FCC SAR Test Report

APPLICANT : CT Asia

EQUIPMENT : Smartphone

BRAND NAME : BLU

MODEL NAME : LIFE ONE

MARKETING NAME: LIFE ONE

FCC ID : YHLBLULIFEONE50

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

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

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Approved by: Jones Tsai / Manager





Report No.: FA540401

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA540401	Rev. 01	Initial issue of report	May 20, 2015

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **CT Asia, Smartphone, LIFE ONE**, are as follows.

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		Highest SAR Summary				
Equipment Class	Frequency Band	Head (Separation 0mm) 1g SAR (W/kg)	Body-worn (Separation 10mm) 1g SAR (W/kg)	Wireless Router (Separation 10mm) 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)	
	GSM850	0.47	0.86	0.86		
	GSM1900	0.18	0.62	0.62		
PCE	WCDMA Band V	0.20	0.30	0.30		
	WCDMA Band IV	0.14	0.49	0.49	1.38	
	WCDMA Band II	0.12	0.46	0.46		
	LTE Band 17	<0.10	<0.10	<0.10		
	LTE Band 4	0.16	0.50	0.50		
	LTE Band 7	<0.10	0.67	0.99		
DTS	WLAN 2.4GHz Band	1.18	0.30	0.30	1.38	
DSS	Bluetooth	0.20	<0.10	<0.10	0.99	
Date of	Testing:	Apr. 30, 2015 ~ May 13, 2015				

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2. Administration Data

Testing Laboratory				
Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.				
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China			
Test Site Location	TEL: +86-755-8637-9589			
	FAX: +86-755-8637-9595			

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

Manufacturer				
Company Name Tinno Mobile Technology Corp.				
	4/F, H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road.,Nan Shan District, Shenzhen, P.R. 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 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02
- 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)

4.1 General Information

Product Feature & Specification					
Equipment Name	Smartphone				
Brand Name	BLU				
Model Name	LIFE ONE				
Marketing Name	LIFE ONE				
FCC ID	YHLBLULIFEONE50				
IMEI Code	SIM1: 353924027113731 SIM2: 353924027125735				
Wireless Technology and Frequency Range	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 LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Mode	•GSM/GPRS/EGPRS •RMC/AMR 12.2Kbps •HSDPA •HSUPA •HSPA+ (Downlink Only) •LTE: QPSK, 16QAM •802.11b/g/n HT20/HT40 •Bluetooth v3.0+EDR, Bluetooth v4.0 LE				
HW Version	V1.0				
SW Version	BLU_LIFEONE_V04_GENERIC				
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.				
EUT Stage	Pre-Production				
Damarie.					

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Remark:

- 1. This device 2.4GHz supports hotspot operation.
- This device 2.4512 supports hotspot operation.
 The EUT do not support DTM function.
 This device supported VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. 3rd party VoIP).
 This device supports GRPS/EGPRS mode up to multi-slot class 33.
- 5. This device has 2 SIM slots and supports dual SIM dual Standby. SIM 1supports GSM/WCDMA/LTE and SIM 2 supports GSM/WCDMA only. The WWAN radio transmission will be enabled by either one SIM at a time (Single active).

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4.2 Maximum Tune-up Limit

Mode	Burst average power(dBm)		
Iviode	GSM 850	GSM 1900	
GSM (GMSK, 1 Tx slot)	32.5	28.5	
GPRS (GMSK, 1 Tx slot)	32.5	28.5	
GPRS (GMSK, 2 Tx slots)	32.5	28.5	
GPRS (GMSK, 3 Tx slots)	32.5	28.5	
GPRS (GMSK, 4 Tx slots)	32.5	28.5	
EDGE (8PSK, 1 Tx slot)	27.5	26.0	
EDGE (8PSK, 2 Tx slots)	27.5	26.0	
EDGE (8PSK, 3 Tx slots)	27.0	26.0	
EDGE (8PSK, 4 Tx slots)	27.0	25.5	

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Mode	Average power (dBm)			
Wode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	
AMR 12.2Kbps	24.0	23.5	23.5	
RMC 12.2Kbps	24.0	23.5	23.5	
HSDPA Subtest-1	22.5	21.5	22.5	
HSDPA Subtest-2	22.5	22.0	22.5	
HSDPA Subtest-3	22.0	21.5	22.0	
HSDPA Subtest-4	22.0	21.5	22.0	
HSUPA Subtest-1	22.5	21.5	22.5	
HSUPA Subtest-2	21.5	21.0	21.5	
HSUPA Subtest-3	21.0	21.0	21.0	
HSUPA Subtest-4	21.5	20.5	21.5	
HSUPA Subtest-5	22.5	21.5	22.5	



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LTE Band 4					
Average Power (dBm)					
Modulation	BW (MHz)	RB size	MPR	Target Power	
QPSK	20	≤ 18	0	24.0	
QPSK	20	> 18	1	23.0	
16QAM	20	≤ 18	1	23.0	
16QAM	20	> 18	2	22.0	
QPSK	15	≤ 16	0	24.0	
QPSK	15	> 16	1	23.0	
16QAM	15	≤ 16	1	23.0	
16QAM	15	> 16	2	22.0	
QPSK	10	≤ 12	0	24.0	
QPSK	10	> 12	1	23.0	
16QAM	10	≤ 12	1	23.0	
16QAM	10	> 12	2	22.0	
QPSK	5	≤ 8	0	24.0	
QPSK	5	> 8	1	23.0	
16QAM	5	≤ 8	1	23.0	
16QAM	5	> 8	2	22.0	
QPSK	3	≤ 4	0	24.0	
QPSK	3	> 4	1	23.0	
16QAM	3	≤ 4	1	23.0	
16QAM	3	> 4	2	22.0	
QPSK	1.4	≤ 5	0	24.0	
QPSK	1.4	> 5	1	23.0	
16QAM	1.4	≤ 5	1	23.0	
16QAM	1.4	> 5	2	22.0	

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LTE Band 7						
	Average Power (dBm)					
Modulation	BW (MHz)	RB size	MPR	Target Power		
QPSK	20	≤ 18	0	22.0		
QPSK	20	> 18	1	21.0		
16QAM	20	≤ 18	1	21.0		
16QAM	20	> 18	2	20.0		
QPSK	15	≤ 16	0	22.0		
QPSK	15	> 16	1	21.0		
16QAM	15	≤ 16	1	21.0		
16QAM	15	> 16	2	20.0		
QPSK	10	≤ 12	0	22.0		
QPSK	10	> 12	1	21.0		
16QAM	10	≤ 12	1	21.0		
16QAM	10	> 12	2	20.0		
QPSK	5	≤ 8	0	22.0		
QPSK	5	> 8	1	21.0		
16QAM	5	≤ 8	1	21.0		
16QAM	5	> 8	2	20.0		

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LTE Band 17					
		Average Power (dBm)		
Modulation	BW (MHz)	RB size	MPR	Target Power	
QPSK	10	≤ 12	0	23.5	
QPSK	10	> 12	1	22.5	
16QAM	10	≤ 12	1	22.5	
16QAM	10	> 12	2	21.5	
QPSK	5	≤ 8	0	23.5	
QPSK	5	> 8	1	22.5	
16QAM	5	≤ 8	1	22.5	
16QAM	5	> 8	2	21.5	

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Мос	le		Maximum Average Power (dBm)
		CH 1	14.0
	802.11b	CH 6	12.0
		CH 11	14.0
		CH 1	13.5
	802.11g	CH 6	12.0
2.4GHz		CH 11	14.0
2.4GHZ		CH 1	12.0
	802.11n-HT20	CH 6	10.5
		CH 11	12.5
		CH 3	11.0
	802.11n-HT40	CH 6	11.5
		CH 9	12.0
	CH	0	9.0
Bluetooth v3.0+EDR	CH 3	39	10.0
	CH 7	'8	10.0
Bluetooth	v4.0 LE	1.0	

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4.3 General LTE SAR Test and Reporting Considerations

Summarized r	nec	essary items	address	sed in Kl	DB 941	225 D05	v02r03		
FCC ID	ΥH	LBLULIFEON	NE50						
Equipment Name	Smartphone								
Operating Frequency Range of each LTE transmission band	LTI	Band 17: 70 Band 4: 17 Band 7: 250	10.7 MHz	~ 1754.	3 MHz				
Channel Bandwidth	5M	MHz, 3MHz, Hz, 10MHz, 1 Hz, 10MHz (I	15MHz, 2	0MHz (L		•	TE Band	4)	
uplink modulations used	QΡ	SK, and 16Q	AM						
LTE Voice / Data requirements	Da	ta only							
		Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3 Modulation Channel bandwidth / Transmission bandwidth (RB) MPR (dB							MPR (dB)
LTE MPR permanently built-in by design			1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
		QPSK	>5	>4	>8	> 12	> 16	> 18	≤1
		16 QAM	≤5	≤ 4	≤8	≤ 12	≤ 16	≤ 18	≤1
		16 QAM	>5	>4	>8	> 12	> 16	> 18	≤2
LTE A-MPR	to (R during	SAR tes					s set to NS_01 ransmitting on
LTE Release Version	R9								
Spectrum plots for RB configuration	me		therefore	, spectr	um plo	ts for e			AR and power on and offset

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			Tr	ansmissi	on (H, M,	L) ch	nann	el numbe	rs and fre	quer	ncies	in each L	TE band			
								LTE Ba		_						
				Bandwid	th 5 MHz				Bandwidth 10 MHz							
		Chann	el#		F	req.((MHz)	Channel #				F	req. (M	Hz)	
L		2375	55		706.5					237	780			709		
М		2379	90			7′	10			237	790			710		
Н		2382	25			713	3.5			238	300			711		
								LTE Band 4								
	Bandw M	idth 1.4 Hz	1	Bandwid	th 3 MHz	Ban	dwid	th 5 MHz	Bandwidt	h 10	MHz	Bandwidt	h 15 MHz	Bandw	idth 20 MHz	
	Ch. #	Freq (MHz		Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)	Ch. #		eq. Hz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	19957	1710	.7	19965	1711.5	199	975	1712.5	20000	17	15	20025	1717.5	20050	1720	
M	20175	1732	.5	20175	1732.5	201	175	1732.5	20175	173	32.5	20175	1732.5	2017	5 1732.5	
Н	20393	1754	.3	20385	1753.5	203	375	1752.5	20350	17	50	20325	1747.5	2030	1745	
								LTE Ba	and 7							
	Ban	dwidth	5 N	ЛHz	Band	dwidt	h 10	MHz	Band	dwidt	h 15	MHz	Band	dwidth 2	20 MHz	
	Ch. #	ŧ I	Free	q. (MHz)	Ch. #	Ł	Fre	q. (MHz)	Ch. #	!	Fre	q. (MHz)	Ch. #	F	req. (MHz)	
L	2077	5	2	502.5	20800)		2505	20825	5	2	2507.5	20850		2510	
M	21100)	:	2535	21100)		2535	21100)		2535	21100)	2535	
Н	2142	5	2	567.5	21400)		2565	21375	5	2	2562.5	21350		2560	

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5. RF Exposure Limits

5.1 Uncontrolled Environment

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

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5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

6. Specific Absorption Rate (SAR)

6.1 Introduction

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

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6.2 SAR Definition

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

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

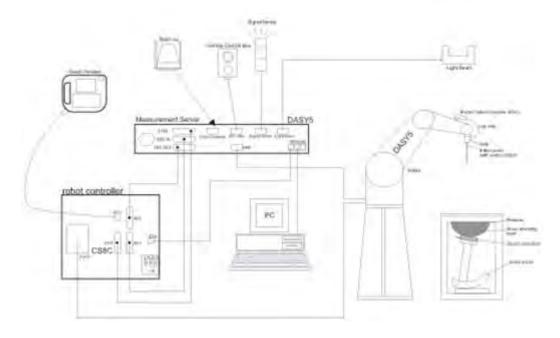
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. System Description and Setup

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



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

8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

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

<SAR measurement>

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

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

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

8.1 Spatial Peak SAR Evaluation

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

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

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

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

8.2 Power Reference Measurement

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

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8.3 Area Scan

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

Area scan parameters extracted from FCC KDB 865664 D01v01r03 SAR measurement 100 MHz to 6 GHz.

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz: } \le 12 \text{ mm}$ $4 - 6 \text{ GHz: } \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution 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 D01v01r03 SAR measurement 100 MHz to 6 GHz.

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

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

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/Medal	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	840	Nov. 19, 2014	Nov. 18, 2015
SPEAG	2600MHz System Validation Kit	D2600V2	1061	Nov. 19, 2014	Nov. 18, 2015
SPEAG	Data Acquisition Electronics	DAE4	1303	Dec. 11, 2014	Dec. 10, 2015
SPEAG	Dosimetric E-Field Probe	EX3DV4	3819	Nov. 13, 2014	Nov. 12, 2015
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1670	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1671	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 17, 2014	Jul. 16, 2015
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Sep. 29, 2014	Sep. 28, 2015
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
Anritsu	Power Sensor	MA2411B	1207253	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Meter	ML2495A	1218010	Jan. 28, 2015	Jan. 27, 2016
ARRA	Power Divider	A3200-2	N/A	NA	NA
R&S	CBT BLUETOOTH TESTER	CBT	100783	Aug. 11, 2014	Aug. 10, 2015
R&S	Spectrum Analyzer	FSP30	101362	Sep. 29, 2014	Sep. 28, 2015
Agilent	Dual Directional Coupler	778D	50422	No	te1
Woken	Attenuator 1	WK0602-XX	N/A	No	te1
PE	Attenuator 2	PE7005-10	N/A	No	te1
PE	Attenuator 3	PE7005-3	N/A	No	te1
AR	Power Amplifier	5S1G4M2	0328767	No	te1
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	No	te1
Mini-Circuits	Power Amplifier	ZHL-42W+	13440021344	No	te1

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General Note:

- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- 2. Referring to KDB 865664 D01v01r03, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- 3. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

10. System Verification

10.1 Tissue Verification

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

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tissue parameters required for routine SAR evaluation.

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

<Tissue Dielectric Parameter Check Results>

< 1133ue i	DIEIEC		rameter Ch	CCK INCOUN	13/					
Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target ($ε_r$)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.7	0.880	40.797	0.89	41.90	-1.12	-2.63	±5	May 11, 2015
835	Head	22.6	0.913	40.859	0.90	41.50	1.44	-1.54	±5	May 10, 2015
1750	Head	22.9	1.378	41.340	1.37	40.10	0.58	3.09	±5	May 04, 2015
1900	Head	22.7	1.421	41.283	1.40	40.00	1.50	3.21	±5	May 04, 2015
2450	Head	22.7	1.820	39.753	1.80	39.20	1.11	1.41	±5	May 12, 2015
2600	Head	22.8	2.054	38.328	1.96	39.00	4.80	-1.72	±5	May 03, 2015
750	Body	22.8	0.961	53.931	0.96	55.50	0.10	-2.83	±5	May 11, 2015
835	Body	22.8	0.974	54.266	0.97	55.20	0.41	-1.69	±5	Apr. 30, 2015
1750	Body	22.6	1.527	51.995	1.49	53.40	2.48	-2.63	±5	May 10, 2015
1900	Body	22.7	1.576	54.215	1.52	53.30	3.68	1.72	±5	May 10, 2015
2450	Body	22.9	1.949	51.667	1.95	52.70	-0.05	-1.96	±5	May 13, 2015
2600	Body	22.6	2.165	53.823	2.16	52.50	0.23	2.52	±5	May 09, 2015

10.2 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
May 11, 2015	750	Head	250	1065	3819	1303	2.13	8.14	8.52	4.67
May 10, 2015	835	Head	250	4d091	3819	1303	2.45	9.11	9.8	7.57
May 04, 2015	1750	Head	250	1069	3819	1303	9.66	37.10	38.64	4.15
May 04, 2015	1900	Head	250	5d118	3819	1303	10.20	40.10	40.8	1.75
May 12, 2015	2450	Head	250	840	3819	1303	14.07	52.30	56.28	7.61
May 03, 2015	2600	Head	250	1061	3819	1303	15.10	56.90	60.4	6.15
May 11, 2015	750	Body	250	1065	3819	1303	2.26	8.64	9.04	4.63
Apr. 30, 2015	835	Body	250	4d091	3819	1303	2.36	9.60	9.44	-1.67
May 10, 2015	1750	Body	250	1069	3819	1303	10.30	38.10	41.2	8.14
May 10, 2015	1900	Body	250	5d118	3819	1303	10.74	40.00	42.96	7.40
May 13, 2015	2450	Body	250	840	3819	1303	13.79	51.00	55.16	8.16
May 09, 2015	2600	Body	250	1061	3819	1303	14.90	54.90	59.6	8.56

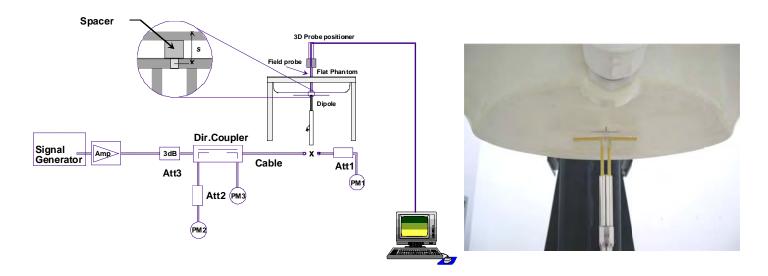


Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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11. RF Exposure Positions

11.1 Ear and handset reference point

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

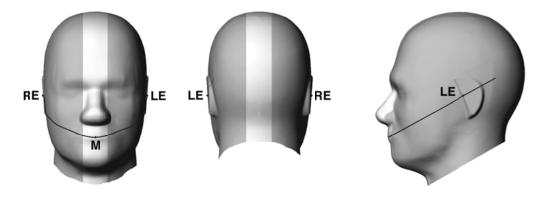


Fig 9.1.1 Front, back, and side views of SAM twin phantom

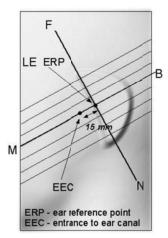
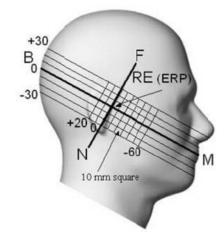


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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

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11.2 Definition of the cheek position

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.

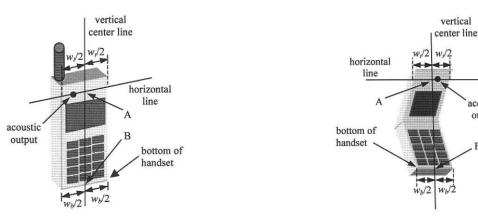


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

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

acoustic output

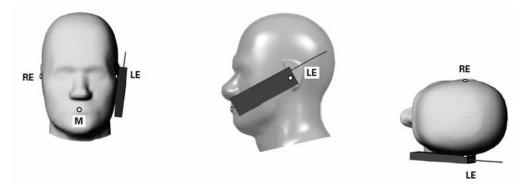


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

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

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

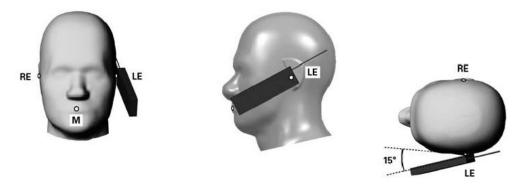


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB 648474 D04v01r02, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v05r02 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

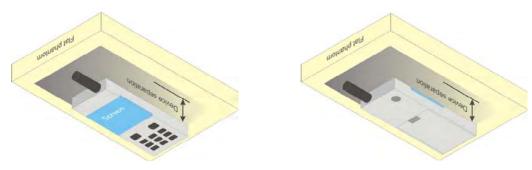


Fig 9.4 Body Worn Position

11.5 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC HDB Publication 941225 D06 v02 where SAR test considerations for handsets (L \times W \ge 9 cm \times 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v05r02 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

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

SIM1:

SIIVIT:								
Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	<mark>32.13</mark>	31.92	31.74	32.5	23.13	22.92	22.74	23.5
GPRS (GMSK, 1 Tx slot) – CS1	32.11	31.91	31.73	32.5	23.11	22.91	22.73	23.5
GPRS (GMSK, 2 Tx slots) – CS1	32.02	31.86	31.69	32.5	26.02	25.86	25.69	26.5
GPRS (GMSK, 3 Tx slots) – CS1	31.86	31.74	31.56	32.5	27.60	27.48	27.30	28.24
GPRS (GMSK, 4 Tx slots) – CS1	31.76	31.62	31.39	32.5	28.76	28.62	28.39	29.5
EDGE (8PSK, 1 Tx slot) – MCS5	27.00	26.94	26.76	27.5	18.00	17.94	17.76	18.5
EDGE (8PSK, 2 Tx slots) – MCS5	26.91	26.80	26.66	27.5	20.91	20.80	20.66	21.5
EDGE (8PSK, 3 Tx slots) – MCS5	26.81	26.73	26.59	27.0	22.55	22.47	22.33	22.74
EDGE (8PSK, 4 Tx slots) – MCS5	26.79	26.66	26.58	27.0	23.79	23.66	23.58	24.0
								_
Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	
	Burst Ave	erage Pov 661	ver (dBm) 810	Limit	Frame-Av 512	erage Pov 661		Tune-up Limit
Band GSM1900							wer (dBm)	Tune-up
Band GSM1900 TX Channel	512	661	810	Limit	512	661	wer (dBm) 810	Tune-up Limit
Band GSM1900 TX Channel Frequency (MHz)	512 1850.2	661 1880	810 1909.8	Limit dBm)	512 1850.2	661 1880	wer (dBm) 810 1909.8	Tune-up Limit (dBm)
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512 1850.2 28.21	661 1880 28.22	810 1909.8 28.29	Limit (dBm) 28.5	512 1850.2 19.21	661 1880 19.22	wer (dBm) 810 1909.8 19.29	Tune-up Limit (dBm) 19.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 28.21 28.16	661 1880 28.22 28.20	810 1909.8 28.29 28.23	Limit (dBm) 28.5 28.5	512 1850.2 19.21 19.16	661 1880 19.22 19.20	wer (dBm) 810 1909.8 19.29 19.23	Tune-up Limit (dBm) 19.5 19.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	512 1850.2 28.21 28.16 28.13	661 1880 28.22 28.20 28.14	810 1909.8 28.29 28.23 28.19	Limit (dBm) 28.5 28.5 28.5	512 1850.2 19.21 19.16 22.13	661 1880 19.22 19.20 22.14	wer (dBm) 810 1909.8 19.29 19.23 22.19	Tune-up Limit (dBm) 19.5 19.5 22.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1	512 1850.2 28.21 28.16 28.13 28.05	661 1880 28.22 28.20 28.14 28.06	810 1909.8 28.29 28.23 28.19 28.13	Limit (dBm) 28.5 28.5 28.5 28.5	512 1850.2 19.21 19.16 22.13 23.79	661 1880 19.22 19.20 22.14 23.80	wer (dBm) 810 1909.8 19.29 19.23 22.19 23.87	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1	512 1850.2 28.21 28.16 28.13 28.05 27.97	661 1880 28.22 28.20 28.14 28.06 27.98	810 1909.8 28.29 28.23 28.19 28.13 28.05	Limit (dBm) 28.5 28.5 28.5 28.5 28.5	512 1850.2 19.21 19.16 22.13 23.79 24.97	661 1880 19.22 19.20 22.14 23.80 24.98	wer (dBm) 810 1909.8 19.29 19.23 22.19 23.87 25.05	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24 25.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1 EDGE (8PSK, 1 Tx slot) – MCS5	512 1850.2 28.21 28.16 28.13 28.05 27.97 25.52	661 1880 28.22 28.20 28.14 28.06 27.98 25.46	810 1909.8 28.29 28.23 28.19 28.13 28.05 25.56	Limit (dBm) 28.5 28.5 28.5 28.5 28.5 28.5 26.0	512 1850.2 19.21 19.16 22.13 23.79 24.97 16.52	661 1880 19.22 19.20 22.14 23.80 24.98 16.46	wer (dBm) 810 1909.8 19.29 19.23 22.19 23.87 25.05 16.56	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24 25.5 17.0
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1 EDGE (8PSK, 1 Tx slot) – MCS5 EDGE (8PSK, 2 Tx slots) – MCS5	512 1850.2 28.21 28.16 28.13 28.05 27.97 25.52 25.46	661 1880 28.22 28.20 28.14 28.06 27.98 25.46 25.43	810 1909.8 28.29 28.23 28.19 28.13 28.05 25.56 25.48	Limit (dBm) 28.5 28.5 28.5 28.5 28.5 26.0 26.0	512 1850.2 19.21 19.16 22.13 23.79 24.97 16.52 19.46	661 1880 19.22 19.20 22.14 23.80 24.98 16.46 19.43	wer (dBm) 810 1909.8 19.29 19.23 22.19 23.87 25.05 16.56 19.48	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24 25.5 17.0 20.0

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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SIM2:								
Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	<mark>32.10</mark>	31.90	31.73	32.5	23.10	22.90	22.73	23.5
GPRS (GMSK, 1 Tx slot) – CS1	32.09	31.89	31.72	32.5	23.09	22.89	22.72	23.5
GPRS (GMSK, 2 Tx slots) – CS1	32.01	31.85	31.68	32.5	26.01	25.85	25.68	26.5
GPRS (GMSK, 3 Tx slots) – CS1	31.84	31.73	31.54	32.5	27.58	27.47	27.28	28.24
GPRS (GMSK, 4 Tx slots) – CS1	31.75	31.60	31.38	32.5	28.75	28.60	28.38	29.5
EDGE (8PSK, 1 Tx slot) – MCS5	26.98	26.90	26.73	27.5	17.98	17.90	17.73	18.5
EDGE (8PSK, 2 Tx slots) – MCS5	26.90	26.78	26.64	27.5	20.90	20.78	20.64	21.5
EDGE (8PSK, 3 Tx slots) – MCS5	26.80	26.72	26.58	27.0	22.54	22.46	22.32	22.74
EDGE (8PSK, 4 Tx slots) – MCS5	20.70	00.0	00.57	27.0	00.70	00 0	00.57	240
EDGE (6P3K, 4 TX SIUIS) - IVIC33	26.76	26.65	26.57	27.0	23.76	23.65	23.57	24.0
Band GSM1900					Frame-Av			Tune-up
				Tune-up Limit				Tune-up Limit
Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
Band GSM1900 TX Channel	Burst Ave 512	erage Pov 661	ver (dBm) 810	Tune-up Limit	Frame-Av 512	erage Pov 661	wer (dBm) 810	Tune-up Limit
Band GSM1900 TX Channel Frequency (MHz)	Burst Ave 512 1850.2	erage Pov 661 1880	ver (dBm) 810 1909.8	Tune-up Limit (dBm)	Frame-Av 512 1850.2	rerage Pov 661 1880	wer (dBm) 810 1909.8	Tune-up Limit (dBm)
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512 1850.2 28.20	erage Pov 661 1880 28.21	ver (dBm) 810 1909.8 <mark>28.27</mark>	Tune-up Limit (dBm) 28.5	Frame-Av 512 1850.2 19.20	rerage Pov 661 1880 19.21	wer (dBm) 810 1909.8 19.27	Tune-up Limit (dBm) 19.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 28.20 28.15	erage Pov 661 1880 28.21 28.19	ver (dBm) 810 1909.8 28.27 28.22	Tune-up Limit (dBm) 28.5 28.5	Frame-Av 512 1850.2 19.20 19.15	rerage Pov 661 1880 19.21 19.19	wer (dBm) 810 1909.8 19.27 19.22	Tune-up Limit (dBm) 19.5 19.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	Burst Ave 512 1850.2 28.20 28.15 28.10	661 1880 28.21 28.19 28.12	ver (dBm) 810 1909.8 28.27 28.22 28.18	Tune-up Limit (dBm) 28.5 28.5 28.5	512 1850.2 19.20 19.15 22.10	661 1880 19.21 19.19 22.12	wer (dBm) 810 1909.8 19.27 19.22 22.18	Tune-up Limit (dBm) 19.5 19.5 22.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1	512 1850.2 28.20 28.15 28.10 28.01	erage Pov 661 1880 28.21 28.19 28.12 28.03	ver (dBm) 810 1909.8 28.27 28.22 28.18 28.10	Tune-up Limit (dBm) 28.5 28.5 28.5 28.5	Frame-Av 512 1850.2 19.20 19.15 22.10 23.75	rerage Pov 661 1880 19.21 19.19 22.12 23.77	wer (dBm) 810 1909.8 19.27 19.22 22.18 23.84	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1	Burst Ave 512 1850.2 28.20 28.15 28.10 28.01 27.94	erage Pov 661 1880 28.21 28.19 28.12 28.03 27.97	ver (dBm) 810 1909.8 28.27 28.22 28.18 28.10 28.03	Tune-up Limit (dBm) 28.5 28.5 28.5 28.5 28.5	Frame-Av 512 1850.2 19.20 19.15 22.10 23.75 24.94	rerage Pov 661 1880 19.21 19.19 22.12 23.77 24.97	wer (dBm) 810 1909.8 19.27 19.22 22.18 23.84 25.03	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24 25.5
Band GSM1900 TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1 GPRS (GMSK, 3 Tx slots) – CS1 GPRS (GMSK, 4 Tx slots) – CS1 EDGE (8PSK, 1 Tx slot) – MCS5	512 1850.2 28.20 28.15 28.01 27.94 25.50	erage Pow 661 1880 28.21 28.19 28.12 28.03 27.97 25.44	ver (dBm) 810 1909.8 28.27 28.22 28.18 28.10 28.03 25.54	Tune-up Limit (dBm) 28.5 28.5 28.5 28.5 28.5 26.0	Frame-Av 512 1850.2 19.20 19.15 22.10 23.75 24.94 16.50	rerage Pov 661 1880 19.21 19.19 22.12 23.77 24.97 16.44	wer (dBm) 810 1909.8 19.27 19.22 22.18 23.84 25.03 16.54	Tune-up Limit (dBm) 19.5 19.5 22.5 24.24 25.5 17.0

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

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

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

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- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

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A summary of these settings are illustrated below:

HSDPA Setup Configuration:

Note 3:

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

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

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

 Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

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

with $\beta_{hs} = 24/15 * \beta_c$. CM = 1 for β_o/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HS-

DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

Setup Configuration

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HSUPA Setup Configuration:

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

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- Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- Set UE Target Power ٧.

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

- Note 1: $\Delta_{\rm ACK}$, $\Delta_{\rm NACK}$ and $\Delta_{\rm CQI}$ = 30/15 with β_{hs} = 30/15 * β_c .
- CM = 1 for β_d/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH Note 2: and E-DPCCH the MPR is based on the relative CM difference.
- Note 3: For subtest 1 the β_d/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- For subtest 5 the β_0/β_0 ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by Note 4: setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
- Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
- $\beta_{\text{ed}}\,\text{can}$ not be set directly, it is set by Absolute Grant Value. Note 6:

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< WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03, SAR for Head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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2. Per KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA.

SIM1:

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	Band	d	WCI	DMA Bai	nd V	WCI	DMA Ba	nd II	WCI	DMA Bar	nd IV
	TX Cha	nnel	4132	4182	4233	9262	9400	9538	1312	1413	1513
	Rx Chai	nnel	4357	4407	4458	9662	9800	9938	1537	1638	1738
	Frequency	(MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
MPR	3GPP Rel 99	AMR 12.2Kbps	23.34	23.26	23.28	22.74	22.83	22.81	23.24	23.12	22.97
(dB)	3GPP Rel 99	RMC 12.2Kbps	23.35	23.27	23.29	22.75	<mark>22.84</mark>	22.82	23.25	23.14	22.98
0	3GPP Rel 6	HSDPA Subtest-1	22.06	22.13	22.09	21.28	21.37	21.32	21.97	21.72	21.61
0	3GPP Rel 6	HSDPA Subtest-2	22.13	21.81	22.16	21.29	21.49	21.30	22.00	21.90	21.68
0.5	3GPP Rel 6	HSDPA Subtest-3	21.61	21.60	21.67	20.87	20.99	20.80	21.50	21.41	21.19
0.5	3GPP Rel 6	HSDPA Subtest-4	21.59	21.59	21.66	20.87	20.99	20.87	21.50	21.28	21.19
0	3GPP Rel 6	HSUPA Subtest-1	21.95	21.60	22.04	21.10	21.00	21.16	21.43	21.92	21.44
2	3GPP Rel 6	HSUPA Subtest-2	20.55	21.17	20.57	20.24	20.45	20.14	20.91	20.62	20.69
1	3GPP Rel 6	HSUPA Subtest-3	20.76	20.69	20.75	20.34	20.47	20.11	20.89	20.48	20.28
2	3GPP Rel 6	HSUPA Subtest-4	21.32	21.18	21.13	20.32	20.36	20.38	21.03	20.86	20.82
0	3GPP Rel 6	HSUPA Subtest-5	22.30	22.30	22.30	21.30	21.40	21.40	22.10	21.90	21.70

SIM2:

	Band	E	WCI	DMA Ba	nd V	WC	DMA Ba	nd II	WCI	DMA Bar	nd IV
	TX Chai	nnel	4132	4182	4233	9262	9400	9538	1312	1413	1513
	Rx Char	nnel	4357	4407	4458	9662	9800	9938	1537	1638	1738
	Frequency	(MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
MPR	3GPP Rel 99	AMR 12.2Kbps	23.32	23.24	23.26	22.73	22.81	22.78	23.23	23.11	22.95
(dB)	3GPP Rel 99	RMC 12.2Kbps	23.33	23.25	23.27	22.74	22.82	22.80	23.24	23.12	22.97
0	3GPP Rel 6	HSDPA Subtest-1	22.04	22.11	22.07	21.24	21.34	21.29	21.92	21.67	21.56
0	3GPP Rel 6	HSDPA Subtest-2	22.11	21.79	22.14	21.25	21.44	21.26	21.94	21.84	21.64
0.5	3GPP Rel 6	HSDPA Subtest-3	21.58	21.58	21.63	20.82	20.95	20.75	21.45	21.32	21.12
0.5	3GPP Rel 6	HSDPA Subtest-4	21.57	21.56	21.62	20.83	20.93	20.82	21.44	21.22	21.14
0	3GPP Rel 6	HSUPA Subtest-1	21.92	21.58	22.00	21.07	20.94	21.10	21.38	21.87	21.40
2	3GPP Rel 6	HSUPA Subtest-2	20.53	21.12	20.55	20.20	20.40	20.10	20.86	20.58	20.64
1	3GPP Rel 6	HSUPA Subtest-3	20.72	20.67	20.70	20.30	20.43	20.07	20.84	20.42	20.22
2	3GPP Rel 6	HSUPA Subtest-4	21.30	21.15	21.10	20.27	20.32	20.34	20.97	20.81	20.77
0	3GPP Rel 6	HSUPA Subtest-5	22.28	22.27	22.25	21.26	21.35	21.36	22.03	21.85	21.64



<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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<LTE Band 17 >

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune up Limit	MPR
	Cha	nnel		23780	23790	23800	(dBm)	(dB)
	Frequenc	cy (MHz)		709	710	711		
10	QPSK	1	0	22.51	22.63	22.39		
10	QPSK	1	24	22.48	22.54	22.58	23.5	0
10	QPSK	1	49	22.71	<mark>22.72</mark>	22.62		
10	QPSK	25	0	21.40	21.49	21.51		
10	QPSK	25	12	21.48	21.56	21.57	20.5	0.4
10	QPSK	25	24	21.60	21.64	21.58	22.5	0-1
10	QPSK	50	0	21.48	21.52	21.46		
10	16QAM	1	0	21.82	21.49	21.45		
10	16QAM	1	24	21.72	21.43	21.42	22.5	0-1
10	16QAM	1	49	21.92	21.55	21.71		
10	16QAM	25	0	20.47	20.37	20.40		
10	16QAM	25	12	20.48	20.51	20.49	21.5	0-2
10	16QAM	25	24	20.63	20.51	20.51	21.5	0-2
10	16QAM	50	0	20.42	20.34	20.41		
	Cha	nnel		23755	23790	23825	Tune up	MPR
	Frequenc	cy (MHz)		706.5	710	713.5	Limit (dBm)	(dB)
5	QPSK	1	0	22.66	22.46	22.46		
5	QPSK	1	12	22.39	22.50	22.60	23.5	0
5	QPSK	1	24	22.55	22.71	22.56		
5	QPSK	12	0	21.61	21.62	21.68		
5	QPSK	12	6	21.57	21.61	21.73	22 F	0-1
5	QPSK	12	11	21.91	21.63	21.87	22.5	0-1
5	QPSK	25	0	21.58	21.51	21.64		
5	16QAM	1	0	21.83	21.49	21.76		
5	16QAM	1	12	21.71	21.82	21.81	22.5	0-1
5	16QAM	1	24	21.69	21.85	21.87		
5	16QAM	12	0	20.63	20.59	20.65		
5	16QAM	12	6	20.62	20.66	20.72	21 5	0-2
5	16QAM	12	11	20.58	20.77	20.64	21.5	0-2
5	16QAM	25	0	20.51	20.55	20.53		

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<LTE Band 4>

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BW	Modulation	RB	RB	Power Low	Power Middle	Power	_	
[MHz]	Modulation	Size	Offset	Ch. / Freq.	Ch. / Freq.	High Ch. / Freq.	Tune up	MPR
	Cha	nnel		20050	20175	20300	Limit (dBm)	(dB)
	Frequenc			1720	1732.5	1745	(dbiii)	
20	QPSK	1	0	23.73	23.48	23.36		
20	QPSK	1	49	23.66	23.29	23.25	24.0	0
20	QPSK	1	99	23.26	23.40	23.30	24.0	U
20	QPSK	50	0	22.14	22.13	22.10		
20	QPSK	50	24	22.14	22.13	21.96	-	
20	QPSK	50	49	22.05	21.99	21.90	23.0	0-1
20	QPSK	100	0	22.05	21.99	22.00	-	
20	16QAM	100	0	22.61	22.59	22.45		
20	16QAM	<u>'</u> 1	49	22.52	22.59	22.45	23.0	0-1
20		<u>'</u> 1		22.32		22.26	23.0	0-1
	16QAM	· · · · · · · · · · · · · · · · · · ·	99		22.18			
20	16QAM	50	0	21.14	21.06	21.06	-	
20	16QAM	50	24	21.08	20.94	20.92	22.0	0-2
20	16QAM	50	49	21.06	20.96	21.05	-	
20	16QAM	100	0	21.22	21.09	21.01	T	
	Cha	nnel		20025	20175	20325	Tune up Limit	MPR
	Frequenc	cy (MHz)		1717.5	1732.5	1747.5	(dBm)	(dB)
15	QPSK	1	0	23.35	23.30	23.29		
15	QPSK	1	37	23.38	23.25	23.30	24.0	0
15	QPSK	1	74	23.20	23.30	23.10		
15	QPSK	36	0	22.20	22.20	22.06		
15	QPSK	36	18	22.23	22.01	21.85	23.0	0-1
15	QPSK	36	37	21.98	21.98	21.98	23.0	0-1
15	QPSK	75	0	22.10	22.07	21.95		
15	16QAM	1	0	21.91	22.63	22.44		
15	16QAM	1	37	22.13	22.38	21.95	23.0	0-1
15	16QAM	1	74	22.11	22.44	22.31		
15	16QAM	36	0	21.22	21.15	21.10		
15	16QAM	36	18	21.18	20.96	21.14	22.0	0.2
15	16QAM	36	37	21.08	21.07	21.13	22.0	0-2
15	16QAM	75	0	21.12	21.07	20.96		
	Cha	nnel		20000	20175	20350	Tune up	MPR
	Frequenc	cy (MHz)		1715	1732.5	1750	Limit (dBm)	(dB)
10	QPSK	1	0	23.47	23.31	23.08		
10	QPSK	1	24	23.30	23.28	23.18	24.0	0
10	QPSK	1	49	23.33	23.14	22.96		
10	QPSK	25	0	22.18	22.18	22.07		
10	QPSK	25	12	22.19	22.25	22.08		
10	QPSK	25	24	22.28	22.11	22.03	23.0	0-1
10	QPSK	50	0	22.02	22.03	21.90		
10	16QAM	1	0	22.70	22.52	22.40		
10	16QAM	1	24	22.54	22.42	22.56	23.0	0-1
10	16QAM	<u> </u>	49	22.60	22.53	22.22		
10	16QAM	 25	0	21.12	21.18	21.08		
10	16QAM	25	12	21.24	20.98	21.08		
10	16QAM	25	24	21.32	21.10	21.12	22.0	0-2
10	16QAM	50	0	21.15	21.00	20.95		

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	Cha	nnel		19975	20175	20375	Tune up	MPR
	Frequen	cy (MHz)		1712.5	1732.5	1752.5	Limit (dBm)	(dB)
5	QPSK	1	0	23.18	23.23	23.11	(aBiii)	
5	QPSK	1	12	23.24	23.28	23.13	24.0	0
5	QPSK	1	24	23.17	23.23	23.06		-
5	QPSK	12	0	22.55	22.27	22.18		
5	QPSK	12	6	22.22	22.21	22.14		
5	QPSK	12	11	22.23	22.29	22.11	23.0	0-1
5	QPSK	25	0	22.18	22.20	22.04		
5	16QAM	1	0	22.51	22.57	22.39		
5	16QAM	1	12	22.54	22.24	22.35	23.0	0-1
5	16QAM	1	24	22.53	22.43	22.18		.
5	16QAM	12	0	21.52	21.31	21.21		
5	16QAM	12	6	21.57	21.33	21.18		
5	16QAM	12	11	21.21	21.34	21.16	22.0	0-2
5	16QAM	25	0	21.13	21.21	20.98		
J	Cha		J	19965	20175	20385	Tune up	
							Limit	MPR
	Frequen			1711.5	1732.5	1753.5	(dBm)	(dB)
3	QPSK	1	0	23.31	23.23	23.07		_
3	QPSK	1	7	23.24	23.21	22.81	24.0	0
3	QPSK	1	14	23.61	23.24	23.16		
3	QPSK	8	0	22.67	22.29	22.11		
3	QPSK	8	4	22.60	22.28	21.95	23.0	0-1
3	QPSK	8	7	22.11	22.21	21.94		.
3	QPSK	15	0	22.54	22.26	22.16		
3	16QAM	1	0	22.42	22.01	21.86		
3	16QAM	1	7	22.46	22.26	21.83	23.0	0-1
3	16QAM	1	14	22.50	22.10	21.97		
3	16QAM	8	0	21.26	21.27	21.19		
3	16QAM	8	4	21.61	21.26	21.00	22.0	0-2
3	16QAM	8	7	21.12	21.20	20.95		~ _
3	16QAM	15	0	21.12	21.24	20.91		
	Cha	nnel		19957	20175	20393	Tune up	MPR
	Frequen	cy (MHz)		1710.7	1732.5	1754.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	23.28	23.24	23.13		
1.4	QPSK	1	2	23.33	23.31	22.86		
1.4	QPSK	1	5	23.65	23.31	23.16	24.0	0
1.4	QPSK	3	0	23.24	23.35	23.20	24.0	0
1.4	QPSK	3	1	23.25	23.25	23.19		
1.4	QPSK	3	2	23.21	23.24	22.85		
1.4	QPSK	6	0	22.57	22.40	22.16	23.0	0-1
1.4	16QAM	1	0	22.12	21.90	21.62		
1.4	16QAM	1	2	22.16	21.94	21.65		
1.4	16QAM	1	5	22.18	21.87	21.63	22.0	0.4
1.4	16QAM	3	0	22.07	22.34	22.25	23.0	0-1
1.4	16QAM	3	1	22.78	22.38	22.33		
1.4	16QAM	3	2	22.57	22.37	21.99		
1.4	16QAM	6	0	21.53	21.22	20.86	22.0	0-2

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<LTE Band 7>

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BW		RB	RB	Power	Power	Power		
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR
	Ob a			Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)
	Cha			20850	21100	21350	(dBm)	
	Frequen	cy (MHz)		2510	2535	2560		
20	QPSK	1	0	21.06	21.08	21.03		_
20	QPSK	1	49	21.10	21.14	21.12	22.0	0
20	QPSK	1	99	21.15	21.25	<mark>21.28</mark>		
20	QPSK	50	0	20.04	20.16	20.21		
20	QPSK	50	24	20.13	20.14	20.22	21.0	0-1
20	QPSK	50	49	20.14	20.17	20.24	20	0.
20	QPSK	100	0	20.12	20.14	20.26		
20	16QAM	1	0	20.13	20.07	20.08		
20	16QAM	1	49	20.12	20.37	20.21	21.0	0-1
20	16QAM	1	99	20.02	20.24	20.44		
20	16QAM	50	0	19.13	19.23	19.04		
20	16QAM	50	24	19.13	19.18	19.17	20.0	0.2
20	16QAM	50	49	19.04	19.21	19.21	20.0	0-2
20	16QAM	100	0	19.11	19.19	19.04		
	Cha	nnel		20825	21100	21375	Tune up	MDD
	Frequen	cy (MHz)		2507.5	2535	2562.5	Limit (dBm)	MPR (dB)
15	QPSK	1	0	21.05	21.02	21.20		
15	QPSK	1	37	21.11	21.14	21.18	22.0	0
15	QPSK	1	74	21.14	21.23	21.15		
15	QPSK	36	0	20.02	20.12	20.09		
15	QPSK	36	18	19.91	20.05	19.96		
15	QPSK	36	37	19.96	20.12	20.15	21.0	0-1
15	QPSK	75	0	19.85	20.10	20.09		
15	16QAM	1	0	20.00	19.99	20.40		
15	16QAM	1	37	20.05	20.06	20.02	21.0	0-1
15	16QAM	1	74	20.02	20.19	20.47	20	Ů.
15	16QAM	36	0	18.96	19.09	19.15		
15	16QAM	36	18	19.01	19.14	19.19		
15	16QAM	36	37	19.01	19.10	19.15	20.0	0-2
15	16QAM	75	0	19.02	19.09	19.13		
10	Cha			20800	21100	21400	Tune up	
	Frequen			2505	2535	2565	Limit (dBm)	MPR (dB)
10	QPSK	1	0	21.05	21.03	21.05	(GBIII)	
10	QPSK	1	24	20.93	21.05	21.06	22.0	0
10	QPSK	1	49	21.14	21.11	21.00	22.0	0
10	QPSK	25	0	20.01	20.15	20.16		
10	QPSK	25	12	19.91	20.15	20.10		
10	QPSK	25	24	19.95	20.15	20.17	21.0	0-1
10	QPSK	50	0	19.93	20.13	20.12		
10	16QAM	1	0	20.15	19.98	20.10		
	16QAM	1	24	20.15	20.05	20.06	21.0	0-1
10 10	16QAM	1	49	20.16	20.05	20.30	21.0	0-1
10	16QAM	25	0	18.91	19.15	19.07		
10	16QAM	25	12	18.94	18.98	19.10	20.0	0-2
10	16QAM	25	24	18.88	19.07	19.14		
10	16QAM	50	0	18.89	18.98	19.06		

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	Cha	nnel		20775	21100	21425	Tune up	MPR
	Frequen	cy (MHz)		2502.5	2535	2567.5	Limit (dBm)	(dB)
5	QPSK	1	0	21.04	21.14	21.12		
5	QPSK	1	12	21.01	21.07	21.17	22.0	0
5	QPSK	1	24	21.00	21.04	21.20		
5	QPSK	12	0	20.09	20.14	20.21		
5	QPSK	12	6	20.06	20.14	20.20	21.0	0.1
5	QPSK	12	11	20.01	20.18	20.16	21.0	0-1
5	QPSK	25	0	19.94	20.13	20.14		
5	16QAM	1	0	19.68	19.87	20.06		
5	16QAM	1	12	19.72	19.83	19.79	21.0	0-1
5	16QAM	1	24	19.62	20.07	19.98		
5	16QAM	12	0	19.20	19.24	19.29		
5	16QAM	12	6	19.08	19.21	19.37	20.0	0.2
5	16QAM	12	11	19.13	19.23	19.27	20.0	0-2
5	16QAM	25	0	19.01	19.32	19.26		

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<WLAN Conducted Power>

General Note:

1. Per KDB 248227 D01v02, 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 2.4 band, 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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- 2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 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).
- 3. For OFDM transmission configurations in the 2.4 GHz band, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11g/n mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- 4. 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.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. 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.

 SPORTON INTERNATIONAL (SHENZHEN) INC.

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<2.4GHz WLAN>

	WLAN 2.4GHz 802.11b Average Power (dBm)											
Pov	wer vs. Chan	inel	Power vs. Data Rate									
Channel Frequency (MHz) Data Rate (MHz) Channel 2Mbps 5.5Mbps 11Mbps												
CH 01	2412	<mark>13.44</mark>										
CH 06	2437	11.22	CH 01	13.34	13.39	13.41						
CH 11	2462	13.25										

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	WLAN 2.4GHz 802.11g Average Power (dBm)												
Po	wer vs. Chan	nel				Power vs.	Data Rate						
Channel	Frequency (MHz)	Data Rate 6Mbps	Channel 9Mbps 12Mbps 18Mbps 24Mbps 36Mbps 48Mbps 54Mbps										
CH 01	2412	13.27											
CH 06	2437	11.84	CH 11	13.36	13.36	13.39	13.34	13.40	13.34	13.37			
CH 11	2462	13.41											

WLAN 2.4GHz 802.11n HT20 Average Power (dBm)										
Power vs. Channel			Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412	11.43	CH 11	11.94	11.92	11.93	11.92	11.93	11.90	11.89
CH 06	2437	10.04								
CH 11	2462	<mark>11.95</mark>								

WLAN 2.4GHz 802.11n-HT40 Average Power (dBm)										
Power vs. Channel			Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 3	2422	10.66	CH 9	11.70	11.71	11.69	11.70	11.68	11.69	11.68
CH 6	2437	11.08								
CH 9	2452	<mark>11.73</mark>								



<2.4GHz Bluetooth>

General Note:

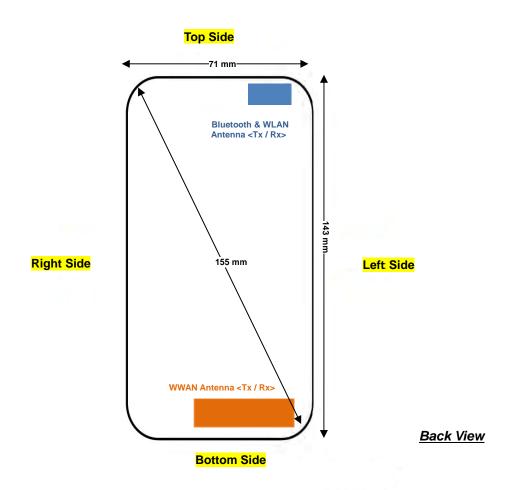
- 1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- 2. The duty factor is selected theoretical 83.3% perform Bluetooth SAR testing.

Mode	Channel	Frequency		Average power (dBm)	
Mode	Charmer	(MHz)	1Mbps	2Mbps	3Mbps
	CH 00	2402	8.47	6.65	6.65
v3.0 with EDR	CH 39	2441	9.18	7.19	7.18
VO.U WILLI LUK	CH 78	2480	<mark>9.53</mark>	7.53	7.53

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Mode	Channel	Frequency (MHz)	Average power (dBm) GFSK
	CH 00	2402	-0.89
v4.0 with LE	CH 19	2440	-0.71
	CH 39	2480	<mark>0.57</mark>

13. Antenna Location



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	Distance of the Antenna to the EUT surface/edge												
Antennas Back Front Top Side Bottom Side Right Side Left Side													
WWAN Main	≤ 25mm	≤ 25mm	127mm	≤ 25mm	26mm	≤ 25mm							
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	132mm	46mm	≤ 25mm							

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

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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14. SAR Test Results

General Note:

- 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.
- 4. 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.
- Per KDB 941225 D01v03, SAR for next to the ear head / Hotspot / Body-worn exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 7. Per KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA.
- 8. Per KDB 941225 D05v02r03, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 9. Per KDB 941225 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 10. Per KDB 941225 D05v02r03, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 11. Per KDB 941225 D05v02r03, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r03, 16QAM SAR testing is not required.
- 12. Per KDB 941225 D05v02r03, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r03, smaller bandwidth SAR testing is not required.
- 13. Per KDB 248227 D01v02, for 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.
- 14. This device 2.4GHz WLAN supports Hotspot operation.
- 15. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

 SPORTON INTERNATIONAL (SHENZHEN) INC.

 TEL: 86-755-8637-9589/ FAX: 86-755-8637-9595
 Issued Date: May 20, 2015



14.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Right Cheek	128	824.2	31.76	32.50	1.186	-0.03	0.393	0.466
	GSM850	GPRS(4 Tx slots)	Right Tilted	128	824.2	31.76	32.50	1.186	-0.01	0.241	0.286
	GSM850	GPRS(4 Tx slots)	Left Cheek	128	824.2	31.76	32.50	1.186	-0.04	0.303	0.359
	GSM850	GPRS(4 Tx slots)	Left Tilted	128	824.2	31.76	32.50	1.186	0.18	0.199	0.236
#01	GSM850	GPRS(4 Tx slots)	Right Cheek	189	836.4	31.62	32.50	1.225	-0.07	0.381	<mark>0.467</mark>
	GSM850	GPRS(4 Tx slots)	Right Cheek	251	848.8	31.39	32.50	1.291	-0.04	0.347	0.448
	GSM1900	GPRS(4 Tx slots)	Right Cheek	810	1909.8	28.05	28.50	1.109	-0.05	0.075	0.083
	GSM1900	GPRS(4 Tx slots)	Right Tilted	810	1909.8	28.05	28.50	1.109	0.05	0.038	0.042
	GSM1900	GPRS(4 Tx slots)	Left Cheek	810	1909.8	28.05	28.50	1.109	0.05	0.129	0.143
	GSM1900	GPRS(4 Tx slots)	Left Tilted	810	1909.8	28.05	28.50	1.109	0.07	0.046	0.051
#02	GSM1900	GPRS(4 Tx slots)	Left Cheek	512	1850.2	27.97	28.50	1.130	0.09	0.163	<mark>0.184</mark>
	GSM1900	GPRS(4 Tx slots)	Left Cheek	661	1880	27.98	28.50	1.127	0.09	0.159	0.179

Report No.: FA540401

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4132	826.4	23.35	24.00	1.161	-0.09	0.164	0.190
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	4132	826.4	23.35	24.00	1.161	-0.04	0.110	0.128
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4132	826.4	23.35	24.00	1.161	-0.04	0.143	0.166
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	4132	826.4	23.35	24.00	1.161	0.08	0.091	0.106
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4182	836.4	23.27	24.00	1.183	-0.06	0.169	0.200
#03	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4233	846.6	23.29	24.00	1.178	-0.11	0.170	<mark>0.200</mark>
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1312	1712.4	23.25	23.50	1.059	-0.08	0.112	0.119
	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	1312	1712.4	23.25	23.50	1.059	0.01	0.035	0.037
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1312	1712.4	23.25	23.50	1.059	0.09	0.128	0.136
	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	1312	1712.4	23.25	23.50	1.059	0.04	0.043	0.046
#04	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1413	1732.6	23.14	23.50	1.086	0.11	0.126	0.137
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1513	1752.6	22.98	23.50	1.127	0.03	0.117	0.132
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9400	1880	22.84	23.50	1.164	-0.02	0.063	0.073
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	9400	1880	22.84	23.50	1.164	0.09	0.017	0.020
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9400	1880	22.84	23.50	1.164	0.07	0.095	0.111
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	9400	1880	22.84	23.50	1.164	0.07	0.033	0.038
#05	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9262	1852.4	22.75	23.50	1.189	0.11	0.098	<mark>0.116</mark>
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9538	1907.6	22.82	23.50	1.169	0.02	0.093	0.109

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FCC SAR Test Report

<LTE SAR>

									Average	Tune-Up	Tune-up	Power	Measured	Reported
Plot	Band	BW	RB	RB ""	Modulation	Test	Ch.	Freq.	Power	Limit	Scaling	Drift	1g SAR	1g SAR
No.		(MHz)	Size	offest		Position		(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 17	10M	1	49	QPSK	Right Cheek	23790	710	22.72	23.50	1.197	-0.01	0.00202	0.002
	LTE Band 17	10M	1	49	QPSK	Right Tilted	23790	710	22.72	23.50	1.197	-0.02	0.00701	0.008
	LTE Band 17	10M	1	49	QPSK	Left Cheek	23790	710	22.72	23.50	1.197	0.07	0.012	0.014
	LTE Band 17	10M	1	49	QPSK	Left Tilted	23790	710	22.72	23.50	1.197	-0.07	0.00589	0.007
	LTE Band 17	10M	1	49	QPSK	Left Cheek	23780	709	22.71	23.50	1.199	-0.07	0.012	0.014
#06	LTE Band 17	10M	1	49	QPSK	Left Cheek	23800	711	22.62	23.50	1.225	-0.02	0.012	<mark>0.015</mark>
	LTE Band 17	10M	25	24	QPSK	Right Cheek	23790	710	21.64	22.50	1.219	-0.07	0.00546	0.007
	LTE Band 17	10M	25	24	QPSK	Right Tilted	23790	710	21.64	22.50	1.219	-0.08	0.00302	0.004
	LTE Band 17	10M	25	24	QPSK	Left Cheek	23790	710	21.64	22.50	1.219	-0.08	0.00949	0.012
	LTE Band 17	10M	25	24	QPSK	Left Tilted	23790	710	21.64	22.50	1.219	0.03	0.00469	0.006
	LTE Band 4	20M	1	0	QPSK	Right Cheek	20050	1720	23.73	24.00	1.064	-0.04	0.127	0.135
	LTE Band 4	20M	1	0	QPSK	Right Tilted	20050	1720	23.73	24.00	1.064	0.08	0.022	0.023
#07	LTE Band 4	20M	1	0	QPSK	Left Cheek	20050	1720	23.73	24.00	1.064	0.09	0.148	<mark>0.157</mark>
	LTE Band 4	20M	1	0	QPSK	Left Tilted	20050	1720	23.73	24.00	1.064	0.05	0.052	0.055
	LTE Band 4	20M	1	0	QPSK	Left Cheek	20175	1732.5	23.48	24.00	1.127	-0.07	0.097	0.109
	LTE Band 4	20M	1	0	QPSK	Left Cheek	20300	1745	23.36	24.00	1.159	0.06	0.084	0.097
	LTE Band 4	20M	50	0	QPSK	Right Cheek	20050	1720	22.14	23.00	1.219	0.06	0.096	0.117
	LTE Band 4	20M	50	0	QPSK	Right Tilted	20050	1720	22.14	23.00	1.219	0.07	0.017	0.021
	LTE Band 4	20M	50	0	QPSK	Left Cheek	20050	1720	22.14	23.00	1.219	0.12	0.113	0.138
	LTE Band 4	20M	50	0	QPSK	Left Tilted	20050	1720	22.14	23.00	1.219	0.05	0.041	0.050
	LTE Band 7	20M	1	99	QPSK	Right Cheek	21350	2560	21.28	22.00	1.180	0.04	0.020	0.024
	LTE Band 7	20M	1	99	QPSK	Right Tilted	21350	2560	21.28	22.00	1.180	0.01	0.012	0.014
#08	LTE Band 7	20M	1	99	QPSK	Left Cheek	21350	2560	21.28	22.00	1.180	0.02	0.031	<mark>0.037</mark>
	LTE Band 7	20M	1	99	QPSK	Left Tilted	21350	2560	21.28	22.00	1.180	0.01	0.00289	0.003
	LTE Band 7	20M	1	99	QPSK	Left Cheek	20850	2510	21.15	22.00	1.216	0.05	0.017	0.021
	LTE Band 7	20M	1	99	QPSK	Left Cheek	21100	2535	21.25	22.00	1.189	0.08	0.00437	0.005
	LTE Band 7	20M	50	49	QPSK	Right Cheek	21350	2560	20.24	21.00	1.191	0.05	0.016	0.019
	LTE Band 7	20M	50	49	QPSK	Right Tilted	21350	2560	20.24	21.00	1.191	0.01	0.00883	0.011
	LTE Band 7	20M	50	49	QPSK	Left Cheek	21350	2560	20.24	21.00	1.191	0.01	0.027	0.032
	LTE Band 7	20M	50	49	QPSK	Left Tilted	21350	2560	20.24	21.00	1.191	0.02	0.000935	0.001

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FCC SAR Test Report

<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	1	2412	13.44	14.00	1.137	97.63	1.024	0.02	0.665	0.774
	WLAN 2.4GHz	802.11b 1Mbps	Right Tilted	1	2412	13.44	14.00	1.137	97.63	1.024	0.09	0.483	0.562
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	1	2412	13.44	14.00	1.137	97.63	1.024	0.01	0.272	0.317
	WLAN 2.4GHz	802.11b 1Mbps	Left Tilted	1	2412	13.44	14.00	1.137	97.63	1.024	0.08	0.220	0.256
#09	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	11	2462	13.25	14.00	1.187	97.63	1.024	0.08	0.973	<mark>1.183</mark>
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	6	2437	11.22	12.00	1.197	97.63	1.024	0.09	0.617	0.756

Report No.: FA540401

<DSS Bluetooth 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)
	Bluetooth	DH5	Right Cheek	78	2480	9.53	10.00	1.115	0.08	0.145	0.162
	Bluetooth	DH5	Right Tilted	78	2480	9.53	10.00	1.115	0.06	0.105	0.117
	Bluetooth	DH5	Left Cheek	78	2480	9.53	10.00	1.115	0.05	0.00178	0.002
	Bluetooth	DH5	Left Tilted	78	2480	9.53	10.00	1.115	0.07	0.025	0.028
	Bluetooth	DH5	Right Cheek	0	2402	8.47	9.00	1.131	0.17	0.104	0.118
#10	Bluetooth	DH5	Right Cheek	39	2441	9.18	10.00	1.209	0.06	0.161	<mark>0.195</mark>

14.2 Hotspot SAR

	Distance of the Antenna to the EUT surface/edge												
Antennas Back Front Top Side Bottom Side Right Side Left Side													
WWAN Main	≤ 25mm	≤ 25mm	127mm	≤ 25mm	26mm	≤ 25mm							
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	132mm	46mm	≤ 25mm							

Report No. : FA540401

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

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

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Front	1	128	824.2	31.76	32.50	1.186	-0.05	0.508	0.602
	GSM850	GPRS(4 Tx slots)	Back	1	128	824.2	31.76	32.50	1.186	-0.04	0.552	0.655
	GSM850	GPRS(4 Tx slots)	Left Side	1	128	824.2	31.76	32.50	1.186	0.04	0.511	0.606
	GSM850	GPRS(4 Tx slots)	Bottom Side	1	128	824.2	31.76	32.50	1.186	0.04	0.176	0.209
	GSM850	GPRS(4 Tx slots)	Back	1	189	836.4	31.62	32.50	1.225	0.05	0.700	0.857
#11	GSM850	GPRS(4 Tx slots)	Back	1	251	848.8	31.39	32.50	1.291	0.1	0.667	<mark>0.861</mark>
	GSM1900	GPRS(4 Tx slots)	Front	1	810	1909.8	28.05	28.50	1.109	0.06	0.489	0.542
	GSM1900	GPRS(4 Tx slots)	Back	1	810	1909.8	28.05	28.50	1.109	0.04	0.463	0.514
	GSM1900	GPRS(4 Tx slots)	Left Side	1	810	1909.8	28.05	28.50	1.109	-0.06	0.141	0.156
	GSM1900	GPRS(4 Tx slots)	Bottom Side	1	810	1909.8	28.05	28.50	1.109	-0.09	0.528	0.586
#12	GSM1900	GPRS(4 Tx slots)	Front	1	512	1850.2	27.97	28.50	1.130	0.03	0.550	0.621
	GSM1900	GPRS(4 Tx slots)	Front	1	661	1880	27.98	28.50	1.127	0.07	0.544	0.613
	GSM1900	GPRS(4 Tx slots)	Bottom Side	1	512	1850.2	27.97	28.50	1.130	-0.02	0.530	0.599
	GSM1900	GPRS(4 Tx slots)	Bottom Side	1	661	1880	27.98	28.50	1.127	-0.05	0.533	0.601



FCC SAR Test Report

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	1	4132	826.4	23.35	24.00	1.161	-0.06	0.209	0.243
	WCDMA Band V	RMC 12.2Kbps	Back	1	4132	826.4	23.35	24.00	1.161	0.18	0.235	0.273
	WCDMA Band V	RMC 12.2Kbps	Left Side	1	4132	826.4	23.35	24.00	1.161	0.08	0.220	0.256
	WCDMA Band V	RMC 12.2Kbps	Bottom Side	1	4132	826.4	23.35	24.00	1.161	-0.02	0.075	0.087
#13	WCDMA Band V	RMC 12.2Kbps	Back	1	4182	836.4	23.27	24.00	1.183	0.04	0.249	<mark>0.295</mark>
	WCDMA Band V	RMC 12.2Kbps	Back	1	4233	846.6	23.29	24.00	1.178	0.04	0.225	0.265
	WCDMA Band IV	RMC 12.2Kbps	Front	1	1312	1712.4	23.25	23.50	1.059	0.04	0.436	0.462
	WCDMA Band IV	RMC 12.2Kbps	Back	1	1312	1712.4	23.25	23.50	1.059	0.08	0.379	0.401
	WCDMA Band IV	RMC 12.2Kbps	Left Side	1	1312	1712.4	23.25	23.50	1.059	-0.09	0.139	0.147
	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	1	1312	1712.4	23.25	23.50	1.059	-0.08	0.401	0.425
	WCDMA Band IV	RMC 12.2Kbps	Front	1	1413	1732.6	23.14	23.50	1.086	0.04	0.448	0.487
#14	WCDMA Band IV	RMC 12.2Kbps	Front	1	1513	1752.6	22.98	23.50	1.127	0.07	0.436	<mark>0.491</mark>
	WCDMA Band II	RMC 12.2Kbps	Front	1	9400	1880	22.84	23.50	1.164	0.06	0.378	0.440
	WCDMA Band II	RMC 12.2Kbps	Back	1	9400	1880	22.84	23.50	1.164	0.07	0.353	0.411
	WCDMA Band II	RMC 12.2Kbps	Left Side	1	9400	1880	22.84	23.50	1.164	-0.04	0.089	0.104
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	1	9400	1880	22.84	23.50	1.164	-0.03	0.395	0.460
	WCDMA Band II	RMC 12.2Kbps	Front	1	9262	1852.4	22.75	23.50	1.189	0.06	0.381	0.453
	WCDMA Band II	RMC 12.2Kbps	Front	1	9538	1907.6	22.82	23.50	1.169	0.03	0.391	0.457
	WCDMA Band II	RMC 12.2Kbps	Bottom Side	1	9262	1852.4	22.75	23.50	1.189	-0.05	0.377	0.448
#15	WCDMA Band II	RMC 12.2Kbps	Bottom Side	1	9538	1907.6	22.82	23.50	1.169	-0.03	0.396	0.463

Report No. : FA540401



SPORTON LAB. FCC SAR Test Report

<LTE SAR>

										A.,	Turns Ille	T	Damas	Magazinad	Danamad
Plot	Band	BW	RB	RB	Modulation	Test	Gap	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	1g SAR
No.	Bana	(MHz)	Size	offest	Moddiation	Position	(cm)	0	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 17	10M	1	49	QPSK	Front	1	23790	710	22.72	23.50	1.197	0.01	0.025	0.030
#16	LTE Band 17	10M	1	49	QPSK	Back	1	23790	710	22.72	23.50	1.197	0.05	0.037	0.044
	LTE Band 17	10M	1	49	QPSK	Left Side	1	23790	710	22.72	23.50	1.197	0.01	0.016	0.019
	LTE Band 17	10M	1	49	QPSK	Bottom Side	1	23790	710	22.72	23.50	1.197	0.07	0.0065	0.008
	LTE Band 17	10M	1	49	QPSK	Back	1	23780	709	22.71	23.50	1.199	0.03	0.027	0.032
	LTE Band 17	10M	1	49	QPSK	Back	1	23800	711	22.62	23.50	1.225	0.07	0.032	0.039
	LTE Band 17	10M	25	24	QPSK	Front	1	23790	710	21.64	22.50	1.219	0.17	0.019	0.023
	LTE Band 17	10M	25	24	QPSK	Back	1	23790	710	21.64	22.50	1.219	0.01	0.029	0.035
	LTE Band 17	10M	25	24	QPSK	Left Side	1	23790	710	21.64	22.50	1.219	0.02	0.012	0.015
	LTE Band 17	10M	25	24	QPSK	Bottom Side	1	23790	710	21.64	22.50	1.219	0.07	0.00497	0.006
#17	LTE Band 4	20M	1	0	QPSK	Front	1	20050	1720	23.73	24.00	1.064	0.01	0.466	<mark>0.496</mark>
	LTE Band 4	20M	1	0	QPSK	Back	1	20050	1720	23.73	24.00	1.064	0.02	0.386	0.411
	LTE Band 4	20M	1	0	QPSK	Left Side	1	20050	1720	23.73	24.00	1.064	-0.08	0.146	0.155
	LTE Band 4	20M	1	0	QPSK	Bottom Side	1	20050	1720	23.73	24.00	1.064	-0.03	0.429	0.457
	LTE Band 4	20M	1	0	QPSK	Front	1	20175	1732.5	23.48	24.00	1.127	0.07	0.412	0.464
	LTE Band 4	20M	1	0	QPSK	Front	1	20300	1745	23.36	24.00	1.159	0.06	0.401	0.465
	LTE Band 4	20M	50	0	QPSK	Front	1	20050	1720	22.14	23.00	1.219	0.03	0.348	0.424
	LTE Band 4	20M	50	0	QPSK	Back	1	20050	1720	22.14	23.00	1.219	0.03	0.290	0.354
	LTE Band 4	20M	50	0	QPSK	Left Side	1	20050	1720	22.14	23.00	1.219	-0.06	0.108	0.132
	LTE Band 4	20M	50	0	QPSK	Bottom Side	1	20050	1720	22.14	23.00	1.219	-0.18	0.314	0.383
	LTE Band 7	20M	1	99	QPSK	Front	1	21350	2560	21.28	22.00	1.180	0.09	0.385	0.454
	LTE Band 7	20M	1	99	QPSK	Back	1	21350	2560	21.28	22.00	1.180	0.04	0.541	0.639
	LTE Band 7	20M	1	99	QPSK	Left Side	1	21350	2560	21.28	22.00	1.180	0.01	0.027	0.032
	LTE Band 7	20M	1	99	QPSK	Bottom Side	1	21350	2560	21.28	22.00	1.180	-0.17	0.733	0.865
	LTE Band 7	20M	1	99	QPSK	Back	1	20850	2510	21.15	22.00	1.216	-0.02	0.551	0.670
	LTE Band 7	20M	1	99	QPSK	Back	1	21100	2535	21.25	22.00	1.189	0.02	0.530	0.630
#18	LTE Band 7	20M	1	99	QPSK	Bottom Side	1	20850	2510	21.15	22.00	1.216	-0.05	0.816	0.992
	LTE Band 7	20M	1	99	QPSK	Bottom Side	1	21100	2535	21.25	22.00	1.189	-0.07	0.789	0.938
	LTE Band 7	20M	50	49	QPSK	Front	1	21350	2560	20.24	21.00	1.191	0.09	0.298	0.355
	LTE Band 7	20M	50	49	QPSK	Back	1	21350	2560	20.24	21.00	1.191	0.01	0.413	0.492
	LTE Band 7	20M	50	49	QPSK	Left Side	1	21350	2560	20.24	21.00	1.191	0.07	0.022	0.026
	LTE Band 7	20M	50	49	QPSK	Bottom Side	1	21350	2560	20.24	21.00	1.191	-0.01	0.594	0.708
	LTE Band 7	20M	100	0	QPSK	Bottom Side	1	21350	2560	20.26	21.00	1.186	-0.01	0.598	0.709

Report No. : FA540401



<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	1	1	2412	13.44	14.00	1.137	97.63	1.024	0.07	0.114	0.133
#19	WLAN 2.4GHz	802.11b 1Mbps	Back	1	1	2412	13.44	14.00	1.137	97.63	1.024	0.04	0.255	0.297
	WLAN 2.4GHz	802.11b 1Mbps	Left Side	1	1	2412	13.44	14.00	1.137	97.63	1.024	0.07	0.127	0.148
	WLAN 2.4GHz	802.11b 1Mbps	Top Side	1	1	2412	13.44	14.00	1.137	97.63	1.024	0.03	0.052	0.061
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	11	2462	13.25	14.00	1.187	97.63	1.024	0.03	0.240	0.292
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	6	2437	11.22	12.00	1.197	97.63	1.024	0.01	0.167	0.205

Report No.: FA540401

<DSS Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	DH5	Front	1	78	2480	9.53	10.00	1.115	-0.09	0.030	0.033
	Bluetooth	DH5	Back	1	78	2480	9.53	10.00	1.115	0.09	0.056	0.062
	Bluetooth	DH5	Left Side	1	78	2480	9.53	10.00	1.115	-0.03	0.034	0.038
	Bluetooth	DH5	Top Side	1	78	2480	9.53	10.00	1.115	-0.02	0.015	0.017
	Bluetooth	DH5	Back	1	0	2402	8.47	9.00	1.131	0.01	0.040	0.045
#20	Bluetooth	DH5	Back	1	39	2441	9.18	10.00	1.209	0.03	0.053	<mark>0.064</mark>



14.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS(4 Tx slots)	Front	1	128	824.2	31.76	32.50	1.186	-0.05	0.508	0.602
	GSM850	GPRS(4 Tx slots)	Back	1	128	824.2	31.76	32.50	1.186	-0.04	0.552	0.655
	GSM850	GPRS(4 Tx slots)	Back	1	189	836.4	31.62	32.50	1.225	0.05	0.700	0.857
#11	GSM850	GPRS(4 Tx slots)	Back	1	251	848.8	31.39	32.50	1.291	0.1	0.667	<mark>0.861</mark>
	GSM1900	GPRS(4 Tx slots)	Front	1	810	1909.8	28.05	28.50	1.109	0.06	0.489	0.542
	GSM1900	GPRS(4 Tx slots)	Back	1	810	1909.8	28.05	28.50	1.109	0.04	0.463	0.514
#12	GSM1900	GPRS(4 Tx slots)	Front	1	512	1850.2	27.97	28.50	1.130	0.03	0.550	<mark>0.621</mark>
	GSM1900	GPRS(4 Tx slots)	Front	1	661	1880	27.98	28.50	1.127	0.07	0.544	0.613

Report No. : FA540401

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Front	1	4132	826.4	23.35	24.00	1.161	-0.06	0.209	0.243
	WCDMA Band V	RMC 12.2Kbps	Back	1	4132	826.4	23.35	24.00	1.161	0.18	0.235	0.273
#13	WCDMA Band V	RMC 12.2Kbps	Back	1	4182	836.4	23.27	24.00	1.183	0.04	0.249	<mark>0.295</mark>
	WCDMA Band V	RMC 12.2Kbps	Back	1	4233	846.6	23.29	24.00	1.178	0.04	0.225	0.265
	WCDMA Band IV	RMC 12.2Kbps	Front	1	1312	1712.4	23.25	23.50	1.059	0.04	0.436	0.462
	WCDMA Band IV	RMC 12.2Kbps	Back	1	1312	1712.4	23.25	23.50	1.059	0.08	0.379	0.401
	WCDMA Band IV	RMC 12.2Kbps	Front	1	1413	1732.6	23.14	23.50	1.086	0.04	0.448	0.487
#14	WCDMA Band IV	RMC 12.2Kbps	Front	1	1513	1752.6	22.98	23.50	1.127	0.07	0.436	<mark>0.491</mark>
	WCDMA Band II	RMC 12.2Kbps	Front	1	9400	1880	22.84	23.50	1.164	0.06	0.378	0.440
	WCDMA Band II	RMC 12.2Kbps	Back	1	9400	1880	22.84	23.50	1.164	0.07	0.353	0.411
	WCDMA Band II	RMC 12.2Kbps	Front	1	9262	1852.4	22.75	23.50	1.189	0.06	0.381	0.453
#21	WCDMA Band II	RMC 12.2Kbps	Front	1	9538	1907.6	22.82	23.50	1.169	0.03	0.391	0.457

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FCC SAR Test Report

<LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offest	Modulation	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 17	10M	1	0	QPSK	Front	1	23790	710	22.72	23.50	1.197	0.01	0.025	0.030
#16	LTE Band 17	10M	1	0	QPSK	Back	1	23790	710	22.72	23.50	1.197	0.05	0.037	0.044
	LTE Band 17	10M	1	0	QPSK	Back	1	23780	709	22.71	23.50	1.199	0.03	0.027	0.032
	LTE Band 17	10M	1	0	QPSK	Back	1	23800	711	22.62	23.50	1.225	0.07	0.032	0.039
	LTE Band 17	10M	25	24	QPSK	Front	1	23790	710	21.64	22.50	1.219	0.17	0.019	0.023
	LTE Band 17	10M	25	24	QPSK	Back	1	23790	710	21.64	22.50	1.219	0.01	0.029	0.035
#17	LTE Band 4	20M	1	0	QPSK	Front	1	20050	1720	23.73	24.00	1.064	0.01	0.466	0.496
	LTE Band 4	20M	1	0	QPSK	Back	1	20050	1720	23.73	24.00	1.064	0.02	0.386	0.411
	LTE Band 4	20M	1	0	QPSK	Front	1	20175	1732.5	23.48	24.00	1.127	0.07	0.412	0.464
	LTE Band 4	20M	1	0	QPSK	Front	1	20300	1745	23.36	24.00	1.159	0.06	0.401	0.465
	LTE Band 4	20M	50	0	QPSK	Front	1	20050	1720	22.14	23.00	1.219	0.03	0.348	0.424
	LTE Band 4	20M	50	0	QPSK	Back	1	20050	1720	22.14	23.00	1.219	0.03	0.29	0.354
	LTE Band 7	20M	1	99	QPSK	Front	1	21350	2560	21.28	22.00	1.180	0.09	0.385	0.454
	LTE Band 7	20M	1	99	QPSK	Back	1	21350	2560	21.28	22.00	1.180	0.04	0.541	0.639
#22	LTE Band 7	20M	1	99	QPSK	Back	1	20850	2510	21.15	22.00	1.216	-0.02	0.551	<mark>0.670</mark>
	LTE Band 7	20M	1	99	QPSK	Back	1	21100	2535	21.25	22.00	1.189	0.02	0.530	0.630
	LTE Band 7	20M	50	49	QPSK	Front	1	21350	2560	20.24	21.00	1.191	0.09	0.298	0.355
	LTE Band 7	20M	50	49	QPSK	Back	1	21350	2560	20.24	21.00	1.191	0.01	0.413	0.492

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<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	1	1	2412	13.44	14.00	1.137	97.63	1.024	0.07	0.114	0.133
#19	WLAN 2.4GHz	802.11b 1Mbps	Back	1	1	2412	13.44	14.00	1.137	97.63	1.024	0.04	0.255	0.297
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	11	2462	13.25	14.00	1.187	97.63	1.024	0.03	0.240	0.292
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	6	2437	11.22	12.00	1.197	97.63	1.024	0.01	0.167	0.205

<DSS Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	DH5	Front	1	78	2480	9.53	10.00	1.115	-0.09	0.03	0.033
	Bluetooth	DH5	Back	1	78	2480	9.53	10.00	1.115	0.09	0.056	0.062
	Bluetooth	DH5	Back	1	0	2402	8.47	9.00	1.131	0.01	0.04	0.045
#20	Bluetooth	DH5	Back	1	39	2441	9.18	10.00	1.209	0.03	0.053	<mark>0.064</mark>



14.4 Repeated SAR Measurement

No.	Band	Mode	Test Position	BW (MHz)	RB Size		Gap (cm)	Ch	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Cycle	L.VCIA	Drift	Measured 1g SAR (W/kg)		Reported 1g SAR (W/kg)
1st	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	•	-	-	0	11	2462	13.25	14.00	1.187	97.63	1.024	0.08	0.973	1	1.183
2nd	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek		1	-	0	11	2462	13.25	14.00	1.187	97.63	1.024	0.09	0.962	1.011	1.170
1st	LTE Band 7	QPSK	Bottom Side	20M	1	99	1	20850	2510	21.15	22.00	1.216	100	1.000	-0.05	0.816	1	0.992
2nd	LTE Band 7	QPSK	Bottom Side	20M	1	99	1	20850	2510	21.15	22.00	1.216	100	1.000	-0.09	0.797	1.024	0.969

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General Note:

- 1. Per KDB 865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg
- 2. Per KDB 865664 D01v01r03, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated measured SAR.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

SPORTON INTERNATIONAL (SHENZHEN) INC.

15. Simultaneous Transmission Analysis

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

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General Note:

- 1 This device supported VoIP in GPRS, EGPRS, WCDMA and 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.
- EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 5. The reported SAR summation is calculated based on the same configuration and test position.
- The Scaled 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 = $(SAR_1 + SAR_2)^{1.5} / (min. separation distance, mm)$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

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15.1 Head Exposure Conditions

<WWAN + WLAN>

<wwan +="" th="" v<=""><th></th><th></th><th>WWAN PCE</th><th>WLAN DTS</th><th>Currence of</th><th></th><th></th></wwan>			WWAN PCE	WLAN DTS	Currence of		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.467	1.183	1.65	0.03	#01
	GSM850	Right Tilted	0.286	0.562	0.85		
	CONIOSO	Left Cheek	0.359	0.317	0.68		
GSM		Left Tilted	0.236	0.256	0.49		
GOIVI		Right Cheek	0.083	1.183	1.27		
	GSM1900	Right Tilted	0.042	0.562	0.60		
	GSW1900	Left Cheek	0.184	0.317	0.50		
		Left Tilted	0.051	0.256	0.31		
		Right Cheek	0.200	1.183	1.38		
	Band V	Right Tilted	0.128	0.562	0.69		
	Danu v	Left Cheek	0.166	0.317	0.48		
		Left Tilted	0.106	0.256	0.36		
		Right Cheek	0.119	1.183	1.30		
WCDMA	Band IV	Right Tilted	0.037	0.562	0.60		
VVCDIVIA	Danu IV	Left Cheek	0.137	0.317	0.45		
		Left Tilted	0.046	0.256	0.30		
		Right Cheek	0.073	1.183	1.26		
	Band II	Right Tilted	0.020	0.562	0.58		
	Danu II	Left Cheek	0.116	0.317	0.43		
		Left Tilted	0.038	0.256	0.29		
		Right Cheek	0.007	1.183	1.19		
	Dond 17	Right Tilted	0.008	0.562	0.57		
	Band 17	Left Cheek	0.015	0.317	0.33		
		Left Tilted	0.007	0.256	0.26		
		Right Cheek	0.135	1.183	1.32		
LTC	Donal 4	Right Tilted	0.023	0.562	0.59		
LTE	Band 4	Left Cheek	0.157	0.317	0.47		
		Left Tilted	0.055	0.256	0.31		
		Right Cheek	0.024	1.183	1.21		
	Donal 7	Right Tilted	0.014	0.562	0.58		
	Band 7	Left Cheek	0.037	0.317	0.35		
		Left Tilted	0.003	0.256	0.26		

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<WWAN + Bluetooth>

<wwan +="" e<="" th=""><th></th><th></th><th>WWAN PCE</th><th>Bluetooth DSS</th><th>Cummad</th><th></th><th></th></wwan>			WWAN PCE	Bluetooth DSS	Cummad		
WWAN	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. Bluetooth SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.467	0.195	0.66		
	GSM850	Right Tilted	0.286	0.117	0.40		
	GOIVIOOO	Left Cheek	0.359	0.002	0.36		
GSM		Left Tilted	0.236	0.028	0.26		
GSIVI		Right Cheek	0.083	0.195	0.28		
	GSM1900	Right Tilted	0.042	0.117	0.16		
	G3W1900	Left Cheek	0.184	0.002	0.19		
		Left Tilted	0.051	0.028	0.08		
		Right Cheek	0.200	0.195	0.40		
	Band V	Right Tilted	0.128	0.117	0.25		
WCDMA	Danu v	Left Cheek	0.166	0.002	0.17		
		Left Tilted	0.106	0.028	0.13		
		Right Cheek	0.119	0.195	0.31		
	Band IV	Right Tilted	0.037	0.117	0.15		
WCDIVIA	Danu IV	Left Cheek	0.137	0.002	0.14		
		Left Tilted	0.046	0.028	0.07		
	Band II	Right Cheek	0.073	0.195	0.27		
		Right Tilted	0.020	0.117	0.14		
		Left Cheek	0.116	0.002	0.12		
		Left Tilted	0.038	0.028	0.07		
		Right Cheek	0.007	0.195	0.20		
	Band 17	Right Tilted	0.008	0.117	0.13		
	Danu 17	Left Cheek	0.015	0.002	0.02		
		Left Tilted	0.007	0.028	0.04		
		Right Cheek	0.135	0.195	0.33		
LTE	Dond 4	Right Tilted	0.023	0.117	0.14		
LTE	Band 4	Left Cheek	0.157	0.002	0.16		
		Left Tilted	0.055	0.028	0.08		
		Right Cheek	0.024	0.195	0.22		
	Band 7	Right Tilted	0.014	0.117	0.13		
	Dailu /	Left Cheek	0.037	0.002	0.04		
		Left Tilted	0.003	0.028	0.03		

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15.2 Hotspot Exposure Conditions

<WWAN + WLAN>

SWWAIN T			WWAN PCE	WLAN DTS	Cummad		
WWAN	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Front	0.602	0.133	0.74		
		Back	0.861	0.297	1.16		
	GSM850	Left side	0.606	0.148	0.75		
		Top side		0.061	0.06		
GSM		Bottom side	0.209		0.21		
GSIVI		Front	0.621	0.133	0.75		
		Back	0.514	0.297	0.81		
	GSM1900	Left side	0.156	0.148	0.30		
		Top side		0.061	0.06		
		Bottom side	0.601		0.60		
		Front	0.243	0.133	0.38		
		Back	0.295	0.297	0.59		
	Band V	Left side	0.256	0.148	0.40		
		Top side		0.061	0.06		
		Bottom side	0.087		0.09		
		Front	0.491	0.133	0.62		
		Back	0.401	0.297	0.70		
WCDMA	Band IV	Left side	0.147	0.148	0.30		
		Top side		0.061	0.06		
		Bottom side	0.425		0.43		Case No
		Front	0.457	0.133	0.59		
		Back	0.411	0.297	0.71		
	Band II	Left side	0.104	0.148	0.25		
		Top side		0.061	0.06		
		Bottom side	0.463		0.46		

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		Funcions	WWAN PCE	WLAN DTS	Summed		
WWAN	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.030	0.133	0.16		
		Back	0.044	0.297	0.34		
	Band 17	Left side	0.019	0.148	0.17		
		Top side		0.061	0.06		
		Bottom side	0.008		0.01		
	Band 4	Front	0.496	0.133	0.63		
		Back	0.411	0.297	0.71		
LTE		Left side	0.155	0.148	0.30		
		Top side		0.061	0.06		
		Bottom side	0.457		0.46		
		Front	0.454	0.133	0.59		
		Back	0.670	0.297	0.97		
	Band 7	Left side	0.032	0.148	0.18		
		Top side		0.061	0.06		
		Bottom side	0.992		0.99		

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SPORTON LAB. FCC SAR Test Report

<WWAN + Bluetooth>

<wwan +<="" th=""><th>Bractoothi</th><th></th><th>WWAN PCE</th><th>Bluetooth DSS</th><th>0</th><th></th><th></th></wwan>	Bractoothi		WWAN PCE	Bluetooth DSS	0		
IAWW	N Band	Exposure Max. Position WWAN SAR (W/kg)		Max. Bluetooth SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Front	0.602	0.033	0.64		
		Back	0.861	0.064	0.93		
	GSM850	Left side	0.606	0.038	0.64		
		Top side		0.017	0.02		
GSM		Bottom side	0.209		0.21		
GSIVI		Front	0.621	0.033	0.65		
		Back	0.514	0.064	0.58		
	GSM1900	Left side	0.156	0.038	0.19		
		Top side		0.017	0.02		
		Bottom side	0.601		0.60		
		Front	0.243	0.033	0.28		
		Back	0.295	0.064	0.36		
	Band V	Left side	0.256	0.038	0.29		
		Top side		0.017	0.02		
		Bottom side	0.087		0.09		
		Front	0.491	0.033	0.52		
		Back	0.401	0.064	0.47		
WCDMA	Band IV	Left side	0.147	0.038	0.19		
		Top side		0.017	0.02		
		Bottom side	0.425		0.43		
		Front	0.457	0.033	0.49		
		Back	0.411	0.064	0.48		
	Band II	Left side	0.104	0.038	0.14		
		Top side		0.017	0.02		
		Bottom side	0.463		0.46		

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			WWAN PCE	Bluetooth DSS	Summed		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. Bluetooth SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.030	0.033	0.06		
		Back	0.044	0.064	0.11		
	Band 17	Left side	0.019	0.038	0.06		
		Top side		0.017	0.02		
		Bottom side	0.008		0.01		
	Band 4	Front	0.496	0.033	0.53		
		Back	0.411	0.064	0.48		
LTE		Left side	0.155	0.038	0.19		
		Top side		0.017	0.02		
		Bottom side	0.457		0.46		
		Front	0.454	0.033	0.49		
		Back	0.670	0.064	0.73		
	Band 7	Left side	0.032	0.038	0.07		
		Top side		0.017	0.02		
		Bottom side	0.992		0.99		

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15.3 Body-Worn Accessory Exposure Conditions

<WWAN + WLAN>

			WWAN PCE	WLAN DTS	Summed		
WWA	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.602	0.133	0.74		
GSM	GSIVIOSO	Back	0.861	0.297	1.16		
GSIVI	GSM1900	Front	0.621	0.133	0.75		
	G3W1900	Back	0.514	0.297	0.81		
	Band V	Front	0.243	0.133	0.38		
	вапи у	Back	0.295	0.297	0.59		
WCDMA	Band IV	Front	0.491	0.133	0.62		
WCDIVIA	Danu IV	Back	0.401	0.297	0.70		
	Band II	Front	0.457	0.133	0.59		
		Back	0.411	0.297	0.71		
	Band 17	Front	0.030	0.133	0.16		
	banu 17	Back	0.044	0.297	0.34		
LTE	Band 4	Front	0.496	0.133	0.63		
LIE	Dailu 4	Back	0.411	0.297	0.71		
	Dand 7	Front	0.454	0.133	0.59		
	Band 7	Back	0.670	0.297	0.97		

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<WWAN + Bluetooth>

	Biuetootii>		WWAN PCE	Bluetooth DSS			
WWA	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. Bluetooth SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
	GSM850	Front	0.602	0.033	0.64		
CSM	GSIVIOSO	Back	0.861	0.064	0.93		
GSM	GSM1900	Front	0.621	0.033	0.65		
	G3W11900	Back	0.514	0.064	0.58		
	Band V	Front	0.243	0.033	0.28		
	Danu v	Back	0.295	0.064	0.36		Case No
WCDMA	Band IV	Front	0.491	0.033	0.52		
WCDIVIA	Danu IV	Back	0.401	0.064	0.47		
	Band II	Front	0.457	0.033	0.49		
	Danu II	Back	0.411	0.064	0.48		
	Dand 17	Front	0.030	0.033	0.06		
	Band 17	Back	0.044	0.064	0.11		
LTE	Band 4	Front	0.496	0.033	0.53		
LIE	Dailu 4	Back	0.411	0.064	0.48		_
	Band 7	Front	0.454	0.033	0.49		
		Back	0.670	0.064	0.73		

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15.4 SPLSR Evaluation and Analysis

General Note:

SPLSR = (SAR₁ + SAR₂)^{1.5} / (min. separation distance, mm). If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary

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	Bond	Pand Position S		Gap	SAR pe	eak location	n (m)	3D	Summed SAR	SPLSR S	Simultaneous
Coco 1	Band	Position	(W/kg)	(cm)	Х	Υ	Z	distance (mm)	(W/kg)	Results	SAR
Case 1	GSM850	Diaht Chaole	0.467	0	0.0699	-0.275	-0.173	70.4		0.03	Not required
	WLAN2.4GHz	Right Cheek	1.183	0	0.0321	-0.334	-0.173	70.1	1.65	0.03	Not required
										•	
										•	
						1					
					WL	AN2.4GHz					
						,					
					GSM8	50					
	-4										

Test Engineer: Luke Lu

16. Uncertainty Assessment

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

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

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

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

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

Table 16.1. Standard Uncertainty for Assumed Distribution

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

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

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

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± 21.5 %

± 22.0 %

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

Expanded Uncertainty

17. References

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

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v2, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Mar 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 v01r03, "SAR Measurement Requirements for 100 MHz to 6 GHz", Feb 2014.
- [12] FCC KDB 865664 D02 v01r01, "RF Exposure Compliance Reporting and Documentation Considerations" May 2013.

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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 150511

DUT: D750V3-SN:1065

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

Medium: HSL_750_150511 Medium parameters used: f = 750 MHz; σ = 0.88 S/m; ϵ_r = 40.797; ρ =

 1000 kg/m^3

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

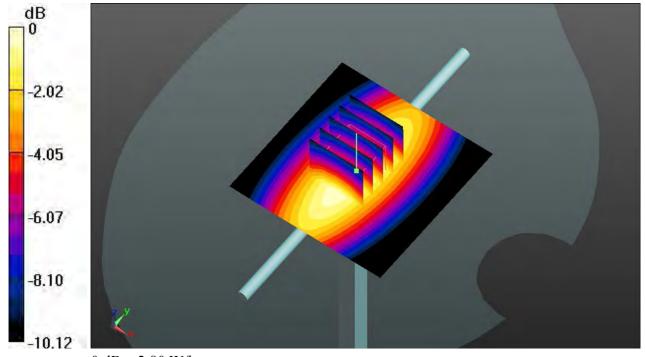
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.94, 9.94, 9.94); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 57.729 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.24 W/kg SAP(1g) = 2.13 W/kg; SAP(10g) = 1.45 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.45 W/kgMaximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.80 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2015.05.10

System Check Head 835MHz 150510

DUT: D835V2-SN: 4d091

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

Medium: HSL_835_150510 Medium parameters used: f = 835 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 40.859$; ρ

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

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

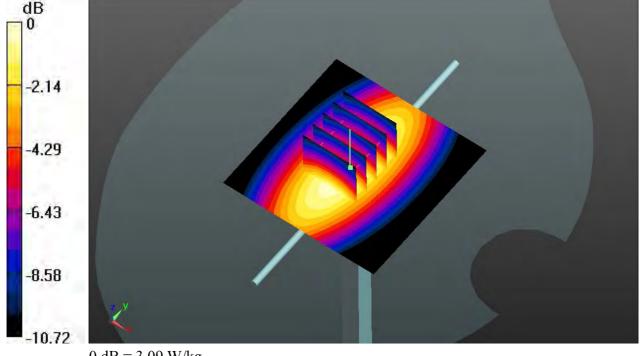
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.48, 9.48, 9.48); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 3.09 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 59.372 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.61 W/kgMaximum value of SAR (measured) = 3.10 W/kg



0 dB = 3.09 W/kg

System Check Head 1750MHz 150504

DUT: D1750V2-SN:1069

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

Medium: HSL_1800_150504 Medium parameters used: f = 1750 MHz; $\sigma = 1.378$ S/m; $\epsilon_r = 41.34$; ρ

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.9 °C

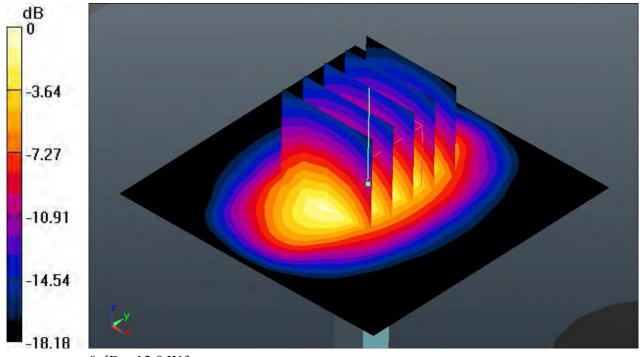
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(8.01, 8.01, 8.01); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 100.5 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5.08 W/kgMaximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.9 W/kg

System Check Head 1900MHz 150504

DUT: D1900V2-SN:5d118

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

Medium: HSL_1900_150504 Medium parameters used: f = 1900 MHz; $\sigma = 1.421$ S/m; $\epsilon_r = 41.283$;

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

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

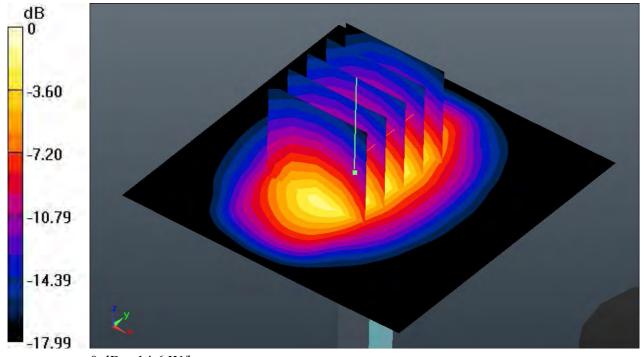
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.66, 7.66, 7.66); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 98.519 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.29 W/kgMaximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.6 W/kg

System Check Head 2450MHz 150512

DUT: D2450V2-SN:840

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

Medium: HSL_2450_150512 Medium parameters used: f = 2450 MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 39.753$; ρ

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

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

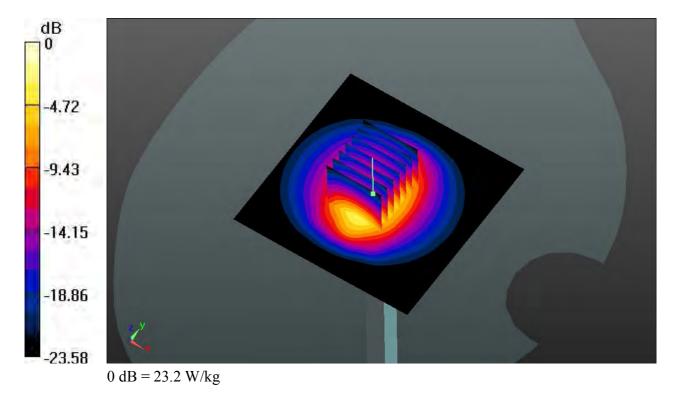
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.01, 7.01, 7.01); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 23.0 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 96.187 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 14.07 W/kg; SAR(10 g) = 5.29 W/kgMaximum value of SAR (measured) = 23.2 W/kg



System Check Head 2600MHz 150503

DUT: D2600V2-SN:1061

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

Medium: HSL_2600_150503 Medium parameters used: f = 2600 MHz; $\sigma = 2.054$ S/m; $\varepsilon_r = 38.328$;

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

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

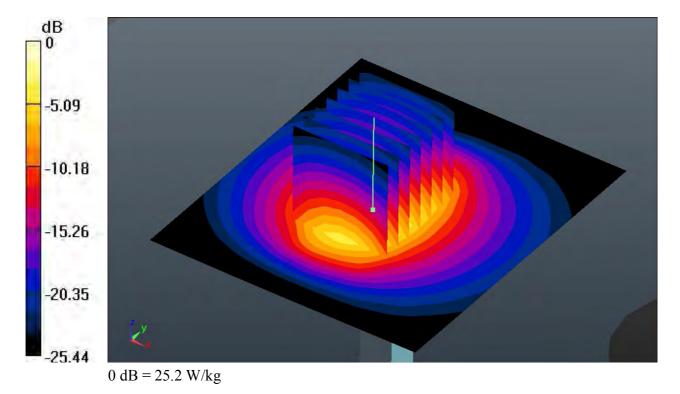
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.92, 6.92, 6.92); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 25.2 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 107.2 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 15.1 W/kg; SAR(10 g) = 7 W/kgMaximum value of SAR (measured) = 24.6 W/kg



System Check Body 750MHz 150511

DUT: D750V3-SN:1065

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

Medium: MSL_750_150511 Medium parameters used: f = 750 MHz; $\sigma = 0.961$ S/m; $\epsilon_r = 53.931$; ρ

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

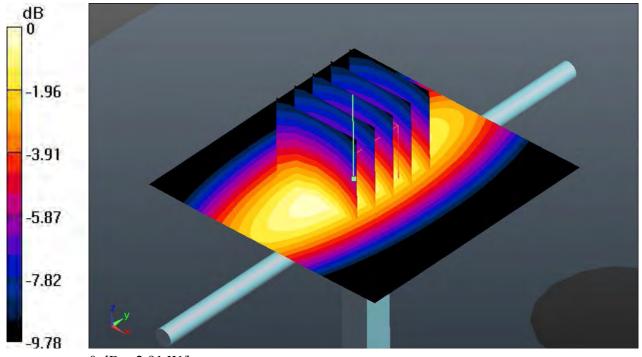
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.55, 9.55, 9.55); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.91 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 51.103 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.26 W/kg; SAR(10 g) = 1.53 W/kgMaximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.91 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2015.04.30

System Check Body 835MHz 150430

DUT: D835V2-SN: 4d091

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

Medium: MSL_835_150430 Medium parameters used: f = 835 MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 54.266$; ρ

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

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

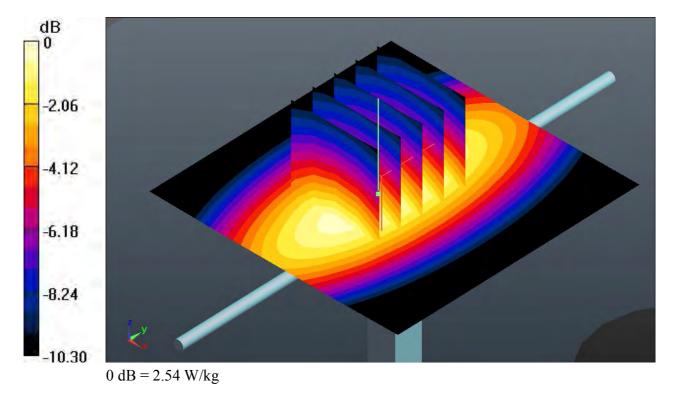
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.49, 9.49, 9.49); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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 = 50.849 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.55 W/kgMaximum value of SAR (measured) = 2.53 W/kg



System Check Body 1750MHz 150510

DUT: D1750V2-SN:1069

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

Medium: MSL_1800_150510 Medium parameters used: f = 1750 MHz; $\sigma = 1.527$ S/m; $\varepsilon_r = 51.995$;

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

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

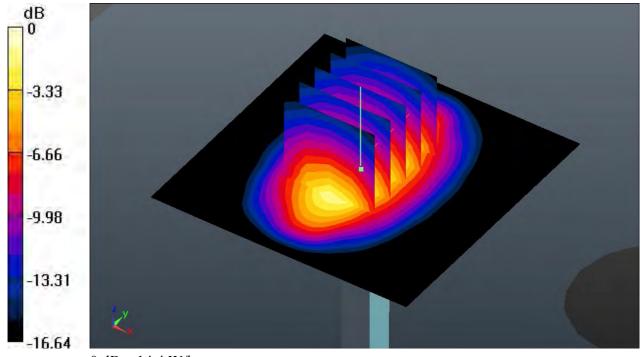
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.74, 7.74, 7.74); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 98.496 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.52 W/kgMaximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg

System Check Body 1900MHz 150510

DUT: D1900V2-SN:5d118

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

Medium: MSL_1900_150510 Medium parameters used: f = 1900 MHz; $\sigma = 1.576$ S/m; $\varepsilon_r = 54.215$;

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

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

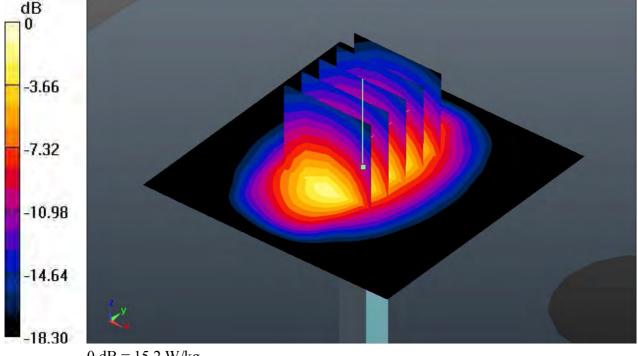
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

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

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 88.497 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 19.8 W/kg SAR(1 g) = 10.74 W/kg; SAR(10 g) = 5.09 W/kg

SAR(1 g) = 10.74 W/kg; SAR(10 g) = 5.09 W/kgMaximum value of SAR (measured) = 15.2 W/kg



0 dB = 15.2 W/kg

System Check Body 2450MHz 150513

DUT: D2450V2-SN:840

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

Medium: MSL_2450_150513 Medium parameters used: f = 2450 MHz; $\sigma = 1.949$ S/m; $\varepsilon_r = 51.667$;

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

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.9 °C

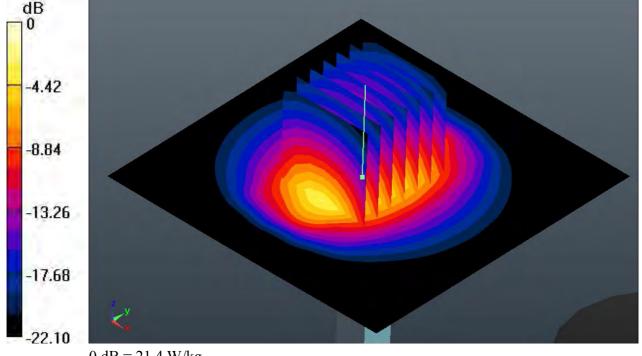
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.95, 6.95, 6.95); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 21.4 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 90.931 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 13.79 W/kg; SAR(10 g) = 6.09 W/kgMaximum value of SAR (measured) = 21.3 W/kg



0 dB = 21.4 W/kg

System Check Body 2600MHz 150509

DUT: D2600V2-SN:1061

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

Medium: MSL_2600_150509 Medium parameters used: f = 2600 MHz; $\sigma = 2.165$ S/m; $\varepsilon_r = 53.823$;

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

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

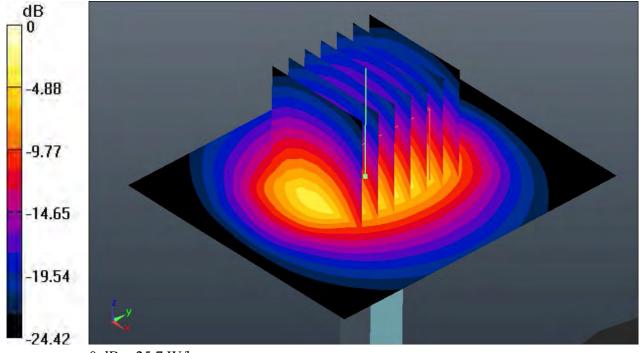
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.8, 6.8, 6.8); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 25.7 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.2 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 35.1 W/kg

SAR(1 g) = 14.9 W/kg; SAR(10 g) = 5.04 W/kgMaximum value of SAR (measured) = 25.3 W/kg



0 dB = 25.7 W/kg

Appendix B. Plots of High SAR Measurement

Report No.: FA540401

The plots are shown as follows.

SPORTON INTERNATIONAL (SHENZHEN) INC.

#01 GSM850 GPRS(4 Tx slots) Right Cheek Ch189

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.08 Medium: HSL_835_150510 Medium parameters used: f = 836.4 MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 40.842$; $\rho = 1000$ kg/m³

Date: 2015.05.10

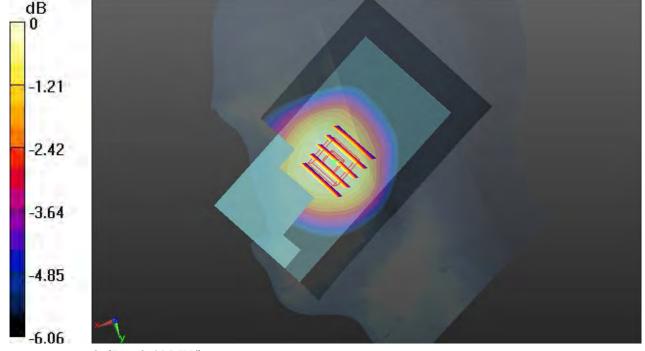
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.48, 9.48, 9.48); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch189/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.415 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.785 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.439 W/kg SAR(1 g) = 0.381 W/kg; SAR(10 g) = 0.317 W/kg Maximum value of SAR (measured) = 0.406 W/kg



0 dB = 0.415 W/kg

#02 GSM1900 GPRS(4 Tx slots) Left Cheek Ch512

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1850.2 MHz; Duty Cycle: 1:2.08 Medium: HSL_1900_150504 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 41.501$; $\rho = 1000$ kg/m³

Date: 2015.05.04

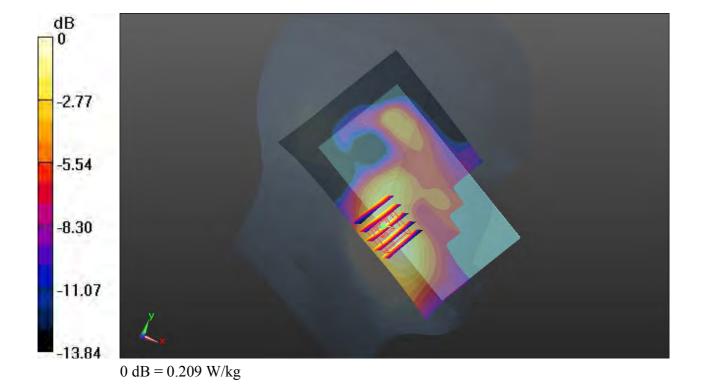
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.66, 7.66, 7.66); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch512/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.208 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.357 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.251 W/kg SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.106 W/kg Maximum value of SAR (measured) = 0.209 W/kg



#03 WCDMA Band V RMC 12.2Kbps Right Cheek Ch4233

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

Medium: HSL 835 150510 Medium parameters used: f = 846.6 MHz; $\sigma = 0.923$ S/m; $\varepsilon_r = 40.736$;

Date: 2015.05.10

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.48, 9.48, 9.48); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch4233/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.189 W/kg

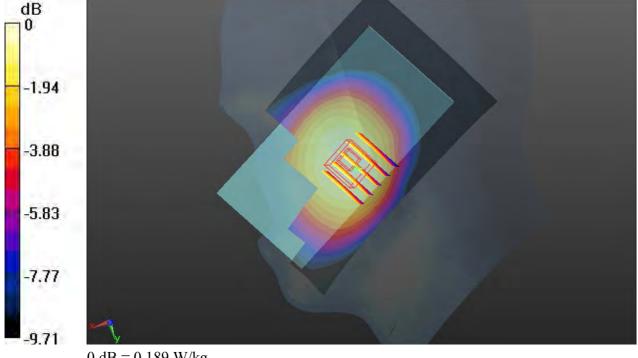
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.529 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.140 W/kg

Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.189 W/kg

#04 WCDMA Band IV RMC 12.2Kbps Left Cheek Ch1413

Communication System: UID 0, UMTS (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL_1800_150504 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 41.422$;

Date: 2015.05.04

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

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(8.01, 8.01, 8.01); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch1413/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.172 W/kg

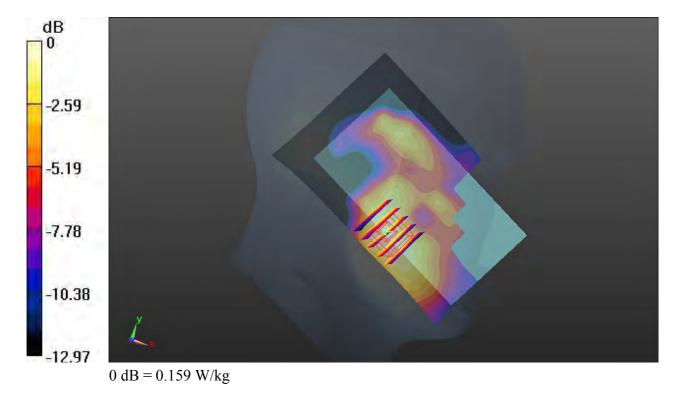
Ch1413/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.782 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.159 W/kg



#05 WCDMA Band II RMC 12.2Kbps Left Cheek Ch9262

Communication System: UID 0, UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1 Medium: HSL_1900_150504 Medium parameters used: f = 1852.4 MHz; σ = 1.372 S/m; ϵ_r =

Date: 2015.05.04

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.66, 7.66, 7.66); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch9262/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.148 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.515 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 0.158 W/kg SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.066 W/kg Maximum value of SAR (measured) = 0.129 W/kg



#06 LTE Band 17 10M QPSK 1RB 49Offset Left Cheek Ch23800

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

Medium: HSL_750_150511 Medium parameters used: f = 711 MHz; σ = 0.862 S/m; ϵ_r = 41.693; ρ

Date: 2015.05.11

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.94, 9.94, 9.94); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch23800/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.0220 W/kg

Ch23800/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 0.900 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.0190 W/kg

SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00961 W/kg

Maximum value of SAR (measured) = 0.0179 W/kg



0 dB = 0.0220 W/kg

#07 LTE Band 4 20M QPSK 1RB 0Offset Left Cheek Ch20050

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

 $Medium: HSL_1800_150504 \ Medium \ parameters \ used: \ f=1720 \ MHz; \ \sigma=1.346 \ S/m; \ \epsilon_r=41.493;$

Date: 2015.05.04

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

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(8.01, 8.01, 8.01); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch20050/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.211 W/kg

Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.228 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.098 W/kg

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



0 dB = 0.186 W/kg

#08 LTE Band 7 20M QPSK 1RB 99Offset Left Cheek Ch21350

Communication System: UID 0, LTE (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL_2600_150503 Medium parameters used: f = 2560 MHz; $\sigma = 2.007$ S/m; $\varepsilon_r = 38.54$; ρ

Date: 2015.05.03

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.92, 6.92, 6.92); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

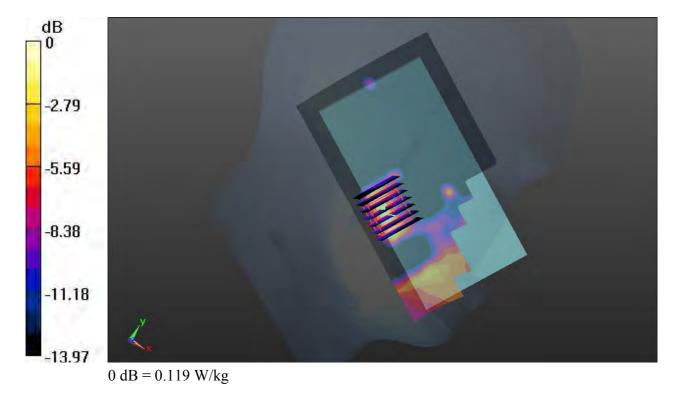
Ch21350/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.119 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.038 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0540 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.0425 W/kg



#09_WLAN2.4GHz 802.11b 1Mbps Right Cheek Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1.024

Medium: HSL 2450 150512 Medium parameters used: f = 2462 MHz; $\sigma = 1.833$ S/m; $\varepsilon_r = 39.712$;

Date: 2015.05.12

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

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.01, 7.01, 7.01); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch11/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 1.50 W/kg

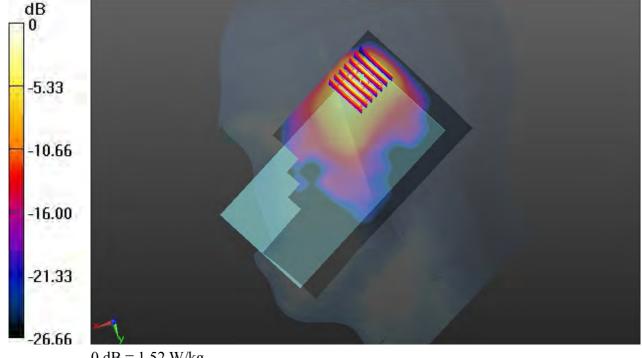
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.848 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.424 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg

#10 Bluetooth DH5 Right Cheek Ch39

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

Medium: HSL_2450_150512 Medium parameters used: f = 2441 MHz; σ = 1.81 S/m; ϵ_r = 39.784; ρ

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

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.01, 7.01, 7.01); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

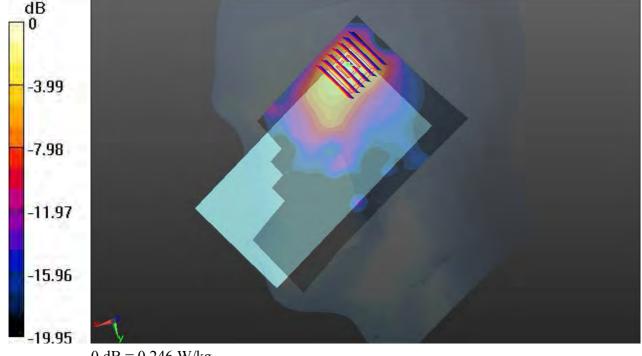
Ch39/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.246 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.437 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.246 W/kg

#11 GSM850 GPRS(4 Tx slots) Back 10mm Ch251

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_835_150430 Medium parameters used: f = 848.8 MHz; $\sigma = 0.987$ S/m; $\epsilon_r = 54.144$; $\rho = 1000$ kg/m³

Date: 2015.04.30

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

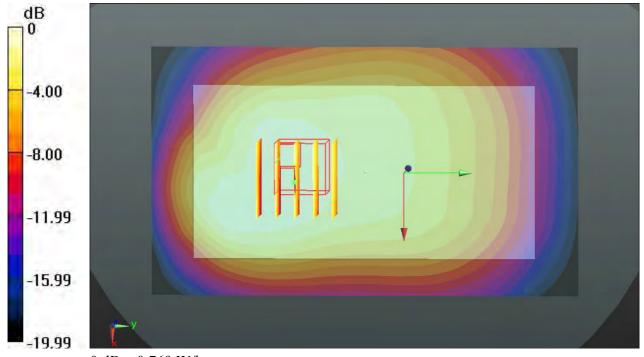
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.49, 9.49, 9.49); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch251/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.769 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 2.556 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 1.28 W/kg SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.461 W/kg

Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.769 W/kg

#12_GSM1900_GPRS(4 Tx slots)_Front_10mm_Ch512

Communication System: UID 0, GPRS/EDGE12 (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.08 Medium: MSL_1900_150510 Medium parameters used: f = 1850.2 MHz; $\sigma = 1.52$ S/m; $\epsilon_r = 54.398$; $\rho = 1000$ kg/m³

Date: 2015.05.10

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

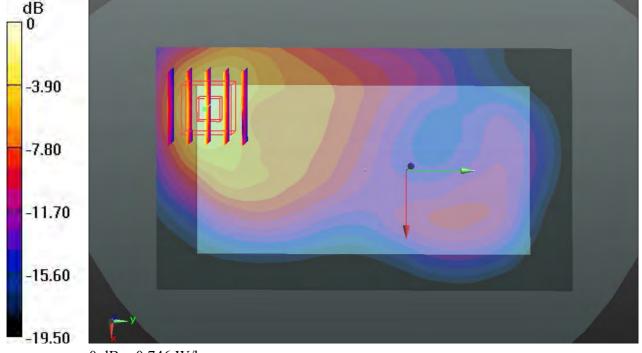
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch512/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.609 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.408 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 1.00 W/kg SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.281 W/kg Maximum value of SAR (measured) = 0.746 W/kg



0 dB = 0.746 W/kg

#13_WCDMA Band V_RMC 12.2K_Back_10mm_Ch4182

Communication System: UID 0, UMTS (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: MSL_835_150430 Medium parameters used: f = 836.4 MHz; $\sigma = 0.975$ S/m; $\varepsilon_r = 54.256$;

Date: 2015.04.30

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.49, 9.49, 9.49); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch4182/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.277 W/kg

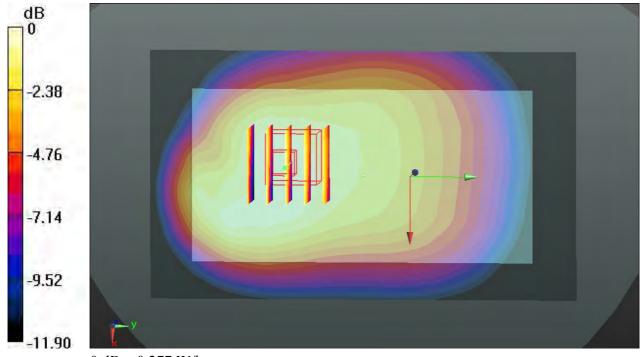
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.852 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.184 W/kg

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



0 dB = 0.277 W/kg

#14 WCDMA Band IV RMC 12.2Kbps Front 10mm Ch1513

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

Medium: MSL_1800_150510 Medium parameters used: f = 1752.6 MHz; $\sigma = 1.531$ S/m; $\epsilon_r = 51.987$;

Date: 2015.05.10

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

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

DASY5 Configuration:

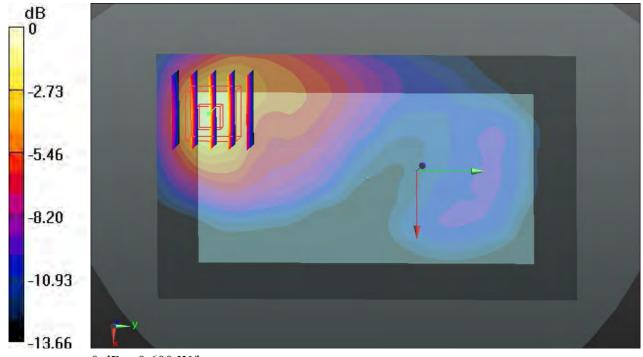
- Probe: EX3DV4 SN3819; ConvF(7.74, 7.74, 7.74); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch1513/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.497 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.154 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.240 W/kgMaximum value of SAR (measured) = 0.600 W/kg



0 dB = 0.600 W/kg

#15 WCDMA Band II RMC 12.2Kbps Bottom Side 10mm Ch9538

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

 $Medium: MSL_1900_150510 \ Medium \ parameters \ used: \ f=1907.6 \ MHz; \ \sigma=1.585 \ S/m; \ \epsilon_r=54.188;$

Date: 2015.05.10

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch9538/Area Scan (41x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.537 W/kg

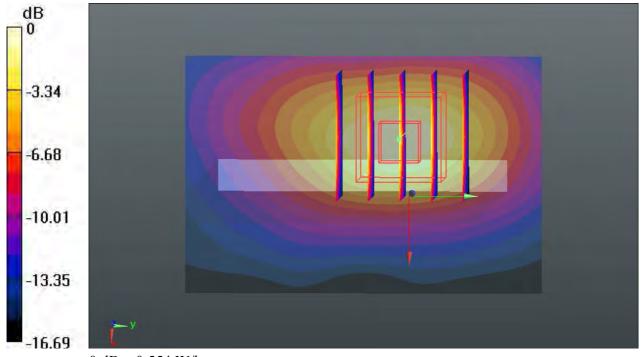
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.379 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.554 W/kg

#16_LTE Band 17_10M_QPSK_1RB_49Offset_Back_10mm_Ch23790

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

Medium: MSL_750_150511 Medium parameters used: f = 710 MHz; σ = 0.934 S/m; ϵ_r = 54.866; ρ

Date: 2015.05.11

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

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(9.55, 9.55, 9.55); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch23790/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.0446 W/kg

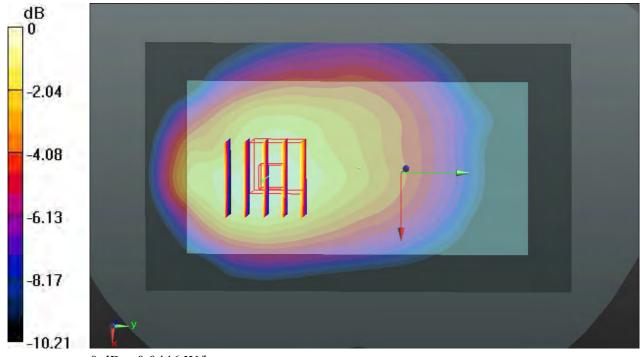
Ch23790/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.201 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0500 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0445 W/kg



0 dB = 0.0446 W/kg

Communication System: UID 0, LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: MSL_1800_150510 Medium parameters used: f = 1720 MHz; σ = 1.493 S/m; ϵ_r = 52.122;

Date: 2015.05.10

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.74, 7.74, 7.74); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch20050/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.478 W/kg

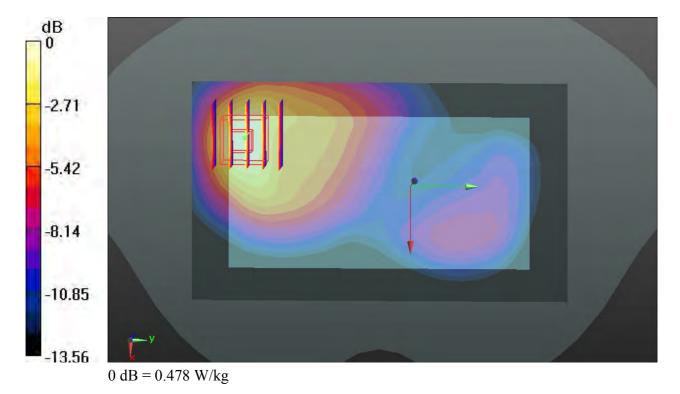
Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.093 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.755 W/kg

SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.261 W/kg

Maximum value of SAR (measured) = 0.633 W/kg



#18 LTE Band 7 20M QPSK 1RB 99Offset Bottom Side 10mm Ch20850

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

Medium: MSL 2600 150509 Medium parameters used: f = 2510 MHz; $\sigma = 2.071$ S/m; $\varepsilon_r = 53.993$;

Date: 2015.05.09

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.8, 6.8, 6.8); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch20850/Area Scan (41x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 1.30 W/kg

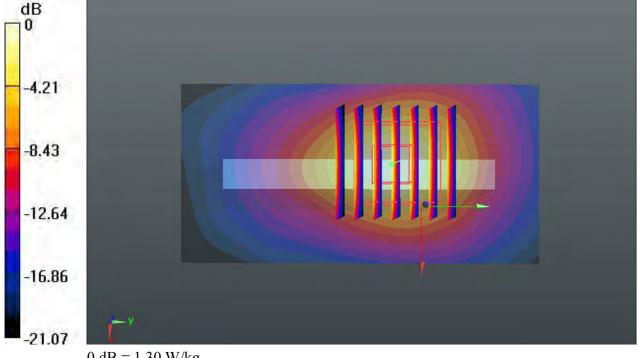
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.319 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.816 W/kg; SAR(10 g) = 0.360 W/kg

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



0 dB = 1.30 W/kg

#19 WLAN2.4GHz 802.11b 1Mbps Back 10mm Ch1

Communication System: UID 0, WIFI (0); Frequency: 2412 MHz; Duty Cycle: 1:1.024

Medium: MSL_2450_150513 Medium parameters used: f = 2412 MHz; σ = 1.899 S/m; ϵ_r = 51.803;

Date: 2015.05.13

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

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.95, 6.95, 6.95); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch1/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.385 W/kg

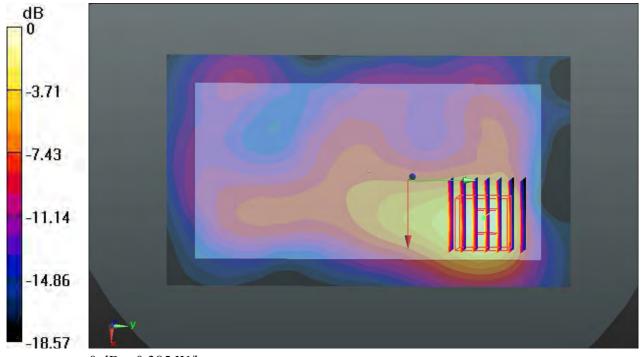
Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.345 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.374 W/kg



0 dB = 0.385 W/kg

#20 Bluetooth DH5 Back 10mm Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.2 Medium: MSL_2450_150513 Medium parameters used: f = 2441 MHz; $\sigma = 1.937$ S/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.9 °C

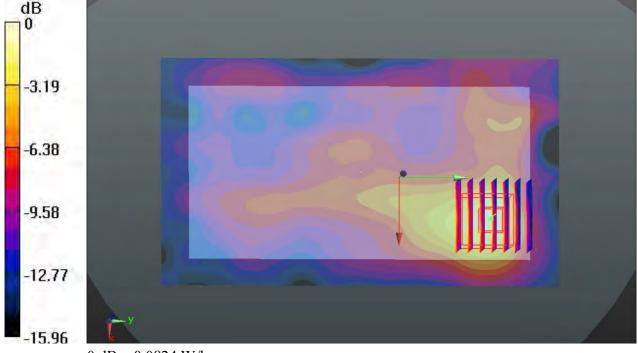
DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.95, 6.95, 6.95); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch39/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.0824 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.083 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.108 W/kg SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0790 W/kg



0 dB = 0.0824 W/kg

#21 WCDMA Band II RMC 12.2Kbps Front 10mm Ch9538

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

Medium: MSL 1900 150510 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.585$ S/m; $\varepsilon_r = 54.188$;

Date: 2015.05.10

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(7.39, 7.39, 7.39); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch9538/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.436 W/kg

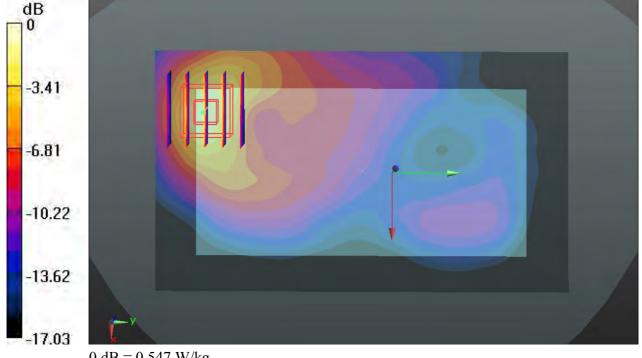
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.087 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.680 W/kg

SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.201 W/kg

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



0 dB = 0.547 W/kg

#22 LTE Band 7 20M QPSK 1RB 99Offset Back 10mm Ch20850

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

Medium: MSL_2600_150509 Medium parameters used: f = 2510 MHz; σ = 2.071 S/m; ϵ_r = 53.993;

Date: 2015.05.09

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

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

DASY5 Configuration:

- Probe: EX3DV4 SN3819; ConvF(6.8, 6.8, 6.8); Calibrated: 2014.11.13;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2014.12.11
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch20850/Area Scan (81x141x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.888 W/kg

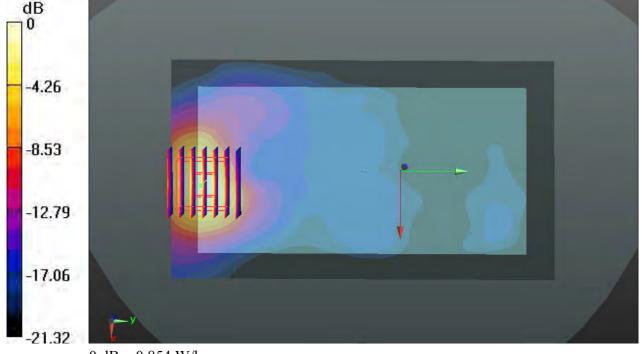
Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.477 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.244 W/kg

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg