: Lemobile Information Technology (Beijing) APPLICANT

Co., Ltd.

**EQUIPMENT** : mobile phone

**BRAND NAME** : Letv

**MODEL NAME** : Le 1 Pro

**FCC ID** : 2AFWMLE1PRO

**STANDARD** : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

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

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

Reviewed by: Eric Huang / Deputy Manager

Cole huan's

Approved by: Jones Tsai / Manager



Report No. : FA582501

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### **Revision History**

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA582501	Rev. 01	Initial issue of report Sep. 2	

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### 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Lemobile Information Technology (Beijing) Co., Ltd., mobile phone, Le 1 Pro,** are as follows.

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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	0.67	0.64	1.20	
	GSM1900	0.51	0.54	0.61	
	WCDMA Band V	0.55	0.51	0.97	
	WCDMA Band IV	0.62	0.93	0.97	
	WCDMA Band II	0.90	1.05	1.14	
	CDMA 2000 BC 0	0.32	0.55	0.99	
PCE	CDMA 2000 BC1	0.71	0.91	0.99	1.38
FGE	LTE Band 12	0.18	0.26	0.26	1.30
	LTE Band 17	0.17	0.33	0.33	
	LTE Band 5	0.37	0.50	0.61	
	LTE Band 26	0.32	0.43	0.52	
	LTE Band 4	0.52	0.82	0.82	
	LTE Band 2	0.62	0.95	1.00	
	LTE Band 25	0.63	0.94	0.99	
DTS	WLAN 2.4GHz Band	0.47	0.12	0.16	1.38
	WLAN 5.3GHz Band	<0.10	<0.10		
NII	WLAN 5.5GHz Band	0.21	<0.10		1.12
	WLAN 5.8GHz Band	<0.10	<0.10		
Date	e of Testing:		Sep. 07, 2015	~ Sep. 17, 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 1528-2013 and FCC KDB publications.

### 2. Administration Data

Testing Laboratory						
Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.						
Test Site Location	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China					
	TEL: +86-755-8637-9589					
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Applicant Applicant							
Company Name Lemobile Information Technology (Beijing) Co., Ltd.							
Address WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING.China							

Manufacturer						
Company Name	Lemobile Information Technology (Beijing) Co., Ltd.					
	WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING.China					

### 3. Guidance Standard

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting 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 802.11 Wi-Fi SAR v02r01
- 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

### 4. Equipment Under Test (EUT) Information

### 4.1 General Information

	Product Feature & Specification
Equipment Name	mobile phone
Brand Name	Letv
Model Name	Le 1 Pro
FCC ID	2AFWMLE1PRO
IMEL Code	SIM 1: 868126020002279
IMEI Code	SIM 2: 868126020002261
MEID Code	SIM 1: 86812602001024
	SIM 2: 86812602000226
	GSM850: 824.2 MHz ~ 848.8 MHz
	GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz
	WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
	CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz
	CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz
	LTE Band 12: 699.7 MHz ~ 715.3 MHz
	LTE Band 17: 706.5 MHz ~ 713.5 MHz
Mindon Toologologo and	LTE Band 4: 1710.7 MHz ~ 1754.3 MHz
Wireless Technology and	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz
Frequency Range	LTE Band 5: 824.7 MHz ~ 848.3 MHz
	LTE Band 26: 814.7 MHz ~ 848.3 MHz
	LTE Band 25: 1850.7 MHz ~ 1914.3 MHz
	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz
	WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz
	WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz
	WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz
	WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	Ant+
	· GSM/GPRS/EGPRS
	· RMC/AMR 12.2Kbps
	· HSDPA
	· HSUPA
	· DC-HSDPA
Mode	· HSPA+(16QAM uplink is not supported)
	· CDMA2000 : 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A)
	· LTE: QPSK, 16QAM
	· 802.11b/g/n HT20/HT40
	· 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80
	· Bluetooth v3.0+EDR, Bluetooth v4.1 LE
HW Version	DVT3.2
SW Version	5.0.008S
* *	Class B – EUT cannot support Packet Switched and Circuit Switched Network
mode	simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

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### SPORTON LAB. FCC SAR Test Report

### on LAB. FOC SAN TEST NEPOT

#### Remark:

 This device 2.4GHz WLAN supports Hotspot operation and 5.2GHz / 5.3GHz / 5.5GHz/5.8GHz supports WiFi Direct (GC only).

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- 2. This device supported VoIP in GPRS/EGPRS,CDMA,WCDMA, LTE (e.g. 3rd party VoIP).
- 3. This device supports GRPS/EGPRS mode up to multi-slot class33.
- 4. This device does not support DTM operation.
- 5. The EUT has 2 SIM slots and supports dual SIM dual Standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active).
- 6. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose dual SIM1 card to perform all tests.

### 4.2 General LTE SAR Test and Reporting Considerations

Summarize	d necessary item	s address	ed in KDI	B 94122	5 D05 v02	2r03			
FCC ID	2AFWMLE1PRO								
Equipment Name	mobile phone								
Operating Frequency Range of each LTE transmission band	LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz								
Channel Bandwidth	LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz								
uplink modulations used	QPSK, and 16QAI	М							
LTE Voice / Data requirements	Data only								
LTE MPR permanently built-in by design	Table Modulation	Cha	nnel bandv	vidth / Tra	nsmission	PR) for Porbandwidth	(RB)	MPR (dB)	
	ODOM	MHz	MHz	MHz	MHz	MHz	MHz		
	QPSK 16 QAM	>5 ≤5	> 4 ≤ 4	>8 ≤8	> 12 ≤ 12	> 16 ≤ 16	> 18 ≤ 18	≤1 ≤1	
	16 QAM	>5	>4	>8	> 12	> 16	> 18	≤2	
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)								
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.								
LTE Release version	R8 ,Category 4								
LTE Carrier Aggregation Support	NO								

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			Tı	ransm	ission	(H, M, L)	chan		rs and freq	uenc	cies in	each LTE	band			
	Don	dwidth 1.4	NAL I-			Donduis	14h 2 N	LTE Bai		د ایرام	dth 5 M	11.1		Bandwidt	h 10 l	A1.1-
	Ch. #		eq. (N	<b>1</b> □→\		Bandwich. #		eq. (MHz)	Ch. #	iuwic		g. (MHz)		h. #		eg. (MHz)
_	23017		699.7			3025	FIE	700.5	23035			701.5		8060	FIE	704
М	23095		707.5			3095		700.5	23095			707.5		3095		707.5
H	23173		715.3			3165		714.5	23155		_	713.5	1	3130		707.5
П	23173	<u> </u>	715.	3	20	5100		LTE Bai				113.3	23	130		711
			Ra	ndwid	th 5 MF	17		LIE Dai	lu 17			Bandwidt	h 10 Mi			
		Channel #		iiiawia	ui o ivii		(MHz	<u> </u>	Channel #			Freq.	(MHz	)		
_		23755					6.5	<i>'</i>			3780			70	`	<i>)</i>
N		23790					10				790			71		
Н		23825					3.5				800			71		
		20020					0.0	LTE Ba	and 5							
	Ban	dwidth 1.4	MHz			Bandwic	th 3 N		1	ndwic	dth 5 M	1Hz		Bandwidtl	h 1 <u>0</u> l	MHz
	Ch. #		eq. (N	1Hz)	C	h. #		eq. (MHz)	Ch. #			q. (MHz)		h. #		eq. (MHz)
L	20407		824.7			0415		825.5	20425			826.5		· ·		829
М	20525		836.5	5	20	0525		836.5	20525			836.5	20	)525		836.5
Н	20643	,	848.3	3	20	0635		847.5	20625					0600		844
					<u> </u>			LTE Ba	nd 26							
	Bandwi	dth 1.4 MH	lz	Ва	andwidt	h 3 MHz		Bandwid	th 5 MHz		Band	lwidth 10 M	lHz	Bandv	vidth	15 MHz
	Ch. #	Freq. (I	MHz)	Ch	ı. #	Freq. (M	Hz)	Ch. #	Freq. (MHz	<u>z</u> )	Ch. #	Freq.	(MHz)	Ch. #	F	req. (MHz
L	26697	814	.7	267	705	815.5		26715	816.5		2674	8 0	19	26765		821.5
M	26865	831	.5	268	365	831.5		26865	831.5		2686	5 83	831.5			831.5
Η	27033	848	.3	270	025	847.5		27015	846.5		2699	0 8	844 26965			841.5
								LTE Ba	ind 4							
	Bandwidth		Ва	ındwid	th 3 MF		ndwid	lth 5 MHz	Bandwidth	ndwidth 10 MHz Bandwid				dwidt	h 20 MHz	
	Ch. #	Freq. (MHz)	CI	h. #	Fred (MH:		า. #	Freq. (MHz)	Ch. #	(N	req. 1Hz)	Ch. #	Freq (MHz		. #	Freq. (MHz)
L	19957	1710.7		965	1711		975	1712.5	20000		715	20025	1717		)50	1720
M	20175	1732.5	+	175	1732		175	1732.5	20175		32.5	20175	1732			1732.5
Н	20393	1754.3	20	385	1753	.5 20	375	1752.5	20350	17	750	20325	1747.5 20		300	1745
								LTE Ba								
	Bandwidth	1.4 MHz Freq.		ındwid h. #	th 3 MF Fred	1	ndwid า. #	th 5 MHz Freq.	Bandwidth Ch. #		MHz req.	Bandwidt Ch. #	Freq	l. Ch		h 20 MHz Freq.
	Ch. #	(MHz)			(MH:	Z)		(MHz)		_ \	1Hz)		(MHz			(MHz)
L	18607	1850.7		615	1851		625	1852.5	18650		855	18675	1857			1860
M	18900	1880		900	188		900	1880	18900		880	18900	1880			1880
Н	19193	1909.3	19	185	1908	.5   19	175	1907.5	19150	19	905	19125	1902	.5   191	100	1900
	Bandwidth	1 1 1 1 1	.D.	n duri d	th 2 M	J-, D-	مطيينط	LTE Bai lth 5 MHz		. 10	NAL I	Bandwidt	h 15 N4	Ja Don	طيينط	h 20 MH
		Freq.	+		th 3 MF Fred	1		Freq.	Bandwidth		req.		n 15 Mi Freq			h 20 MHz Freq.
	Ch. #	(MHz)		h. #	(MH:	z) Cr	า. #	(MHz)	Ch. #	(N	1Hz)	Ch. #	(MHz	<u>z)</u> Cn		(MHz)
L	26047	1850.7		055	1851		065	1852.5	26090		855	26115	1857		140	1860
M	26340	1880	+	340	188		340	1880	26340		880	26340	1880			1880
Н	26683	1914.3	26	675	1913	.5 26	665	1912.5	26640	19	910	26615	1907	.5 265	90	1905

### 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 Ankl		
0.08	1.6	4.0		

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

### 6. Specific Absorption Rate (SAR)

### 6.1 Introduction

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

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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:

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

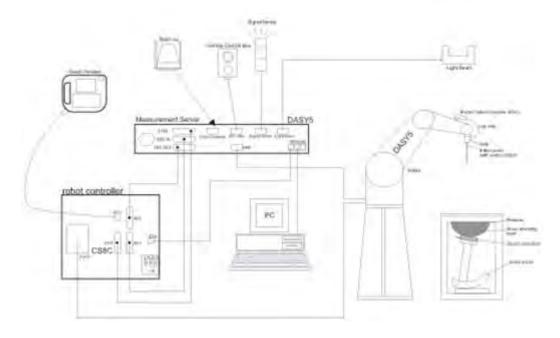
SAR is expressed in units of Watts per kilogram (W/kg)

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

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

### 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, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

### 8. Measurement Procedures

The measurement procedures are as follows:

#### <Conducted power measurement>

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

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- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

#### <SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

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

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

### 8.1 Spatial Peak SAR Evaluation

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

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

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

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

### 8.2 Power Reference Measurement

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

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### 8.3 Area Scan

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

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

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	$\leq$ 2 GHz: $\leq$ 15 mm 2 – 3 GHz: $\leq$ 12 mm	$3 - 4 \text{ GHz: } \le 12 \text{ mm}$ $4 - 6 \text{ GHz: } \le 10 \text{ mm}$
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$	When the x or y dimension of measurement plane orientation the measurement resolution x or y dimension of the test of measurement point on the test	on, is smaller than the above, must be ≤ 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 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan s	spatial reso	lution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>	$\leq$ 2 GHz: $\leq$ 8 mm 2 – 3 GHz: $\leq$ 5 mm <sup>*</sup>	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid	Δz <sub>Zoom</sub> (n>1): between subsequent points	≤ 1.5·∆z	Zoom(n-1)
Minimum zoom scan volume	scan 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 Equipment	Type/Madel	Carial Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1065	Nov. 19, 2014	Nov. 18, 2015
SPEAG	835MHz System Validation Kit	D835V2	4d091	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1750MHz System Validation Kit	D1750V2	1069	Nov. 21, 2014	Nov. 20, 2015
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	Nov. 21, 2014	Nov. 20, 2015
SPEAG	2450MHz System Validation Kit	D2450V2	926	Jul. 24, 2015	Jul. 23, 2016
SPEAG	5000MHz System Validation Kit	D5GHzV2	1167	Jul. 27, 2015	Jul. 26, 2016
SPEAG	Data Acquisition Electronics	DAE4	1386	Feb. 19, 2015	Feb. 18, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3958	Feb. 26, 2015	Feb. 25, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3958	Jul. 23, 2015	Jul. 22, 2016
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1670	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201432827	Jan. 15, 2015	Jan. 14, 2016
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Aug. 07, 2015	Aug. 06, 2016
R&S	Network Analyzer	ZVB8	100106	Sep. 29, 2014	Sep. 28, 2015
SPEAG	Dielectric Assessment KIT	DAK-3.5	1032	NCR	NCR
R&S	Signal Generator	SMBV100A	258305	Jan. 23, 2015	Jan. 22, 2016
mini-circuits	Amplifier	ZVE-3W-83+	162601250	NCR	NCR
Anritsu	Power Sensor	MA2411B	1207253	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Meter	ML2495A	1218010	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Senor	MA2411B	917070	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1005002	Jan. 23, 2015	Jan. 22, 2016
R&S	Spectrum Analyzer	FSP7	101634	Aug. 07, 2015	Aug. 06, 2016
Agilent	Dual Directional Coupler	778D	50422	No	te1
Woken	Attenuator 1	WK0602-XX	N/A	Note1	
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.

### 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												
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9					
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5					
1750	55.2	0	0	0.3	0	44.5	1.37	40.1					
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					
				For Body									
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5					
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2					
1750	70.2	0	0	0.4	0	29.4	1.49	53.4					
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					

Simulating Liquid for 5GHz, Manufactured by SPEAG

Cirridiating Elquid for CC1 12, Maria	lactarea by er Erte			
Ingredients	(% by weight)			
Water	64~78%			
Mineral oil	11~18%			
Emulsifiers	9~15%			
Additives and Salt	2~3%			

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<Tissue Dielectric Parameter Check Results>

< i issue i	Dielec	tric Pa	rameter Cn	eck Resul	(S>					
Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε <sub>r</sub> )	Conductivity Target (σ)	Permittivity Target $(\varepsilon_r)$	Delta (σ) (%)	Delta (ε <sub>r</sub> ) (%)	Limit (%)	Date
750	Head	22.5	0.890	40.918	0.89	41.90	0.00	-2.34	±5	2015/9/17
835	Head	22.7	0.902	40.749	0.90	41.50	0.22	-1.81	±5	2015/9/11
835	Head	22.6	0.897	40.781	0.90	41.50	-0.33	-1.73	±5	2015/9/12
1750	Head	22.6	1.373	41.392	1.37	40.10	0.22	3.22	±5	2015/9/16
1900	Head	22.7	1.419	40.346	1.40	40.00	1.36	0.86	±5	2015/9/12
1900	Head	22.8	1.452	39.039	1.40	40.00	3.71	-2.40	±5	2015/9/13
2450	Head	22.7	1.820	39.753	1.80	39.20	1.11	1.41	±5	2015/9/13
5250	Head	22.9	4.748	36.885	4.71	35.95	0.81	2.60	±5	2015/9/13
5600	Head	22.9	5.129	35.495	5.07	35.50	1.16	-0.01	±5	2015/9/13
5750	Head	22.8	5.152	35.850	5.22	35.35	-1.30	1.41	±5	2015/9/13
750	Body	22.7	0.971	54.634	0.96	55.50	1.15	-1.56	±5	2015/9/10
835	Body	22.8	0.994	54.578	0.97	55.20	2.47	-1.13	±5	2015/9/10
835	Body	22.7	0.974	54.283	0.97	55.20	0.41	-1.66	±5	2015/9/11
1750	Body	22.8	1.527	51.995	1.49	53.40	2.48	-2.63	±5	2015/9/7
1900	Body	22.9	1.542	53.532	1.52	53.30	1.45	0.44	±5	2015/9/8
1900	Body	22.9	1.519	53.569	1.52	53.30	-0.07	0.50	±5	2015/9/9
2450	Body	22.6	1.913	50.974	1.95	52.70	-1.90	-3.28	±5	2015/9/13
5250	Body	22.6	5.267	50.874	5.36	48.95	-1.74	3.93	±5	2015/9/14
5600	Body	22.7	5.851	50.235	5.77	48.50	1.40	3.58	±5	2015/9/14
5750	Body	22.8	6.078	49.876	5.94	48.27	2.32	3.33	±5	2015/9/14

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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 (%)
2015/9/17	750	Head	250	1065	3958	1386	2.21	8.14	8.84	8.60
2015/9/11	835	Head	250	4d091	3958	1386	2.44	9.11	9.76	7.14
2015/9/12	835	Head	250	4d091	3958	1386	2.25	9.11	9.00	-1.21
2015/9/16	1750	Head	250	1069	3958	1386	9.41	37.10	37.64	1.46
2015/9/12	1900	Head	250	5d118	3958	1386	10.30	40.10	41.2	2.74
2015/9/13	1900	Head	250	5d118	3958	1386	10.50	40.10	42.0	4.74
2015/9/13	2450	Head	250	926	3958	1386	13.50	52.10	54.0	3.65
2015/9/13	5250	Head	100	1167	3958	1386	8.26	80.50	82.6	2.61
2015/9/13	5600	Head	100	1167	3958	1386	8.47	82.30	84.7	2.92
2015/9/13	5750	Head	100	1167	3958	1386	8.22	78.70	82.2	4.45
2015/9/10	750	Body	250	1065	3958	1386	2.18	8.64	8.72	0.93
2015/9/10	835	Body	250	4d091	3958	1386	2.34	9.60	9.36	-2.50
2015/9/11	835	Body	250	4d091	3958	1386	2.25	9.60	9.0	-6.25
2015/9/7	1750	Body	250	1069	3958	1386	9.14	38.10	36.56	-4.04
2015/9/8	1900	Body	250	5d118	3958	1386	9.46	40.00	37.84	-5.40
2015/9/9	1900	Body	250	5d118	3958	1386	9.59	40.00	38.36	-4.10
2015/9/13	2450	Body	250	926	3958	1386	13.10	51.70	52.4	1.35
2015/9/14	5250	Body	100	1167	3958	1386	7.79	76.00	77.9	2.50
2015/9/14	5600	Body	100	1167	3958	1386	8.28	80.60	82.8	2.73
2015/9/14	5750	Body	100	1167	3958	1386	7.72	75.60	77.2	2.12

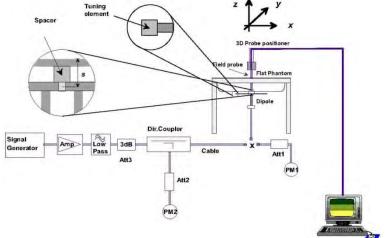




Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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### 11. RF Exposure Positions

### 11.1 Ear and handset reference point

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



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

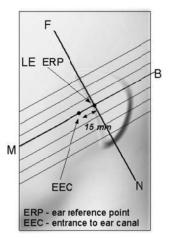
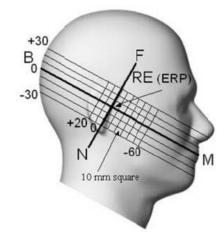


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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

### 11.2 Definition of the cheek position

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

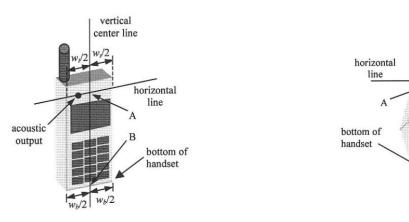


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

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

vertical

center line

acoustic output

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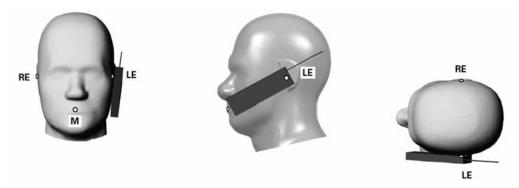


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

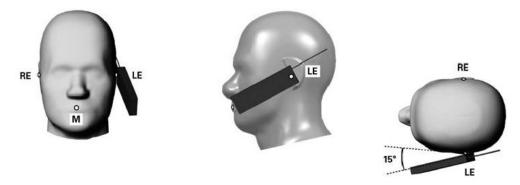


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

### 11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per 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.

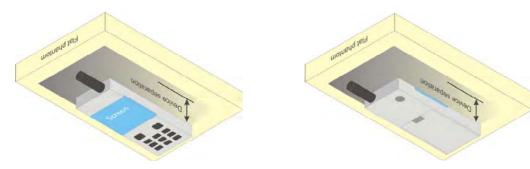


Fig 9.4 Body Worn Position

### 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 KDB 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.

### 12. Conducted RF Output Power (Unit: dBm)

#### <GSM Conducted Power>

#### **General Note:**

 Per KDB 447498 D01v05r02, the maximum output power channel is used for SAR testing and for further SAR test 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 was set in GPRS (4Tx slots) for GSM850/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 was set in GPRS (4Tx slots) for GSM850/GSM1900.

D1 CCM050	Durat Au	anana Daw	(-ID)		Гиото А.	Day		
Band GSM850		erage Pow	, ,	Tune-up		verage Pov	, ,	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit (dBm)
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(ubiii)
GSM (GMSK, 1 Tx slot)	<mark>32.54</mark>	32.51	32.53	33.00	23.54	23.51	23.53	24.00
GPRS (GMSK, 1 Tx slot)	32.53	32.48	32.52	33.00	23.53	23.48	23.52	24.00
GPRS (GMSK, 2 Tx slots)	30.13	29.85	29.88	30.50	24.13	23.85	23.88	24.50
GPRS (GMSK, 3 Tx slots)	29.15	28.49	28.72	29.50	24.89	24.23	24.46	25.24
GPRS (GMSK, 4 Tx slots)	28.86	28.18	28.46	29.00	<mark>25.86</mark>	25.18	25.46	26.00
EDGE (8PSK, 1 Tx slot)	26.86	26.90	26.92	27.00	17.86	17.90	17.92	18.00
EDGE (8PSK, 2 Tx slots)	24.93	24.96	24.97	25.00	18.93	18.96	18.97	19.00
EDGE (8PSK, 3 Tx slots)	23.90	23.92	23.95	24.00	19.64	19.66	19.69	19.74
EDGE (8PSK, 4 Tx slots)	23.25	23.32	23.38	24.00	20.25	20.32	20.38	21.00
,	Burst Average Power (dBm)							
Band GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage Pov	ver (dBm)	Tune-up
	Burst Av 512	erage Pow 661	er (dBm) 810	Limit	Frame-Av 512	verage Pov 661	ver (dBm) 810	Limit
Band GSM1900							, ,	
Band GSM1900 TX Channel	512	661	810	Limit	512	661	810	Limit
Band GSM1900 TX Channel Frequency (MHz)	512 1850.2	661 1880	810 1909.8	Limit (dBm)	512 1850.2	661 1880	810 1909.8	Limit (dBm)
Band GSM1900  TX Channel  Frequency (MHz)  GSM (GMSK, 1 Tx slot)	512 1850.2 30.02	661 1880 30.00	810 1909.8 29.96	Limit (dBm)	512 1850.2 21.02	661 1880 21.00	810 1909.8 20.96	Limit (dBm) 21.50
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot)	512 1850.2 30.02 29.98	661 1880 30.00 29.95	810 1909.8 29.96 29.93	Limit (dBm) 30.50 30.50	512 1850.2 21.02 20.98	661 1880 21.00 20.95	810 1909.8 20.96 20.93	Limit (dBm) 21.50 21.50
Band GSM1900  TX Channel  Frequency (MHz)  GSM (GMSK, 1 Tx slot)  GPRS (GMSK, 1 Tx slot)  GPRS (GMSK, 2 Tx slots)	512 1850.2 30.02 29.98 29.22	661 1880 30.00 29.95 29.01	810 1909.8 29.96 29.93 29.00	Limit (dBm) 30.50 30.50 30.00	512 1850.2 21.02 20.98 23.22	661 1880 21.00 20.95 23.01	810 1909.8 20.96 20.93 23.00	Limit (dBm) 21.50 21.50 24.00
Band GSM1900  TX Channel  Frequency (MHz)  GSM (GMSK, 1 Tx slot)  GPRS (GMSK, 1 Tx slot)  GPRS (GMSK, 2 Tx slots)  GPRS (GMSK, 3 Tx slots)	512 1850.2 30.02 29.98 29.22 28.32	661 1880 30.00 29.95 29.01 27.99	810 1909.8 29.96 29.93 29.00 27.70	Limit (dBm) 30.50 30.50 30.00 28.50	512 1850.2 21.02 20.98 23.22 24.06	661 1880 21.00 20.95 23.01 23.73	810 1909.8 20.96 20.93 23.00 23.44	Limit (dBm) 21.50 21.50 24.00 24.24
Band GSM1900  TX Channel  Frequency (MHz)  GSM (GMSK, 1 Tx slot)  GPRS (GMSK, 1 Tx slot)  GPRS (GMSK, 2 Tx slots)  GPRS (GMSK, 3 Tx slots)  GPRS (GMSK, 4 Tx slots)	512 1850.2 30.02 29.98 29.22 28.32 27.16	661 1880 30.00 29.95 29.01 27.99 26.82	810 1909.8 29.96 29.93 29.00 27.70 26.54	Limit (dBm) 30.50 30.50 30.00 28.50 27.50	512 1850.2 21.02 20.98 23.22 24.06 24.16	661 1880 21.00 20.95 23.01 23.73 23.82	810 1909.8 20.96 20.93 23.00 23.44 23.54	Limit (dBm) 21.50 21.50 24.00 24.24 24.50
Band GSM1900  TX Channel  Frequency (MHz)  GSM (GMSK, 1 Tx slot)  GPRS (GMSK, 1 Tx slot)  GPRS (GMSK, 2 Tx slots)  GPRS (GMSK, 3 Tx slots)  GPRS (GMSK, 4 Tx slots)  EDGE (8PSK, 1 Tx slot)	512 1850.2 30.02 29.98 29.22 28.32 27.16 25.80	661 1880 30.00 29.95 29.01 27.99 26.82 25.75	810 1909.8 29.96 29.93 29.00 27.70 26.54 25.81	Limit (dBm) 30.50 30.50 30.00 28.50 27.50 26.00	512 1850.2 21.02 20.98 23.22 24.06 24.16 16.80	661 1880 21.00 20.95 23.01 23.73 23.82 16.75	810 1909.8 20.96 20.93 23.00 23.44 23.54 16.81	Limit (dBm) 21.50 21.50 24.00 24.24 24.50 17.00

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

The calculated method are shown as below:

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

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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#### <WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 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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3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

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 ( $\beta_c$  and  $\beta_d$ ) 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)
  - Select HSDPA Uplink Parameters vi.
  - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - 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	β <sub>d</sub> (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

- $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{ls} = 30/15 * \beta_c$ . Note 1:
- 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  $\beta_{hs}$  = 30/15 \*  $\beta_c$  , and  $\Delta_{\rm CQI}$  = 24/15 with  $\beta_{hs} = 24/15 * \beta_c$ .
- CM = 1 for  $\beta_o/\beta_d$  =12/15,  $\beta_{hs}/\beta_c$ =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<sub>d</sub>/β<sub>d</sub> 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:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting \*:
  - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - ii. Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) 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

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- 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 <sub>d</sub> (SF)	βc/βd	βнs (Note1)	βес	β <sub>ed</sub> (Note 5) (Note 6)	β <sub>ed</sub> (SF)	β <sub>ed</sub> (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 <sub>ed</sub> 1: 47/15 β <sub>ed</sub> 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  $\beta_{hs}$  = 30/15 \*  $\beta_c$ .
- Note 2: CM = 1 for  $\beta_0/\beta_d = 12/15$ ,  $\beta_{1s}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
- Note 3: For subtest 1 the  $\beta_c/\beta_d$  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  $\beta_c$  = 10/15 and  $\beta_d$  = 15/15.
- Note 4: For subtest 5 the  $\beta_c/\beta_d$  ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c$  = 14/15 and  $\beta_d$  = 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<sub>ed</sub> can not be set directly, it is set by Absolute Grant Value.

**Setup Configuration** 

#### DC-HSDPA 3GPP release 8 Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
  - Set RMC 12.2Kbps + HSDPA mode.
  - Set Cell Power = -25 dBm
  - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
  - Select HSDPA Uplink Parameters
  - Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121

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- a). Subtest 1:  $\beta_0/\beta_d=2/15$
- b). Subtest 2:  $\beta_0/\beta_d=12/15$  c). Subtest 3:  $\beta_0/\beta_d=15/8$
- d). Subtest 4:  $\beta_0/\beta_d=15/4$ Set Delta ACK, Delta NACK and Delta CQI = 8
- Set Ack-Nack Repetition Factor to 3 vii.
- Set CQI Feedback Cycle (k) to 4 ms viii.
- Set CQI Repetition Factor to 2
- Power Ctrl Mode = All Up bits X.
- The transmitted maximum output power was recorded.

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

#### C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

	Parameter	Unit	Value				
Nominal	Avg. Inf. Bit Rate	kbps	60				
Inter-TTI	Distance	TTI's	1				
Number	of HARQ Processes	Proces	6				
		ses	U				
Informati	on Bit Payload ( $N_{\it INF}$ )	Bits	120				
Number	Code Blocks	Blocks	1				
Binary C	hannel Bits Per TTI	Bits	960				
Total Ava	ailable SML's in UE	SML's	19200				
Number	of SML's per HARQ Proc.	SML's	3200				
Coding F	Rate		0.15				
Number	of Physical Channel Codes	Codes	1				
Modulation	on		QPSK				
Note 1:	The RMC is intended to be used for	or DC-HSD	PA				
	mode and both cells shall transmit	with identi	ical				
	parameters as listed in the table.						
Note 2: Maximum number of transmission is limited to 1, i.e.,							
	retransmission is not allowed. The constellation version 0 shall be use		icy and				

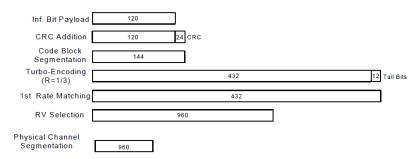


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

### **Setup Configuration**

### < 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 / DC-HSDPA 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 / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

Band			WCDMA V	′			WCDMA II		
TX	Channel	4132	4182	4233	Tune-up	9262	9400	9538	Tune-up
Rx	: Channel	4357	4407	4458	Limit (dBm)	9662 9800 9938		9938	Limit (dBm)
Frequ	iency (MHz)	826.4	836.4	846.6	,	1852.4	1880	1907.6	,
3GPP Rel 99	AMR 12.2Kbps	24.40	24.46	24.50	25.00	23.85	24.23	23.92	24.50
3GPP Rel 99	RMC 12.2Kbps	24.41	24.48	<mark>24.53</mark>	25.00	23.86	<mark>24.25</mark>	23.93	24.50
3GPP Rel 6	HSDPA Subtest-1	23.21	23.25	23.28	24.00	22.60	22.87	22.21	23.00
3GPP Rel 6	HSDPA Subtest-2	23.30	23.28	23.31	24.00	22.54	22.87	22.31	23.00
3GPP Rel 6	HSDPA Subtest-3	22.74	22.57	22.78	23.00	21.99	22.35	21.77	23.00
3GPP Rel 6	HSDPA Subtest-4	22.73	22.58	23.02	23.50	21.96	22.34	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.85	21.79	21.74	22.00	21.66	21.68	21.72	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.87	21.82	21.77	22.00	21.76	21.72	21.75	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.34	21.29	21.23	22.00	21.29	21.17	21.26	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.35	21.33	21.25	22.00	21.28	21.16	21.28	22.00
3GPP Rel 6	HSUPA Subtest-1	22.80	22.51	22.60	23.00	22.25	22.92	22.29	23.00
3GPP Rel 6	HSUPA Subtest-2	21.94	22.12	22.16	23.00	21.45	21.56	21.75	22.00
3GPP Rel 6	HSUPA Subtest-3	21.74	21.80	21.88	22.00	21.36	21.70	21.34	22.00
3GPP Rel 6	HSUPA Subtest-4	22.31	22.30	22.17	23.00	21.95	22.30	21.92	23.00
3GPP Rel 6	HSUPA Subtest-5	23.10	23.20	23.40	24.00	22.60	23.20	22.90	24.00

	Band		WCDMA IV		
Т	X Channel	1312	1413	1513	Tune-up Limit
R	x Channel	1537	1638	1738	(dBm)
Fred	quency (MHz)	1712.4	1732.6	1752.6	, ,
3GPP Rel 99	AMR 12.2Kbps	24.41	24.26	24.67	25.00
3GPP Rel 99	RMC 12.2Kbps	24.42	24.28	<mark>24.68</mark>	25.00
3GPP Rel 6	HSDPA Subtest-1	23.35	22.96	23.50	24.00
3GPP Rel 6	HSDPA Subtest-2	23.12	22.98	23.57	24.00
3GPP Rel 6	HSDPA Subtest-3	22.83	22.43	23.10	24.00
3GPP Rel 6	HSDPA Subtest-4	22.47	22.41	23.05	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.75	21.63	21.68	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.76	21.64	21.67	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.23	21.12	21.16	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.25	21.13	21.09	22.00
3GPP Rel 6	HSUPA Subtest-1	22.54	22.35	22.88	23.00
3GPP Rel 6	HSUPA Subtest-2	22.14	21.94	22.54	23.00
3GPP Rel 6	HSUPA Subtest-3	21.80	21.53	22.09	23.00
3GPP Rel 6	HSUPA Subtest-4	22.13	21.91	22.53	23.00
3GPP Rel 6	HSUPA Subtest-5	23.30	23.10	23.60	24.00

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#### <CDMA2000 Conducted Power>

#### **General Note:**

 Per KDB 941225 D01v03, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.

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- 2. Per KDB 941225 D01v03, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
- 3. Per KDB 941225 D01v03, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

Band	CD	MA2000 E	3C0	Tune-up	CDI	MA2000 B0	C1	Tune-up
TX Channel	1013	384	777	Limit	25	600	1175	Limit
Frequency (MHz)	824.7	836.52	848.31	(dBm)	1851.25	1880	1908.75	(dBm)
1xRTT RC1 SO55	24.32	24.33	24.36	25.00	24.21	24.37	24.54	25.00
1xRTT RC3 SO55	<mark>24.46</mark>	24.35	24.39	25.00	24.44	24.39	<mark>24.65</mark>	25.00
1xRTT RC3 SO32(+ F-SCH)	24.44	24.32	24.36	25.00	24.43	24.32	24.64	25.00
1xRTT RC3 SO32(+SCH)	24.37	24.31	24.31	25.00	24.28	24.30	24.62	25.00
1xEVDO RTAP 153.6Kbps	24.38	24.25	24.30	25.00	24.36	24.31	24.64	25.00
1xEVDO RETAP 4096Bits	24.25	24.23	24.24	25.00	24.27	24.25	24.45	25.00

### <LTE Conducted Power>

#### **General Note:**

1. 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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### SPORTON LAB. FCC SAR Test Report

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### <LTE Band 2>

BW	<lie dan<="" th=""><th><u>u 22</u></th><th></th><th></th><th>_</th><th></th><th></th><th></th><th></th></lie>	<u>u 22</u>			_				
Channel   1870   1880   1910   (dBm)   (dBm)	BW	Madulation	RB	RB				_	
Channel	[MHz]	Modulation	Size	Offset					MPR
Trequency (MHz)		Cha	nnol						
20								(ubiii)	
20	20		Cy (IVI⊓Z)	0					
20			1					04.50	0
20			•					24.50	U
20									
20									
20								23.50	0-1
20									
20									
20								00.50	0.4
20								23.50	0-1
20									
20									
20								22.50	0-2
Time up   Channel   18675   18900   19125   Tune up   Limit (dBm)									
Section   Sect	20			0				_	
15		Cha	nnel		18675	18900	19125		MPR
15			cy (MHz)		1857.5				(dB)
15			1	0					
15 QPSK 36 0 22.57 22.43 22.52   15 QPSK 36 18 22.22 22.16 22.33   15 QPSK 36 37 22.16 22.07 22.25   15 QPSK 75 0 22.19 22.26 22.42   15 16QAM 1 0 23.09 22.94 23.44   15 16QAM 1 74 22.85 22.63 22.83   15 16QAM 36 0 21.46 21.39 21.62   15 16QAM 36 18 21.39 21.62   15 16QAM 36 18 21.39 21.24 21.28   15 16QAM 36 37 21.21 21.12 21.19   15 16QAM 75 0 21.35 21.24 21.38    Channel 18650 18900 19150 Tune up Limit (dBm) (dBm)   Frequency (MHz) 1855 1880 1905 (dBm) (dBm)   10 QPSK 1 0 23.41 23.27 23.80   10 QPSK 1 24 23.12 23.12 23.41 24.50 0   10 QPSK 1 49 23.31 23.24 23.63   10 QPSK 25 0 22.37 22.24 22.43   10 QPSK 25 12 22.43 22.17 22.46   10 QPSK 25 12 22.43 22.17 22.46   10 QPSK 50 0 22.41 22.22 22.36   10 16QAM 1 0 22.49 22.31 23.06   10 16QAM 1 24 22.24 22.00 22.19 23.50 0-1   10 16QAM 1 49 21.99 22.20 22.42   10 16QAM 25 0 21.40 21.20 21.52   10 16QAM 25 12 21.24 21.30 22.50 0-2	15	QPSK	1	37		23.04		24.50	0
15	15	QPSK	1	74	23.26	23.26	23.37		
15	15	QPSK	36	0	22.57	22.43	22.52		
15	15	QPSK	36	18	22.22	22.16	22.33	22.50	0.1
15	15	QPSK	36	37	22.16	22.07	22.25	23.50	0-1
15	15	QPSK	75	0	22.19	22.26	22.42		
15	15	16QAM	1	0	23.09	22.94	23.44		
15	15	16QAM	1	37	22.42	22.39	22.31	23.50	0-1
15         16QAM         36         18         21.39         21.24         21.28         22.50         0-2           15         16QAM         36         37         21.21         21.12         21.19         0-2           15         16QAM         75         0         21.35         21.24         21.38         Tune up Limit (dBm)         MPR (dB)           Frequency (MHz)         18650         18900         19150         Tune up Limit (dBm)         MPR (dB)           10         QPSK         1         0         23.41         23.27         23.80         23.80         0	15	16QAM	1	74	22.85	22.63	22.83		
15	15	16QAM	36	0	21.46	21.39	21.62		
15	15	16QAM	36	18	21.39	21.24	21.28	22.50	0.2
Channel         18650         18900         19150         Tune up Limit (dBm)         MPR (dB)           10         QPSK         1         0         23.41         23.27         23.80         24.50         0           10         QPSK         1         24         23.12         23.12         23.41         24.50         0           10         QPSK         1         49         23.31         23.24         23.63         24.50         0           10         QPSK         25         0         22.37         22.24         22.43         22.43         22.17         22.46         23.50         0-1           10         QPSK         25         12         22.43         22.17         22.46         23.50         0-1           10         QPSK         25         24         22.22         22.15         22.21         23.50         0-1           10         16QAM         1         0         22.49         22.31         23.06         23.50         0-1           10         16QAM         1         24         22.24         22.00         22.19         23.50         0-1           10         16QAM         25         0	15	16QAM	36	37	21.21	21.12	21.19	22.50	0-2
Frequency (MHz)  1855  1880  1905  Limit (dBm)  (dB)  10  QPSK  1  0  23.41  23.27  23.80  10  QPSK  1  49  23.31  23.24  23.63  10  QPSK  25  0  22.37  22.44  22.43  10  QPSK  25  12  22.43  22.17  22.46  10  QPSK  25  12  22.41  22.22  22.15  22.21  10  QPSK  50  0  22.41  22.22  22.36  10  16QAM  1  24  24  22.24  22.24  22.30  23.50  0-1  16QAM  1  49  21.99  22.20  22.42  10  16QAM  25  0  10  16QAM  25  12  21.40  21.20  21.52  10  16QAM  25  12  21.14  21.22  21.20  0-2	15	16QAM	75	0	21.35	21.24	21.38		
Frequency (MHz)  1855  1880  1905  Limit (dBm)  (dB)  10 QPSK 1 0 23.41 23.27 23.80  10 QPSK 1 49 23.12 23.12 23.41 24.50 0  10 QPSK 25 0 22.37 22.24 22.43  10 QPSK 25 12 22.43 22.17 22.46  10 QPSK 25 24 22.22 22.15 22.21  10 QPSK 50 0 22.41 22.22 22.36  10 QPSK 50 0 22.41 22.22 22.36  10 16QAM 1 0 22.49 22.31 23.06  10 16QAM 1 49 21.99 22.20 22.42  10 16QAM 25 0 21.40 21.20 21.52  10 16QAM 25 12 21.24 21.13 21.44  10 16QAM 25 12 21.24 21.13 21.44  10 16QAM 25 24 21.14 21.22 21.20		Cha	nnel		18650	18900	19150		MPR
10       QPSK       1       0       23.41       23.27       23.80         10       QPSK       1       24       23.12       23.12       23.41       24.50       0         10       QPSK       1       49       23.31       23.24       23.63       22.43       22.43       22.43       22.43       22.43       22.43       22.44       22.24       22.46       23.50       0-1         10       QPSK       25       24       22.22       22.15       22.21       23.50       0-1         10       QPSK       50       0       22.41       22.22       22.36       0-1         10       16QAM       1       0       22.49       22.31       23.06       23.50       0-1         10       16QAM       1       24       22.24       22.00       22.19       23.50       0-1         10       16QAM       1       49       21.99       22.20       22.42       23.50       0-1         10       16QAM       25       0       21.40       21.20       21.52       22.42       22.50       0-2         10       16QAM       25       12       21.24       21.13		Frequen	cy (MHz)		1855	1880	1905		
10     QPSK     1     49     23.31     23.24     23.63       10     QPSK     25     0     22.37     22.24     22.43       10     QPSK     25     12     22.43     22.17     22.46       10     QPSK     25     24     22.22     22.15     22.21       10     QPSK     50     0     22.41     22.22     22.36       10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20	10	QPSK	1	0	23.41	23.27	23.80		
10     QPSK     1     49     23.31     23.24     23.63       10     QPSK     25     0     22.37     22.24     22.43       10     QPSK     25     12     22.43     22.17     22.46       10     QPSK     25     24     22.22     22.15     22.21       10     QPSK     50     0     22.41     22.22     22.36       10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20	10	QPSK_	1	24	23.12	23.12	23.41	24.50	0
10     QPSK     25     0     22.37     22.24     22.43       10     QPSK     25     12     22.43     22.17     22.46       10     QPSK     25     24     22.22     22.15     22.21       10     QPSK     50     0     22.41     22.22     22.36       10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42     0-1       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20	10	QPSK	1	49	23.31		23.63		
10     QPSK     25     12     22.43     22.17     22.46       10     QPSK     25     24     22.22     22.15     22.21       10     QPSK     50     0     22.41     22.22     22.36       10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42     21.52       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20			25						
10     QPSK     25     24     22.22     22.15     22.21       10     QPSK     50     0     22.41     22.22     22.36       10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50       10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20								00.50	0.4
10     QPSK     50     0     22.41     22.22     22.36       10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20								23.50	0-1
10     16QAM     1     0     22.49     22.31     23.06       10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20									
10     16QAM     1     24     22.24     22.00     22.19     23.50     0-1       10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20									
10     16QAM     1     49     21.99     22.20     22.42       10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20								23.50	0-1
10     16QAM     25     0     21.40     21.20     21.52       10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20     (22.50)   (0-2)									
10     16QAM     25     12     21.24     21.13     21.44       10     16QAM     25     24     21.14     21.22     21.20									
10 16QAM 25 24 21.14 21.22 21.20 22.50 0-2									
								22.50	0-2
	10	16QAM	50	0	21.39	21.12	21.30		

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ORTON LAB.	FCC SAR T	Test Rep	ort				Report	No. : FA582501
	Cha	nnel		18625	18900	19175	Tune up	MPR
	Frequenc	cy (MHz)		1852.5	1880	1907.5	Limit (dBm)	(dB)
5	QPSK	1	0	23.29	23.22	23.43	(6.2)	
5	QPSK	1	12	22.95	23.06	23.11	24.50	0
5	QPSK	1	24	22.98	23.05	23.24		
5	QPSK	12	0	22.18	22.06	22.38		
5	QPSK	12	6	22.23	22.19	22.36	†	
5	QPSK	12	11	22.14	22.09	22.36	23.50	0-1
5	QPSK	25	0	22.16	22.27	22.34		
5	16QAM	1	0	22.50	22.26	22.61		
5	16QAM	1	12	22.37	22.05	22.43	23.50	0-1
5	16QAM	1	24	22.41	22.15	22.54		•
5	16QAM	12	0	21.19	21.22	21.44		
5	16QAM	12	6	21.14	21.16	21.45	†	
5	16QAM	12	11	21.16	21.03	21.33	22.50	0-2
5	16QAM	25	0	21.16	21.07	21.24		
	Cha			18615	18900	19185	Tune up	MDD
							Limit	MPR
	Frequenc	cy (MHZ)		1851.5	1880	1908.5	(dBm)	(dB)
3	QPSK	1	0	23.39	23.23	23.42		
3	QPSK	1	7	22.99	23.24	23.50	24.50	0
3	QPSK	1	14	23.01	23.01	23.29		
3	QPSK	8	0	22.09	22.16	22.27		
3	QPSK	8	4	22.22	22.22	22.38	23.50	0-1
3	QPSK	8	7	22.12	22.10	22.32	25.50	0-1
3	QPSK	15	0	22.07	22.17	22.34		
3	16QAM	1	0	22.62	22.29	22.31		
3	16QAM	1	7	22.99	22.30	22.48	23.50	0-1
3	16QAM	1	14	22.27	22.36	22.58		
3	16QAM	8	0	21.14	21.22	21.44		
3	16QAM	8	4	21.30	21.19	21.48	22.50	0-2
3	16QAM	8	7	21.20	21.21	21.40	22.50	0-2
3	16QAM	15	0	21.17	21.20	21.31		
	Cha	nnel		18607	18900	19193	Tune up	MPR
	Frequenc	cy (MHz)		1850.7	1880	1909.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	23.30	23.19	23.47		
1.4	QPSK	1	2	23.42	23.16	23.25		
1.4	QPSK	1	5	23.18	23.37	23.38	24.50	0
1.4	QPSK	3	0	23.32	23.08	23.39	24.00	0
1.4	QPSK	3	1	23.52	23.29	23.24		
1.4	QPSK	3	2	23.29	23.19	23.33		
1.4	QPSK	6	0	22.19	22.12	22.21	23.50	0-1
1.4	16QAM	1	0	22.37	22.32	22.44		
1.4	16QAM	1	2	22.19	22.17	22.34		
1.4	16QAM	1	5	22.36	22.32	22.37	23.50	0-1
1.4	16QAM	3	0	22.53	22.22	22.28	25.50	0-1
1.4	16QAM	3	1	22.08	21.97	22.44		
1.4	16QAM	3	2	22.24	21.96	22.35		
1.4	16QAM	6	0	21.36	21.14	21.57	22.50	0-2

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<LTE Band 4>

<lte ban<="" th=""><th><u>a 4&gt;</u></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></lte>	<u>a 4&gt;</u>							
BW		RB	RB	Power	Power	Power		
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR
[]			55.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)
	Cha			20050	20175	20300	(dBm)	(32)
	Frequen	cy (MHz)		1720	1732.5	1745		
20	QPSK	1	0	23.60	23.68	23.84		
20	QPSK	1	49	22.92	23.06	23.28	24.50	0
20	QPSK	1	99	23.13	23.27	23.69		
20	QPSK	50	0	22.14	22.30	22.47		
20	QPSK	50	24	22.05	22.11	22.31	23.50	0-1
20	QPSK	50	49	22.00	22.04	22.40		
20	QPSK	100	0	22.00	22.20	22.46		
20	16QAM	1	0	22.93	22.77	23.00		
20	16QAM	1	49	22.07	22.10	22.30	23.50	0-1
20	16QAM	1	99	22.28	22.10	22.59		
20	16QAM	50	0	21.14	21.28	21.54		
20	16QAM	50	24	21.00	21.10	21.28	22.50	0-2
20	16QAM	50	49	20.96	21.02	21.37		<u> </u>
20	16QAM	100	0	21.00	21.16	21.43	_	
	Cha	nnel		20025	20175	20325	Tune up	MPR
	Frequen	cy (MHz)		1717.5	1732.5	1747.5	Limit (dBm)	(dB)
15	QPSK	1	0	23.18	23.39	23.52		
15	QPSK	1	37	22.55	23.06	23.25	24.50	0
15	QPSK	1	74	22.98	23.24	23.29		
15	QPSK	36	0	22.01	22.15	22.34		
15	QPSK	36	18	21.96	22.04	22.27	23.50	0-1
15	QPSK	36	37	21.69	22.15	22.25	23.50	0-1
15	QPSK	75	0	21.88	22.11	22.35		
15	16QAM	1	0	22.33	22.53	22.51		
15	16QAM	1	37	21.65	22.03	22.31	23.50	0-1
15	16QAM	1	74	21.97	21.92	22.64		
15	16QAM	36	0	20.99	21.14	21.29		
15	16QAM	36	18	20.96	21.02	21.24	22.50	0-2
15	16QAM	36	37	20.82	21.03	21.24	22.50	0-2
15	16QAM	75	0	20.96	21.10	21.30		
	Cha	nnel		20000	20175	20350	Tune up	MPR
	Frequen	cy (MHz)		1715	1732.5	1750	Limit (dBm)	(dB)
10	QPSK	1	0	23.54	23.53	23.73		
10	QPSK	1	24	22.88	23.13	23.46	24.50	0
10	QPSK	1	49	23.23	23.27	23.52		
10	QPSK	25	0	22.13	22.34	22.41		
10	QPSK	25	12	22.02	22.03	22.32	22.52	0.4
10	QPSK	25	24	21.99	22.14	22.32	23.50	0-1
10	QPSK	50	0	22.01	22.17	22.40		
10	16QAM	1	0	22.80	23.00	22.78		
10	16QAM	1	24	22.36	22.75	22.61	23.50	0-1
10	16QAM	1	49	22.02	22.35	22.86		
10	16QAM	25	0	21.11	21.33	21.41		
10	16QAM	25	12	21.01	21.16	21.25	00.75	0.0
10	16QAM	25	24	20.99	21.16	21.25	22.50	0-2
10	16QAM	50	0	20.96	21.15	21.26		

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TON LAB. F	CC SAR	Test Rep	ort				Report	No. : FA5825
	Cha	nnel		19975	20175	20375	Tune up	MPR
	Frequenc	cy (MHz)		1712.5	1732.5	1752.5	Limit (dBm)	(dB)
5	QPSK	1	0	23.02	23.27	23.30		
5	QPSK	1	12	22.72	22.84	23.07	24.50	0
5	QPSK	1	24	22.65	23.02	23.04		
5	QPSK	12	0	22.01	22.07	22.27		
5	QPSK	12	6	22.01	22.17	22.21	00.50	0.4
5	QPSK	12	11	21.86	22.19	22.34	23.50	0-1
5	QPSK	25	0	21.83	22.21	22.23		
5	16QAM	1	0	22.21	22.56	22.52		
5	16QAM	1	12	22.11	22.62	22.58	23.50	0-1
5	16QAM	1	24	22.01	22.31	22.45		
5	16QAM	12	0	21.00	21.20	21.24		
5	16QAM	12	6	20.89	21.17	21.21	1	
5	16QAM	12	11	20.97	21.08	21.28	22.50	0-2
5	16QAM	25	0	20.77	21.23	21.08		
	Cha			19965	20175	20385	Tune up	
	Frequenc			1711.5	1732.5	1753.5	Limit (dBm)	MPR (dB)
3	QPSK	1	0	23.01	23.16	23.51	(abiii)	
3	QPSK	1	7	23.33	23.41	23.69	24.50	0
3	QPSK	1	14	22.95	23.29	23.33	24.50	J
3	QPSK	8	0	21.95	22.05	22.12		
3	QPSK	8	4	21.83	22.03	22.12	-	
3	QPSK	8	7	21.89	22.12	22.12	23.50	0-1
3	QPSK	15	0	21.09	22.00	22.10	-	
3	16QAM	1	0	22.20	21.98	22.10		
3	16QAM	1	7	22.20	22.09	22.23	23.50	0-1
3	16QAM	1	14	21.73	22.09	22.23	23.50	0-1
3	16QAM	8				+		
3	16QAM	8	0 4	21.22 21.12	21.05 21.23	21.32 21.36	-	
3		8	7				22.50	0-2
3	16QAM 16QAM	15		20.96 20.98	21.15 21.20	21.20 21.13	-	
<u> </u>			0				Tungung	
	Cha Frequenc			19957 1710.7	20175 1732.5	20393 1754.3	Tune up Limit	MPR (dB)
1.4	· · · · ·	* ` '					(dBm)	
1.4	QPSK	1	0	23.21	23.34	23.15		
1.4	QPSK	1	2	23.15	22.94	23.27		
1.4	QPSK	1	5	23.17	23.08	23.06	24.50	0
1.4	QPSK	3	0	22.95	23.01	23.24		
1.4	QPSK	3	1	22.90	23.20	23.36		
1.4	QPSK	3	2	22.99	23.17	23.13	60.75	6.4
1.4	QPSK	6	0	21.79	21.92	22.02	23.50	0-1
1.4	16QAM	1	0	22.09	22.28	22.87		
1.4	16QAM	1	2	22.35	22.47	22.45	-	
1.4	16QAM	1	5	22.02	22.26	22.74	23.50	0-1
1.4	16QAM	3	0	21.90	22.08	22.13		
1.4	16QAM	3	1	21.96	22.12	22.39		
1.4	16QAM	3	2	22.05	22.20	22.47		
1.4	16QAM	6	0	20.99	21.00	21.32	22.50	0-2

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BW	Modulation	RB	RB Officer	Power Low	Power Middle	Power High	Tune up	
[MHz]		Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	MPR
	Cha	nnel		20450	20525	20600	(dBm)	(dB)
	Frequen	cy (MHz)		829	836.5	844		
10	QPSK	1	0	23.35	23.32	23.53		
10	QPSK	1	24	23.32	23.26	23.28	24.50	0
10	QPSK	1	49	23.28	23.30	23.42		
10	QPSK	25	0	22.18	22.24	22.34		
10	QPSK	25	12	22.10	22.19	22.16	23.50	0-1
10	QPSK	25	24	22.08	22.23	22.32	23.30	0-1
10	QPSK	50	0	22.21	22.22	22.40		
10	16QAM	1	0	22.98	22.87	23.07		
10	16QAM	1	24	22.83	23.01	22.82	23.50	0-1
10	16QAM	1	49	22.80	22.74	22.95		
10	16QAM	25	0	21.21	21.27	21.35		
10	16QAM	25	12	20.94	21.18	21.19	22.50	0.0
10	16QAM	25	24	21.04	21.12	21.19	22.50	0-2
10	16QAM	50	0	21.10	21.26	21.35		
	Cha	nnel		20425	20525	20625	Tune up	MPR
	Frequen	cy (MHz)		826.5	836.5	846.5	Limit (dBm)	(dB)
5	QPSK	1	0	23.31	23.15	23.50		
5	QPSK	1	12	23.26	23.18	23.20	24.50	0
5	QPSK	1	24	22.92	23.26	23.39		
5	QPSK	12	0	22.07	22.06	22.16		
5	QPSK	12	6	22.12	22.09	22.22	23.50	0-1
5	QPSK	12	11	22.04	22.15	22.22	23.30	0-1
5	QPSK	25	0	22.10	22.05	22.35		
5	16QAM	1	0	22.36	22.28	22.55		
5	16QAM	1	12	22.50	22.34	22.46	23.50	0-1
5	16QAM	1	24	22.15	22.21	22.49		
5	16QAM	12	0	21.08	21.10	21.28		
5	16QAM	12	6	21.12	21.24	21.34	22.50	0-2
5	16QAM	12	11	21.15	21.19	21.38	22.50	0-2
5	16QAM	25	0	21.11	21.10	21.21		

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	Char	nnel		20415	20525	20635	Tune up	MPR
	Frequenc	y (MHz)		825.5	836.5	847.5	Limit (dBm)	(dB)
3	QPSK	1	0	23.06	23.12	23.51		
3	QPSK	1	7	23.32	23.00	23.49	24.50	0
3	QPSK	1	14	22.98	23.26	23.50		
3	QPSK	8	0	22.08	22.16	22.27		
3	QPSK	8	4	22.00	22.27	22.36	23.50	0-1
3	QPSK	8	7	22.11	22.14	22.32	23.30	0-1
3	QPSK	15	0	22.13	22.07	22.37		
3	16QAM	1	0	22.04	22.12	22.42		
3	16QAM	1	7	22.10	22.23	22.45	23.50	0-1
3	16QAM	1	14	21.99	22.11	22.40		
3	16QAM	8	0	21.05	21.26	21.12		
3	16QAM	8	4	21.08	21.14	21.31	22.50	0-2
3	16QAM	8	7	21.29	21.14	21.38	22.50	0-2
3	16QAM	15	0	21.13	21.09	21.19		
	Char	nnel		20407	20525	20643	Tune up	Target MPR
	Frequenc	y (MHz)		824.7	836.5	848.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	23.19	23.22	23.42		
1.4	QPSK	1	2	23.22	23.30	23.36	1	
1.4	QPSK	1	5	23.29	23.20	23.30	24.50	0
1.4	QPSK	3	0	23.21	23.25	23.44	24.50	0
1.4	QPSK	3	1	23.30	23.29	23.45	1	
1.4	QPSK	3	2	23.25	23.26	23.51	1	
1.4	QPSK	6	0	22.20	22.06	22.27	23.50	0-1
1.4	16QAM	1	0	22.90	23.05	23.15		
1.4	16QAM	1	2	22.69	22.75	22.90		
1.4	16QAM	1	5	22.91	22.77	22.74	22.50	0-1
1.4	16QAM	3	0	22.25	22.19	22.42	23.50	0-1
1.4	16QAM	3	1	22.40	22.32	22.50		
1.4	16QAM	3	2	22.30	22.28	22.28		
1.4	16QAM	6	0	21.30	21.24	21.26	22.50	0-2

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### <LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune up	MPR
	Cha	nnel		23060	23095	23130		(dB)
	Frequenc			704	707.5	711	Tune up Limit (dBm)  24.00  23.00  23.00  Tune up Limit (dBm)  24.00  23.00  23.00	
10	QPSK	1	0	22.88	22.77	23.12		
10	QPSK	1	24	22.96	23.06	<b>23.31</b>	24.00	0
10	QPSK	1	49	22.94	22.83	23.09		
10	QPSK	25	0	21.82	22.06	22.06		
10	QPSK	25	12	22.06	22.17	22.25	00.00	0.4
10	QPSK	25	24	22.02	22.14	21.96	23.00	0-1
10	QPSK	50	0	21.93	21.95	21.98		
10	16QAM	1	0	22.30	22.41	22.72		
10	16QAM	1	24	22.45	22.45	22.35	23.00	0-1
10	16QAM	1	49	22.44	22.77	22.14		
10	16QAM	25	0	20.67	21.06	20.98		
10	16QAM	25	12	20.89	21.11	21.25	22.00	0.0
10	16QAM	25	24	21.10	20.90	20.98	22.00	0-2
10	16QAM	50	0	20.97	21.05	21.01		
	Cha	nnel		23035	23095	23155		MPR
	Frequenc	cy (MHz)		701.5	707.5	713.5		(dB)
5	QPSK	1	0	22.61	22.86	23.01		
5	QPSK	1	12	22.44	22.79	23.03	24.00	0
5	QPSK	1	24	22.82	23.05	22.78		
5	QPSK	12	0	21.91	21.89	21.76		
5	QPSK	12	6	21.58	21.94	21.72	23.00	0-1
5	QPSK	12	11	21.84	21.87	22.02	23.00	0-1
5	QPSK	25	0	22.13	21.97	21.65		
5	16QAM	1	0	22.00	22.53	22.67		
5	16QAM	1	12	22.29	22.32	22.66	23.00	0-1
5	16QAM	1	24	22.22	22.56	22.23		
5	16QAM	12	0	20.97	21.01	21.11		
5	16QAM	12	6	20.43	21.00	20.58	22.00	0-2
5	16QAM	12	11	20.72	21.11	20.89	22.00	0-2
5	16QAM	25	0	20.99	20.85	20.67		

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	Cha	nnel		23025	23095	23165	Tune up	MPR
	Frequenc	cy (MHz)		700.5	707.5	714.5	Limit (dBm)	(dB)
3	QPSK	1	0	22.92	23.05	22.85		
3	QPSK	1	7	22.87	23.02	22.95	24.00	0
3	QPSK	1	14	22.74	22.81	23.20		
3	QPSK	8	0	22.23	21.96	21.67		
3	QPSK	8	4	21.92	22.18	21.71	23.00	0-1
3	QPSK	8	7	21.97	21.81	22.32	23.00	0-1
3	QPSK	15	0	21.86	21.99	21.68		
3	16QAM	1	0	22.54	22.36	22.20		
3	16QAM	1	7	22.34	22.42	22.45	23.00	0-1
3	16QAM	1	14	22.40	22.20	22.43		
3	16QAM	8	0	21.32	21.20	21.28		
3	16QAM	8	4	20.97	21.14	21.33	22.00	0-2
3	16QAM	8	7	20.83	21.43	21.43	22.00	0-2
3	16QAM	15	0	20.84	20.95	20.57		
	Cha	nnel		23017	23095	23173	Tune up	Target MPR
	Frequenc	cy (MHz)		699.7	707.5	715.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	22.91	22.94	23.09		
1.4	QPSK	1	2	22.93	23.00	23.07		
1.4	QPSK	1	5	22.88	22.80	22.76	24.00	0
1.4	QPSK	3	0	22.94	23.02	22.97	24.00	0
1.4	QPSK	3	1	22.78	22.84	22.79		
1.4	QPSK	3	2	22.81	23.04	23.02		
1.4	QPSK	6	0	22.00	21.99	21.90	23.00	0-1
1.4	16QAM	1	0	22.89	22.38	22.08		
1.4	16QAM	1	2	22.45	22.37	22.17		
1.4	16QAM	1	5	22.10	22.22	22.12	23.00	0-1
1.4	16QAM	3	0	22.55	22.26	22.25	23.00	0-1
1.4	16QAM	3	1	21.89	22.09	21.98		
1.4	16QAM	3	2	21.96	22.21	22.01		
1.4	16QAM	6	0	21.39	21.10	20.81	22.00	0-2

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## <LTE Band 17>

				_	_	_		
BW		RB	RB	Power	Power	Power		
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR
	Cha	an al		Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)
	Cha			23780	23790	23800	(dBm)	,
4.0	Frequen		0	709	710	711		
10	QPSK	1	0	23.01	23.29	23.25		
10	QPSK	1	24	23.18	<mark>23.38</mark>	23.29	24.00	0
10	QPSK	1	49	23.05	22.97	23.08		
10	QPSK	25	0	22.04	22.12	22.09		
10	QPSK	25	12	22.01	21.92	21.78	23.00	0-1
10	QPSK	25	24	22.03	21.96	21.77	20.00	0 1
10	QPSK	50	0	22.14	22.16	22.00		
10	16QAM	1	0	22.32	21.86	22.08		
10	16QAM	1	24	22.10	21.72	21.63	23.00	0-1
10	16QAM	1	49	22.66	22.17	22.06		
10	16QAM	25	0	21.13	21.14	21.33		
10	16QAM	25	12	21.05	21.26	21.24	00.00	0.0
10	16QAM	25	24	21.23	21.29	20.83	22.00	0-2
10	16QAM	50	0	21.13	21.09	21.02		
	Cha	nnel		23755	23790	23825	Tune up	MPR
	Frequen	cy (MHz)		706.5	710	713.5	Limit (dBm)	(dB)
5	QPSK	1	0	23.00	23.06	23.11		
5	QPSK	1	12	22.91	23.07	23.03	24.00	0
5	QPSK	1	24	22.98	23.02	23.11		
5	QPSK	12	0	22.05	21.85	22.09		
5	QPSK	12	6	22.05	22.14	21.98		
5	QPSK	12	11	22.13	21.98	21.93	23.00	0-1
5	QPSK	25	0	22.04	22.11	21.77		
5	16QAM	1	0	22.22	22.17	21.87		
5	16QAM	1	12	22.17	22.17	22.17	23.00	0-1
5	16QAM	1	24	22.51	22.45	22.66		
5	16QAM	12	0	21.02	20.92	21.04		
5	16QAM	12	6	21.13	21.04	21.25		
5	16QAM	12	11	21.13	20.94	20.90	22.00	0-2
5	16QAM	25	0	21.15	20.83	20.69		
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### <LTE Band 26>

<lie ban<="" th=""><th><u>u 20&gt;</u></th><th></th><th></th><th>Dower</th><th>Dower</th><th>Dower</th><th></th><th></th></lie>	<u>u 20&gt;</u>			Dower	Dower	Dower		
BW	Modulation	RB	RB	Power Low	Power Middle	Power High	Tungun	
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Tune up Limit	MPR
	Cha	nnel		26765	26865	26965	(dBm)	(dB)
	Frequen			821.5	831.5	841.5	(aBiii)	
15	QPSK	1	0	23.10	23.27	23.17		
15	QPSK	1	37	23.14	23.28	23.45	24.00	0
15	QPSK	1	74	23.12	23.25	23.12		ŭ
15	QPSK	36	0	21.86	22.05	22.13		
15	QPSK	36	18	21.97	22.02	22.19	-	
15	QPSK	36	37	22.00	22.08	22.21	23.00	0-1
15	QPSK	75	0	21.91	22.02	22.19	-	
15	16QAM	1	0	21.99	22.11	22.35		
15	16QAM	1	37	22.01	22.16	22.38	23.00	0-1
15	16QAM	1	74	22.08	22.27	22.22	20.00	0 1
15	16QAM	36	0	20.87	21.15	21.11		
15	16QAM	36	18	21.00	21.11	21.15	-	
15	16QAM	36	37	21.00	21.17	21.13	22.00	0-2
15	16QAM	75	0	21.02	21.14	21.17	-	
15	Cha		U	26740	26865	26990	Tune up	
							Limit	MPR
	Frequen	cy (MHz)		819	831.5	844	(dBm)	(dB)
10	QPSK	1	0	22.86	23.09	23.23		
10	QPSK	1	24	23.12	23.07	23.40	24.00	0
10	QPSK	1	49	23.00	23.01	22.78		
10	QPSK	25	0	21.91	22.06	22.14		
10	QPSK	25	12	22.03	22.01	22.16	00.00	0.4
10	QPSK	25	24	21.88	22.10	22.19	23.00	0-1
10	QPSK	50	0	21.91	22.04	22.13		
10	16QAM	1	0	21.93	22.50	22.96		
10	16QAM	1	24	22.22	22.37	22.98	23.00	0-1
10	16QAM	1	49	22.22	22.62	22.34	-	
10	16QAM	25	0	20.93	21.00	21.19		
10	16QAM	25	12	21.04	20.97	21.18	00.00	0.0
10	16QAM	25	24	20.95	21.11	21.20	22.00	0-2
10	16QAM	50	0	20.91	21.03	21.11		
	Cha	nnel		26715	26865	27015	Tune up	MPR
	Frequen	cy (MHz)		816.5	831.5	846.5	Limit (dBm)	(dB)
5	QPSK	1	0	22.91	23.20	23.29		
5	QPSK	1	12	22.77	22.90	23.40	24.00	0
5	QPSK	1	24	23.08	22.97	22.98		
5	QPSK	12	0	21.90	21.86	22.16		
5	QPSK	12	6	21.97	22.02	22.27	00.00	2.4
5	QPSK	12	11	22.04	21.99	22.18	23.00	0-1
5	QPSK	25	0	21.91	21.96	22.28		
5	16QAM	1	0	22.48	22.57	22.68		
5	16QAM	1	12	22.71	22.56	22.35	23.00	0-1
5	16QAM	1	24	22.57	22.47	22.48		
5	16QAM	12	0	20.93	20.91	21.13		
5	16QAM	12	6	20.84	21.15	21.24		
5	16QAM	12	11	21.02	20.97	21.26	22.00	0-2
5	16QAM	25	0	21.06	21.00	21.24		
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	Cha	nnel		26705	26865	27025	Tune up	MPR
	Frequenc	cy (MHz)		815.5	831.5	847.5	Limit (dBm)	(dB)
3	QPSK	1	0	23.07	22.97	23.06		
3	QPSK	1	7	22.98	23.14	23.21	24.00	0
3	QPSK	1	14	23.07	22.87	22.95		
3	QPSK	8	0	21.87	22.00	22.18		
3	QPSK	8	4	21.91	22.16	22.18	23.00	0-1
3	QPSK	8	7	22.00	22.03	22.18	23.00	0-1
3	QPSK	15	0	21.88	22.02	22.20		
3	16QAM	1	0	22.47	22.38	22.39		
3	16QAM	1	7	22.66	22.38	22.48	23.00	0-1
3	16QAM	1	14	22.13	22.54	22.16		
3	16QAM	8	0	21.03	21.14	21.34		
3	16QAM	8	4	20.95	21.08	21.36	22.00	0-2
3	16QAM	8	7	20.93	21.06	21.23	22.00	0-2
3	16QAM	15	0	20.86	20.99	21.17		
	Cha	nnel		26697	26865	27033	Tune up	MPR
	Frequenc	cy (MHz)		814.7	831.5	848.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	23.08	23.11	23.26		
1.4	QPSK	1	2	22.89	23.24	23.28		
1.4	QPSK	1	5	23.10	22.98	23.17	24.00	0
1.4	QPSK	3	0	22.96	23.05	23.16	24.00	0
1.4	QPSK	3	1	23.01	23.09	23.15		
1.4	QPSK	3	2	22.92	23.00	23.20		
1.4	QPSK	6	0	21.85	21.95	22.05	23.00	0-1
1.4	16QAM	1	0	22.69	22.53	22.71		
1.4	16QAM	1	2	22.13	22.25	22.59		
1.4	16QAM	1	5	22.78	22.63	22.54	23.00	0-1
1.4	16QAM	3	0	21.87	21.94	22.34	23.00	0-1
1.4	16QAM	3	1	21.82	22.06	22.23		
1.4	16QAM	3	2	22.04	21.95	22.23		
1.4	16QAM	6	0	20.89	21.11	21.15	22.00	0-2

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## <LTE Band 25>

<lie dali<="" th=""><th></th><th>DD</th><th>DD</th><th>Power</th><th>Power</th><th>Power</th><th></th><th></th></lie>		DD	DD	Power	Power	Power		
BW [MHz]	Modulation	RB Size	RB Offset	Low	Middle	High	Tune up	MDD
[IVII IZ]		Size	Oliset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	MPR
	Cha			26140	26340	26590	(dBm)	(dB)
	Frequen	cy (MHz)		1860	1880	1905		
20	QPSK	1	0	23.80	23.74	<b>23.84</b>		
20	QPSK	1	49	23.20	23.12	23.27	24.50	0
20	QPSK	1	99	23.29	23.43	23.18		
20	QPSK	50	0	22.51	22.36	22.54		
20	QPSK	50	24	22.24	22.24	22.38	23.50	0-1
20	QPSK	50	49	22.25	22.24	22.18	23.50	0-1
20	QPSK	100	0	22.50	22.34	22.53		
20	16QAM	1	0	23.36	23.39	23.40		
20	16QAM	1	49	22.67	22.62	22.70	23.50	0-1
20	16QAM	1	99	22.76	22.93	22.72		
20	16QAM	50	0	21.56	21.39	21.57		
20	16QAM	50	24	21.25	21.21	21.30	00.50	0.0
20	16QAM	50	49	21.29	21.20	21.23	22.50	0-2
20	16QAM	100	0	21.54	21.32	21.37		
	Cha			26115	26340	26615	Tune up	MDD
	Frequen	cy (MHz)		1857.5	1880	1907.5	Limit (dBm)	MPR (dB)
15	QPSK	1	0	23.67	23.63	23.74		
15	QPSK	1	37	23.36	22.98	23.26	24.50	0
15	QPSK	1	74	23.16	23.14	23.23		
15	QPSK	36	0	22.37	22.12	22.44		
15	QPSK	36	18	22.09	21.98	22.22	1	
15	QPSK	36	37	22.05	22.12	22.13	23.50	0-1
15	QPSK	75	0	22.20	22.11	22.29		
15	16QAM	1	0	23.01	22.93	23.23		
15	16QAM	1	37	22.96	22.72	22.76	23.50	0-1
15	16QAM	1	74	22.54	22.83	22.57		
15	16QAM	36	0	21.41	21.09	21.36		
15	16QAM	36	18	21.23	21.13	21.25		
15	16QAM	36	37	21.08	21.06	21.08	22.50	0-2
15	16QAM	75	0	21.43	21.13	21.31		
	Cha			26090	26340	26640	Tune up	MDD
		cy (MHz)		1855	1880	1910	Limit (dBm)	MPR (dB)
10	QPSK	1	0	23.39	23.18	23.41		
10	QPSK	1	24	22.96	22.86	23.00	24.50	0
10	QPSK	1	49	23.16	23.09	23.10		
10	QPSK	25	0	22.32	22.07	22.35		
10	QPSK	25	12	22.21	22.02	22.17	00.55	
10	QPSK	25	24	21.93	22.03	22.10	23.50	0-1
10	QPSK	50	0	22.23	22.00	22.24		
10	16QAM	1	0	22.76	22.65	23.24		
10	16QAM	1	24	22.63	22.17	22.49	23.50	0-1
10	16QAM	1	49	22.56	22.39	22.21	_5.55	<b>V</b>
10	16QAM	25	0	21.34	21.01	21.44		
10	16QAM	25	12	21.22	21.07	21.29		
10	16QAM	25	24	20.97	21.01	21.01	22.50	0-2
10	16QAM	50	0	21.23	21.03	21.40	1	
10	10Q/tivi	- 50		21.20	21.00	21.70		

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	Cha	nnel		26065	26340	26665	Tune up	MPR
	Frequen	cy (MHz)		1852.5	1880	1912.5	Limit (dBm)	(dB)
5	QPSK	1	0	23.10	22.97	23.15	(aBiii)	
5	QPSK	1	12	23.11	23.01	23.13	24.50	0
5	QPSK	1	24	23.25	23.07	22.97		-
5	QPSK	12	0	22.24	21.96	22.15		
5	QPSK	12	6	22.20	22.00	22.09		
5	QPSK	12	11	22.13	22.01	22.01	23.50	0-1
5	QPSK	25	0	22.26	21.97	22.16		
5	16QAM	1	0	22.79	22.38	22.57		
5	16QAM	1	12	22.57	22.45	22.55	23.50	0-1
5	16QAM	1	24	22.48	22.51	22.35		<b>.</b>
5	16QAM	12	0	21.17	20.93	21.14		
5	16QAM	12	6	21.13	20.95	21.09		
5	16QAM	12	11	21.15	20.97	21.01	22.50	0-2
5	16QAM	25	0	21.25	21.04	20.99		
<u> </u>		nnel	J	26055	26340	26675	Tune up	
		cy (MHz)		1851.5	1880	1913.5	Limit	MPR (dB)
3	QPSK	1	0	23.14	23.16	23.07	(dBm)	, ,
3	QPSK	1	7	23.32	23.06	23.01	24.50	0
3	QPSK	1	14	23.35	23.10	23.14	24.50	U
3	QPSK	8	0	22.18	22.78	21.99		
3	QPSK	8	4	22.10	22.76	22.05		
3	QPSK	8	7	22.12	22.96	22.03	23.50	0-1
3	QPSK	15	0	22.05	21.92	21.96		
3	16QAM	1	0	22.72	21.92	22.57		
3	16QAM	1	7	22.72	21.78	22.37	23.50	0-1
3	16QAM	1	14	22.75	22.18	21.89	25.50	0-1
3	16QAM	8	0	21.32	22.18	21.12		
3	16QAM	8	4	21.23	22.02	21.12		
3	16QAM	8	7	21.25	22.02	21.10	22.50	0-2
3	16QAM	15	0	21.13	20.82	21.00		
J	<u> </u>	nnel	U	26047	26340	26683	Tune up	
		cy (MHz)		1850.7	1880	1914.3	Limit (dBm)	MPR (dB)
1.4	QPSK	1	0	23.40	23.16	22.93		
1.4	QPSK	1	2	23.49	23.06	22.87		
1.4	QPSK	1	5	23.37	23.10	23.04	0.4.75	
1.4	QPSK	3	0	23.37	22.78	22.90	24.50	0
1.4	QPSK	3	1	23.39	22.95	22.99		
1.4	QPSK	3	2	23.09	22.96	22.79		
1.4	QPSK	6	0	22.09	21.92	21.89	23.50	0-1
1.4	16QAM	1	0	21.98	21.90	21.77	=5.55	
1.4	16QAM	1	2	22.12	21.78	22.00		
1.4	16QAM	1	5	22.30	22.18	21.78		
1.4	16QAM	3	0	22.50	22.08	22.15	23.50	0-1
1.4	16QAM	3	1	22.08	22.02	22.20		
1.4	16QAM	3	2	22.32	22.03	21.75		
1.4	16QAM	6	0	21.08	20.82	20.84	22.50	0-2
	100071111		<b>-</b>	21.00	20.02	20.01		V L

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### **General Note:**

Per KDB 248227 D01v02r01, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.

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

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## <2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		17.22	18.50	
	802.11b	CH 6	2437	1Mbps	16.26	17.00	98.88
		CH 11	2462		17.86	18.50	
		CH 1	2412		15.94	16.00	
2.4GHz WLAN	802.11g	CH 6	2437	6Mbps	14.66	15.00	95.43
		CH 11	2462		16.08	17.00	
		CH 1	2412		15.69	16.00	
	802.11n-HT20	CH 6	2437	MCS0	14.43	15.00	95.28
		CH 11	2462		15.88	16.00	
		CH 3	2422		14.56	15.00	
	802.11n-HT40	CH 6	2437	MCS0	13.27	14.00	90.36
		CH 9	2452		13.33	14.00	

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### <5.2GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 36	5180		14.45	15.50	
	802.11a	CH 40	5200	CMbpo	14.87	15.50	94.83
	002.11a	CH 44	5220	6Mbps	15.10	16.00	94.03
		CH 48	5240		15.43	16.00	
		CH 36	5180		14.79	15.50	
	802.11n-HT20	CH 40	5200	MCS0	14.83	15.50	95.26
5.2GHz	002.11II-H120	CH 44	5220	IVICSU	14.85	15.50	95.20
WLAN		CH 48	5240		15.17	15.50	
	802.11n-HT40	CH 38	5190	MCS0	14.23	15.00	90.82
	002.11II-H140	CH 46	5230	IVICSU	14.95	15.00	90.62
		CH 36	5180		14.09	15.00	
	802.11ac-VHT20	CH 40	5200	MCS0	14.54	15.00	95.09
	802.11ac-VH120	CH 44	5220	IVICSU	14.76	15.00	95.09
		CH 48	5240		15.10	16.00	
	802.11ac-VHT40	CH 38	5190	14000	14.20	15.00	00.10
	002.11ac-vn140	CH 46	5230	MCS0	14.86	15.00	90.19
	802.11ac-VHT80	CH 42	5210	MCS0	12.45	13.00	82.55

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## <5.3GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 52	5260		16.26	17.00	
	802.11a	CH 56	5280	CMbaa	16.17	17.00	94.83
	802.11a	CH 60	5300	6Mbps	16.35	17.00	94.83
		CH 64	5320		16.47	17.00	
		CH 52	5260		15.33	16.00	
	802.11n-HT20	CH 56	5280	MCCO	15.43	16.00	95.26
5.3GHz	802.11n-H120	CH 60	5300	MCS0	16.06	16.50	90.20
WLAN		CH 64	5320		16.20	16.50	
	802.11n-HT40	CH 54	5270	MCS0	14.29	15.00	90.82
	802.11n-H140	CH 62	5310	MICSU	14.48	15.00	90.82
		CH 52	5260		15.18	16.00	
	000 44 \/  IT00	CH 56	5280	MCS0	15.23	16.00	05.00
	802.11ac-VHT20	CH 60	5300	MICSU	15.89	16.50	95.09
		CH 64	5320		16.01	16.50	
	902 44 co VIIIT 40	CH 54	5270		14.19	15.00	00.40
	802.11ac-VHT40	CH 62	5310	MCS0	14.47	15.00	90.19
	802.11ac-VHT80	CH 58	5290	MCS0	13.30	14.00	82.55

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## <5.5GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 100	5500		15.29	15.50	
		CH 116	5580		14.91	15.50	
	802.11a	CH 124	5620	6Mbps	14.65	15.50	94.83
		CH 132	5660		14.67	15.50	
		CH 140	5700		14.62	15.50	
		CH 100	5500		14.93	15.00	
		CH 116	5580		13.88	14.50	
	802.11n-HT20	CH 124	5620	MCS0	13.71	14.50	95.26
		CH 132	5660		13.56	14.50	
		CH 140	5700		13.45	14.50	
5.5GHz		CH 102	5510		14.81	15.00	
WLAN	802.11n-HT40	CH 110	5550	MCS0	14.65	15.00	90.82
	002.1111-111-40	CH 126	5630	IVICSO	14.11	15.00	
		CH 134	5670		13.40	14.00	
		CH 100	5500		14.90	15.00	
		CH 116	5580		13.85	14.00	
	802.11ac-VHT20	CH 124	5620	MCS0	13.74	14.00	95.09
		CH 132	5660		13.56	14.00	
		CH 140	5700		13.36	14.00	
		CH 102	5510		14.78	15.00	
	802.11ac-VHT40	CH 110	5550	MCS0	14.67	15.00	90.19
	002.11ac-VH140	CH 126	5630		14.21	15.00	90.19
		CH 134	5670		13.46	14.00	
	902 11ac V/LIT92	CH 106	5530	MCS0	12.35	13.00	92.55
	802.11ac-VHT80	CH 122	5610	IVICSU	11.96	12.00	82.55

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## <5.8GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 149	5745		16.01	16.50	
	802.11a	CH 157	5785	MCS0	15.99	16.50	94.83
		CH 165	5825		15.53	16.50	
		CH 149	5745		15.82	16.00	
	802.11n-HT20	CH 157	5785	MCS0	15.76	16.00	95.26
5.8GHz WLAN		CH 165	5825		15.27	16.00	
	802.11n-HT40	CH 151	5755	MCS0	14.88	15.00	90.82
	602.11N-H140	CH 159	5795	IVICSU	14.70	15.00	90.62
		CH 149	5745		15.80	16.00	
	802.11ac-VHT20	CH 157	5785	MCS0	15.75	16.00	95.09
		CH 165	5825		15.21	16.00	
	902 11aa V/HT40	CH 151	5755	MCS0	14.87	15.00	90.19
	002.11aC-VH140	802.11ac-VHT40 CH 159 5795	IVICSU	14.66	15.00	90.19	
	802.11ac-VHT80	CH 155	5775	MCS0	12.16	13.00	82.55

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# 13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)					
iviode Barid	Bluetooth v3.0+EDR Bluetooth v4.1 LE					
2.4GHz Bluetooth	10.0	1.0				

### 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)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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

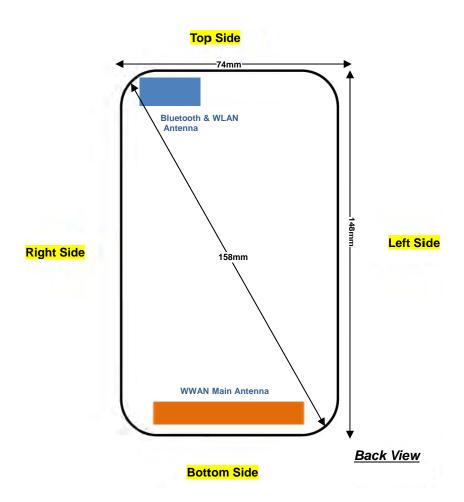
Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
10.0	10	2.48	1.6

### Note:

Per KDB 447498 D01v05r02, the test exclusion threshold is 1.6 which is <= 3, SAR testing is not required.

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# 14. Antenna Location



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	Distanc	e of the Antenna	to the EUT surfac	ce/edge									
Antennas	Antennas Back Front Top Side Bottom Side Right Side Left Side												
WWAN Main	≤ 25mm	≤ 25mm	133mm	≤ 25mm	≤ 25mm	≤ 25mm							
BT&WLAN ≤ 25mm ≤ 25mm 130mm ≤ 25mm 45mm													

	Po	ositions for SAR to	ests; Hotspot mod	de							
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side					
WWAN Main	Yes	Yes	No	Yes	Yes	Yes					
BT&WLAN Yes Yes No Yes No											

### **General Note:**

Referring to KDB 941225 D06 v02, when the overall device length and width are ≥ 9cm\*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge

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## 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
- 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.

### **GSM Note:**

- 1. 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 was set in GPRS (4Tx slots) for GSM850/GSM1900.
- 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 was set in GPRS (4Tx slots) for GSM850/GSM1900.

### **UMTS Note:**

- 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".
- 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 / DC-HSDPA 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 / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

### **CMDA Note:**

- Per KDB 941225 D01v03, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
- 2. Per KDB 941225 D01v03, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
- 3. Per KDB 941225 D01v03, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

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## FCC SAR Test Report

### LTE Note:

1. 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.

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- 2. Per KDB 941225 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 3. 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.
- 4. 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.
- 5. 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.

### **WLAN Note:**

- 1. Per KDB 248227 D01v02r01, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- 2. Per KDB 248227 D01v02r01, for U-NII-1 Head and Body-worn SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
- 3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- 4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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# 15.1 <u>Head SAR</u>

## <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(4 Tx slots)	Right Cheek	128	824.2	28.86	29.00	1.033	0.02	0.649	<mark>0.670</mark>
	GSM850	GPRS(4 Tx slots)	Right Tilted	128	824.2	28.86	29.00	1.033	0.01	0.340	0.351
	GSM850	GPRS(4 Tx slots)	Left Cheek	128	824.2	28.86	29.00	1.033	0.18	0.589	0.608
	GSM850	GPRS(4 Tx slots)	Left Tilted	128	824.2	28.86	29.00	1.033	0.14	0.321	0.332
	GSM1900	GPRS(4 Tx slots)	Right Cheek	512	1850.2	27.16	27.50	1.081	0.03	0.218	0.236
	GSM1900	GPRS(4 Tx slots)	Right Tilted	512	1850.2	27.16	27.50	1.081	0.02	0.188	0.203
02	GSM1900	GPRS(4 Tx slots)	Left Cheek	512	1850.2	27.16	27.50	1.081	-0.07	0.475	<mark>0.514</mark>
	GSM1900	GPRS(4 Tx slots)	Left Tilted	512	1850.2	27.16	27.50	1.081	-0.13	0.105	0.114

Report No. : FA582501

## <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 12.2Kbps	Right Cheek	4233	846.6	24.53	25.00	1.114	0.16	0.492	<mark>0.548</mark>
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	4233	846.6	24.53	25.00	1.114	0.04	0.266	0.296
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4233	846.6	24.53	25.00	1.114	0.18	0.443	0.494
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	4233	846.6	24.53	25.00	1.114	0.1	0.211	0.235
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1513	1752.6	24.68	25.00	1.076	0.06	0.231	0.249
	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	1513	1752.6	24.68	25.00	1.076	-0.02	0.200	0.215
04	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1513	1752.6	24.68	25.00	1.076	0.17	0.573	<mark>0.617</mark>
	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	1513	1752.6	24.68	25.00	1.076	-0.06	0.130	0.140
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9400	1880	24.25	24.50	1.059	0.05	0.334	0.354
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	9400	1880	24.25	24.50	1.059	0.08	0.310	0.328
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9400	1880	24.25	24.50	1.059	-0.02	0.790	0.837
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	9400	1880	24.25	24.50	1.059	-0.06	0.240	0.254
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9262	1852.4	23.86	24.50	1.159	-0.01	0.738	0.855
05	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9538	1907.6	23.93	24.50	1.140	-0.07	0.793	0.904

### <CDMA 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)
	CDMA2000 BC0	RC3 SO55	Right Cheek	1013	824.7	24.46	25.00	1.132	0.03	0.275	0.311
	CDMA2000 BC0	RC3 SO55	Right Tilted	1013	824.7	24.46	25.00	1.132	-0.11	0.246	0.279
06	CDMA2000 BC0	RC3 SO55	Left Cheek	1013	824.7	24.46	25.00	1.132	0.09	0.279	<mark>0.316</mark>
	CDMA2000 BC0	RC3 SO55	Left Tilted	1013	824.7	24.46	25.00	1.132	0.05	0.180	0.204
	CDMA2000 BC1	RC3 SO55	Right Cheek	1175	1908.75	24.65	25.00	1.084	0.03	0.322	0.349
	CDMA2000 BC1	RC3 SO55	Right Tilted	1175	1908.75	24.65	25.00	1.084	-0.01	0.240	0.260
07	CDMA2000 BC1	RC3 SO55	Left Cheek	1175	1908.75	24.65	25.00	1.084	-0.17	0.656	<mark>0.711</mark>
	CDMA2000 BC1	RC3 SO55	Left Tilted	1175	1908.75	24.65	25.00	1.084	0.03	0.193	0.209

SPORTON INTERNATIONAL (SHENZHEN) INC.



# FCC SAR Test Report

## <LTE SAR>

Plot		BW		RB	RB	Test		Freq.	Average	Tune-Up	Tune-up	Power	Measured	Reported
No.	Band	(MHz)	Modulation	Size	offset	Position	Ch.	(MHz)	Power (dBm)	Limit (dBm)	Scaling Factor	Drift (dB)	1g SAR (W/kg)	1g SAR (W/kg)
	LTE Band 12	10M	QPSK	1	24	Right Cheek	23130	711	23.31	24.00	1.172	0.01	0.126	0.148
	LTE Band 12	10M	QPSK	1	24	Right Tilted	23130	711	23.31	24.00	1.172	0.05	0.049	0.057
08	LTE Band 12	10M	QPSK	1	24	Left Cheek	23130	711	23.31	24.00	1.172	0.07	0.153	<mark>0.179</mark>
	LTE Band 12	10M	QPSK	1	24	Left Tilted	23130	711	23.31	24.00	1.172	-0.07	0.091	0.107
	LTE Band 12	10M	QPSK	25	12	Right Cheek	23130	711	22.25	23.00	1.189	0.04	0.096	0.114
	LTE Band 12	10M	QPSK	25	12	Right Tilted	23130	711	22.25	23.00	1.189	0.09	0.037	0.044
	LTE Band 12	10M	QPSK	25	12	Left Cheek	23130	711	22.25	23.00	1.189	-0.09	0.117	0.139
	LTE Band 12	10M	QPSK	25	12	Left Tilted	23130	711	22.25	23.00	1.189	-0.02	0.058	0.069
	LTE Band 17	10M	QPSK	1	24	Right Cheek	23790	710	23.38	24.00	1.153	0.07	0.127	0.146
	LTE Band 17	10M	QPSK	1	24	Right Tilted	23790	710	23.38	24.00	1.153	0.13	0.09	0.104
09	LTE Band 17	10M	QPSK	1	24	Left Cheek	23790	710	23.38	24.00	1.153	-0.08	0.15	0.173
	LTE Band 17	10M	QPSK	1	24	Left Tilted	23790	710	23.38	24.00	1.153	-0.09	0.075	0.087
	LTE Band 17	10M	QPSK	25	0	Right Cheek	23790	710	22.12	23.00	1.225	0.01	0.097	0.119
	LTE Band 17	10M	QPSK	25	0	Right Tilted	23790	710	22.12	23.00	1.225	0.18	0.071	0.087
	LTE Band 17	10M	QPSK	25	0	Left Cheek	23790	710	22.12	23.00	1.225	-0.06	0.116	0.142
	LTE Band 17	10M	QPSK	25	0	Left Tilted	23790	710	22.12	23.00	1.225	-0.08	0.06	0.073
10	LTE Band 5	10M	QPSK	1	0	Right Cheek	20600	844	23.53	24.50	1.250	0.06	0.296	0.370
	LTE Band 5	10M	QPSK	1	0	Right Tilted	20600	844	23.53	24.50	1.250	0.15	0.163	0.204
	LTE Band 5	10M	QPSK	1	0	Left Cheek	20600	844	23.53	24.50	1.250	0.02	0.295	0.369
	LTE Band 5	10M	QPSK	1	0	Left Tilted	20600	844	23.53	24.50	1.250	0.07	0.148	0.185
	LTE Band 5	10M	QPSK	25	0	Right Cheek	20600	844	22.34	23.50	1.306	0.07	0.223	0.291
	LTE Band 5	10M	QPSK	25	0	Right Tilted	20600	844	22.34	23.50	1.306	0.04	0.129	0.168
	LTE Band 5	10M	QPSK	25	0	Left Cheek	20600	844	22.34	23.50	1.306	-0.02	0.229	0.299
	LTE Band 5	10M	QPSK	25	0	Left Tilted	20600	844	22.34	23.50	1.306	0.07	0.133	0.174
11	LTE Band 26	15M	QPSK	1	37	Right Cheek	26965	841.5	23.45	24.00	1.135	0.01	0.284	0.322
	LTE Band 26	15M	QPSK	1	37	Right Tilted	26965	841.5	23.45	24.00	1.135	0.05	0.160	0.182
	LTE Band 26	15M	QPSK	1	37	Left Cheek	26965	841.5	23.45	24.00	1.135	-0.07	0.282	0.320
	LTE Band 26	15M	QPSK	1	37	Left Tilted	26965	841.5	23.45	24.00	1.135	-0.02	0.174	0.197
	LTE Band 26	15M	QPSK	36	37	Right Cheek	26965	841.5	22.21	23.00	1.199	0.01	0.231	0.277
	LTE Band 26	15M	QPSK	36	37	Right Tilted	26965	841.5	22.21	23.00	1.199	0.08	0.128	0.154
	LTE Band 26	15M	QPSK	36	37	Left Cheek	26965	841.5	22.21	23.00	1.199	-0.04	0.223	0.267
	LTE Band 26	15M	QPSK	36	37	Left Tilted	26965	841.5	22.21	23.00	1.199	0.04	0.134	0.161
	LTE Band 4	20M	QPSK	1	0	Right Cheek	20300	1745	23.84	24.50	1.164	0.04	0.18	0.210
	LTE Band 4	20M	QPSK	1	0	Right Tilted	20300	1745	23.84	24.50	1.164	0.07	0.195	0.227
12	LTE Band 4	20M	QPSK	1	0	Left Cheek	20300	1745	23.84	24.50	1.164	0.07	0.444	<mark>0.517</mark>
	LTE Band 4	20M	QPSK	1	0	Left Tilted	20300	1745	23.84	24.50	1.164	0.04	0.129	0.150
	LTE Band 4	20M	QPSK	50	0	Right Cheek	20300	1745	22.47	23.50	1.268	0.01	0.137	0.174
	LTE Band 4	20M	QPSK	50	0	Right Tilted	20300	1745	22.47	23.50	1.268	0.05	0.145	0.184
	LTE Band 4	20M	QPSK	50	0	Left Cheek	20300	1745	22.47	23.50	1.268	-0.08	0.332	0.421
	LTE Band 4	20M	QPSK	50	0	Left Tilted	20300	1745	22.47	23.50	1.268	-0.08	0.095	0.120

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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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 2	20M	QPSK	1	0	Right Cheek	19100	1900	23.87	24.50	1.156	0.07	0.321	0.371
	LTE Band 2	20M	QPSK	1	0	Right Tilted	19100	1900	23.87	24.50	1.156	0.07	0.159	0.184
13	LTE Band 2	20M	QPSK	1	0	Left Cheek	19100	1900	23.87	24.50	1.156	0.06	0.534	<mark>0.617</mark>
	LTE Band 2	20M	QPSK	1	0	Left Tilted	19100	1900	23.87	24.50	1.156	0.05	0.175	0.202
	LTE Band 2	20M	QPSK	50	0	Right Cheek	19100	1900	22.55	23.50	1.245	0.08	0.238	0.296
	LTE Band 2	20M	QPSK	50	0	Right Tilted	19100	1900	22.55	23.50	1.245	0.04	0.117	0.146
	LTE Band 2	20M	QPSK	50	0	Left Cheek	19100	1900	22.55	23.50	1.245	-0.05	0.390	0.485
	LTE Band 2	20M	QPSK	50	0	Left Tilted	19100	1900	22.55	23.50	1.245	0.05	0.133	0.166
	LTE Band 25	20M	QPSK	1	0	Right Cheek	26590	1905	23.84	24.50	1.164	0.04	0.335	0.390
	LTE Band 25	20M	QPSK	1	0	Right Tilted	26590	1905	23.84	24.50	1.164	-0.01	0.166	0.193
14	LTE Band 25	20M	QPSK	1	0	Left Cheek	26590	1905	23.84	24.50	1.164	-0.08	0.543	<mark>0.632</mark>
	LTE Band 25	20M	QPSK	1	0	Left Tilted	26590	1905	23.84	24.50	1.164	0.08	0.183	0.213
	LTE Band 25	20M	QPSK	50	0	Right Cheek	26590	1905	22.54	23.50	1.247	0.05	0.246	0.307
	LTE Band 25	20M	QPSK	50	0	Right Tilted	26590	1905	22.54	23.50	1.247	0.08	0.125	0.156
	LTE Band 25	20M	QPSK	50	0	Left Cheek	26590	1905	22.54	23.50	1.247	-0.05	0.412	0.514
	LTE Band 25	20M	QPSK	50	0	Left Tilted	26590	1905	22.54	23.50	1.247	0.13	0.143	0.178

Report No. : FA582501

## <WLAN 2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)		Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b_1Mbps	Right Cheek	11	2462	17.86	18.50	1.159	98.88	1.011	0.07	0.13	0.152
	WLAN2.4GHz	802.11b_1Mbps	Right Tilted	11	2462	17.86	18.50	1.159	98.88	1.011	-0.08	0.106	0.124
15	WLAN2.4GHz	802.11b_1Mbps	Left Cheek	11	2462	17.86	18.50	1.159	98.88	1.011	0.02	0.403	0.472
	WLAN2.4GHz	802.11b_1Mbps	Left Tilted	11	2462	17.86	18.50	1.159	98.88	1.011	-0.08	0.366	0.429

### <WLAN 5GHz SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 5.3GHz	802.11a 6Mbps	Right Cheek	64	5320	16.47	17.00	1.130	94.83	1.054	0.01	0.013	0.015
	WLAN 5.3GHz	802.11a 6Mbps	Right Tilted	64	5320	16.47	17.00	1.130	94.83	1.054	0.02	0.01	0.012
16	WLAN 5.3GHz	802.11a 6Mbps	Left Cheek	64	5320	16.47	17.00	1.130	94.83	1.054	0.01	0.072	0.086
	WLAN 5.3GHz	802.11a 6Mbps	Left Tilted	64	5320	16.47	17.00	1.130	94.83	1.054	-0.01	0.048	0.057
	WLAN 5.5GHz	802.11a 6Mbps	Right Cheek	100	5500	15.29	15.50	1.049	94.83	1.054	0.01	0.054	0.060
	WLAN 5.5GHz	802.11a 6Mbps	Right Tilted	100	5500	15.29	15.50	1.049	94.83	1.054	0.15	0.038	0.042
17	WLAN 5.5GHz	802.11a 6Mbps	Left Cheek	100	5500	15.29	15.50	1.049	94.83	1.054	0.01	0.186	0.206
	WLAN 5.5GHz	802.11a 6Mbps	Left Tilted	100	5500	15.29	15.50	1.049	94.83	1.054	0.02	0.147	0.163
	WLAN 5.8GHz	802.11a 6Mbps	Right Cheek	149	5745	16.01	16.50	1.119	94.83	1.054	0.05	0.00158	0.002
	WLAN 5.8GHz	802.11a 6Mbps	Right Tilted	149	5745	16.01	16.50	1.119	94.83	1.054	-0.04	0.000335	0.000
18	WLAN 5.8GHz	802.11a 6Mbps	Left Cheek	149	5745	16.01	16.50	1.119	94.83	1.054	0.01	0.034	0.040
	WLAN 5.8GHz	802.11a 6Mbps	Left Tilted	149	5745	16.01	16.50	1.119	94.83	1.054	0.01	0.025	0.029



# 15.2 Hotspot SAR

## <GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Front	10	128	824.2	28.86	29.00	1.033	0.01	0.449	0.464
	GSM850	GPRS(4 Tx slots)	Back	10	128	824.2	28.86	29.00	1.033	-0.06	0.622	0.642
	GSM850	GPRS(4 Tx slots)	Left Side	10	128	824.2	28.86	29.00	1.033	-0.09	0.509	0.526
	GSM850	GPRS(4 Tx slots)	Right Side	10	128	824.2	28.86	29.00	1.033	-0.02	0.996	1.029
	GSM850	GPRS(4 Tx slots)	Bottom Side	10	128	824.2	28.86	29.00	1.033	-0.16	0.275	0.284
19	GSM850	GPRS(4 Tx slots)	Right Side	10	189	836.4	28.18	29.00	1.208	0.02	0.991	<b>1.197</b>
	GSM850	GPRS(4 Tx slots)	Right Side	10	251	848.8	28.46	29.00	1.132	-0.05	1.02	1.155
	GSM1900	GPRS(4 Tx slots)	Front	10	512	1850.2	27.16	27.50	1.081	0.04	0.413	0.447
	GSM1900	GPRS(4 Tx slots)	Back	10	512	1850.2	27.16	27.50	1.081	0.13	0.497	0.537
20	GSM1900	GPRS(4 Tx slots)	Left Side	10	512	1850.2	27.16	27.50	1.081	-0.11	0.559	0.605
	GSM1900	GPRS(4 Tx slots)	Right Side	10	512	1850.2	27.16	27.50	1.081	-0.02	0.052	0.056
	GSM1900	GPRS(4 Tx slots)	Bottom Side	10	512	1850.2	27.16	27.50	1.081	-0.09	0.558	0.603

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### <WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	10	4233	846.6	24.53	25.00	1.114	-0.05	0.455	0.507
	WCDMA Band V	RMC 12.2Kbps	Back	10	4233	846.6	24.53	25.00	1.114	0.07	0.457	0.509
	WCDMA Band V	RMC 12.2Kbps	Left Side	10	4233	846.6	24.53	25.00	1.114	-0.13	0.247	0.275
	WCDMA Band V	RMC 12.2Kbps	Right Side	10	4233	846.6	24.53	25.00	1.114	0.04	0.791	0.881
	WCDMA Band V	RMC 12.2Kbps	Bottom Side	10	4233	846.6	24.53	25.00	1.114	-0.08	0.381	0.425
21	WCDMA Band V	RMC 12.2Kbps	Right Side	10	4132	826.4	24.41	25.00	1.146	-0.13	0.848	0.971
	WCDMA Band V	RMC 12.2Kbps	Right Side	10	4182	836.4	24.48	25.00	1.127	-0.02	0.825	0.930
	WCDMA Band IV	RMC 12.2Kbps	Front	10	1513	1752.6	24.68	25.00	1.076	-0.09	0.599	0.645
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1513	1752.6	24.68	25.00	1.076	0.08	0.789	0.849
	WCDMA Band IV	RMC 12.2Kbps	Left Side	10	1513	1752.6	24.68	25.00	1.076	-0.07	0.791	0.851
	WCDMA Band IV	RMC 12.2Kbps	Right Side	10	1513	1752.6	24.68	25.00	1.076	-0.07	0.069	0.074
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	1513	1752.6	24.68	25.00	1.076	0.03	0.831	0.895
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1312	1712.4	24.42	25.00	1.143	0.04	0.809	0.925
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1413	1732.6	24.28	25.00	1.180	-0.01	0.696	0.822
	WCDMA Band IV	RMC 12.2Kbps	Left Side	10	1312	1712.4	24.42	25.00	1.143	-0.09	0.761	0.870
	WCDMA Band IV	RMC 12.2Kbps	Left Side	10	1413	1732.6	24.28	25.00	1.180	-0.05	0.541	0.639
22	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	1312	1712.4	24.42	25.00	1.143	0.04	0.844	<mark>0.965</mark>
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	1413	1732.6	24.28	25.00	1.180	-0.01	0.741	0.875
	WCDMA Band II	RMC 12.2Kbps	Front	10	9400	1880	24.25	24.50	1.059	-0.05	0.673	0.713
	WCDMA Band II	RMC 12.2Kbps	Back	10	9400	1880	24.25	24.50	1.059	-0.05	0.815	0.863
	WCDMA Band II	RMC 12.2Kbps	Left Side	10	9400	1880	24.25	24.50	1.059	0.05	1.06	1.123
	WCDMA Band II	RMC 12.2Kbps	Right Side	10	9400	1880	24.25	24.50	1.059	0.13	0.099	0.105
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	9400	1880	24.25	24.50	1.059	-0.01	0.986	1.044
	WCDMA Band II	RMC 12.2Kbps	Back	10	9262	1852.4	23.86	24.50	1.159	-0.02	0.736	0.853
	WCDMA Band II	RMC 12.2Kbps	Back	10	9538	1907.6	23.93	24.50	1.140	-0.02	0.923	1.052
	WCDMA Band II	RMC 12.2Kbps	Left Side	10	9262	1852.4	23.86	24.50	1.159	-0.04	0.736	0.853
	WCDMA Band II	RMC 12.2Kbps	Left Side	10	9538	1907.6	23.93	24.50	1.140	0.02	0.848	0.967
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	9262	1852.4	23.86	24.50	1.159	-0.04	0.945	1.095
23	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	9538	1907.6	23.93	24.50	1.140	-0.05	0.998	<mark>1.138</mark>

SPORTON INTERNATIONAL (SHENZHEN) INC.

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# FCC SAR Test Report

## <CDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA2000 BC0	RTAP 153.6Kbps	Front	10	1013	824.7	24.38	25.00	1.153	0.12	0.487	0.562
	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	1013	824.7	24.38	25.00	1.153	-0.15	0.451	0.520
	CDMA2000 BC0	RTAP 153.6Kbps	Left Side	10	1013	824.7	24.38	25.00	1.153	0.07	0.370	0.427
24	CDMA2000 BC0	RTAP 153.6Kbps	Right Side	10	1013	824.7	24.38	25.00	1.153	0.01	0.857	<mark>0.989</mark>
	CDMA2000 BC0	RTAP 153.6Kbps	Bottom Side	10	1013	824.7	24.38	25.00	1.153	0.12	0.229	0.264
	CDMA2000 BC0	RTAP 153.6Kbps	Right Side	10	384	836.52	24.25	25.00	1.189	0.06	0.814	0.967
	CDMA2000 BC0	RTAP 153.6Kbps	Right Side	10	777	848.31	24.30	25.00	1.175	-0.03	0.829	0.974
	CDMA2000 BC1	RTAP 153.6Kbps	Front	10	1175	1908.75	24.64	25.00	1.086	-0.01	0.683	0.742
	CDMA2000 BC1	RTAP 153.6Kbps	Back	10	1175	1908.75	24.64	25.00	1.086	-0.04	0.818	0.889
	CDMA2000 BC1	RTAP 153.6Kbps	Left Side	10	1175	1908.75	24.64	25.00	1.086	-0.07	0.702	0.763
	CDMA2000 BC1	RTAP 153.6Kbps	Right Side	10	1175	1908.75	24.64	25.00	1.086	-0.02	0.086	0.093
	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	10	1175	1908.75	24.64	25.00	1.086	0.04	0.817	0.888
	CDMA2000 BC1	RTAP 153.6Kbps	Back	10	25	1851.25	24.36	25.00	1.159	-0.03	0.776	0.899
	CDMA2000 BC1	RTAP 153.6Kbps	Back	10	600	1880	24.31	25.00	1.172	-0.07	0.773	0.906
25	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	10	25	1851.25	24.36	25.00	1.159	-0.03	0.858	<mark>0.994</mark>
	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	10	600	1880	24.31	25.00	1.172	0.04	0.794	0.931

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# FCC SAR Test Report

## <LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12	10M	QPSK	1	24	Front	10	23130	711	23.31	24.00	1.172	-0.11	0.181	0.212
26	LTE Band 12	10M	QPSK	1	24	Back	10	23130	711	23.31	24.00	1.172	-0.02	0.222	0.260
	LTE Band 12	10M	QPSK	1	24	Left Side	10	23130	711	23.31	24.00	1.172	-0.01	0.113	0.132
	LTE Band 12	10M	QPSK	1	24	Right Side	10	23130	711	23.31	24.00	1.172	0.04	0.16	0.188
	LTE Band 12	10M	QPSK	1	24	Bottom Side	10	23130	711	23.31	24.00	1.172	0.03	0.055	0.064
	LTE Band 12	10M	QPSK	25	12	Front	10	23130	711	22.25	23.00	1.189	0.01	0.141	0.168
	LTE Band 12	10M	QPSK	25	12	Back	10	23130	711	22.25	23.00	1.189	0.1	0.217	0.258
	LTE Band 12	10M	QPSK	25	12	Left Side	10	23130	711	22.25	23.00	1.189	0.04	0.086	0.102
	LTE Band 12	10M	QPSK	25	12	Right Side	10	23130	711	22.25	23.00	1.189	0.03	0.122	0.145
	LTE Band 12	10M	QPSK	25	12	Bottom Side	10	23130	711	22.25	23.00	1.189	0.12	0.041	0.049
	LTE Band 17	10M	QPSK	1	24	Front	10	23790	710	23.38	24.00	1.153	-0.17	0.179	0.206
27	LTE Band 17	10M	QPSK	1	24	Back	10	23790	710	23.38	24.00	1.153	-0.1	0.287	0.331
	LTE Band 17	10M	QPSK	1	24	Left Side	10	23790	710	23.38	24.00	1.153	0.08	0.113	0.130
	LTE Band 17	10M	QPSK	1	24	Right Side	10	23790	710	23.38	24.00	1.153	0.03	0.16	0.185
	LTE Band 17	10M	QPSK	1	24	Bottom Side	10	23790	710	23.38	24.00	1.153	-0.1	0.052	0.060
	LTE Band 17	10M	QPSK	25	0	Front	10	23790	710	22.12	23.00	1.225	-0.06	0.138	0.169
	LTE Band 17	10M	QPSK	25	0	Back	10	23790	710	22.12	23.00	1.225	-0.14	0.222	0.272
	LTE Band 17	10M	QPSK	25	0	Left Side	10	23790	710	22.12	23.00	1.225	0.04	0.132	0.162
	LTE Band 17	10M	QPSK	25	0	Right Side	10	23790	710	22.12	23.00	1.225	0.07	0.121	0.148
	LTE Band 17	10M	QPSK	25	0	Bottom Side	10	23790	710	22.12	23.00	1.225	0.04	0.038	0.047
	LTE Band 5	10M	QPSK	1	0	Front	10	20600	844	23.53	24.50	1.250	0.03	0.391	0.489
	LTE Band 5	10M	QPSK	1	0	Back	10	20600	844	23.53	24.50	1.250	-0.18	0.401	0.501
	LTE Band 5	10M	QPSK	1	0	Left Side	10	20600	844	23.53	24.50	1.250	-0.05	0.434	0.543
28	LTE Band 5	10M	QPSK	1	0	Right Side	10	20600	844	23.53	24.50	1.250	-0.07	0.486	<mark>0.608</mark>
	LTE Band 5	10M	QPSK	1	0	Bottom Side	10	20600	844	23.53	24.50	1.250	-0.02	0.237	0.296
	LTE Band 5	10M	QPSK	25	0	Front	10	20600	844	22.34	23.50	1.306	-0.18	0.305	0.398
	LTE Band 5	10M	QPSK	25	0	Back	10	20600	844	22.34	23.50	1.306	-0.11	0.298	0.389
	LTE Band 5	10M	QPSK	25	0	Left Side	10	20600	844	22.34	23.50	1.306	0.01	0.328	0.428
	LTE Band 5	10M	QPSK	25	0	Right Side	10	20600	844	22.34	23.50	1.306	0.16	0.374	0.489
	LTE Band 5	10M	QPSK	25	0	Bottom Side	10	20600	844	22.34	23.50	1.306	0.13	0.194	0.253
	LTE Band 26	15M	QPSK	1	37	Front	10	26965	841.5	23.45	24.00	1.135	-0.04	0.369	0.419
	LTE Band 26	15M	QPSK	1	37	Back	10	26965	841.5	23.45	24.00	1.135	0.02	0.377	0.428
	LTE Band 26	15M	QPSK	1	37	Left Side	10	26965	841.5	23.45	24.00	1.135	0.09	0.406	0.461
29	LTE Band 26	15M	QPSK	1	37	Right Side	10	26965	841.5	23.45	24.00	1.135	0.06	0.462	<mark>0.524</mark>
	LTE Band 26	15M	QPSK	1	37	Bottom Side	10	26965	841.5	23.45	24.00	1.135	0.08	0.237	0.269
	LTE Band 26	15M	QPSK	36	37	Front	10	26965	841.5	22.21	23.00	1.199	0.04	0.296	0.355
	LTE Band 26	15M	QPSK	36	37	Back	10	26965	841.5	22.21	23.00	1.199	-0.13	0.293	0.351
	LTE Band 26	15M	QPSK	36	37	Left Side	10	26965	841.5	22.21	23.00	1.199	0.11	0.321	0.385
	LTE Band 26	15M	QPSK	36	37	Right Side	10	26965	841.5	22.21	23.00	1.199	-0.01	0.371	0.445
	LTE Band 26	15M	QPSK	36	37	Bottom Side	10	26965	841.5	22.21	23.00	1.199	-0.02	0.198	0.238

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SPO	RTON LAB. FC	C SA	R Test Re	ерог	t							Re	eport l	No. : FA	582501
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
INO.	LTE Band 4	, ,	ODCK				, ,	20200	, ,	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
30	LTE Band 4	20M	QPSK QPSK	1	0	Front Back	10 <b>10</b>	20300 <b>20300</b>	1745 <b>1745</b>	23.84 23.84	24.50 <b>24.50</b>	1.164 <b>1.164</b>	-0.09 <b>0.09</b>	0.494 <b>0.701</b>	0.575 0.816
30	LTE Band 4	20M	QPSK	1	0	Left Side	10	20300	1745	23.84	24.50	1.164	0.03	0.701	0.482
	LTE Band 4	20M	QPSK	1	0	Right Side	10	20300	1745	23.84	24.50	1.164	-0.06	0.069	0.482
	LTE Band 4	20M	QPSK	1	0	Bottom Side	10	20300	1745	23.84	24.50	1.164	-0.13	0.681	0.793
	LTE Band 4	20M	QPSK	1	0	Back	10	20050	1720	23.60	24.50	1.230	-0.06	0.58	0.714
	LTE Band 4	20M	QPSK	1	0	Back	10	20175	1732.5	23.68	24.50	1.208	-0.05	0.567	0.685
	LTE Band 4	20M	QPSK	50	0	Front	10	20300	1745	22.47	23.50	1.268	-0.04	0.365	0.463
	LTE Band 4	20M	QPSK	50	0	Back	10	20300	1745	22.47	23.50	1.268	0.06	0.512	0.649
	LTE Band 4	20M	QPSK	50	0	Left Side	10	20300	1745	22.47	23.50	1.268	-0.12	0.311	0.394
	LTE Band 4	20M	QPSK	50	0	Right Side	10	20300	1745	22.47	23.50	1.268	0.06	0.051	0.065
	LTE Band 4	20M	QPSK	50	0	Bottom Side	10	20300	1745	22.47	23.50	1.268	-0.06	0.514	0.652
	LTE Band 4	20M	QPSK	100	0	Back	10	20300	1745	22.46	23.50	1.271	-0.15	0.477	0.606
	LTE Band 2	20M	QPSK	1	0	Front	10	19100	1900	23.87	24.50	1.156	-0.15	0.638	0.738
	LTE Band 2	20M	QPSK	1	0	Back	10	19100	1900	23.87	24.50	1.156	-0.08	0.768	0.888
	LTE Band 2	20M	QPSK	1	0	Left Side	10	19100	1900	23.87	24.50	1.156	0.14	0.783	0.905
	LTE Band 2	20M	QPSK	1	0	Right Side	10	19100	1900	23.87	24.50	1.156	-0.1	0.093	0.108
31	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	19100	1900	23.87	24.50	1.156	-0.16	0.866	1.001
	LTE Band 2	20M	QPSK	1	0	Back	10	18700	1860	23.85	24.50	1.161	-0.09	0.807	0.937
	LTE Band 2	20M	QPSK	1	0	Back	10	18900	1880	23.79	24.50	1.178	0.07	0.81	0.954
	LTE Band 2	20M	QPSK	1	0	Left Side	10	18700	1860	23.85	24.50	1.161	0.04	0.698	0.811
	LTE Band 2	20M	QPSK	1	0	Left Side	10	18900	1880	23.79	24.50	1.178	-0.16	0.734	0.864
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	18700	1860	23.85	24.50	1.161	0.01	0.84	0.976
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	18900	1880	23.79	24.50	1.178	-0.03	0.81	0.954
	LTE Band 2	20M	QPSK	50	0	Front	10	19100	1900	22.55	23.50	1.245	0.03	0.472	0.587
	LTE Band 2	20M	QPSK	50	0	Back	10	19100	1900	22.55	23.50	1.245	0.06	0.57	0.709
	LTE Band 2	20M	QPSK	50	0	Left Side	10	19100	1900	22.55	23.50	1.245	-0.12	0.579	0.721
	LTE Band 2	20M	QPSK	50	0	Right Side	10	19100	1900	22.55	23.50	1.245	-0.12	0.067	0.083
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10	19100	1900	22.55	23.50	1.245	0.03	0.642	0.799
	LTE Band 2	20M	QPSK	100	0	Back	10	19100	1900	22.43	23.50	1.279	-0.05	0.674	0.862
	LTE Band 2	20M	QPSK	100	0	Left Side	10	19100	1900	22.43	23.50	1.279	0.12	0.572	0.732
	LTE Band 2	20M	QPSK	100	0	Bottom Side	10	19100	1900	22.43	23.50	1.279	-0.13	0.606	0.775
	LTE Band 25	20M	QPSK	1	0	Front	10	26590	1905	23.84	24.50	1.164	-0.18	0.651	0.758
	LTE Band 25	20M	QPSK	1	0	Back	10	26590	1905	23.84	24.50	1.164	-0.06	0.77	0.896
	LTE Band 25	20M	QPSK	1	0	Left Side	10	26590	1905	23.84	24.50	1.164	-0.02	0.793	0.923
	LTE Band 25	20M	QPSK	1	0	Right Side	10	26590	1905	23.84	24.50	1.164	-0.06	0.097	0.113
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10	26590	1905	23.84	24.50	1.164	-0.06	0.797	0.928
	LTE Band 25	20M	QPSK	1	0	Back	10	26140	1860	23.80	24.50	1.175	-0.13	0.796	0.935
	LTE Band 25	20M	QPSK	1	0	Back	10	26340	1880	23.74	24.50	1.191	0.06	0.757	0.902
	LTE Band 25	20M	QPSK	1	0	Left Side	10	26140	1860	23.80	24.50	1.175	-0.08	0.714	0.839
	LTE Band 25	20M	QPSK	1	0	Left Side	10	26340	1880	23.74	24.50	1.191	-0.04	0.749	0.892
32	LTE Band 25	20M	QPSK	1	0	Bottom Side	10	26140	1860	23.80	24.50	1.175	-0.12	0.845	0.993
	LTE Band 25	20M	QPSK	1	0	Bottom Side	10	26340	1880	23.74	24.50	1.191	0.07	0.819	0.976
	LTE Band 25	20M	QPSK	50	0	Front	10	26590	1905	22.54	23.50	1.247	-0.16	0.502	0.626
	LTE Band 25	20M	QPSK	50	0	Back	10	26590	1905	22.54	23.50	1.247	-0.06	0.588	0.733
	LTE Band 25	20M	QPSK	50	0	Left Side	10	26590	1905	22.54	23.50	1.247	0.06	0.606	0.756
	LTE Band 25	20M	QPSK	50	0	Right Side	10	26590	1905	22.54	23.50	1.247	-0.14	0.069	0.086
	LTE Band 25	20M	QPSK	50	0	Bottom Side	10	26590	1905	22.54	23.50	1.247	-0.05	0.581	0.725
	LTE Band 25	20M	QPSK	100	0	Back	10	26590	1905	22.53	23.50	1.250	0.09	0.57	0.713
	LTE Band 25	20M	QPSK	100	0	Left Side	10	26590	1905	22.53	23.50	1.250	-0.06	0.613	0.766
	LTE Band 25	20M	QPSK	100	0	Bottom Side	10	26590	1905	22.53	23.50	1.250	0.02	0.603	0.754

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## <WLAN 2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b_1Mbps	Front	10	11	2462	17.86	18.50	1.159	98.88	1.011	-0.03	0.064	0.075
	WLAN2.4GHz	802.11b_1Mbps	Back	10	11	2462	17.86	18.50	1.159	98.88	1.011	0.08	0.102	0.120
33	WLAN2.4GHz	802.11b_1Mbps	Right Side	10	11	2462	17.86	18.50	1.159	98.88	1.011	-0.03	0.137	0.161
	WLAN2.4GHz	802.11b_1Mbps	Top Side	10	11	2462	17.86	18.50	1.159	98.88	1.011	0.06	0.069	0.081

Report No. : FA582501

## 15.3 Body Worn Accessory SAR

## <GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Front	10	128	824.2	28.86	29.00	1.033	0.01	0.449	0.464
34	GSM850	GPRS(4 Tx slots)	Back	10	128	824.2	28.86	29.00	1.033	-0.06	0.622	0.642
	GSM1900	GPRS(4 Tx slots)	Front	10	512	1850.2	27.16	27.50	1.081	0.04	0.413	0.447
35	GSM1900	GPRS(4 Tx slots)	Back	10	512	1850.2	27.16	27.50	1.081	0.13	0.497	0.537

Report No. : FA582501

### <WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	10	4233	846.6	24.53	25.00	1.114	-0.05	0.455	0.507
36	WCDMA Band V	RMC 12.2Kbps	Back	10	4233	846.6	24.53	25.00	1.114	0.07	0.457	0.509
	WCDMA Band IV	RMC 12.2Kbps	Front	10	1513	1752.6	24.68	25.00	1.076	-0.09	0.599	0.645
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1513	1752.6	24.68	25.00	1.076	0.08	0.789	0.849
37	WCDMA Band IV	RMC 12.2Kbps	Back	10	1312	1712.4	24.42	25.00	1.143	0.04	0.809	0.925
	WCDMA Band IV	RMC 12.2Kbps	Back	10	1413	1732.6	24.28	25.00	1.180	-0.01	0.696	0.822
	WCDMA Band II	RMC 12.2Kbps	Front	10	9400	1880	24.25	24.50	1.059	-0.05	0.673	0.713
	WCDMA Band II	RMC 12.2Kbps	Back	10	9400	1880	24.25	24.50	1.059	-0.05	0.815	0.863
	WCDMA Band II	RMC 12.2Kbps	Back	10	9262	1852.4	23.86	24.50	1.159	-0.02	0.736	0.853
38	WCDMA Band II	RMC 12.2Kbps	Back	10	9538	1907.6	23.93	24.50	1.140	-0.02	0.923	1.052

### <CDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
39	CDMA2000 BC0	RC3 SO32	Front	10	1013	824.7	24.44	25.00	1.138	-0.05	0.48	0.546
	CDMA2000 BC0	RC3 SO32	Back	10	1013	824.7	24.44	25.00	1.138	-0.11	0.479	0.545
	CDMA2000 BC1	RC3 SO32	Front	10	1175	1908.75	24.64	25.00	1.086	-0.08	0.71	0.771
40	CDMA2000 BC1	RC3 SO32	Back	10	1175	1908.75	24.64	25.00	1.086	-0.02	0.84	<mark>0.913</mark>
	CDMA2000 BC1	RC3 SO32	Back	10	25	1851.25	24.43	25.00	1.140	-0.08	0.718	0.819
	CDMA2000 BC1	RC3 SO32	Back	10	600	1880	24.32	25.00	1.169	-0.08	0.738	0.863

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# <LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12	10M	QPSK	1	24	Front	10	23130	711	23.31	24.00	1.172	-0.11	0.181	0.212
26	LTE Band 12	10M	QPSK	1	24	Back	10	23130	711	23.31	24.00	1.172	-0.02	0.222	<mark>0.260</mark>
	LTE Band 12	10M	QPSK	25	12	Front	10	23130	711	22.25	23.00	1.189	0.01	0.141	0.168
	LTE Band 12	10M	QPSK	25	12	Back	10	23130	711	22.25	23.00	1.189	0.1	0.217	0.258
	LTE Band 17	10M	QPSK	1	24	Front	10	23790	710	23.38	24.00	1.153	-0.17	0.179	0.206
27	LTE Band 17	10M	QPSK	1	24	Back	10	23790	710	23.38	24.00	1.153	-0.1	0.287	<mark>0.331</mark>
	LTE Band 17	10M	QPSK	25	0	Front	10	23790	710	22.12	23.00	1.225	-0.06	0.138	0.169
	LTE Band 17	10M	QPSK	25	0	Back	10	23790	710	22.12	23.00	1.225	-0.14	0.222	0.272
	LTE Band 5	10M	QPSK	1	0	Front	10	20600	844	23.53	24.50	1.250	0.03	0.391	0.489
41	LTE Band 5	10M	QPSK	1	0	Back	10	20600	844	23.53	24.50	1.250	-0.18	0.401	<mark>0.501</mark>
	LTE Band 5	10M	QPSK	25	0	Front	10	20600	844	22.34	23.50	1.306	-0.18	0.305	0.398
	LTE Band 5	10M	QPSK	25	0	Back	10	20600	844	22.34	23.50	1.306	-0.11	0.298	0.389
	LTE Band 26	15M	QPSK	1	37	Front	10	26965	841.5	23.45	24.00	1.135	-0.04	0.369	0.419
42	LTE Band 26	15M	QPSK	1	37	Back	10	26965	841.5	23.45	24.00	1.135	0.02	0.377	<mark>0.428</mark>
	LTE Band 26	15M	QPSK	36	37	Front	10	26965	841.5	22.21	23.00	1.199	0.04	0.296	0.355
	LTE Band 26	15M	QPSK	36	37	Back	10	26965	841.5	22.21	23.00	1.199	-0.13	0.293	0.351
	LTE Band 4	20M	QPSK	1	0	Front	10	20300	1745	23.84	24.50	1.164	-0.09	0.494	0.575
30	LTE Band 4	20M	QPSK	1	0	Back	10	20300	1745	23.84	24.50	1.164	0.09	0.701	<mark>0.816</mark>
	LTE Band 4	20M	QPSK	1	0	Back	10	20050	1720	23.60	24.50	1.230	-0.06	0.58	0.714
	LTE Band 4	20M	QPSK	1	0	Back	10	20175	1732.5	23.68	24.50	1.208	-0.05	0.567	0.685
	LTE Band 4	20M	QPSK	50	0	Front	10	20300	1745	22.47	23.50	1.268	-0.04	0.365	0.463
	LTE Band 4	20M	QPSK	50	0	Back	10	20300	1745	22.47	23.50	1.268	0.06	0.512	0.649
	LTE Band 4	20M	QPSK	100	0	Back	10	20300	1745	22.46	23.50	1.271	-0.15	0.477	0.606
	LTE Band 2	20M	QPSK	1	0	Front	10	19100	1900	23.87	24.50	1.156	-0.15	0.638	0.738
	LTE Band 2	20M	QPSK	1	0	Back	10	19100	1900	23.87	24.50	1.156	-0.08	0.768	0.888
	LTE Band 2	20M	QPSK	1	0	Back	10	18700	1860	23.85	24.50	1.161	-0.09	0.807	0.937
43	LTE Band 2	20M	QPSK	1	0	Back	10	18900	1880	23.79	24.50	1.178	0.07	0.81	<mark>0.954</mark>
	LTE Band 2	20M	QPSK	50	0	Front	10	19100	1900	22.55	23.50	1.245	0.03	0.472	0.587
	LTE Band 2	20M	QPSK	50	0	Back	10	19100	1900	22.55	23.50	1.245	0.06	0.57	0.709
	LTE Band 2	20M	QPSK	100	0	Back	10	19100	1900	22.43	23.50	1.279	-0.05	0.674	0.862
	LTE Band 25	20M	QPSK	1	0	Front	10	26590	1905	23.84	24.50	1.164	-0.18	0.651	0.758
	LTE Band 25	20M	QPSK	1	0	Back	10	26590	1905	23.84	24.50	1.164	-0.06	0.77	0.896
44	LTE Band 25	20M	QPSK	1	0	Back	10	26140	1860	23.80	24.50	1.175	-0.13	0.796	0.935
	LTE Band 25	20M	QPSK	1	0	Back	10	26340	1880	23.74	24.50	1.191	0.06	0.757	0.902
	LTE Band 25	20M	QPSK	50	0	Front	10	26590	1905	22.54	23.50	1.247	-0.16	0.502	0.626
	LTE Band 25	20M	QPSK	50	0	Back	10	26590	1905	22.54	23.50	1.247	-0.06	0.588	0.733
	LTE Band 25	20M	QPSK	100	0	Back	10	26590	1905	22.53	23.50	1.250	0.09	0.57	0.713

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## <WLAN 2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor			Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b_1Mbps	Front	10	11	2462	17.86	18.50	1.159	98.88	1.011	-0.03	0.064	0.075
45	WLAN2.4GHz	802.11b_1Mbps	Back	10	11	2462	17.86	18.50	1.159	98.88	1.011	0.08	0.102	<mark>0.120</mark>

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## <WLAN 5GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 5.3GHz	802.11a 6Mbps	Front	10	64	5320	16.47	17.00	1.130	94.83	1.054	-0.08	0.016	0.019
46	WLAN 5.3GHz	802.11a 6Mbps	Back	10	64	5320	16.47	17.00	1.130	94.83	1.054	0.05	0.039	0.046
	WLAN 5.5GHz	802.11a 6Mbps	Front	10	100	5500	15.29	15.50	1.049	94.83	1.054	0.07	0.038	0.042
47	WLAN 5.5GHz	802.11a 6Mbps	Back	10	100	5500	15.29	15.50	1.049	94.83	1.054	-0.07	0.057	<mark>0.063</mark>
	WLAN 5.8GHz	802.11a 6Mbps	Front	10	149	5745	16.01	16.50	1.119	94.83	1.054	-0.02	0.00813	0.010
48	WLAN 5.8GHz	802.11a 6Mbps	Back	10	149	5745	16.01	16.50	1.119	94.83	1.054	-0.01	0.0044	0.005



## 15.4 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	GSM850	GPRS(4 Tx slots)	Right Side	10	251	848.8	28.46	29.00	1.132	-0.05	1.020	1	1.155
2nd	GSM850	GPRS(4 Tx slots)	Right Side	10	251	848.8	28.46	29.00	1.132	0.04	1.010	1.010	1.144
1st	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	1312	1712.4	24.42	25.00	1.143	0.04	0.844	1	0.965
2nd	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	1312	1712.4	24.42	25.00	1.143	-0.02	0.821	1.027	0.938
1st	WCDMA Band II	RMC 12.2Kbps	Left Side	10	9400	1880	24.25	24.50	1.059	0.05	1.060	1	1.123
2nd	WCDMA Band II	RMC 12.2Kbps	Left Side	10	9400	1880	24.25	24.50	1.059	-0.05	1.020	1.038	1.080

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### **General Note:**

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

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# 16. Simultaneous Transmission Analysis

NO	Simultaneous Transmission		Portable Handset		Nete
NO.	Configurations	Head	Body-worn	Hotspot	Note
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		
2.	CDMA Voice + WLAN2.4GHz	Yes	Yes		
3.	CDMA Data + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
4.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
5.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
6.	LTE + WLAN2.4GHz	Yes	Yes	Yes	Hotspot
7.	GSM Voice + Bluetooth		Yes		
8.	CDMA Voice + Bluetooth		Yes		
9.	CDMA Data + Bluetooth		Yes		WWAN VoIP
10.	GPRS/EDGE + Bluetooth		Yes		WWAN VoIP
11.	WCDMA+ Bluetooth		Yes		WWAN VoIP
12.	LTE + Bluetooth		Yes		WWAN VoIP
13.	GSM Voice + WLAN5GHz	Yes	Yes		
14.	CDMA Voice + WLAN5GHz	Yes	Yes		
15.	CDMA Data + WLAN5GHz	Yes	Yes		WWAN VoIP
16.	GPRS/EDGE + WLAN5GHz	Yes	Yes		WWAN VoIP
17.	WCDMA + WLAN5GHz	Yes	Yes		WWAN VoIP
18.	LTE + WLAN5GHz	Yes	Yes		WWAN VoIP

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### **General Note:**

- 1. This device supported VoIP in GPRS/EGPRS, CDMA, WCDMA, LTE (e.g. 3rd party VoIP).
- 2. This device 2.4GHz WLAN supports Hotspot operation.
- 3. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- 4. EUT will choose each GSM, CDMA, 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.
- 6. Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation < 1.6W/kg.
  - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
- 7. For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v05r02 based on the formula below.
  - i) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]-[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
  - ii) When the minimum separation distance is < 5mm, the distance is used 5mm to determine SAR test exclusion.
  - iii) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.

Bluetooth	Exposure Position	Body worn		
Max Power	Test separation	10mm		
10.0 dBm	Estimated SAR (W/kg)	0.210 W/kg		

## 16.1 Head Exposure Conditions

### <WWAN + WLAN 2.4GHz>

AWWW + WL	N Band	Exposure	WWAN	WLAN 2.4GHz	Summed	eni en	Coop No
			SAR SAR (W/kg) (W/kg)	SAR (W/kg)	SPLSR	Case No	
		Right Cheek	0.670	0.152	0.82		
	GSM850	Right Tilted	0.351	0.124	0.48		
	GSIVIOSO	Left Cheek	0.608	0.472	1.08		
GSM		Left Tilted	0.332	0.429	0.76		
GSIVI		Right Cheek	0.236	0.152	0.39		
	GSM1900	Right Tilted	0.203	0.124	0.33		
	GSW1900	Left Cheek	0.514	0.472	0.99		
		Left Tilted	0.114	0.429	0.54		
		Right Cheek	0.548	0.152	0.70		
	Band V	Right Tilted	0.296	0.124	0.42		
		Left Cheek	0.494	0.472	0.97		
		Left Tilted	0.235	0.429	0.66		
	Band IV	Right Cheek	0.249	0.152	0.40		
WCDMA		Right Tilted	0.215	0.124	0.34		
WODIVIA		Left Cheek	0.617	0.472	1.09		
		Left Tilted	0.140	0.429	0.57		
		Right Cheek	0.354	0.152	0.51		
	Band II	Right Tilted	0.328	0.124	0.45		
	Danu II	Left Cheek	0.904	0.472	<mark>1.38</mark>		
		Left Tilted	0.254	0.429	0.68		
		Right Cheek	0.311	0.152	0.46		
	BC0	Right Tilted	0.279	0.124	0.40		
	500	Left Cheek	0.316	0.472	0.79		
CDMA2000		Left Tilted	0.204	0.429	0.63		
221111 12000		Right Cheek	0.349	0.152	0.50		
	BC1	Right Tilted	0.260	0.124	0.38		
	201	Left Cheek	0.711	0.472	1.18		
		Left Tilted	0.209	0.429	0.64		

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	WWAN Band		WWAN	WLAN 2.4GHz	Summed		
WWAI			SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.148	0.152	0.30		
	Band 12	Right Tilted	0.057	0.124	0.18		
	Band 12	Left Cheek	0.179	0.472	0.65		
		Left Tilted	0.107	0.429	0.54		
		Right Cheek	0.146	0.152	0.30		
	Band 17	Right Tilted	0.104	0.124	0.23		
	Danu 17	Left Cheek	0.173	0.472	0.65		
		Left Tilted	0.087	0.429	0.52		
		Right Cheek	0.370	0.152	0.52		
	Band 5	Right Tilted	0.204	0.124	0.33		
		Left Cheek	0.369	0.472	0.84		
		Left Tilted	0.185	0.429	0.61		
	Band 26	Right Cheek	0.322	0.152	0.47		
LTE		Right Tilted	0.182	0.124	0.31		
LIL		Left Cheek	0.320	0.472	0.79		
		Left Tilted	0.197	0.429	0.63		
		Right Cheek	0.210	0.152	0.36		
	Band 4	Right Tilted	0.227	0.124	0.35		
	Band 4	Left Cheek	0.517	0.472	0.99		
		Left Tilted	0.150	0.429	0.58		
		Right Cheek	0.371	0.152	0.52		
	Band 2	Right Tilted	0.184	0.124	0.31		
	Danu Z	Left Cheek	0.617	0.472	1.09		
		Left Tilted	0.202	0.429	0.63		
		Right Cheek	0.390	0.152	0.54		
	Band 25	Right Tilted	0.193	0.124	0.32		
	Dariu 23	Left Cheek	0.632	0.472	1.10		
		Left Tilted	0.213	0.429	0.64		

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### <WWAN + WLAN 5GHz>

WWAN Band		Exposure	WWAN	WLAN 5GHz	Summed		
,	· Dana	Position	SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.670	0.060	0.73		
	GSM850	Right Tilted	0.351	0.042	0.39		
	GSIVIOSO	Left Cheek	0.608	0.206	0.81		
GSM		Left Tilted	0.332	0.163	0.50		
GSIVI		Right Cheek	0.236	0.060	0.30		
	GSM1900	Right Tilted	0.203	0.042	0.25		
	GSW1900	Left Cheek	0.514	0.206	0.72		
		Left Tilted	0.114	0.163	0.28		
		Right Cheek	0.548	0.060	0.61		
	Band V	Right Tilted	0.296	0.042	0.34		
		Left Cheek	0.494	0.206	0.70		
		Left Tilted	0.235	0.163	0.40		
	Band IV	Right Cheek	0.249	0.060	0.31		
WCDMA		Right Tilted	0.215	0.042	0.26		
WCDIVIA		Left Cheek	0.617	0.206	0.82		
		Left Tilted	0.140	0.163	0.30		
		Right Cheek	0.354	0.060	0.41		
	Band II	Right Tilted	0.328	0.042	0.37		
	Danu II	Left Cheek	0.904	0.206	1.11		
		Left Tilted	0.254	0.163	0.42		
		Right Cheek	0.311	0.060	0.37		
	BC0	Right Tilted	0.279	0.042	0.32		
	ВСО	Left Cheek	0.316	0.206	0.52		
CDMA2000		Left Tilted	0.204	0.163	0.37		
CDIVIA2000		Right Cheek	0.349	0.060	0.41		
	BC1	Right Tilted	0.260	0.042	0.30		
	БСТ	Left Cheek	0.711	0.206	0.92		
		Left Tilted	0.209	0.163	0.37		

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		Exposure	WWAN	WLAN 5GHz	Summed		
WW	WWAN Band		SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.148	0.060	0.21		
	Band 12	Right Tilted	0.057	0.042	0.10		
	Banu 12	Left Cheek	0.179	0.206	0.39		
		Left Tilted	0.107	0.163	0.27		
		Right Cheek	0.146	0.060	0.21		
	Band 17	Right Tilted	0.104	0.042	0.15		
	Band 17	Left Cheek	0.173	0.206	0.38		
		Left Tilted	0.087	0.163	0.25		
		Right Cheek	0.370	0.060	0.43		
	5 .5	Right Tilted	0.204	0.042	0.25		
	Band 5	Left Cheek	0.369	0.206	0.58		
		Left Tilted	0.185	0.163	0.35		
		Right Cheek	0.322	0.060	0.38		
LTE		Right Tilted	0.182	0.042	0.22		
LIE	Band 26	Left Cheek	0.320	0.206	0.53		
		Left Tilted	0.197	0.163	0.36		
		Right Cheek	0.210	0.060	0.27		
		Right Tilted	0.227	0.042	0.27		
	Band 4	Left Cheek	0.517	0.206	0.72		
		Left Tilted	0.150	0.163	0.31		
		Right Cheek	0.371	0.060	0.43		
		Right Tilted	0.184	0.042	0.23		
	Band 2	Left Cheek	0.617	0.206	0.82		
		Left Tilted	0.202	0.163	0.37		
		Right Cheek	0.390	0.060	0.45		
	B 10-	Right Tilted	0.193	0.042	0.24		
	Band 25	Left Cheek	0.632	0.206	0.84		
		Left Tilted	0.213	0.163	0.38		

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# 16.2 Hotspot Exposure Conditions

### <WWAN + WLAN 2.4GHz>

<wwan +="" th="" wl<=""><th></th><th>Evaceuro</th><th>WWAN</th><th>WLAN 2.4GHz</th><th>Summed</th><th></th><th></th></wwan>		Evaceuro	WWAN	WLAN 2.4GHz	Summed		
WWAN	Band	Exposure Position	SAR	SAR	SAR (W/kg)	SPLSR	Case No
		Front	(W/kg)	(W/kg)			
		Front	0.464	0.075	0.54		
		Back Left Side	0.642	0.120	0.76 0.53		
	GSM850	Right Side	1.197	0.161	1.36		
		Top Side	1.197	0.081	0.08		
		Bottom Side	0.284	0.001	0.28		
GSM		Front	0.447	0.075	0.52		
		Back	0.537	0.120	0.66		
		Left Side	0.605	0.1.0	0.61		
	GSM1900	Right Side	0.056	0.161	0.22		
		Top Side		0.081	0.08		
		Bottom Side	0.603		0.60		
		Front	0.507	0.075	0.58		
		Back	0.509	0.120	0.63		
	Band V	Left Side	0.275		0.28		
	Dariu V	Right Side	0.971	0.161	1.13		
		Top Side		0.081	0.08		
		Bottom Side	0.425		0.43		
		Front	0.645	0.075	0.72		
		Back	0.925	0.120	1.05		
WCDMA	Band IV	Left Side	0.870		0.87		
		Right Side	0.074	0.161	0.24		
		Top Side		0.081	0.08		
		Bottom Side	0.965		0.97		
		Front	0.713	0.075	0.79		
		Back	1.052	0.120	1.17		
	Band II	Left Side	1.123	0.404	1.12		
		Right Side	0.105	0.161	0.27		
		Top Side	4.400	0.081	0.08		
		Bottom Side	1.138	0.075	1.14		
		Front	0.562	0.075	0.64		
		Back	0.520	0.120	0.64		
	BC0	Left side	0.427		0.43		
		Right side	0.989	0.161	1.15		
		Top side		0.081	0.08		
CDMA2000		Bottom side	0.264		0.26		
CDMA2000		Front	0.742	0.075	0.82		
		Back	0.906	0.120	1.03		
		Left side	0.763		0.76		
	BC1	Right side	0.093	0.161	0.25		
		Top side		0.081	0.08		
		Bottom side	0.994	5.501	0.99		

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WWAN	l Band	Exposure Position	WWAN SAR	WLAN 2.4GHz SAR	Summed	SPLSR	Case No
****			(W/kg)	(W/kg)	SAR (W/kg)	G. 2510	0400110
		Front	0.212	0.075	0.29		
		Back	0.260	0.120	0.38		
	Band 12	Left side	0.132		0.13		
	Danu 12	Right side	0.188	0.161	0.35		
		Top side		0.081	0.08		
		Bottom side	0.064		0.06		
		Front	0.206	0.075	0.28		
		Back	0.331	0.120	0.45		
	Band 17	Left side	0.162		0.16		
	Dallu 17	Right side	0.185	0.161	0.35		
		Top side		0.081	0.08		
		Bottom side	0.060		0.06		
		Front	0.489	0.075	0.56		
		Back	0.501	0.120	0.62		
	David 5	Left side	0.543		0.54		
	Band 5	Right side	0.608	0.161	0.77		
		Top side		0.081	0.08		
		Bottom side	0.296		0.30		
	Band 26	Front	0.419	0.075	0.49		
		Back	0.428	0.120	0.55		
		Left side	0.461		0.46		
LTE		Right side	0.524	0.161	0.69		
		Top side		0.081	0.08		
		Bottom side	0.269		0.27		
		Front	0.575	0.075	0.65		
		Back	0.816	0.120	0.94		
		Left side	0.482		0.48		
	Band 4	Right side	0.080	0.161	0.24		
		Top side		0.081	0.08		
		Bottom side	0.793		0.79		
		Front	0.738	0.075	0.81		
		Back	0.954	0.120	1.07		
		Left side	0.905		0.91		
	Band 2	Right side	0.108	0.161	0.27		
		Top side		0.081	0.08		
		Bottom side	1.001		1.00		
		Front	0.758	0.075	0.83		
		Back	0.935	0.120	1.06		
		Left side	0.923		0.92		
	Band 25	Right side	0.113	0.161	0.27		
		Top side		0.081	0.08		
		Bottom side	0.993		0.99		

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## 16.3 Body-Worn Accessory Exposure Conditions

### <WWAN + WLAN 2.4GHz>

		Exposure	WWAN	WLAN 2.4GHz	Summed		
1AWW	WWAN Band		SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.464	0.075	0.54		
GSM	G3101030	Back	0.642	0.120	0.76		
COIVI	GSM1900	Front	0.447	0.075	0.52		
	COMTOGO	Back	0.537	0.120	0.66		
	Band V	Front	0.507	0.075	0.58		
	200	Back	0.509	0.120	0.63		
WCDMA	Band IV	Front	0.645	0.075	0.72		
	24.14.17	Back	0.925	0.120	1.05		
	Band II	Front	0.713	0.075	0.79		
	24.14.1	Back	1.052	0.120	1.17		
	BC0	Front	0.546	0.075	0.62		
CDMA2000		Back	0.545	0.120	0.67		
CDIVIA2000	BC1	Front	0.771	0.075	0.85		
		Back	0.913	0.120	1.03		
	Band 12	Front	0.212	0.075	0.29		
		Back	0.260	0.120	0.38		
	Band 17	Front	0.206	0.075	0.28		
		Back	0.331	0.120	0.45		
	Band 5	Front	0.489	0.075	0.56		
	band 5	Back	0.501	0.120	0.62		
LTE	Band 26	Front	0.419	0.075	0.49		
LIE	Danu 26	Back	0.428	0.120	0.55		
	Band 4	Front	0.575	0.075	0.65		
	Dallu 4	Back	0.816	0.120	0.94		
	Band 2	Front	0.738	0.075	0.81		
	Danu Z	Back	0.954	0.120	1.07		
	Band 25	Front	0.758	0.075	0.83		
	Danu 25	Back	0.935	0.120	1.06		

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### <WWAN + WLAN 5GHz>

<wwan +="" th="" wl<=""><th></th><th>Exposure</th><th>WWAN</th><th>WLAN 5GHz</th><th>Summed</th><th></th><th></th></wwan>		Exposure	WWAN	WLAN 5GHz	Summed		
1AWW	WWAN Band		SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.464	0.042	0.51		
GSM	G3101030	Back	0.642	0.063	0.71		
COIVI	GSM1900	Front	0.447	0.042	0.49		
	COMTOGO	Back	0.537	0.063	0.60		
	Band V	Front	0.507	0.042	0.55		
	Barra v	Back	0.509	0.063	0.57		
WCDMA	Band IV	Front	0.645	0.042	0.69		
		Back	0.925	0.063	0.99		
	Band II	Front	0.713	0.042	0.76		
		Back	1.052	0.063	<mark>1.12</mark>		
	BC0	Front	0.546	0.042	0.59		
CDMA2000		Back	0.545	0.063	0.61		
CDIVIAZOOO	BC1	Front	0.771	0.042	0.81		
		Back	0.913	0.063	0.98		
	Band 12	Front	0.212	0.042	0.25		
		Back	0.260	0.063	0.32		
	Band 17	Front	0.206	0.042	0.25		
		Back	0.331	0.063	0.39		
	Band 5	Front	0.489	0.042	0.53		
	Barid 5	Back	0.501	0.063	0.56		
LTE	Band 26	Front	0.419	0.042	0.46		
LIE	Banu 20	Back	0.428	0.063	0.49		
	Band 4	Front	0.575	0.042	0.62		
	Bariu 4	Back	0.816	0.063	0.88		
	Band 2	Front	0.738	0.042	0.78		
	Dailu Z	Back	0.954	0.063	1.02		
	Band 25	Front	0.758	0.042	0.80		
	Danu 25	Back	0.935	0.063	1.00		

### <WWAN + Bluetooth>

WWAN Band		Exposure Position	WWAN SAR (W/kg)	Bluetooth Estimated SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
GSM	GSM850	Front	0.464	0.210	0.67		
	GSIVIOOU	Back	0.642	0.210	0.85		
	GSM1900	Front	0.447	0.210	0.66		
		Back	0.537	0.210	0.75		
WCDMA	Band V	Front	0.507	0.210	0.72		
		Back	0.509	0.210	0.72		
	Band IV	Front	0.645	0.210	0.86		
		Back	0.925	0.210	1.14		
	Band II	Front	0.713	0.210	0.92		
		Back	1.052	0.210	1.26		
	BC0	Front	0.546	0.210	0.76		
CDMA2000		Back	0.545	0.210	0.76		
	BC1	Front	0.771	0.210	0.98		
		Back	0.913	0.210	1.12		
LTE	Band 12	Front	0.212	0.210	0.42		
		Back	0.260	0.210	0.47		
	Band 17	Front	0.206	0.210	0.42		
		Back	0.331	0.210	0.54		
	Band 5	Front	0.489	0.210	0.70		
		Back	0.501	0.210	0.71		
	Band 26	Front	0.419	0.210	0.63		
		Back	0.428	0.210	0.64		
	Band 4	Front	0.575	0.210	0.79		
		Back	0.816	0.210	1.03		
	Band 2	Front	0.738	0.210	0.95		
		Back	0.954	0.210	1.16		
	Band 25	Front	0.758	0.210	0.97		
		Back	0.935	0.210	1.15		

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Test Engineer: Luke Lu

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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.

<b>Uncertainty Distributions</b>	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor <sup>(a)</sup>	1/k <sup>(b)</sup>	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)  $\kappa$  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.

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Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.0	N	1	1	1	6.0	6.0
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2
Test Sample Related							
Device Positioning	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	3.6	3.6
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1
Cor	Combined Std. Uncertainty						
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						22.9%	22.7%

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

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Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Positioning	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	3.6	3.6
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty							12.5%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						25.0%	24.9%

Table 17.3. Uncertainty Budget for frequency range 3 GHz to 6 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. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r01, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Jun 2015.
- [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 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

## System Check\_Head\_750MHz\_150917

#### **DUT: D750V3-SN:1065**

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

Medium: HSL\_750\_150917 Medium parameters used: f = 750 MHz;  $\sigma$  = 0.89 S/m;  $\epsilon_r$  = 40.918;  $\rho$  =

Date: 2015.09.17

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

Ambient Temperature: 23.3  $^{\circ}$ C; Liquid Temperature: 22.5  $^{\circ}$ C

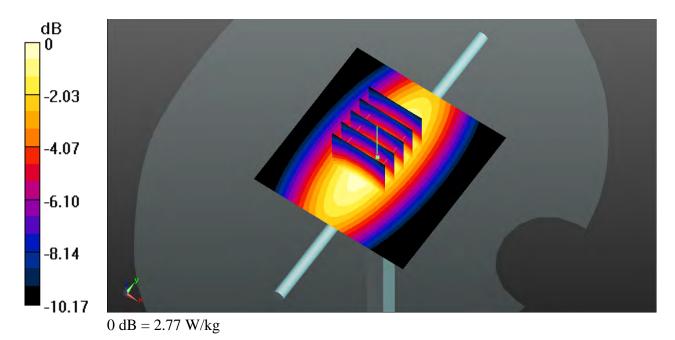
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(10.33, 10.33, 10.33); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

## **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.77 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 56.49 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 3.24 W/kg SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.47 W/kg

Maximum value of SAR (measured) = 2.77 W/kg



## System Check\_Head\_835MHz\_150911

### DUT: D835V2-SN:4d091

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: HSL\_835\_150911 Medium parameters used: f = 835 MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 40.749$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

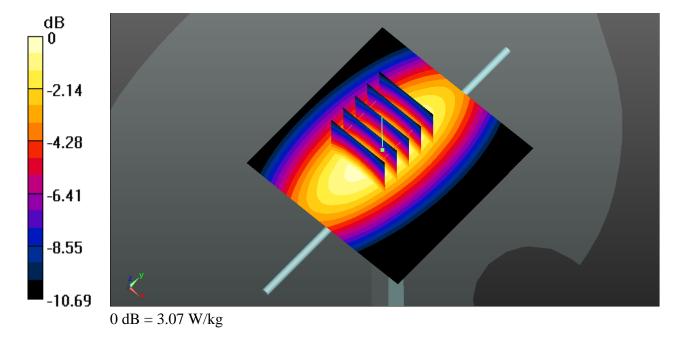
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 3.04 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 57.11 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 3.60 W/kg SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 3.07 W/kg



## System Check\_Head\_835MHz\_150912

### DUT: D835V2-SN:4d091

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: HSL\_835\_150912 Medium parameters used: f = 835 MHz;  $\sigma = 0.897$  S/m;  $\epsilon_r = 40.781$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.12

**Ambient Temperature**: 23.3 °C ; **Liquid Temperature**: 22.6 °C

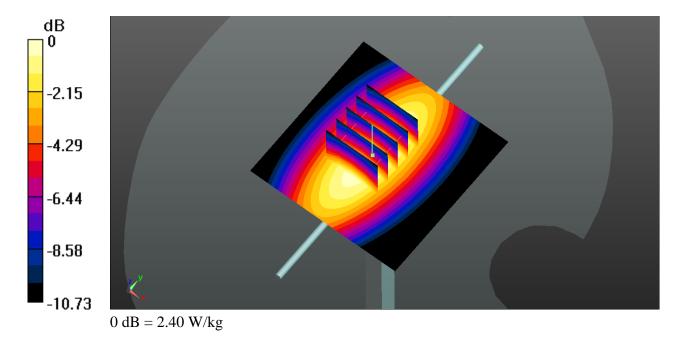
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.86 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 56.55 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.39 W/kg SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 2.86 W/kg



## System Check\_Head\_1750MHz\_150916

### DUT: D1750V2-SN:1069

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

Medium: HSL\_1800\_150916 Medium parameters used: f = 1750 MHz;  $\sigma = 1.373$  S/m;  $\varepsilon_r = 41.392$ ;

Date: 2015.09.16

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

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.6  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.52, 8.52, 8.52); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

## **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.2 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 98.66 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 16.5 W/kg SAR(1 g) = 9.41 W/kg; SAR(10 g) = 5.09 W/kg Maximum value of SAR (measured) = 13.2 W/kg

-3.27 -6.53 -9.80 -16.33 0 dB = 13.2 W/kg

## System Check\_Head\_1900MHz\_150912

### DUT: D1900V2-SN:5d118

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

Medium: HSL\_1900\_150912 Medium parameters used: f = 1900 MHz;  $\sigma = 1.419$  S/m;  $\varepsilon_r = 40.346$ ;

Date: 2015.09.12

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

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

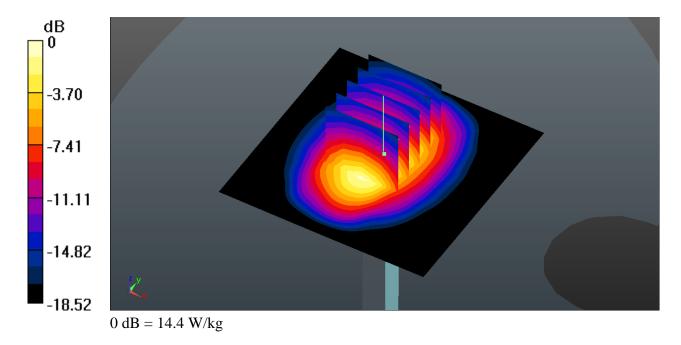
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

## **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 101.7 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.7 W/kg SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.36 W/kg

Maximum value of SAR (measured) = 14.4 W/kg



## System Check\_Head\_1900MHz\_150913

### DUT: D1900V2-SN:5d118

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

Medium: HSL\_1900\_150913 Medium parameters used: f = 1900 MHz;  $\sigma = 1.452$  S/m;  $\varepsilon_r = 39.039$ ;

Date: 2015.09.13

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

Ambient Temperature: 23.6  $^{\circ}$ C; Liquid Temperature: 22.8  $^{\circ}$ C

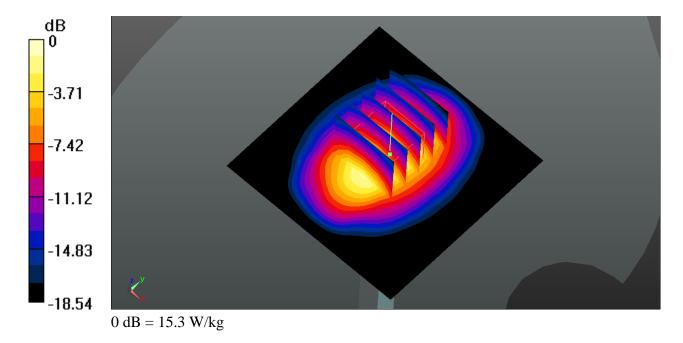
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

# **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 15.3 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 101.7 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 19.1 W/kg SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.48 W/kg

Maximum value of SAR (measured) = 14.8 W/kg



## System Check\_Head\_2450MHz\_150913

### **DUT: D2450V2-SN:926**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: HSL\_2450\_150913 Medium parameters used: f = 2450 MHz;  $\sigma = 1.82$  S/m;  $\epsilon_r = 39.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.13

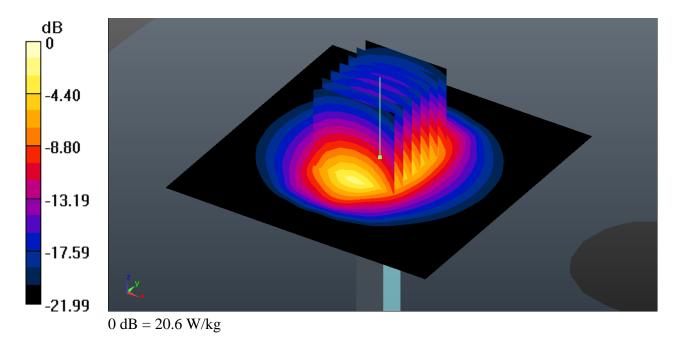
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

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

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

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 92.02 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 27.7 W/kg SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.26 W/kg Maximum value of SAR (measured) = 20.6 W/kg



## System Check\_Head\_5250MHz\_150913

### **DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL\_5300\_150913 Medium parameters used: f = 5250 MHz;  $\sigma = 4.748$  S/m;  $\epsilon_r = 36.885$ ;

Date: 2015.09.13

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

Ambient Temperature: 23.6  $^{\circ}$ C; Liquid Temperature: 22.9  $^{\circ}$ C

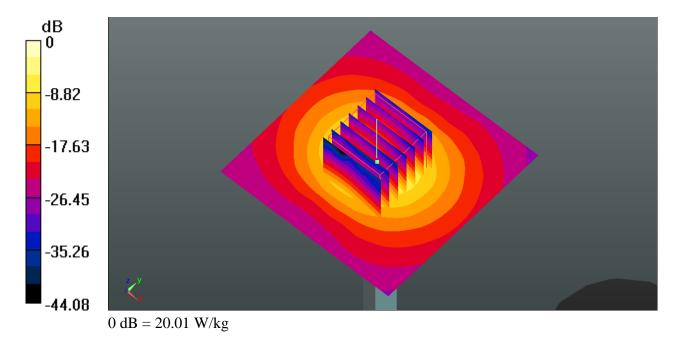
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(5.77, 5.77, 5.77); Calibrated: 2015.07.23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

## **Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 20.01 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 57.52 V/m; Power Drift = -0.16 dB Peak SAR (extrapolated) = 35.3 W/kg SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 21.09 W/kg



## System Check\_Head\_5600MHz\_150913

### **DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL\_5600\_150913 Medium parameters used: f = 5600 MHz;  $\sigma = 5.129$  S/m;  $\varepsilon_r = 35.495$ ;

Date: 2015.09.13

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

**Ambient Temperature**: 23.7 °C ; **Liquid Temperature**: 22.9 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(4.95, 4.95, 4.95); Calibrated: 2015.07.23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 20.9 W/kg

**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 56.98 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.31 W/kgMaximum value of SAR (measured) = 21.6 W/kg

-8.39
-16.78
-25.18
-33.57
-41.96

0 dB = 20.9 W/kg

## System Check\_Head\_5750MHz\_150913

### **DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium: HSL\_5800\_150913 Medium parameters used: f = 5750 MHz;  $\sigma = 5.152$  S/m;  $\epsilon_r = 35.85$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.13

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

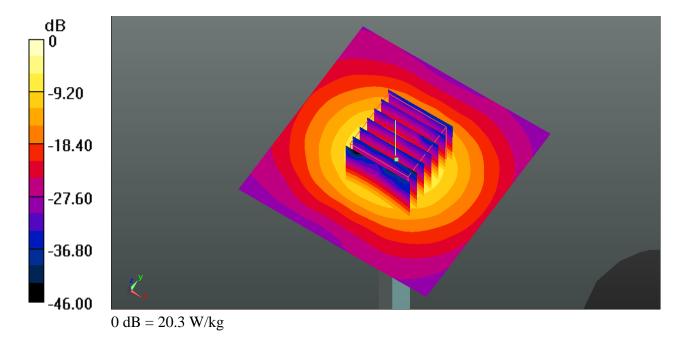
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(5.15, 5.15, 5.15); Calibrated: 2015.07.23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 20.3 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 54.45 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 35.8 W/kg SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 20.9 W/kg



## System Check\_Body\_750MHz\_150910

### **DUT: D750V3-SN:1065**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1 Medium: MSL\_750\_150910 Medium parameters used: f = 750 MHz;  $\sigma = 0.971$  S/m;  $\epsilon_r = 54.634$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.10

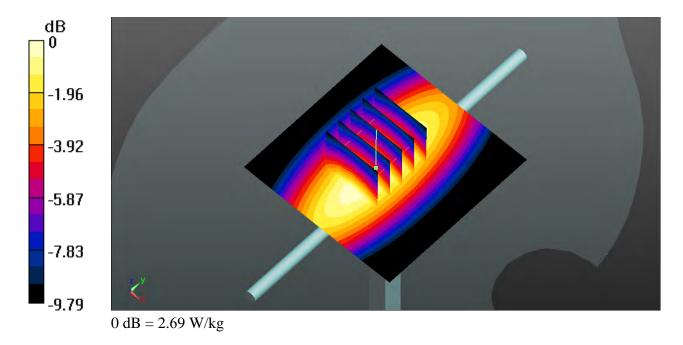
Ambient Temperature: 23.4  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(10.05, 10.05, 10.05); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

# **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.69 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 44.93 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.16 W/kg SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.49 W/kg Maximum value of SAR (measured) = 2.68 W/kg



## System Check\_Body\_835MHz\_150910

### DUT: D835V2-SN:4d091

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

Medium: MSL\_835\_150910 Medium parameters used: f = 835 MHz;  $\sigma$  = 0.994 S/m;  $\epsilon_r$  = 54.578;  $\rho$ 

Date: 2015.09.10

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

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

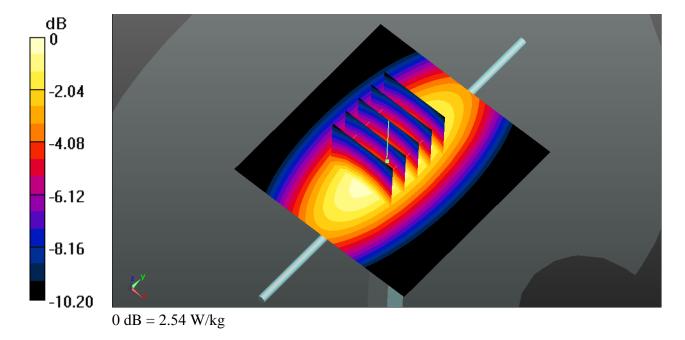
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

# **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.54 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 48.35 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.33 W/kg SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 2.52 W/kg



## System Check\_Body\_835MHz\_150911

### DUT: D835V2-SN:4d091

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

Medium: MSL\_835\_150911 Medium parameters used: f = 835 MHz;  $\sigma$  = 0.974 S/m;  $\epsilon_r$  = 54.283;  $\rho$ 

Date: 2015.09.11

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

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

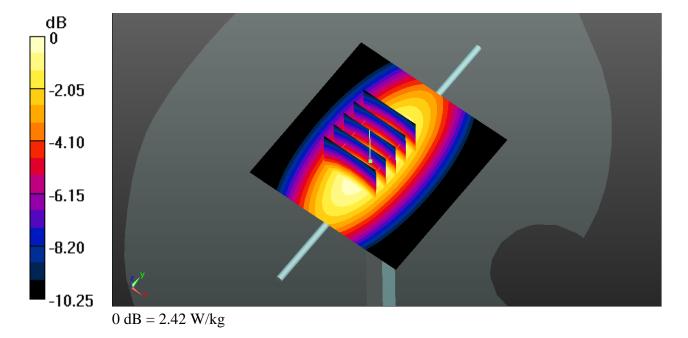
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

# **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.42 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 46.19 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.31 W/kg SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.49 W/kg

Maximum value of SAR (measured) = 2.41 W/kg



## System Check\_Body\_1750MHz\_150907

### DUT: D1750V2-SN:1069

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

Medium: MSL\_1800\_150907 Medium parameters used: f = 1750 MHz;  $\sigma = 1.527$  S/m;  $\varepsilon_r = 51.995$ ;

Date: 2015.09.07

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

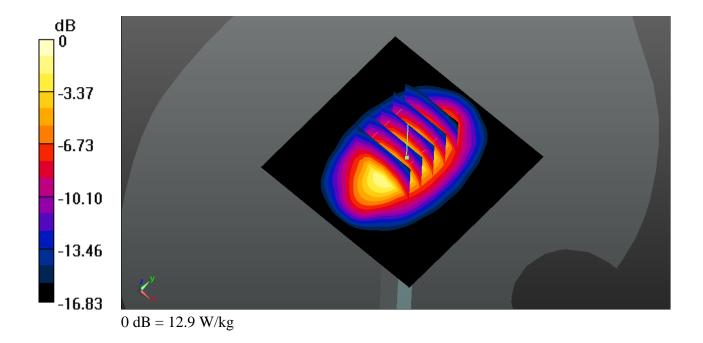
**Ambient Temperature**: 23.3 °C ; **Liquid Temperature**: 22.8 °C

### DASY5 Configuration:

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

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 93.48 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 15.8 W/kg SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.9 W/kg Maximum value of SAR (measured) = 12.7 W/kg



## System Check\_Body\_1900MHz\_150908

### DUT: D1900V2-SN:5d118

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

Medium: MSL\_1900\_150908 Medium parameters used: f = 1900 MHz;  $\sigma = 1.542 \text{ S/m}$ ;  $\varepsilon_r = 53.532$ ;

Date: 2015.09.08

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

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

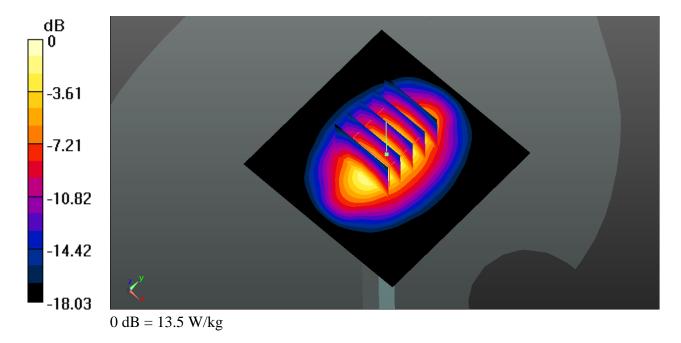
### DASY5 Configuration:

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

# **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 83.10 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 17.0 W/kg SAR(1 g) = 9.46 W/kg; SAR(10 g) = 4.92 W/kg

Maximum value of SAR (measured) = 13.2 W/kg



## System Check\_Body\_1900MHz\_150909

### DUT: D1900V2-SN:5d118

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

Medium: MSL\_1900\_150909 Medium parameters used: f = 1900 MHz;  $\sigma = 1.519$  S/m;  $\varepsilon_r = 53.569$ ;

Date: 2015.09.09

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

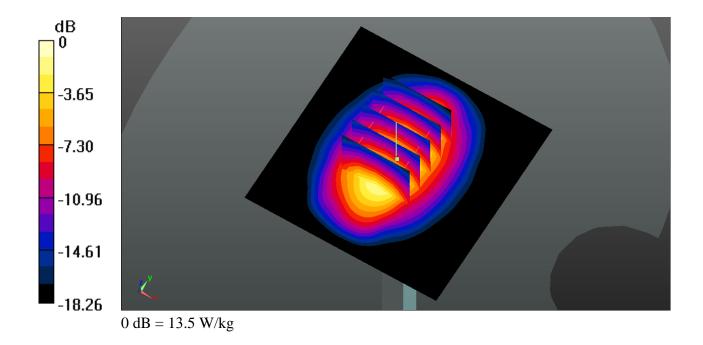
**Ambient Temperature**: 23.4 °C ; **Liquid Temperature**: 22.9 °C

### DASY5 Configuration:

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

## **Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.5 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 79.91 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 16.9 W/kg SAR(1 g) = 9.59 W/kg; SAR(10 g) = 5.03 W/kg Maximum value of SAR (measured) = 13.5 W/kg



## System Check\_Body\_2450MHz\_150913

### **DUT: D2450V2-SN:926**

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

Medium: MSL\_2450\_150913 Medium parameters used: f = 2450 MHz;  $\sigma = 1.913$  S/m;  $\varepsilon_r = 50.974$ ;

Date: 2015.09.13

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

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

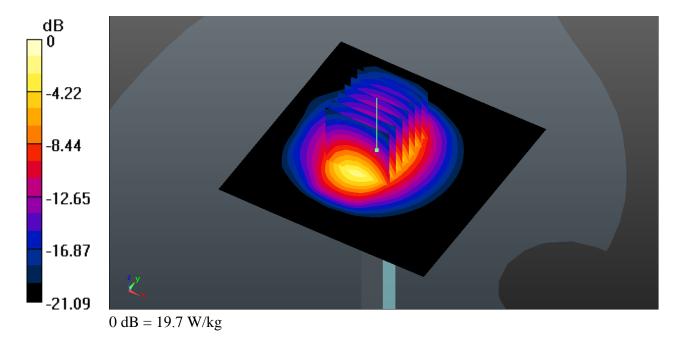
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.55, 7.55, 7.55); Calibrated: 2015.02.26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

# **Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 19.7 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 75.66 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 25.9 W/kg SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



## System Check\_Body\_5250MHz\_150914

### **DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: MSL\_5300\_150914 Medium parameters used: f = 5250 MHz;  $\sigma = 5.267$  S/m;  $\epsilon_r = 50.874$ ;

Date: 2015.09.14

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

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

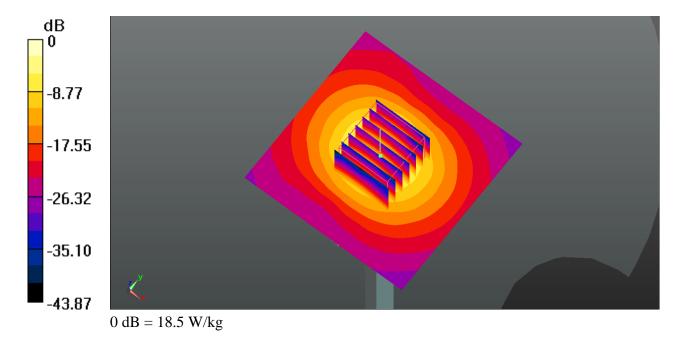
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(4.27, 4.27, 4.27); Calibrated: 2015.02.26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

## **Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 18.5 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 47.92 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 32.0 W/kg SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 19.4 W/kg



## System Check\_Body\_5600MHz\_150914

### **DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: MSL\_5600\_150914 Medium parameters used: f = 5600 MHz;  $\sigma = 5.851$  S/m;  $\varepsilon_r = 50.235$ ;

Date: 2015.09.14

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

Ambient Temperature: 23.2  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(3.63, 3.63, 3.63); Calibrated: 2015.02.26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

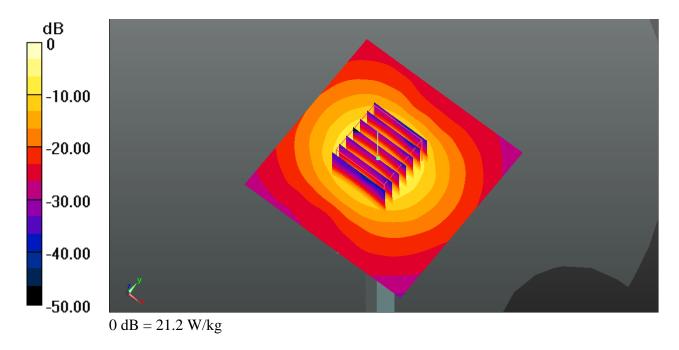
**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 21.2 W/kg

**Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 44.82 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 35.2 W/kg

SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 20.1 W/kg



## System Check\_Body\_5750MHz\_150914

### **DUT: D5GHzV2-SN:1167**

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: MSL\_5800\_150914 Medium parameters used: f = 5750 MHz;  $\sigma = 6.078$  S/m;  $\varepsilon_r = 49.876$ ;

Date: 2015.09.14

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

Ambient Temperature: 23.2 ℃; Liquid Temperature: 22.8 ℃

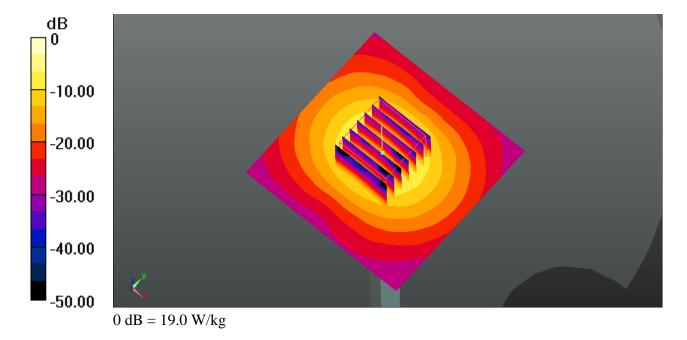
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(4, 4, 4); Calibrated: 2015.02.26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

## **Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 19.0 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 44.41 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 32.6 W/kg SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.13 W/kg

SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.13 W/kg Maximum value of SAR (measured) = 19.1 W/kg



## Appendix B. Plots of SAR Measurement

Report No. : FA582501

The plots are shown as follows.

SPORTON INTERNATIONAL (SHENZHEN) INC.

## 01\_GSM850\_GPRS(4 Tx slots)\_Right Cheek\_Ch128

Communication System: UID 0, GPRS/EDGE33 (0); Frequency: 824.2 MHz; Duty Cycle: 1:2.08 Medium: HSL\_835\_150911 Medium parameters used: f = 824.2 MHz;  $\sigma = 0.892$  S/m;  $\epsilon_r = 40.852$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

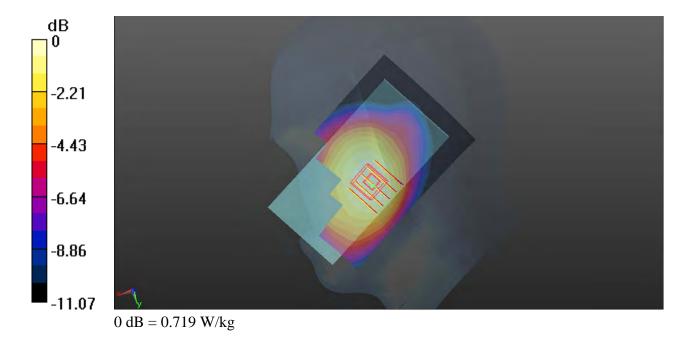
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch128/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.719 W/kg

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.322 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.825 W/kg SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.509 W/kg Maximum value of SAR (measured) = 0.738 W/kg



## 02\_GSM1900\_GPRS(4 Tx slots)\_Left Cheek\_Ch512

Communication System: UID 0, GPRS/EDGE33 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: HSL\_1900\_150912 Medium parameters used: f = 1850.2 MHz;  $\sigma = 1.369$  S/m;  $\epsilon_r = 40.567$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.12

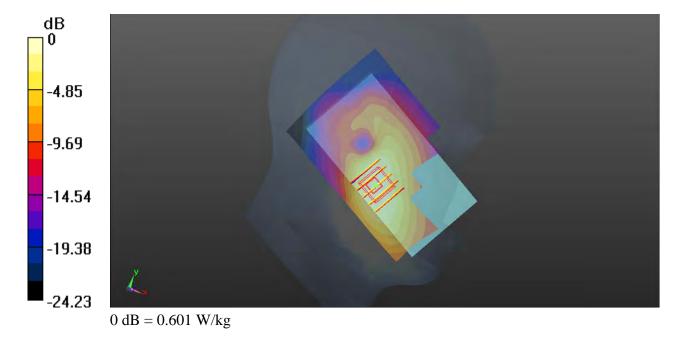
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch512/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.601 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.954 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.712 W/kg SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.291 W/kg Maximum value of SAR (measured) = 0.592 W/kg



## 03\_WCDMA V\_RMC 12.2Kbps\_Right Cheek\_Ch4233

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

Medium: HSL\_835\_150911 Medium parameters used: f = 846.6 MHz;  $\sigma = 0.911$  S/m;  $\varepsilon_r = 40.638$ ;

Date: 2015.09.11

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

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.621 W/kg

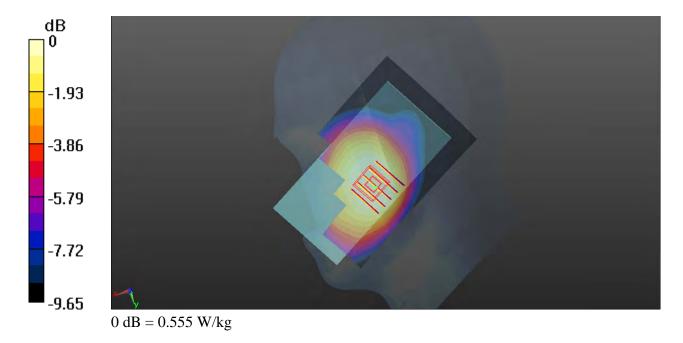
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.081 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.383 W/kg

Maximum value of SAR (measured) = 0.555 W/kg



## 04\_WCDMA IV\_RMC 12.2Kbps\_Left Cheek\_Ch1513

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

Medium: HSL\_1800\_150916 Medium parameters used: f = 1752.6 MHz;  $\sigma = 1.377$  S/m;  $\epsilon_r = 41.374$ ;

Date: 2015.09.16

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.52, 8.52, 8.52); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

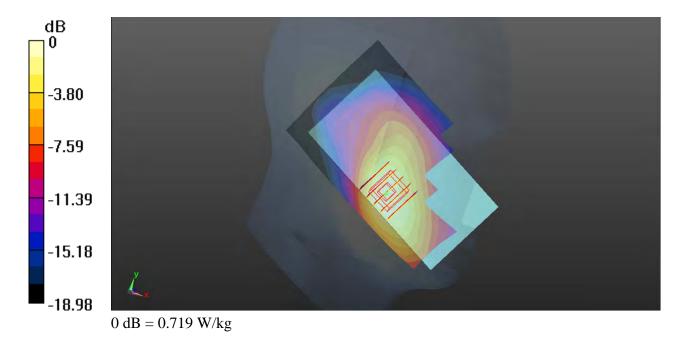
**Ch1513/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.719 W/kg

**Ch1513/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.472 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.840 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.365 W/kg

Maximum value of SAR (measured) = 0.722 W/kg



## 05\_WCDMA II\_RMC 12.2Kbps\_Left Cheek\_Ch9538

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_150912 Medium parameters used: f = 1908 MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 40.307$ ;

Date: 2015.09.12

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

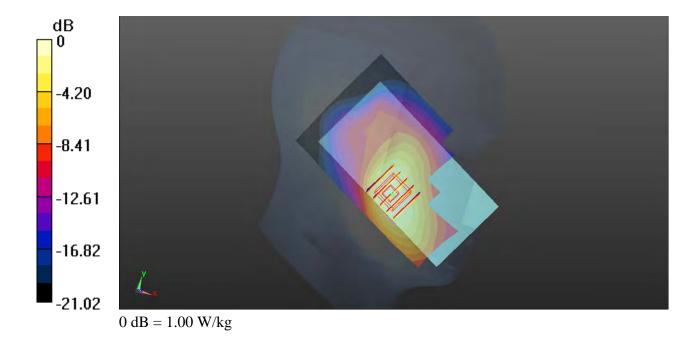
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch9538/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.00 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.991 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 1.21 W/kg SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.482 W/kg Maximum value of SAR (measured) = 0.984 W/kg



Communication System: UID 0, CDMA2000 (0); Frequency: 824.7 MHz; Duty Cycle: 1:1 Medium: HSL\_835\_150911 Medium parameters used: f = 824.7 MHz;  $\sigma = 0.893$  S/m;  $\epsilon_r = 40.848$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

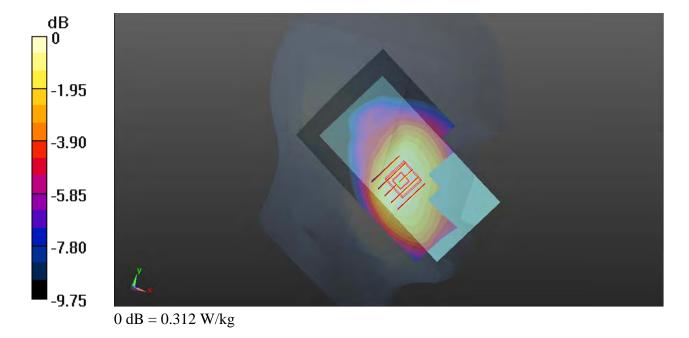
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1013/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.312 W/kg

Ch1013/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.066 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.346 W/kg SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.214 W/kg Maximum value of SAR (measured) = 0.317 W/kg



## 07\_CDMA2000 BC1\_RC3+SO55\_Left Cheek\_Ch1175

Communication System: UID 0, CDMA2000 (0); Frequency: 1908.75 MHz; Duty Cycle: 1:1 Medium: HSL\_1900\_150913 Medium parameters used: f=1909 MHz;  $\sigma=1.461$  S/m;  $\epsilon_r=38.99$ ;  $\rho=1000$  kg/m<sup>3</sup>

Date: 2015.09.13

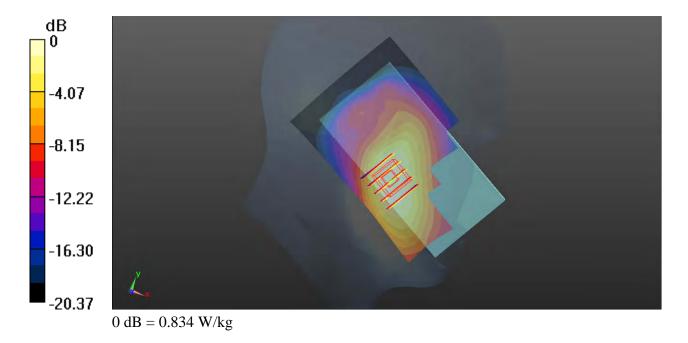
Ambient Temperature: 23.6  $^{\circ}$ C; Liquid Temperature: 22.8  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch1175/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.834 W/kg

Ch1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.714 V/m; Power Drift = -0.17 dB Peak SAR (extrapolated) = 0.988 W/kg SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.405 W/kg Maximum value of SAR (measured) = 0.816 W/kg



Communication System: UID 0, LTE (0); Frequency: 711 MHz; Duty Cycle: 1:1 Medium: HSL\_750\_150917 Medium parameters used: f=711 MHz;  $\sigma=0.871$  S/m;  $\epsilon_r=41.815$ ;  $\rho=1000$  kg/m<sup>3</sup>

Date: 2015.09.17

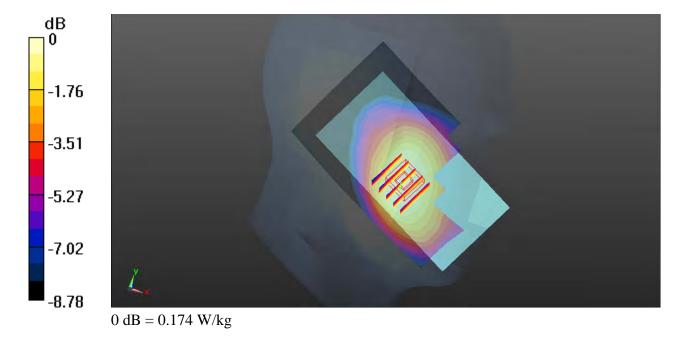
Ambient Temperature: 23.3  $^{\circ}$ C; Liquid Temperature: 22.5  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(10.33, 10.33, 10.33); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23130/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.174 W/kg

Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0.8400 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.185 W/kg SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.121 W/kg Maximum value of SAR (measured) = 0.172 W/kg



Communication System: UID 0, LTE (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_150917 Medium parameters used: f=710 MHz;  $\sigma=0.87$  S/m;  $\epsilon_r=41.819$ ;  $\rho=1000$  kg/m<sup>3</sup>

Date: 2015.09.17

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.5 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(10.33, 10.33, 10.33); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch23790/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.170 W/kg

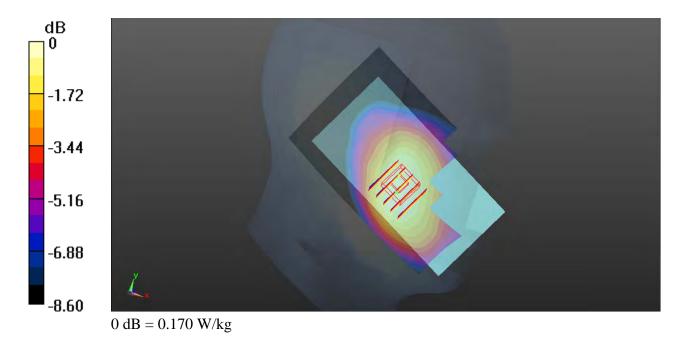
Ch23790/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.015 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.119 W/kg

Maximum value of SAR (measured) = 0.168 W/kg



Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1 Medium: HSL\_835\_150912 Medium parameters used: f = 844 MHz;  $\sigma = 0.905$  S/m;  $\epsilon_r = 40.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.12

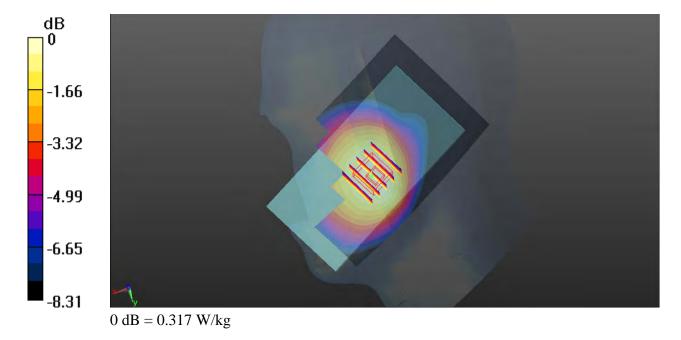
Ambient Temperature: 23.3  $^{\circ}$ C; Liquid Temperature: 22.6  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20600/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.317 W/kg

Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.169 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.363 W/kg SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.229 W/kg Maximum value of SAR (measured) = 0.331 W/kg



Communication System: UID 0, LTE (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_150912 Medium parameters used: f = 841.5 MHz;  $\sigma = 0.902$  S/m;  $\varepsilon_r = 40.725$ ;

Date: 2015.09.12

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

**Ambient Temperature**: 23.3 °C ; **Liquid Temperature**: 22.6 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.96, 9.96, 9.96); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch26965/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.314 W/kg

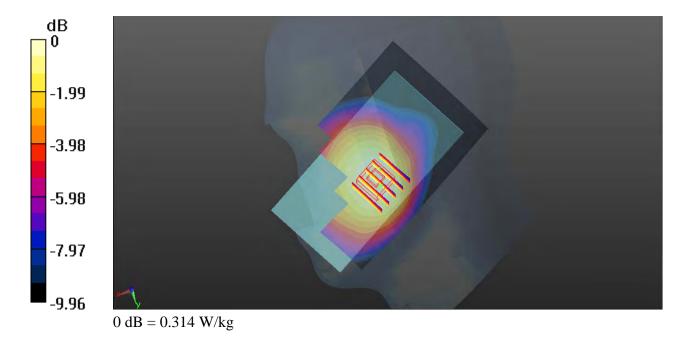
Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.251 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.316 W/kg



Communication System: UID 0, LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL\_1800\_150916 Medium parameters used: f = 1745 MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 41.418$ ;

Date: 2015.09.16

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.52, 8.52, 8.52); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20300/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.556 W/kg

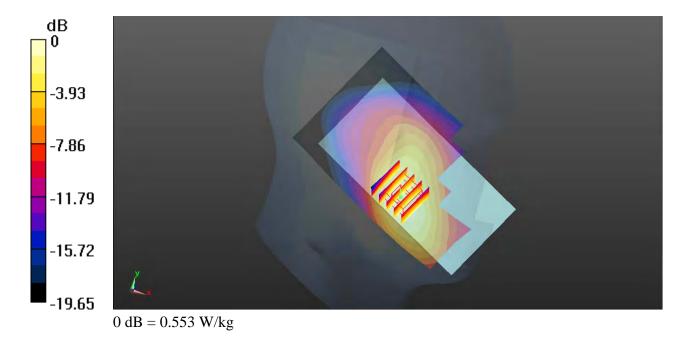
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.781 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.641 W/kg

SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.288 W/kg

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



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

Medium: HSL\_1900\_150912 Medium parameters used: f = 1900 MHz;  $\sigma = 1.419$  S/m;  $\epsilon_r = 40.346$ ;

Date: 2015.09.12

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.646 W/kg

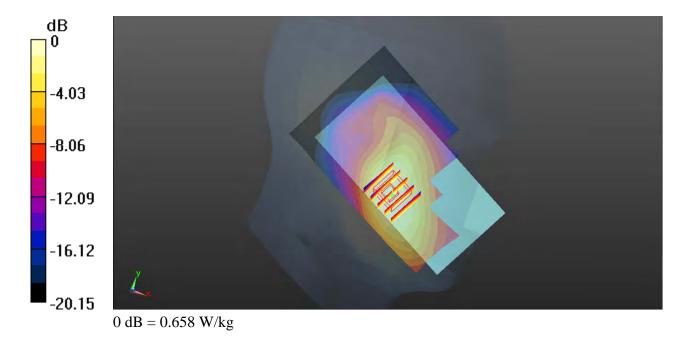
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.806 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.336 W/kg

Maximum value of SAR (measured) = 0.658 W/kg



Communication System: UID 0, LTE (0); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_150912 Medium parameters used: f = 1905 MHz;  $\sigma = 1.424$  S/m;  $\epsilon_r = 40.319$ ;

Date: 2015.09.12

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

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(8.22, 8.22, 8.22); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch26590/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.680 W/kg

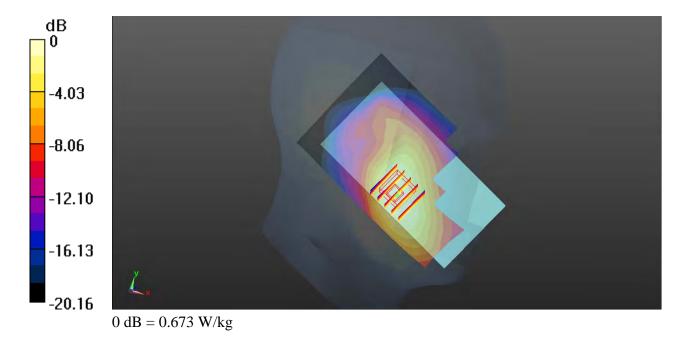
Ch26590/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.851 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.802 W/kg

SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.340 W/kg

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



# 15\_WLAN2.4GHz\_802.11b 1Mbps\_Left Cheek\_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1.011

Medium: HSL\_2450\_150913 Medium parameters used: f = 2462 MHz;  $\sigma = 1.833$  S/m;  $\varepsilon_r = 39.712$ ;

Date: 2015.09.13

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

### DASY5 Configuration:

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

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

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

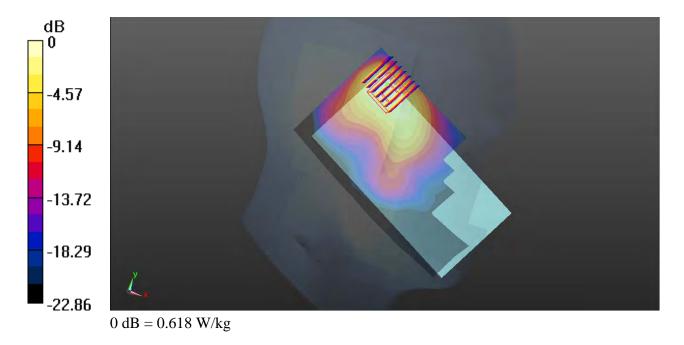
# Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.708 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.618 W/kg



Communication System: UID 0, WIFI (0); Frequency: 5320 MHz; Duty Cycle: 1:1.054

Medium: HSL\_5300\_150913 Medium parameters used: f = 5320 MHz;  $\sigma = 4.835$  S/m;  $\epsilon_r = 36.739$ ;

Date: 2015.09.13

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

Ambient Temperature: 23.6  $^{\circ}$ C; Liquid Temperature: 22.9  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(5.77, 5.77, 5.77); Calibrated: 2015.07.23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch64/Area Scan (101x171x1): Interpolated grid: dx=10mm, dy=10mm

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

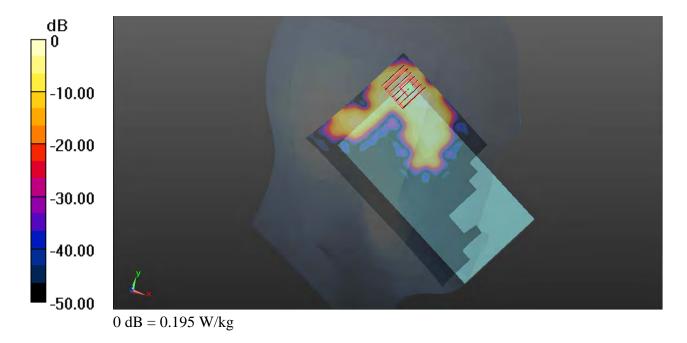
Ch64/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.181 W/kg



Communication System: UID 0, WIFI (0); Frequency: 5500 MHz; Duty Cycle: 1:1.054

Medium: HSL\_5600\_150913 Medium parameters used: f = 5500 MHz;  $\sigma = 5.011$  S/m;  $\epsilon_r = 35.691$ ;

Date: 2015.09.13

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

**Ambient Temperature**: 23.7 °C ; **Liquid Temperature**: 22.9 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(4.95, 4.95, 4.95); Calibrated: 2015.07.23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch100/Area Scan (101x171x1): Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.405 W/kg

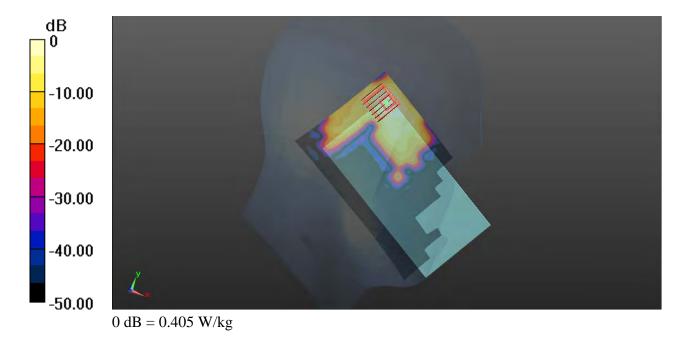
Ch100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.502 W/kg



Communication System: UID 0, WIFI (0); Frequency: 5745 MHz; Duty Cycle: 1:1.054

Medium: HSL\_5800\_150913 Medium parameters used: f = 5745 MHz;  $\sigma$  = 5.144 S/m;  $\epsilon_r$  = 35.862;

Date: 2015.09.13

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(5.15, 5.15, 5.15); Calibrated: 2015.07.23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

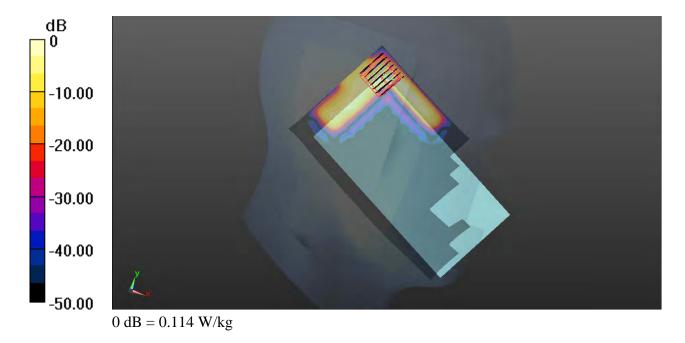
Ch149/Area Scan (101x171x1): Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.137 W/kg

**Ch149/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.169 W/kg

SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.00835 W/kg

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



## 19 GSM850 GPRS(4 Tx slots) Right Side 10mm Ch189

Communication System: UID 0, GPRS/EDGE33 (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.08 Medium: MSL\_835\_150911 Medium parameters used: f=836.4 MHz;  $\sigma=0.976$  S/m;  $\epsilon_r=54.27$ ;  $\rho=1000$  kg/m<sup>3</sup>

Date: 2015.09.11

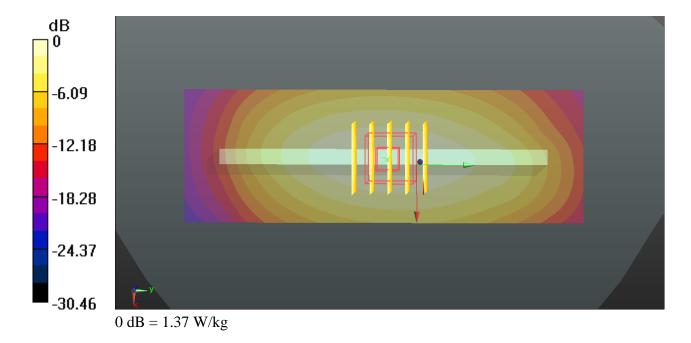
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch189/Area Scan (41x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.37 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.396 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 1.56 W/kg SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.734 W/kg Maximum value of SAR (measured) = 1.38 W/kg



## 20 GSM1900 GPRS(4 Tx slots) Left Side 10mm Ch512

Communication System: UID 0, GPRS/EDGE33(0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: MSL\_1900\_150909 Medium parameters used: f = 1850.2 MHz;  $\sigma = 1.459$  S/m;  $\epsilon_r = 53.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.09

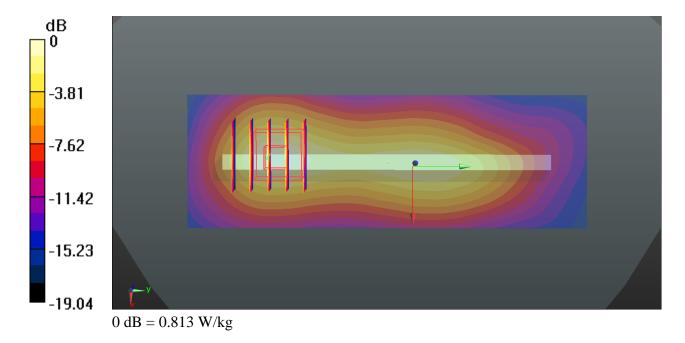
Ambient Temperature: 23.4  $^{\circ}$ C; Liquid Temperature: 22.9  $^{\circ}$ C

### DASY5 Configuration:

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

Ch512/Area Scan (41x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.813 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.756 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.954 W/kg SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.313 W/kg Maximum value of SAR (measured) = 0.760 W/kg



# 21\_WCDMA V\_RMC 12.2Kbps\_Right Side\_10mm\_Ch4132

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: MSL\_835\_150911 Medium parameters used: f = 826.4 MHz;  $\sigma = 0.966$  S/m;  $\epsilon_r = 54.341$ ;

Date: 2015.09.11

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

Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch4132/Area Scan (41x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.05 W/kg

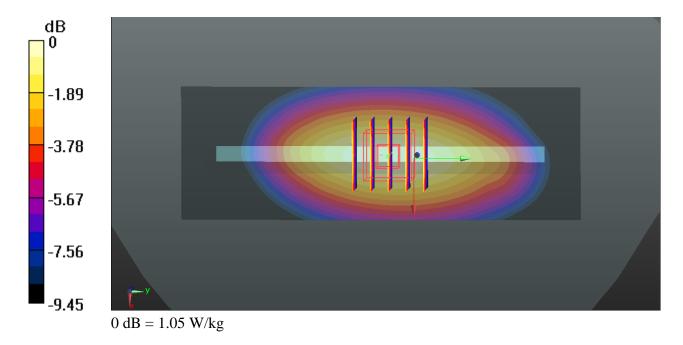
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.790 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.848 W/kg; SAR(10 g) = 0.583 W/kg

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



## 22 WCDMA IV RMC 12.2Kbps Bottom Side 10mm Ch1312

Communication System: UID 0, UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1 Medium: MSL\_1800\_150907 Medium parameters used: f = 1712.4 MHz;  $\sigma = 1.486$  S/m;  $\epsilon_r = 52.156$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.07

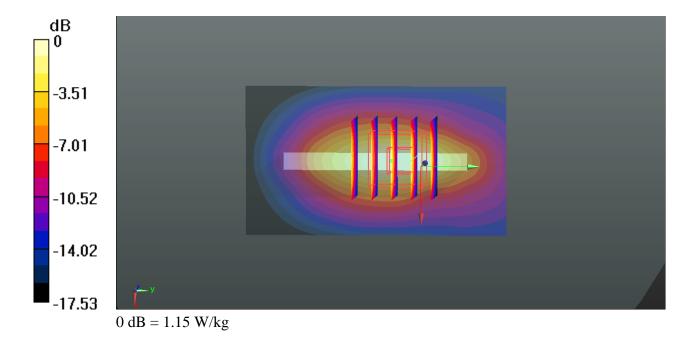
**Ambient Temperature**: 23.3 °C ; **Liquid Temperature**: 22.8 °C

### DASY5 Configuration:

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

**Ch1312/Area Scan (41x71x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.15 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.027 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.46 W/kg SAR(1 g) = 0.844 W/kg; SAR(10 g) = 0.448 W/kg Maximum value of SAR (measured) = 1.16 W/kg



# 23\_WCDMA II\_RMC 12.2Kbps\_Bottom Side\_10mm\_Ch9538

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_150909 Medium parameters used: f = 1907.6 MHz;  $\sigma = 1.527$  S/m;  $\epsilon_r = 53.556$ ;

Date: 2015.09.09

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

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

### DASY5 Configuration:

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

Ch9538/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

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

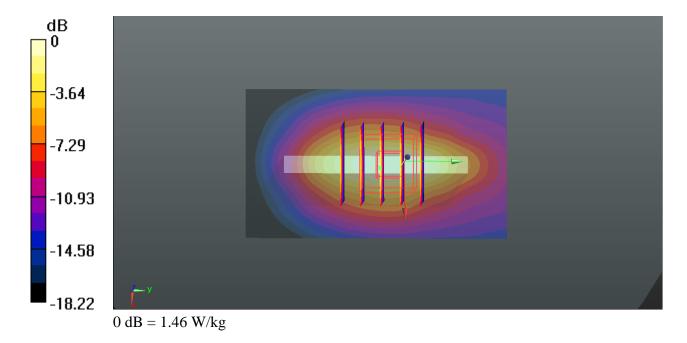
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.107 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.998 W/kg; SAR(10 g) = 0.530 W/kg

Maximum value of SAR (measured) = 1.38 W/kg



## 24 CDMA2000 BC0 RTAP 153.6Kbps Right Side 10mm Ch1013

Communication System: UID 0, CDMA2000 (0); Frequency: 824.7 MHz; Duty Cycle: 1:1 Medium: MSL\_835\_150911 Medium parameters used: f = 8260 MHz;  $\sigma = 0.965$  S/m;  $\epsilon_r = 54.352$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

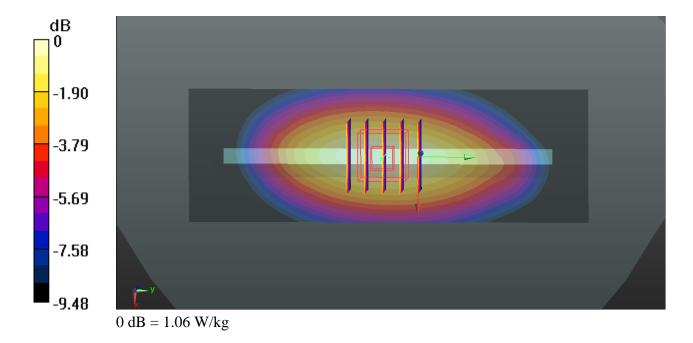
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch1013/Area Scan (41x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.06 W/kg

Ch1013/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.820 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 1.22 W/kg SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.589 W/kg Maximum value of SAR (measured) = 1.06 W/kg



Communication System: UID 0, CDMA2000 (0); Frequency: 1851.25 MHz; Duty Cycle: 1:1 Medium: MSL\_1900\_150909 Medium parameters used: f = 1851.25 MHz;  $\sigma = 1.461$  S/m;  $\epsilon_r = 53.588$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.09

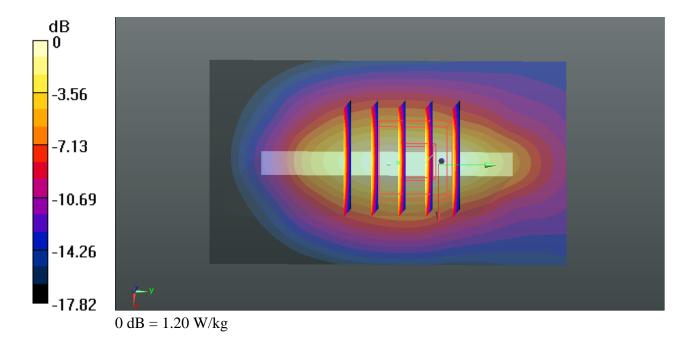
Ambient Temperature: 23.4  $^{\circ}$ C; Liquid Temperature: 22.9  $^{\circ}$ C

### DASY5 Configuration:

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

Ch25/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.22 W/kg

Ch25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.743 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.50 W/kg SAR(1 g) = 0.858 W/kg; SAR(10 g) = 0.456 W/kg Maximum value of SAR (measured) = 1.20 W/kg



Communication System: UID 0, LTE (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium: MSL\_750\_150910 Medium parameters used: f = 711 MHz;  $\sigma = 0.944$  S/m;  $\epsilon_r = 55.545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.10

Ambient Temperature: 23.4  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(10.05, 10.05, 10.05); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23130/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.324 W/kg

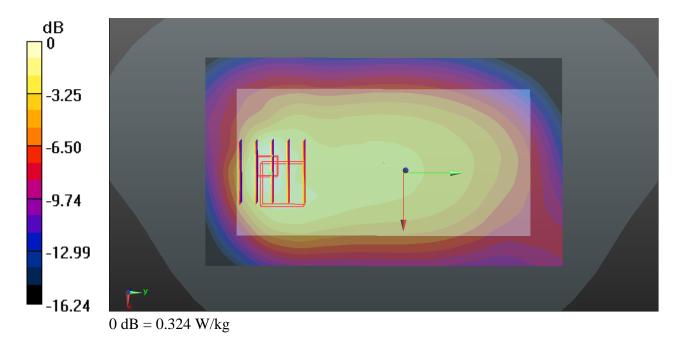
Ch23130/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.628 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.314 W/kg



Communication System: UID 0, LTE (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium: MSL\_750\_150910 Medium parameters used: f = 710 MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 55.557$ ;  $\rho$ 

Date: 2015.09.10

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

**Ambient Temperature**: 23.4 °C; **Liquid Temperature**: 22.7 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(10.05, 10.05, 10.05); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch23790/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.398 W/kg

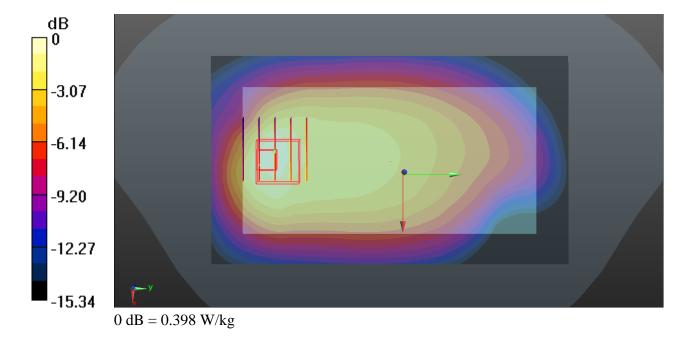
Ch23790/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.806 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.368 W/kg



Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium: MSL\_835\_150910 Medium parameters used: f = 844 MHz;  $\sigma = 1.004$  S/m;  $\epsilon_r = 54.492$ ;  $\rho$ 

Date: 2015.09.10

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20600/Area Scan (41x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.598 W/kg

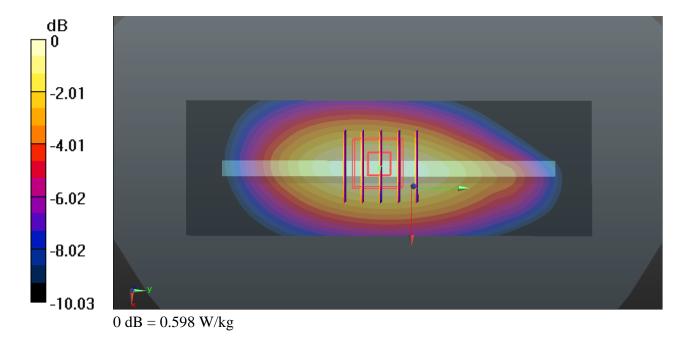
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.359 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.688 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 0.592 W/kg



Communication System: UID 0, LTE (0); Frequency: 841.5 MHz; Duty Cycle: 1:1 Medium: MSL\_835\_150910 Medium parameters used: f = 841.5 MHz;  $\sigma = 1.001$  S/m;  $\epsilon_r = 54.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.10

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

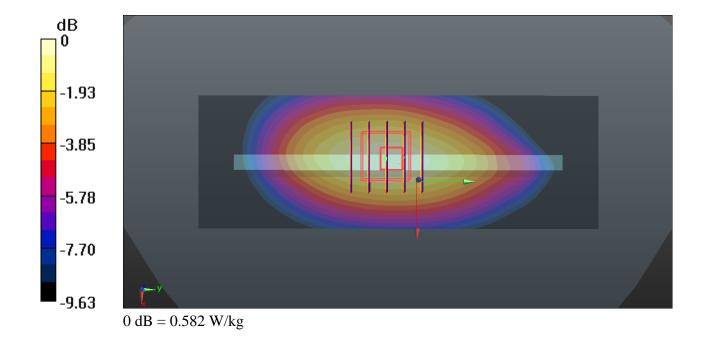
### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch26965/Area Scan (41x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.582 W/kg

Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.296 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.664 W/kg SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 0.573 W/kg



Communication System: UID 0, LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: MSL\_1800\_150907 Medium parameters used: f = 1745 MHz;  $\sigma = 1.521$  S/m;  $\varepsilon_r = 52.012$ ;

Date: 2015.09.07

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

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

### DASY5 Configuration:

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

Ch20300/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.892 W/kg

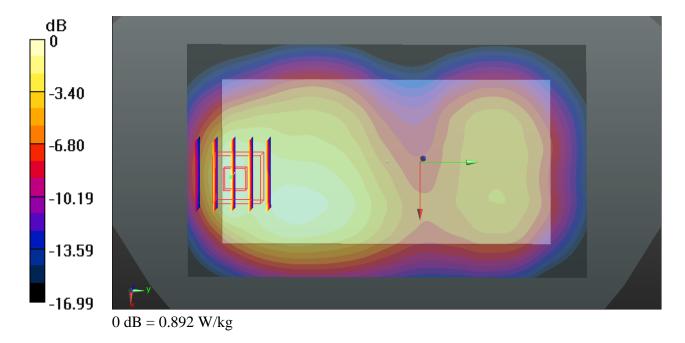
Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.869 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.381 W/kg

Maximum value of SAR (measured) = 0.972 W/kg



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

Medium: MSL\_1900\_150908 Medium parameters used: f = 1900 MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 53.532$ ;

Date: 2015.09.08

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

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

### DASY5 Configuration:

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

Ch19100/Area Scan (41x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.23 W/kg

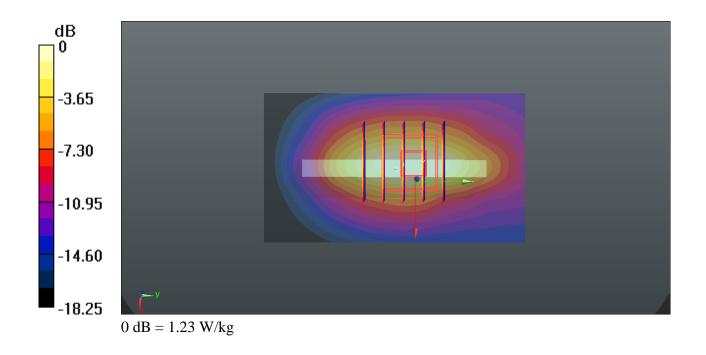
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.138 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.455 W/kg

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



Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_150908 Medium parameters used: f = 1860 MHz;  $\sigma = 1.494$  S/m;  $\epsilon_r = 53.606$ ;

Date: 2015.09.08

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

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

### DASY5 Configuration:

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

**Ch26140/Area Scan (41x71x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.20 W/kg

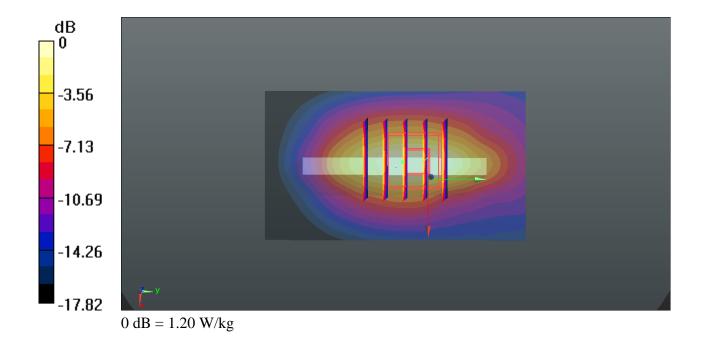
Ch26140/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.022 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.845 W/kg; SAR(10 g) = 0.444 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



# 33\_WLAN2.4GHz\_802.11b 1Mbps\_Right Side\_10mm\_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1.011

Medium: MSL\_2450\_150913 Medium parameters used: f = 2462 MHz;  $\sigma = 1.932$  S/m;  $\varepsilon_r = 50.908$ ;

Date: 2015.09.13

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.55, 7.55, 7.55); Calibrated: 2015.02.26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

# Ch11/Area Scan (41x141x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.197 W/kg

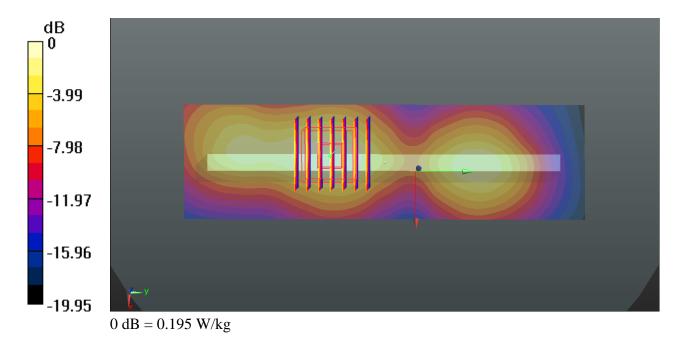
### Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.025 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.072 W/kg

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



# 34\_GSM850\_GPRS(4 Tx slots)\_Back\_10mm\_Ch128

Communication System: UID 0, GPRS/EDGE33 (0); Frequency: 824.2 MHz; Duty Cycle: 1:2.08 Medium: MSL\_835\_150911 Medium parameters used: f = 824.2 MHz;  $\sigma = 0.964$  S/m;  $\epsilon_r = 54.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

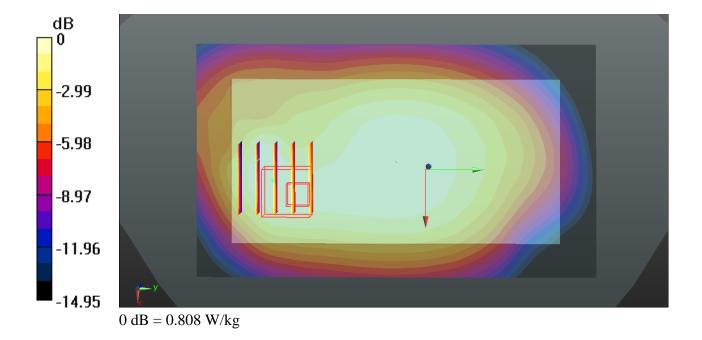
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch128/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.808 W/kg

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.131 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 1.05 W/kg SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.438 W/kg Maximum value of SAR (measured) = 0.819 W/kg



## 35 GSM1900 GPRS(4 Tx slots) Back 10mm Ch512

Communication System: UID 0, GPRS/EDGE33 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: MSL\_1900\_150909 Medium parameters used: f = 1850.2 MHz;  $\sigma = 1.459$  S/m;  $\epsilon_r = 53.59$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.09

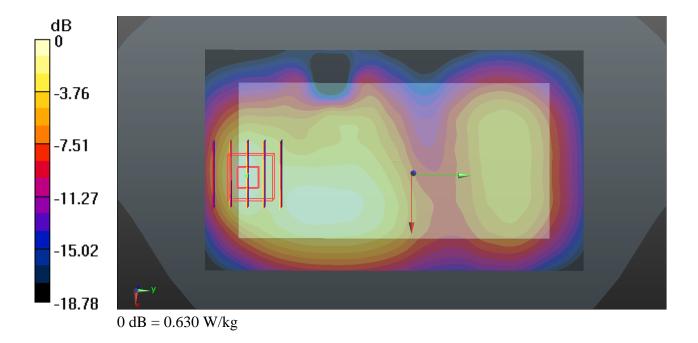
Ambient Temperature: 23.4  $^{\circ}$ C; Liquid Temperature: 22.9  $^{\circ}$ C

### DASY5 Configuration:

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

**Ch512/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.630 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.596 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.917 W/kg SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.257 W/kg Maximum value of SAR (measured) = 0.717 W/kg



# 36\_WCDMA V\_RMC 12.2Kbps\_Back\_10mm\_Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz;Duty Cycle: 1:1 Medium: MSL\_835\_150911 Medium parameters used: f = 847 MHz;  $\sigma = 0.985$  S/m;  $\epsilon_r = 54.178$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

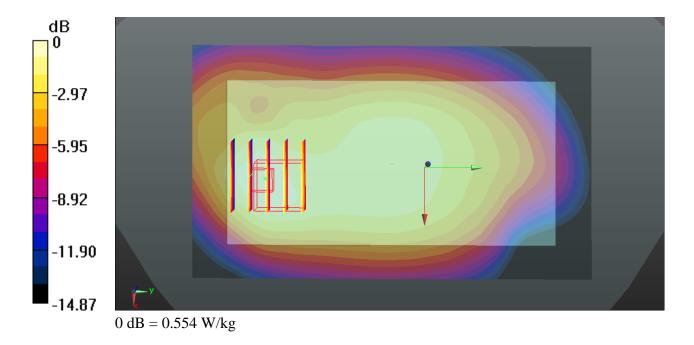
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4233/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.554 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.391 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.729 W/kg SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.308 W/kg Maximum value of SAR (measured) = 0.579 W/kg



# 37\_WCDMA IV\_RMC 12.2Kbps\_Back\_10mm\_Ch1312

Communication System: UID 0, UMTS (0); Frequency: 1712.4 MHz;Duty Cycle: 1:1 Medium: MSL\_1800\_150907 Medium parameters used: f = 1712.4 MHz;  $\sigma = 1.486$  S/m;  $\epsilon_r = 52.156$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.07

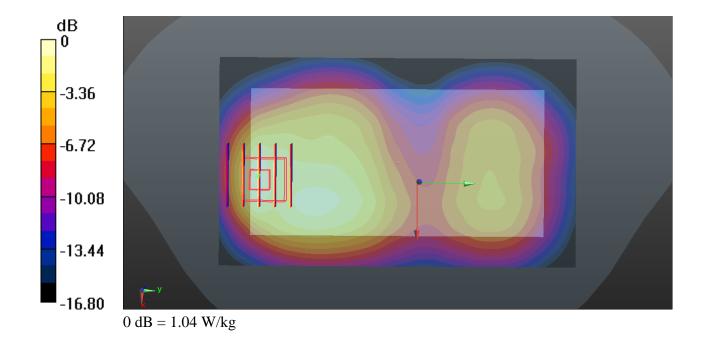
Ambient Temperature: 23.3 °C; Liquid Temperature: 22.8 °C

### DASY5 Configuration:

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

Ch1312/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.04 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.839 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.43 W/kg SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.440 W/kg Maximum value of SAR (measured) = 1.13 W/kg



# 38\_WCDMA II\_RMC 12.2Kbps\_Back\_10mm\_Ch9538

Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_150909 Medium parameters used: f = 1908 MHz;  $\sigma = 1.527$  S/m;  $\varepsilon_r = 53.556$ ;

Date: 2015.09.09

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

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

### DASY5 Configuration:

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

**Ch9538/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.19 W/kg

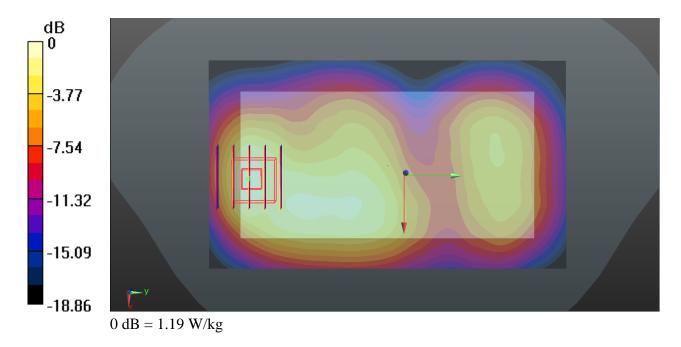
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.469 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.923 W/kg; SAR(10 g) = 0.481 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



# 39\_CDMA2000 BC0\_ RC3+SO32\_Front\_10mm\_Ch1013

Communication System: UID 0, CDMA2000 (0); Frequency: 824.7 MHz; Duty Cycle: 1:1 Medium: MSL\_835\_150911 Medium parameters used: f = 8260 MHz;  $\sigma = 0.965$  S/m;  $\epsilon_r = 54.352$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.11

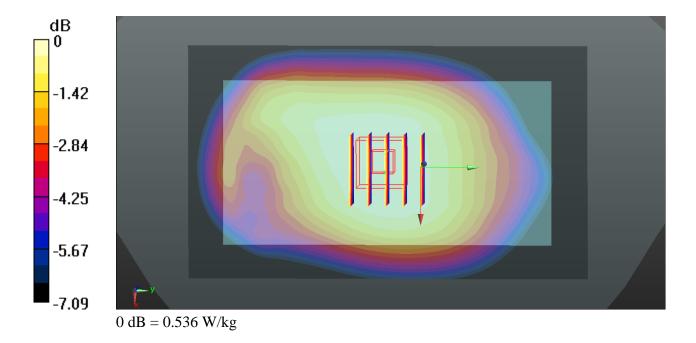
Ambient Temperature: 23.5  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch1013/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.536 W/kg

Ch1013/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.726 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.583 W/kg SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.382 W/kg Maximum value of SAR (measured) = 0.540 W/kg



## 40 CDMA2000 BC1 RC3+SO32 Back 10mm Ch1175

Communication System: UID 0, CDMA2000 (0); Frequency: 1908.75 MHz; Duty Cycle: 1:1 Medium: MSL\_1900\_150909 Medium parameters used: f = 190: @7 MHz;  $\sigma = 1.528$  S/m;  $\epsilon_r = 53.554$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.09

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

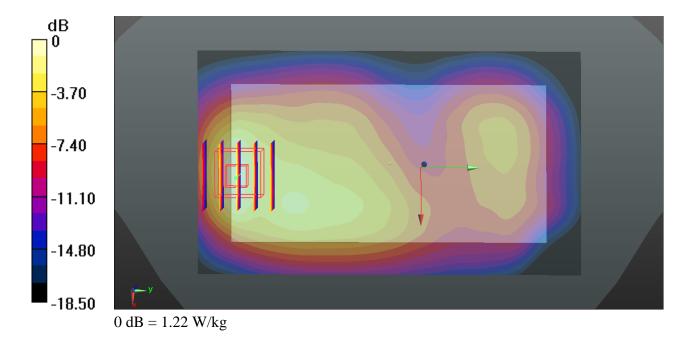
### DASY5 Configuration:

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

**Ch1175/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.21 W/kg

**Ch1175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.520 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.442 W/kgMaximum value of SAR (measured) = 1.22 W/kg



Communication System: UID 0, LTE (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium: MSL\_835\_150910 Medium parameters used: f = 844 MHz;  $\sigma = 1.004$  S/m;  $\epsilon_r = 54.492$ ;  $\rho$ 

Date: 2015.09.10

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch20600/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.517 W/kg

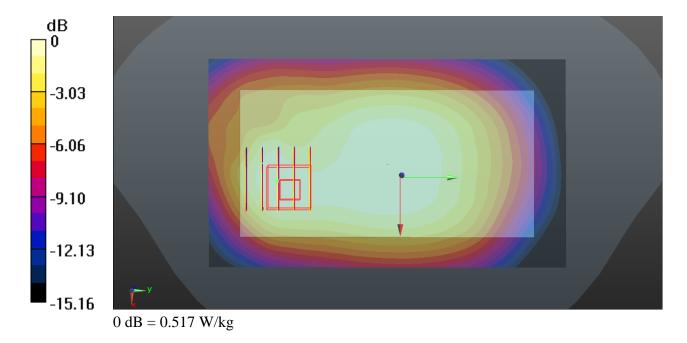
Ch20600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.577 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.625 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.283 W/kg

Maximum value of SAR (measured) = 0.482 W/kg



Communication System: UID 0, LTE (0); Frequency: 841.5 MHz; Duty Cycle: 1:1 Medium: MSL\_835\_150910 Medium parameters used: f = 841.5 MHz;  $\sigma = 1.001$  S/m;  $\epsilon_r = 54.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.10

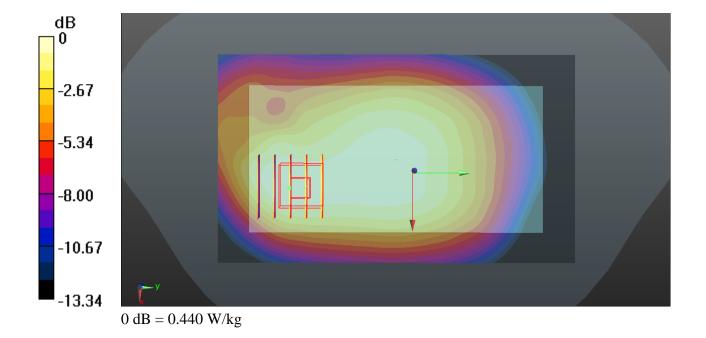
Ambient Temperature: 23.4  $^{\circ}$ C; Liquid Temperature: 22.8  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(9.99, 9.99, 9.99); Calibrated: 2015.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

**Ch26965/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.440 W/kg

Ch26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.291 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.481 W/kg SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.269 W/kg Maximum value of SAR (measured) = 0.441 W/kg



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

Medium: MSL\_1900\_150908 Medium parameters used: f = 1880 MHz;  $\sigma = 1.517$  S/m;  $\epsilon_r = 53.569$ ;

Date: 2015.09.08

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

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

### DASY5 Configuration:

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

Ch18900/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

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

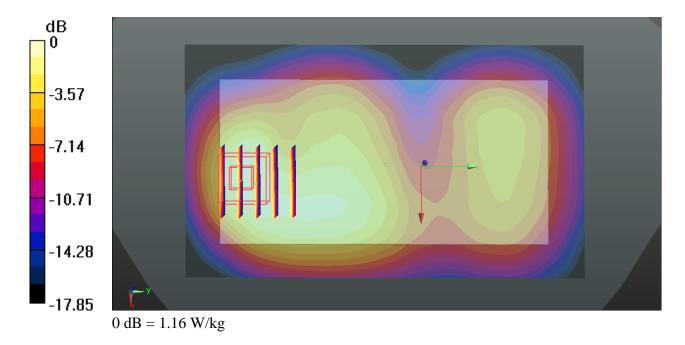
Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.709 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.426 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_150908 Medium parameters used: f = 1860 MHz;  $\sigma = 1.494$  S/m;  $\epsilon_r = 53.606$ ;

Date: 2015.09.08

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

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

### DASY5 Configuration:

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

Ch26140/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

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

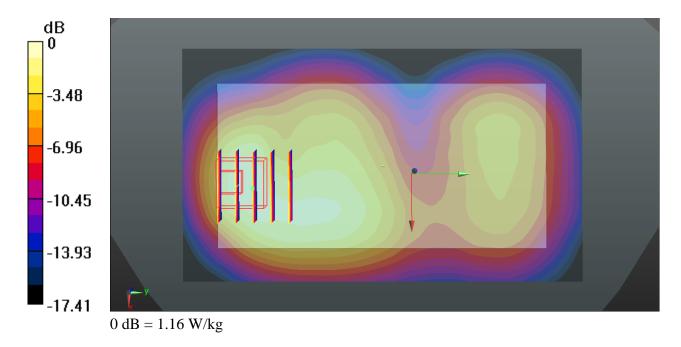
Ch26140/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.934 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.403 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



# 45\_WLAN2.4GHz\_802.11b 1Mbps\_Back\_10mm\_Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1.011

Medium: MSL\_2450\_150913 Medium parameters used: f = 2462 MHz;  $\sigma = 1.932$  S/m;  $\varepsilon_r = 50.908$ ;

Date: 2015.09.13

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(7.55, 7.55, 7.55); Calibrated: 2015.02.26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.140 W/kg

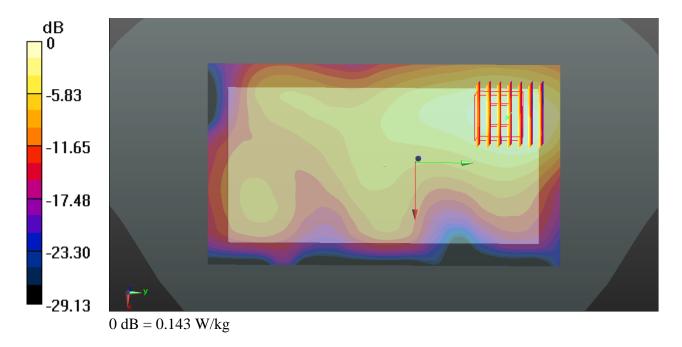
### Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.150 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.143 W/kg



# 46\_WLAN5GHz 5.3GBand\_802.11a 6Mbps\_Back\_10mm\_Ch64

Communication System: UID 0, WIFI (0); Frequency: 5320 MHz; Duty Cycle: 1:1.054 Medium: MSL\_5300\_150914 Medium parameters used: f = 5320 MHz;  $\sigma = 5.38$  S/m;  $\epsilon_r = 50.761$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015.09.14

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(4.27, 4.27, 4.27); Calibrated: 2015.02.26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch64/Area Scan (101x171x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.106 W/kg

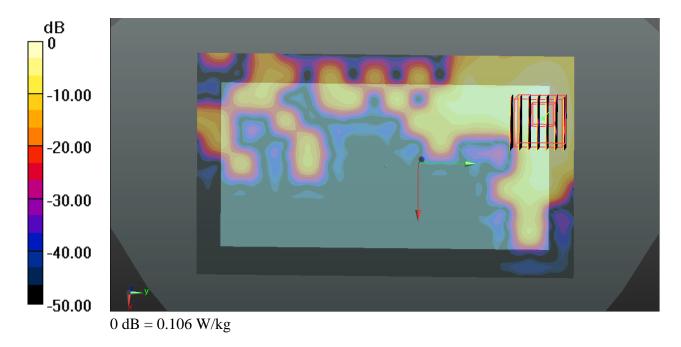
Ch64/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.560 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.191 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.012 W/kg

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



# 47\_WLAN5GHz 5.5GBand \_802.11a 6Mbps\_Back\_10mm\_Ch100

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz; Duty Cycle: 1:1.054

Medium: MSL\_5600\_150914 Medium parameters used: f = 5500 MHz;  $\sigma = 5.686$  S/m;  $\varepsilon_r = 50.476$ ;

Date: 2015.09.14

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

Ambient Temperature: 23.2  $^{\circ}$ C; Liquid Temperature: 22.7  $^{\circ}$ C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(3.63, 3.63, 3.63); Calibrated: 2015.02.26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch100/Area Scan (101x171x1): Interpolated grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.136 W/kg

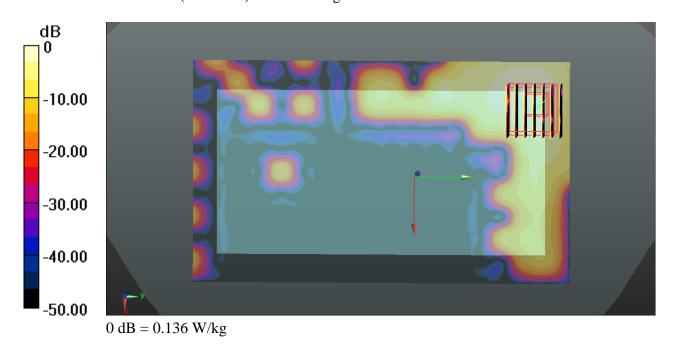
Ch100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.319 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.152 W/kg



Communication System: UID 0, WIFI (0); Frequency: 5745 MHz; Duty Cycle: 1:1.054

Medium: MSL\_5800\_150914 Medium parameters used: f = 5745 MHz;  $\sigma$  = 6.07 S/m;  $\epsilon_r$  = 49.891;  $\rho$ 

Date: 2015.09.14

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

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.8 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3958; ConvF(4, 4, 4); Calibrated: 2015.02.26;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1386; Calibrated: 2015.02.19
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8);SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (101x171x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.0184 W/kg

Ch149/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.9520 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.0880 W/kg

SAR(1 g) = 0.0044 W/kg; SAR(10 g) = 0.000976 W/kg

Maximum value of SAR (measured) = 0.0163 W/kg

