FCC SAR Test Report

APPLICANT : CT Asia (HK) Ltd.

EQUIPMENT: Smartphone

BRAND NAME : BLU

MODEL NAME : DASH X LTE

FCC ID : YHLBLUDASHXLTE

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

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lac-MRA



Report No. : FA591106

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA591106	Rev. 01	Initial issue of report	Nov. 16, 2015

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for CT Asia (HK) Ltd., Smartphone, DASH X LTE are as follows.

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			Highest			
Equipment Class	Wireless Operated	Head (Separation 0mm)	Body-worn (Separation 10mm)	Wireless Router (Separation 10mm)	Simultaneous Transmission	
PCE	WWAN	0.69	1.15	1.15	1.20	
DTS	2.4GHz WLAN	0.10	< 0.10	< 0.10	1.20	
DSS	Bluetooth		< 0.10		1.16	
Date of	f Testing:	2015/10/27 ~ 2015/11/02				

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

2. Administration Data

Testing Laboratory						
Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
Test Site Location	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China					
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Applicant Applicant					
Company Name	CT Asia (HK) Ltd.				
Address	Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong				

Manufacturer					
Company Name	CT Asia (HK) Ltd.				
Address	Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong				

3. Guidance Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r04
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

4. Equipment Under Test (EUT) Information

4.1 General Information

	Product Feature & Specification
Equipment Name	Smartphone
Brand Name	BLU
Model Name	DASH X LTE
FCC ID	YHLBLUDASHXLTE
IMEI Code	SIM1: 353919027655012 SIM2: 353919027655962
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz UTE Band 17: 706.5 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA HSPA+ (16QAM uplink is not supported) LTE: QPSK, 16QAM 802.11b/g/n HT20/HT40 Bluetooth v3.0+EDR, Bluetooth v4.0 LE
HW Version	V1.0
SW Version	BLU_D0010UU_V02_GENERIC
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Domark:	

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Remark:

- 1. This device 2.4GHz supports hotspot operation.
- 2. This device supported VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP).
- 3. This device supports GRPS/EGPRS mode up to multi-slot class 33.
- 4. This device does not support DTM operation.
- 5. This device has 2 SIM slots and supports dual SIM dual Standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose dual SIM1 card to perform all tests.

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4.2 General LTE SAR Test and Reporting Considerations

Summarized ı	necessary item	s addres:	sed in Kl	DB 941	225 D05	v02r04			
FCC ID	YHLBLUDASH	/HLBLUDASHXLTE							
Equipment Name	Smartphone								
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz								
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz								
uplink modulations used	QPSK, and 16QAM								
LTE Voice / Data requirements	Data only								
	Table	6.2.3-1: Ma						MPR (dB)	
LTE MPR permanently built-in by design		1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	MPH (db)	
	QPSK	>5	>4	>8	> 12	> 16	> 18	≤1	
	16 QAM	≤ 5	≤4	≤8	≤ 12	≤ 16	≤ 18	≤1	
	16 QAM	>5	>4	>8	> 12	> 16	> 18	≤2	
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)								
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.								
LTE Release Version	R9. Cat 4								

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	Transmission (H, M, L) channel numbers and frequencies in each LTE band															
						LTE	Ва	ind 2								
	Bandwi MI	idth 1.4 Hz	Bandwid	th 3 MHz	Band	width 5 Mł	Hz	Bandwidtl	h 10 I	MHz	Bandwidth	15 MHz	Bandwid	Ith 20 MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch.	# Freq (MHz		Ch. #	Fre (MF		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	18607	1850.7	18615	1851.5	1862	25 1852	.5	18650	18	55	18675	1857.5	18700	1860		
M	18900	1880	18900	1880	1890	00 1880	0	18900	188	80	18900	1880	18900	1880		
Н	19193	1909.3	19185	1908.5	1917	75 1907	.5	19150	190	05	19125	1902.5	19100	1900		
						LTE	Ва	nd 4								
	Bandwi Ml		Bandwid	th 3 MHz	Band	width 5 Mł	Hz	Bandwidtl	h 10 I	MHz	Bandwidth	ı 15 MHz	Bandwid	lth 20 MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch.	# Freq (MHz		Ch. #	Fre (MF		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	19957	1710.7	19965	1711.5	1997	75 1712	.5	20000	17	15	20025	1717.5	20050	1720		
M	20175	1732.5	20175	1732.5	2017	75 1732	.5	20175	173	2.5	20175	1732.5	20175	1732.5		
Н	20393	1754.3	20385	1753.5	2037	75 1752	.5	20350	17	50	20325	1747.5	20300	1745		
						LTE	Ва	ind 7								
	Ban	dwidth 5	MHz	Band	dwidth	10 MHz		Bandwidth 15 MHz		Band	dwidth 20) MHz				
	Ch. #	Fi	eq. (MHz)	Ch. #	ŧ	Freq. (MH	z)	Ch. #		Fre	q. (MHz)	Ch. #	ŧ Fr	eq. (MHz)		
L	2077		2502.5	20800		2505		20825			2507.5	20850		2510		
M	21100)	2535	21100)	2535		21100			2535	21100)	2535		
Н	2142	5	2567.5	21400)	2565		21375	5	2	2562.5	21350)	2560		
						LTE	Baı	nd 12								
	Bandwidth 1.4 MHz			Ban	ıdwidth	3 MHz		Ban	dwidt	th 5 I	MHz	Band	dwidth 10) MHz		
			eq. (MHz)	Ch. #	# Freq. (MHz)		Ch.# F		z)	Ch. #		Fre	q. (MHz)	Ch. #	ŧ Fr	eq. (MHz)
L	23017	7	699.7	23025		700.5		23035	5		701.5	23060)	704		
M	2309		707.5	2309	5 707.5		707.5 23095		707.5		2309	5	707.5			
Н	23173	3	715.3	2316	5	714.5		23155	5		713.5	23130)	711		
						LTE	Baı	nd 17								
			Bandwid	th 5 MHz							Bandwidth	10 MHz				
		Channel	#	·	Freq.(N	ЛHz)			Chan	nel #	ŧ	F	req. (MH	lz)		
L		23755			706.	.5			237	'80			709			
M		23790			710)			237	'90		710				
Н		23825		713.5			23800		711							

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5. RF Exposure Limits

5.1 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.

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5.2 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. The 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.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists. Feet and Ankles		
0.08	1.6	4.0		

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

6. Specific Absorption Rate (SAR)

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 (p). The equation description is as below:

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

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

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

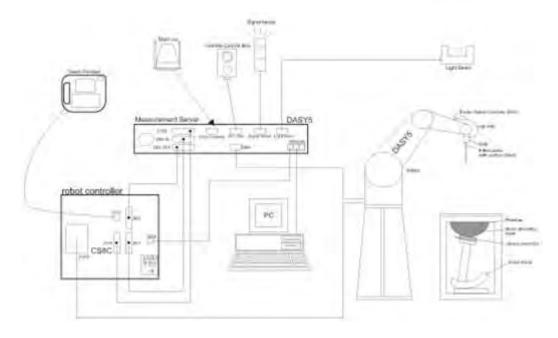
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7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.

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• The phantom, the device holder and other accessories according to the targeted measurement.

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8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

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- (b) Read the WWAN RF power level from the base station simulator.
- (c) 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
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) 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.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

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

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 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 10g 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 the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.2 Power Reference Measurement

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

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8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤3 GHz	> 3 GHz		
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°		
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz} \le 12 \text{ mm}$ $4 - 6 \text{ GHz} \le 10 \text{ mm}$		
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.			

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8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤3 GHz	> 3 GHz
Maximum zoom scan s	spatial reso	olution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 - 3 GHz: \leq 5 mm	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	$3 - 4 \text{ GHz}$: $\leq 4 \text{ mm}$ $4 - 5 \text{ GHz}$: $\leq 3 \text{ mm}$ $5 - 6 \text{ GHz}$: $\leq 2 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	graded grid		≤ 4 mm	$3 - 4 \text{ GHz}$: $\leq 3 \text{ mm}$ $4 - 5 \text{ GHz}$: $\leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}$: $\leq 2 \text{ mm}$
			$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	X V 7		≥ 30 mm	$3-4 \text{ GHz:} \ge 28 \text{ mm}$ $4-5 \text{ GHz:} \ge 25 \text{ mm}$ $5-6 \text{ GHz:} \ge 22 \text{ mm}$

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

8.5 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 postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 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.

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

9. Test Equipment List

Manufacturer	Name of Equipment	Turno/Mandal	Carried Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1065	Nov. 19, 2014	Nov. 18, 2015
SPEAG	835MHz System Validation Kit	D835V2	4d091	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1750MHz System Validation Kit	D1750V2	1069	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	Nov. 21, 2014	Nov. 20, 2015
SPEAG	2450MHz System Validation Kit	D2450V2	926	Jul. 24, 2015	Jul. 23, 2016
SPEAG	2600MHz System Validation Kit	D2600V2	1061	Nov. 19, 2014	Nov. 18, 2015
SPEAG	Data Acquisition Electronics	DAE4	1386	Feb. 19, 2015	Feb. 18, 2016
SPEAG	Data Acquisition Electronics	DAE4	1338	Nov. 14, 2014	Nov. 13, 2015
SPEAG	Dosimetric E-Field Probe	EX3DV4	3958	Feb. 26, 2015	Feb. 25, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3958	Jul. 23, 2015	Jul. 22, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3935	Nov. 18, 2014	Nov. 17, 2015
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1670	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Aug. 25, 2015	Aug. 24, 2016
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Aug. 07, 2015	Aug. 06, 2016
R&S	Network Analyzer	ZVB8	100106	Oct. 20, 2015	Oct. 19, 2016
Speag	Dielectric Assessment KIT	DAK-3.5	1032	NCR	NCR
R&S	Signal Generator	SMBV100A	258305	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Sensor	MA2411B	1207253	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Meter	ML2495A	1218010	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Senor	MA2411B	917070	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1005002	Jan. 23, 2015	Jan. 22, 2016
R&S	CBT BLUETOOTH TESTER	CBT	100963	Jan. 28, 2015	Jan. 27, 2016
R&S	Spectrum Analyzer	FSP7	101634	Aug. 07, 2015	Aug. 06, 2016
Agilent	Dual Directional Coupler	778D	50422	Note1	
MCL	Attenuation1	BW-S10W5	N/A	Note1	
Weinschel	Attenuation2	3M-20	N/A	Note1	
Zhongjilianhe	Attenuation3	MVE2214-03	N/A	Note1	
AR	Amplifier	551G4	333096	No	te1

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General Note:

Prior to system verification and validation, the path loss from the signal generator to the system check source and
the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the
network analyzer. The reading of the power meter was offset by the path loss difference between the path to the
power meter and the path to the system check source to monitor the actual power level fed to the system check
source.

10. System Verification

10.1 Tissue Verification

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

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tissue parameters required for routine SAR evaluation.

Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	(σ)	(εr)
				For Head				
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
				For Body				
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	68.1	0	0	0.1	0	31.8	2.16	52.5

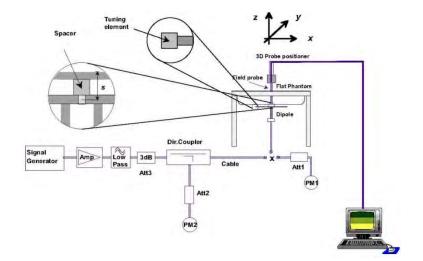
<Tissue Dielectric Parameter Check Results>

1133UE 1	< rissue Dielectric Parameter Check Results>									
Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.8	0.880	40.752	0.89	41.90	-1.12	-2.74	±5	Nov. 02, 2015
835	Head	22.9	0.887	41.987	0.90	41.50	-1.44	1.17	±5	Nov. 02, 2015
1750	Head	22.6	1.380	41.322	1.37	40.10	0.73	3.05	±5	Oct. 31, 2015
1900	Head	22.7	1.415	41.124	1.40	40.00	1.07	2.81	±5	Oct. 31, 2015
2450	Head	22.7	1.752	39.797	1.80	39.20	-2.67	1.52	±5	Oct. 29, 2015
2600	Head	22.5	2.056	37.575	1.96	39.00	4.90	-3.65	±5	Oct. 29, 2015
750	Body	22.7	0.970	54.642	0.96	55.50	1.04	-1.55	±5	Nov. 01, 2015
835	Body	22.5	1.011	56.243	0.97	55.20	4.23	1.89	±5	Nov. 01, 2015
1750	Body	22.8	1.524	52.564	1.49	53.40	2.28	-1.57	±5	Oct. 27, 2015
1750	Body	22.8	1.527	52.035	1.49	53.40	2.48	-2.56	±5	Oct. 28, 2015
1900	Body	22.9	1.581	54.208	1.52	53.30	4.01	1.70	±5	Oct. 27, 2015
1900	Body	22.9	1.519	53.569	1.52	53.30	-0.07	0.50	±5	Oct. 28, 2015
2450	Body	22.6	1.909	50.971	1.95	52.70	-2.10	-3.28	±5	Nov. 01, 2015
2600	Body	22.8	2.201	50.729	2.16	52.50	1.90	-3.37	±5	Oct. 30, 2015

10.2 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviati on (%)
Nov. 02, 2015	750	Head	250	1065	3935	1338	2.01	8.14	8.04	-1.23
Nov. 02, 2015	835	Head	250	4d091	3935	1338	2.36	9.11	9.44	3.62
Oct. 31, 2015	1750	Head	250	1069	3935	1338	9.75	37.10	39	5.12
Oct. 31, 2015	1900	Head	250	5d118	3935	1338	10.50	40.10	42	4.74
Oct. 29, 2015	2450	Head	250	926	3958	1386	13.00	52.10	52	-0.19
Oct. 29, 2015	2600	Head	250	1061	3958	1386	15.01	56.90	60.04	5.52
Nov. 01, 2015	750	Body	250	1065	3935	1338	1.99	8.64	7.96	-7.87
Nov. 01, 2015	835	Body	250	4d091	3935	1338	2.42	9.60	9.68	0.83
Oct. 27, 2015	1750	Body	250	1069	3958	1386	9.12	38.10	36.48	-4.25
Oct. 28, 2015	1750	Body	250	1069	3958	1386	9.14	38.10	36.56	-4.04
Oct. 27, 2015	1900	Body	250	5d118	3958	1386	9.71	40.00	38.84	-2.90
Oct. 28, 2015	1900	Body	250	5d118	3958	1386	9.43	40.00	37.72	-5.70
Nov. 01, 2015	2450	Body	250	926	3935	1338	12.10	51.70	48.4	-6.38
Oct. 30, 2015	2600	Body	250	1061	3958	1386	13.30	54.90	53.2	-3.10





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Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

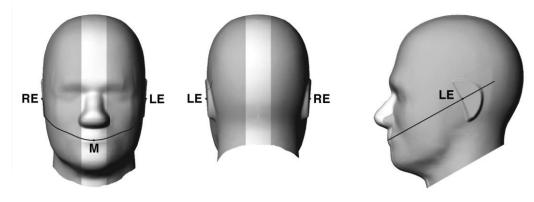


Fig 9.1.1 Front, back, and side views of SAM twin phantom

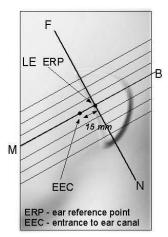
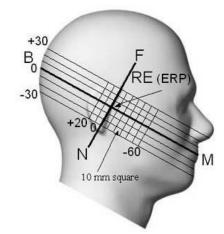


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 Definition of the cheek position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). 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 centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- 5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line. 6.
- While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

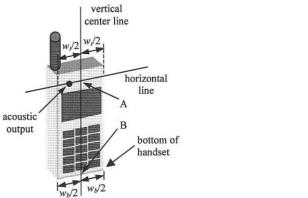
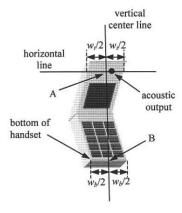
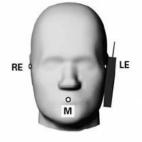


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case



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Fig 9.2.2 Handset vertical and horizontal reference lines-"clam-shell case"



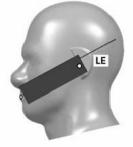




Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.

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- 2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- 3. Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

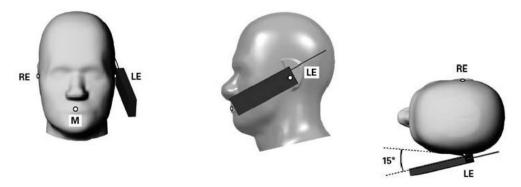
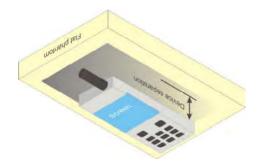


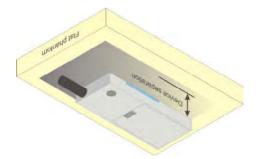
Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.





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Fig 9.4 Body Worn Position

11.5 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W \ge 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form 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 due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

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- 2. Per KDB 941225 D01v03r01, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM and GPRS and EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.
- 3. Per KDB 941225 D01v03r01, for Hotspot SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance, for modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested, therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.

Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Po	wer (dBm)	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	31.81	31.85	<mark>31.88</mark>	32.50	22.81	22.85	22.88	23.50
GPRS (GMSK, 1 Tx slot)	31.76	31.78	31.82	32.50	22.76	22.78	22.82	23.50
GPRS (GMSK, 2 Tx slots)	30.92	30.94	30.98	31.50	24.92	24.94	24.98	25.50
GPRS (GMSK, 3 Tx slots)	29.71	29.75	29.76	30.50	25.45	25.49	25.50	26.24
GPRS (GMSK, 4 Tx slots)	28.60	28.65	28.72	29.50	25.60	25.65	<mark>25.72</mark>	26.50
EDGE (8PSK, 1 Tx slot)	26.51	26.63	26.64	27.00	17.51	17.63	17.64	18.00
EDGE (8PSK, 2 Tx slots)	26.41	26.54	26.55	27.00	20.41	20.54	20.55	21.00
EDGE (8PSK, 3 Tx slots)	25.88	25.93	25.95	26.50	21.62	21.67	21.69	22.24
EDGE (8PSK, 4 Tx slots)	25.26	25.35	25.37	25.50	22.26	22.35	22.37	22.50
				_				
Band GSM1900	Burst Ave			Tune-up			wer (dBm)	Tune-up
Band GSM1900 TX Channel	Burst Ave			Tune-up Limit				Tune-up Limit
		rage Pov	ver (dBm)	Tune-up	Frame-Av	erage Po	wer (dBm)	Tune-up
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512	erage Pov 661	ver (dBm) 810	Tune-up Limit	Frame-Av 512	erage Po 661	wer (dBm) 810	Tune-up Limit
TX Channel Frequency (MHz)	512 1850.2	erage Pov 661 1880	ver (dBm) 810 1909.8	Tune-up Limit (dBm)	Frame-Av 512 1850.2	erage Po 661 1880	wer (dBm) 810 1909.8	Tune-up Limit (dBm)
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512 1850.2 29.28	661 1880 29.39	ver (dBm) 810 1909.8 29.59	Tune-up Limit (dBm) 30.00	Frame-Av 512 1850.2 20.28	erage Po 661 1880 20.39	wer (dBm) 810 1909.8 20.59	Tune-up Limit (dBm) 21.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot)	512 1850.2 29.28 29.27	661 1880 29.39 29.38	ver (dBm) 810 1909.8 29.59 29.56	Tune-up Limit (dBm) 30.00 30.00	Frame-Av 512 1850.2 20.28 20.27	erage Po 661 1880 20.39 20.38	wer (dBm) 810 1909.8 20.59 20.56	Tune-up Limit (dBm) 21.00 21.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots)	512 1850.2 29.28 29.27 28.43	661 1880 29.39 29.38 28.52	ver (dBm) 810 1909.8 29.59 29.56 28.64	Tune-up Limit (dBm) 30.00 30.00 29.00	512 1850.2 20.28 20.27 22.43	erage Po 661 1880 20.39 20.38 22.52	wer (dBm) 810 1909.8 20.59 20.56 22.64	Tune-up Limit (dBm) 21.00 21.00 23.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots)	512 1850.2 29.28 29.27 28.43 27.39	erage Pov 661 1880 29.39 29.38 28.52 27.46	ver (dBm) 810 1909.8 29.59 29.56 28.64 27.58	Tune-up Limit (dBm) 30.00 30.00 29.00 28.00	Frame-Av 512 1850.2 20.28 20.27 22.43 23.13	erage Po 661 1880 20.39 20.38 22.52 23.20	wer (dBm) 810 1909.8 20.59 20.56 22.64 23.32	Tune-up Limit (dBm) 21.00 21.00 23.00 23.74
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots) GPRS (GMSK, 4 Tx slots)	512 1850.2 29.28 29.27 28.43 27.39 26.15	erage Pov 661 1880 29.39 29.38 28.52 27.46 26.28	ver (dBm) 810 1909.8 29.59 29.56 28.64 27.58 26.36	Tune-up Limit (dBm) 30.00 30.00 29.00 28.00 27.00	Frame-Av 512 1850.2 20.28 20.27 22.43 23.13 23.15	erage Po 661 1880 20.39 20.38 22.52 23.20 23.28	wer (dBm) 810 1909.8 20.59 20.56 22.64 23.32 23.36	Tune-up Limit (dBm) 21.00 21.00 23.00 23.74 24.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots) GPRS (GMSK, 4 Tx slots) EDGE (8PSK, 1 Tx slot)	512 1850.2 29.28 29.27 28.43 27.39 26.15 25.39	erage Pov 661 1880 29.39 29.38 28.52 27.46 26.28 25.52	ver (dBm) 810 1909.8 29.59 29.56 28.64 27.58 26.36 25.61	Tune-up Limit (dBm) 30.00 30.00 29.00 28.00 27.00 26.00	Frame-Av 512 1850.2 20.28 20.27 22.43 23.13 23.15 16.39	erage Po 661 1880 20.39 20.38 22.52 23.20 23.28 16.52	wer (dBm) 810 1909.8 20.59 20.56 22.64 23.32 23.36 16.61	Tune-up Limit (dBm) 21.00 21.00 23.00 23.74 24.00 17.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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< WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

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A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	βο	βd	β _d (SF)	β₀/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0,0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with β_{ts} = 30/15 * β_c .

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

with $\beta_{ls} = 24/15 * \beta_c$.

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

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

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting *:
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121

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- iii. Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
- vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

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

Sub- test	βς	βa	β _d (SF)	βc/βd	βнs (Note1)	βес	β _{ed} (Note 5) (Note 6)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

- Note 1: $\Delta_{\rm ACK}$, $\Delta_{\rm NACK}$ and $\Delta_{\rm CQI}$ = 30/15 with β_{hs} = 30/15 * β_c .
- Note 2: CM = 1 for $\beta_0/\beta_d = 12/15$, $\beta_{1s}/\beta_c = 24/15$. 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_d/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by
- setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15. Note 4: For subtest 5 the β_d/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by
- setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15. Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to
- TS25.306 Table 5.1g. Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Setup Configuration

<WCDMA Conducted Power>

General Note:

Per KDB 941225 D01v03r01, SAR for Head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA.

	Band	WC	DMA Baı	nd V	_	WC	DMA Baı	nd II	Tune-un
T)	X Channel	4132	4182	4233	Tune-up Limit	9262	9400	9538	Tune-up Limit
R	x Channel	4357	4407	4458	(dBm)	9662	9800	9938	(dBm)
Freq	826.4	836.4	846.6	(dBIII)	1852.4	1880	1907.6	(dDIII)	
3GPP Rel 99	AMR 12.2Kbps	22.92	23.04	22.94	23.50	22.47	22.49	22.67	23.00
3GPP Rel 99	RMC 12.2Kbps	22.93	23.05	22.96	23.50	22.48	22.51	22.69	23.00
3GPP Rel 6	HSDPA Subtest-1	21.57	21.72	21.56	22.00	21.23	21.32	21.31	21.50
3GPP Rel 6	HSDPA Subtest-2	21.63	21.76	21.71	22.00	21.16	21.24	21.29	21.50
3GPP Rel 6	HSDPA Subtest-3	20.78	21.28	21.22	21.50	20.66	20.75	20.84	21.00
3GPP Rel 6	HSDPA Subtest-4	21.14	21.28	21.22	21.50	20.66	20.75	20.84	21.00
3GPP Rel 6	HSUPA Subtest-1	21.02	21.01	21.46	21.50	20.58	21.04	20.68	21.50
3GPP Rel 6	HSUPA Subtest-2	20.63	20.67	20.21	21.00	20.02	19.72	20.16	20.50
3GPP Rel 6	HSUPA Subtest-3	20.21	20.29	20.31	21.00	19.82	19.42	19.80	20.50
3GPP Rel 6	6 HSUPA Subtest-4		20.95	20.57	21.50	20.40	20.01	20.37	21.00
3GPP Rel 6	HSUPA Subtest-5	21.60	21.60	21.70	22.00	21.10	21.10	21.10	21.50

E	3and	V	WCDMA Band I	V	_
TX	Channel	1312	1413	1513	Tune-up Limit
Rx (Channel	1537	1638	1738	(dBm)
Freque	1712.4	1732.6	1752.6	(dBiii)	
3GPP Rel 99	AMR 12.2Kbps	23.56	23.53	23.84	24.50
3GPP Rel 99	RMC 12.2Kbps	23.58	23.55	<mark>23.86</mark>	24.50
3GPP Rel 6	HSDPA Subtest-1	22.15	22.20	22.53	23.00
3GPP Rel 6	HSDPA Subtest-2	22.10	22.18	22.48	23.00
3GPP Rel 6	HSDPA Subtest-3	21.60	21.34	22.00	22.50
3GPP Rel 6	HSDPA Subtest-4	21.60	21.69	21.98	22.50
3GPP Rel 6	HSUPA Subtest-1	21.78	21.62	22.45	23.00
3GPP Rel 6	HSUPA Subtest-2	21.11	21.17	21.21	21.50
3GPP Rel 6	I 6 HSUPA Subtest-3		20.86	21.03	21.50
3GPP Rel 6	3GPP Rel 6 HSUPA Subtest-4		21.24	21.30	21.50
3GPP Rel 6	HSUPA Subtest-5	22.10	22.30	22.30	22.50

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<LTE Conducted Power>

General Note:

 Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.

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- 2. Per KDB 941225 D05v02r04, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
- 3. Per KDB 941225 D05v02r04, 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 for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 4. Per KDB 941225 D05v02r04, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r04, 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 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
- 6. Per KDB 941225 D05v02r04, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r04, 16QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r04, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r04, smaller bandwidth SAR testing is not required.
- 8. For LTE B12 / B4 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r04, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 9. LTE band 17 SAR test was covered by Band 12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

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<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Char	nnel		23060	23095	23130	(dBm)	(dB)
	Frequenc	y (MHz)		704	707.5	711		
10	QPSK	1	0	23.15	23.23	23.27		
10	QPSK	1	25	23.15	23.12	23.21	24.00	0
10	QPSK	1	49	23.18	23.25	<mark>23.36</mark>		
10	QPSK	25	0	22.16	22.13	21.94		
10	QPSK	25	12	22.09	22.11	22.16	23.00	0-1
10	QPSK	25	25	22.27	22.15	22.28	23.00	0-1
10	QPSK	50	0	22.18	22.16	22.26		
10	16QAM	1	0	22.54	22.70	22.68		
10	16QAM	1	25	22.42	22.49	22.17	23.00	0-1
10	16QAM	1	49	22.71	22.48	22.80		
10	16QAM	25	0	21.15	21.27	21.40		
10	16QAM	25	12	21.19	21.21	21.22	00.00	0.0
10	16QAM	25	25	21.36	21.01	21.35	22.00	0-2
10	16QAM	50	0	21.24	21.27	21.40		
	Char	nnel		23035	23095	23155	Tune-up	MPR
	Frequenc	y (MHz)		701.5	707.5	713.5	limit (dBm)	(dB)
5	QPSK	1	0	23.10	23.22	23.16		
5	QPSK	1	12	23.29	23.26	23.30	24.00	0
5	QPSK	1	24	23.12	23.24	23.25		
5	QPSK	12	0	21.96	22.02	22.03		
5	QPSK	12	7	22.02	22.35	22.14	23.00	0-1
5	QPSK	12	13	22.10	22.17	22.25	23.00	0-1
5	QPSK	25	0	22.11	22.10	22.14		
5	16QAM	1	0	22.70	22.80	22.81		_
5	16QAM	1	12	22.18	22.25	21.89	23.00	0-1
5	16QAM	1	24	22.48	22.56	22.65		
5	16QAM	12	0	20.94	21.03	21.03		
5	16QAM	12	7	21.34	21.18	21.09	22.00	0-2
5	16QAM	12	13	21.08	20.95	21.18	22.00	0-2
5	16QAM	25	0	21.16	21.17	21.15		

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	Char	nnel		23025	23095	23165	Tune-up	MPR
	Frequenc	cy (MHz)		700.5	707.5	714.5	limit (dBm)	(dB)
3	QPSK	1	0	23.15	23.20	23.06		
3	QPSK	1	8	22.87	23.30	23.21	24.00	0
3	QPSK	1	14	23.14	23.21	23.31		
3	QPSK	8	0	22.08	22.21	22.51		
3	QPSK	8	4	22.16	22.32	22.40	00.00	0.4
3	QPSK	8	7	22.21	22.36	22.42	23.00	0-1
3	QPSK	15	0	22.13	22.30	22.41		
3	16QAM	1	0	22.11	22.26	22.24		
3	16QAM	1	8	22.16	21.95	22.17	23.00	0-1
3	16QAM	1	14	22.39	22.17	22.30		
3	16QAM	8	0	21.27	21.52	21.50		
3	16QAM	8	4	21.28	21.44	21.60	22.00	0-2
3	16QAM	8	7	21.34	21.31	21.65	22.00	0-2
3	16QAM	15	0	21.25	21.13	21.12		
	Char	nnel		23017	23095	23173	Tune-up	MPR
	Frequenc	cy (MHz)		699.7	707.5	715.3	limit (dBm)	(dB)
1.4	QPSK	1	0	23.06	22.93	23.22		
1.4	QPSK	1	3	23.03	23.16	23.17		
1.4	QPSK	1	5	22.90	23.02	23.19	24.00	0
1.4	QPSK	3	0	23.00	23.03	23.18	24.00	U
1.4	QPSK	3	1	23.02	23.08	23.32		
1.4	QPSK	3	3	23.02	23.20	23.15		
1.4	QPSK	6	0	22.10	22.09	22.35	23.00	0-1
1.4	16QAM	1	0	22.08	21.76	22.44		
1.4	16QAM	1	3	21.89	22.17	22.35		
1.4	16QAM	1	5	21.67	21.76	22.29	23.00	0-1
1.4	16QAM	3	0	22.11	21.90	22.13	23.00	U- I
1.4	16QAM	3	1	22.55	22.27	22.42		
1.4	16QAM	3	3	22.54	22.28	22.35		
1.4	16QAM	6	0	20.81	21.06	21.03	22.00	0-2

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<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Char	nnel		23780	23790	23800	(dBm)	(dB)
	Frequency (MHz)				710	711		
10	QPSK	1	0	23.40	23.10	23.34		
10	QPSK	1	25	23.38	23.45	23.30	24.00	0
10	QPSK	1	49	23.47	<mark>23.49</mark>	23.35		
10	QPSK	25	0	22.36	22.37	22.30		
10	QPSK	25	12	22.27	22.33	22.25	23.00	0-1
10	QPSK	25	25	22.34	22.35	22.25	23.00	0-1
10	QPSK	50	0	22.30	22.34	22.29		
10	16QAM	1	0	22.31	22.61	22.07		
10	16QAM	1	25	21.90	22.08	22.25	23.00	0-1
10	16QAM	1	49	21.79	22.63	22.54		
10	16QAM	25	0	21.32	21.08	21.32		
10	16QAM	25	12	21.34	21.26	21.31	00.00	0.0
10	16QAM	25	25	21.33	21.24	21.30	22.00	0-2
10	16QAM	50	0	21.22	21.22	21.18		
	Char	nnel		23755	23790	23825	Tune-up	MPR
	Frequenc	y (MHz)		706.5	710	713.5	limit (dBm)	(dB)
5	QPSK	1	0	23.19	23.29	23.12		
5	QPSK	1	12	23.40	23.46	23.42	24.00	0
5	QPSK	1	24	23.02	23.24	23.34		
5	QPSK	12	0	22.16	22.18	22.19		
5	QPSK	12	7	22.22	22.23	22.22	22.00	0-1
5	QPSK	12	13	22.21	22.27	22.30	23.00	U- I
5	QPSK	25	0	22.35	22.34	22.28		
5	16QAM	1	0	22.29	22.56	22.36		
5	16QAM	1	12	22.44	22.54	21.96	23.00	0-1
5	16QAM	1	24	22.62	22.42	22.83		
5	16QAM	12	0	21.07	21.09	21.21		
5	16QAM	12	7	21.18	21.15	21.15	22.00	0.0
5	16QAM	12	13	21.17	21.29	21.22	22.00	0-2
5	16QAM	25	0	21.28	21.39	21.31		

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<LTE Band 4>

				Power	Power	Power		
BW [MHz]	Modulation	RB Size	RB Offset	Low	Middle	High	Tune-up	
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	limit	MPR
	Char	nnel		20050	20175	20300	(dBm)	(dB)
	Frequency (MHz)				1732.5	1745		
20	QPSK	1	0	23.55	23.56	<mark>23.60</mark>		
20	QPSK	1	49	23.54	23.39	23.42	24.00	0
20	QPSK	1	99	23.01	23.37	23.58		
20	QPSK	50	0	22.38	22.52	22.58		
20	QPSK	50	24	22.37	22.26	22.43	23.00	0-1
20	QPSK	50	50	22.33	22.27	22.45	23.00	0-1
20	QPSK	100	0	22.37	22.41	22.46		
20	16QAM	1	0	22.72	22.90	22.95		
20	16QAM	1	49	22.57	22.23	22.47	23.00	0-1
20	16QAM	1	99	22.41	22.64	22.88		
20	16QAM	50	0	21.39	21.34	21.58		
20	16QAM	50	24	21.29	21.21	21.43	22.00	0.0
20	16QAM	50	50	21.25	21.48	21.46	22.00	0-2
20	16QAM	100	0	21.37	21.42	21.38		
	Char	nnel		20025	20175	20325	Tune-up	MPR
	Frequenc	y (MHz)		1717.5	1732.5	1747.5	limit (dBm)	(dB)
15	QPSK	1	0	23.44	23.52	23.58		
15	QPSK	1	37	23.36	23.26	23.36	24.00	0
15	QPSK	1	74	23.28	23.47	23.55		
15	QPSK	36	0	22.44	22.46	22.53		
15	QPSK	36	20	22.38	22.27	22.44	23.00	0-1
15	QPSK	36	39	22.43	22.37	22.65	23.00	0-1
15	QPSK	75	0	22.39	22.37	22.51		
15	16QAM	1	0	22.94	22.92	22.95		
15	16QAM	1	37	22.65	22.33	22.76	23.00	0-1
15	16QAM	1	74	22.69	22.50	22.90		
15	16QAM	36	0	21.49	21.40	21.54		
15	16QAM	36	20	21.43	21.28	21.54	20.00	0.0
15	16QAM	36	39	21.40	21.39	21.57	22.00	0-2
15	16QAM	75	0	21.45	21.40	21.53		

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	Chai	nnel		20000	20175	20350	Tune-up	MPR
	Frequenc	cy (MHz)		1715	1732.5	1750	limit (dBm)	(dB)
10	QPSK	1	0	23.39	23.55	23.52		
10	QPSK	1	25	23.43	23.36	23.43	24.00	0
10	QPSK	1	49	23.55	23.30	23.56		
10	QPSK	25	0	22.27	22.53	22.48		
10	QPSK	25	12	22.30	22.26	22.39	22.00	0.4
10	QPSK	25	25	22.48	22.25	22.49	23.00	0-1
10	QPSK	50	0	22.44	22.31	22.54		
10	16QAM	1	0	22.52	22.76	22.94		
10	16QAM	1	25	22.66	22.42	22.82	23.00	0-1
10	16QAM	1	49	22.85	22.68	22.88		
10	16QAM	25	0	21.30	21.50	21.81		
10	16QAM	25	12	21.56	21.30	21.43	22.00	0-2
10	16QAM	25	25	21.54	21.23	21.72	22.00	
10	16QAM	50	0	21.47	21.28	21.57		
	Chai	nnel		19975	20175	20375	Tune-up	MPR
	Frequency (MHz)			1712.5	4700 F		limit	(
		y (IVII I <i>Z)</i>		17 12.5	1732.5	1752.5	(dBm)	(dB)
5	QPSK	1	0	23.38	23.38	1752.5 23.57	(dBm)	(dB)
5 5		· , ,	0 12				(dBm) 24.00	0 (dB)
	QPSK	1		23.38	23.38	23.57		
5	QPSK QPSK	1 1	12	23.38 23.32	23.38 23.52	23.57 23.55		
5 5	QPSK QPSK QPSK	1 1 1	12 24	23.38 23.32 23.33	23.38 23.52 23.34	23.57 23.55 23.38	24.00	0
5 5 5	QPSK QPSK QPSK QPSK	1 1 1 1	12 24 0	23.38 23.32 23.33 22.15	23.38 23.52 23.34 22.36	23.57 23.55 23.38 22.44		
5 5 5 5	QPSK QPSK QPSK QPSK QPSK	1 1 1 1 12 12	12 24 0 7	23.38 23.32 23.33 22.15 22.09	23.38 23.52 23.34 22.36 22.19	23.57 23.55 23.38 22.44 22.39	24.00	0
5 5 5 5 5	QPSK QPSK QPSK QPSK QPSK QPSK	1 1 1 12 12 12	12 24 0 7 13	23.38 23.32 23.33 22.15 22.09 22.32	23.38 23.52 23.34 22.36 22.19 22.26	23.57 23.55 23.38 22.44 22.39 22.53	24.00	0
5 5 5 5 5 5	QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1 1 1 12 12 12 12 25	12 24 0 7 13	23.38 23.32 23.33 22.15 22.09 22.32 22.27	23.38 23.52 23.34 22.36 22.19 22.26 22.38	23.57 23.55 23.38 22.44 22.39 22.53 22.52	24.00	0
5 5 5 5 5 5	QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1 1 1 12 12 12 12 25 1	12 24 0 7 13 0	23.38 23.32 23.33 22.15 22.09 22.32 22.27 22.65	23.38 23.52 23.34 22.36 22.19 22.26 22.38 22.76	23.57 23.55 23.38 22.44 22.39 22.53 22.52 22.78	24.00	0
5 5 5 5 5 5 5	QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 24 0 7 13 0 0	23.38 23.32 23.33 22.15 22.09 22.32 22.27 22.65 22.44	23.38 23.52 23.34 22.36 22.19 22.26 22.38 22.76 22.43	23.57 23.55 23.38 22.44 22.39 22.53 22.52 22.78 22.70	24.00	0
5 5 5 5 5 5 5 5	QPSK QPSK QPSK QPSK QPSK QPSK QPSK 16QAM 16QAM	1 1 1 12 12 12 12 25 1 1	12 24 0 7 13 0 0 12 24	23.38 23.32 23.33 22.15 22.09 22.32 22.27 22.65 22.44 22.68	23.38 23.52 23.34 22.36 22.19 22.26 22.38 22.76 22.43 22.62	23.57 23.55 23.38 22.44 22.39 22.53 22.52 22.78 22.70 22.77	24.00	0 0-1 0-1
5 5 5 5 5 5 5 5 5	QPSK QPSK QPSK QPSK QPSK QPSK QPSK 16QAM 16QAM 16QAM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 24 0 7 13 0 0 12 24	23.38 23.32 23.33 22.15 22.09 22.32 22.27 22.65 22.44 22.68 21.26	23.38 23.52 23.34 22.36 22.19 22.26 22.38 22.76 22.43 22.62 21.32	23.57 23.55 23.38 22.44 22.39 22.53 22.52 22.78 22.70 22.77 21.38	24.00	0

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	Char	nnel		19965	20175	20385	Tune-up	MPR
	Frequenc	cy (MHz)		1711.5	1732.5	1753.5	limit (dBm)	(dB)
3	QPSK	1	0	23.48	23.50	23.57		
3	QPSK	1	8	23.45	23.41	23.48	24.00	0
3	QPSK	1	14	23.50	23.39	23.59		
3	QPSK	8	0	22.59	22.28	22.47		
3	QPSK	8	4	22.40	22.24	22.47	00.00	0.4
3	QPSK	8	7	22.44	22.20	22.45	23.00	0-1
3	QPSK	15	0	22.40	22.23	22.46		
3	16QAM	1	0	22.96	22.80	22.91		
3	16QAM	1	8	22.94	22.30	22.97	23.00	0-1
3	16QAM	1	14	22.92	22.69	22.88		
3	16QAM	8	0	21.64	21.58	21.43		
3	16QAM	8	4	21.47	21.42	21.56	22.00	0-2
3	16QAM	8	7	21.50	21.31	21.62	22.00	0-2
3	16QAM	15	0	21.44	21.24	21.52		
	Char	nnel		19957	20175	20393	Tune-up	MPR
	Frequenc	y (MHz)		1710.7	1732.5	1754.3	limit (dBm)	(dB)
1.4	QPSK	1	0	23.18	23.27	23.49		
1.4	QPSK	1	3	23.36	23.36	23.55		
1.4	QPSK	1	5	23.23	23.22	23.48	24.00	0
1.4	QPSK	3	0	23.36	23.42	23.50	24.00	U
1.4	QPSK	3	1	23.39	23.51	23.60		
1.4	QPSK	3	3	23.45	23.41	23.54		
1.4	QPSK	6	0	22.48	22.39	22.51	23.00	0-1
1.4	16QAM	1	0	22.46	22.50	22.81		
1.4	16QAM	1	3	22.63	22.59	22.90		
1.4	16QAM	1	5	22.73	22.18	22.78	23.00	0-1
1.4	16QAM	3	0	22.54	22.27	22.73	23.00	U- I
1.4	16QAM	3	1	22.58	22.31	22.75		
1.4	16QAM	3	3	22.87	22.62	22.76		
1.4	16QAM	6	0	21.13	21.32	21.52	22.00	0-2

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<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freg.	Power High Ch. / Freq.	Tune-up limit	MPR
	Char	nnel		18700	18900	19100	(dBm)	(dB)
	Frequenc	y (MHz)		1860	1880	1900		
20	QPSK	1	0	21.51	21.67	<mark>21.72</mark>		
20	QPSK	1	49	21.22	21.53	21.52	22.00	0
20	QPSK	1	99	21.47	21.33	21.46		
20	QPSK	50	0	20.52	20.50	20.57		
20	QPSK	50	24	20.53	20.51	20.59	04.00	0.4
20	QPSK	50	50	20.45	20.48	20.56	21.00	0-1
20	QPSK	100	0	20.52	20.56	20.58		
20	16QAM	1	0	20.92	20.95	20.97		
20	16QAM	1	49	20.69	20.79	20.84	21.00	0-1
20	16QAM	1	99	20.84	20.64	20.95		
20	16QAM	50	0	19.52	19.53	19.48		
20	16QAM	50	24	19.42	19.64	19.61	20.00	0.0
20	16QAM	50	50	19.56	19.55	19.68	20.00	0-2
20	16QAM	100	0	19.60	19.57	19.77		
	Char	nnel		18675	18900	19125	Tune-up	MPR
	Frequenc	y (MHz)		1857.5	1880	1902.5	limit (dBm)	(dB)
15	QPSK	1	0	21.47	21.50	21.61		
15	QPSK	1	37	21.57	21.38	21.43	22.00	0
15	QPSK	1	74	21.39	21.35	21.57		
15	QPSK	36	0	20.45	20.60	20.59		
15	QPSK	36	20	20.54	20.58	20.47	24.00	0.4
15	QPSK	36	39	20.58	20.49	20.68	21.00	0-1
15	QPSK	75	0	20.53	20.55	20.68		
15	16QAM	1	0	20.81	20.98	20.95		
15	16QAM	1	37	20.39	20.38	20.80	21.00	0-1
15	16QAM	1	74	20.70	20.83	20.95		
15	16QAM	36	0	19.54	19.71	19.59		
15	16QAM	36	20	19.63	19.71	19.57	20.00	0.0
15	16QAM	36	39	19.67	19.68	19.80	20.00	0-2
15	16QAM	75	0	19.52	19.57	19.71		

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	Chai	nnel		18650	18900	19150	Tune-up	MPR
	Frequenc	cy (MHz)		1855	1880	1905	limit (dBm)	(dB)
10	QPSK	1	0	21.48	21.56	21.48		
10	QPSK	1	25	21.24	21.39	21.51	22.00	0
10	QPSK	1	49	21.49	21.57	21.39		
10	QPSK	25	0	20.52	20.53	20.62		
10	QPSK	25	12	20.34	20.53	20.57	24.00	0.1
10	QPSK	25	25	20.52	20.48	20.61	21.00	0-1
10	QPSK	50	0	20.51	20.61	20.57		
10	16QAM	1	0	20.70	20.70	20.78		
10	16QAM	1	25	20.56	20.54	20.76	21.00	0-1
10	16QAM	1	49	20.46	20.71	20.87		
10	16QAM	25	0	19.54	19.48	19.56		0-2
10	16QAM	25	12	19.47	19.75	19.51	20.00	
10	16QAM	25	25	19.63	19.43	19.66	20.00	0-2
10	16QAM	50	0	19.53	19.64	19.51		
	Chai	nnel		18625	18900	19175	Tune-up	MPR
	Frequenc	cy (MHz)		1852.5	1880	1907.5	limit (dBm)	(dB)
5	QPSK	1	0	21.34	21.18	21.49		
5	QPSK	1	12	21.39	21.56	21.57	22.00	0
5	QPSK	1	24	21.41	21.19	21.53		
5	QPSK	12	0	20.42	20.51	20.61		
5	QPSK	12	7	20.38	20.51	20.51	21.00	0-1
5	QPSK	12	13	20.40	20.53	20.59	21.00	0-1
5	QPSK	25	0	20.52	20.49	20.67		
5	16QAM	1	0	20.90	20.77	20.88		
5	16QAM	1	12	20.71	20.76	20.97	21.00	0-1
5	16QAM	1	24	20.98	20.76	20.91		
5	16QAM	12	0	19.56	19.56	19.68		
5	16QAM	12	7	19.51	19.55	19.57	20.00	0-2
5	16QAM	12	13	19.53	19.58	19.65	20.00	0-2
5	16QAM	25	0	19.42	19.52	19.98		

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	Char	nnel		18615	18900	19185	Tune-up	MPR
	Frequenc	y (MHz)		1851.5	1880	1908.5	limit (dBm)	(dB)
3	QPSK	1	0	21.48	21.54	21.66		
3	QPSK	1	8	21.46	21.53	21.54	22.00	0
3	QPSK	1	14	21.54	21.59	21.51		
3	QPSK	8	0	20.49	20.59	20.71		
3	QPSK	8	4	20.49	20.59	20.68	21.00	0-1
3	QPSK	8	7	20.49	20.58	20.64	21.00	0-1
3	QPSK	15	0	20.48	20.59	20.58		
3	16QAM	1	0	20.76	20.84	20.84		
3	16QAM	1	8	20.68	20.77	20.89	21.00	0-1
3	16QAM	1	14	20.86	20.84	20.72		
3	16QAM	8	0	19.55	19.56	19.53		
3	16QAM	8	4	19.54	19.77	19.50	20.00	0-2
3	16QAM	8	7	19.54	19.67	19.46	20.00	0-2
3	16QAM	15	0	19.53	19.75	19.40		
	Char	nnel		18607	18900	19193	Tune-up	MPR
	Frequenc	y (MHz)		1850.7	1880	1909.3	limit (dBm)	(dB)
1.4	QPSK	1	0	21.24	21.28	21.25		
1.4	QPSK	1	3	21.37	21.42	21.35		
1.4	QPSK	1	5	21.22	21.26	21.26	22.00	0
1.4	QPSK	3	0	21.33	21.39	21.37	22.00	U
1.4	QPSK	3	1	21.27	21.52	21.40		
1.4	QPSK	3	3	21.27	21.42	21.38		
1.4	QPSK	6	0	20.44	20.62	20.61	21.00	0-1
1.4	16QAM	1	0	20.48	20.51	20.67		
1.4	16QAM	1	3	20.52	20.82	20.45		
1.4	16QAM	1	5	20.49	20.67	20.52	21.00	0-1
1.4	16QAM	3	0	20.59	20.75	20.57	21.00	U- I
1.4	16QAM	3	1	20.65	20.80	20.74		
1.4	16QAM	3	3	20.64	20.67	20.59		
1.4	16QAM	6	0	19.46	19.54	19.74	20.00	0-2

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<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	N	leasured Pow	er	Tune-up	
	Ob-	1		00050	04400	04050	limit	MPR (dB)
	Cha			20850	21100	21350	(dBm)	ζ- /
	Frequen	cy (MHz)		2510	2535	2560		
20	QPSK	1	0	21.34	21.52	21.54		
20	QPSK	1	49	21.49	<mark>21.76</mark>	21.55	22.00	0
20	QPSK	1	99	21.40	21.67	21.46		
20	QPSK	50	0	20.25	20.40	20.47	-	
20	QPSK	50	24	20.38	20.42	20.49	21.00	0-1
20	QPSK	50	50	20.42	20.60	20.57		
20	QPSK	100	0	20.30	20.58	20.56		
20	16QAM	1	0	20.51	20.76	20.91		
20	16QAM	1	49	20.54	20.57	20.42	21.00	0-1
20	16QAM	1	99	20.72	20.87	20.77		
20	16QAM	50	0	19.47	19.47	19.64		
20	16QAM	50	24	19.45	19.61	19.34	20.00	0-2
20	16QAM	50	50	19.50	19.75	19.50		0-2
20	16QAM	100	0	19.36	19.62	19.53		
	Cha	nnel		20825	21100	21375	Tune-up	MPR
	Frequen	cy (MHz)		2507.5	2535	2562.5	limit (dBm)	(dB)
15	QPSK	1	0	21.03	21.33	21.44		
15	QPSK	1	37	21.02	21.43	21.10	22.00	0
15	QPSK	1	74	21.22	21.39	21.23		
15	QPSK	36	0	19.89	20.30	20.26		
15	QPSK	36	20	19.95	20.18	20.16	1	0.4
15	QPSK	36	39	20.14	20.31	20.31	21.00	0-1
15	QPSK	75	0	20.00	20.30	20.23		
15	16QAM	1	0	20.39	20.55	20.68		
15	16QAM	1	37	19.68	20.35	20.28	21.00	0-1
15	16QAM	1	74	20.33	20.81	20.41		
15	16QAM	36	0	18.78	19.25	19.27		
15	16QAM	36	20	18.98	19.34	19.21		
15	16QAM	36	39	19.11	19.52	19.36	20.00	0-2
15	16QAM	75	0	19.04	19.34	19.21		

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	Cha	nnel		20800	21100	21400	Tune-up	MPR
	Frequen	cy (MHz)		2505	2535	2565	limit (dBm)	(dB)
10	QPSK	1	0	21.00	21.33	21.38		
10	QPSK	1	25	20.99	21.36	21.42	22.00	0
10	QPSK	1	49	20.97	21.38	21.32		
10	QPSK	25	0	19.79	20.29	20.25		
10	QPSK	25	12	19.76	20.19	20.32	21.00	0-1
10	QPSK	25	25	19.77	20.23	20.28	21.00	0-1
10	QPSK	50	0	19.81	20.21	20.28		
10	16QAM	1	0	20.09	20.44	20.50		
10	16QAM	1	25	20.07	20.38	20.27	21.00	0-1
10	16QAM	1	49	20.06	20.49	20.49		
10	16QAM	25	0	18.92	19.45	19.24		
10	16QAM	25	12	18.82	19.23	19.29	20.00	0-2
10	16QAM	25	25	19.03	19.27	19.12	20.00	0-2
10	16QAM	50	0	18.91	19.27	19.23		
	Cha	nnel		20775	21100	21425	Tune-up	MPR
	Frequen	cy (MHz)		2502.5	2535	2567.5	limit (dBm)	(dB)
5	QPSK	1	0	20.95	21.24	21.26		
5	QPSK	1	12	20.92	21.39	21.40	22.00	0
5	QPSK	1	24	20.76	21.17	21.12		
5	QPSK	12	0	19.71	20.14	20.21		
5	QPSK	12	7	19.69	20.08	20.23	21.00	0-1
5	QPSK	12	13	19.74	20.16	20.25	21.00	0-1
5	QPSK	25	0	19.80	20.20	20.23		
5	16QAM	1	0	20.00	20.32	20.92		
5	16QAM	1	12	20.03	20.36	20.57	21.00	0-1
5	16QAM	1	24	20.06	20.44	20.44		
5	16QAM	12	0	18.76	19.31	19.26		
5	16QAM	12	7	18.72	19.15	19.09	20.00	0-2
5	16QAM	12	13	18.82	19.21	19.20	20.00	0-2
5	16QAM	25	0	18.84	19.25	19.27		

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<WLAN Conducted Power>

General Note:

Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.

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- For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the 2. DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands. When the same maximum power is 3. specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is 4. measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures 18 The initial test position procedure is described in the following:
 - When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

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<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		12.18	13.00	
	802.11b	CH 6	2437	1Mbps	13.08	13.50	97.35
		CH 11	2462		<mark>14.34</mark>	15.00	
		CH 1	2412		10.27	10.50	
2.4GHz WLAN	802.11g	CH 6	2437	6Mbps	11.46	12.00	87.51
		CH 11	2462		12.32	12.50	
		CH 1	2412		9.63	10.00	
	802.11n-HT20	CH 6	2437	MCS0	10.46	10.50	86.49
		CH 11	2462		11.20	11.50	
		CH 3	2422		10.21	10.50	
	802.11n-HT40	CH 6	2437	MCS0	12.64	13.00	76.19
		CH 9	2452		11.12	11.50	

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<2.4GHz Bluetooth>

General Note:

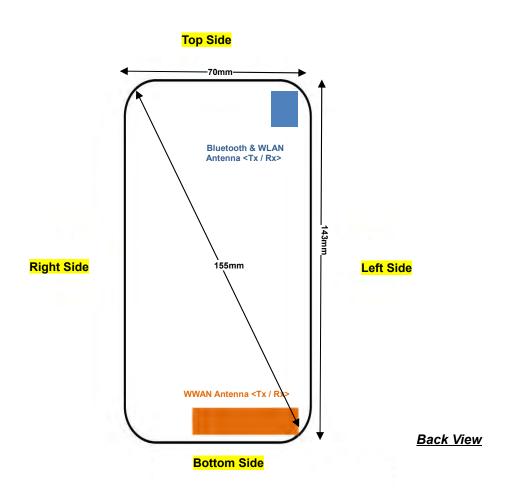
For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.

Mode	Channel	Frequency	· ·	Average power (dBm)	Tune-Up
Mode	Chamilei	(MHz)	1Mbps	2Mbps	3Mbps	Limit
	CH 00	2402	6.92	6.45	6.47	7.50
v3.0 with EDR	CH 39	2441	<mark>8.57</mark>	7.18	7.19	9.00
	CH 78	2480	7.50	6.11	6.08	8.00

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Mode	Channel	Frequency (MHz)	Average power (dBm) GFSK	Tune-Up Limit
	CH 00	2402	-1.41	
v4.0 with LE	CH 19	2440	-0.80	-0.50
	CH 39	2480	-1.77	

13. Antenna Location



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Distance of the Antenna to the EUT surface/edge													
Antennas	Antennas Back Front Top Side Bottom Side Right Side Left Side												
WWAN Main	≤ 25mm	≤ 25mm	126mm	≤ 25mm	28mm	≤ 25mm							
BT&WLAN	BT&WLAN ≤ 25mm ≤ 25mm 119mm 55mm ≤ 25mm												

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

General Note:

Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge

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14. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - \cdot ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 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.

GSM Note:

- 1. Per KDB 941225 D01v03r01, considering the possibility of e.g. 3rd party VoIP operation for Head and body-worn SAR test reduction for GSM and GPRS and EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.
- Per KDB 941225 D01v03r01, for Hotspot SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance, for modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested, therefore, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900.

UMTS Note:

- 1. Per KDB 941225 D01v03r01, SAR for Head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA.

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LTE Note:

Per KDB 941225 D05v02r04, 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 for RB offsets at the upper edge, middle and lower edge of each required test channel.

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- Per KDB 941225 D05v02r04, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- Per KDB 941225 D05v02r04, 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 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- Per KDB 941225 D05v02r04, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r04, 16QAM SAR testing is not required.
- Per KDB 941225 D05v02r04, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r04, smaller bandwidth SAR testing is not required.
- For LTE B12 / B4 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r04, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- LTE band 17 SAR test was covered by Band 12; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

- 1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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14.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Right Cheek	251	848.8	28.72	29.50	1.197	0.03	0.533	0.638
	GSM850	GPRS(4 Tx slots)	Right Tilted	251	848.8	28.72	29.50	1.197	-0.04	0.327	0.391
01	GSM850	GPRS(4 Tx slots)	Left Cheek	251	848.8	28.72	29.50	1.197	-0.04	0.543	<mark>0.650</mark>
	GSM850	GPRS(4 Tx slots)	Left Tilted	251	848.8	28.72	29.50	1.197	0.03	0.285	0.341
	GSM850	GPRS(4 Tx slots)	Left Cheek	128	824.2	28.60	29.50	1.230	-0.09	0.302	0.372
	GSM850	GPRS(4 Tx slots)	Left Cheek	189	836.4	28.65	29.50	1.216	-0.08	0.396	0.482
02	GSM1900	GPRS(4 Tx slots)	Right Cheek	810	1909.8	26.36	27.00	1.159	-0.04	0.360	<mark>0.417</mark>
	GSM1900	GPRS(4 Tx slots)	Right Tilted	810	1909.8	26.36	27.00	1.159	-0.02	0.106	0.123
	GSM1900	GPRS(4 Tx slots)	Left Cheek	810	1909.8	26.36	27.00	1.159	0.02	0.281	0.326
	GSM1900	GPRS(4 Tx slots)	Left Tilted	810	1909.8	26.36	27.00	1.159	0.09	0.110	0.127
	GSM1900	GPRS(4 Tx slots)	Right Cheek	512	1850.2	26.15	27.00	1.216	0.13	0.284	0.345
	GSM1900	GPRS(4 Tx slots)	Right Cheek	661	1880	26.28	27.00	1.180	0.08	0.282	0.333

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4182	836.4	23.05	23.50	1.109	0.05	0.337	0.374
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	4182	836.4	23.05	23.50	1.109	-0.02	0.228	0.253
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4182	836.4	23.05	23.50	1.109	-0.06	0.330	0.366
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	4182	836.4	23.05	23.50	1.109	-0.08	0.195	0.216
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4132	826.4	22.93	23.50	1.140	0.06	0.267	0.304
03	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4233	846.6	22.96	23.50	1.132	0.02	0.351	<mark>0.397</mark>
04	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1513	1752.6	23.86	24.50	1.159	-0.06	0.48	<mark>0.556</mark>
	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	1513	1752.6	23.86	24.50	1.159	-0.12	0.179	0.207
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1513	1752.6	23.86	24.50	1.159	0.05	0.344	0.399
	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	1513	1752.6	23.86	24.50	1.159	-0.09	0.202	0.234
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1312	1712.4	23.58	24.50	1.159	0.02	0.366	0.424
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1413	1732.6	23.55	24.50	1.236	0.03	0.344	0.425
05	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9538	1907.6	22.69	23.00	1.074	0.06	0.339	<mark>0.364</mark>
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	9538	1907.6	22.69	23.00	1.074	-0.05	0.103	0.111
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9538	1907.6	22.69	23.00	1.074	-0.01	0.265	0.285
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	9538	1907.6	22.69	23.00	1.074	0.07	0.112	0.120
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9262	1852.4	22.48	23.00	1.074	-0.19	0.271	0.291
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9400	1880	22.51	23.00	1.127	0.04	0.275	0.310

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<LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offset	Modulation	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
06	LTE Band 12	10M	1	49	QPSK	Right Cheek	23095	707.5	23.25	24.00	1.189	0.08	0.049	0.058
	LTE Band 12	10M	1	49	QPSK	Right Tilted	23095	707.5	23.25	24.00	1.189	-0.02	0.027	0.032
	LTE Band 12	10M	1	49	QPSK	Left Cheek	23095	707.5	23.25	24.00	1.189	-0.01	0.032	0.038
	LTE Band 12	10M	1	49	QPSK	Left Tilted	23095	707.5	23.25	24.00	1.189	-0.03	0.021	0.025
	LTE Band 12	10M	25	25	QPSK	Right Cheek	23095	707.5	22.15	23.00	1.216	0.02	0.039	0.047
	LTE Band 12	10M	25	25	QPSK	Right Tilted	23095	707.5	22.15	23.00	1.216	0.01	0.021	0.026
	LTE Band 12	10M	25	25	QPSK	Left Cheek	23095	707.5	22.15	23.00	1.216	-0.01	0.025	0.030
	LTE Band 12	10M	25	25	QPSK	Left Tilted	23095	707.5	22.15	23.00	1.216	-0.01	0.015	0.018
	LTE Band 4	20M	1	0	QPSK	Right Cheek	20175	1732.5	23.56	24.00	1.107	-0.02	0.238	0.263
	LTE Band 4	20M	1	0	QPSK	Right Tilted	20175	1732.5	23.56	24.00	1.107	-0.02	0.099	0.110
	LTE Band 4	20M	1	0	QPSK	Left Cheek	20175	1732.5	23.56	24.00	1.107	-0.12	0.216	0.239
	LTE Band 4	20M	1	0	QPSK	Left Tilted	20175	1732.5	23.56	24.00	1.107	-0.01	0.102	0.113
07	LTE Band 4	20M	50	0	QPSK	Right Cheek	20175	1732.5	22.52	23.00	1.117	0.02	0.239	<mark>0.267</mark>
	LTE Band 4	20M	50	0	QPSK	Right Tilted	20175	1732.5	22.52	23.00	1.117	0.03	0.099	0.111
	LTE Band 4	20M	50	0	QPSK	Left Cheek	20175	1732.5	22.52	23.00	1.117	-0.02	0.218	0.243
	LTE Band 4	20M	50	0	QPSK	Left Tilted	20175	1732.5	22.52	23.00	1.117	-0.09	0.100	0.112
08	LTE Band 2	20M	1	0	QPSK	Right Cheek	19100	1900	21.72	22.00	1.067	0.03	0.312	0.333
	LTE Band 2	20M	1	0	QPSK	Right Tilted	19100	1900	21.72	22.00	1.067	0.04	0.102	0.109
	LTE Band 2	20M	1	0	QPSK	Left Cheek	19100	1900	21.72	22.00	1.067	-0.09	0.260	0.277
	LTE Band 2	20M	1	0	QPSK	Left Tilted	19100	1900	21.72	22.00	1.067	-0.03	0.097	0.103
	LTE Band 2	20M	1	0	QPSK	Right Cheek	18700	1860	21.51	22.00	1.119	-0.01	0.233	0.261
	LTE Band 2	20M	1	0	QPSK	Right Cheek	18900	1880	21.67	22.00	1.079	-0.09	0.242	0.261
	LTE Band 2	20M	50	24	QPSK	Right Cheek	19100	1900	20.59	21.00	1.099	0.07	0.189	0.208
	LTE Band 2	20M	50	24	QPSK	Right Tilted	19100	1900	20.59	21.00	1.099	0.07	0.068	0.075
	LTE Band 2	20M	50	24	QPSK	Left Cheek	19100	1900	20.59	21.00	1.099	-0.05	0.195	0.214
	LTE Band 2	20M	50	24	QPSK	Left Tilted	19100	1900	20.59	21.00	1.099	0.06	0.065	0.071
	LTE Band 7	20M	1	49	QPSK	Right Cheek	21100	2535	21.76	22.00	1.117	0.06	0.335	0.374
	LTE Band 7	20M	1	49	QPSK	Right Tilted	21100	2535	21.76	22.00	1.117	-0.05	0.324	0.362
	LTE Band 7	20M	1	49	QPSK	Left Cheek	21100	2535	21.76	22.00	1.117	-0.03	0.567	0.633
	LTE Band 7	20M	1	49	QPSK	Left Tilted	21100	2535	21.76	22.00	1.117	-0.02	0.222	0.248
09	LTE Band 7	20M	1	49	QPSK	Left Cheek	20850	2510	21.49	22.00	1.146	-0.07	0.604	0.692
	LTE Band 7	20M	1	49	QPSK	Left Cheek	21350	2560	21.55	22.00	1.140	-0.08	0.589	0.672
	LTE Band 7	20M	50	50	QPSK	Right Cheek	21100	2535	20.60	21.00	1.146	0.05	0.264	0.302
	LTE Band 7	20M	50	50	QPSK	Right Tilted	21100	2535	20.60	21.00	1.146	0.06	0.263	0.301
	LTE Band 7	20M	50	50	QPSK	Left Cheek	21100	2535	20.60	21.00	1.146	0.02	0.463	0.530
	LTE Band 7	20M	50	50	QPSK	Left Tilted	21100	2535	20.60	21.00	1.146	0.05	0.180	0.206

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
10	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	11	2462	14.34	15.00	1.165	97.35	1.027	0.01	0.083	0.099
	WLAN 2.4GHz	802.11b 1Mbps	Right Tilted	11	2462	14.34	15.00	1.165	97.35	1.027	0.01	0.048	0.057
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	11	2462	14.34	15.00	1.165	97.35	1.027	0.01	0.023	0.028
	WLAN 2.4GHz	802.11b 1Mbps	Left Tilted	11	2462	14.34	15.00	1.165	97.35	1.027	-0.01	0.017	0.020
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	1	2412	12.18	13.00	1.209	97.35	1.027	0.01	0.034	0.042
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	6	2437	13.08	13.50	1.102	97.35	1.027	-0.01	0.051	0.058

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14.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Front	10	251	848.8	28.72	29.50	1.197	-0.03	0.735	0.880
11	GSM850	GPRS(4 Tx slots)	Back	10	251	848.8	28.72	29.50	1.197	-0.06	0.791	<mark>0.947</mark>
	GSM850	GPRS(4 Tx slots)	Left Side	10	251	848.8	28.72	29.50	1.197	-0.03	0.506	0.606
	GSM850	GPRS(4 Tx slots)	Bottom Side	10	251	848.8	28.72	29.50	1.197	-0.06	0.210	0.251
	GSM850	GPRS(4 Tx slots)	Front	10	128	824.2	28.60	29.50	1.230	-0.05	0.485	0.597
	GSM850	GPRS(4 Tx slots)	Front	10	189	836.4	28.65	29.50	1.216	-0.1	0.558	0.679
	GSM850	GPRS(4 Tx slots)	Back	10	128	824.2	28.60	29.50	1.230	-0.08	0.596	0.733
	GSM850	GPRS(4 Tx slots)	Back	10	189	836.4	28.65	29.50	1.216	-0.11	0.651	0.792
	GSM1900	GPRS(4 Tx slots)	Front	10	810	1909.8	26.36	27.00	1.159	0.04	0.888	1.029
	GSM1900	GPRS(4 Tx slots)	Back	10	810	1909.8	26.36	27.00	1.159	0.03	0.824	0.955
	GSM1900	GPRS(4 Tx slots)	Left Side	10	810	1909.8	26.36	27.00	1.159	-0.1	0.177	0.205
12	GSM1900	GPRS(4 Tx slots)	Bottom Side	10	810	1909.8	26.36	27.00	1.159	-0.03	0.898	1.041
	GSM1900	GPRS(4 Tx slots)	Front	10	512	1850.2	26.15	27.00	1.216	-0.04	0.708	0.861
	GSM1900	GPRS(4 Tx slots)	Front	10	661	1880	26.28	27.00	1.180	0.03	0.780	0.921
	GSM1900	GPRS(4 Tx slots)	Back	10	512	1850.2	26.15	27.00	1.216	0.09	0.651	0.792
	GSM1900	GPRS(4 Tx slots)	Back	10	661	1880	26.28	27.00	1.180	0.02	0.727	0.858
	GSM1900	GPRS(4 Tx slots)	Bottom Side	10	512	1850.2	26.15	27.00	1.216	0.06	0.779	0.947
	GSM1900	GPRS(4 Tx slots)	Bottom Side	10	661	1880	26.28	27.00	1.180	0.03	0.822	0.970

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	10	4182	836.4	23.05	23.50	1.109	-0.06	0.465	0.516
	WCDMA Band V	RMC12.2Kbps	Back	10	4182	836.4	23.05	23.50	1.109	0.09	0.559	0.620
	WCDMA Band V	RMC12.2Kbps	Left Side	10	4182	836.4	23.05	23.50	1.109	-0.17	0.415	0.460
	WCDMA Band V	RMC12.2Kbps	Bottom Side	10	4182	836.4	23.05	23.50	1.109	-0.07	0.145	0.161
	WCDMA Band V	RMC12.2Kbps	Back	10	4132	826.4	22.93	23.50	1.140	-0.09	0.523	0.596
13	WCDMA Band V	RMC12.2Kbps	Back	10	4233	846.6	22.96	23.50	1.132	-0.07	0.575	0.651
	WCDMA Band IV	RMC12.2Kbps	Front	10	1513	1752.6	23.86	24.50	1.159	0.03	0.720	0.834
	WCDMA Band IV	RMC12.2Kbps	Back	10	1513	1752.6	23.86	24.50	1.159	0.13	0.756	0.876
	WCDMA Band IV	RMC12.2Kbps	Left Side	10	1513	1752.6	23.86	24.50	1.159	0.02	0.166	0.192
	WCDMA Band IV	RMC12.2Kbps	Bottom Side	10	1513	1752.6	23.86	24.50	1.159	-0.04	0.859	0.995
	WCDMA Band IV	RMC12.2Kbps	Front	10	1312	1712.4	23.58	24.50	1.236	-0.02	0.687	0.849
	WCDMA Band IV	RMC12.2Kbps	Front	10	1413	1732.6	23.55	24.50	1.245	-0.09	0.702	0.874
	WCDMA Band IV	RMC12.2Kbps	Back	10	1312	1712.4	23.58	24.50	1.236	0.03	0.696	0.860
	WCDMA Band IV	RMC12.2Kbps	Back	10	1413	1732.6	23.55	24.50	1.245	0.07	0.678	0.844
14	WCDMA Band IV	RMC12.2Kbps	Bottom Side	10	1312	1712.4	23.58	24.50	1.236	0.03	0.847	1.047
	WCDMA Band IV	RMC12.2Kbps	Bottom Side	10	1413	1732.6	23.55	24.50	1.245	-0.04	0.831	1.034
15	WCDMA Band II	RMC12.2Kbps	Front	10	9538	1907.6	22.69	23.00	1.074	0.01	0.936	1.005
	WCDMA Band II	RMC12.2Kbps	Back	10	9538	1907.6	22.69	23.00	1.074	0.02	0.836	0.898
	WCDMA Band II	RMC12.2Kbps	Left Side	10	9538	1907.6	22.69	23.00	1.074	-0.16	0.184	0.198
	WCDMA Band II	RMC12.2Kbps	Bottom Side	10	9538	1907.6	22.69	23.00	1.074	-0.01	0.931	1.000
	WCDMA Band II	RMC12.2Kbps	Front	10	9262	1852.4	22.48	23.00	1.127	0.05	0.696	0.785
	WCDMA Band II	RMC12.2Kbps	Front	10	9400	1880	22.51	23.00	1.119	0.07	0.799	0.894
	WCDMA Band II	RMC12.2Kbps	Back	10	9262	1852.4	22.48	23.00	1.127	0.1	0.619	0.698
	WCDMA Band II	RMC12.2Kbps	Back	10	9400	1880	22.51	23.00	1.119	0.05	0.723	0.809
	WCDMA Band II	RMC12.2Kbps	Bottom Side	10	9262	1852.4	22.48	23.00	1.127	-0.05	0.754	0.850
	WCDMA Band II	RMC12.2Kbps	Bottom Side	10	9400	1880	22.51	23.00	1.119	-0.12	0.839	0.939

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<LTE SAR>

		<u> </u>													
Plot No.	Band	BW (MHz)	RB Size	RB offset	Modulation	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12	10M	1	49	QPSK	Front	10	23095	707.5	23.25	24.00	1.189	-0.15	0.040	0.048
16	LTE Band 12	10M	1	49	QPSK	Back	10	23095	707.5	23.25	24.00	1.189	-0.01	0.106	0.126
	LTE Band 12	10M	1	49	QPSK	Left Side	10	23095	707.5	23.25	24.00	1.189	-0.02	0.039	0.046
	LTE Band 12	10M	1	49	QPSK	Bottom Side	10	23095	707.5	23.25	24.00	1.189	-0.02	0.015	0.018
	LTE Band 12	10M	25	25	QPSK	Front	10	23095	707.5	22.15	23.00	1.216	-0.05	0.040	0.049
	LTE Band 12	10M	25	25	QPSK	Back	10	23095	707.5	22.15	23.00	1.216	0.01	0.079	0.096
	LTE Band 12	10M	25	25	QPSK	Left Side	10	23095	707.5	22.15	23.00	1.216	-0.16	0.030	0.036
	LTE Band 12	10M	25	25	QPSK	Bottom Side	10	23095	707.5	22.15	23.00	1.216	-0.01	0.012	0.015
	LTE Band 4	20M	1	0	QPSK	Front	10	20175	1732.5	23.56	24.00	1.107	0.09	0.696	0.770
	LTE Band 4	20M	1	0	QPSK	Back	10	20175	1732.5	23.56	24.00	1.107	0.06	0.772	0.854
	LTE Band 4	20M	1	0	QPSK	Left Side	10	20175	1732.5	23.56	24.00	1.107	0.03	0.188	0.208
17	LTE Band 4	20M	1	0	QPSK	Bottom Side	10	20175	1732.5	23.56	24.00	1.107	0.02	0.822	0.910
	LTE Band 4	20M	50	0	QPSK	Front	10	20175	1732.5	22.52	23.00	1.117	-0.03	0.563	0.629
	LTE Band 4	20M	50	0	QPSK	Back	10	20175	1732.5	22.52	23.00	1.117	0.01	0.620	0.692
	LTE Band 4	20M	50	0	QPSK	Left Side	10	20175	1732.5	22.52	23.00	1.117	0.11	0.146	0.163
	LTE Band 4	20M	50	0	QPSK	Bottom Side	10	20175	1732.5	22.52	23.00	1.117	-0.14	0.637	0.711
	LTE Band 4	20M	100	0	QPSK	Back	10	20175	1732.5	22.41	23.00	1.146	0.16	0.617	0.707
	LTE Band 4	20M	100	0	QPSK	Bottom Side	10	20175	1732.5	22.41	23.00	1.146	0.1	0.614	0.703
18	LTE Band 2	20M	1	0	QPSK	Front	10	19100	1900	21.72	22.00	1.067	-0.14	0.783	0.835
	LTE Band 2	20M	1	0	QPSK	Back	10	19100	1900	21.72	22.00	1.067	0.04	0.700	0.747
	LTE Band 2	20M	1	0	QPSK	Left Side	10	19100	1900	21.72	22.00	1.067	0.06	0.167	0.178
	LTE Band 2	20M	1	0	QPSK	Bottom Side	10	19100	1900	21.72	22.00	1.067	-0.03	0.782	0.834
	LTE Band 2	20M	1	0	QPSK	Front	10	18700	1860	21.51	22.00	1.119	-0.14	0.603	0.675
	LTE Band 2	20M	1	0	QPSK	Front	10	18900	1880	21.67	22.00	1.079	-0.09	0.696	0.751
	LTE Band 2	20M	1	0	QPSK	Bottom Side	10	18700	1860	21.51	22.00	1.119	-0.16	0.673	0.753
	LTE Band 2	20M	1	0	QPSK	Bottom Side	10	18900	1880	21.67	22.00	1.079	-0.01	0.740	0.798
	LTE Band 2	20M	50	24	QPSK	Front	10	19100	1900	20.59	21.00	1.099	-0.13	0.626	0.688
	LTE Band 2	20M	50	24	QPSK	Back	10	19100	1900	20.59	21.00	1.099	0.01	0.546	0.600
	LTE Band 2	20M	50	24	QPSK	Left Side	10	19100	1900	20.59	21.00	1.099	0.03	0.124	0.136
	LTE Band 2	20M	50	24	QPSK	Bottom Side	10	19100	1900	20.59	21.00	1.099	-0.01	0.617	0.678
	LTE Band 2	20M	100	0	QPSK	Front	10	19100	1900	20.58	21.00	1.102	-0.03	0.601	0.662
	LTE Band 2	20M	100	0	QPSK	Bottom Side	10	19100	1900	20.58	21.00	1.102	-0.04	0.627	0.691
	LTE Band 7	20M	1	49	QPSK	Front	10	21100	2535	21.76	22.00	1.057	-0.03	0.349	0.369
	LTE Band 7	20M	1	49	QPSK	Back	10	21100	2535	21.76	22.00	1.057	0.01	0.852	0.900
	LTE Band 7	20M	1	49	QPSK	Left Side	10	21100	2535	21.76	22.00	1.057	0.08	0.432	0.457
	LTE Band 7	20M	1	49	QPSK	Bottom Side	10	21100	2535	21.76	22.00	1.057	-0.05	0.667	0.705
19	LTE Band 7	20M	1	49	QPSK	Back	10	20850	2510	21.49	22.00	1.125	0.01	1.020	1.147
	LTE Band 7	20M	1	49	QPSK	Back	10	21350	2560	21.55	22.00	1.109	-0.05	0.711	0.789
	LTE Band 7	20M	50	50	QPSK	Front	10	21100	2535	20.60	21.00	1.096	-0.07	0.262	0.287
	LTE Band 7	20M	50	50	QPSK	Back	10	21100	2535	20.60	21.00	1.096	0.06	0.636	0.697
	LTE Band 7	20M	50	50	QPSK	Left Side	10	21100	2535	20.60	21.00	1.096	0.03	0.350	0.384
	LTE Band 7	20M	50	50	QPSK	Bottom Side	10	21100	2535	20.60	21.00	1.096	-0.04	0.463	0.508
	LTE Band 7	20M	100	0	QPSK	Back	10	21100	2535	20.58	21.00	1.102	0.06	0.649	0.715

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	10	11	2462	14.34	15.00	1.165	97.35	1.027	-0.02	0.022	0.026
20	WLAN 2.4GHz	802.11b 1Mbps	Back	10	11	2462	14.34	15.00	1.165	97.35	1.027	-0.09	0.047	0.056
	WLAN 2.4GHz	802.11b 1Mbps	Left Side	10	11	2462	14.34	15.00	1.165	97.35	1.027	-0.01	0.021	0.025
	WLAN 2.4GHz	802.11b 1Mbps	Top Side	10	11	2462	14.34	15.00	1.165	97.35	1.027	-0.17	0.011	0.013
	WLAN 2.4GHz	802.11b 1Mbps	Back	10	1	2412	12.18	13.00	1.209	97.35	1.027	-0.03	0.028	0.035
	WLAN 2.4GHz	802.11b 1Mbps	Back	10	6	2437	13.08	13.50	1.102	97.35	1.027	-0.02	0.036	0.041

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14.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Front	10	251	848.8	28.72	29.50	1.197	-0.03	0.735	0.880
11	GSM850	GPRS(4 Tx slots)	Back	10	251	848.8	28.72	29.50	1.197	-0.06	0.791	0.947
	GSM850	GPRS(4 Tx slots)	Front	10	128	824.2	28.60	29.50	1.230	-0.05	0.485	0.597
	GSM850	GPRS(4 Tx slots)	Front	10	189	836.4	28.65	29.50	1.216	-0.1	0.558	0.679
	GSM850	GPRS(4 Tx slots)	Back	10	128	824.2	28.60	29.50	1.230	-0.08	0.596	0.733
	GSM850	GPRS(4 Tx slots)	Back	10	189	836.4	28.65	29.50	1.216	-0.11	0.651	0.792
21	GSM1900	GPRS(4 Tx slots)	Front	10	810	1909.8	26.36	27.00	1.159	0.04	0.888	1.029
	GSM1900	GPRS(4 Tx slots)	Back	10	810	1909.8	26.36	27.00	1.159	0.03	0.824	0.955
	GSM1900	GPRS(4 Tx slots)	Front	10	512	1850.2	26.15	27.00	1.216	-0.04	0.708	0.861
	GSM1900	GPRS(4 Tx slots)	Front	10	661	1880	26.28	27.00	1.180	0.03	0.780	0.921
	GSM1900	GPRS(4 Tx slots)	Back	10	512	1850.2	26.15	27.00	1.216	0.09	0.651	0.792
	GSM1900	GPRS(4 Tx slots)	Back	10	661	1880	26.28	27.00	1.180	0.02	0.727	0.858

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	10	4182	836.4	23.05	23.50	1.109	-0.06	0.465	0.516
	WCDMA Band V	RMC12.2Kbps	Back	10	4182	836.4	23.05	23.50	1.109	0.09	0.559	0.620
	WCDMA Band V	RMC12.2Kbps	Back	10	4132	826.4	22.93	23.50	1.140	-0.09	0.523	0.596
13	WCDMA Band V	RMC12.2Kbps	Back	10	4233	846.6	22.96	23.50	1.132	-0.07	0.575	0.651
	WCDMA Band IV	RMC12.2Kbps	Front	10	1513	1752.6	23.86	24.50	1.159	0.03	0.720	0.834
22	WCDMA Band IV	RMC12.2Kbps	Back	10	1513	1752.6	23.86	24.50	1.159	0.13	0.756	0.876
	WCDMA Band IV	RMC12.2Kbps	Front	10	1312	1712.4	23.58	24.50	1.236	-0.02	0.687	0.849
	WCDMA Band IV	RMC12.2Kbps	Front	10	1413	1732.6	23.55	24.50	1.245	-0.09	0.702	0.874
	WCDMA Band IV	RMC12.2Kbps	Back	10	1312	1712.4	23.58	24.50	1.236	0.03	0.696	0.860
	WCDMA Band IV	RMC12.2Kbps	Back	10	1413	1732.6	23.55	24.50	1.245	0.07	0.678	0.844
15	WCDMA Band II	RMC12.2Kbps	Front	10	9538	1907.6	22.69	23.00	1.074	0.01	0.936	1.005
	WCDMA Band II	RMC12.2Kbps	Back	10	9538	1907.6	22.69	23.00	1.074	0.02	0.836	0.898
	WCDMA Band II	RMC12.2Kbps	Front	10	9262	1852.4	22.48	23.00	1.127	0.05	0.696	0.785
	WCDMA Band II	RMC12.2Kbps	Front	10	9400	1880	22.51	23.00	1.119	0.07	0.799	0.894
	WCDMA Band II	RMC12.2Kbps	Back	10	9262	1852.4	22.48	23.00	1.127	0.1	0.619	0.698
	WCDMA Band II	RMC12.2Kbps	Back	10	9400	1880	22.51	23.00	1.119	0.05	0.723	0.809



<LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offset	Modulation	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12	10M	1	49	QPSK	Front	10	23095	707.5	23.25	24.00	1.189	-0.15	0.040	0.048
16	LTE Band 12	10M	1	49	QPSK	Back	10	23095	707.5	23.25	24.00	1.189	-0.01	0.106	<mark>0.126</mark>
	LTE Band 12	10M	25	25	QPSK	Front	10	23095	707.5	22.15	23.00	1.216	-0.05	0.040	0.049
	LTE Band 12	10M	25	25	QPSK	Back	10	23095	707.5	22.15	23.00	1.216	0.01	0.079	0.096
	LTE Band 4	20M	1	0	QPSK	Front	10	20175	1732.5	23.56	24.00	1.107	0.09	0.696	0.770
23	LTE Band 4	20M	1	0	QPSK	Back	10	20175	1732.5	23.56	24.00	1.107	0.06	0.772	<mark>0.854</mark>
	LTE Band 4	20M	50	0	QPSK	Front	10	20175	1732.5	22.52	23.00	1.117	-0.03	0.563	0.629
	LTE Band 4	20M	50	0	QPSK	Back	10	20175	1732.5	22.52	23.00	1.117	0.01	0.620	0.692
	LTE Band 4	20M	100	0	QPSK	Back	10	20175	1732.5	22.41	23.00	1.146	0.16	0.617	0.707
18	LTE Band 2	20M	1	0	QPSK	Front	10	19100	1900	21.72	22.00	1.067	-0.14	0.783	<mark>0.835</mark>
	LTE Band 2	20M	1	0	QPSK	Back	10	19100	1900	21.72	22.00	1.067	0.04	0.700	0.747
	LTE Band 2	20M	1	0	QPSK	Front	10	18700	1860	21.51	22.00	1.119	-0.14	0.603	0.675
	LTE Band 2	20M	1	0	QPSK	Front	10	18900	1880	21.67	22.00	1.079	-0.09	0.696	0.751
	LTE Band 2	20M	50	24	QPSK	Front	10	19100	1900	20.59	21.00	1.099	-0.13	0.626	0.688
	LTE Band 2	20M	50	24	QPSK	Back	10	19100	1900	20.59	21.00	1.099	0.01	0.546	0.600
	LTE Band 2	20M	100	0	QPSK	Front	10	19100	1900	20.58	21.00	1.102	-0.03	0.601	0.662
	LTE Band 7	20M	1	49	QPSK	Front	10	21100	2535	21.76	22.00	1.057	-0.03	0.349	0.369
	LTE Band 7	20M	1	49	QPSK	Back	10	21100	2535	21.76	22.00	1.057	0.01	0.852	0.900
19	LTE Band 7	20M	1	49	QPSK	Back	10	20850	2510	21.49	22.00	1.125	0.01	1.020	<mark>1.147</mark>
	LTE Band 7	20M	1	49	QPSK	Back	10	21350	2560	21.55	22.00	1.109	-0.05	0.711	0.789
	LTE Band 7	20M	50	50	QPSK	Front	10	21100	2535	20.60	21.00	1.096	-0.07	0.262	0.287
	LTE Band 7	20M	50	50	QPSK	Back	10	21100	2535	20.60	21.00	1.096	0.06	0.636	0.697
	LTE Band 7	20M	100	0	QPSK	Back	10	21100	2535	20.58	21.00	1.102	0.06	0.649	0.715

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<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	10	11	2462	14.34	15.00	1.165	97.35	1.027	-0.02	0.022	0.026
20	WLAN 2.4GHz	802.11b 1Mbps	Back	10	11	2462	14.34	15.00	1.165	97.35	1.027	-0.09	0.047	0.056
	WLAN 2.4GHz	802.11b 1Mbps	Back	10	1	2412	12.18	13.00	1.209	97.35	1.027	-0.03	0.028	0.035
	WLAN 2.4GHz	802.11b 1Mbps	Back	10	6	2437	13.08	13.50	1.102	97.35	1.027	-0.02	0.036	0.041

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10	39	2441	8.57	9.00	1.103	-0.19	0.00815	0.009
24	Bluetooth	1Mbps	Back	10	39	2441	8.57	9.00	1.103	-0.04	0.014	<mark>0.015</mark>
	Bluetooth	1Mbps	Back	10	0	2402	6.92	7.50	1.142	-0.07	0.013	0.015
	Bluetooth	1Mbps	Back	10	78	2480	7.50	8.00	1.121	-0.14	0.00994	0.011

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14.4 Repeated SAR Measurement

No.	Band	BW (MHz)	RB Size	RB Offset	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA Band IV	-	-	•	RMC12.2Kbps	Bottom Side	10	1513	1752.6	23.86	24.50	1.159	-0.04	0.859	1	0.995
2nd	WCDMA Band IV	-	1	-	RMC12.2Kbps	Bottom Side	10	1513	1752.6	23.86	24.50	1.159	-0.08	0.857	1.002	0.993
1st	WCDMA Band II	-	-	-	RMC12.2Kbps	Front	10	9538	1907.6	22.69	23.00	1.074	0.01	0.936	1	1.005
2nd	WCDMA Band II	-	-	-	RMC12.2Kbps	Front	10	9538	1907.6	22.69	23.00	1.074	-0.19	0.898	1.043	0.964
1st	LTE Band 7	20M	1	49	QPSK	Back	10	20850	2510	21.49	22.00	1.125	0.01	1.020	1	1.147
2nd	LTE Band 7	20M	1	49	QPSK	Back	10	20850	2510	21.49	22.00	1.125	0.01	1.010	1.010	1.136

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General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated measured SAR.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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15. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission	P	ortable Hands	et	Note
NO.	Configurations	Head	Body-worn	Hotspot	Note
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		
2.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
4.	LTE + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
5 .	GSM Voice + Bluetooth		Yes		
6.	GPRS/EDGE + Bluetooth		Yes		WWAN VoIP
7.	WCDMA+ Bluetooth		Yes		WWAN VoIP
8.	LTE + Bluetooth		Yes		WWAN VoIP

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General Note:

- This device supported VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP).
- 2. This device 2.4GHz WLAN supports Hotspot operation.
- WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 5. The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,

 - i) Scalar SAR summation < 1.6W/kg.
 ii) SPLSR = (SAR₁ + SAR₂)^{1.5} / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x₁-x₂)² + (y₁-y₂)² + (z₁-z₂)²], where (x₁, y₁, z₁) and (x₂, y₂, z₂) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

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15.1 Head Exposure Conditions

<WWAN + WLAN 2.4GHz >

	WLAN 2.4GF		WWAN	WLAN	Summed		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	Suffified SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.638	0.099	0.74		
	GSM850	Right Tilted	0.391	0.057	0.45		
	GOIVIOO	Left Cheek	0.650	0.028	0.68		
GSM		Left Tilted	0.341	0.020	0.36		
GSIVI		Right Cheek	0.417	0.099	0.52		
	GSM1900	Right Tilted	0.123	0.057	0.18		
	GSW1900	Left Cheek	0.326	0.028	0.35		
		Left Tilted	0.127	0.020	0.15		
		Right Cheek	0.397	0.099	0.50		
	Dand V	Right Tilted	0.253	0.057	0.31		
	Band V	Left Cheek	0.366	0.028	0.39		
		Left Tilted	0.216	0.020	0.24		
		Right Cheek	0.556	0.099	0.66		
WCDMA	Dand IV	Right Tilted	0.207	0.057	0.26		
WCDIVIA	Band IV	Left Cheek	0.399	0.028	0.43		
		Left Tilted	0.234	0.020	0.25		
		Right Cheek	0.364	0.099	0.46		
	D	Right Tilted	0.111	0.057	0.17		
	Band II	Left Cheek	0.285	0.028	0.31		
		Left Tilted	0.120	0.020	0.14		
		Right Cheek	0.058	0.099	0.16		
	D = = 1.40	Right Tilted	0.032	0.057	0.09		
	Band 12	Left Cheek	0.038	0.028	0.07		
		Left Tilted	0.025	0.020	0.05		
		Right Cheek	0.267	0.099	0.37		
	D 14	Right Tilted	0.111	0.057	0.17		
	Band 4	Left Cheek	0.243	0.028	0.27		
		Left Tilted	0.113	0.020	0.13		
LTE		Right Cheek	0.333	0.099	0.43		
		Right Tilted	0.109	0.057	0.17		
	Band 2	Left Cheek	0.277	0.028	0.31		
		Left Tilted	0.103	0.020	0.12		
		Right Cheek	0.374	0.099	0.47		
	- · -	Right Tilted	0.362	0.057	0.42		
	Band 7	Left Cheek	0.692	0.028	0.72		
		Left Tilted	0.248	0.020	0.27		

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15.2 Hotspot Exposure Conditions

<WWAN + WLAN 2.4GHz>

			WWAN	WLAN	Summed		
WWA	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.880	0.026	0.91		
		Back	0.947	0.056	1.00		
	GSM850	Left side	0.606	0.025	0.63		
		Top side		0.013	0.01		
GSM		Bottom side	0.251		0.25		
GSIVI		Front	1.029	0.026	1.06		
		Back	0.955	0.056	1.01		
	GSM1900	Left side	0.205	0.025	0.23		
		Top side		0.013	0.01		
		Bottom side	1.041		1.04		
		Front	0.516	0.026	0.54		
		Back	0.651	0.056	0.71		
	Band V	Left side	0.460	0.025	0.49		
		Top side		0.013	0.01		
		Bottom side	0.161		0.16		
		Front	0.874	0.026	0.90		
		Back	0.876	0.056	0.93		
WCDMA	Band IV	Left side	0.192	0.025	0.22		
		Top side		0.013	0.01		
		Bottom side	1.047		1.05		
		Front	1.005	0.026	1.03		
		Back	0.898	0.056	0.95		
	Band II	Left side	0.198	0.025	0.22		
		Top side		0.013	0.01		
		Bottom side	1.000		1.00		

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WWA	N Band	Exposure Position	WWAN Max. WWAN SAR (W/kg)	WLAN Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Front	0.049	0.026	0.08		
		Back	0.126	0.056	0.18		
	Band 12 Left side 0.046 0.025 0.07 Top side 0.013 0.01 Bottom side 0.018 0.02						
		Top side		0.013	0.01		
		Bottom side	0.018		0.02		
		Front	0.770	0.026	0.80		
		Back	0.854	0.056	0.91		
	Band 4	Left side	0.208	0.025	0.23		
		Top side		0.013	0.01		
LTE		Bottom side	0.910		0.91		
		Front	0.835	0.026	0.86		
		Back	0.747	0.056	0.80		
	Band 2	Left side	0.178	0.025	0.20		
		Top side		0.013	0.01		
		Bottom side	0.834		0.83		
		Front	0.369	0.026	0.40		
		Back	1.147	0.056	<mark>1.20</mark>		
	Band 7	Left side	0.457	0.025	0.48		
		Top side		0.013	0.01		
		Bottom side	0.705		0.71		

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15.3 Body-Worn Accessory Exposure Conditions

<WWAN + WLAN 2.4GHz>

WWAN Band			WWAN	WLAN	Summed	SPLSR	Case No
		Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)		
GSM	GSM850	Front	0.880	0.026	0.91		
		Back	0.947	0.056	1.00		
	GSM1900	Front	1.029	0.026	1.06		
		Back	0.955	0.056	1.01		
	Band V	Front	0.516	0.026	0.54		
		Back	0.651	0.056	0.71		
WCDMA	Band IV	Front	0.874	0.026	0.90		
WCDIVIA		Back	0.876	0.056	0.93		
	Band II	Front	1.005	0.026	1.03		
		Back	0.898	0.056	0.95		
LTE	Band 12	Front	0.049	0.026	0.08		
		Back	0.126	0.056	0.18		
	Band 4	Front	0.770	0.026	0.80		
		Back	0.854	0.056	0.91		
	Band 2	Front	0.835	0.026	0.86		
		Back	0.747	0.056	0.80		
	Band 7	Front	0.369	0.026	0.40		
		Back	1.147	0.056	1.20		

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<WWAN + Bluetooth>

WWAN Band			WWAN	Bluetooth	Summed		Case No
		Exposure Position	Max. WWAN SAR (W/kg)	Bluetooth SAR (W/kg)	SAR (W/kg)	SPLSR	
GSM	GSM850	Front	0.880	0.009	0.89		
		Back	0.947	0.015	0.96		
	GSM1900	Front	1.029	0.009	1.04		
		Back	0.955	0.015	0.97		
WCDMA	Band V	Front	0.516	0.009	0.53		
		Back	0.651	0.015	0.67		
	Band IV	Front	0.874	0.009	0.88		
		Back	0.876	0.015	0.89		
	Band II	Front	1.005	0.009	1.01		
		Back	0.898	0.015	0.91		
LTE	Band 12	Front	0.049	0.009	0.06		
		Back	0.126	0.015	0.14		
	Band 4	Front	0.770	0.009	0.78		
		Back	0.854	0.015	0.87		
	Band 2	Front	0.835	0.009	0.84		
		Back	0.747	0.015	0.76		
	Band 7	Front	0.369	0.009	0.38		
		Back	1.147	0.015	<mark>1.16</mark>		

Test Engineer: Luke Lu

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16. <u>Uncertainty Assessment</u>

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

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A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 16.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

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Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.0	N	1	1	1	6.0	6.0
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2
Test Sample Related							
Device Positioning	3.0	Ν	1	1	1	3.0	3.0
Device Holder	3.6	Ν	1	1	1	3.6	3.6
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1
Cor	11.4%	11.4%					
Coverage Factor for 95 %							K=2
Expanded STD Uncertainty							22.7%

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Table 16.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

17. References

[1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- SPEAG DASY System Handbook [4]
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r04, "SAR Evaluation Considerations for LTE Devices", Oct 2015
- [10] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [11] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [12] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.

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Appendix A. Plots of System Performance Check

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The plots are shown as follows.

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System Check_Head_750MHz_151102

DUT: D750V3-SN:1065

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750_151102 Medium parameters used: f = 750 MHz; σ = 0.88 S/m; ϵ_r = 40.752; ρ =

Date: 2015.11.02

 1000 kg/m^3

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

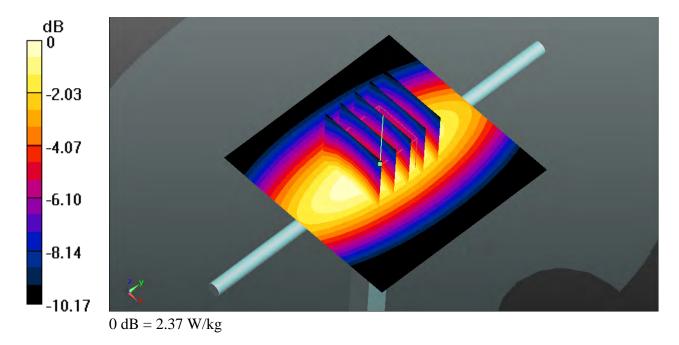
DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.88, 10.88, 10.88); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.37 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 51.73 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 2.76 W/kg SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.37 W/kg

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



System Check_Head_835MHz_151102

DUT: D835V2-SN:4d091

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSl_835_151102 Medium parameters used: f=835 MHz; $\sigma=0.887$ S/m; $\epsilon_r=41.987$; $\rho=0.887$ MHz; $\sigma=0.887$ S/m; $\epsilon_r=41.987$; $\rho=0.887$ S/m; $\epsilon_r=41.987$; $\epsilon_r=41$

Date: 2015.11.02

 1000 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.9 °C

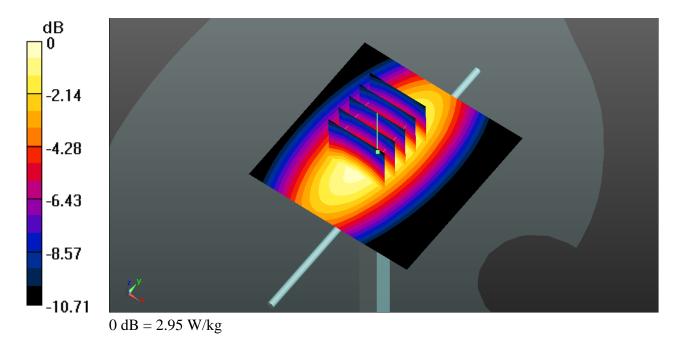
DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.95 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 56.73 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 3.47 W/kg SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.97 W/kg



System Check_Head_1750MHz_151031

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz;Duty Cycle: 1:1 Medium: HSL_1800_151031 Medium parameters used: f = 1750 MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 41.322$; $\rho = 1000$ kg/m³

Date: 2015.10.31

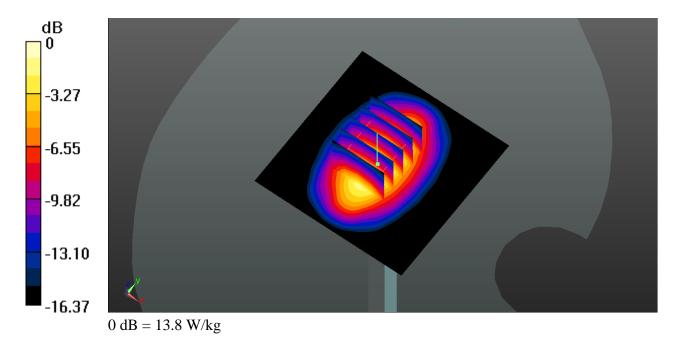
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.45, 8.45, 8.45); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.8 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 100.9 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 17.3 W/kg SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.25 W/kg Maximum value of SAR (measured) = 13.9 W/kg



System Check_Head_1900MHz_151031

DUT: D1900V2-SN:5d118

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_151031 Medium parameters used: f = 1900 MHz; $\sigma = 1.415$ S/m; $\varepsilon_r = 41.124$;

Date: 2015.10.31

 $\rho = 1000 \text{ kg/m}^3$

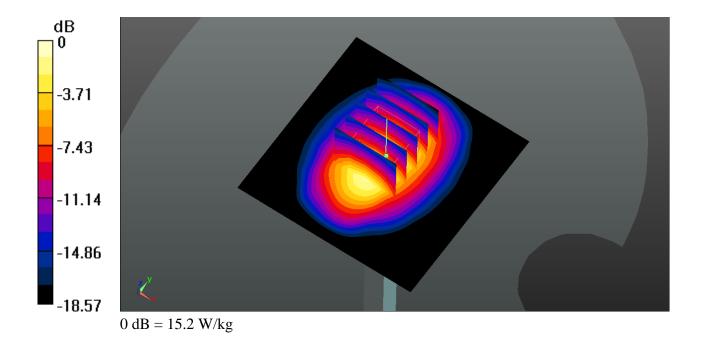
Ambient Temperature: 23.3 °C ; **Liquid Temperature**: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.18, 8.18, 8.18); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 15.2 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 102.9 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.9 W/kg SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.47 W/kg Maximum value of SAR (measured) = 14.7 W/kg



System Check_Head_2450MHz_151029

DUT: D2450V2-SN:926

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

Medium: HSL_2450_151029 Medium parameters used: f = 2450 MHz; $\sigma = 1.752$ S/m; $\varepsilon_r = 39.797$;

Date: 2015.10.29

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.7 $^{\circ}$ C

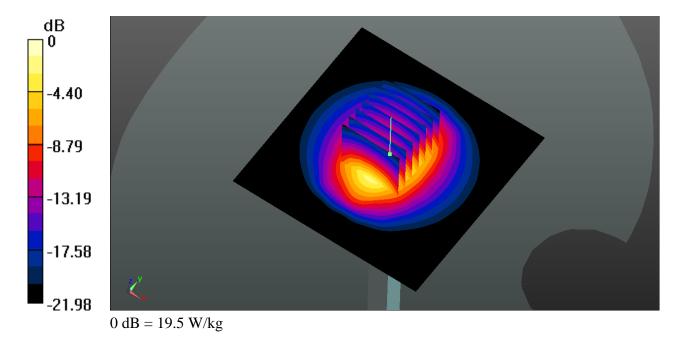
DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.58, 7.58, 7.58); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 19.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 92.02 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 26.6 W/kg SAR(1 g) = 13 W/kg; SAR(10 g) = 6.03 W/kg

Maximum value of SAR (measured) = 19.8 W/kg



System Check_Head_2600MHz_151029

DUT: D2600V2-SN:1061

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

Medium: HSL_2600_151029 Medium parameters used: f = 2600 MHz; $\sigma = 2.056$ S/m; $\varepsilon_r = 37.575$;

Date: 2015.10.29

 $\rho = 1000 \text{ kg/m}^3$

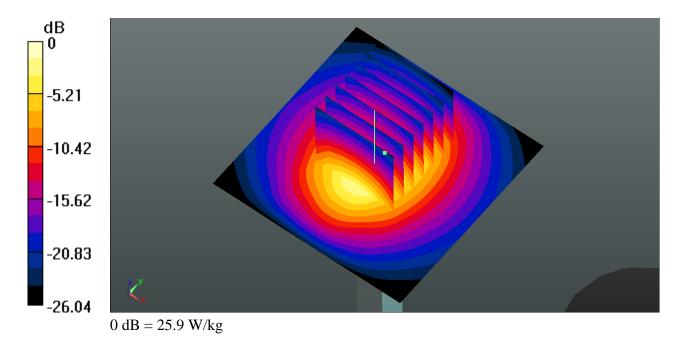
Ambient Temperature: 23.4 $^{\circ}\mathrm{C}$; Liquid Temperature: 22.5 $^{\circ}\mathrm{C}$

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.46, 7.46, 7.46); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 25.9 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 99.13 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 34.3 W/kg SAR(1 g) = 15.01 W/kg; SAR(10 g) = 6.53 W/kg Maximum value of SAR (measured) = 19.7 W/kg



System Check_Body_750MHz_151101

DUT: D750V3-SN:1065

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: MSL_750_151101 Medium parameters used: f=750 MHz; $\sigma=0.97$ S/m; $\epsilon_r=54.642$; $\rho=0.97$ S/m; $\epsilon_r=0.97$ S/m; $\epsilon_r=0.$

Date: 2015.11.01

 1000 kg/m^3

Ambient Temperature: 23.6 $^{\circ}$ C; Liquid Temperature: 22.7 $^{\circ}$ C

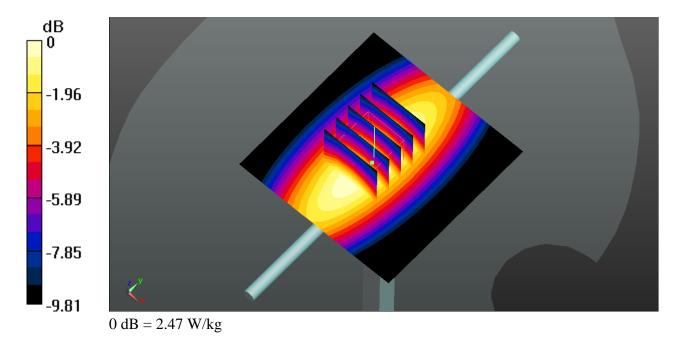
DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.35, 10.35, 10.35); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.47 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 46.61 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 2.88 W/kg SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 2.48 W/kg



System Check_Body_835MHz_151101

DUT: D835V2-SN:4d091

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL_835_151101 Medium parameters used: f = 835 MHz; σ = 1.011 S/m; ϵ_r = 56.243; ρ

Date: 2015.11.01

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6 $^{\circ}$ C; Liquid Temperature: 22.5 $^{\circ}$ C

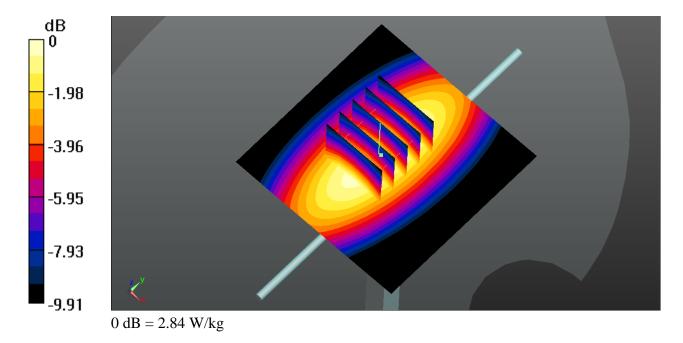
DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.19, 10.19, 10.19); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.84 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 52.60 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 3.75 W/kg SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.60 W/kg

Maximum value of SAR (measured) = 2.82 W/kg



System Check_Body_1750MHz_151027

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL_1800_151027 Medium parameters used: f = 1750 MHz; $\sigma = 1.524$ S/m; $\varepsilon_r = 52.564$;

Date: 2015.10.27

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

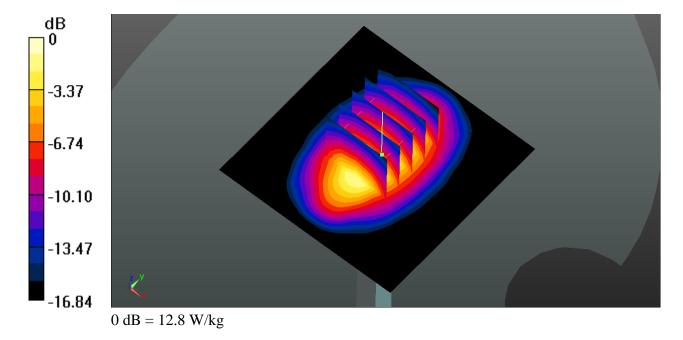
DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.2, 8.2, 8.2); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 12.8 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 93.48 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 15.8 W/kg SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.89 W/kg

Maximum value of SAR (measured) = 12.7 W/kg



System Check_Body_1750MHz_151028

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL_1800_151028 Medium parameters used: f = 1750 MHz; $\sigma = 1.527$ S/m; $\varepsilon_r = 52.035$;

Date: 2015.10.28

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

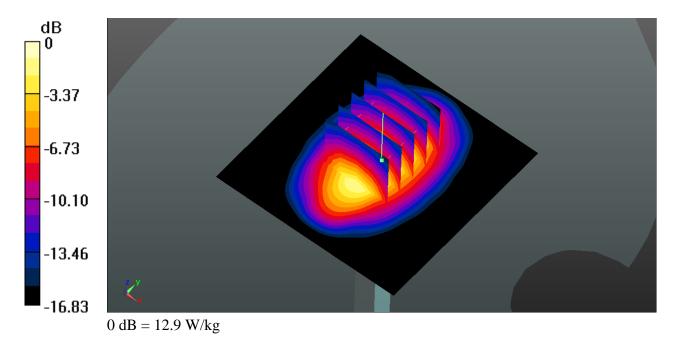
DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.2, 8.2, 8.2); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 12.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 93.48 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 15.8 W/kg SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.9 W/kg

Maximum value of SAR (measured) = 12.7 W/kg



System Check_Body_1900MHz_151027

DUT: D1900V2-SN:5d118

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151027 Medium parameters used: f = 1900 MHz; $\sigma = 1.581$ S/m; $\varepsilon_r = 54.208$;

Date: 2015.10.27

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.9 °C

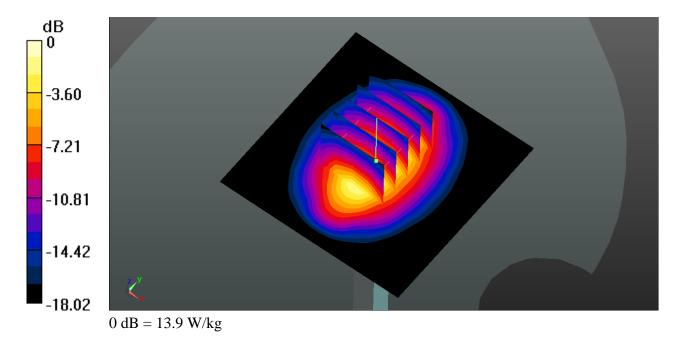
DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.87, 7.87, 7.87); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 83.10 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 17.4 W/kg SAR(1 g) = 9.71 W/kg; SAR(10 g) = 5.04 W/kg

Maximum value of SAR (measured) = 13.5 W/kg



System Check_Body_1900MHz_151028

DUT: D1900V2-SN:5d118

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151028 Medium parameters used: f = 1900 MHz; $\sigma = 1.519$ S/m; $\varepsilon_r = 53.569$;

Date: 2015.10.28

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C ; **Liquid Temperature**: 22.9 °C

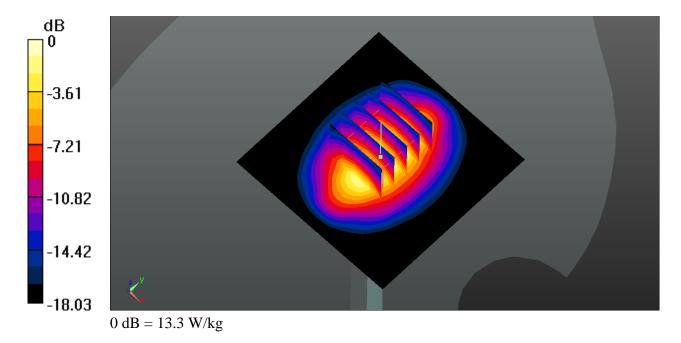
DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.87, 7.87, 7.87); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 83.10 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 16.7 W/kg SAR(1 g) = 9.43 W/kg; SAR(10 g) = 4.95 W/kg

Maximum value of SAR (measured) = 13.0 W/kg



System Check_Body_2450MHz_151101

DUT: D2450V2-SN:926

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

Medium: MSL_2450_151101 Medium parameters used: f = 2450 MHz; $\sigma = 1.909$ S/m; $\varepsilon_r = 50.971$;

Date: 2015.11.01

 $\rho = 1000 \text{ kg/m}^3$

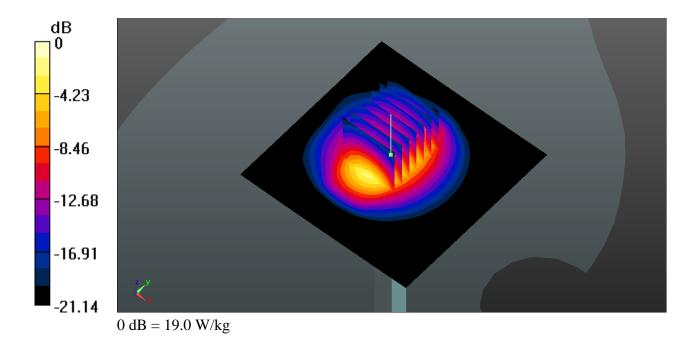
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(7.34, 7.34, 7.34); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 19.0 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 78.00 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 23.9 W/kg SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.77 W/kg Maximum value of SAR (measured) = 18.0 W/kg



System Check_Body_2600MHz_151030

DUT: D2600V2-SN:1061

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

Medium: MSL_2600_151030 Medium parameters used: f = 2600 MHz; $\sigma = 2.201$ S/m; $\varepsilon_r = 50.729$;

Date: 2015.10.30

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C ; **Liquid Temperature**: 22.8 °C

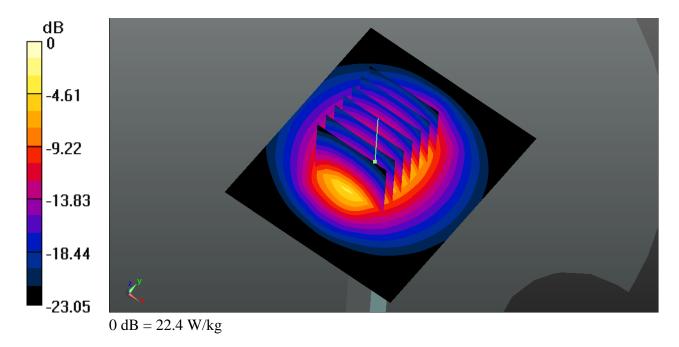
DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.41, 7.41, 7.41); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 22.4 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 95.36 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 27.9 W/kg SAR(1 g) = 13.3 W/kg; SAR(10 g) = 5.98 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 5.98 W/kg Maximum value of SAR (measured) = 20.6 W/kg



Appendix B. Plots of High SAR Measurement

Report No.: FA591106

The plots are shown as follows.

SPORTON INTERNATIONAL (SHENZHEN) INC.

01_GSM850_GPRS(4 Tx slots)_Left Cheek_Ch251

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: HSl_835_151102 Medium parameters used: f = 848.8 MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 41.543$; $\rho = 1000$ kg/m³

Date: 2015.11.02

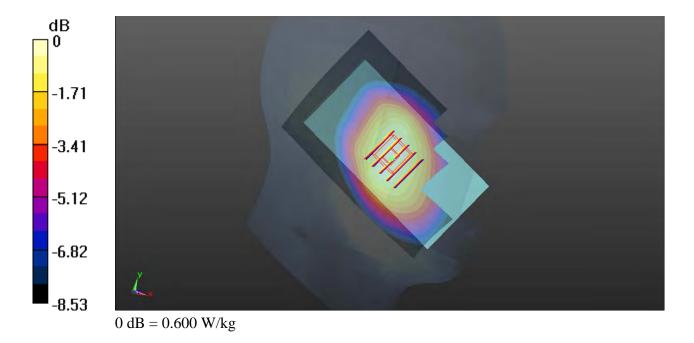
Ambient Temperature: 23.4 $^{\circ}$ C; Liquid Temperature: 22.9 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.600 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.754 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.661 W/kg SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.418 W/kg Maximum value of SAR (measured) = 0.604 W/kg



02_GSM1900_GPRS(4 Tx slots)_Right Cheek_Ch810

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.08 Medium: HSL_1900_151031 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.421$ S/m; $\epsilon_r = 41.093$;

Date: 2015.10.31

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.18, 8.18, 8.18); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.463 W/kg

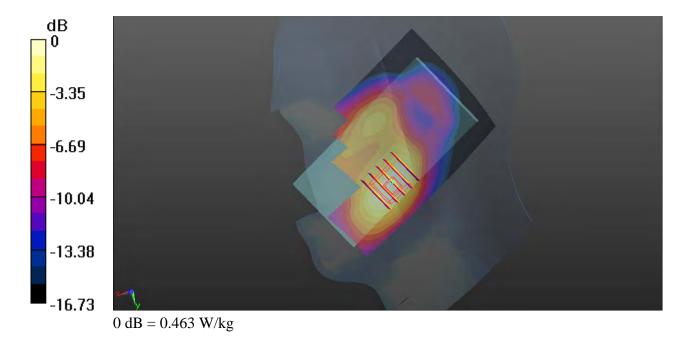
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.303 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.560 W/kg

SAR(1 g) = 0.360 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 0.456 W/kg



Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1 Medium: HSl_835_151102 Medium parameters used: f = 846.6 MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 41.628$; $\rho = 1000$ kg/m³

Date: 2015.11.02

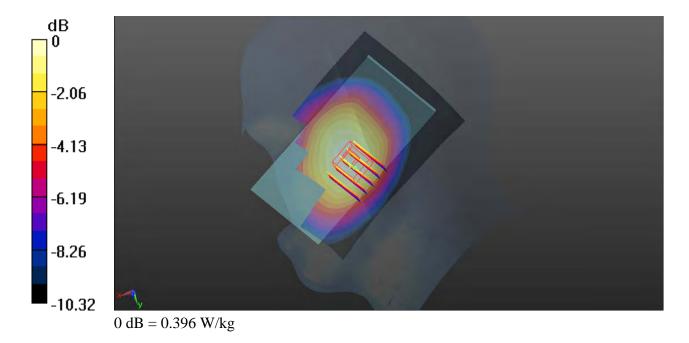
Ambient Temperature: 23.4 $^{\circ}$ C; Liquid Temperature: 22.9 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.396 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.482 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.433 W/kg SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.264 W/kg Maximum value of SAR (measured) = 0.395 W/kg



04_WCDMA Band IV_RMC 12.2Kbps_Right Cheek_Ch1513

Communication System: UID 0, UMTS (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1 Medium: HSL_1800_151031 Medium parameters used: f = 1752.6 MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 41.307$; $\rho = 1000$ kg/m3

Date: 2015.10.31

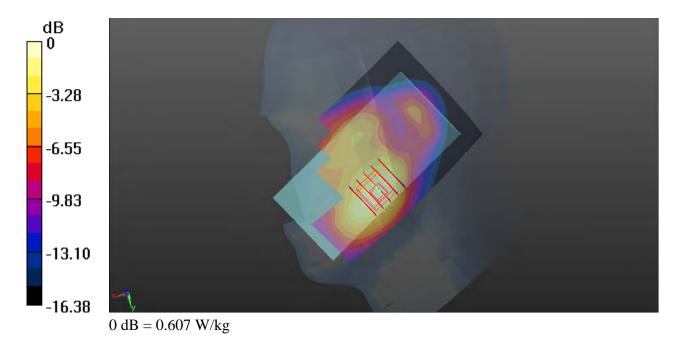
Ambient Temperature: 23.2 $^{\circ}$ C; Liquid Temperature: 22.6 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.45, 8.45, 8.45); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.607 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.127 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 0.710 W/kg SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.307 W/kg Maximum value of SAR (measured) = 0.594 W/kg



05_WCDMA Band II_RMC 12.2Kbps_Right Cheek_Ch9538

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: HSL_1900_151031 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m3

Date: 2015.10.31

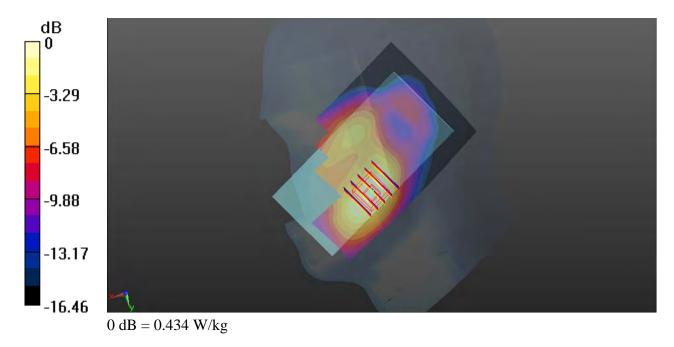
Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.7 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.18, 8.18, 8.18); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.434 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.183 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.526 W/kg SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.204 W/kg Maximum value of SAR (measured) = 0.433 W/kg



Communication System: UID 0, LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: HSL_750_151102 Medium parameters used: f = 707.5 MHz; $\sigma = 0.857$ S/m; $\epsilon_r = 41.674$;

Date: 2015.11.02

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.88, 10.88, 10.88); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.0575 W/kg

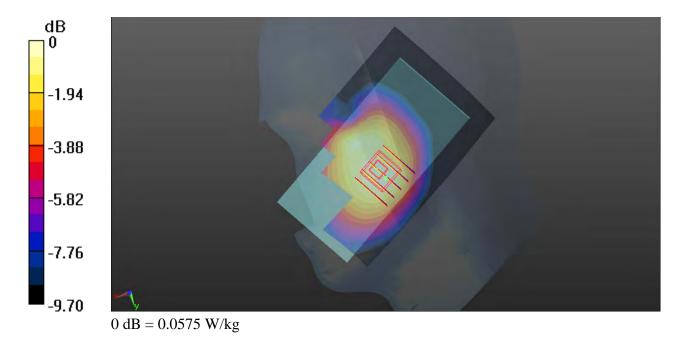
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.5540 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0650 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.038 W/kg

Maximum value of SAR (measured) = 0.0592 W/kg



Communication System: UID 0, LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL_1800_151031 Medium parameters used: f = 1732.5 MHz; σ = 1.361 S/m; ϵ_r =

Date: 2015.10.31

41.412; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.2 $^{\circ}$ C; Liquid Temperature: 22.6 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.45, 8.45, 8.45); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.285 W/kg

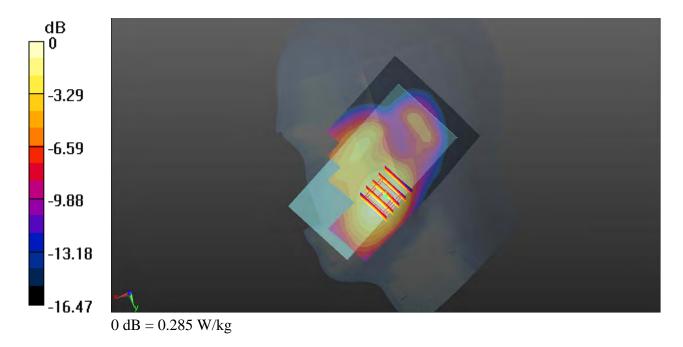
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.606 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.290 W/kg



Communication System: UID 0, LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1

 $Medium: HSL_1900_151031 \ Medium \ parameters \ used: f = 1900 \ MHz; \ \sigma = 1.415 \ S/m; \ \epsilon_r = 41.124;$

Date: 2015.10.31

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 °C ; **Liquid Temperature**: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(8.18, 8.18, 8.18); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.385 W/kg

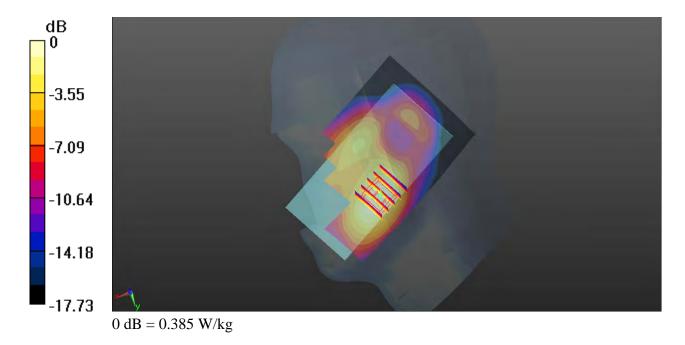
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.147 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.400 W/kg



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

Medium: HSL_2600_151029 Medium parameters used: f = 2510 MHz; $\sigma = 1.953$ S/m; $\epsilon_r = 37.916$;

Date: 2015.10.29

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 $^{\circ}$ C; Liquid Temperature: 22.5 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.46, 7.46, 7.46); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.851 W/kg

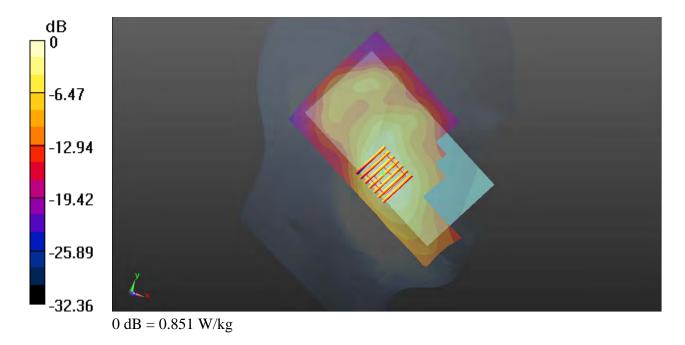
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.026 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (measured) = 0.822 W/kg



10_WLAN2.4GHz_802.11b 1Mbps_Right Cheek_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1.027 Medium: HSL_2450_151029 Medium parameters used: f = 2462 MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 39.76$; $\rho = 1000$ kg/m³

Date: 2015.10.29

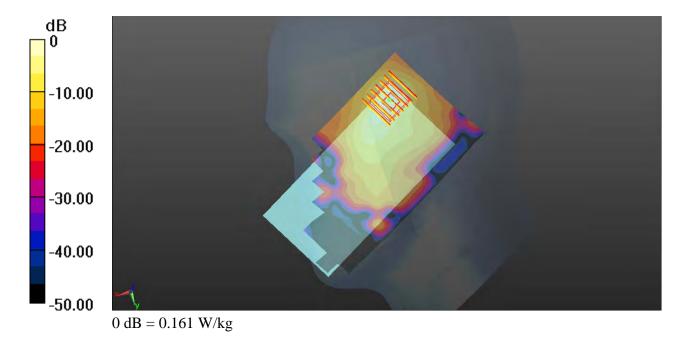
Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.7 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.58, 7.58, 7.58); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.161 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 0.2340 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.239 W/kg SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.035 W/kg Maximum value of SAR (measured) = 0.141 W/kg



11_GSM850_GPRS(4 Tx slots)_Back_10mm_Ch251

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_835_151101 Medium parameters used: f = 848.8 MHz; $\sigma = 1.026$ S/m; $\epsilon_r = 56.11$; $\rho = 1000$ kg/m³

Date: 2015.11.01

Ambient Temperature: 23.6 $^{\circ}$ C; Liquid Temperature: 22.5 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.19, 10.19, 10.19); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.936 W/kg

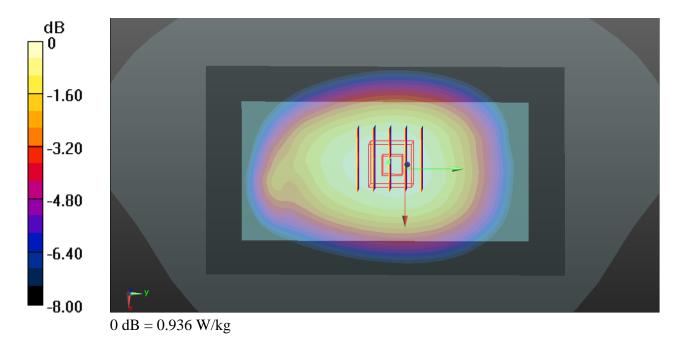
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.452 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.991 W/kg

SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.606 W/kg

Maximum value of SAR (measured) = 0.906 W/kg



Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_1900_151028 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.529$ S/m; $\varepsilon_r = 53.552$; $\rho = 1000$ kg/m3

Date: 2015.10.28

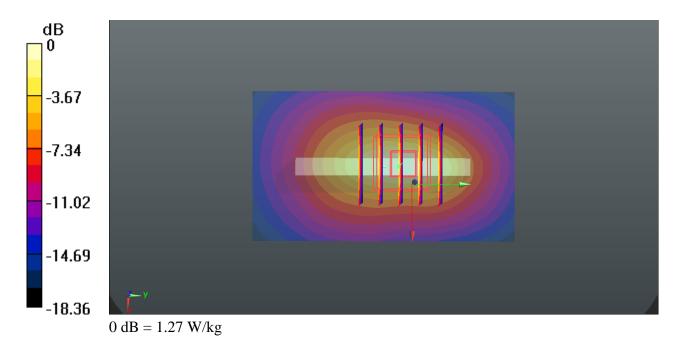
Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.9 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.87, 7.87, 7.87); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.27 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.380 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.54 W/kg SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.465 W/kg Maximum value of SAR (measured) = 1.26 W/kg



Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1 Medium: MSL_835_151101 Medium parameters used: f = 846.6 MHz; $\sigma = 1.024$ S/m; $\epsilon_r = 56.127$; $\rho = 1000$ kg/m3

Date: 2015.11.01

Ambient Temperature: 23.6 $^{\circ}$ C; Liquid Temperature: 22.5 $^{\circ}$ C

DASY5 Configuration:

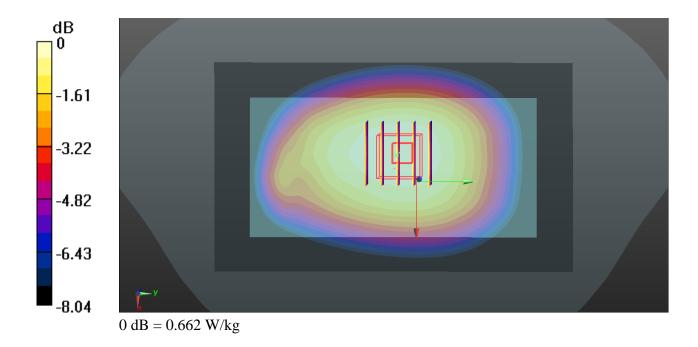
- Probe: EX3DV4 SN3935; ConvF(10.19, 10.19, 10.19); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.662 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.033 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.439 W/kgMaximum value of SAR (measured) = 0.657 W/kg



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

Medium: MSL_1800_151028 Medium parameters used: f = 1712.4 MHz; $\sigma = 1.486$ S/m; $\varepsilon_r = 1.486$ S/m; ε_r

Date: 2015.10.28

52.199; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.2, 8.2, 8.2); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 W/kg

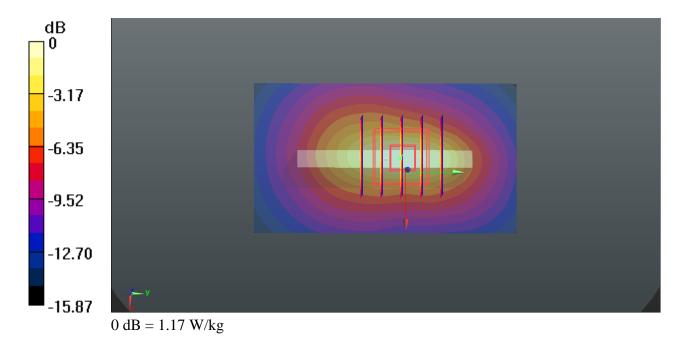
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.120 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.462 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: MSL_1900_151028 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.527$ S/m; $\epsilon_r = 53.556$; $\rho = 1000$ kg/m3

Date: 2015.10.28

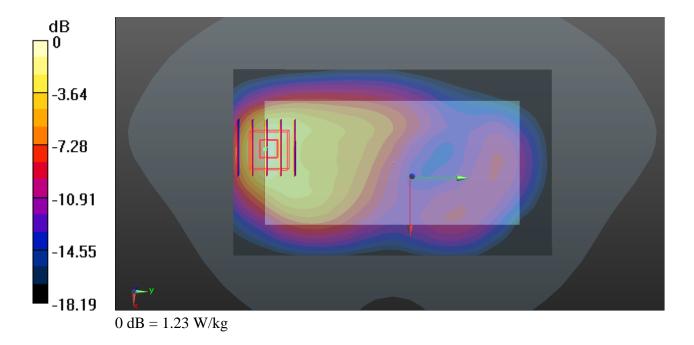
Ambient Temperature: 23.3 $^{\circ}$ C; **Liquid Temperature**: 22.9 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.87, 7.87, 7.87); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.23 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.352 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.58 W/kg SAR(1 g) = 0.936 W/kg; SAR(10 g) = 0.502 W/kg Maximum value of SAR (measured) = 1.27 W/kg



Communication System: UID 0, LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: MSL_750_151101 Medium parameters used: f = 707.5 MHz; $\sigma = 0.941$ S/m; $\epsilon_r = 55.606$;

Date: 2015.11.01

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6 $^{\circ}$ C; **Liquid Temperature**: 22.7 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(10.35, 10.35, 10.35); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.124 W/kg

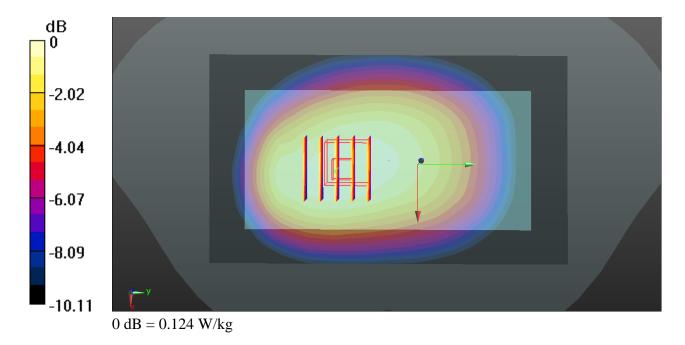
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.507 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.081 W/kg

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



Date: 2015.10.27

Communication System: UID 0, LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: MSL_1800_151027 Medium parameters used: f = 1732.5 MHz; $\sigma = 1.504$ S/m; $\epsilon_r =$

52.599; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.2, 8.2, 8.2); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

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

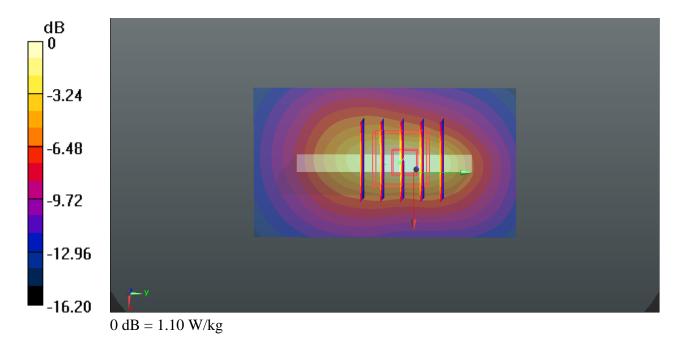
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.120 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.442 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



Communication System: UID 0, LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_151027 Medium parameters used: f = 1900 MHz; $\sigma = 1.581$ S/m; $\varepsilon_r = 54.208$;

Date: 2015.10.27

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.87, 7.87, 7.87); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.918 W/kg

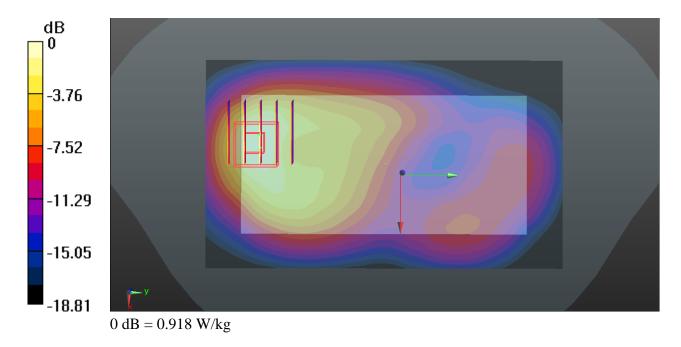
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.952 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.412 W/kg

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



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

Medium: MSL_2600_151030 Medium parameters used: f = 2510 MHz; $\sigma = 2.09$ S/m; $\epsilon_r = 51.263$; ρ

Date: 2015.10.30

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.41, 7.41, 7.41); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm

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

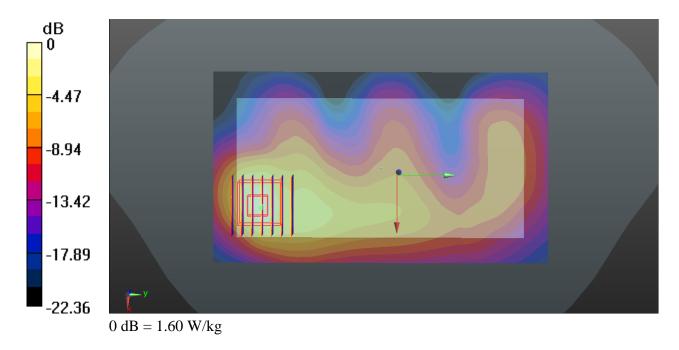
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.966 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.464 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



20_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1.027

Medium: MSL_2450_151101 Medium parameters used: f = 2462 MHz; $\sigma = 1.928$ S/m; $\epsilon_r = 50.903$;

Date: 2015.11.01

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.2 $^{\circ}$ C; Liquid Temperature: 22.6 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(7.34, 7.34, 7.34); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0850 W/kg

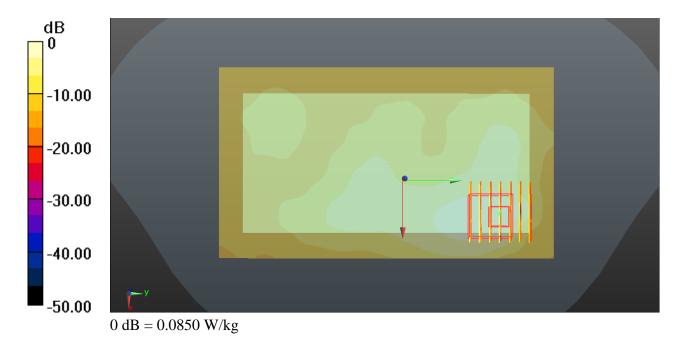
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.481 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.118 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.0776 W/kg



21_GSM1900_GPRS(4 Tx slots)_Front_10mm_Ch810

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_1900_151028 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.529$ S/m; $\epsilon_r = 53.552$; $\rho = 1000$ kg/m3

Date: 2015.10.28

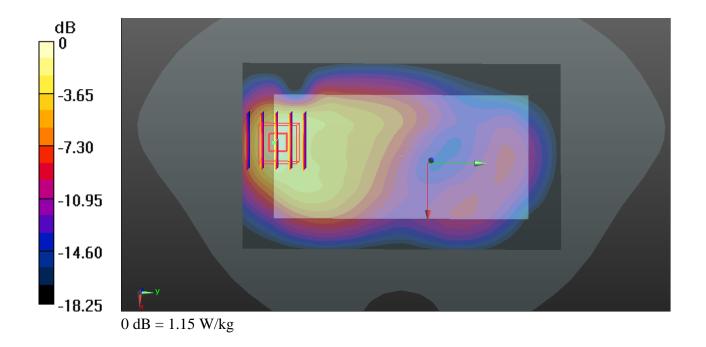
Ambient Temperature: 23.3 $^{\circ}$ C; **Liquid Temperature**: 22.9 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.87, 7.87, 7.87); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.15 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.272 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.51 W/kg SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.473 W/kg Maximum value of SAR (measured) = 1.22 W/kg



Communication System: UID 0, UMTS (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1 Medium: MSL_1800_151028 Medium parameters used: f = 1752.6 MHz; $\sigma = 1.531$ S/m; $\epsilon_r = 52.028$; $\rho = 1000$ kg/m3

Date: 2015.10.28

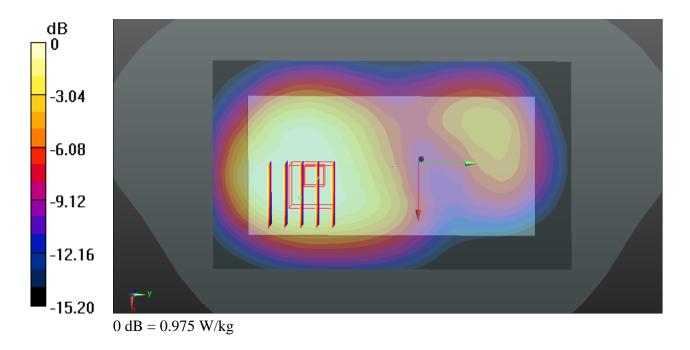
Ambient Temperature: 23.3 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.2, 8.2, 8.2); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.975 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.322 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 1.13 W/kg SAR(1 g) = 0.756 W/kg; SAR(10 g) = 0.495 W/kg Maximum value of SAR (measured) = 0.943 W/kg



Communication System: UID 0, LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: MSL_1800_151027 Medium parameters used: f = 1732.5 MHz; $\sigma = 1.504$ S/m; $\varepsilon_r =$

Date: 2015.10.27

52.599; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.4 $^{\circ}$ C; Liquid Temperature: 22.8 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.2, 8.2, 8.2); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 W/kg

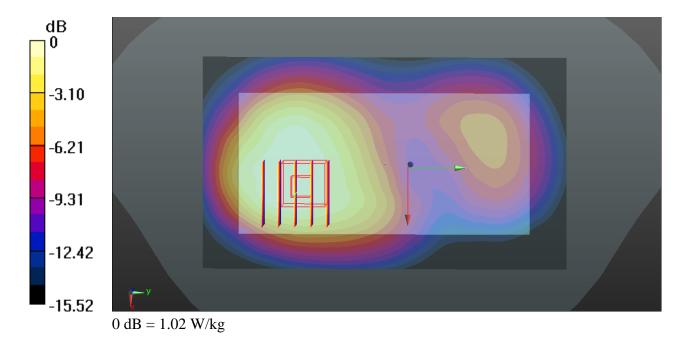
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.232 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.506 W/kg

Maximum value of SAR (measured) = 0.980 W/kg



24_Bluetooth_DH5_Back_10mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.2

Medium: MSL_2450_151101 Medium parameters used: f = 2441 MHz; $\sigma = 1.895$ S/m; $\varepsilon_r = 51.064$;

Date: 2015.11.01

 $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.2 $^{\circ}$ C; Liquid Temperature: 22.6 $^{\circ}$ C

DASY5 Configuration:

- Probe: EX3DV4 SN3935; ConvF(7.34, 7.34, 7.34); Calibrated: 2014.11.18;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2014.11.14
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0266 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.428 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00612 W/kg

Maximum value of SAR (measured) = 0.0253 W/kg

