FCC SAR Test Report

APPLICANT : CT Asia

EQUIPMENT : Smart phone

: BLU **BRAND NAME**

MODEL NAME : Studio Mini LTE

FCC ID : YHLBLUSTMNLTE

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

We, SPORTON INTERNATIONAL (XI'AN) 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 (XI'AN) INC., the test report shall not be reproduced except in full.

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Approved by: Jones Tsai / Manager

Report No. : FA512806

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Revision History

Report No.: FA512806

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA512806	Rev. 01	Initial issue of report	Mar. 10, 2015

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for CT Asia, Smart phone, Studio Mini LTE are as follows.

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		Highest SAR Summary			
Equipment Class	Frequency Band	Head (Separation 0mm) 1g SAR (W/kg)	Body-worn (Separation 10mm) 1g SAR (W/kg)	Wireless Router (Separation 10mm) 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
	GSM850	0.44	1.00	1.00	
	GSM1900	0.36	0.73	0.80	
	WCDMA Band V	0.51	0.91	0.91	
PCE	WCDMA Band IV	0.40	0.99	0.99	1.26
	WCDMA Band II	0.61	1.11	1.19	
	LTE Band 4	0.38	0.70	0.70	
	LTE Band 7	0.55	0.88	1.26	
DTS	WLAN 2.4GHz Band	0.21	<0.10	<0.10	1.26
Date of Testing:		Feb. 08, 2015 ~ Mar, 02, 2015			

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 1528-2003.

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2. Administration Data

Testing Laboratory				
Test Site	SPORTON INTERNATIONAL (XI'AN) INC.			
Test Site Location	1F, Building A3, No. 39 Chuangye Rd., Xi'an Hi-tech Zone, Shanxi Province, P. R. C. TEL: +86-029-8860-8767 FAX: +86-029-8860-8791			

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Applicant			
Company Name CT Asia			
Address	Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong		

Manufacturer				
Company Name Beijing Benywave Wireless Communication Co., Ltd.				
Address NO.55 Jiachang 2 road, OPTO-Mechatronics Industrial Park, Tongzhou district, Beijing 101111				

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 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 248227 D01 SAR meas for 802 11abg v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03
- FCC KDB 941225 D05 SAR for LTE Devices v02r03
- FCC KDB 941225 D06 Hotspot Mode SAR v02

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4. Equipment Under Test (EUT)

4.1 General Information

Product Feature & Specification					
Equipment Name	Smart phone				
Brand Name	BLU				
Model Name	Studio Mini LTE				
FCC ID	YHLBLUSTMNLTE				
IMEI Code	866030020318002				
Wireless Technology and Frequency Range	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Mode	•GSM/GPRS/EGPRS •RMC/AMR 12.2Kbps •HSDPA •HSUPA •LTE: QPSK, 16QAM •802.11b/g/n HT20 •Bluetooth v3.0+EDR, Bluetooth v4.0 LE				
HW Version	TBW5725_P2_002				
SW Version	BLU_Z010Q_V01_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				

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- 2. This device 2.4GHz WLAN supports hotspot operation and 802.11n-HT40 is not supported in 2.4GHz WLAN.
- 3. The EUT do not support DTM function.
- 4. This device supported VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP).
- 5. This device supports GRPS/EGPRS mode up to multi-slot class12.
- 6. There are two SIM cards for EUT. SIM card 1 supports GSM and WCDMA functions, and SIM card 2 only supports GSM function.

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4.2 Maximum Tune-up Limit

Mode	Burst average power(dBm)		
Iviode	GSM 850	GSM 1900	
GSM (GMSK, 1 Tx slot)	34.0	30.5	
GPRS (GMSK, 1 Tx slot)	34.0	30.5	
GPRS (GMSK, 2 Tx slots)	30.5	28.0	
GPRS (GMSK, 3 Tx slots)	29.5	27.0	
GPRS (GMSK, 4 Tx slots)	29.0	25.5	
EDGE (8PSK, 1 Tx slot)	27.5	25.0	
EDGE (8PSK, 2 Tx slots)	27.0	24.5	
EDGE (8PSK, 3 Tx slots)	26.0	23.5	
EDGE (8PSK, 4 Tx slots)	24.5	22.0	

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Mode	Average power (dBm)			
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	
AMR 12.2Kbps	23.5	23.5	24.5	
RMC 12.2Kbps	23.5	23.5	24.5	
HSDPA Subtest-1	22.0	22.5	23.0	
HSDPA Subtest-2	22.0	22.5	23.0	
HSDPA Subtest-3	21.5	22.0	22.5	
HSDPA Subtest-4	21.5	22.0	22.5	
HSUPA Subtest-1	22.0	22.0	22.5	
HSUPA Subtest-2	21.0	21.0	22.0	
HSUPA Subtest-3	21.0	21.0	21.5	
HSUPA Subtest-4	21.0	21.5	22.5	
HSUPA Subtest-5	22.0	22.5	23.0	

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LTE Band 4					
Average Power (dBm)					
Modulation	BW (MHz)	RB size	MPR	Target Power	
QPSK	20	≤ 18	0	23.5	
QPSK	20	> 18	1	22.5	
16QAM	20	≤ 18	1	22.5	
16QAM	20	> 18	2	21.5	
QPSK	15	≤ 16	0	23.5	
QPSK	15	> 16	1	22.5	
16QAM	15	≤ 16	1	22.5	
16QAM	15	> 16	2	21.5	
QPSK	10	≤ 12	0	23.5	
QPSK	10	> 12	1	22.5	
16QAM	10	≤ 12	1	22.5	
16QAM	10	> 12	2	21.5	
QPSK	5	≤ 8	0	23.5	
QPSK	5	> 8	1	22.5	
16QAM	5	≤ 8	1	22.5	
16QAM	5	> 8	2	21.5	
QPSK	3	≤ 4	0	23.5	
QPSK	3	> 4	1	22.5	
16QAM	3	≤ 4	1	22.5	
16QAM	3	> 4	2	21.5	
QPSK	1.4	≤ 5	0	23.5	
QPSK	1.4	> 5	1	22.5	
16QAM	1.4	≤ 5	1	22.5	
16QAM	1.4	> 5	2	21.5	

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	LTE Band 7					
	Average Power (dBm)					
Modulation	BW (MHz)	RB size	MPR	Target Power		
QPSK	20	≤ 18	0	23.0		
QPSK	20	> 18	1	22.0		
16QAM	20	≤ 18	1	22.0		
16QAM	20	> 18	2	21.0		
QPSK	15	≤ 16	0	23.0		
QPSK	15	> 16	1	22.0		
16QAM	15	≤ 16	1	22.0		
16QAM	15	> 16	2	21.0		
QPSK	10	≤ 12	0	23.0		
QPSK	10	> 12	1	22.0		
16QAM	10	≤ 12	1	22.0		
16QAM	10	> 12	2	21.0		
QPSK	5	≤ 8	0	23.0		
QPSK	5	> 8	1	22.0		
16QAM	5	≤ 8	1	22.0		
16QAM	5	> 8	2	21.0		

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Mode		Maximum Average Power (dBm)	
		CH 1	9.5
	802.11b	CH 6	11.5
		CH 11	10.5
		CH 1	9.0
2.4GHz	802.11g	CH 6	11.0
		CH 11	9.5
		CH 1	9.0
	802.11n-HT20	CH 6	11.0
		CH 11	9.5
Bluetooth v3.0+EDR		9.0	
Bluetooth v4.0 LE		0	

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4.3 General LTE SAR Test and Reporting Considerations

Summarized r	nece	ssary items	address	ed in Kl	DB 941	225 D05	v02r03				
FCC ID	ΥHΙ	BLUSTMNL	TE								
Equipment Name	Sma	art phone									
Operating Frequency Range of each LTE transmission band		Band 4: 171 Band 7: 250									
Channel Bandwidth		MHz, 3MHz, Hz, 10MHz, 1					TE Band	4)			
uplink modulations used	QP	SK, and 16QAM									
LTE Voice / Data requirements	Dat	ata only									
		Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3 Modulation Channel bandwidth / Transmission bandwidth (RB) 1.4 3.0 5 10 15 20							MPR (dB)		
LTE MPR permanently built-in by			2000	7.7	_	100			1		
LTE MPR permanently built-in by design		OPSK	MHz	MHz	MHz	MHz	MHz	MHz	<1		
·	-	QPSK 16 QAM	2000	7.7	_	100			≤1 ≤1		
·			MHz >5	MHz > 4	MHz >8	MHz > 12	MHz > 16	MHz > 18			
·	In th	16 QAM 16 QAM ne base stati	MHz >5 ≤5 >5 on simula R during	MHz >4 ≤4 >4 SAR tes	MHz >8 ≤8 >8	MHz > 12 ≤ 12 > 12 > 12 n, Netwo	MHz > 16 ≤ 16 > 16 rk Setting	MHz > 18 ≤ 18 > 18 > value is	≤ 1		

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	Transmission (H, M, L) channel numbers and frequencies in each LTE band															
	LTE Band 4															
	Bandwidth 1.4 Bandwidth 3 MHz		th 3 MHz	Bandwidth 5 MHz		Bandwidth 10 MHz		MHz	Hz Bandwidth 15 M		Hz Bandwid		n 20 MHz			
	Ch. #	Fred (MH		Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)	Ch. #	Fre (Mł		Ch. #	Freq. (MHz)	Ch.	#	Freq. (MHz)
L	19957	1710).7	19965	1711.5	19975		1712.5	20000	17	15	20025	1717.5	200	50	1720
M	20175	1732	2.5	20175	1732.5	201	175	1732.5	20175	173	2.5	20175	1732.5	201	75	1732.5
Η	20393	1754	1.3	20385	1753.5	203	375	1752.5	20350	17	50	20325	1747.5	203	00	1745
								LTE Ba	and 7							
	Ban	dwidth	1 5 N	ЛHz	Band	dwidt	h 10	MHz	Bandwidth 15 MHz			MHz	Bandwidth 20 MHz			MHz
	Ch. #	ŧ	Fred	q. (MHz)	Ch. #		Fre	q. (MHz)	Ch. #		Fre	q. (MHz)	Ch. #	ŧ	Free	q. (MHz)
L	2077	5	2	502.5	20800) 25		2505	20825	5	2	2507.5	2085)		2510
M	21100)	:	2535	21100)		2535	21100)	2535		21100		:	2535
Н	2142	5	2	567.5	21400)		2565	21375	5	2	2562.5	21350	0		2560

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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.

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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.

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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)

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

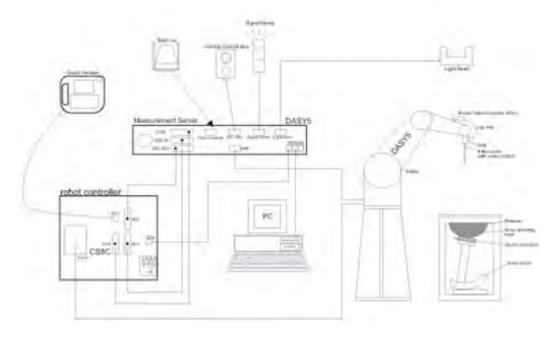
Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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7. System Description and Setup

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



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- 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,
- 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 D01v01r03 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 measurement plane orientation the measurement resolution is x or y dimension of the test of measurement point on the test	on, is smaller than the above, must be \leq the corresponding device with at least one

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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 D01v01r03 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz: } \le 3 \text{ mm}$ $4 - 5 \text{ GHz: } \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
	grid	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·Δz	Z _{Oom} (n-1)
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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

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 $\leq 1.4 \text{ W/kg}, \leq 8 \text{ mm}, \leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9. Test Equipment List

Manufacturer	Name of Environment	Turno/Mandal	Carial Number	Calib	ration	
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date	
SPEAG	835MHz System Validation Kit	D835V2	4d151	Mar. 25, 2013	Mar. 23, 2015	
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 27, 2013	Mar. 25, 2015	
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 27, 2013	Mar. 25, 2015	
SPEAG	2450MHz System Validation Kit D2450V2 908		Mar. 26, 2013	Mar. 24, 2015		
SPEAG	2600MHz System Validation Kit	D2600V2	1061	Nov. 19, 2014	Nov. 18, 2015	
SPEAG	Data Acquisition Electronics	DAE4	1358	Apr. 30, 2014	Apr. 29, 2015	
SPEAG	Dosimetric E-Field Probe	EX3DV4	3911	Oct. 02, 2014	Oct. 01, 2015	
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1753	NCR	NCR	
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1754	NCR	NCR	
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR	
Agilent	Wireless Communication Test Set	E5515C	MY52102600	Dec. 09, 2014	Dec. 08, 2015	
Anritus	Radio communication analyzer	MT8820C	6201091028	Dec. 09, 2014	Dec. 08, 2015	
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Dec. 09, 2014	Dec. 08, 2015	
Agilent	Dielectric Probe Kit	85070E	MY44300751	NCR	NCR	
Anritsu	Power Senor	MA2411B	917070	Jan. 23, 2015	Jan. 22, 2016	
Anritsu	Power Meter	ML2495A	1005002	Jan. 23, 2015	Jan. 22, 2016	
R&S	Spectrum Analyzer	FSP7	101045	Dec. 09, 2014	Dec. 08, 2015	
Agilent	Dual Directional Coupler	778D	50422	No	te1	
Woken	Attenuator 1	WK0602-XX	N/A	No	te1	
PE	Attenuator 2	PE7005-10	N/A	No	te1	
PE	Attenuator 3	PE7005- 3	N/A	No	te1	
AR	Power Amplifier	5S1G4M2	0328767	No	te1	
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	No	te1	
Mini-Circuits	Power Amplifier	ZHL-42W+	13440021344	No	te1	

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General Note:

- 1. 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.
- 2. Referring to KDB 865664 D01v01r03, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- 3. The justification data of dipole D835V2, SN: 4d151, D1750V2, SN: 1090, D1900V2, SN: 5d170, D2450V2, SN: 908 can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

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 (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)					
	For Head												
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									
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>

<1133uc 1	7.0.00		lameter on	OUR ROOM						
Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	Head	22.3	0.912	41.560	0.90	41.50	1.33	0.14	±5	Feb. 11, 2015
1750	Head	22.3	1.395	40.742	1.37	40.10	1.82	1.60	±5	Feb. 09, 2015
1900	Head	22.5	1.456	40.840	1.40	40.00	4.00	2.10	±5	Feb. 09, 2015
2450	Head	22.6	1.845	37.668	1.80	39.20	2.50	-3.91	±5	Mar. 02, 2015
2600	Head	22.3	2.053	37.984	1.96	39.00	4.74	-2.61	±5	Feb. 09, 2015
835	Body	22.5	0.952	56.789	0.97	55.20	-1.86	2.88	±5	Feb. 10, 2015
1750	Body	22.6	1.529	54.187	1.49	53.40	2.62	1.47	±5	Feb. 08, 2015
1900	Body	22.5	1.534	55.327	1.52	53.30	0.92	3.80	±5	Feb. 08, 2015
2450	Body	22.4	1.949	53.894	1.95	52.70	-0.05	2.27	±5	Mar. 02, 2015
2600	Body	22.5	2.165	53.823	2.16	52.50	0.23	2.52	±5	Feb. 08, 2015

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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)	Deviation (%)
Feb. 11, 2015	835	Head	250	4d151	3911	1358	2.19	9.49	8.76	-7.69
Feb. 09, 2015	1750	Head	250	1090	3911	1358	8.58	36.90	34.32	-6.99
Feb. 09, 2015	1900	Head	250	5d170	3911	1358	10.20	40.20	40.8	1.49
Mar. 02, 2015	2450	Head	250	908	3911	1358	13.60	54.00	54.4	0.74
Feb. 09, 2015	2600	Head	250	1061	3911	1358	15.50	56.90	62	8.96
Feb. 10, 2015	835	Body	250	4d151	3911	1358	2.40	9.43	9.6	1.80
Feb. 08, 2015	1750	Body	250	1090	3911	1358	9.35	38.10	37.4	-1.84
Feb. 08, 2015	1900	Body	250	5d170	3911	1358	9.84	41.20	39.36	-4.47
Mar. 02, 2015	2450	Body	250	908	3911	1358	13.30	50.40	53.2	5.56
Feb. 08, 2015	2600	Body	250	1061	3911	1358	14.20	54.90	56.8	3.46

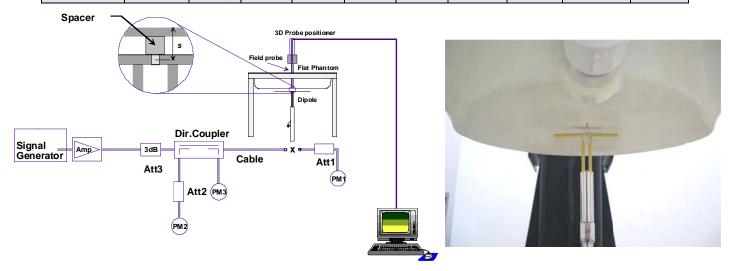


Fig 8.3.1 System Performance Check Setup

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

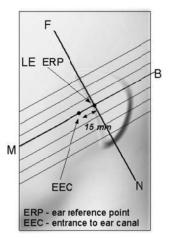
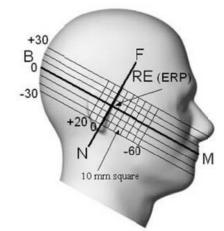


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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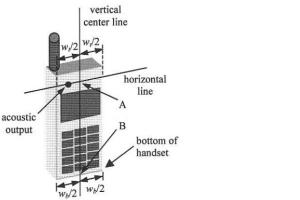
Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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11.2 Definition of the cheek 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. 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.

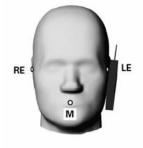


horizontal line

A acoustic output bottom of handset $w_b/2$ $w_b/2$

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

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







vertical

center line

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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°.
- 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

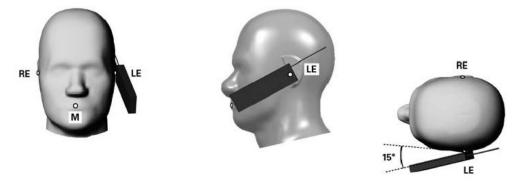


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 KDB 648474 D04v01r02, 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 D01v05r02 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.

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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.

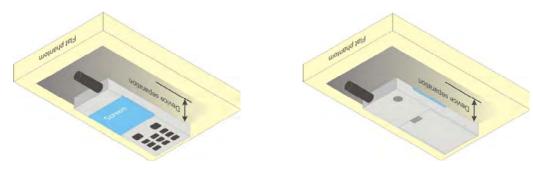


Fig 9.4 Body Worn Position

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 HDB Publication 941225 D06 v02 where SAR test considerations for handsets (L \times W \ge 9 cm \times 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 D01v05r02 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.

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12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

Per KDB 447498 D01v05r02, the maximum output power channel is used for SAR testing and for further SAR test 1. reduction.

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- 2. Per KDB 941225 D01v03, 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 were set in GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900.
- 3. Per KDB 941225 D01v03, 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 were set in GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900.

SIM 1:

Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
128	189	251	Limit	128	189	251	Limit
824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
33.18	33.15	<mark>33.53</mark>	34.0	24.18	24.15	24.53	25.0
33.14	33.13	33.52	34.0	24.14	24.13	24.52	25.0
30.06	29.97	30.25	30.5	24.06	23.97	24.25	24.5
29.00	28.94	29.24	29.5	24.74	24.68	24.98	25.24
27.68	28.24	28.41	29.0	24.68	25.24	25.41	26.0
26.57	26.99	27.36	27.5	17.57	17.99	18.36	18.5
25.92	26.38	26.73	27.0	19.92	20.38	20.73	21.0
24.73	25.11	25.59	26.0	20.47	20.85	21.33	21.74
23.45	23.91	24.33	24.5	20.45	20.91	21.33	21.5
Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
512	661	810	Limit	512	661	810	Limit
1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
30.40	29.96	30.19	30.5	21.40	20.96	21.19	21.5
30.35	29.90	30.17	30.5	21.35	20.90	21.17	21.5
27.64	27.24	27.63	28.0	21.64	21.24	21.63	22.0
26.32	25.88	26.25	27.0	<mark>22.06</mark>	21.62	21.99	22.74
		04.00					5
24.84	24.61	24.98	25.5	21.84	21.61	21.98	22.5
24.84 24.86	24.61 24.56	24.98	25.5 25.0	21.84 15.86	21.61 15.56	21.98 15.88	16.0
24.86	24.56	24.88	25.0	15.86	15.56	15.88	16.0
	128 824.2 33.18 33.14 30.06 29.00 27.68 26.57 25.92 24.73 23.45 Burst Ave 512 1850.2 30.40 30.35 27.64 26.32	128 189 824.2 836.4 33.18 33.15 33.14 33.13 30.06 29.97 29.00 28.94 27.68 28.24 26.57 26.99 25.92 26.38 24.73 25.11 23.45 23.91 Burst Average Pow 512 661 1850.2 1880 30.40 29.96 30.35 29.90 27.64 27.24 26.32 25.88	128 189 251 824.2 836.4 848.8 33.18 33.15 33.53 33.14 33.13 33.52 30.06 29.97 30.25 29.00 28.94 29.24 27.68 28.24 28.41 26.57 26.99 27.36 25.92 26.38 26.73 24.73 25.11 25.59 23.45 23.91 24.33 Burst Average Power (dBm) 512 661 810 1850.2 1880 1909.8 30.40 29.96 30.19 30.35 29.90 30.17 27.64 27.24 27.63 26.32 25.88 26.25	128 189 251 Limit (dBm) 824.2 836.4 848.8 (dBm) 33.18 33.15 33.53 34.0 30.06 29.97 30.25 30.5 29.00 28.94 29.24 29.5 27.68 28.24 28.41 29.0 26.57 26.99 27.36 27.5 25.92 26.38 26.73 27.0 24.73 25.11 25.59 26.0 23.45 23.91 24.33 24.5 Burst Average Power (dBm) Tune-up Limit (dBm) 1850.2 1880 1909.8 (dBm) 30.340 29.96 30.19 30.5 30.35 29.90 30.17 30.5 27.64 27.24 27.63 28.0 26.32 25.88 26.25 27.0	128 189 251 Limit (dBm) 128 824.2 836.4 848.8 (dBm) 824.2 33.18 33.15 33.53 34.0 24.18 33.14 33.13 33.52 34.0 24.14 30.06 29.97 30.25 30.5 24.06 29.00 28.94 29.24 29.5 24.74 27.68 28.24 28.41 29.0 24.68 26.57 26.99 27.36 27.5 17.57 25.92 26.38 26.73 27.0 19.92 24.73 25.11 25.59 26.0 20.47 23.45 23.91 24.33 24.5 20.45 Burst Average Power (dBm) Tune-up Frame-Av 512 661 810 Limit 512 1850.2 1880 1909.8 (dBm) 1850.2 21.40 30.35 29.90 30.17 30.5 21.40 30.35 29.90 30.17	128 189 251 Limit (dBm) 128 189 824.2 836.4 848.8 (dBm) 824.2 836.4 33.18 33.15 33.53 34.0 24.18 24.15 33.14 33.13 33.52 34.0 24.14 24.13 30.06 29.97 30.25 30.5 24.06 23.97 29.00 28.94 29.24 29.5 24.74 24.68 27.68 28.24 28.41 29.0 24.68 25.24 26.57 26.99 27.36 27.5 17.57 17.99 25.92 26.38 26.73 27.0 19.92 20.38 24.73 25.11 25.59 26.0 20.47 20.85 23.45 23.91 24.33 24.5 20.45 20.91 Burst Average Power (dBm) 1mit 512 661 661 661 661 1850.2 1880 30.40 29.96 30.19 30.5<	128 189 251 Limit (dBm) 128 189 251 824.2 836.4 848.8 (dBm) 824.2 836.4 848.8 33.18 33.15 33.53 34.0 24.18 24.15 24.53 33.14 33.13 33.52 34.0 24.14 24.13 24.52 30.06 29.97 30.25 30.5 24.06 23.97 24.25 29.00 28.94 29.24 29.5 24.74 24.68 24.98 27.68 28.24 28.41 29.0 24.68 25.24 25.41 26.57 26.99 27.36 27.5 17.57 17.99 18.36 25.92 26.38 26.73 27.0 19.92 20.38 20.73 24.73 25.11 25.59 26.0 20.47 20.85 21.33 23.45 23.91 24.33 24.5 20.45 20.91 21.33 Burst Average Power (dBm) 512

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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SIM 2:

SIIVI Z:								
Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	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)	33.16	33.15	<mark>33.52</mark>	24.0	24.16	24.15	24.52	25.0
GPRS (GMSK, 1 Tx slot) – CS1	33.13	33.12	33.50	34.0	24.13	24.12	24.50	25.0
GPRS (GMSK, 2 Tx slots) – CS1	30.04	29.95	30.23	30.5	24.04	23.95	24.23	24.5
GPRS (GMSK, 3 Tx slots) – CS1	29.00	28.92	29.22	29.5	24.74	24.66	24.96	25.24
GPRS (GMSK, 4 Tx slots) – CS1	27.66	28.23	28.40	29.0	24.66	25.23	25.40	26.0
EDGE (8PSK, 1 Tx slot) – MCS5	26.56	26.99	27.35	27.5	17.56	17.99	18.35	18.5
EDGE (8PSK, 2 Tx slots) – MCS5	25.91	26.37	26.73	27.0	19.91	20.37	20.73	21.0
EDGE (8PSK, 3 Tx slots) – MCS5	24.72	25.10	25.56	26.0	20.46	20.84	21.30	21.74
EDGE (8PSK, 4 Tx slots) – MCS5	23.43	23.90	24.31	24.5	20.43	20.90	21.31	21.5
Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM (GMSK, 1 Tx slot)	<mark>30.38</mark>	29.95	30.17	30.5	21.38	20.95	21.17	21.5
GPRS (GMSK, 1 Tx slot) – CS1	30.34	29.90	30.16	30.5	21.34	20.90	21.16	21.5
GPRS (GMSK, 2 Tx slots) – CS1	27.62	27.23	27.62	28.0	21.62	21.23	21.62	22.0
GPRS (GMSK, 3 Tx slots) – CS1	26.30	25.86	26.24	27.0	22.04	21.60	21.98	22.74
GPRS (GMSK, 4 Tx slots) – CS1	24.83	24.60	24.97	25.5	21.83	21.60	21.97	22.5
EDGE (8PSK, 1 Tx slot) – MCS5	24.85	24.55	24.84	25.0	15.85	15.55	15.84	16.0
EDGE (8PSK, 2 Tx slots) – MCS5	24.14	23.96	24.16	24.5	18.14	17.96	18.16	18.5
EDGE (ODGK O Translate) MOGE	23.03	22.72	23.07	23.5	18.77	18.46	18.81	19.24
EDGE (8PSK, 3 Tx slots) – MCS5	23.03	22.12	20.01	20.0	10.77	10.70	10.01	10.21

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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 (1 Tx Slots) - 6 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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- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01 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:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements. b.
- A call was established between EUT and Base Station with following setting:
 - Set Gain Factors (β_c and β_d) and parameters were set according to each
 - Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121 ii.
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -86 dBm
 - 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
 - Set CQI Repetition Factor to 2 х.
 - Power Ctrl Mode = All Up bits

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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	βd (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: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{ls} = 30/15 * \beta_c$.
- For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Note 2: Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, $\Delta_{\rm ACK}$ and $\Delta_{\rm NACK}$ = 30/15 with β_{hs} = 30/15 * β_c , and $\Delta_{\rm CQI}$ = 24/15 with $\beta_{hs} = 24/15 * \beta_c$.
- CM = 1 for β_o/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HS-Note 3: 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_d/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 Bc = 11/15 and Bd = 15/15

Setup Configuration

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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 β_0/β_d =12/15, β_{1s}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
- Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- Note 4: For subtest 5 the β_0/β_0 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

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<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03, 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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2. Per KDB 941225 D01v03, 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.

SIM 1:

	В	and		WCDMA	Band V			WCDMA	Band II	
	Tx C	hannel	4132	4182	4233	Tune-up	9262	9400	9538	Tune-up
	Rx C	4357	4407	4458	Limit	9662	9800	9938	Limit	
	Frequer	ncy (MHz)	826.4	836.4	846.6	(dBm)	1852.4	1880	1907.6	(dBm)
MPR	3GPP Rel 99	AMR 12.2Kbps	22.86	22.88	22.84	23.5	23.20	22.91	23.30	23.5
(dB)	3GPP Rel 99	RMC 12.2Kbps	22.87	<mark>22.89</mark>	22.86	23.5	23.22	22.92	23.31	23.5
0	3GPP Rel 6	HSDPA Subtest-1	21.68	21.71	21.82	22.0	21.72	21.54	21.95	22.5
0	3GPP Rel 6	HSDPA Subtest-2	21.83	21.71	21.81	22.0	21.79	21.50	21.96	22.5
0.5	3GPP Rel 6	HSDPA Subtest-3	21.26	21.31	21.29	21.5	21.34	21.07	21.44	22.0
0.5	3GPP Rel 6	HSDPA Subtest-4	21.31	21.29	21.28	21.5	21.33	20.76	21.43	22.0
0	3GPP Rel 6	HSUPA Subtest-1	21.88	21.13	21.07	22.0	21.29	21.42	21.28	22.0
2	3GPP Rel 6	HSUPA Subtest-2	20.53	20.73	20.41	21.0	20.77	20.72	20.68	21.0
1	3GPP Rel 6	HSUPA Subtest-3	20.40	20.51	20.29	21.0	20.42	20.41	20.51	21.0
2	3GPP Rel 6	HSUPA Subtest-4	20.76	20.68	20.77	21.0	20.57	20.86	21.11	21.5
0	3GPP Rel 6	HSUPA Subtest-5	21.80	21.80	21.80	22.0	21.90	21.60	22.00	22.5

	В	and		WCDMA Band I	V	
	Tx C	hannel	1312	1413	1513	Tune-up
	Rx C	hannel	1537	1638	1738	Limit
	Freque	ncy (MHz)	1712.4	1732.6	1752.6	(dBm)
MPR	3GPP Rel 99	AMR 12.2Kbps	23.80	23.66	24.20	24.5
(dB)	3GPP Rel 99	RMC 12.2Kbps	23.81	23.68	<mark>24.21</mark>	24.5
0	3GPP Rel 6	HSDPA Subtest-1	22.36	22.30	22.71	23.0
0	3GPP Rel 6	HSDPA Subtest-2	22.35	22.31	22.82	23.0
0.5	3GPP Rel 6	HSDPA Subtest-3	21.82	21.78	22.28	22.5
0.5	3GPP Rel 6	HSDPA Subtest-4	21.81	21.78	22.26	22.5
0	3GPP Rel 6	HSUPA Subtest-1	22.31	21.98	22.27	22.5
2	3GPP Rel 6	HSUPA Subtest-2	20.94	21.44	21.56	22.0
1	3GPP Rel 6	HSUPA Subtest-3	20.92	20.96	21.31	21.5
2	3GPP Rel 6	HSUPA Subtest-4	21.25	21.59	22.00	22.5
0	3GPP Rel 6	HSUPA Subtest-5	22.40	22.30	22.90	23.0

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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 D05v02r03, 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 D05v02r03, 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 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r03, 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 D05v02r03, 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 D05v02r03, 16QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r03, 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 D05v02r03, smaller bandwidth SAR testing is not required.

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<LTE Band 4>

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BW		RB	RB	Power	Power	Power		
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR
[1411.12]			Onoot	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)
	Cha			20050	20175	20300	(dBm)	(uD)
	Frequen	cy (MHz)		1720	1732.5	1745		
20	QPSK	1	0	22.60	22.52	22.68		
20	QPSK	1	49	22.65	22.62	<mark>22.78</mark>	23.5	0
20	QPSK	1	99	22.57	22.56	22.56		
20	QPSK	50	0	21.37	21.60	21.55		
20	QPSK	50	24	21.41	21.62	21.75	20.5	0.4
20	QPSK	50	49	21.38	21.50	21.73	22.5	0-1
20	QPSK	100	0	21.35	21.65	21.68		
20	16QAM	1	0	21.49	21.62	21.87		
20	16QAM	1	49	21.32	21.51	22.00	22.5	0-1
20	16QAM	1	99	21.33	21.63	21.74		
20	16QAM	50	0	20.56	20.66	20.52		
20	16QAM	50	24	20.42	20.54	20.74		
20	16QAM	50	49	20.55	20.50	20.86	21.5	0-2
20	16QAM	100	0	20.43	20.61	20.68		
20	Cha		U	20025	20175	20325	Tune up	
							Limit	MPR
	Frequen	cy (MHz)		1717.5	1732.5	1747.5	(dBm)	(dB)
15	QPSK	1	0	22.46	22.60	22.71		
15	QPSK	1	37	22.37	22.56	22.73	23.5	0
15	QPSK	1	74	22.48	22.58	22.54		-
15	QPSK	36	0	21.54	21.67	21.70		
15	QPSK	36	18	21.43	21.60	21.73		
15	QPSK	36	37	21.40	21.56	21.83	22.5	0-1
15	QPSK	75	0	21.44	21.61	21.80		
15	16QAM	1	0	22.22	22.06	21.93		
15	16QAM	1	37	21.67	21.91	21.92	22.5	0-1
15	16QAM	1	74	21.72	21.88	22.08	22.0	0-1
15	16QAM	36	0	20.54	20.58	20.73		
15	16QAM	36	18					
				20.49	20.53	20.73	21.5	0-2
15	16QAM	36 75	37 0	20.37	20.50	20.79		
15	16QAM	75	U	20.52	20.53	20.75	Tune up	
	Cha	nnei		20000	20175	20350	Tune up Limit	MPR
	Frequen	cy (MHz)		1715	1732.5	1750	(dBm)	(dB)
10	QPSK	1	0	22.58	22.60	22.70		
10	QPSK	1	24	22.42	22.51	22.71	23.5	0
10	QPSK	1	49	22.26	22.52	22.68		
10	QPSK	25	0	21.50	21.58	21.84		
10	QPSK	25	12	21.52	21.51	21.77		
10	QPSK	25	24	21.46	21.53	21.85	22.5	0-1
10	QPSK	50	0	21.40	21.60	21.79		
10	16QAM	1	0	21.43	21.45	21.73		
10	16QAM	1	24	21.43	21.43	21.79	22.5	0-1
10	16QAM	1	49	21.13	21.35	21.79	22.0	0 1
10	16QAM	25	0	20.62	20.70	20.76		
10	16QAM	25	12	20.62	20.70	20.76		
		25 25					21.5	0-2
10	16QAM		24	20.53	20.48	20.91		
10	16QAM	50	0	20.45	20.51	20.70		

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	Cha	nnel		19975	20175	20375	Tune up	MPR
	Frequenc	cy (MHz)		1712.5	1732.5	1752.5	Limit (dBm)	(dB)
5	QPSK	1	0	22.46	22.55	22.62	(aBiii)	
5	QPSK	1	12	22.45	22.48	22.72	23.5	0
5	QPSK	1	24	22.41	22.49	22.62		-
5	QPSK	12	0	21.55	21.62	21.87		
5	QPSK	12	6	21.47	21.67	22.01		
5	QPSK	12	11	21.50	21.64	21.99	22.5	0-1
5	QPSK	25	0	21.54	21.56	21.95		
5	16QAM	1	0	21.30	21.31	21.98		
5	16QAM	1	12	21.13	21.29	22.15	22.5	0-1
5	16QAM	1	24	21.22	21.25	21.81		.
5	16QAM	12	0	20.66	20.62	20.94		
5	16QAM	12	6	20.71	20.68	20.89		
5	16QAM	12	11	20.64	20.64	20.91	21.5	0-2
5	16QAM	25	0	20.55	20.52	20.90		
	Cha			19965	20175	20385	Tune up	MDD
	Frequenc			1711.5	1732.5	1753.5	Limit (dBm)	MPR (dB)
3	QPSK	1	0	22.61	22.55	22.73	(9.2)	
3	QPSK	1	7	22.56	22.52	22.61	23.5	0
3	QPSK	1	14	22.51	22.48	22.64		-
3	QPSK	8	0	21.63	21.58	21.90		
3	QPSK	8	4	21.58	21.64	21.99		
3	QPSK	8	7	21.59	21.59	21.93	22.5	0-1
3	QPSK	15	0	21.50	21.58	21.92		
3	16QAM	1	0	21.70	21.92	22.39		
3	16QAM	1	7	21.72	21.84	22.47	22.5	0-1
3	16QAM	1	14	21.38	21.83	22.29		
3	16QAM	8	0	20.76	20.50	20.89		
3	16QAM	8	4	20.65	20.59	20.94		
3	16QAM	8	7	20.66	20.54	20.89	21.5	0-2
3	16QAM	15	0	20.61	20.56	20.88		
	Cha	nnel		19957	20175	20393	Tune up	MDD
	Frequenc	cy (MHz)		1710.7	1732.5	1754.3	Limit (dBm)	MPR (dB)
1.4	QPSK	1	0	22.42	22.47	22.71		
1.4	QPSK	1	2	22.56	22.59	22.69		
1.4	QPSK	1	5	22.56	22.58	22.75	22.5	0
1.4	QPSK	3	0	22.54	22.57	22.73	23.5	0
1.4	QPSK	3	1	22.43	22.53	22.74		
1.4	QPSK	3	2	22.60	22.52	22.72		
1.4	QPSK	6	0	21.65	21.60	21.81	22.5	0-1
1.4	16QAM	1	0	21.64	21.65	22.11		
1.4	16QAM	1	2	21.70	21.70	22.15		
1.4	16QAM	1	5	21.69	21.59	22.07	20.5	0.4
1.4	16QAM	3	0	21.52	21.56	21.89	22.5	0-1
1.4	16QAM	3	1	21.44	21.51	21.93		
1.4	16QAM	3	2	21.52	21.50	21.93		
1.4	16QAM	6	0	20.72	20.65	20.89	21.5	0-2

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<LTE Band 7>

	<u> </u>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune up Limit	MPR
	Cha	nnel		20850	21100	21350	(dBm)	(dB)
	Frequen	cy (MHz)		2510	2535	2560	, ,	
20	QPSK	1	0	22.05	22.13	22.24		
20	QPSK	1	49	22.11	22.26	22.12	23.0	0
20	QPSK	1	99	22.34	<mark>22.46</mark>	22.39		
20	QPSK	50	0	21.07	21.28	21.32		
20	QPSK	50	24	21.00	21.35	21.23	22.0	0.4
20	QPSK	50	49	21.08	21.39	21.35	22.0	0-1
20	QPSK	100	0	21.02	21.42	21.40		
20	16QAM	1	0	20.85	21.28	21.31		
20	16QAM	1	49	20.84	21.08	21.00	22.0	0-1
20	16QAM	1	99	20.81	21.33	21.12		
20	16QAM	50	0	20.35	20.49	20.46		
20	16QAM	50	24	20.25	20.57	20.35	21.0	0.0
20	16QAM	50	49	20.18	20.53	20.27	21.0	0-2
20	16QAM	100	0	20.13	20.48	20.29		
	Cha	nnel		20825	21100	21375	Tune up	MPR
	Frequen	cy (MHz)		2507.5	2535	2562.5	Limit (dBm)	(dB)
15	QPSK	1	0	21.99	22.05	22.36		
15	QPSK	1	37	21.94	22.30	22.15	23.0	0
15	QPSK	1	74	21.98	22.43	22.11		
15	QPSK	36	0	21.15	21.29	21.37		
15	QPSK	36	18	21.06	21.37	21.43	22.0	0-1
15	QPSK	36	37	21.03	21.29	21.36	22.0	0-1
15	QPSK	75	0	20.93	21.23	21.36		
15	16QAM	1	0	21.02	21.02	21.21		
15	16QAM	1	37	20.98	21.24	21.05	22.0	0-1
15	16QAM	1	74	20.90	21.40	21.22		
15	16QAM	36	0	20.09	20.68	20.60		
15	16QAM	36	18	20.27	20.47	20.34	21.0	0-2
15	16QAM	36	37	20.19	20.53	20.37	21.0	0-2
15	16QAM	75	0	20.12	20.48	20.49		

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	Cha	nnel		20800	21100	21400	Tune up	MPR
	Frequenc	cy (MHz)		2505	2535	2565	Limit (dBm)	(dB)
10	QPSK	1	0	21.98	22.20	22.11		
10	QPSK	1	24	21.77	22.32	22.21	23.0	0
10	QPSK	1	49	21.87	22.36	22.22		
10	QPSK	25	0	21.05	21.30	21.39		
10	QPSK	25	12	20.95	21.46	21.36	22.0	0-1
10	QPSK	25	24	21.01	21.47	21.32	22.0	0-1
10	QPSK	50	0	20.98	21.28	21.38		
10	16QAM	1	0	20.63	21.16	21.10		
10	16QAM	1	24	20.49	21.26	20.94	22.0	0-1
10	16QAM	1	49	20.58	21.44	21.37		
10	16QAM	25	0	20.09	20.47	20.43		
10	16QAM	25	12	19.90	20.47	20.47	21.0	0-2
10	16QAM	25	24	20.01	20.50	20.23	21.0	0-2
10	16QAM	50	0	20.14	20.35	20.26		
	Cha	nnel		20775	21100	21425	Tune up	MPR
	Frequenc	cy (MHz)		2502.5	2535	2567.5	Limit (dBm)	(dB)
5	QPSK	1	0	21.97	22.21	22.01		
5	QPSK	1	12	21.84	22.26	22.02	23.0	0
5	QPSK	1	24	21.83	22.38	22.25		
5	QPSK	12	0	21.00	21.36	21.29		
5	QPSK	12	6	20.95	21.40	21.27	22.0	0-1
5	QPSK	12	11	20.82	21.37	21.28	22.0	0-1
5	QPSK	25	0	20.85	21.38	21.24		
5	16QAM	1	0	21.06	21.45	21.43		
5	16QAM	1	12	20.81	21.49	21.40	22.0	0-1
5	16QAM	1	24	21.19	21.65	21.18		
5	16QAM	12	0	20.08	20.54	20.37		
5	16QAM	12	6	20.10	20.54	20.38	21.0	0-2
5	16QAM	12	11	20.04	20.61	20.35	21.0	0-2
5	16QAM	25	0	20.07	20.47	20.26		

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< WLAN Conducted Power>

General Note:

For 2.4GHz WLAN SAR testing, highest average RF output power channel for the lowest data rate for 802.11b were selected for SAR evaluation. 802.11g/n HT20 were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of 802.11b mode.

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<WLAN 2.4GHz>

	WLAN 2.4GHz 802.11b Average Power (dBm)								
Pov	wer vs. Chai	nnel	Power vs. Data Rate						
Channel	Frequency (MHz)	Data Rate 1Mbps	Channel	2Mbps	5.5Mbps	11Mbps	Limit (dBm)		
CH 01	2412	9.33					9.5		
CH 06	2437	<mark>11.23</mark>	CH 06	11.21	11.16	11.21	11.5		
CH 11	2462	10.06					10.5		

		W	LAN 2.4G	Hz 802.1	1g Averaç	ge Power	(dBm)				Tune up
Po	Power vs. Channel			Power vs. Data Rate							
Channel	Frequency	Data Rate	Channal	9Mbps	12Mbps	10Mbpa	24Mbpa	26Mbpc	10Mbpa	E4Mbpa	Limit (dBm)
Charmer	(MHz)	6Mbps	Chamer	alvibha	12MDb2	Tolvibps	24WDps	Squivibes	401VIDPS	54IVIDPS	(dbiii)
CH 01	2412	8.62									9.0
CH 06	2437	<mark>10.64</mark>	CH 06	10.41	10.42	10.41	10.51	10.51	10.48	10.54	11.0
CH 11	2462	9.15									9.5

	WLAN 2.4GHz 802.11n HT20 Average Power (dBm)										
Power vs. Channel			Power vs. MCS Index								Tune up
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	Limit (dBm)
CH 01	2412	8.66									9.0
CH 06	2437	<mark>10.58</mark>	CH 06	10.53	10.50	10.51	10.54	10.48	10.50	10.51	11.0
CH 11	2462	8.93									9.5

13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)						
Mode Dand	Bluetooth v3.0+EDR	Bluetooth v4.0 LE					
2.4GHz Bluetooth	9.0	0					

Note:

1. Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

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

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

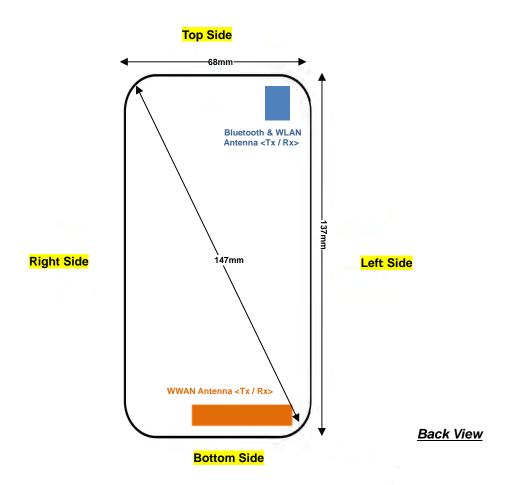
Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds	
9.0	< 5	2.48	2.5	

Note:

Per KDB 447498 D01v05r02, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.5 which is <= 3, SAR testing is not required.

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14. Antenna Location



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Distance of the Antenna to the EUT surface/edge								
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side		
WWAN Main	≤ 25mm	≤ 25mm	122mm	≤ 25mm	≤ 25mm	≤ 25mm		
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	115mm	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	Yes	Yes		
BT&WLAN	Yes	Yes	Yes	No	No	Yes		

General Note:

Referring to KDB 941225 D06 v01r01, when the overall device length and width are \geq 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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15. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v05r02, 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: 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 D01v05r02, 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
 - · ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB 941225 D01v03, 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 were set in GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900.
- 4. Per KDB 941225 D01v03, 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 were set in GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900.
- 5. Per KDB 648474 D04v01r02, 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.
- Per KDB 941225 D01v03, SAR for next to the ear head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 7. Per KDB 941225 D01v03, 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.
- 8. Per KDB 941225 D05v02r03, 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.
- 9. Per KDB 941225 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 10. Per KDB 941225 D05v02r03, 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.
- 11. Per KDB 941225 D05v02r03, 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 D05v02r03, 16QAM SAR testing is not required.
- 12. Per KDB 941225 D05v02r03, 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 D05v02r03, smaller bandwidth SAR testing is not required.
- 13. This device 2.4GHz WLAN supports Hotspot operation.
- 14. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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15.1 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)
#01	GSM850	GPRS (GMSK 4 Tx slots)	Right Cheek	251	848.8	28.41	29.00	1.146	0.02	0.380	0.435
	GSM850	GPRS (GMSK 4 Tx slots)	Right Tilted	251	848.8	28.41	29.00	1.146	0.07	0.296	0.339
	GSM850	GPRS (GMSK 4 Tx slots)	Left Cheek	251	848.8	28.41	29.00	1.146	0.04	0.356	0.408
	GSM850	GPRS (GMSK 4 Tx slots)	Left Tilted	251	848.8	28.41	29.00	1.146	0.15	0.291	0.333
	GSM1900	GPRS (GMSK 3 Tx slots)	Right Cheek	512	1850.2	26.32	27.00	1.169	0.15	0.270	0.316
	GSM1900	GPRS (GMSK 3 Tx slots)	Right Tilted	512	1850.2	26.32	27.00	1.169	0.01	0.118	0.138
#02	GSM1900	GPRS (GMSK 3 Tx slots)	Left Cheek	512	1850.2	26.32	27.00	1.169	0.03	0.306	<mark>0.358</mark>
	GSM1900	GPRS (GMSK 3 Tx slots)	Left Tilted	512	1850.2	26.32	27.00	1.169	0.19	0.110	0.129

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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)
#03	WCDMA Band V	RMC 12.2K	Right Cheek	4182	836.4	22.89	23.50	1.151	0.09	0.446	<mark>0.513</mark>
	WCDMA Band V	RMC 12.2K	Right Tilted	4182	836.4	22.89	23.50	1.151	0.05	0.357	0.411
	WCDMA Band V	RMC 12.2K	Left Cheek	4182	836.4	22.89	23.50	1.151	0.12	0.427	0.491
	WCDMA Band V	RMC 12.2K	Left Tilted	4182	836.4	22.89	23.50	1.151	0.06	0.376	0.433
#04	WCDMA Band IV	RMC 12.2K	Right Cheek	1513	1752.6	24.21	24.50	1.069	-0.03	0.370	<mark>0.396</mark>
	WCDMA Band IV	RMC 12.2K	Right Tilted	1513	1752.6	24.21	24.50	1.069	-0.03	0.119	0.127
	WCDMA Band IV	RMC 12.2K	Left Cheek	1513	1752.6	24.21	24.50	1.069	0.17	0.362	0.387
	WCDMA Band IV	RMC 12.2K	Left Tilted	1513	1752.6	24.21	24.50	1.069	0.04	0.114	0.122
	WCDMA Band II	RMC 12.2K	Right Cheek	9538	1907.6	23.31	23.50	1.045	0.17	0.408	0.426
	WCDMA Band II	RMC 12.2K	Right Tilted	9538	1907.6	23.31	23.50	1.045	0.07	0.179	0.187
#05	WCDMA Band II	RMC 12.2K	Left Cheek	9538	1907.6	23.31	23.50	1.045	0.01	0.581	<mark>0.607</mark>
	WCDMA Band II	RMC 12.2K	Left Tilted	9538	1907.6	23.31	23.50	1.045	0.09	0.175	0.183

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<LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offest	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)
	LTE Band 4	20M	1	49	QPSK	Right Cheek	20300	1745	22.78	23.50	1.180	0.18	0.276	0.326
	LTE Band 4	20M	1	49	QPSK	Right Tilted	20300	1745	22.78	23.50	1.180	-0.05	0.121	0.143
	LTE Band 4	20M	1	49	QPSK	Left Cheek	20300	1745	22.78	23.50	1.180	0.07	0.310	0.366
	LTE Band 4	20M	1	49	QPSK	Left Tilted	20300	1745	22.78	23.50	1.180	0.05	0.097	0.114
	LTE Band 4	20M	50	24	QPSK	Right Cheek	20300	1745	21.75	22.50	1.189	0.17	0.281	0.334
	LTE Band 4	20M	50	24	QPSK	Right Tilted	20300	1745	21.75	22.50	1.189	0.13	0.119	0.141
#06	LTE Band 4	20M	50	24	QPSK	Left Cheek	20300	1745	21.75	22.50	1.189	0.05	0.316	<mark>0.376</mark>
	LTE Band 4	20M	50	24	QPSK	Left Tilted	20300	1745	21.75	22.50	1.189	0.03	0.101	0.120
	LTE Band 7	20M	1	99	QPSK	Right Cheek	21100	2535	22.46	23.00	1.132	0.05	0.389	0.441
	LTE Band 7	20M	1	99	QPSK	Right Tilted	21100	2535	22.46	23.00	1.132	-0.16	0.132	0.149
#07	LTE Band 7	20M	1	99	QPSK	Left Cheek	21100	2535	22.46	23.00	1.132	-0.04	0.481	<mark>0.545</mark>
	LTE Band 7	20M	1	99	QPSK	Left Tilted	21100	2535	22.46	23.00	1.132	0.03	0.100	0.113
	LTE Band 7	20M	50	49	QPSK	Right Cheek	21100	2535	21.39	22.00	1.151	0.02	0.301	0.346
	LTE Band 7	20M	50	49	QPSK	Right Tilted	21100	2535	21.39	22.00	1.151	-0.01	0.097	0.112
	LTE Band 7	20M	50	49	QPSK	Left Cheek	21100	2535	21.39	22.00	1.151	0.01	0.380	0.437
	LTE Band 7	20M	50	49	QPSK	Left Tilted	21100	2535	21.39	22.00	1.151	0.07	0.059	0.068

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<DTS 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	Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
#08	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	6	2437	11.23	11.50	1.064	97.85	1.022	0.14	0.193	0.210
	WLAN 2.4GHz	802.11b 1Mbps	Right Tilted	6	2437	11.23	11.50	1.064	97.85	1.022	0.02	0.104	0.113
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	6	2437	11.23	11.50	1.064	97.85	1.022	-0.01	0.078	0.085
	WLAN 2.4GHz	802.11b 1Mbps	Left Tilted	6	2437	11.23	11.50	1.064	97.85	1.022	0.09	0.055	0.060

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15.2 Hotspot SAR

	Distance	of the Antenna	to the EUT surf	face/edge									
Antennas Back Front Top Side Bottom Side Right Side Left Side													
WWAN Main	≤ 25mm	≤ 25mm	122mm	≤ 25mm	≤ 25mm	≤ 25mm							
BT&WLAN ≤ 25mm ≤ 25mm 115mm 55mm ≤ 25mm													

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	Pos	itions for SAR t	ests; Hotspot m	ode									
Antennas Back Front Top Side Bottom Side Right Side Left Side													
WWAN Main	Yes	Yes	No	Yes	Yes	Yes							
BT&WLAN	Yes	Yes	No	No	Yes								

General Note:

Referring to KDB 941225 D06 v01r01, 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.

<GSM SAR>

Plot No.	Band	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)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	251	848.8	28.41	29.00	1.146	0.04	0.651	0.746
#09	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.41	29.00	1.146	0.02	0.870	0.997
	GSM850	GPRS (GMSK 4 Tx slots)	Left side	1	251	848.8	28.41	29.00	1.146	0.06	0.586	0.671
	GSM850	GPRS (GMSK 4 Tx slots)	Right side	1	251	848.8	28.41	29.00	1.146	0.01	0.712	0.816
	GSM850	GPRS (GMSK 4 Tx slots)	Bottom side	1	251	848.8	28.41	29.00	1.146	-0.16	0.109	0.125
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	128	824.2	27.68	29.00	1.355	0.04	0.682	0.924
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	189	836.4	28.24	29.00	1.191	0.01	0.807	0.961
	GSM850	GPRS (GMSK 4 Tx slots)	Right side	1	128	824.2	27.68	29.00	1.355	0.07	0.551	0.747
	GSM850	GPRS (GMSK 4 Tx slots)	Right side	1	189	836.4	28.24	29.00	1.191	-0.04	0.684	0.815
	GSM1900	GPRS (GMSK 3 Tx slots)	Front	1	512	1850.2	26.32	27.00	1.169	0.02	0.498	0.582
	GSM1900	GPRS (GMSK 3 Tx slots)	Back	1	512	1850.2	26.32	27.00	1.169	-0.03	0.620	0.725
	GSM1900	GPRS (GMSK 3 Tx slots)	Left side	1	512	1850.2	26.32	27.00	1.169	0.04	0.223	0.261
	GSM1900	GPRS (GMSK 3 Tx slots)	Right side	1	512	1850.2	26.32	27.00	1.169	0.12	0.084	0.098
#10	GSM1900	GPRS (GMSK 3 Tx slots)	Bottom side	1	512	1850.2	26.32	27.00	1.169	0.18	0.680	<mark>0.795</mark>

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FCC SAR Test Report

<WCDMA SAR>

Plot No.	Band	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)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2K	Front	1	4182	836.4	22.89	23.50	1.151	0.11	0.630	0.725
	WCDMA Band V	RMC 12.2K	Back	1	4182	836.4	22.89	23.50	1.151	0.02	0.777	0.894
	WCDMA Band V	RMC 12.2K	Left side	1	4182	836.4	22.89	23.50	1.151	0.06	0.629	0.724
	WCDMA Band V	RMC 12.2K	Right side	1	4182	836.4	22.89	23.50	1.151	0.04	0.622	0.716
	WCDMA Band V	RMC 12.2K	Bottom side	1	4182	836.4	22.89	23.50	1.151	0.13	0.107	0.123
	WCDMA Band V	RMC 12.2K	Back	1	4132	826.4	22.87	23.50	1.156	-0.05	0.758	0.876
#11	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.86	23.50	1.159	-0.01	0.785	<mark>0.910</mark>
	WCDMA Band IV	RMC 12.2K	Front	1	1513	1752.6	24.21	24.50	1.069	-0.14	0.659	0.705
	WCDMA Band IV	RMC 12.2K	Back	1	1513	1752.6	24.21	24.50	1.069	-0.05	0.775	0.829
	WCDMA Band IV	RMC 12.2K	Left side	1	1513	1752.6	24.21	24.50	1.069	0.11	0.225	0.241
	WCDMA Band IV	RMC 12.2K	Right side	1	1513	1752.6	24.21	24.50	1.069	0.01	0.149	0.159
	WCDMA Band IV	RMC 12.2K	Bottom side	1	1513	1752.6	24.21	24.50	1.069	0.01	0.718	0.768
	WCDMA Band IV	RMC 12.2K	Back	1	1312	1712.4	23.81	24.50	1.172	-0.1	0.755	0.885
#12	WCDMA Band IV	RMC 12.2K	Back	1	1413	1732.6	23.68	24.50	1.208	-0.08	0.823	<mark>0.994</mark>
	WCDMA Band II	RMC 12.2K	Front	1	9538	1907.6	23.31	23.50	1.045	0.01	0.835	0.872
	WCDMA Band II	RMC 12.2K	Back	1	9538	1907.6	23.31	23.50	1.045	0.1	1.060	1.107
	WCDMA Band II	RMC 12.2K	Left side	1	9538	1907.6	23.31	23.50	1.045	0.19	0.324	0.338
	WCDMA Band II	RMC 12.2K	Right side	1	9538	1907.6	23.31	23.50	1.045	-0.06	0.115	0.120
#13	WCDMA Band II	RMC 12.2K	Bottom side	1	9538	1907.6	23.31	23.50	1.045	-0.05	1.140	1.191
	WCDMA Band II	RMC 12.2K	Front	1	9262	1852.4	23.22	23.50	1.067	0.07	0.691	0.737
	WCDMA Band II	RMC 12.2K	Front	1	9400	1880	22.92	23.50	1.143	0.03	0.726	0.830
	WCDMA Band II	RMC 12.2K	Back	1	9262	1852.4	23.22	23.50	1.067	0.02	0.851	0.908
	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	22.92	23.50	1.143	0.02	0.924	1.056
	WCDMA Band II	RMC 12.2K	Bottom side	1	9262	1852.4	23.22	23.50	1.067	0.01	0.989	1.055
	WCDMA Band II	RMC 12.2K	Bottom side	1	9400	1880	22.92	23.50	1.143	0.09	0.964	1.102

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FCC SAR Test Report

<LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offest	Modulation	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)	Reported 1g SAR (W/kg)
	LTE Band 4	20M	1	49	QPSK	Front	1	20300	1745	22.78	23.50	1.180	-0.19	0.579	0.683
#14	LTE Band 4	20M	1	49	QPSK	Back	1	20300	1745	22.78	23.50	1.180	0.08	0.596	0.703
	LTE Band 4	20M	1	49	QPSK	Left side	1	20300	1745	22.78	23.50	1.180	-0.04	0.204	0.241
	LTE Band 4	20M	1	49	QPSK	Right side	1	20300	1745	22.78	23.50	1.180	0.03	0.089	0.105
	LTE Band 4	20M	1	49	QPSK	Bottom side	1	20300	1745	22.78	23.50	1.180	0.09	0.540	0.637
	LTE Band 4	20M	50	24	QPSK	Front	1	20300	1745	21.75	22.50	1.189	-0.18	0.464	0.551
	LTE Band 4	20M	50	24	QPSK	Back	1	20300	1745	21.75	22.50	1.189	0.17	0.527	0.626
	LTE Band 4	20M	50	24	QPSK	Left side	1	20300	1745	21.75	22.50	1.189	0.01	0.194	0.231
	LTE Band 4	20M	50	24	QPSK	Right side	1	20300	1745	21.75	22.50	1.189	0.02	0.083	0.099
	LTE Band 4	20M	50	24	QPSK	Bottom side	1	20300	1745	21.75	22.50	1.189	0.17	0.491	0.584
	LTE Band 7	20M	1	99	QPSK	Front	1	21100	2535	22.46	23.00	1.132	0.05	0.661	0.749
	LTE Band 7	20M	1	99	QPSK	Back	1	21100	2535	22.46	23.00	1.132	0.01	0.774	0.876
	LTE Band 7	20M	1	99	QPSK	Left side	1	21100	2535	22.46	23.00	1.132	-0.12	0.310	0.351
	LTE Band 7	20M	1	99	QPSK	Right side	1	21100	2535	22.46	23.00	1.132	0.08	0.120	0.136
#15	LTE Band 7	20M	1	99	QPSK	Bottom side	1	21100	2535	22.46	23.00	1.132	0.05	1.110	1.257
	LTE Band 7	20M	1	99	QPSK	Back	1	20850	2510	22.34	23.00	1.164	0.15	0.630	0.733
	LTE Band 7	20M	1	99	QPSK	Back	1	21350	2560	22.39	23.00	1.151	-0.06	0.715	0.823
	LTE Band 7	20M	1	99	QPSK	Bottom side	1	20850	2510	22.34	23.00	1.164	0.02	0.832	0.969
	LTE Band 7	20M	1	99	QPSK	Bottom side	1	21350	2560	22.39	23.00	1.151	0.13	1.050	1.208
	LTE Band 7	20M	50	49	QPSK	Front	1	21100	2535	21.39	22.00	1.151	-0.08	0.580	0.667
	LTE Band 7	20M	50	49	QPSK	Back	1	21100	2535	21.39	22.00	1.151	-0.09	0.619	0.712
	LTE Band 7	20M	50	49	QPSK	Left side	1	21100	2535	21.39	22.00	1.151	0.01	0.239	0.275
	LTE Band 7	20M	50	49	QPSK	Right side	1	21100	2535	21.39	22.00	1.151	-0.15	0.094	0.108
	LTE Band 7	20M	50	49	QPSK	Bottom side	1	21100	2535	21.39	22.00	1.151	0.01	0.864	0.994
	LTE Band 7	20M	50	49	QPSK	Bottom side	1	20850	2510	21.08	22.00	1.236	0.02	0.877	1.084
	LTE Band 7	20M	50	49	QPSK	Bottom side	1	21350	2560	21.35	22.00	1.161	0.04	0.865	1.005
	LTE Band 7	20M	100	0	QPSK	Back	1	21100	2535	21.42	22.00	1.143	-0.18	0.598	0.683
	LTE Band 7	20M	100	0	QPSK	Bottom side	1	21100	2535	21.42	22.00	1.143	-0.07	0.878	1.003

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<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	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	1	6	2437	11.23	11.50	1.064	97.85	1.022	0.02	0.041	0.045
#16	WLAN 2.4GHz	802.11b 1Mbps	Back	1	6	2437	11.23	11.50	1.064	97.85	1.022	-0.06	0.046	0.050
	WLAN 2.4GHz	802.11b 1Mbps	Left side	1	6	2437	11.23	11.50	1.064	97.85	1.022	0.04	0.034	0.037
	WLAN 2.4GHz	802.11b 1Mbps	Top side	1	6	2437	11.23	11.50	1.064	97.85	1.022	0.04	0.013	0.014

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15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	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)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	251	848.8	28.41	29.00	1.146	0.04	0.651	0.746
#09	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.41	29.00	1.146	0.02	0.870	0.997
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	128	824.2	27.68	29.00	1.355	0.04	0.682	0.924
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	189	836.4	28.24	29.00	1.191	0.01	0.807	0.961
	GSM1900	GPRS (GMSK 3 Tx slots)	Front	1	512	1850.2	26.32	27.00	1.169	0.02	0.498	0.582
#17	GSM1900	GPRS (GMSK 3 Tx slots)	Back	1	512	1850.2	26.32	27.00	1.169	-0.03	0.620	<mark>0.725</mark>

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<WCDMA SAR>

Plot No.	Band	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)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2K	Front	1	4182	836.4	22.89	23.50	1.151	0.11	0.630	0.725
	WCDMA Band V	RMC 12.2K	Back	1	4182	836.4	22.89	23.50	1.151	0.02	0.777	0.894
	WCDMA Band V	RMC 12.2K	Back	1	4132	826.4	22.87	23.50	1.156	-0.05	0.758	0.876
#11	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.86	23.50	1.159	-0.01	0.785	<mark>0.910</mark>
	WCDMA Band IV	RMC 12.2K	Front	1	1513	1752.6	24.21	24.50	1.069	-0.14	0.659	0.705
	WCDMA Band IV	RMC 12.2K	Back	1	1513	1752.6	24.21	24.50	1.069	-0.05	0.775	0.829
	WCDMA Band IV	RMC 12.2K	Back	1	1312	1712.4	23.81	24.50	1.172	-0.1	0.755	0.885
#12	WCDMA Band IV	RMC 12.2K	Back	1	1413	1732.6	23.68	24.50	1.208	-0.08	0.823	0.994
	WCDMA Band II	RMC 12.2K	Front	1	9538	1907.6	23.31	23.50	1.045	0.01	0.835	0.872
#18	WCDMA Band II	RMC 12.2K	Back	1	9538	1907.6	23.31	23.50	1.045	0.1	1.060	1.107
	WCDMA Band II	RMC 12.2K	Front	1	9262	1852.4	23.22	23.50	1.067	0.07	0.691	0.737
	WCDMA Band II	RMC 12.2K	Front	1	9400	1880	22.92	23.50	1.143	0.03	0.726	0.830
	WCDMA Band II	RMC 12.2K	Back	1	9262	1852.4	23.22	23.50	1.067	0.02	0.851	0.908
	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	22.92	23.50	1.143	0.02	0.924	1.056

<LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offest	Modulation	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)	Reported 1g SAR (W/kg)
	LTE Band 4	20M	1	49	QPSK	Front	1	20300	1745	22.78	23.50	1.180	-0.19	0.579	0.683
#14	LTE Band 4	20M	1	49	QPSK	Back	1	20300	1745	22.78	23.50	1.180	0.08	0.596	<mark>0.703</mark>
	LTE Band 4	20M	50	24	QPSK	Front	1	20300	1745	21.75	22.50	1.189	-0.18	0.464	0.551
	LTE Band 4	20M	50	24	QPSK	Back	1	20300	1745	21.75	22.50	1.189	0.17	0.527	0.626
	LTE Band 7	20M	1	99	QPSK	Front	1	21100	2535	22.46	23.00	1.132	0.05	0.661	0.749
#19	LTE Band 7	20M	1	99	QPSK	Back	1	21100	2535	22.46	23.00	1.132	0.01	0.774	<mark>0.876</mark>
	LTE Band 7	20M	1	99	QPSK	Back	1	20850	2510	22.34	23.00	1.164	0.15	0.630	0.733
	LTE Band 7	20M	1	99	QPSK	Back	1	21350	2560	22.39	23.00	1.151	-0.06	0.715	0.823
	LTE Band 7	20M	50	49	QPSK	Front	1	21100	2535	21.39	22.00	1.151	-0.08	0.580	0.667
	LTE Band 7	20M	50	49	QPSK	Back	1	21100	2535	21.39	22.00	1.151	-0.09	0.619	0.712
	LTE Band 7	20M	100	0	QPSK	Back	1	21100	2535	21.42	22.00	1.143	-0.18	0.598	0.683

<DTS WLAN SAR>

Plot No.	Band	Mode		Gap (cm)	(.n	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	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	1	6	2437	11.23	11.50	1.064	97.85	1.022	0.02	0.041	0.045
#16	WLAN 2.4GHz	802.11b 1Mbps	Back	1	6	2437	11.23	11.50	1.064	97.85	1.022	-0.06	0.046	<mark>0.050</mark>

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15.4 Repeated SAR Measurement

No.	Band	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	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.41	29.00	1.146	0.02	0.870	1	0.997
2nd	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	28.41	29.00	1.146	0.03	0.846	1.029	0.969
1st	WCDMA Band II	RMC 12.2K	Bottom side	1	9538	1907.6	23.31	23.50	1.045	-0.05	1.140	1	1.191
2nd	WCDMA Band II	RMC 12.2K	Bottom side	1	9538	1907.6	23.31	23.50	1.045	0.18	1.080	1.056	1.128
1st	WCDMA Band IV	RMC 12.2K	Back	1	1413	1732.6	23.68	24.50	1.208	-0.08	0.823	1	0.994
2nd	WCDMA Band IV	RMC 12.2K	Back	1	1413	1732.6	23.68	24.50	1.208	-0.13	0.796	1.034	0.961
1st	LTE Band 7	QPSK 1RB 99offset	Bottom side	1	21100	2535	22.46	23.00	1.132	0.05	1.110	1	1.257
2nd	LTE Band 7	QPSK 1RB 99offset	Bottom side	1	21100	2535	22.46	23.00	1.132	0.01	1.100	1.009	1.246

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General Note:

- 1. Per KDB 865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg
- 2. Per KDB 865664 D01v01r03, 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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16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Po	ortable Hands	et	Note	
NO.	Simultaneous Transmission Comigurations	Head	Body-worn	Hotspot	Note	
1.	GSM(Voice) + WLAN2.4GHz(data)	Yes	Yes			
2.	WCDMA(Voice) + WLAN2.4GHz(data)	Yes	Yes			
3.	GSM(Voice) + Bluetooth(data)	Yes	Yes			
4.	WCDMA((Voice) + Bluetooth(data)	Yes	Yes			
5.	GPRS/EDGE(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot	
6.	WCDMA(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot	
7.	LTE(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot	
8.	GPRS/EDGE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering	
9.	WCDMA(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering	
10.	LTE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering	

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General Note:

- This device supported VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP). 1.
- 2. This device 2.4GHz WLAN supports hotspot operation.
- WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously. 3.
- 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 reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) SPLSR = $(SAR_1 + SAR_2)^{1.5} / (min. separation distance, mm)$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - 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.

Bluetooth	Exposure Position	Head	Hotspot	Body worn
Max Power	Test separation	0 mm	10 mm	10 mm
9.0 dBm	Estimated SAR (W/kg)	0.336 W/kg	0.168 W/kg	0.168 W/kg

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16.1 Head Exposure Conditions

<WWAN PCE + WLAN DTS>

11117.111	E + WLAN I	- 10-	WWAN PCE	WLAN DTS	0		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.435	0.210	0.65		
	GSM850	Right Tilted	0.339	0.113	0.45		
	GSIVIOSO	Left Cheek	0.408	0.085	0.49		
GSM		Left Tilted	0.333	0.060	0.39		
GOIVI		Right Cheek	0.316	0.210	0.53		
	GSM1900	Right Tilted	0.138	0.113	0.25		
	GSWIT900	Left Cheek	0.358	0.085	0.44		
		Left Tilted	0.129	0.060	0.19		
		Right Cheek	0.513	0.210	0.72		
	Band V	Right Tilted	0.411	0.113	0.52		
	Band v	Left Cheek	0.491	0.085	0.58		
		Left Tilted	0.433	0.060	0.49		
		Right Cheek	0.396	0.210	0.61		
WCDMA	Band IV	Right Tilted	0.127	0.113	0.24		
VVCDIVIA		Left Cheek	0.387	0.085	0.47		
		Left Tilted	0.122	0.060	0.18		
		Right Cheek	0.426	0.210	0.64		
	Band II	Right Tilted	0.187	0.113	0.30		
	Danu II	Left Cheek	0.607	0.085	0.69		
		Left Tilted	0.183	0.060	0.24		
		Right Cheek	0.334	0.210	0.54		
	Band 4	Right Tilted	0.143	0.113	0.26		
	Danu 4	Left Cheek	0.376	0.085	0.46		
LTE		Left Tilted	0.120	0.060	0.18		
LIE		Right Cheek	0.441	0.210	0.65		
	Band 7	Right Tilted	0.149	0.113	0.26		
	Danu /	Left Cheek	0.545	0.085	0.63		
		Left Tilted	0.113	0.060	0.17		

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<WWAN PCE + Bluetooth DSS>

THE TOTAL PROPERTY OF THE PROP	E + Bluetoc	All Book	WWAN PCE	Bluetooth DSS	0		
WWAN	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Estimated Bluetooth SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.435	0.336	0.77		
	GSM850	Right Tilted	0.339	0.336	0.68		
	COMOSO	Left Cheek	0.408	0.336	0.74		
GSM		Left Tilted	0.333	0.336	0.67		
GOIVI		Right Cheek	0.316	0.336	0.65		
	GSM1900	Right Tilted	0.138	0.336	0.47		
	GSWIT900	Left Cheek	0.358	0.336	0.69		
		Left Tilted	0.129	0.336	0.47		
		Right Cheek	0.513	0.336	0.85		
	Band V	Right Tilted	0.411	0.336	0.75		
	banu v	Left Cheek	0.491	0.336	0.83		
		Left Tilted	0.433	0.336	0.77		
		Right Cheek	0.396	0.336	0.73		
WCDMA	Band IV	Right Tilted	0.127	0.336	0.46		
VVCDIVIA		Left Cheek	0.387	0.336	0.72		
		Left Tilted	0.122	0.336	0.46		
		Right Cheek	0.426	0.336	0.76		
	Band II	Right Tilted	0.187	0.336	0.52		
	Danu II	Left Cheek	0.607	0.336	0.94		
		Left Tilted	0.183	0.336	0.52		
		Right Cheek	0.334	0.336	0.67		
	Band 4	Right Tilted	0.143	0.336	0.48		
	Danu 4	Left Cheek	0.376	0.336	0.71		
LTE		Left Tilted	0.120	0.336	0.46		
LIE		Right Cheek	0.441	0.336	0.78		
	Dond 7	Right Tilted	0.149	0.336	0.49		
	Band 7	Left Cheek	0.545	0.336	0.88		
		Left Tilted	0.113	0.336	0.45		

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16.2 Hotspot Exposure Conditions

<WWAN PCE + WLAN DTS>

SWWAIT C	E + WLAN	310>	WWAN PCE	WLAN DTS	Commence of		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Front	0.746	0.045	0.79		
		Back	0.997	0.050	1.05		
	GSM850	Left side	0.671	0.037	0.71		
	GOIVIOOO	Right side	0.816		0.82		
		Top side		0.014	0.01		
GSM		Bottom side	0.125		0.13		
GOIVI		Front	0.582	0.045	0.63		
		Back	0.725	0.050	0.78		
	GSM1900	Left side	0.261	0.037	0.30		
	GOWITHOU	Right side	0.098		0.10		
		Top side		0.014	0.01		
		Bottom side	0.795		0.80		
		Front	0.725	0.045	0.77		
		Back	0.910	0.050	0.96		
	Band V	Left side	0.724	0.037	0.76		
	Danu v	Right side	0.716		0.72		
		Top side		0.014	0.01		
		Bottom side	0.123		0.12		
		Front	0.705	0.045	0.75		
		Back	0.994	0.050	1.04		
WCDMA	Band IV	Left side	0.241	0.037	0.28		
VVCDIVIA		Right side	0.159		0.16		
		Top side		0.014	0.01		
		Bottom side	0.768		0.77		
		Front	0.872	0.045	0.92		
		Back	1.107	0.050	1.16		
	Band II	Left side	0.338	0.037	0.38		
	Danu II	Right side	0.120		0.12		
		Top side		0.014	0.01		
		Bottom side	0.191		0.19		
		Front	0.683	0.045	0.73		
		Back	0.703	0.050	0.75		
	Pand 4	Left side	0.241	0.037	0.28		
	Band 4	Right side	0.105		0.11		
		Top side		0.014	0.01		
LTE		Bottom side	0.637		0.64		
LIE		Front	0.749	0.045	0.79		
		Back	0.876	0.050	0.93		
	Dond 7	Left side	0.351	0.037	0.39		
	Band 7	Right side	0.136		0.14		
		Top side		0.014	0.01		
		Bottom side	1.257		<mark>1.26</mark>		

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SPORTON LAB. FCC SAR Test Report

<wwan po<="" th=""><th colspan="12">WWAN PCE + Bluetooth DSS> WWAN PCE Bluetooth DSS Command</th></wwan>	WWAN PCE + Bluetooth DSS> WWAN PCE Bluetooth DSS Command											
		Exposure	WWAN PCE Max.	Estimated	Summed							
1AWW	N Band	Position	WWAN SAR	Bluetooth SAR	SAR (W/kg)	SPLSR	Case No					
		_	(W/kg)	(W/kg)								
		Front	0.746	0.168	0.91							
		Back	0.997	0.168	1.17							
	GSM850	Left side	0.671	0.168	0.84							
		Right side	0.816		0.82							
		Top side		0.168	0.17							
GSM		Bottom side	0.125		0.13							
		Front	0.582	0.168	0.75							
		Back	0.725	0.168	0.89							
	GSM1900	Left side	0.261	0.168	0.43							
		Right side	0.098		0.10							
		Top side		0.168	0.17							
		Bottom side	0.795		0.80							
		Front	0.725	0.168	0.89							
		Back	0.910	0.168	1.08							
	Band V	Left side	0.724	0.168	0.89							
		Right side	0.716		0.72							
		Top side		0.168	0.17							
		Bottom side	0.123		0.12							
		Front	0.705	0.168	0.87							
		Back	0.994	0.168	1.16							
WCDMA	Band IV	Left side	0.241	0.168	0.41							
1100111111	Danair	Right side	0.159		0.16							
		Top side		0.168	0.17							
		Bottom side	0.768		0.77							
		Front	0.872	0.168	1.04							
		Back	1.107	0.168	1.28							
	Band II	Left side	0.338	0.168	0.51							
	Dana II	Right side	0.120		0.12							
		Top side		0.168	0.17							
		Bottom side	0.191		0.19							
		Front	0.683	0.168	0.85							
		Back	0.703	0.168	0.87							
	Band 4	Left side	0.241	0.168	0.41							
	Dana 4	Right side	0.105		0.11							
		Top side		0.168	0.17							
LTE		Bottom side	0.637		0.64							
LIE		Front	0.749	0.168	0.92							
		Back	0.876	0.168	1.04							
	Band 7	Left side	0.351	0.168	0.52							
	Danu I	Right side	0.136		0.14							
		Top side		0.168	0.17							
		Bottom side	1.257		1.26							

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16.3 <u>Body-Worn Accessory Exposure Conditions</u>

<WWAN PCE + WLAN DTS>

			WWAN PCE	WLAN DTS	Summed		
WWAN	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.746	0.045	0.79		
GSM	GSIVIOSO	Back	0.997	0.050	1.05		
	GSM1900	Front	0.582	0.045	0.63		
	GSW1900	Back	0.725	0.050	0.78		
	Band V	Front	0.725	0.045	0.77		
		Back	0.910	0.050	0.96		
WCDMA	Band IV	Front	0.705	0.045	0.75		
WODIVIA	Danu IV	Back	0.994	0.050	1.04		
	Band II	Front	0.872	0.045	0.92		
	Dallu II	Back	1.107	0.050	1.16		
	Band 4	Front	0.683	0.045	0.73		
LTE -	Danu 4	Back	0.703	0.050	0.75		
	Band 7	Front	0.749	0.045	0.79		
	Band 7	Back	0.876	0.050	0.93		

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WWAN PCF + Bluetooth DSS

<wwan +="" bluetooth="" dss="" pce=""></wwan>										
			WWAN PCE	Bluetooth DSS	Summed					
WWAN	Band	Exposure Position	Max. WWAN SAR (W/kg)	Estimated Bluetooth SAR (W/kg)	SAR (W/kg)	SPLSR	Case No			
	GSM850	Front	0.746	0.168	0.91					
GSM	GSM1900	Back	0.997	0.168	1.17					
GSIVI		Front	0.582	0.168	0.75					
		Back	0.725	0.168	0.89					
	Band V	Front	0.725	0.168	0.89					
		Back	0.91	0.168	1.08					
WCDMA	Band IV	Front	0.705	0.168	0.87					
VVCDIVIA	Danu IV	Back	0.994	0.168	1.16					
	Band II	Front	0.872	0.168	1.04					
	Danu II	Back	1.107	0.168	1.28					
	Band 4	Front	0.683	0.168	0.85					
LTE -	Dai10 4	Back	0.703	0.168	0.87					
	Band 7	Front	0.749	0.168	0.92					
	Band 7	Back	0.876	0.168	1.04					

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17. Uncertainty Assessment

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 17.1. 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.

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System							
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %
Boundary Effects	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	0.4	Rectangular	√3	1	1	± 0.2 %	± 0.2 %
Probe Positioning	2.9	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Max. SAR Eval.	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Test Sample Related							
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup							
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %
Combined Standard Uncertainty						± 11.0 %	± 10.8 %
Coverage Factor for 95 %						K=2	
Expanded Uncertainty						± 22.0 %	± 21.5 %

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Table 17.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

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18. 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
- [3] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v01r02, "SAR Measurement Procedures for 802.11 a/b/g Transmitters", May 2007
- [6] FCC KDB 447498 D01 v05r02, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Feb 2014
- [7] FCC KDB 648474 D04 v01r02, "SAR Evaluation Considerations for Wireless Handsets", Dec 2013.
- [8] FCC KDB 941225 D01 v03, "3G SAR MEAUREMENT PROCEDURES", Oct 2014
- [9] FCC KDB 941225 D05 v02r03, "SAR Evaluation Considerations for LTE Devices", Dec 2013
- [10] FCC KDB 941225 D06 v02, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2014.
- [11] FCC KDB 865664 D01 v01r03, "SAR Measurement Requirements for 100 MHz to 6 GHz", Feb 2014.
- [12] FCC KDB 865664 D02 v01r01, "RF Exposure Compliance Reporting and Documentation Considerations" May 2013.

Appendix A. Plots of System Performance Check

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The plots are shown as follows.

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System Check Head 835MHz 150211

DUT: D835V2-SN:4d151

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_150211 Medium parameters used: f = 835 MHz; σ = 0.912 S/m; ϵ_r = 41.56; ρ =

 1000 kg/m^3

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.80 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 52.514 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.43 W/kgMaximum value of SAR (measured) = 2.80 W/kg

-2.17 -4.33 -6.50 -8.66 -10.83

0 dB = 2.80 W/kg

System Check Head 1750MHz 150209

DUT: D1750V2-SN:1090

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_150209 Medium parameters used: f = 1750 MHz; σ = 1.395 S/m; ϵ_r = 40.742; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

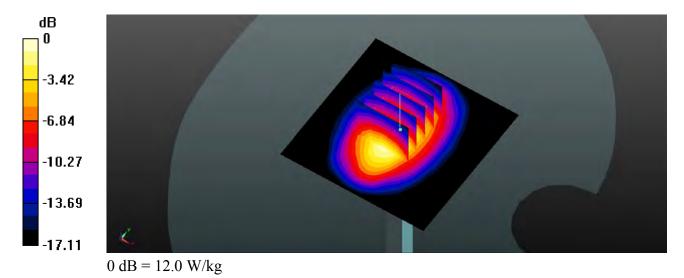
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 12.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 94.295 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 15.4 W/kg SAR(1 g) = 8.58 W/kg; SAR(10 g) = 4.59 W/kg

Maximum value of SAR (measured) = 12.0 W/kg



System Check Head 1900MHz 150209

DUT: D1900V2-SN:5d170

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_150209 Medium parameters used: f = 1900 MHz; $\sigma = 1.456$ S/m; $\varepsilon_r = 40.84$; $\rho = 1.000$ Medium: $\varepsilon_r = 40.84$; $\rho = 1.000$ Medium: $\varepsilon_r = 40.84$; ε_r

 1000 kg/m^3

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

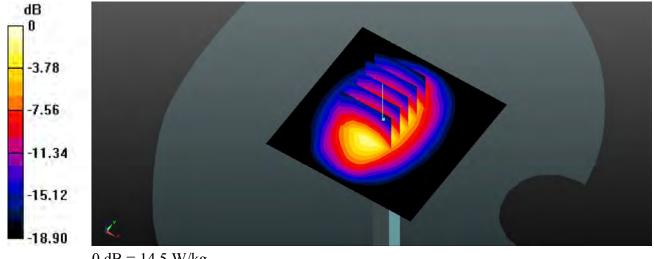
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.6 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 99.843 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.21 W/kgMaximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg

System Check Head 2450MHz 150302

DUT: D2450V2-SN:908

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450_150302 Medium parameters used: f = 2450 MHz; σ = 1.845 S/m; ϵ_r = 37.668; ρ

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

Ambient Temperature: 23.4°C; Liquid Temperature: 22.6°C

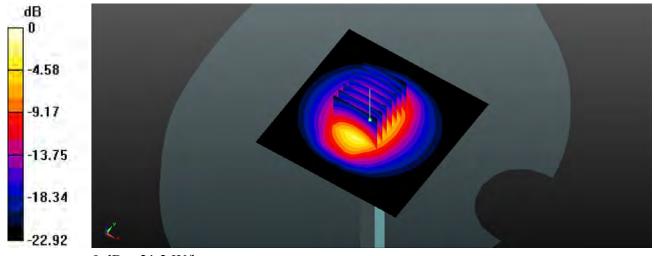
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.05, 7.05, 7.05); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 21.0 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 89.549 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 29.2 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.16 W/kgMaximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg

System Check Head 2600MHz 150209

DUT: D2600V2-SN:1061

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600_150209 Medium parameters used: f = 2600 MHz; σ = 2.053 S/m; ϵ_r = 37.984; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

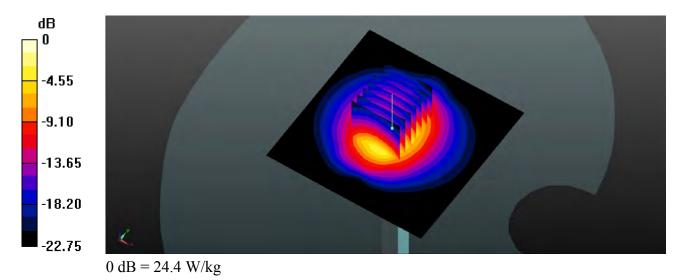
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(6.92, 6.92, 6.92); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 24.0 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 89.530 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 33.8 W/kg SAR(1 g) = 15.5 W/kg; SAR(10 g) = 6.93 W/kg

Maximum value of SAR (measured) = 24.4 W/kg



System Check Body 835MHz 150210

DUT: D835V2-SN:4d151

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL_835_150210 Medium parameters used: f = 835 MHz; $\sigma = 0.952$ S/m; $\epsilon_r = 56.789$; $\rho = 0.952$ S/m; $\epsilon_r = 56.789$; $\epsilon_r = 56.789$

 1000 kg/m^3

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

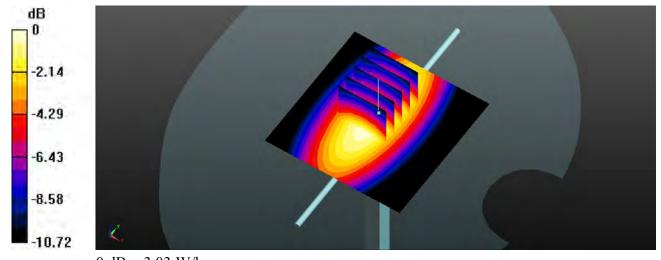
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 3.06 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 51.218 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.57 W/kgMaximum value of SAR (measured) = 3.03 W/kg



0 dB = 3.03 W/kg

System Check Body 1750MHz 150208

DUT: D1750V2-SN:1090

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL_1750_150208 Medium parameters used: f = 1750 MHz; σ = 1.529 S/m; ϵ_r = 54.187; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

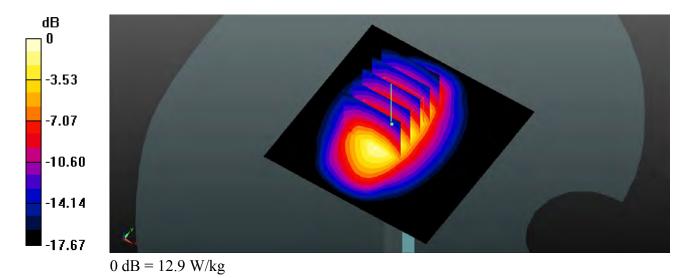
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.1 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 85.911 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 16.7 W/kg SAR(1 g) = 9.35 W/kg: SAR(10 g) = 4.94 W/kg

SAR(1 g) = 9.35 W/kg; SAR(10 g) = 4.94 W/kgMaximum value of SAR (measured) = 12.9 W/kg



System Check Body 1900MHz 150208

DUT: D1900V2-SN:5d170

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_150208 Medium parameters used: f = 1900 MHz; σ = 1.534 S/m; ϵ_r = 55.327; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

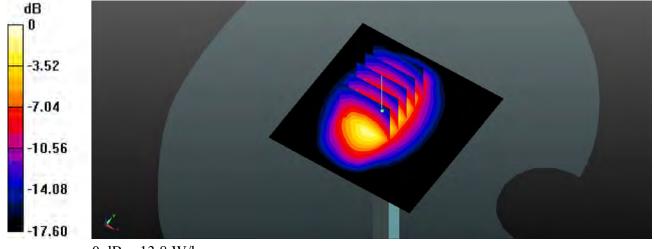
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 79.071 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.17 W/kgMaximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg

System Check Body 2450MHz 150302

DUT: D2450V2-SN:908

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL_2450_150302 Medium parameters used: f = 2450 MHz; σ = 1.949 S/m; ϵ_r = 53.894; ρ

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.4 °C

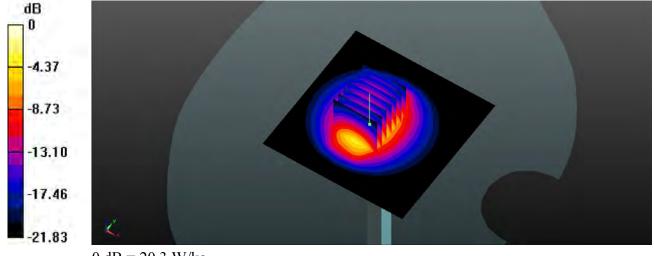
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 20.2 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 80.234 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.12 W/kgMaximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg

System Check Body 2600MHz 150208

DUT: D2600V2-SN:1061

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: MSL_2600_150208 Medium parameters used: f = 2600 MHz; σ = 2.165 S/m; ϵ_r = 53.823; ρ

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

Ambient Temperature: 23.7 °C; Liquid Temperature: 22.5 °C

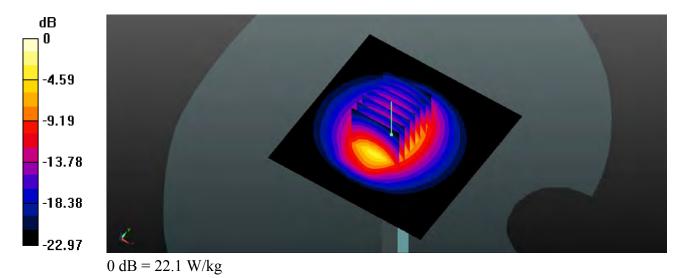
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 21.7 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 85.950 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 29.8 W/kg SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.37 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.37 W/kg Maximum value of SAR (measured) = 22.1 W/kg



Appendix B. Plots of High SAR Measurement

The plots are shown as follows.

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Issued Date: Mar. 10, 2015 Form version: 141020

Report No.: FA512806

#01 GSM850_GPRS (GMSK 4 Tx slots)_Right Cheek_Ch251

Communication System: GPRS (GMSK 4 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: HSL_835_150211 Medium parameters used: f = 848.8 MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 41.408$; $\rho = 1000$ kg/m³

Date: 2015/2/11

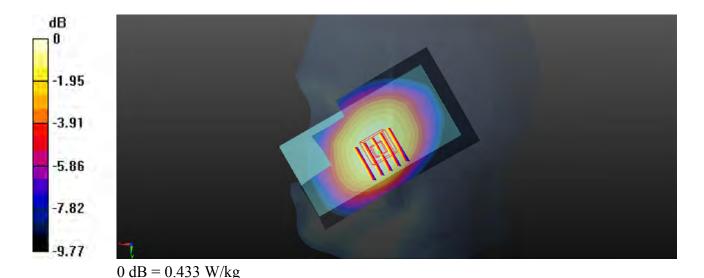
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch251/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.434 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.417 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.475 W/kg SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.290 W/kg Maximum value of SAR (measured) = 0.433 W/kg



#02 GSM1900 GPRS (GMSK 3 Tx slots) Left Cheek Ch512

Communication System: GPRS (GMSK 3 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:2.77 Medium: HSL 1900 150209 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.403$ S/m; $\varepsilon_r = 41.06$; ρ $= 1000 \text{ kg/m}^3$

Date: 2015/2/9

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

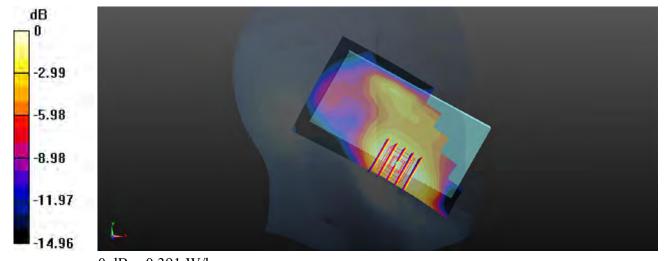
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch512/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.411 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.439 V/m; Power Drift = 0.03 dBPeak SAR (extrapolated) = 0.483 W/kgSAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.391 W/kg



0 dB = 0.391 W/kg

#03 WCDMA Band V_RMC 12.2K_Right Cheek_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL_835_150211 Medium parameters used: f = 836.4 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.543$; $\rho = 1000 \text{ kg/m}^3$

Date: 2015/2/11

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

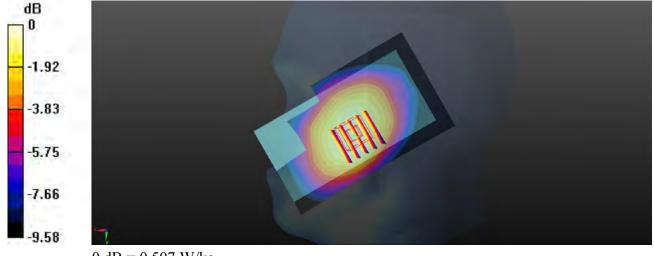
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch4182/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.515 W/kg

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.898 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.342 W/kgMaximum value of SAR (measured) = 0.507 W/kg



0 dB = 0.507 W/kg

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: HSL 1750 150209 Medium parameters used: f = 1752.6 MHz; $\sigma = 1.398$ S/m; $\varepsilon_r = 40.735$; ρ $= 1000 \text{ kg/m}^3$

Date: 2015/2/9

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

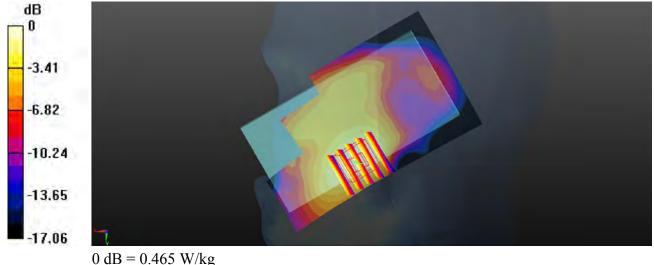
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch1513/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.498 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.984 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.544 W/kgSAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.465 W/kg



#05 WCDMA Band II_RMC 12.2K_Left Cheek_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL_1900_150209 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.803$; ρ

Date: 2015/2/9

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

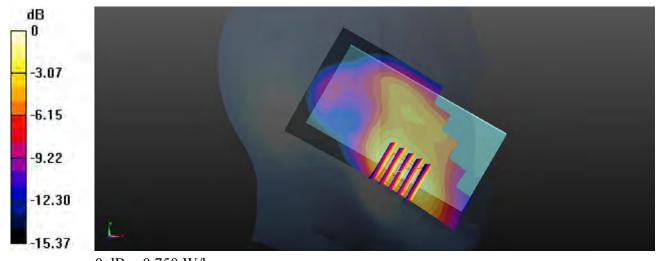
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch9538/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.663 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.875 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.926 W/kg SAR(1 g) = 0.581 W/kg: SAR(10 g) = 0.350 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.350 W/kgMaximum value of SAR (measured) = 0.750 W/kg



0 dB = 0.750 W/kg

#06 LTE Band 4 QPSK 20M(50,24) Left Cheek Ch20300

Communication System: FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL_1750_150209 Medium parameters used: f = 1745 MHz; $\sigma = 1.391$ S/m; $\epsilon_r = 40.757$; ρ

Date: 2015/2/9

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

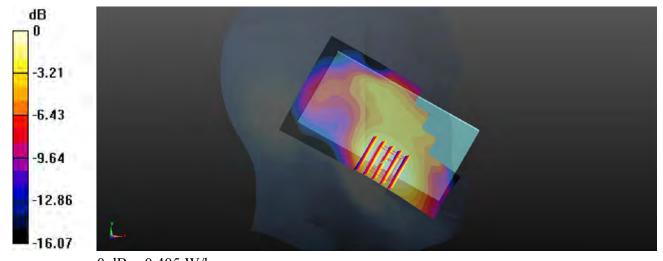
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch20300/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.435 W/kg

Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.870 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.493 W/kg

SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.198 W/kgMaximum value of SAR (measured) = 0.405 W/kg



0 dB = 0.405 W/kg

Communication System: FDD-LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL_2600_150209 Medium parameters used: f = 2535 MHz; $\sigma = 1.978$ S/m; $\epsilon_r = 38.261$; ρ

Date: 2015/2/9

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

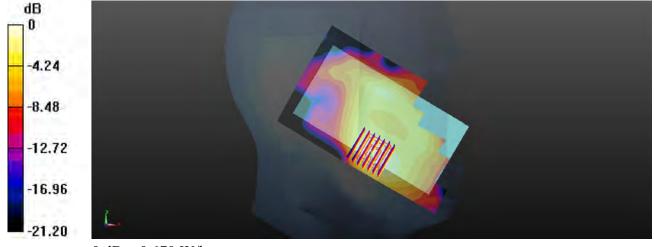
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(6.92, 6.92, 6.92); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch21100/Area Scan (81x131x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.691 W/kg

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.545 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.898 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.257 W/kgMaximum value of SAR (measured) = 0.670 W/kg



0 dB = 0.670 W/kg

#08 WLAN 2.4GHz 802.11b 1Mbps Right Cheek Ch6

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1.022

Medium: HSL 2450 150302 Medium parameters used: f = 2437 MHz; $\sigma = 1.831$ S/m; $\varepsilon_r = 37.733$; ρ

Date: 2015/3/2

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

Ambient Temperature: 23.4°C; Liquid Temperature: 22.6°C

DASY5 Configuration:

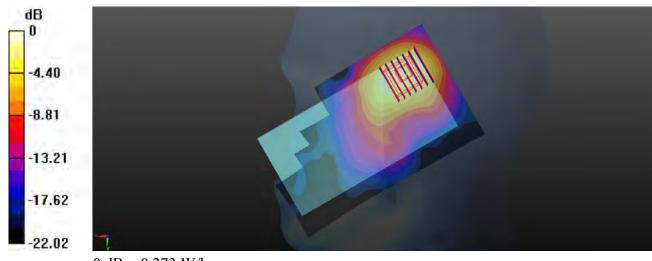
- Probe: EX3DV4 SN3911; ConvF(7.05, 7.05, 7.05); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch6/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.299 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.157 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.098 W/kgMaximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.273 W/kg

#09 GSM850_GPRS (GMSK 4 Tx slots)_Back_1.0cm_Ch251

Communication System: GPRS (GMSK 4 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_835_150210 Medium parameters used: f = 848.8 MHz; $\sigma = 0.967$ S/m; $\epsilon_r = 56.63$; $\rho = 1000$ kg/m³

Date: 2015/2/10

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

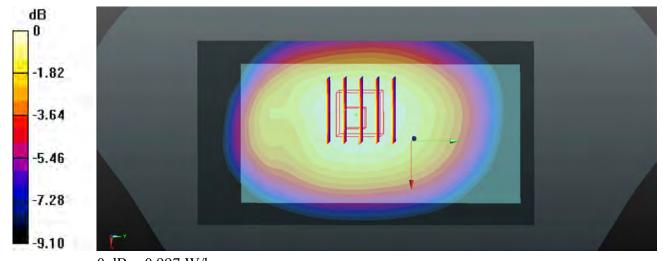
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch251/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.01 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 29.492 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 1.15 W/kg SAR(1 g) = 0.870 W/kg; SAR(10 g) = 0.636 W/kg

Maximum value of SAR (measured) = 0.997 W/kg



0 dB = 0.997 W/kg

#10 GSM1900_GPRS (GMSK 3 Tx slots)_Bottom side_1.0cm_Ch512

Communication System: GPRS (GMSK 3 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:2.77 Medium: MSL_1900_150208 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 55.469$; $\rho = 1000$ kg/m³

Date: 2015/2/8

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

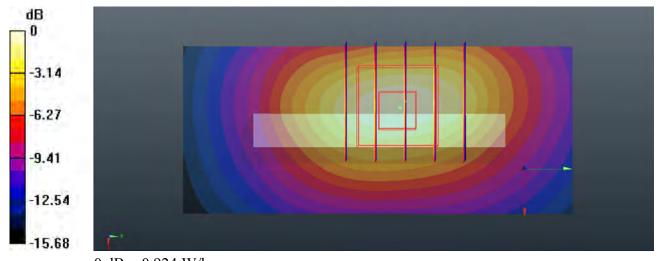
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch512/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.901 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.380 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 1.13 W/kg SAR(1 g) = 0.68 W/kg; SAR(10 g) = 0.386 W/kg

SAR(1 g) = 0.68 W/kg; SAR(10 g) = 0.386 W/kg Maximum value of SAR (measured) = 0.924 W/kg



0 dB = 0.924 W/kg

#11 WCDMA Band V_RMC 12.2K_Back_1.0cm_Ch4233

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL_835_150210 Medium parameters used: f = 846.6 MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 56.648$; $\rho = 1000 \text{ kg/m}^3$

Date: 2015/2/10

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

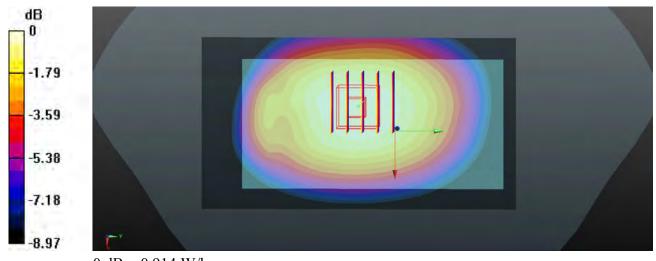
Ch4233/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.913 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 28.323 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.581 W/kg

Maximum value of SAR (measured) = 0.914 W/kg



0 dB = 0.914 W/kg

#12 WCDMA Band IV_RMC 12.2K_Back_1.0cm_Ch1413

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: MSL_1750_150208 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.511$ S/m; $\epsilon_r = 54.266$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch1413/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.08 W/kg

Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.535 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.823 W/kg; SAR(10 g) = 0.497 W/kg

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

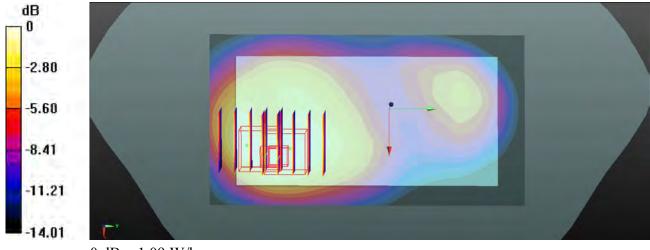
Ch1413/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.535 V/m: Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.482 W/kg

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



0 dB = 1.09 W/kg

#13 WCDMA Band II_RMC 12.2K_Bottom side_1.0cm_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL_1900_150208 Medium parameters used: f = 1907.6 MHz; σ = 1.544 S/m; $ε_r = 55.266$; ρ = 1000 kg/m³

Date: 2015/2/8

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

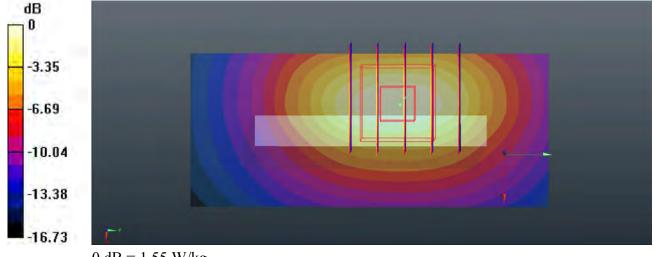
Ch9538/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.52 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 15.221 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.627 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg

#14 LTE Band 4_QPSK_20M(1,49)_Back_1.0cm_Ch20300

Communication System: FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: MSL_1750_150208 Medium parameters used: f = 1745 MHz; σ = 1.524 S/m; ϵ_r = 54.21; ρ

Date: 2015/2/8

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch20300/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.795 W/kg

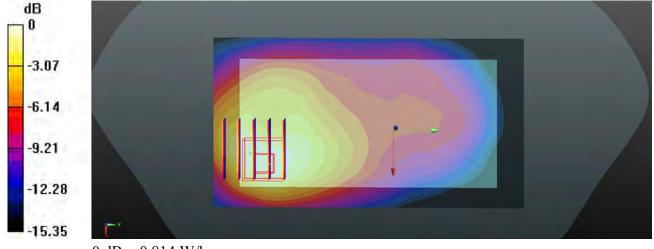
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.090 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.348 W/kg

Maximum value of SAR (measured) = 0.814 W/kg



0 dB = 0.814 W/kg

#15 LTE Band 7 QPSK 20M(1,99) Bottom side 1.0cm Ch21100

Communication System: FDD-LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: MSL_2600_150208 Medium parameters used: f = 2535 MHz; σ = 2.091 S/m; ϵ_r = 53.894; ρ

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

Ambient Temperature: 23.7 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

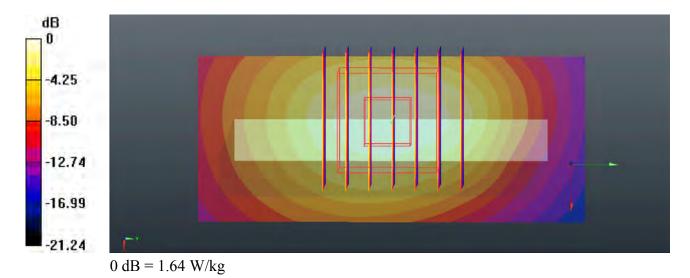
Ch21100/Area Scan (31x71x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 1.67 W/kg

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.710 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.550 W/kg

Maximum value of SAR (measured) = 1.64 W/kg



#16 WLAN 2.4GHz_802.11b 1Mbps_Back_1.0cm_Ch6

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1.022

Medium: MSL_2450_150302 Medium parameters used: f = 2437 MHz; σ = 1.922 S/m; ϵ_r = 53.921; ρ

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch6/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.0577 W/kg

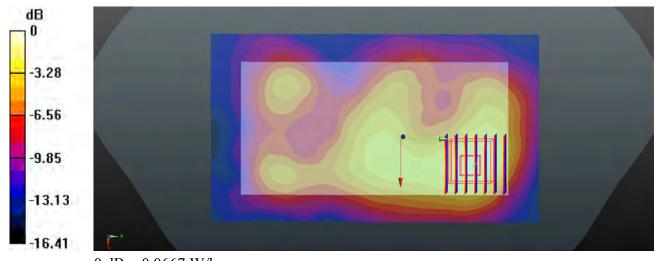
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.596 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0880 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0667 W/kg



0 dB = 0.0667 W/kg

#17 GSM1900_GPRS (GMSK 3 Tx slots)_Back_1.0cm_Ch512

Communication System: GPRS (GMSK 3 Tx slot); Frequency: 1850.2 MHz; Duty Cycle: 1:2.77 Medium: MSL_1900_150208 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.487$ S/m; $\epsilon_r = 55.469$; $\rho = 1000$ kg/m³

Date: 2015/2/8

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

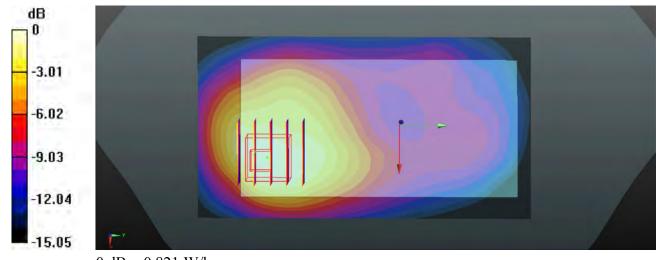
DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch512/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.904 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.157 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.01 W/kg SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.372 W/kg

Maximum value of SAR (measured) = 0.821 W/kg



0 dB = 0.821 W/kg

#18 WCDMA Band II RMC 12.2K Back 1.0cm Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL 1900 150208 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.544$ S/m; $\epsilon_r = 55.266$; ρ

Date: 2015/2/8

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch9538/Area Scan (61x111x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.43 W/kg

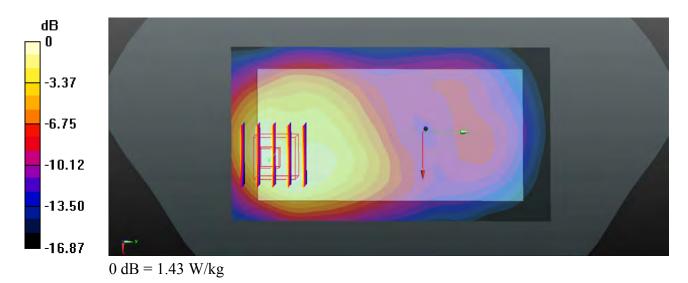
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.927 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.609 W/kg

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



#19 LTE Band 7_QPSK_20M(1,99)_Back_1.0cm_Ch21100

Communication System: FDD-LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: MSL_2600_150208 Medium parameters used: f = 2535 MHz; σ = 2.091 S/m; ϵ_r = 53.894; ρ

Date: 2015/2/8

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

Ambient Temperature: 23.7 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2014/4/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch21100/Area Scan (71x131x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 1.06 W/kg

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.090 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.413 W/kg

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

