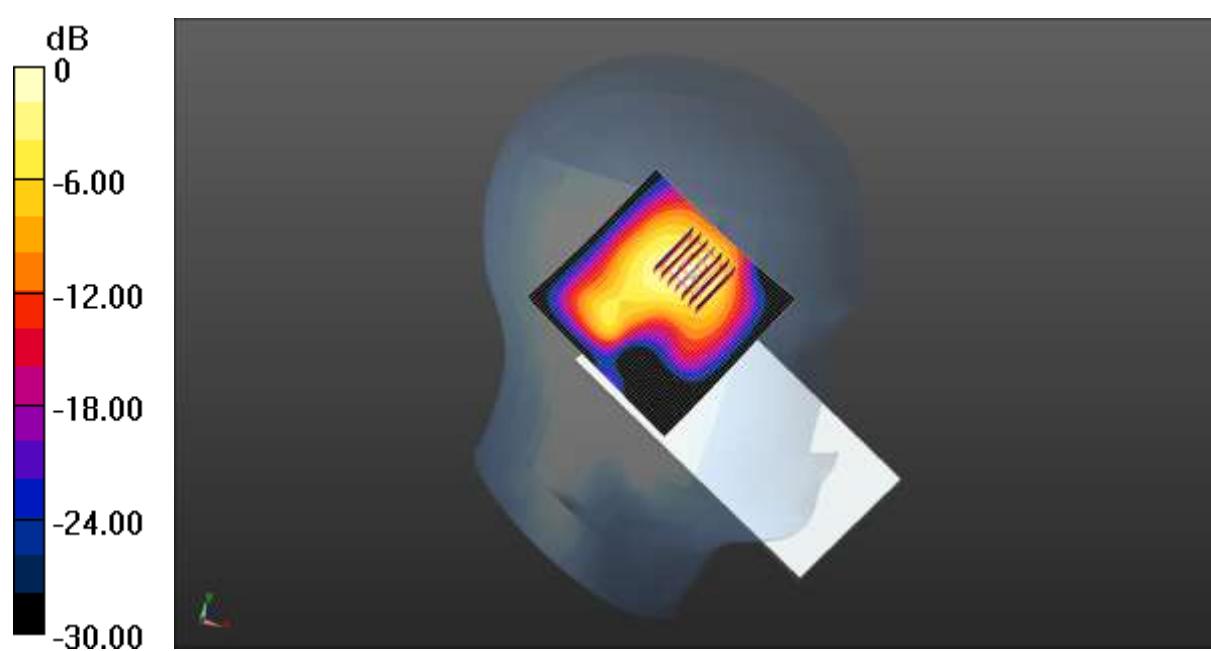
Peak SAR (extrapolated) = 0.969 W/kg

SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.129 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 32.3%

Maximum value of SAR (measured) = 0.673 W/kg



$$0 \text{ dB} = 0.673 \text{ W/kg} = -1.72 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 3750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3750 \text{ MHz}$; $\sigma = 3.212 \text{ S/m}$; $\epsilon_r = 36.65$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(6.75, 6.75, 6.75) @ 3750 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77 50%RB(100MHz) Left Cheek/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.761 W/kg

NR n77 50%RB(100MHz) Left Cheek/Low Channel/Zoom Scan (7x7x7)/Cube**0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$

Reference Value = 9.833 V/m; Power Drift = -0.14 dB

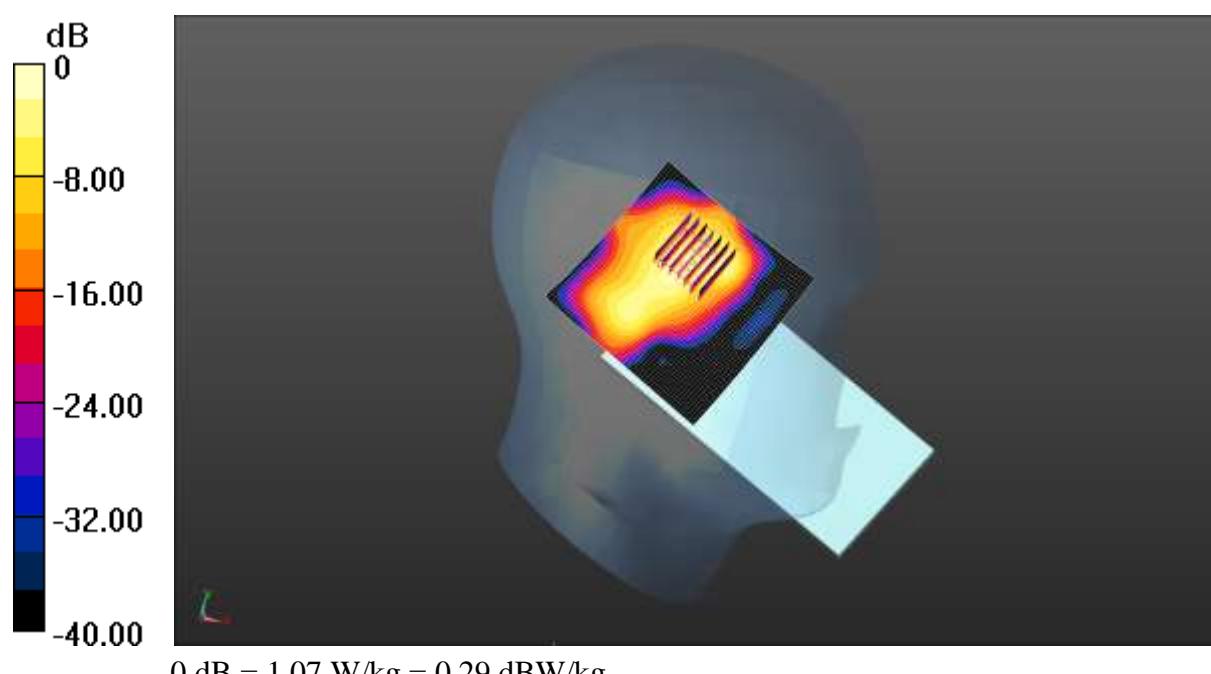
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.193 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 39.8%

Maximum value of SAR (measured) = 1.07 W/kg



Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 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): $f = 2412 \text{ MHz}$; $\sigma = 1.706 \text{ S/m}$; $\epsilon_r = 37.776$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left 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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2.4GWIFI Left Cheek/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.309 W/kg

2.4GWIFI Left Cheek/Low Channel/Zoom Scan (5x5x7)/Cube 0: Measurementgrid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.841 V/m; Power Drift = 0.02 dB

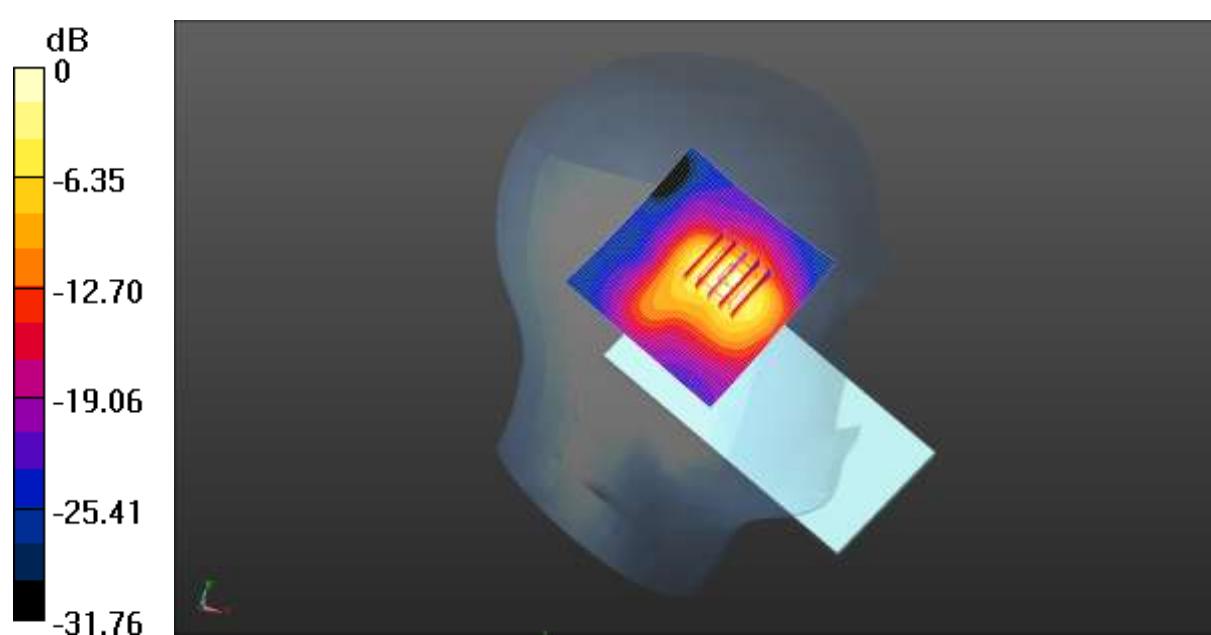
Peak SAR (extrapolated) = 0.460 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.077 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.3%

Maximum value of SAR (measured) = 0.286 W/kg



Test Laboratory: JYTSZ

Date: 01.27.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, IEEE 802.11n20 WiFi 5GHz (0); Frequency: 5180

MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.747 \text{ S/m}$; $\epsilon_r = 36.366$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.41, 5.41, 5.41) @ 5180 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.2GWIFI Left Cheek/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.189 W/kg

5.2GWIFI Left Cheek/Low Channel/Zoom Scan (7x7x7)/Cube 0: Measurementgrid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.3320 V/m; Power Drift = 0.07 dB

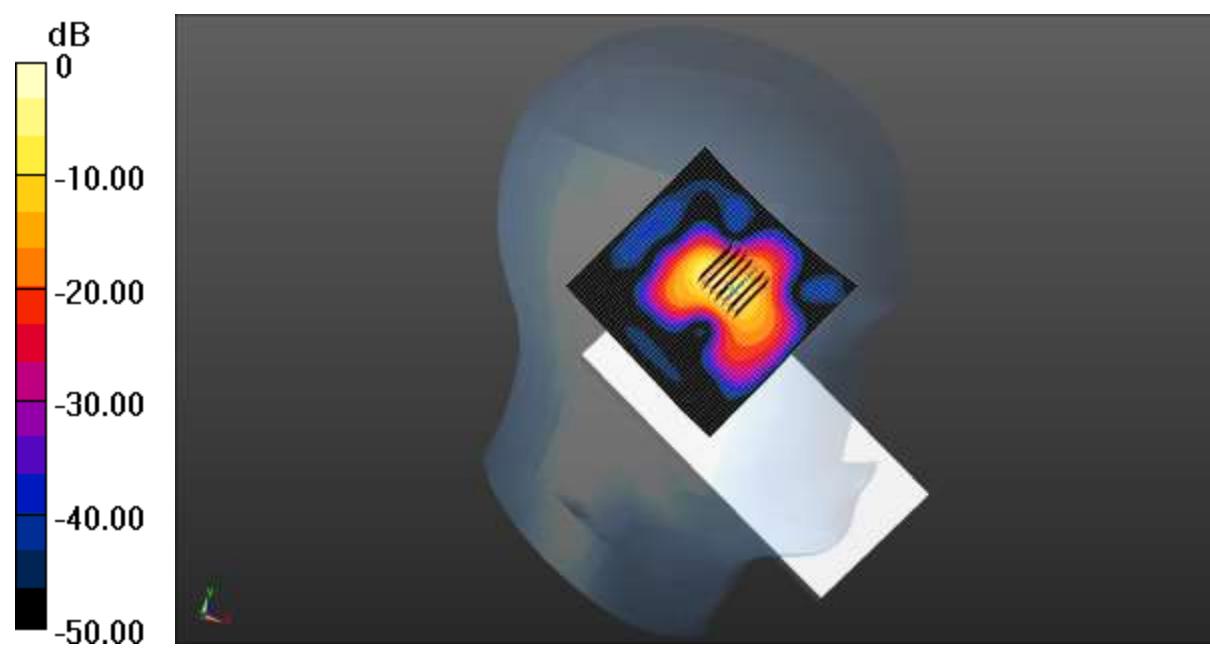
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.044 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 17.5%

Maximum value of SAR (measured) = 0.589 W/kg



Test Laboratory: JYTSZ

Date: 01.27.2023

DUT: Mobile Phone; Type: X6710; Serial: 2#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5745 \text{ MHz}$; $\sigma = 5.432 \text{ S/m}$; $\epsilon_r = 35.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.9, 4.9, 4.9) @ 5745 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.8GWIFI Left Cheek/Low Channel/Area Scan (51x51x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.351 W/kg

5.8GWIFI Left Cheek/Low Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.906 V/m; Power Drift = -0.04 dB

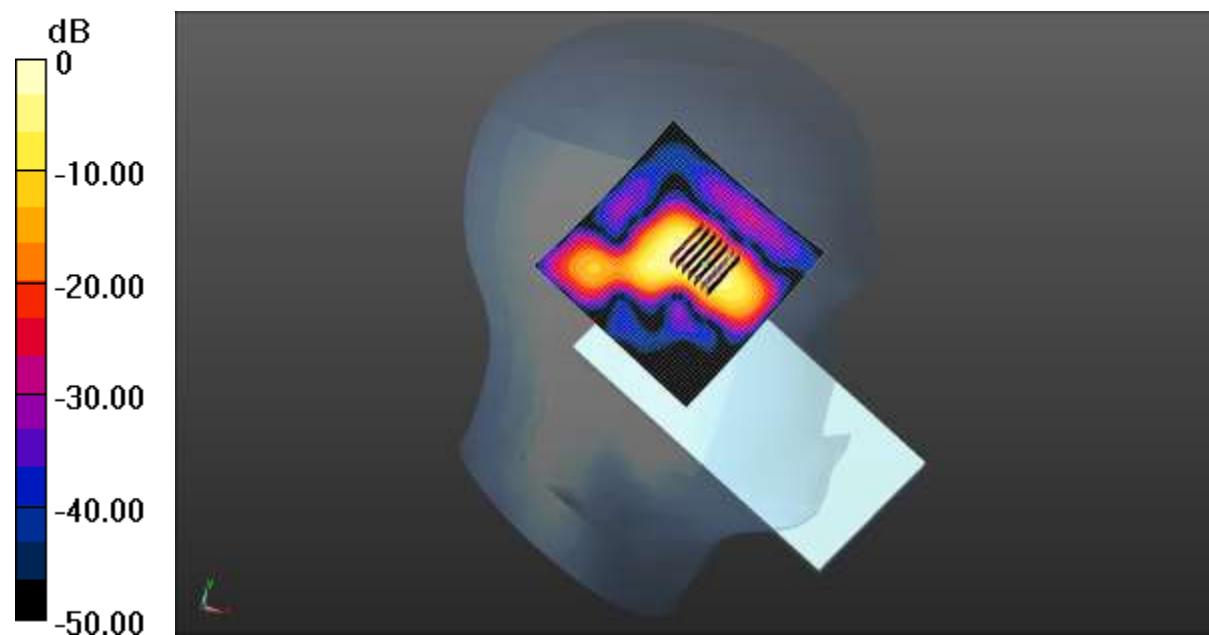
Peak SAR (extrapolated) = 0.850 W/kg

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.028 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 10.4%

Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.712 \text{ S/m}$; $\epsilon_r = 37.769$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(7.6, 7.6, 7.6) @ 2441 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

BT Left Cheek/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.00790 W/kg

BT Left Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5 \text{ mm}$, $dy=5 \text{ mm}$, $dz=5 \text{ mm}$

Reference Value = 0.8420 V/m; Power Drift = 0.00 dB

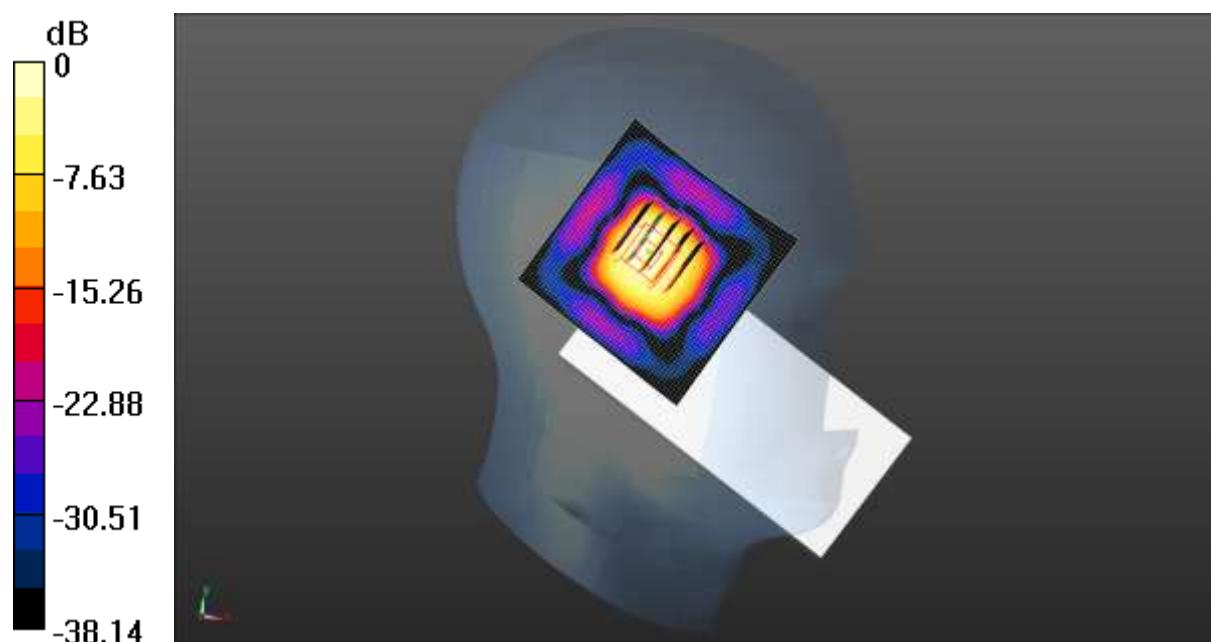
Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.00541 W/kg; SAR(10 g) = 0.00174 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 22.3%

Maximum value of SAR (measured) = 0.00826 W/kg



$$0 \text{ dB} = 0.00826 \text{ W/kg} = -20.83 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1.99986

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GPRS 850 4Slots Body Back/Middle Channel/Area Scan (51x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.605 W/kg

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

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

Reference Value = 17.58 V/m; Power Drift = 0.02 dB

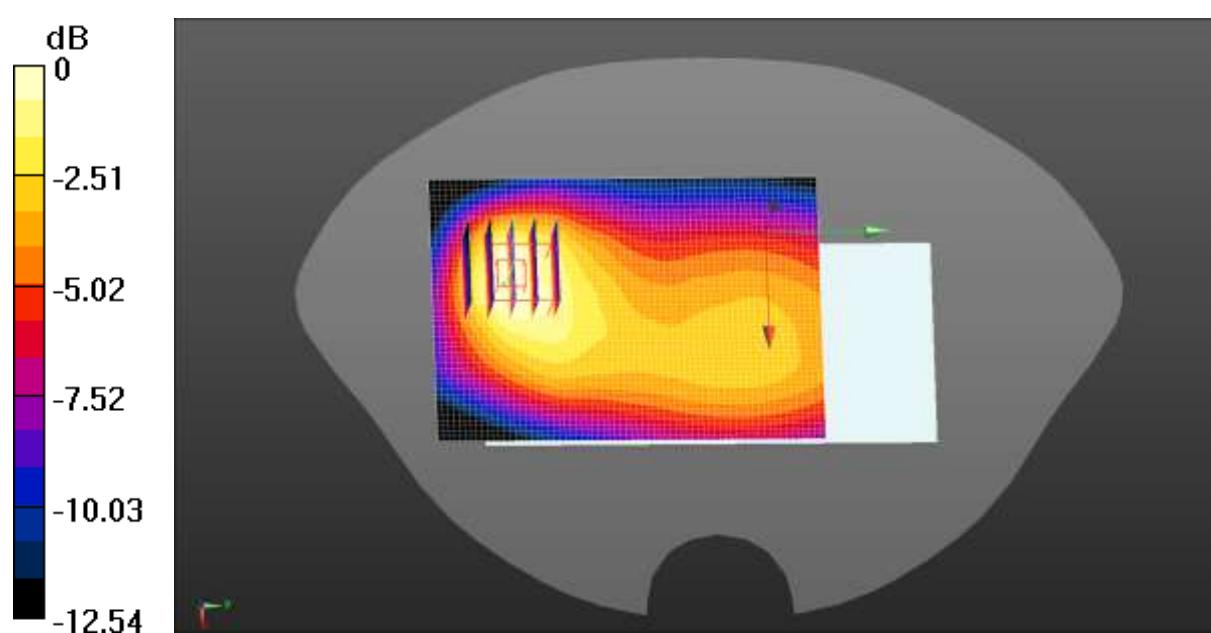
Peak SAR (extrapolated) = 0.667 W/kg

SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.243 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 0.544 W/kg



0 dB = 0.544 W/kg = -2.64 dBW/kg

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.341 \text{ S/m}$; $\epsilon_r = 38.335$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GPRS 1900 4Slots Body Back/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.193 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 = 6.911 V/m; Power Drift = 0.06 dB

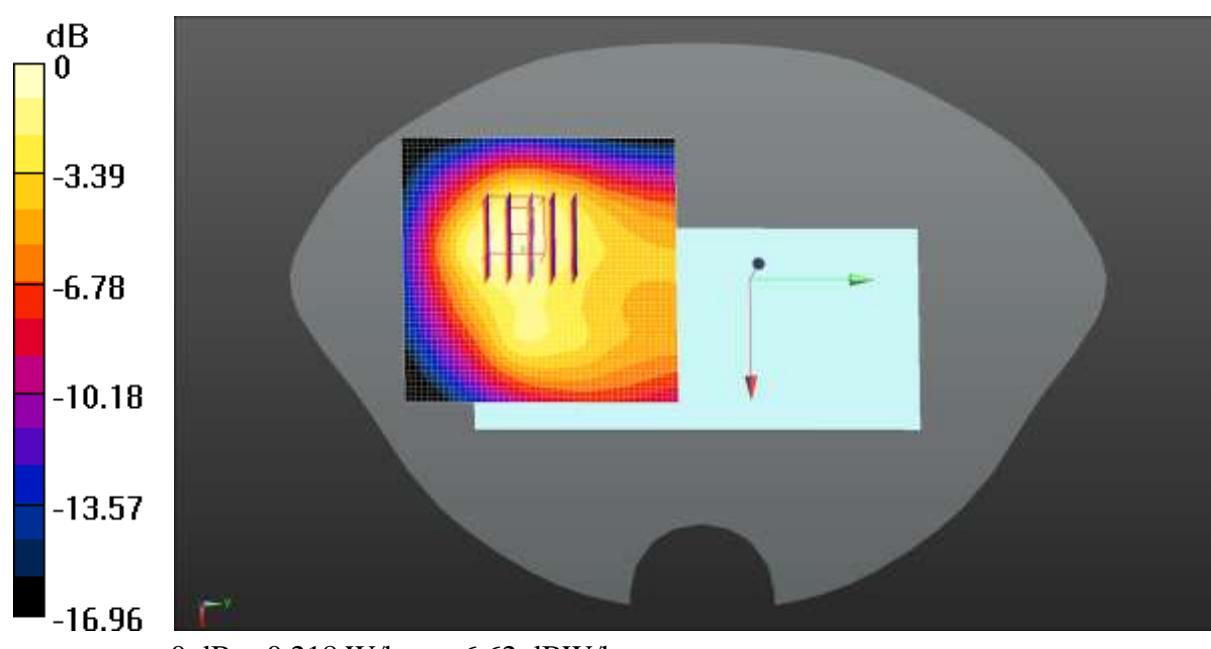
Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 16.5 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.218 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.342 \text{ S/m}$; $\epsilon_r = 38.491$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1900 Body Back/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0982 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 = 4.187 V/m; Power Drift = 0.18 dB

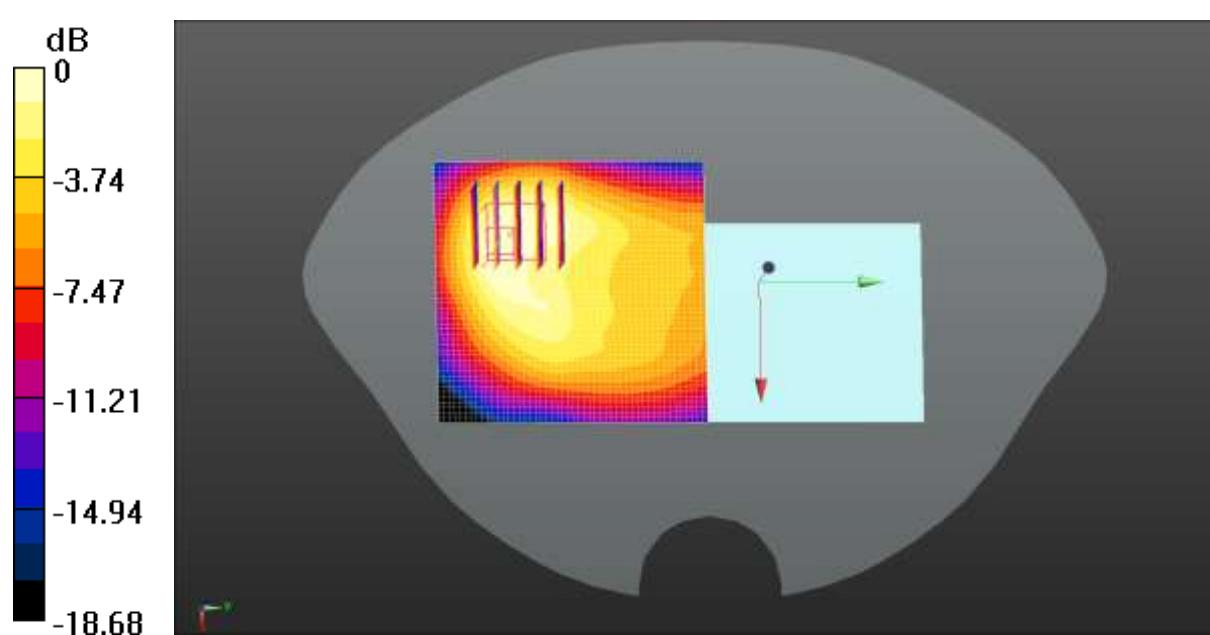
Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.033 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.0834 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.331 \text{ S/m}$; $\epsilon_r = 38.475$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1752.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Body Back/High Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0860 W/kg

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

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

Reference Value = 3.782 V/m; Power Drift = 0.05 dB

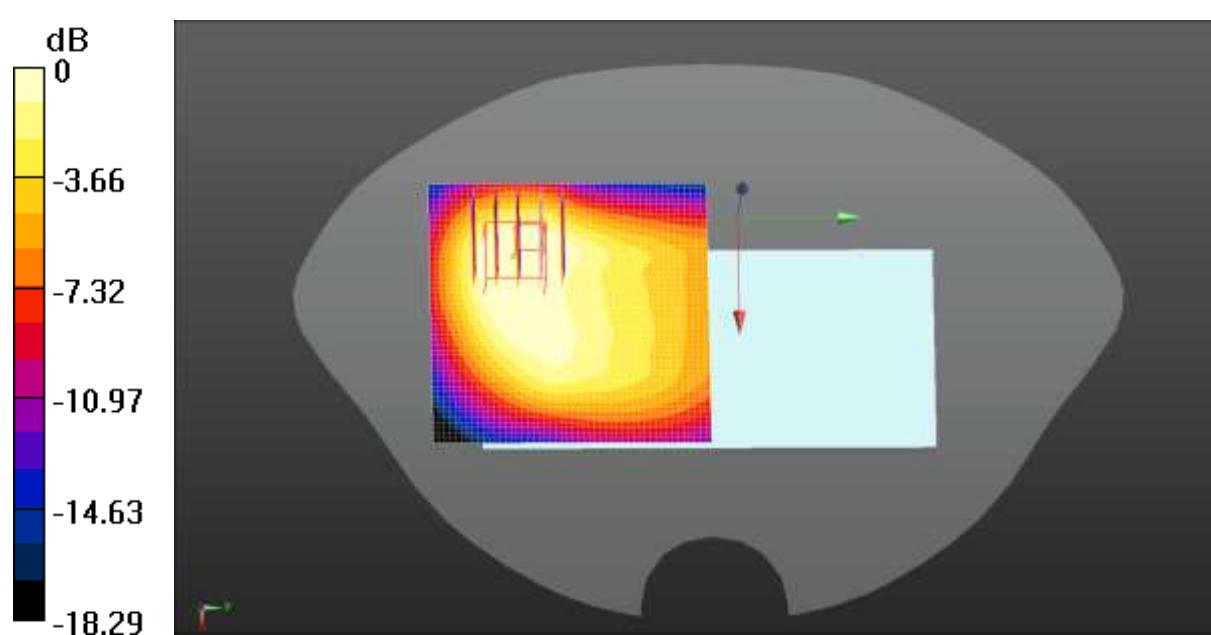
Peak SAR (extrapolated) = 0.0850 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.027 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 0.0665 W/kg



$$0 \text{ dB} = 0.0665 \text{ W/kg} = -11.77 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(10.2, 10.2, 10.2) @ 836.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 850 Body Back/Middle Channel/Area Scan (51x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.245 W/kg

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

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

Reference Value = 11.00 V/m; Power Drift = -0.10 dB

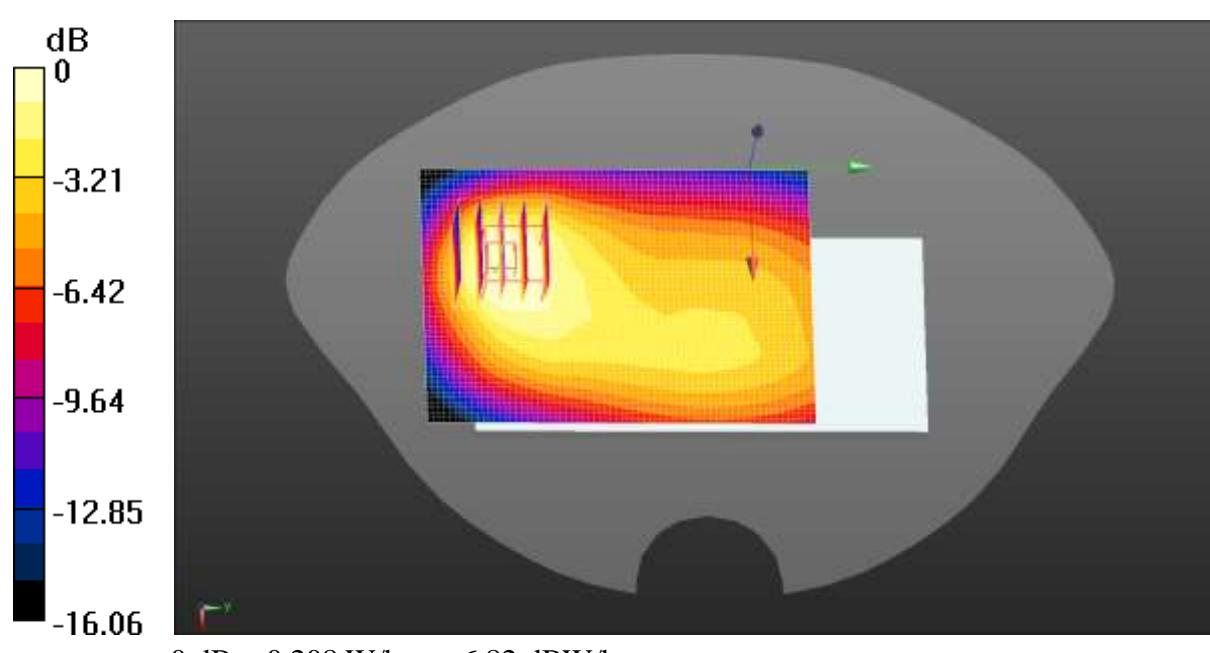
Peak SAR (extrapolated) = 0.260 W/kg

SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 0.208 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.356 \text{ S/m}$; $\epsilon_r = 38.771$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 1RB(20MHz) Body Front/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.114 W/kg

LTE Band 2 1RB(20MHz) 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 = 3.883 V/m; Power Drift = -0.04 dB

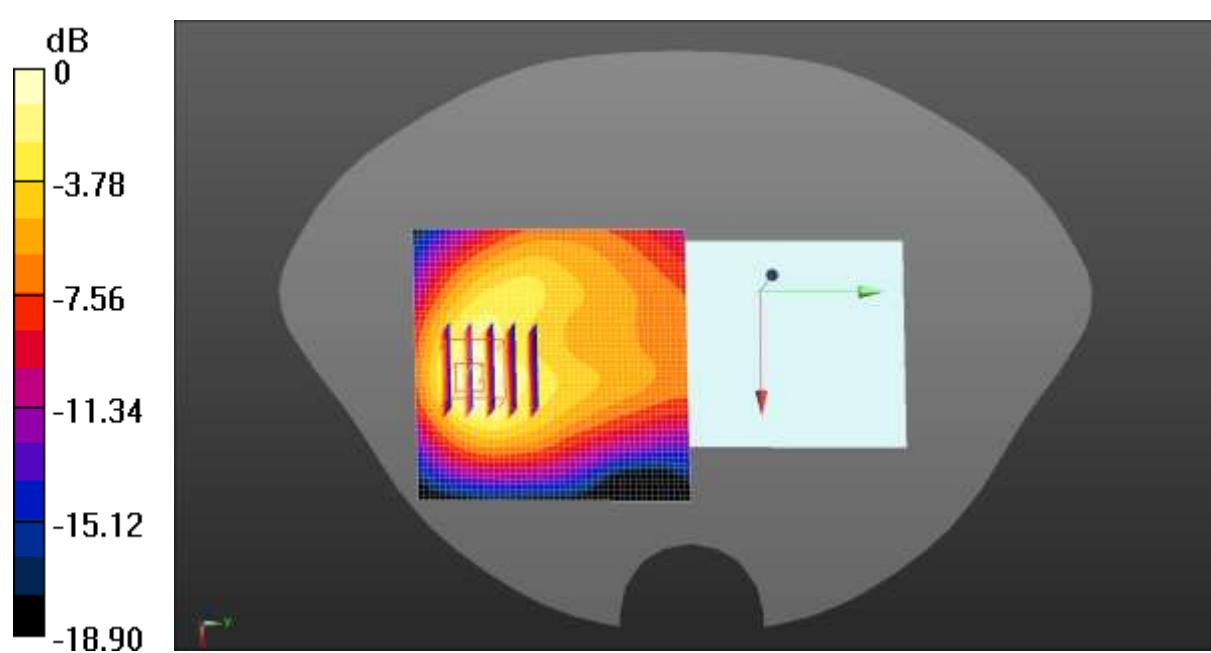
Peak SAR (extrapolated) = 0.121 W/kg

SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.035 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.6%

Maximum value of SAR (measured) = 0.100 W/kg



$$0 \text{ dB} = 0.100 \text{ W/kg} = -10.00 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 829 \text{ MHz}$; $\sigma = 0.916 \text{ S/m}$; $\epsilon_r = 39.985$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 5 1RB(10MHz) Body Back/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.171 W/kg

LTE Band 5 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 = 9.400 V/m; Power Drift = -0.03 dB

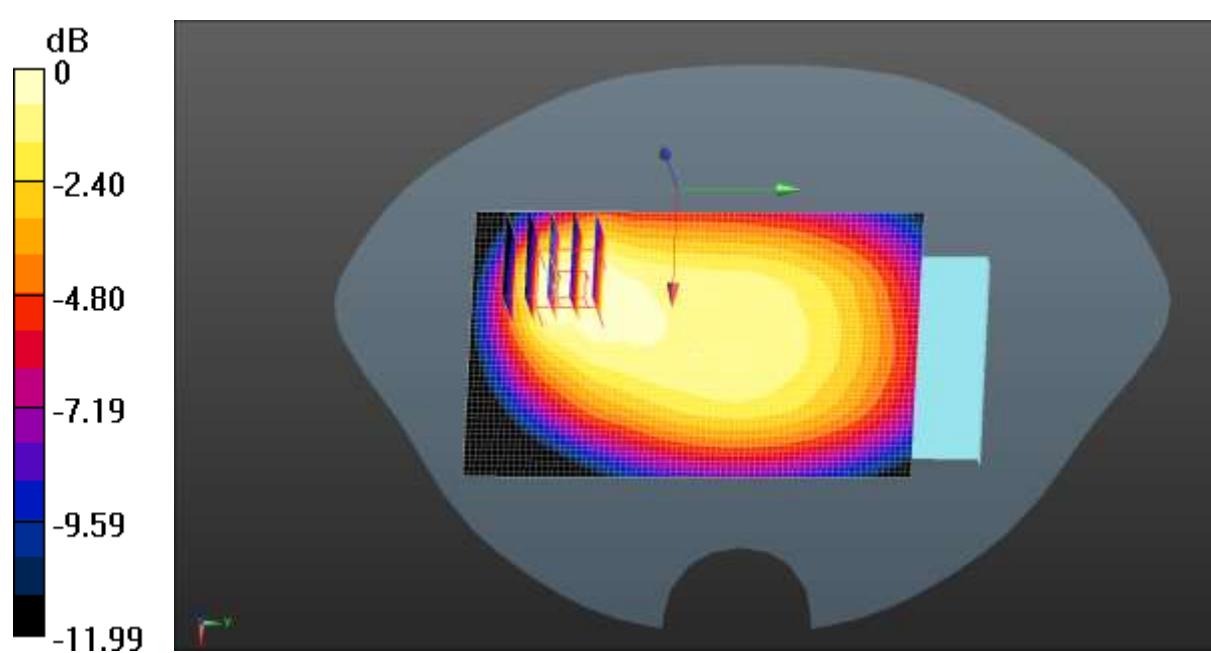
Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.070 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 0.153 W/kg



$$0 \text{ dB} = 0.153 \text{ W/kg} = -8.15 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used: $f = 2510 \text{ MHz}$; $\sigma = 1.791 \text{ S/m}$; $\epsilon_r = 37.656$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.284 W/kg

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube

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

Reference Value = 1.735 V/m; Power Drift = -0.01 dB

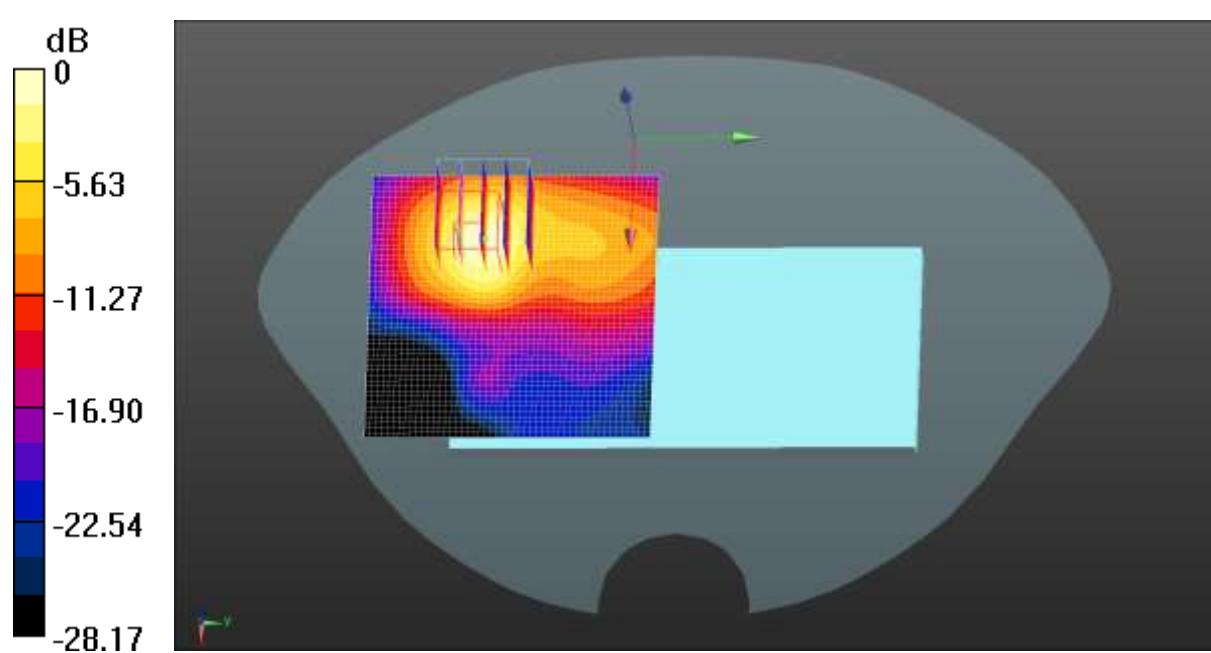
Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.087 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.878 \text{ S/m}$; $\epsilon_r = 40.516$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 12 1RB(10MHz) Body Back/Low Channel/Area Scan (51x81x1):

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

Maximum value of SAR (interpolated) = 0.150 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 = -0.03 dB

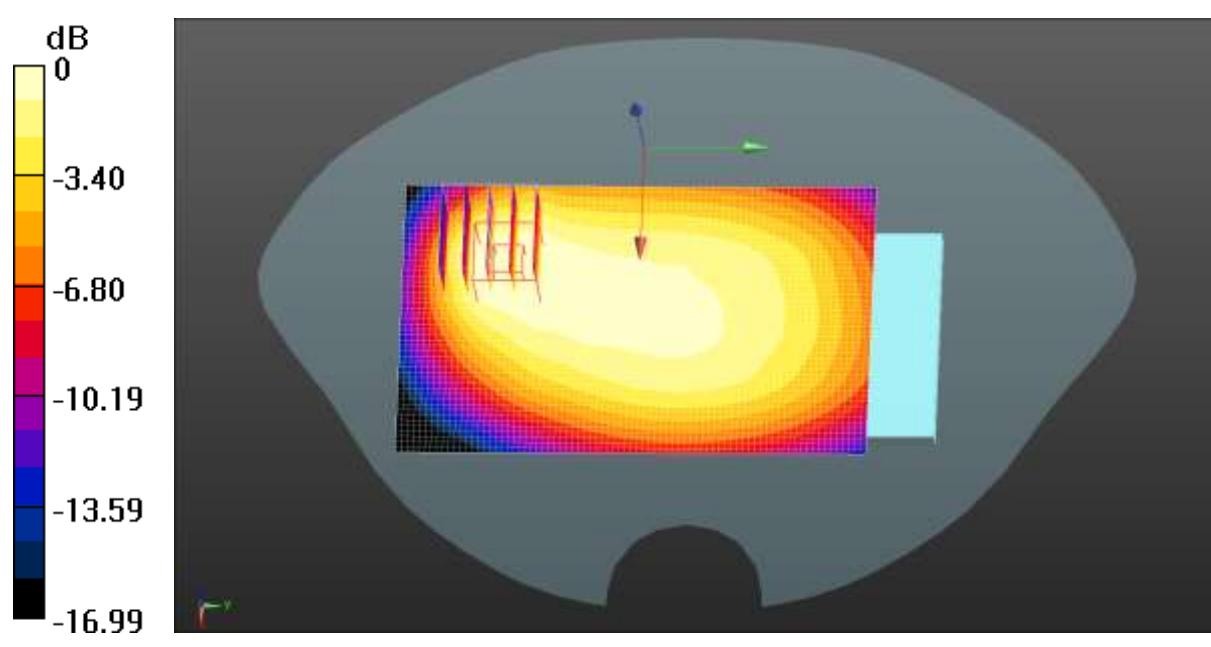
Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.065 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 0.138 W/kg



$$0 \text{ dB} = 0.138 \text{ W/kg} = -8.60 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Medium parameters used (interpolated): $f = 2593 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 37.761$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35) @ 2593 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 41 1RB(20MHz) Body Back/Middle Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.497 W/kg

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

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

Reference Value = 3.488 V/m; Power Drift = 0.17 dB

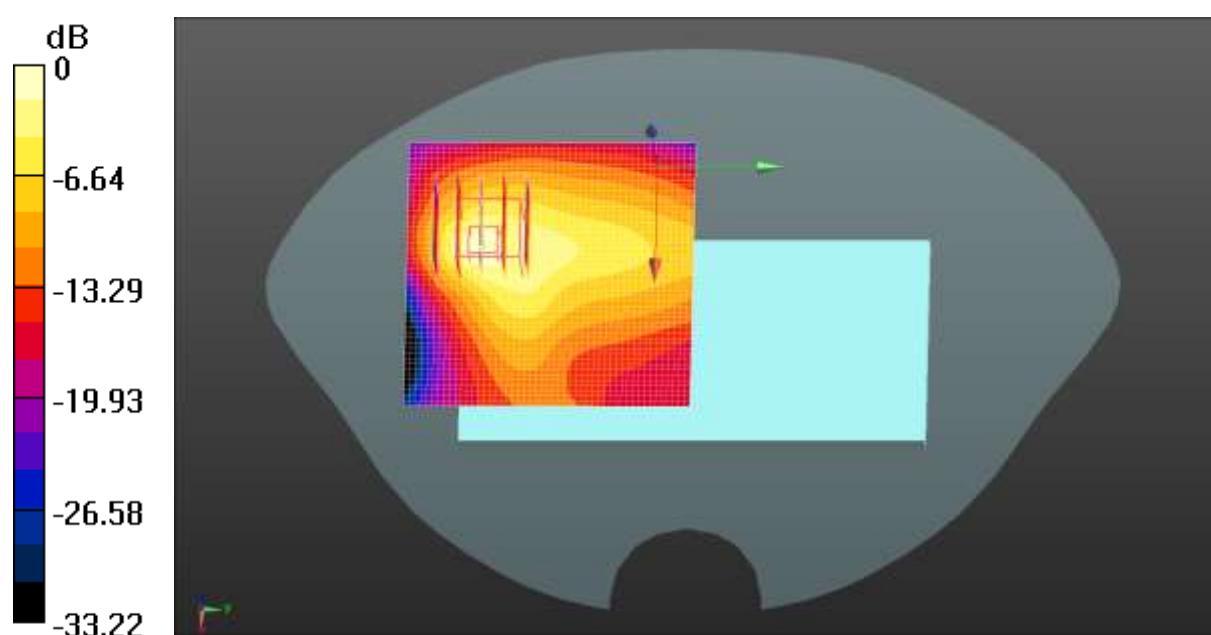
Peak SAR (extrapolated) = 0.725 W/kg

SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.145 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.2%

Maximum value of SAR (measured) = 0.567 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720 \text{ MHz}$; $\sigma = 1.317 \text{ S/m}$; $\epsilon_r = 38.532$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1720 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 1RB(20MHz) Body Back/Low Channel/Area Scan (51x51x1):

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

Maximum value of SAR (interpolated) = 0.131 W/kg

LTE Band 66 1RB(20MHz) 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 = 4.959 V/m; Power Drift = 0.10 dB

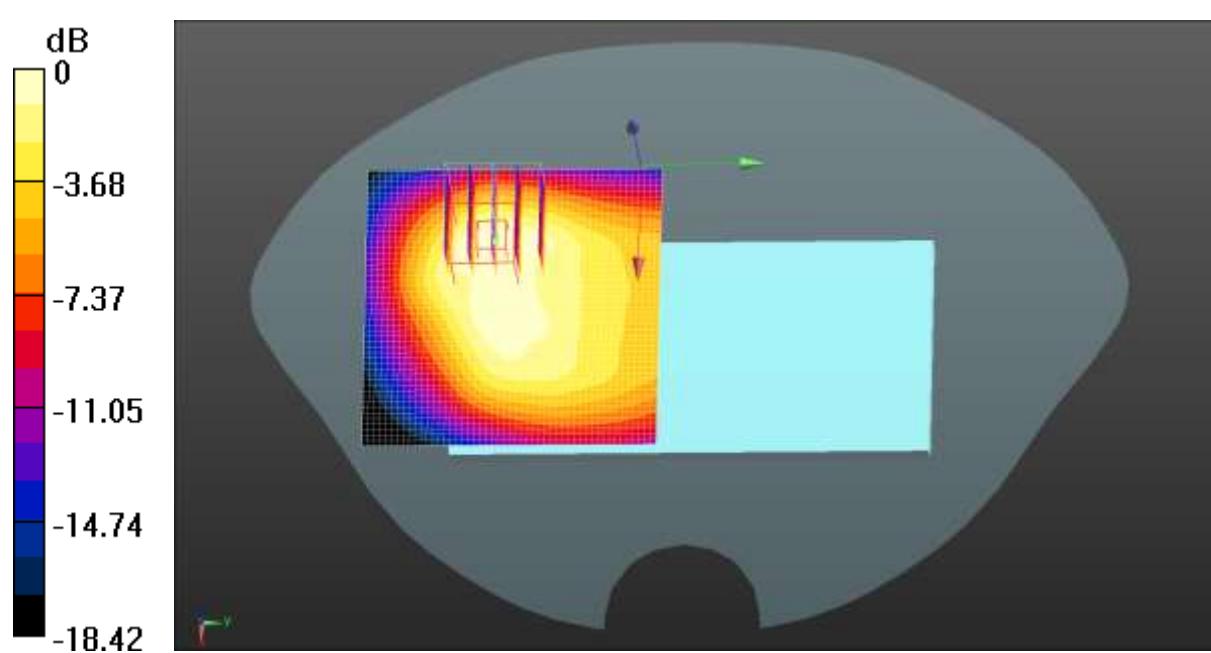
Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.046 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.117 W/kg



$$0 \text{ dB} = 0.117 \text{ W/kg} = -9.32 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(9.8, 9.8, 9.8) @ 836.5 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n5 1RB(20MHz) Body Back/Middle Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.277 W/kg

NR n5 1RB(20MHz) Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.45 V/m; Power Drift = 0.01 dB

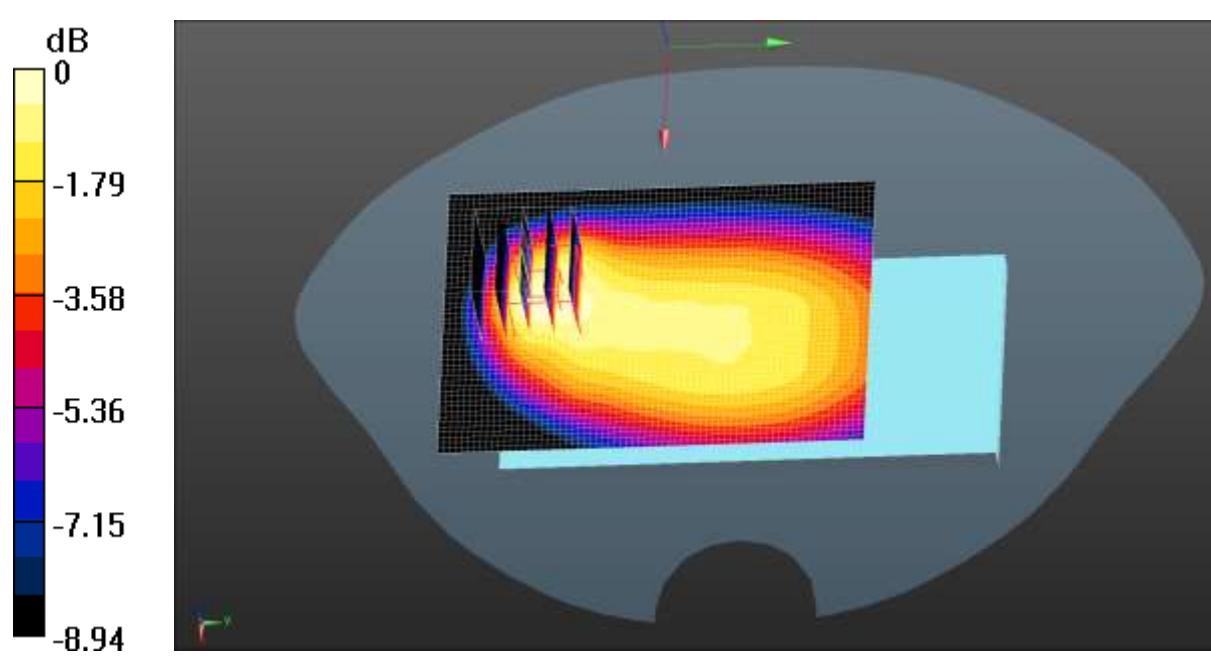
Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.101 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 0.222 W/kg



$$0 \text{ dB} = 0.222 \text{ W/kg} = -6.54 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 2510 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2510 \text{ MHz}$; $\sigma = 1.812 \text{ S/m}$; $\epsilon_r = 37.859$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

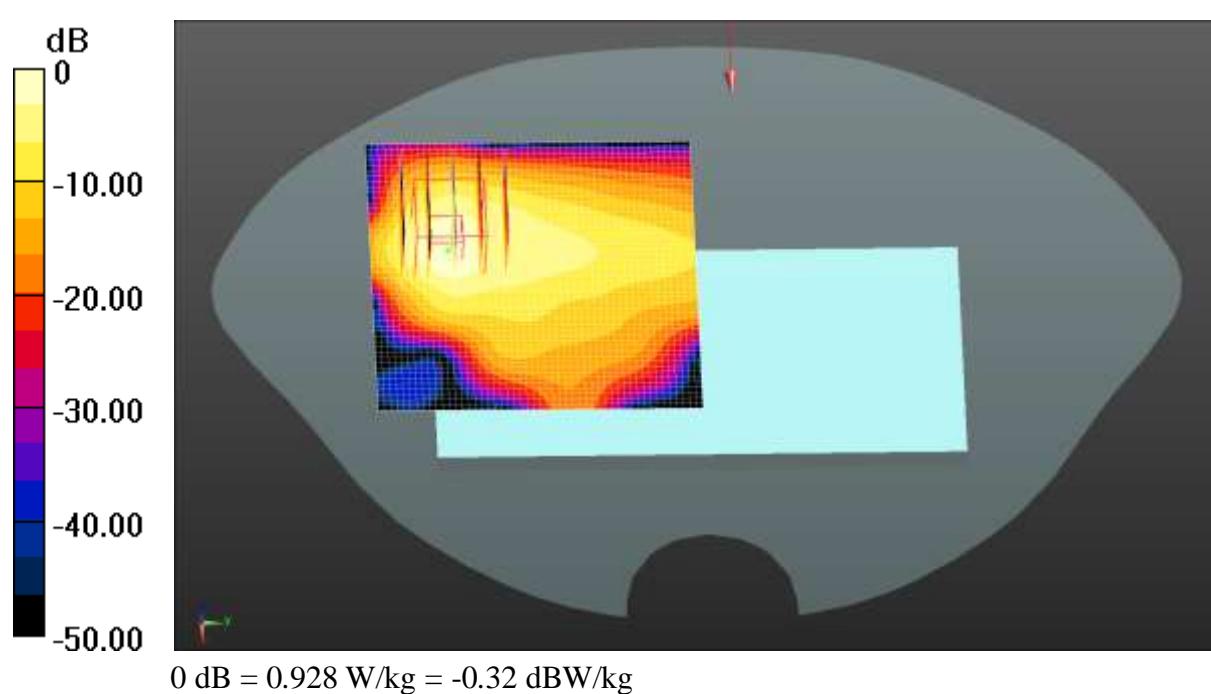
DASY5 Configuration:

- 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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n7 1RB(20MHz) Body Back/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
Maximum value of SAR (interpolated) = 0.736 W/kg

NR n7 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 = 4.472 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.228 W/kg
Smallest distance from peaks to all points 3 dB below = 8.1 mm
Ratio of SAR at M2 to SAR at M1 = 44%
Maximum value of SAR (measured) = 0.928 W/kg



$$0 \text{ dB} = 0.928 \text{ W/kg} = -0.32 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 706.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 706.5 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 40.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(10.2, 10.2, 10.2) @ 706.5 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n12 1RB(15MHz) Body Back/Middle Channel/Area Scan (51x71x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

NR n12 1RB(15MHz) Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.60 V/m; Power Drift = -0.08 dB

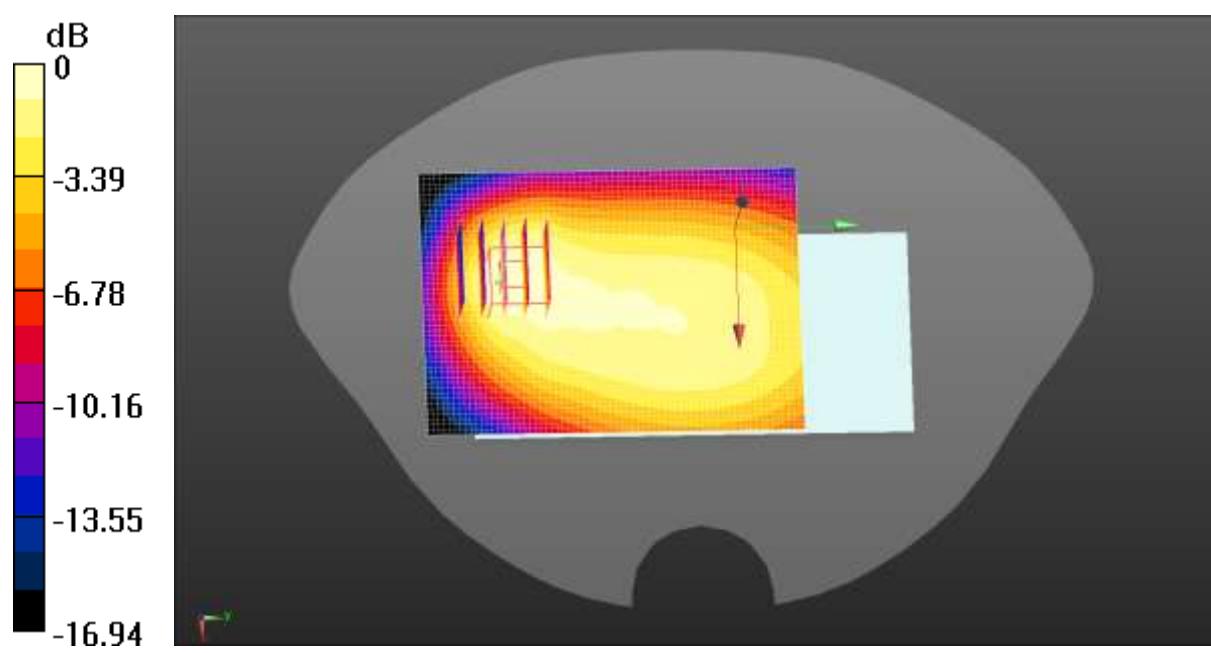
Peak SAR (extrapolated) = 0.154 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.053 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.122 W/kg



$$0 \text{ dB} = 0.122 \text{ W/kg} = -9.14 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 2546.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2546.01 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 37.761$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.35, 7.35, 7.35) @ 2546.01 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n41 50%RB(100MHz) Body Back/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.238 W/kg

NR n41 50%RB(100MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.713 V/m; Power Drift = -0.08 dB

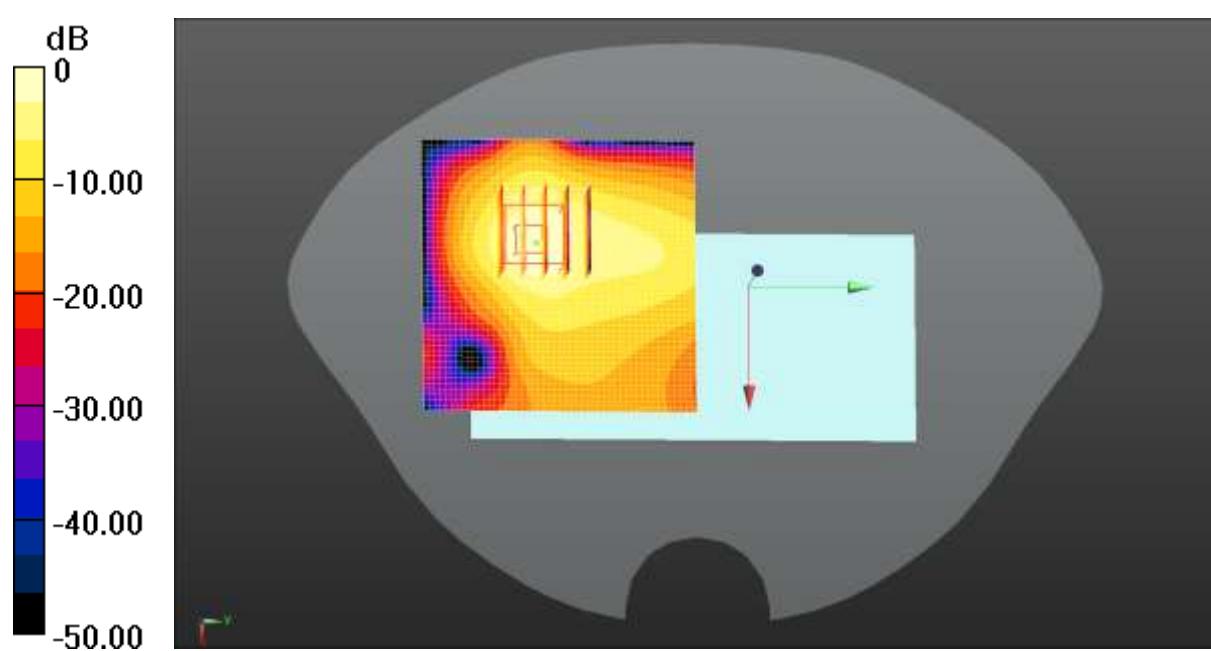
Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.057 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

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



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

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.329 \text{ S/m}$; $\epsilon_r = 38.486$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1745 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 50%RB(40MHz) Body Front/Middle Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.446 W/kg

NR n66 50%RB(40MHz) Body Front/Middle Channel/Zoom Scan(5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.410 V/m; Power Drift = -0.11 dB

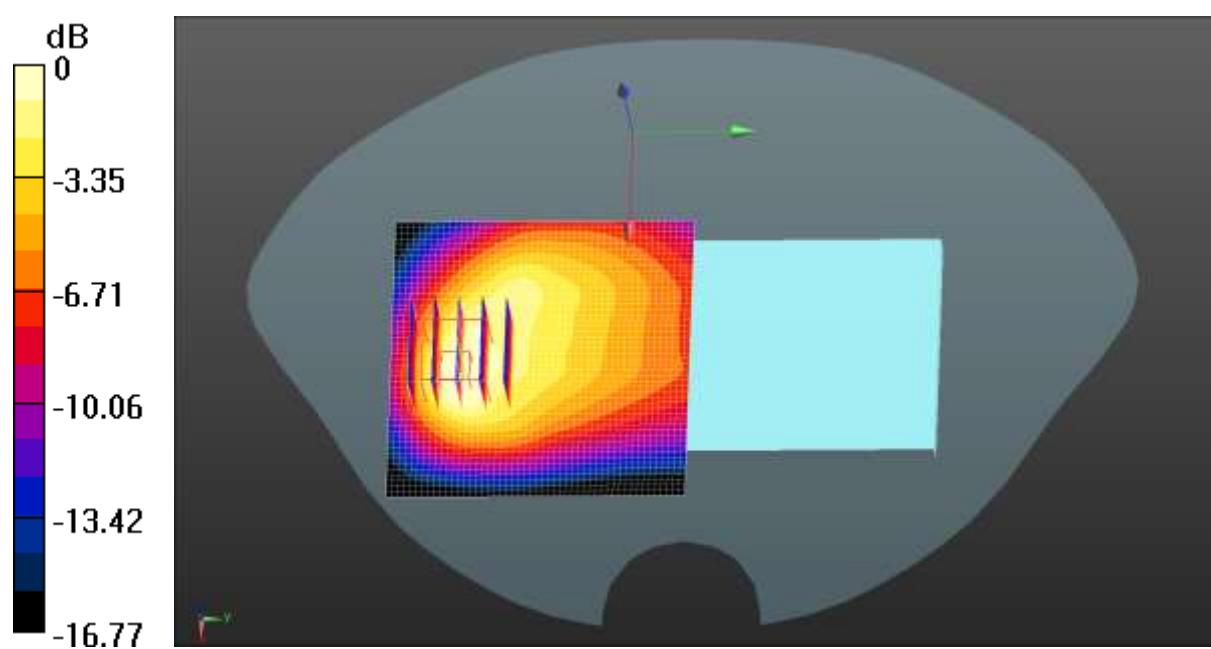
Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.135 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.353 W/kg



$$0 \text{ dB} = 0.353 \text{ W/kg} = -4.52 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01 \text{ MHz}$; $\sigma = 2.892 \text{ S/m}$; $\epsilon_r = 37.144$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.02, 7.02, 7.02) @ 3500.01 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77 50%RB(100MHz) Body Back/Middle Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.229 W/kg

NR n77 50%RB(100MHz) Body Back/Middle Channel/Zoom Scan(7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$

Reference Value = 2.820 V/m; Power Drift = -0.02 dB

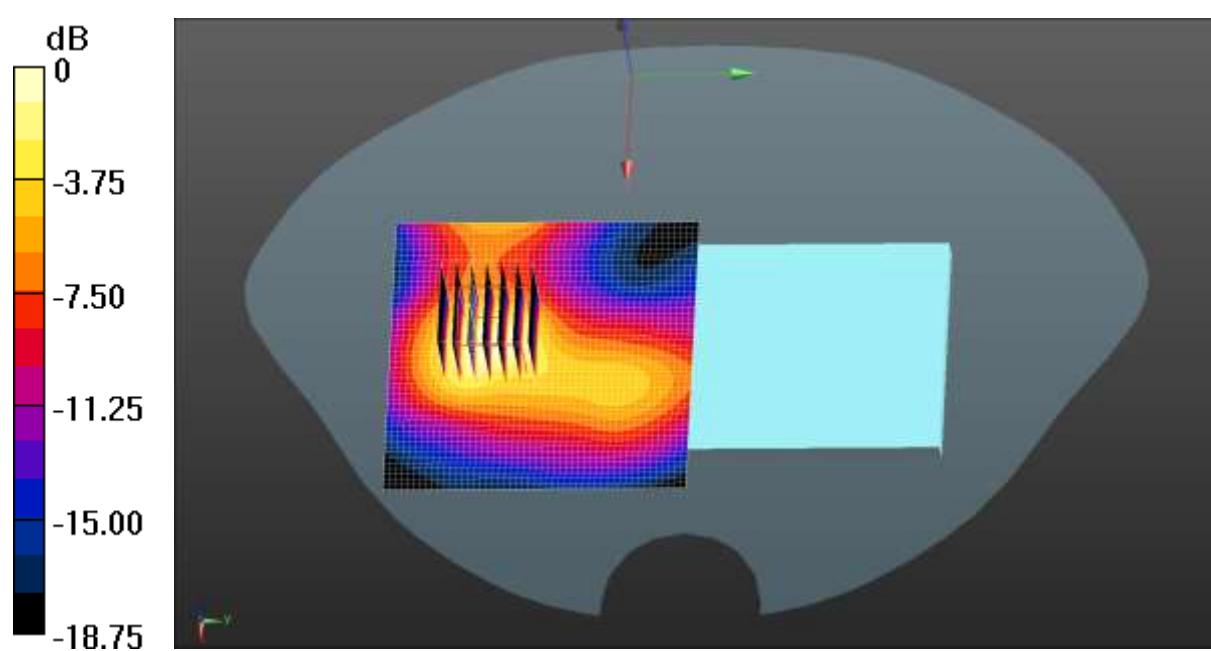
Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.062 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 37.8%

Maximum value of SAR (measured) = 0.252 W/kg



$$0 \text{ dB} = 0.252 \text{ W/kg} = -5.99 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.20.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 3750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 3750 \text{ MHz}$; $\sigma = 3.212 \text{ S/m}$; $\epsilon_r = 36.65$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(6.75, 6.75, 6.75) @ 3750 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n77 50%RB(100MHz) Body Back/Low Channel/Area Scan (51x51x1):Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.793 W/kg

NR n77 50%RB(100MHz) Body Back/Low Channel/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$

Reference Value = 1.975 V/m; Power Drift = -0.13 dB

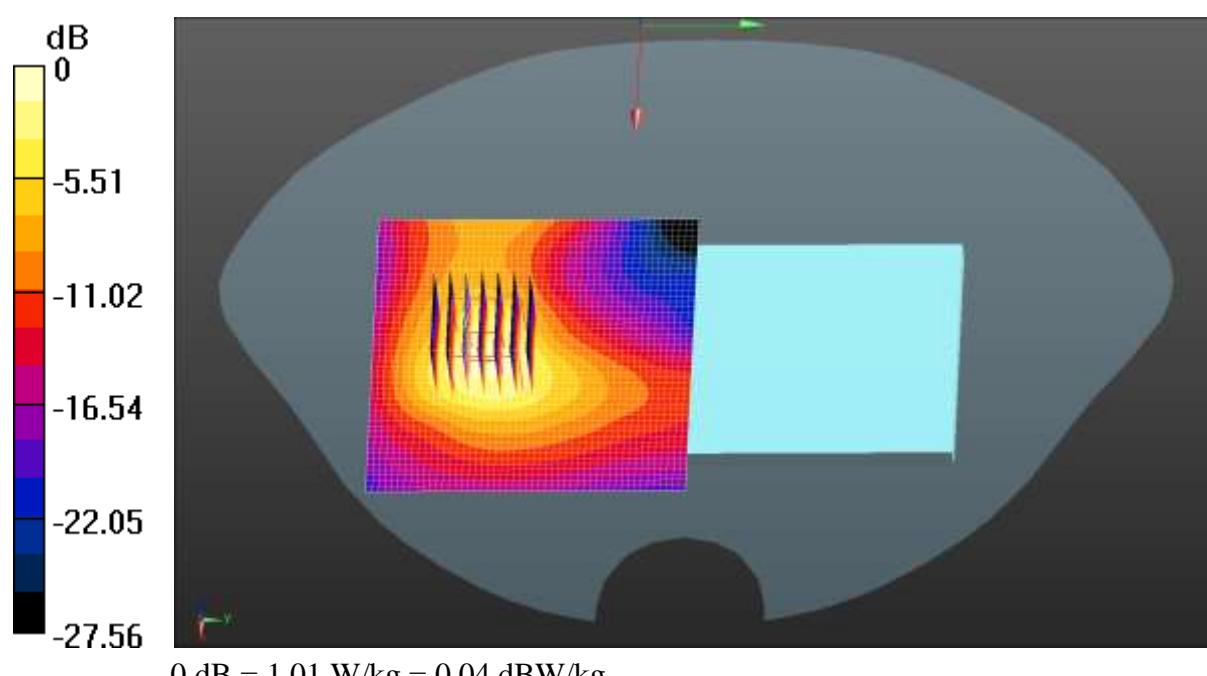
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.243 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 36.5%

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



Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.706 \text{ S/m}$; $\epsilon_r = 37.776$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2462 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2.4GWIFI Body Front/High Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0860 W/kg

2.4GWIFI Body Front/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurementgrid: $dx=5 \text{ mm}$, $dy=5 \text{ mm}$, $dz=5 \text{ mm}$

Reference Value = 2.517 V/m; Power Drift = 0.18 dB

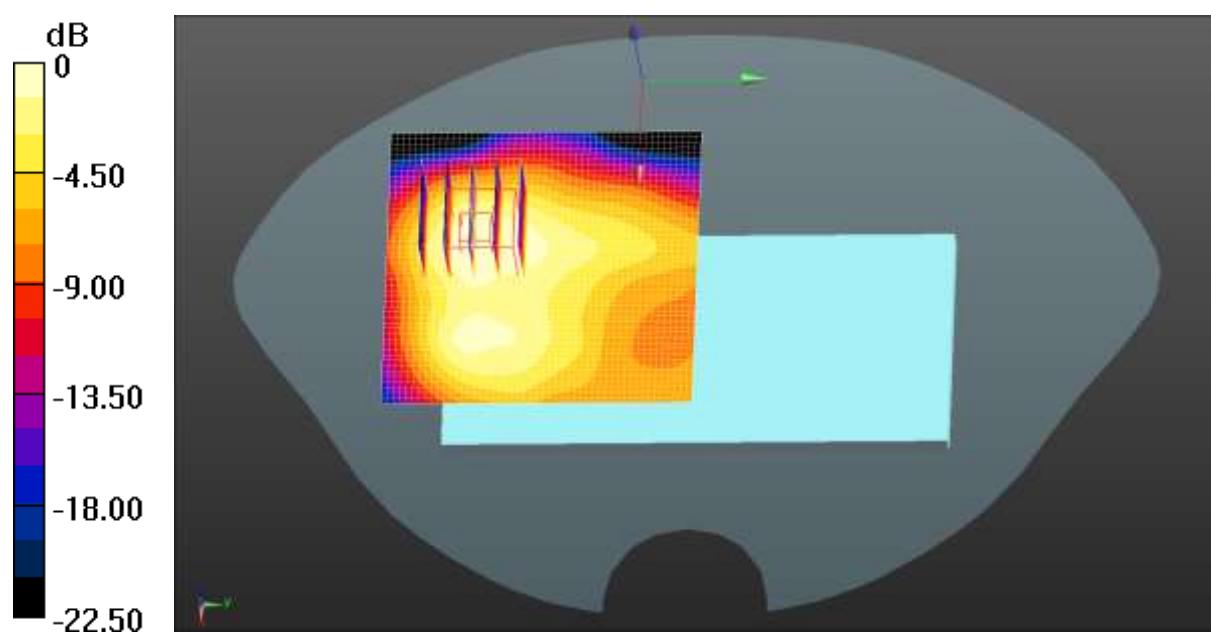
Peak SAR (extrapolated) = 0.103 W/kg

SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.027 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 0.0806 W/kg



Test Laboratory: JYTSZ

Date: 01.27.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, IEEE 802.11n20 WiFi 5GHz (0); Frequency: 5180

MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.747 \text{ S/m}$; $\epsilon_r = 36.366$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.41, 5.41, 5.41) @ 5180 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.2GWIFI Body Back/Low Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0744 W/kg

5.2GWIFI Body Back/Low Channel/Zoom Scan (7x7x7)/Cube 0: Measurementgrid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.096 V/m; Power Drift = 0.03 dB

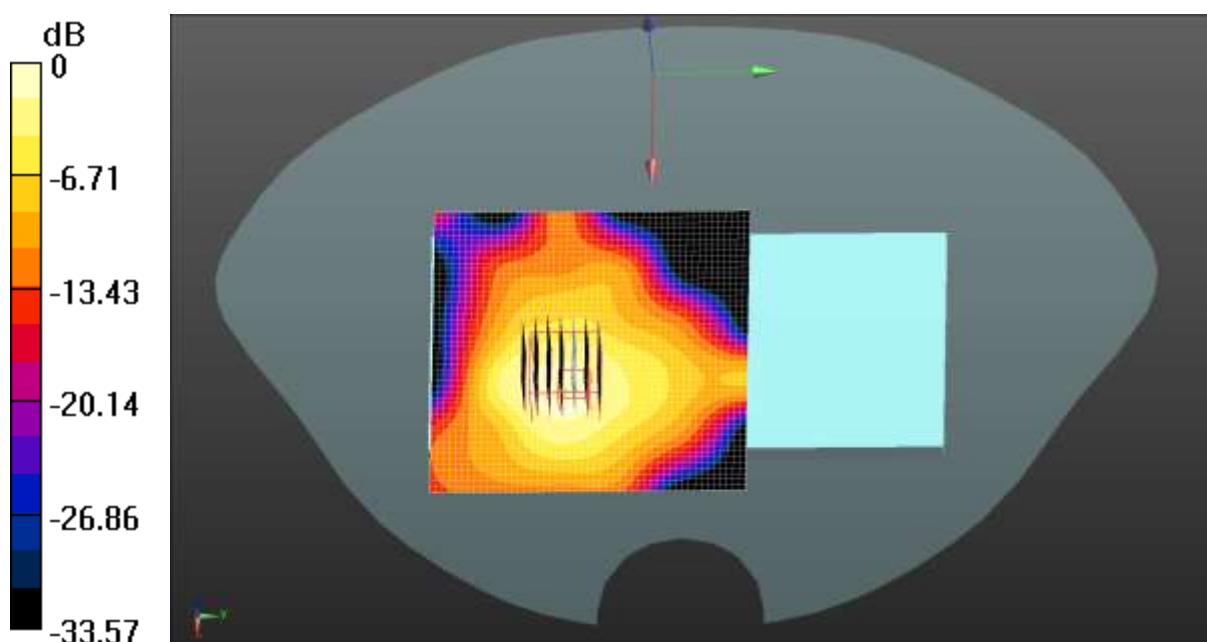
Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 18.9%

Maximum value of SAR (measured) = 0.0942 W/kg



$$0 \text{ dB} = 0.0942 \text{ W/kg} = -10.26 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.27.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5745$ MHz; $\sigma = 5.432$ S/m; $\epsilon_r = 35.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.9, 4.9, 4.9) @ 5745 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5.8GWIFI Body Back/Low Channel/Area Scan (51x51x1): Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.125 W/kg

5.8GWIFI Body Back/Low Channel/Zoom Scan (7x7x7)/Cube 0: Measurement

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

Reference Value = 0.2440 V/m; Power Drift = -0.05 dB

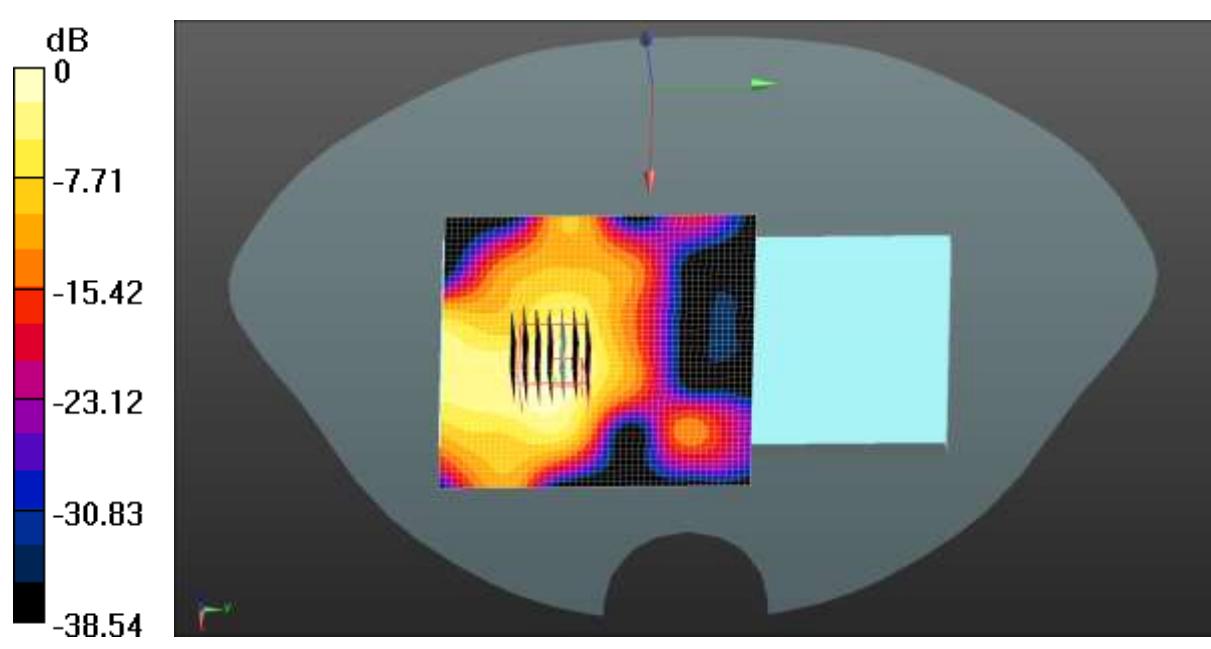
Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.012 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 11.1%

Maximum value of SAR (measured) = 0.115 W/kg



Test Laboratory: JYTSZ

Date: 01.16.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.712 \text{ S/m}$; $\epsilon_r = 37.769$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.6, 7.6, 7.6) @ 2441 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

BT Body Front/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0132 W/kg

BT Body Front/Middle Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5 \text{ mm}$, $dy=5 \text{ mm}$, $dz=5 \text{ mm}$

Reference Value = 0.9260 V/m; Power Drift = 0.01 dB

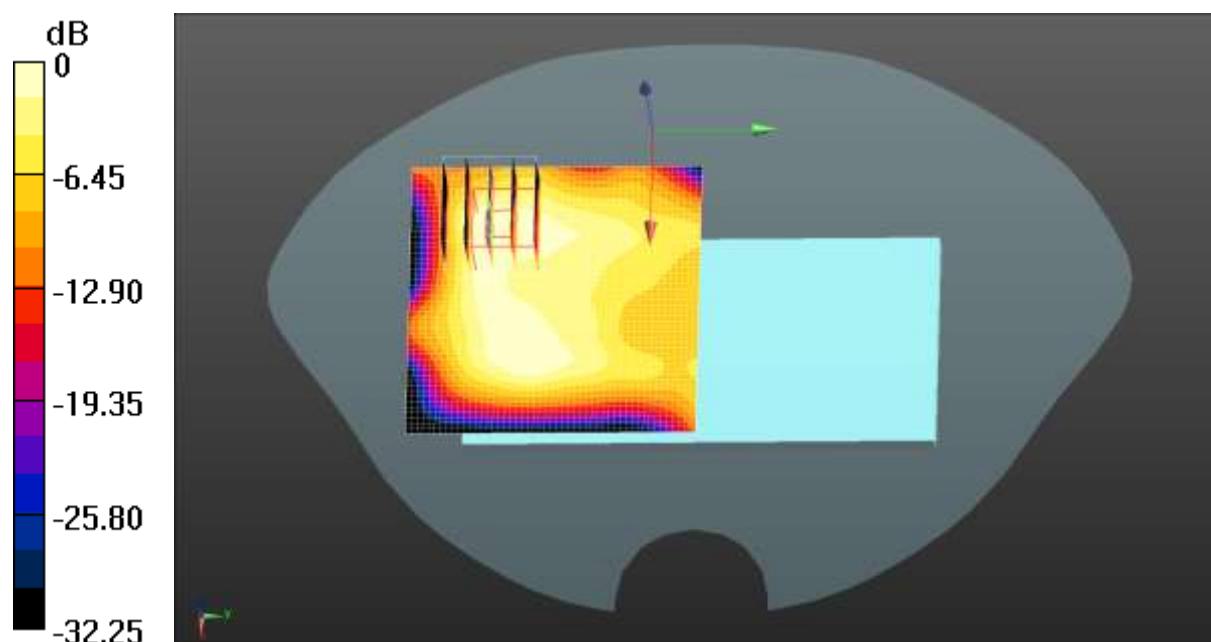
Peak SAR (extrapolated) = 0.0140 W/kg

SAR(1 g) = 0.00679 W/kg; SAR(10 g) = 0.00325 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 44.6%

Maximum value of SAR (measured) = 0.0111 W/kg



Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1.99986

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GPRS 850 4Slots Body Top/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.596 W/kg

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

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

Reference Value = 21.81 V/m; Power Drift = 0.15 dB

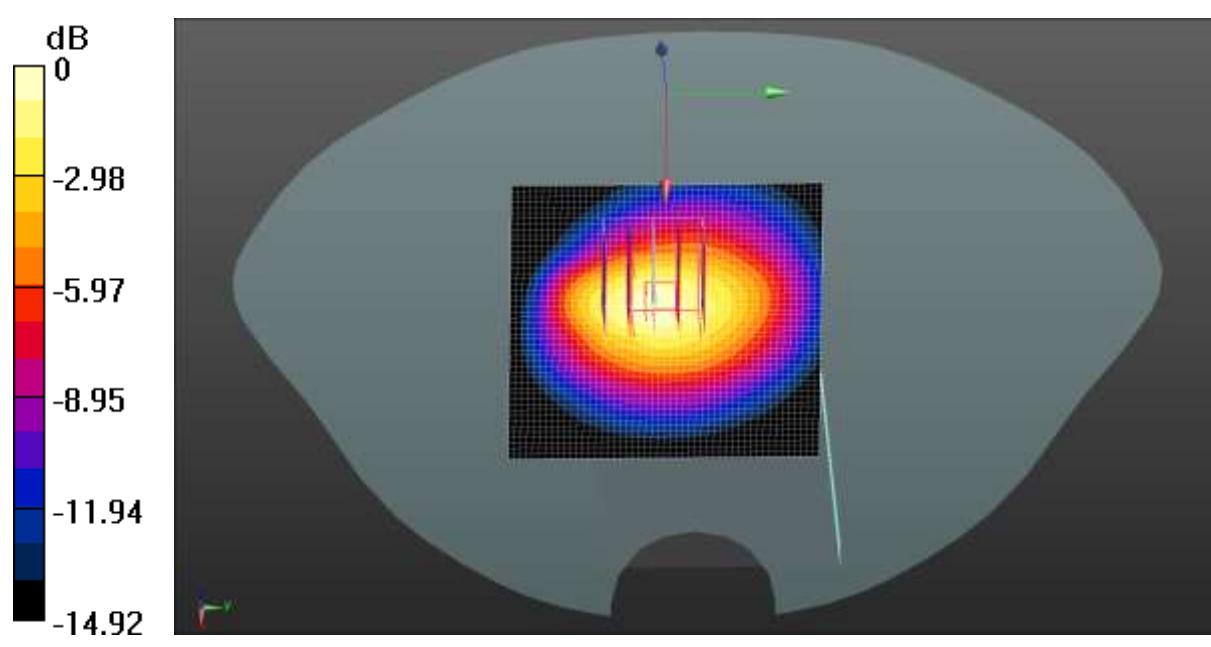
Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.233 W/kg

Smallest distance from peaks to all points 3 dB below = 13.2 mm

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

Maximum value of SAR (measured) = 0.615 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.341 \text{ S/m}$; $\epsilon_r = 38.335$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GPRS 1900 4Slots Body Top/Low Channel/Area Scan (31x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.308 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 = 15.70 V/m; Power Drift = -0.07 dB

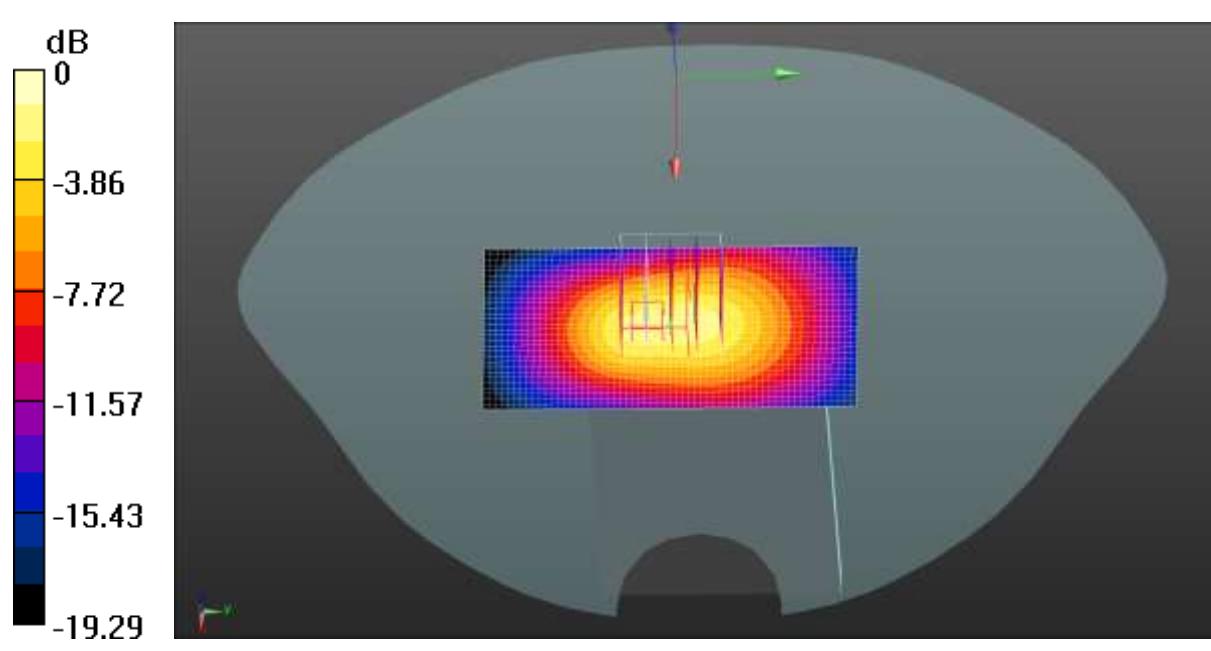
Peak SAR (extrapolated) = 0.547 W/kg

SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.143 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 0.427 W/kg



0 dB = 0.427 W/kg = -3.70 dBW/kg

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

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

Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.342 \text{ S/m}$; $\epsilon_r = 38.491$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1900 Body Top/Low Channel/Area Scan (31x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.103 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 = 9.953 V/m; Power Drift = -0.17 dB

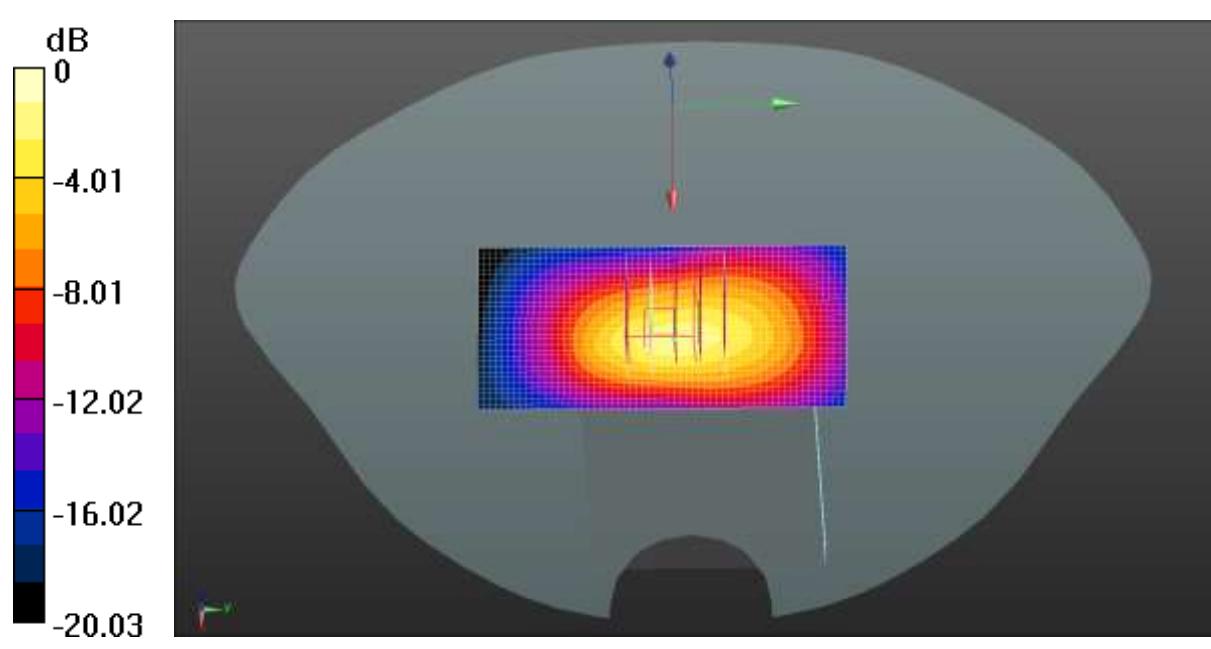
Peak SAR (extrapolated) = 0.190 W/kg

SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.047 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) = 0.154 W/kg



Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.331 \text{ S/m}$; $\epsilon_r = 38.475$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1752.6 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 1700 Body Top/High Channel/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0820 W/kg

WCDMA 1700 Body Top/High Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 8.780 V/m; Power Drift = -0.12 dB

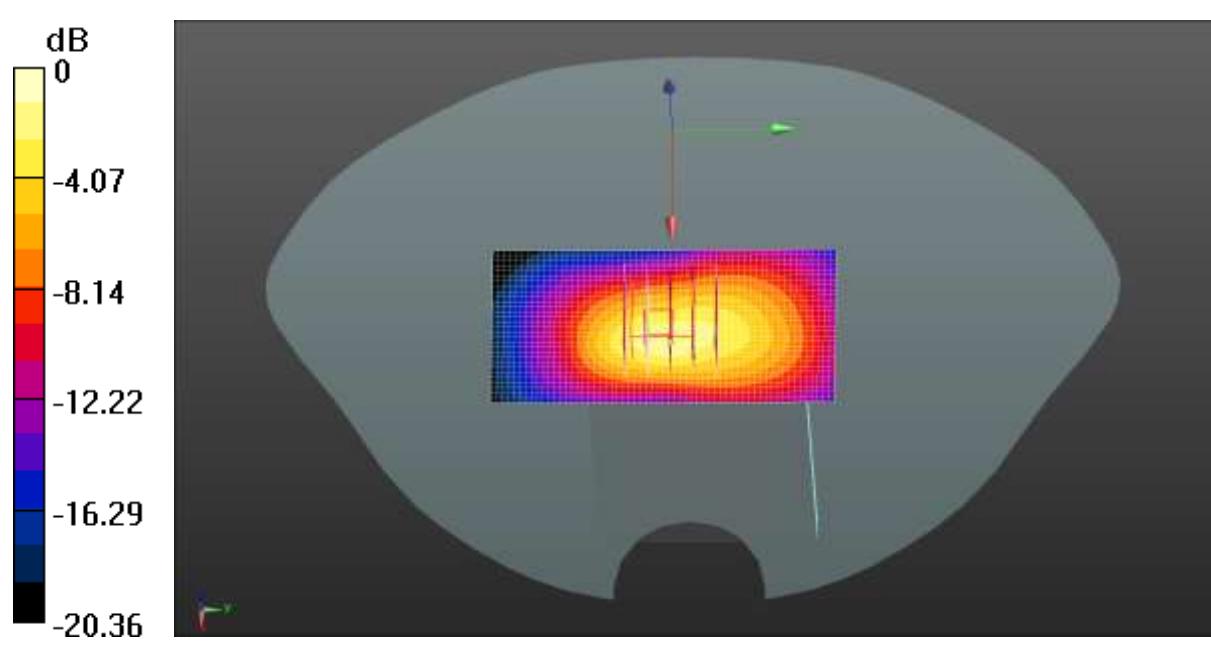
Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.039 W/kg

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

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

Maximum value of SAR (measured) = 0.117 W/kg



Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

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 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA 850 Body Top/Middle Channel/Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.229 W/kg

WCDMA 850 Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 14.10 V/m; Power Drift = 0.02 dB

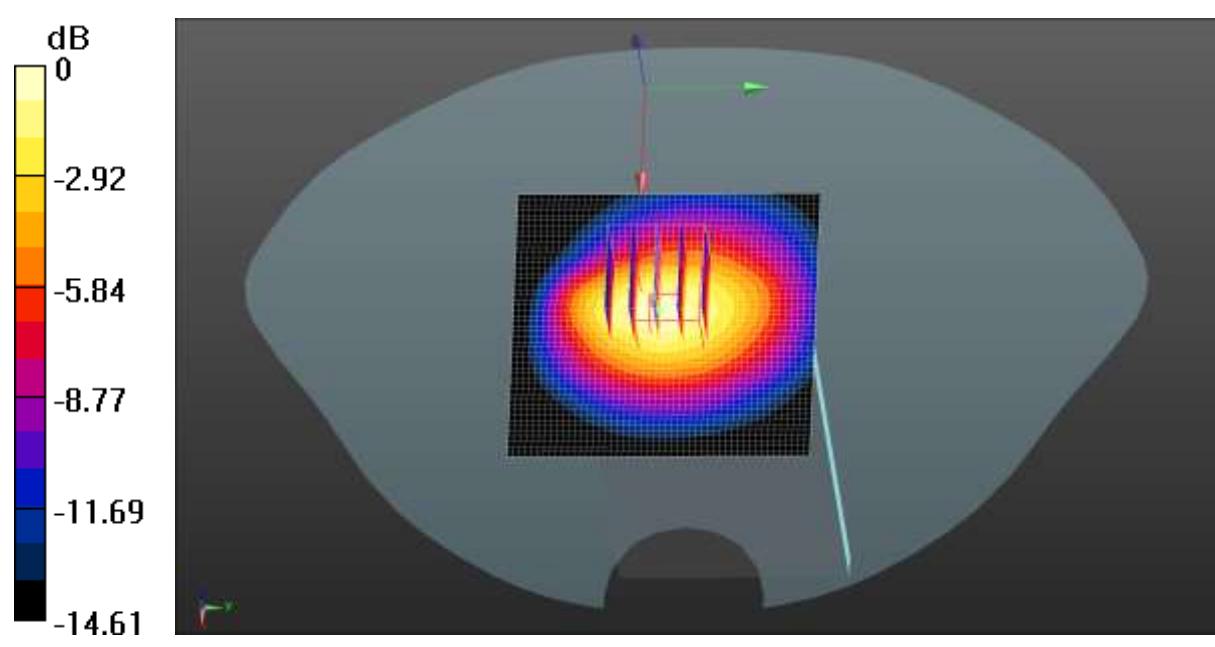
Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.095 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 0.238 W/kg



$$0 \text{ dB} = 0.238 \text{ W/kg} = -6.23 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.12.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 39.965$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN3924; ConvF(9.8, 9.8, 9.8) @ 836.5 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n5 1RB(20MHz) Body Top/Middle Channel/Area Scan (41x51x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.217 W/kg

NR n5 1RB(20MHz) Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.67 V/m; Power Drift = 0.01 dB

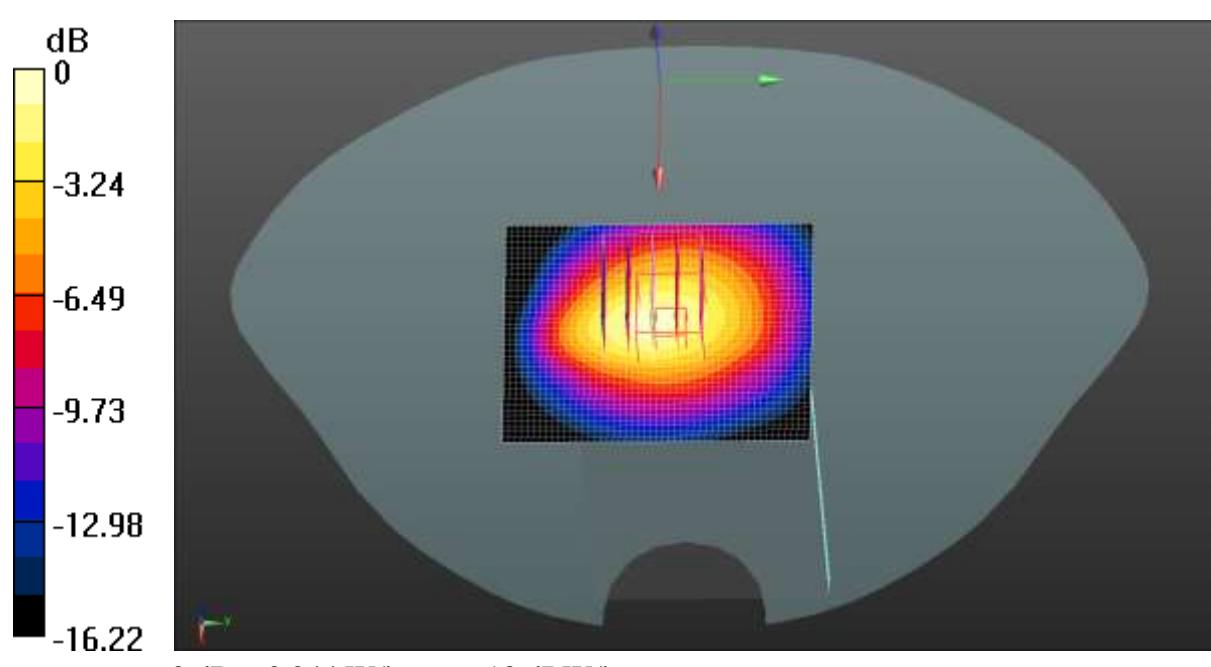
Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.093 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

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

Maximum value of SAR (measured) = 0.244 W/kg



$$0 \text{ dB} = 0.244 \text{ W/kg} = -6.13 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 01.13.2023

DUT: Mobile Phone; Type: X6710; Serial: 3#

Communication System: UID 0, NR (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.329 \text{ S/m}$; $\epsilon_r = 38.486$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.38, 8.38, 8.38) @ 1745 MHz; Calibrated: 01.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 06.06.2022
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR n66 50%RB(40MHz) Body Top/Middle Channel/Area Scan (31x61x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.433 W/kg

NR n66 50%RB(40MHz) Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.02 V/m; Power Drift = 0.16 dB

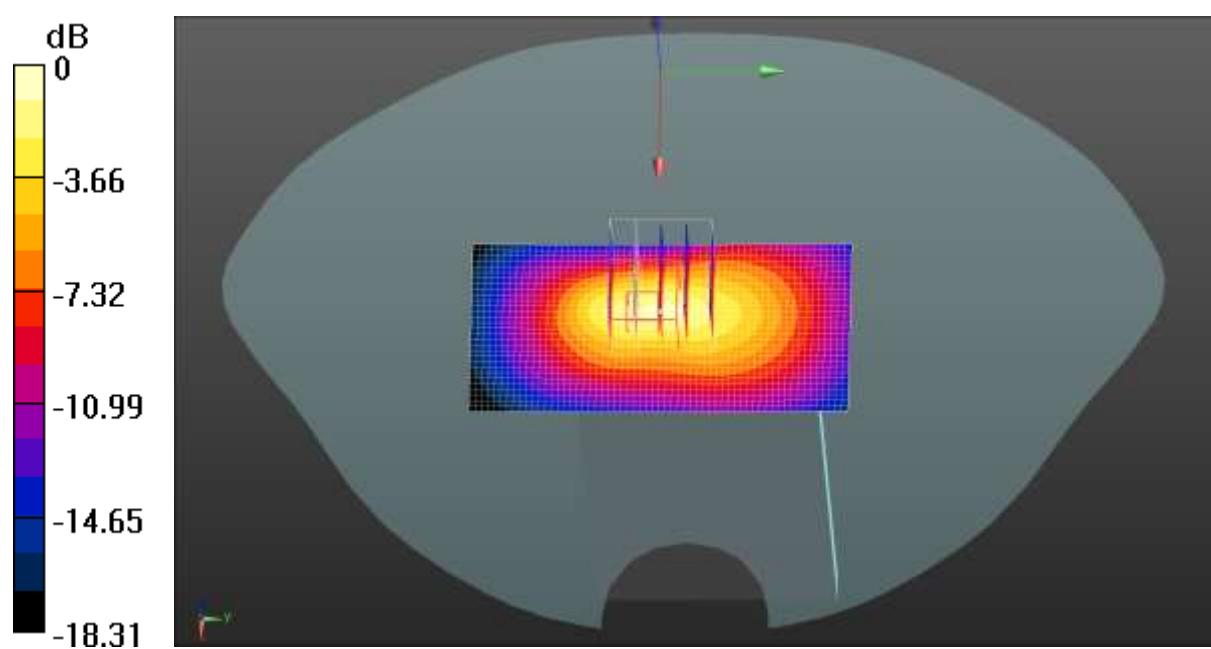
Peak SAR (extrapolated) = 0.727 W/kg

SAR(1 g) = 0.371 W/kg; SAR(10 g) = 0.186 W/kg

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

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

Maximum value of SAR (measured) = 0.524 W/kg



$$0 \text{ dB} = 0.524 \text{ W/kg} = -2.81 \text{ dBW/kg}$$

-----End of Report-----