# **FCC SAR Test Report**

APPLICANT : SGP Technologies S.A.

**EQUIPMENT**: Mobile Phone

BRAND NAME : Silent Circle

MODEL NAME : BP2H001AM1

FCC ID : 2ACDKBP2B001AM1

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

**ANSI/IEEE C95.1-1992** 

IEEE 1528-2013

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

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

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager





**Report No. : FA561105** 

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FCC ID: 2ACDKBP2B001AM1

Issued Date : Aug. 24, 2015

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# **Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA561105	Rev. 01	Initial issue of report	Aug. 24, 2015

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# 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for SGP Technologies S.A., Mobile Phone, BP2H001AM1 are as follows.

	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	0.84	1.25	1.25	
	GSM1900	0.37	1.03	1.38	
	WCDMA Band V	0.27	0.46	0.46	
	WCDMA Band IV	0.21	0.69	0.73	
PCE	WCDMA Band II	0.25	0.81	0.96	1.57
	LTE Band 17	0.11	0.29	0.29	
	LTE Band 4	0.24	0.73	0.79	
	LTE Band 2	0.29	0.78	1.03	
	LTE Band 7	<0.10	1.33	1.42	
DTS	WLAN 2.4GHz Band	0.58	0.23	0.23	1.55
	WLAN 5.2GHz Band			0.18	
NIII	WLAN 5.3GHz Band	0.48	0.31		4.57
NII	WLAN 5.5GHz Band	0.29	0.31		1.57
	WLAN 5.8GHz Band	0.16	0.21	0.21	
DSS	Bluetooth	0.16	<0.10	<0.10	1.42
Date of	Testing: Aug. 09, 2015 ~ Aug. 18, 2015			_	

	Highest SAR Summary	
Frequency Band	Extremity	
Band	10g SAR (W/kg)	
	(Gap 0mm)	
GSM850	1.66	
GSM1900	3.81	
LTE Band 7	1.40	

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg as averaged over any 1 gram of tissue; 4.0W/kg as averaged over any 10 gram of tissue for extremity SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

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# 2. Administration Data

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

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Applicant Applicant		
Company Name SGP Technologies S.A.		
Address	Rue François Peyrot 12, 1218 Le Grand Saconnex, (Le Lumion bldg) 3rd Floor, Geneva, Switzerland	

Manufacturer			
Company Name SGP Technologies S.A.			
Address	Rue François Peyrot 12, 1218 Le Grand Saconnex, (Le Lumion bldg) 3rd Floor, Geneva, Switzerland		

# 3. Guidance Standard

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- · IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r01
- FCC KDB 941225 D01 3G SAR Procedures v03
- FCC KDB 941225 D05 SAR for LTE Devices v02r03
- FCC KDB 941225 D06 Hotspot Mode SAR v02

# 4. Equipment Under Test (EUT)

# 4.1 General Information

Product Feature & Specification				
Equipment Name	Mobile Phone			
Brand Name	Silent Circle			
Model Name	BP2H001AM1			
FCC ID	2ACDKBP2B001AM1			
IMEI Code	359196060003160			
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 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5320 MHz WLAN 5.3GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.6GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz			
Mode	GSM/GPRS/EGPRS  RMC/AMR 12.2Kbps  HSDPA  HSUPA  DC-HSDPA  HSPA+ (Downlink Only)  LTE: QPSK, 16QAM  802.11b/g/n HT20  802.11a/n/HT20/HT40  Bluetooth v3.0+EDR, Bluetooth v4.0 LE			
HW Version	LLDM811			
SW Version	LLDAX01			
* *	Class B – EUT cannot support Packet Switched and Circuit Switched Network			
	simultaneously but can automatically switch between Packet and Circuit Switched Network.			
EUT Stage	Identical Prototype			

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#### Remark:

- 1. 802.11n-HT40 is not supported in 2.4GHz WLAN.
- 2. This device 2.4GHz WLAN supports Hotspot operation, and 2.4GHz /5.2GHz/ 5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
- 3. This device supported VoIP in GPRS/EGPRS, WCDMA, LTE (e.g. 3rd party VoIP).
- 4. This device supports GRPS/EGPRS mode up to multi-slot class33.
- This device does not support DTM operation.
   This device on TDWR band is notched.

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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)	33.50	30.00	
GPRS (GMSK, 1 Tx slot)	33.50	30.00	
GPRS (GMSK, 2 Tx slots)	33.00	30.00	
GPRS (GMSK, 3 Tx slots)	32.50	29.50	
GPRS (GMSK, 4 Tx slots)	32.00	29.50	
EDGE (8PSK, 1 Tx slot)	27.00	25.50	
EDGE (8PSK, 2 Tx slots)	27.00	25.50	
EDGE (8PSK, 3 Tx slots)	27.00	25.50	
EDGE (8PSK, 4 Tx slots)	27.00	25.50	

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Mode	Average power(dBm)		
iviode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
AMR 12.2Kbps	23.00	22.50	22.50
RMC 12.2Kbps	23.00	22.50	22.50
HSDPA Subtest-1	21.50	21.50	21.50
HSDPA Subtest-2	21.50	21.50	21.50
HSDPA Subtest-3	21.00	21.00	21.00
HSDPA Subtest-4	21.00	21.00	21.00
DC-HSDPA Subtest-1	21.50	21.00	21.50
DC-HSDPA Subtest-2	21.50	21.00	21.50
DC-HSDPA Subtest-3	21.00	20.50	21.00
DC-HSDPA Subtest-4	21.00	20.50	21.00
HSUPA Subtest-1	22.00	22.00	22.00
HSUPA Subtest-2	22.00	22.00	22.00
HSUPA Subtest-3	22.00	22.00	22.00
HSUPA Subtest-4	22.00	22.00	22.00
HSUPA Subtest-5	22.00	22.00	22.00

16QAM

16QAM

5

LTE Band 17					
	Av	erage Power (dB	m)		
Modulation	BW (MHz)	RB size	MPR	Target Power	
QPSK	10	≤ 12	0	23.50	
QPSK	10	> 12	1	22.50	
16QAM 10 ≤ 12 1 22.50					
16QAM	10	> 12	2	21.50	
QPSK	5	≤ 8	0	23.50	
QPSK	5	> 8	1	22.50	

≤ 8

> 8

1

2

22.50

21.50

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LTE Band 4					
Average Power (dBm)					
Modulation	BW (MHz)	RB size	MPR	Target Power	
QPSK	20	≤ 18	0	23.50	
QPSK	20	> 18	1	22.50	
16QAM	20	≤ 18	1	22.50	
16QAM	20	> 18	2	21.50	
QPSK	15	≤ 16	0	23.50	
QPSK	15	> 16	1	22.50	
16QAM	15	≤ 16	1	22.50	
16QAM	15	> 16	2	21.50	
QPSK	10	≤ 12	0	23.50	
QPSK	10	> 12	1	22.50	
16QAM	10	≤ 12	1	22.50	
16QAM	10	> 12	2	21.50	
QPSK	5	≤ 8	0	23.50	
QPSK	5	> 8	1	22.50	
16QAM	5	≤ 8	1	22.50	
16QAM	5	> 8	2	21.50	
QPSK	3	≤ 4	0	23.50	
QPSK	3	> 4	1	22.50	
16QAM	3	≤ 4	1	22.50	
16QAM	3	> 4	2	21.50	
QPSK	1.4	≤ 5	0	23.50	
QPSK	1.4	> 5	1	22.50	
16QAM	1.4	≤ 5	1	22.50	
16QAM	1.4	> 5	2	21.50	

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LTE Band 2									
	Av	erage Power (dB	m)						
Modulation	BW (MHz)	RB size	MPR	Target Power					
QPSK	20	≤ 18	0	23.50					
QPSK	20	> 18	1	22.50					
16QAM	20	≤ 18	1	22.50					
16QAM	20	> 18	2	21.50					
QPSK	15	≤ 16	0	23.50					
QPSK	15	> 16	1	22.50					
16QAM	15	≤ 16	1	22.50					
16QAM	15	> 16	2	21.50					
QPSK	10	≤ 12	0	23.50					
QPSK	10	> 12	1	22.50					
16QAM	10	≤ 12	1	22.50					
16QAM	10	> 12	2	21.50					
QPSK	5	≤ 8	0	23.50					
QPSK	5	> 8	1	22.50					
16QAM	5	≤ 8	1	22.50					
16QAM	5	> 8	2	21.50					
QPSK	3	≤ 4	0	23.50					
QPSK	3	> 4	1	22.50					
16QAM	3	≤ 4	1	22.50					
16QAM	3	> 4	2	21.50					
QPSK	1.4	≤ 5	0	23.50					
QPSK	1.4	> 5	1	22.50					
16QAM	1.4	≤ 5	1	22.50					
16QAM	1.4	> 5	2	21.50					

	LTE Band 7										
	A۱	verage Power (dB	m)								
Modulation	BW (MHz)	MPR	Target Power								
QPSK	20	≤ 18	0	20.50							
QPSK	20	> 18	1	19.50							
16QAM	20	≤ 18	1	19.50							
16QAM	20	> 18	2	18.50							
QPSK	15	≤ 16	0	20.50							
QPSK	15	> 16	1	19.50							
16QAM	15	≤ 16	1	19.50							
16QAM	15	> 16	2	18.50							
QPSK	10	≤ 12	0	20.50							
QPSK	10	> 12	1	19.50							
16QAM	10	≤ 12	1	19.50							
16QAM	10	> 12	2	18.50							
QPSK	5	≤ 8	0	20.50							
QPSK	5	> 8	1	19.50							
16QAM	5	≤ 8	1	19.50							
16QAM	5	> 8	2	18.50							

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Mode Average Power (dBm) CH<sub>1</sub> 15.0 802.11b CH 6 15.0 2.4GHz CH 11 15.5 802.11g 13.0 802.11n-HT20 10.5 802.11a 16.0 802.11n-HT20 13.0 12.0 802.11n-HT40 5.2GHz 802.11ac-VHT20 10.0 802.11ac-VHT40 10.0 802.11ac-VHT80 10.0 802.11a 16.0 802.11n-HT20 13.0 802.11n-HT40 12.0 5.3GHz 10.0 802.11ac-VHT20 802.11ac-VHT40 10.0 802.11ac-VHT80 10.0 802.11a 16.0 802.11n-HT20 13.5 11.5 802.11n-HT40 5.5GHz 802.11ac-VHT20 10.5 802.11ac-VHT40 10.0 802.11ac-VHT80 10.5 802.11a 16.5 802.11n-HT20 12.5 802.11n-HT40 12.0 5.8GHz 802.11ac-VHT20 11.0 802.11ac-VHT40 10.5 802.11ac-VHT80 10.5 CH 00 9.0 Bluetooth v3.0 + EDR **CH 39** 11.5 9.0 **CH 78** -0.5 CH 00 Bluetooth v4.0 LE **CH 19** 1.0 **CH 39** -1.0

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# 4.3 General LTE SAR Test and Reporting Considerations

Summarized r	nec	essary items	address	sed in K	DB 941	225 D05	v02r03			
FCC ID	2A	CDKBP2B00	1AM1							
Equipment Name	Мо	bile Phone								
	LTI	E Band 17: 70	06.5 MHz	~ 713.5	MHz					
Operating Frequency Range of each	LTI	E Band 4: 171	10.7 MHz	~ 1754.	3 MHz					
LTE transmission band	LT	E Band 2: 185	50.7 MHz	~ 1909.	3 MHz					
	LTE Band 7: 2502.5 MHz ~ 2567.5 MHz									
	LTE Band 17: 5MHz, 10MHz									
Channel Bandwidth		E Band 4:1.4								
Charlie Bandwidth		E Band 2:1.4					lz, 20MH	Z		
		E Band 7: 5M		Hz, 15MI	Hz, 20№	<u>lHz</u>				
uplink modulations used	QP	QPSK, and 16QAM								
LTE Voice / Data requirements	Data only									
		Table 6	6.2.3-1: Ma	ximum Po	wer Red	uction (MI	PR) for Pov	wer Class	3	
		Modulation	Cha	nnel bandv	vidth / Tra	nsmission	bandwidth (	(RB)	MPR (dB)	
LTE MPR permanently built-in by			1.4	3.0	5	10	15	20		
design			MHz	MHz	MHz	MHz	MHz	MHz		
		QPSK	>5	>4	>8	> 12	> 16	> 18	≤1 ≤1	
		16 QAM 16 QAM	≤5 >5	≤ 4 > 4	≥8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 1 ≤ 2	
ITE D. I. V. :	D0	TO CAN	70	24	>0	> 12	> 10	> 10	32	
LTE Release Version	R9									
									s set to NS_01	
LTE A-MPR			_		sting and	d the LTE	E SAR tes	sts was t	ransmitting on	
		TTI frames (N							_	
									AR and power	
Spectrum plots for RB configuration							ach RB	allocation	on and offset	
pectrum plots for RB configuration measurement; therefore, spectrum plots for each RB allocation and configuration are not included in the SAR report.										

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			Tr	ansmissi	on (H, M,	L) cł	nann			quer	ncies	in each L	TE band				
								LTE Ba	nd 17								
				Bandwidt	th 5 MHz							Bandwidth	(MHZ) (MHZ) 5 1717.5 20050 1720 5 1732.5 20175 1732.5 5 1747.5 20300 1745 Frod Bandwidth 20 MHz				
		Chann	iel#		F	=req.(	MHz	<b>:</b> )		Chan	inel#		F	req. (N	. (MHz)		
L		2375	55			700	6.5			237	780			709			
M		2379	90			71	0			237	790			710			
Н		2382	25			713.5 23800						711					
								LTE Ba	ınd 4								
	Bandw M	idth 1.∠ Hz	4	Bandwid	th 3 MHz	Ban	dwid	th 5 MHz	Bandwidt	h 10	MHz	Bandwidth	n 15 MHz	Bandw	ridth	า 20 MHz	
	Ch. #	Fred (MH:		Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)	Ch. #	Fre (MI	eq. Hz)	Ch. #		Ch. #	#		
L	19957	1710	).7	19965	1711.5	199	975	1712.5	20000	17	15	20025	1717.5	2005	0	1720	
Μ	20175	1732	2.5	20175	1732.5	201	75	1732.5	20175	173	32.5	20175	1732.5	2017	5	1732.5	
Н	20393	1754	1.3	20385	1753.5	203	375	1752.5	20350	17	50	20325	1747.5	2030	0	1745	
								LTE Ba	ınd 2								
	Bandw M	idth 1.∠ Hz	4	Bandwidt	th 3 MHz	Ban	dwid	th 5 MHz	Bandwidt	h 10	MHz	Bandwidth	n 15 MHz	Bandw	ridth	า 20 MHz	
	Ch. #	Fred (MH:		Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)	Ch. #	Fre (MI	eq. Hz)	Ch. #		Ch. #	<b>#</b>		
L	18607	1850	).7	18615	1851.5	186	325	1852.5	18650	18	55	18675	1857.5	1870	0	1860	
Μ	18900	188	0	18900	1880	189	900	1880	18900	18	80	18900	1880	1890	0	1880	
Н	19193	1909	9.3	19185	1908.5	191	75	1907.5	19150	19	05	19125	1902.5	1910	0	1900	
								LTE Ba	ınd 7								
	Ban	dwidth	1 5 N	ИHz		dwidt	h 10	MHz		dwidt	h 15	MHz	Ban	dwidth :	20 I	MHz	
	Ch. #	1	Fred	q. (MHz)	Ch. #	ŧ	Fre	q. (MHz)	Ch. #	ŧ	Fre	q. (MHz)	ИHz) Ch. #		Freq. (MH		
L	2077	5	2	502.5	20800	)		2505	20825	5	2	2507.5	2085	0	2	2510	
M	21100	)	2	2535	21100			2535	21100	)		2535	2110	0	2	2535	
Н	2142	5	2	567.5	21400	)		2565	21375	5	2	562.5	2135	0	2	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 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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# 6. Specific Absorption Rate (SAR)

## 6.1 Introduction

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

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### 6.2 SAR Definition

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

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

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

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

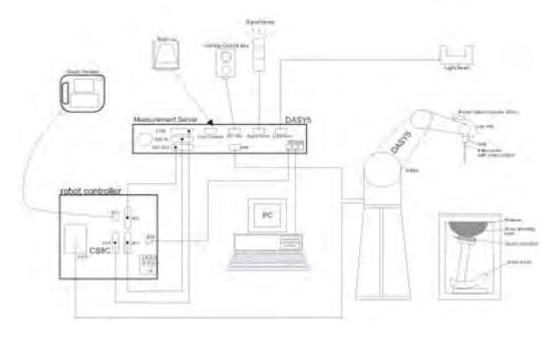
Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

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# 7. System Description and Setup

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



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

# 8. Measurement Procedures

The measurement procedures are as follows:

#### <Conducted power measurement>

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

#### <SAR measurement>

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

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

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

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Calculation of the averaged SAR within masses of 1g and 10g

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### 8.2 Power Reference Measurement

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

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### 8.3 Area Scan

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

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

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

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### 8.4 Zoom Scan

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

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

			≤ 3 GHz	> 3 GHz	
Maximum zoom scan s	spatial reso	lution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>	$\leq$ 2 GHz: $\leq$ 8 mm 2 – 3 GHz: $\leq$ 5 mm <sup>*</sup>	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz: } \le 4 \text{ mm}$ $4 - 5 \text{ GHz: } \le 3 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$	
	graded	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	5 - 6 GHz: ≤ 2 mm 3 - 4 GHz: ≤ 3 mm 4 - 5 GHz: ≤ 2.5 mm 5 - 6 GHz: ≤ 2 mm	
	grid	Δz <sub>Zoom</sub> (n>1): between subsequent points	≤ 1.5·∆z	Zoom(n-1)	
Minimum zoom scan volume	X V 7		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

Note:  $\delta$  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 <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is  $\leq 1.4$  W/kg,  $\leq 8$  mm,  $\leq 7$  mm and  $\leq 5$  mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

# 9. Test Equipment List

Managartanan	Name of Engineers	Towns (Manufall	O a si a l Nivera la anc	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	5000MHz System Validation Kit	D5GHzV2	1113	Nov. 24, 2014	Nov. 23, 2015
SPEAG	Data Acquisition Electronics	DAE4	679	Apr. 13, 2015	Apr. 12, 2016
SPEAG	Data Acquisition Electronics	DAE4	1210	May 21, 2015	May 20, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3911	Oct. 02, 2014	Oct. 01, 2015
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	May 28, 2015	May 27, 2016
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1753	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1754	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1477	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1479	NCR	NCR
Agilent	Wireless Communication Test Set	E5515C	MY52102600	Dec. 09, 2014	Dec. 08, 2015
Anritus	Radio communication analyzer	MT8820C	6201091028	Dec. 09, 2014	Dec. 08, 2015
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Dec. 09, 2014	Dec. 08, 2015
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	May 04, 2015	May 03, 2016
Agilent	Dielectric Probe Kit	85070E	MY44300475	NCR	NCR
R&S	Signal Generator	SMBV100A	258305	Jan. 23, 2015	Jan. 22, 2016
Agilent	Dielectric Probe Kit	85070E	MY44300751	NCR	NCR
Anritsu	Power Senor	MA2411B	0917070	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1005002	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Sensor	MA2411B	1207253	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Meter	ML2495A	1218010	Jan. 28, 2015	Jan. 27, 2016
Anritsu	Power Senor	MA2411B	1339163	Jan. 23, 2015	Jan. 22, 2016
Anritsu	Power Meter	ML2495A	1435004	Jan. 23, 2015	Jan. 22, 2016
ARRA	Power Divider	A3200-2	N/A	NA	NA
R&S	CBT BLUETOOTH TESTER	CBT	100783	Aug. 10, 2015	Aug. 09, 2016
R&S	Spectrum Analyzer	FSP40	100319	Oct. 28, 2014	Oct. 27, 2015
R&S	Spectrum Analyzer	FSP7	101045	Dec. 09, 2014	Dec. 08, 2015
Agilent	Dual Directional Coupler	778D	50422	No	te1
Woken	Attenuator 1	WK0602-XX	N/A	No	te1
PE	Attenuator 2	PE7005-10	N/A	No	te1
PE	Attenuator 3	PE7005-3	N/A	No	te1
AR	Power Amplifier	5S1G4M2	0328767	No	te1
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	No	te1
Mini-Circuits	Power Amplifier	ZHL-42W+	13440021344	No	te1

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#### **General Note:**

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

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# 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				

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

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<Tissue Dielectric Parameter Check Results>

Frequency		Liquid	Conductivity		Conductivity	Permittivity	Delta	Delta	Limit	
(MHz)	Type	Temp. (℃)	(σ)	(ε <sub>r</sub> )	Target (σ)	Target $(\varepsilon_r)$	(σ) (%)	(ε <sub>r</sub> ) (%)	(%)	Date
750	Head	22.5	0.894	41.019	0.89	41.9	0.45	-2.10	±5	Aug. 17, 2015
835	Head	22.4	0.913	40.859	0.9	41.5	1.44	-1.54	±5	Aug. 17, 2015
1750	Head	22.6	1.395	41.214	1.37	40.1	1.82	2.78	±5	Aug. 16, 2015
1900	Head	22.5	1.445	39.686	1.4	40	3.21	-0.79	±5	Aug. 15, 2015
2450	Head	22.5	1.843	37.677	1.8	39.2	2.39	-3.89	±5	Aug. 18, 2015
2450	Head	22.8	1.82	39.225	1.80	39.20	1.11	0.06	±5	Aug. 17, 2015
2600	Head	22.7	2.049	37.739	1.96	39	4.54	-3.23	±5	Aug. 18, 2015
5200	Head	22.9	4.795	35.457	4.66	36.00	2.90	-1.51	±5	Aug. 13, 2015
5300	Head	22.9	4.898	35.314	4.76	35.90	2.90	-1.63	±5	Aug. 13, 2015
5600	Head	22.9	5.206	34.73	5.07	35.50	2.68	-2.17	±5	Aug. 13, 2015
5800	Head	22.6	5.393	34.362	5.27	35.30	2.33	-2.66	±5	Aug. 13, 2015
750	Body	22.6	0.967	53.993	0.96	55.5	0.73	-2.72	±5	Aug. 17, 2015
835	Body	22.7	0.97	53.68	0.97	55.2	0.00	-2.75	±5	Aug. 16, 2015
1750	Body	22.6	1.517	54.305	1.49	53.4	1.81	1.69	±5	Aug. 13, 2015
1900	Body	22.6	1.559	53.099	1.52	53.3	2.57	-0.38	±5	Aug. 14, 2015
2450	Body	22.6	1.949	53.894	1.95	52.7	-0.05	2.27	±5	Aug. 17, 2015
2450	Body	22.8	1.932	51.266	1.95	52.70	-0.92	-2.72	±5	Aug. 17, 2015
2600	Body	22.6	2.189	51.328	2.16	52.5	1.34	-2.23	±5	Aug. 09, 2015
5200	Body	22.7	5.264	48.303	5.30	49.00	-0.68	-1.42	±5	Aug. 17, 2015
5300	Body	22.7	5.404	48.094	5.42	48.90	-0.30	-1.65	±5	Aug. 17, 2015
5600	Body	22.7	5.834	47.448	5.77	48.50	1.11	-2.17	±5	Aug. 17, 2015
5800	Body	22.7	6.096	46.929	6.00	48.20	1.60	-2.64	±5	Aug. 17, 2015

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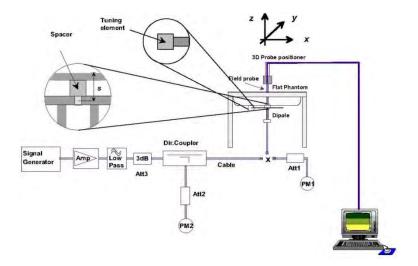
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## 10.2 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targete d SAR (W/kg)	Normalized SAR (W/kg)	Deviatio n (%)
Aug. 17, 2015	750	Head	250	1065	3911	679	2.09	8.14	8.36	2.70
Aug. 17, 2015	835	Head	250	4d091	3911	679	2.29	9.11	9.16	0.55
Aug. 16, 2015	1750	Head	250	1069	3911	679	8.68	37.1	34.72	-6.42
Aug. 15, 2015	1900	Head	250	5d118	3911	679	9.59	40.1	38.36	-4.34
Aug. 18, 2015	2450	Head	250	840	3911	679	13.9	52.3	55.6	6.31
Aug. 17, 2015	2450	Head	250	840	3857	1210	12.8	52.3	51.2	-2.10
Aug. 18, 2015	2600	Head	250	1061	3911	679	15.4	56.9	61.6	8.26
Aug. 13, 2015	5200	Head	100	1113	3857	1210	8.06	80	80.6	0.75
Aug. 13, 2015	5300	Head	100	1113	3857	1210	8.05	82.4	80.5	-2.31
Aug. 13, 2015	5600	Head	100	1113	3857	1210	8.52	82.4	85.2	3.40
Aug. 13, 2015	5800	Head	100	1113	3857	1210	7.65	78.5	76.5	-2.55
Aug. 17, 2015	750	Body	250	1065	3911	679	2.18	8.64	8.72	0.93
Aug. 16, 2015	835	Body	250	4d091	3911	679	2.3	9.6	9.2	-4.17
Aug. 13, 2015	1750	Body	250	1069	3911	679	8.88	38.1	35.52	-6.77
Aug. 14, 2015	1900	Body	250	5d118	3911	679	10.1	40	40.4	1.00
Aug. 17, 2015	2450	Body	250	840	3911	679	12.5	51	50	-1.96
Aug. 17, 2015	2450	Body	250	840	3857	1210	12.1	51	48.4	-5.10
Aug. 09, 2015	2600	Body	250	1061	3911	679	14.8	54.9	59.2	7.83
Aug. 17, 2015	5200	Body	100	1113	3857	1210	7.19	74.9	71.9	-4.01
Aug. 17, 2015	5300	Body	100	1113	3857	1210	7.42	77.8	74.2	-4.63
Aug. 17, 2015	5600	Body	100	1113	3857	1210	7.6	81.5	76	-6.75
Aug. 17, 2015	5800	Body	100	1113	3857	1210	7.13	75.4	71.3	-5.44





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Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

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### 11.1 Ear and handset reference point

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



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

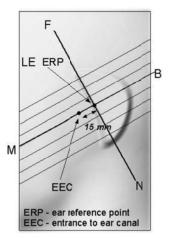
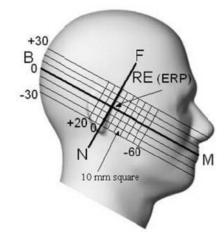


Fig 9.1.2 Close-up side view of phantom showing the ear region.



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

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### 11.2 Definition of the cheek position

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

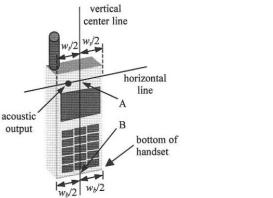
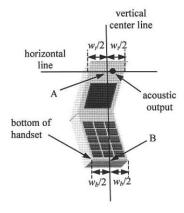
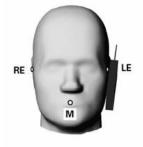


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case



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



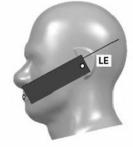




Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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### 11.3 Definition of the tilt position

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

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



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

### 11.4 Body Worn Accessory

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

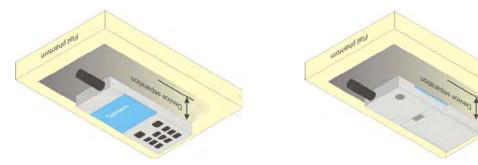


Fig 9.4 Body Worn Position

### 11.5 Extremity Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474D04v01r02,the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

- 1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- 2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

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## 11.6 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 x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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

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

#### <GSM Conducted Power>

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

Band GSM850	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	33.03	32.31	32.24	33.50	24.03	23.31	23.24	24.50
GPRS (GMSK, 1 Tx slot)	33.01	32.29	32.22	33.50	24.01	23.29	23.22	24.50
GPRS (GMSK, 2 Tx slots)	32.44	32.10	31.96	33.00	26.44	26.10	25.96	27.00
GPRS (GMSK, 3 Tx slots)	32.22	31.80	31.70	32.50	27.96	27.54	27.44	28.24
GPRS (GMSK, 4 Tx slots)	31.93	31.36	31.40	32.00	<mark>28.93</mark>	28.36	28.40	29.00
EDGE (8PSK, 1 Tx slot)	26.77	26.19	26.15	27.00	17.77	17.19	17.15	18.00
EDGE (8PSK, 2 Tx slots)	26.47	26.13	26.01	27.00	20.47	20.13	20.01	21.00
EDGE (8PSK, 3 Tx slots)	26.26	25.92	25.86	27.00	22.00	21.66	21.60	22.74
EDGE (8PSK, 4 Tx slots)	26.12	25.57	25.62	27.00	23.12	22.57	22.62	24.00
Band GSM1900	Burst Ave	erage Pov	ver (dBm)	Tune-up	Frame-Av	erage Pov	wer (dBm)	
Band GSM1900 TX Channel	Burst Ave	erage Pov 661	ver (dBm) 810	Limit	Frame-Av 512	erage Pov 661	wer (dBm) 810	Tune-up Limit
				-				Tune-up
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512	661	810	Limit	512	661	810	Tune-up Limit
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot)	512 1850.2	661 1880	810 1909.8	Limit (dBm)	512 1850.2	661 1880	810 1909.8	Tune-up Limit (dBm)
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots)	512 1850.2 29.41	661 1880 <b>29.58</b>	810 1909.8 29.31	Limit (dBm) 30.00	512 1850.2 20.41	661 1880 20.58	810 1909.8 20.31	Tune-up Limit (dBm) 21.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots)	512 1850.2 29.41 29.39	661 1880 <b>29.58</b> 29.56	810 1909.8 29.31 29.29	Limit (dBm) 30.00 30.00	512 1850.2 20.41 20.39	661 1880 20.58 20.56	810 1909.8 20.31 20.29	Tune-up Limit (dBm) 21.00 21.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots) GPRS (GMSK, 4 Tx slots)	512 1850.2 29.41 29.39 29.09	661 1880 <b>29.58</b> 29.56 29.52	810 1909.8 29.31 29.29 29.12	Limit (dBm) 30.00 30.00 30.00	512 1850.2 20.41 20.39 23.09	661 1880 20.58 20.56 23.52	810 1909.8 20.31 20.29 23.12	Tune-up Limit (dBm) 21.00 21.00 24.00
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots) GPRS (GMSK, 4 Tx slots) EDGE (8PSK, 1 Tx slot)	512 1850.2 29.41 29.39 29.09 28.92	661 1880 <b>29.58</b> 29.56 29.52 29.28	810 1909.8 29.31 29.29 29.12 28.95	Limit (dBm) 30.00 30.00 30.00 29.50	512 1850.2 20.41 20.39 23.09 24.66	661 1880 20.58 20.56 23.52 25.02	810 1909.8 20.31 20.29 23.12 24.69	Tune-up Limit (dBm) 21.00 21.00 24.00 25.24
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots) GPRS (GMSK, 4 Tx slots)	512 1850.2 29.41 29.39 29.09 28.92 28.74	661 1880 <b>29.58</b> 29.56 29.52 29.28 29.03	810 1909.8 29.31 29.29 29.12 28.95 28.77	Limit (dBm) 30.00 30.00 30.00 29.50 29.50	512 1850.2 20.41 20.39 23.09 24.66 25.74	661 1880 20.58 20.56 23.52 25.02 26.03	810 1909.8 20.31 20.29 23.12 24.69 25.77	Tune-up Limit (dBm) 21.00 21.00 24.00 25.24 26.50
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) GPRS (GMSK, 2 Tx slots) GPRS (GMSK, 3 Tx slots) GPRS (GMSK, 4 Tx slots) EDGE (8PSK, 1 Tx slot)	512 1850.2 29.41 29.39 29.09 28.92 28.74 24.98	661 1880 29.58 29.56 29.52 29.28 29.03 25.14	810 1909.8 29.31 29.29 29.12 28.95 28.77 25.09	Limit (dBm) 30.00 30.00 30.00 29.50 29.50 25.50	512 1850.2 20.41 20.39 23.09 24.66 25.74 15.98	661 1880 20.58 20.56 23.52 25.02 26.03 16.14	810 1909.8 20.31 20.29 23.12 24.69 25.77 16.09	Tune-up Limit (dBm) 21.00 21.00 24.00 25.24 26.50 16.50

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

The calculated method are shown as below:

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

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

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

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#### <WCDMA Conducted Power>

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

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 For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

#### **HSDPA Setup Configuration:**

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

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

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

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{ls} = 30/15 * \beta_c$ .

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

with  $\beta_{ls}$  = 24/15 \*  $\beta_c$ . Note 3: CM = 1 for  $\beta_c/\beta_d$  =12/15,  $\beta_{hs}/\beta_c$ =24/15. For all other combinations of DPDCH, DPCCH and HSDPCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

**Setup Configuration** 

#### **HSUPA Setup Configuration:**

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

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

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

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

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

**Setup Configuration** 

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

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

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

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

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

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

	Parameter	Unit	Value
Nominal A	Avg. Inf. Bit Rate	kbps	60
Inter-TTI	Distance	TTI's	1
Number of	of HARQ Processes	Proces	6
		ses	0
Information	on Bit Payload ( $N_{\mathit{INF}}$ )	Bits	120
Number (	Code Blocks	Blocks	1
Binary Cl	nannel Bits Per TTI	Bits	960
Total Ava	ilable SML's in UE	SML's	19200
Number of	of SML's per HARQ Proc.	SML's	3200
Coding R	ate		0.15
Number of	of Physical Channel Codes	Codes	1
Modulatio	on		QPSK
Note 1:	The RMC is intended to be used for	or DC-HSD	PA
	mode and both cells shall transmit	with identi	ical
	parameters as listed in the table.		
Note 2:			
	retransmission is not allowed. The		cy and
	constellation version 0 shall be use	ed.	

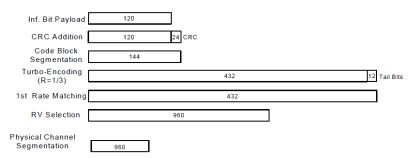


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

### **Setup Configuration**

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### < WCDMA Conducted Power>

#### **General Note:**

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

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

	Bar	nd	WCI	DMA Bai	nd V	WC	DMA Ba	nd II	WCE	1537 1638 1738 712.4 1732.6 1752. 21.86 21.82 21.80 21.88 21.84 21.82 21.07 20.97 20.97	
	TX Ch	annel	4132	4182	4233	9262	9400	9538	1312	1413	1513
	Rx Channel			4407	4458	9662	9800	9938	1537	1638	1738
	Frequenc	y (MHz)	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
MPR (dB)	3GPP Rel 99	AMR 12.2Kbps	21.36	22.57	22.50	21.82	21.87	22.18	21.86	21.82	21.80
	3GPP Rel 99	RMC 12.2Kbps	21.38	<b>22.59</b>	22.52	21.84	21.89	22.20	<b>21.88</b>	21.84	21.82
0	3GPP Rel 6	HSDPA Subtest-1	19.85	21.25	21.15	20.70	20.61	20.90	21.07	20.97	20.97
0	3GPP Rel 6	HSDPA Subtest-2	19.79	21.25	21.29	20.69	20.63	20.93	21.09	20.99	20.97
0.5	3GPP Rel 6	HSDPA Subtest-3	19.48	20.84	20.80	20.27	20.24	20.53	20.55	20.48	20.48
0.5	3GPP Rel 6	HSDPA Subtest-4	19.45	20.88	20.80	20.25	20.26	20.52	20.67	20.63	20.57
0	3GPP Rel 8	DC-HSDPA Subtest-1	19.93	21.23	21.40	20.68	20.72	20.64	21.06	20.96	20.94
0	3GPP Rel 8	DC-HSDPA Subtest-2	20.00	21.24	21.32	20.68	20.70	20.65	21.05	20.96	20.92
0.5	3GPP Rel 8	DC-HSDPA Subtest-3	19.67	20.82	20.86	20.20	20.22	20.19	20.53	20.46	20.47
0.5	3GPP Rel 8	DC-HSDPA Subtest-4	19.52	20.80	20.90	20.21	20.24	20.18	20.52	20.47	20.46
0	3GPP Rel 6	HSUPA Subtest-1	20.57	21.03	21.55	20.99	21.41	21.65	21.20	21.25	21.52
2	3GPP Rel 6	HSUPA Subtest-2	20.21	20.31	20.60	20.21	20.43	20.58	20.76	20.48	20.66
1	3GPP Rel 6	HSUPA Subtest-3	19.40	20.06	20.25	20.51	21.36	20.65	20.94	20.15	20.77
2	3GPP Rel 6	HSUPA Subtest-4	20.02	21.24	20.83	20.73	20.66	21.18	20.91	20.76	20.72
0	3GPP Rel 6	HSUPA Subtest-5	20.95	21.27	21.40	21.36	21.35	21.66	21.43	21.37	21.52

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## <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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# FCC SAR Test Report

<LTE Band 17>

<lie dali<="" th=""><th><u>u 172</u></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></lie>	<u>u 172</u>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune up Limit	MPR (dB)
	Cha	nnel		23780	23790	23800	(dBm)	(dB)
	Frequenc	cy (MHz)		709	710	711		
10	QPSK	1	0	23.11	23.01	22.95		
10	QPSK	1	24	23.04	22.95	22.93	23.50	0
10	QPSK	1	49	23.19	<b>23.28</b>	23.03		
10	QPSK	25	0	22.02	22.08	21.97		
10	QPSK	25	12	21.96	22.06	21.91	22.50	0.4
10	QPSK	25	24	21.96	21.99	21.90	22.50	0-1
10	QPSK	50	0	21.91	22.02	21.98		
10	16QAM	1	0	22.41	22.31	22.41		
10	16QAM	1	24	22.23	22.15	22.16	22.50	0-1
10	16QAM	1	49	22.39	22.30	22.40		
10	16QAM	25	0	20.95	21.12	21.05		
10	16QAM	25	12	20.92	21.06	21.05	24.50	0.0
10	16QAM	25	24	21.06	21.09	20.90	21.50	0-2
10	16QAM	50	0	20.94	21.01	20.84		
	Cha	nnel		23755	23790	23825	Tune up	MPR
	Frequenc	cy (MHz)		706.5	710	713.5	Limit (dBm)	(dB)
5	QPSK	1	0	22.71	22.91	23.11		
5	QPSK	1	12	23.07	22.98	22.96	23.50	0
5	QPSK	1	24	23.00	22.93	22.67		
5	QPSK	12	0	21.91	21.95	21.91		
5	QPSK	12	6	22.05	21.99	21.94	22.50	0-1
5	QPSK	12	11	22.01	21.95	21.93	22.50	0-1
5	QPSK	25	0	21.95	21.92	21.80		
5	16QAM	1	0	22.27	22.31	22.28		
5	16QAM	1	12	21.77	22.22	22.21	22.50	0-1
5	16QAM	1	24	22.32	22.34	22.16		
5	16QAM	12	0	20.93	20.96	20.82		
5	16QAM	12	6	20.95	20.92	20.89	21.50	0-2
5	16QAM	12	11	20.95	20.91	20.83	21.50	0-2
5	16QAM	25	0	20.90	20.87	20.80		

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<LTE Band 4>

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BW		RB	RB	Power	Power	Power		
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR
[=]			Gildot	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)
	Cha			20050	20175	20300	(dBm)	(UD)
	Frequenc	cy (MHz)		1720	1732.5	1745		
20	QPSK	1	0	23.17	23.31	23.24		
20	QPSK	1	49	22.99	22.94	23.19	23.50	0
20	QPSK	1	99	22.67	22.89	23.07		
20	QPSK	50	0	22.03	22.15	22.06		
20	QPSK	50	24	21.90	21.92	21.93	22.50	0.4
20	QPSK	50	49	21.83	21.92	21.93	22.50	0-1
20	QPSK	100	0	21.90	22.00	21.95		
20	16QAM	1	0	22.45	22.48	22.44		
20	16QAM	1	49	22.22	22.16	22.40	22.50	0-1
20	16QAM	1	99	21.89	22.10	22.08		
20	16QAM	50	0	20.91	20.83	21.11		
20	16QAM	50	24	20.76	20.64	20.98		
20	16QAM	50	49	20.88	20.68	20.87	21.50	0-2
20	16QAM	100	0	20.93	20.74	20.98		
	Cha			20025	20175	20325	Tune up	
							Limit	MPR
	Frequenc	cy (MHz)		1717.5	1732.5	1747.5	(dBm)	(dB)
15	QPSK	1	0	<b>23.38</b>	23.22	23.17		
15	QPSK	1	37	22.96	22.63	22.80	23.50	0
15	QPSK	1	74	22.74	23.03	22.88		
15	QPSK	36	0	22.08	21.91	22.04		
15	QPSK	36	18	22.01	21.93	21.97		
15	QPSK	36	37	21.94	21.79	21.90	22.50	0-1
15	QPSK	75	0	22.02	21.85	21.97		
15	16QAM	1	0	22.47	22.41	22.47		
15	16QAM	1	37	22.35	22.08	22.25	22.50	0-1
15	16QAM	1	74	22.15	22.34	22.26	22.00	0 1
15	16QAM	36	0	20.99	20.85	20.96		
15	16QAM	36	18	20.94	20.69	20.94		
15	16QAM	36	37	20.83	20.73	20.83	21.50	0-2
15	16QAM	75	0	20.85	20.73	20.83		
15			U				Tung up	
	Cha	nnei		20000	20175	20350	Tune up Limit	MPR
	Frequenc	cy (MHz)		1715	1732.5	1750	(dBm)	(dB)
10	QPSK	1	0	22.99	22.95	22.85		
10	QPSK	1	24	23.04	23.11	22.91	23.50	0
10	QPSK	1	49	22.85	23.05	22.74		
10	QPSK	25	0	22.07	21.84	21.96		
10	QPSK	25	12	22.03	21.87	21.93		
10	QPSK	25	24	22.03	21.84	21.91	22.50	0-1
10	QPSK	50	0	21.99	21.90	21.93		
10	16QAM	1	0	22.47	22.24	22.22		
10	16QAM	1	24	22.31	22.09	22.19	22.50	0-1
10	16QAM	1	49	22.31	22.16	22.19	22.50	0-1
10	16QAM	25	0	21.02	20.92	21.10		
10	16QAM	25	12	20.99	20.92	20.90		
10		25 25					21.50	0-2
	16QAM		24	20.92	20.88	20.86		
10	16QAM	50	0	20.94	20.88	20.74		

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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	23.03	22.96	(dBIII)	
5	QPSK	1	12	23.13	22.86	23.02	23.50	0
5	QPSK	1	24	22.72	22.78	22.68		-
5	QPSK	12	0	22.00	21.85	21.89		
5	QPSK	12	6	22.01	21.98	21.93		
5	QPSK	12	11	22.00	21.68	21.96	22.50	0-1
5	QPSK	25	0	21.98	21.83	21.92		
5	16QAM	1	0	22.36	22.20	22.17		
5	16QAM	1	12	22.32	22.03	22.23	22.50	0-1
5	16QAM	1	24	22.29	22.01	22.03		
5	16QAM	12	0	20.84	20.71	20.83		
5	16QAM	12	6	20.82	20.81	20.81	04.50	
5	16QAM	12	11	20.86	20.61	20.67	21.50	0-2
5	16QAM	25	0	20.93	20.78	20.84		
	Cha			19965	20175	20385	Tune up	MPR
	Frequen	cy (MHz)		1711.5	1732.5	1753.5	Limit (dBm)	(dB)
3	QPSK	1	0	23.23	23.03	22.66		
3	QPSK	1	7	23.18	22.96	22.88	23.50	0
3	QPSK	1	14	22.91	22.89	23.07		
3	QPSK	8	0	22.11	21.95	21.94		
3	QPSK	8	4	22.17	21.94	21.91	00.50	0-1
3	QPSK	8	7	21.92	21.83	21.98	22.50	
3	QPSK	15	0	22.10	21.95	21.90		
3	16QAM	1	0	22.38	22.20	22.36		
3	16QAM	1	7	22.32	22.06	22.20	22.50	0-1
3	16QAM	1	14	22.49	22.14	22.45		
3	16QAM	8	0	20.90	20.94	21.01		
3	16QAM	8	4	20.93	21.01	20.79	24 50	0.2
3	16QAM	8	7	20.87	20.59	20.83	21.50	0-2
3	16QAM	15	0	20.81	20.91	20.72		
	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	23.07	22.96	22.84		
1.4	QPSK	1	2	23.00	22.93	23.00		
1.4	QPSK	1	5	23.05	22.57	22.85	23.50	0
1.4	QPSK	3	0	23.15	22.88	22.95	20.00	J
1.4	QPSK	3	1	23.20	22.90	22.97		
1.4	QPSK	3	2	23.13	22.91	22.97		
1.4	QPSK	6	0	22.05	21.86	21.89	22.50	0-1
1.4	16QAM	1	0	22.42	22.24	22.11		
1.4	16QAM	1	2	22.39	22.47	22.28		
1.4	16QAM	1	5	22.31	21.90	22.19	22.50	0-1
1.4	16QAM	3	0	22.29	22.10	22.03	22.00	0.1
1.4	16QAM	3	1	22.26	22.17	22.06		
1.4	16QAM	3	2	22.19	22.17	22.05		
1.4	16QAM	6	0	20.58	20.77	20.82	21.50	0-2

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<LTE Band 2>

<lte ban<="" th=""><th><u>d 2&gt;</u></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></lte>	<u>d 2&gt;</u>							
BW		RB	RB	Power	Power	Power		
[MHz]	Modulation	Size	Offset	Low	Middle	High	Tune up	MPR
[1411 12]			Oliset	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Limit	(dB)
	Cha			18700	18900	19100	(dBm)	(ub)
	Frequen	cy (MHz)		1860	1880	1900		
20	QPSK	1	0	22.86	22.66	22.91		
20	QPSK	1	49	22.59	22.64	22.68	23.50	0
20	QPSK	1	99	22.59	22.62	22.89		
20	QPSK	50	0	21.70	21.73	21.84		
20	QPSK	50	24	21.54	21.63	21.66	22.50	0.4
20	QPSK	50	49	21.46	21.60	21.71	22.50	0-1
20	QPSK	100	0	21.53	21.67	21.69		
20	16QAM	1	0	22.23	21.99	22.38		
20	16QAM	1	49	21.76	21.91	21.89	22.50	0-1
20	16QAM	1	99	21.99	21.92	22.10		-
20	16QAM	50	0	20.52	20.51	20.72		
20	16QAM	50	24	20.35	20.49	20.47		
20	16QAM	50	49	20.50	20.68	20.46	21.50	0-2
20	16QAM	100	0	20.45	20.73	20.40		
20	Cha		U	18675	18900	19125	Tune up	
							Limit	MPR
	Frequen	cy (MHz)		1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	0	22.81	22.81	22.81		
15	QPSK	1	37	22.39	22.53	22.60	23.50	0
15	QPSK	1	74	22.60	22.74	22.88		
15	QPSK	36	0	21.69	21.71	21.79		
15	QPSK	36	18	21.45	21.67	21.69		
15	QPSK	36	37	21.58	21.79	21.68	22.50	0-1
15	QPSK	75	0	21.65	21.75	21.74		
15	16QAM	1	0	22.24	22.05	22.10		
15	16QAM	1	37	21.75	21.95	21.91	22.50	0-1
15	16QAM	1	74	21.76	22.28	22.24	22.00	0 1
15	16QAM	36	0	20.68	20.74	20.69		
15	16QAM	36	18	20.57	20.65	20.73		
15	16QAM	36	37	20.57	20.03	20.73	21.50	0-2
15	16QAM	75	0	20.53	20.74	20.72		
15			U				Tupo up	
	Cha			18650	18900	19150	Tune up Limit	MPR
	Frequen	cy (MHz)		1855	1880	1905	(dBm)	(dB)
10	QPSK	1	0	22.94	22.67	22.74		
10	QPSK	1	24	22.53	22.86	22.74	23.50	0
10	QPSK	1	49	22.57	22.63	23.02		
10	QPSK	25	0	21.81	21.72	21.71		
10	QPSK	25	12	21.66	21.81	21.79		
10	QPSK	25	24	21.56	21.76	21.76	22.50	0-1
10	QPSK	50	0	21.65	21.74	21.72		
10	16QAM	1	0	22.15	21.99	22.02		
10	16QAM	1	24	21.85	21.95	21.99	22.50	0-1
10	16QAM	1	49	21.87	22.00	22.48	22.00	0 1
10	16QAM	25	0	20.74	20.73	20.85		
10	16QAM	25	12	20.74	20.73	20.83		
10	16QAM	25	24	20.56	20.09	20.83	21.50	0-2
			0					
10	16QAM	50	U	20.59	20.60	20.57		

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	Cha	nnel		18625	18900	19175	Tune up	MPR
	Frequen	cy (MHz)		1852.5	1880	1907.5	Limit (dBm)	(dB)
5	QPSK	1	0	22.83	22.38	22.68	(aBiii)	
5	QPSK	1	12	22.78	22.66	22.82	23.50	0
5	QPSK	1	24	22.74	22.71	22.62		-
5	QPSK	12	0	21.76	21.71	21.75		
5	QPSK	12	6	21.70	21.79	21.85		
5	QPSK	12	11	21.63	21.71	21.80	22.50	0-1
5	QPSK	25	0	21.67	21.71	21.84	-	
5	16QAM	1	0	22.00	21.83	22.03		
5	16QAM	1	12	22.03	22.07	22.07	22.50	0-1
5	16QAM	1	24	21.86	21.99	22.10		
5	16QAM	12	0	20.71	20.63	20.79		
5	16QAM	12	6	20.64	20.69	20.76	04.50	0.0
5	16QAM	12	11	20.56	20.66	20.74	21.50	0-2
5	16QAM	25	0	20.62	20.64	20.88		
	Cha	nnel		18615	18900	19185	Tune up	MPR
	Frequen	cy (MHz)		1851.5	1880	1908.5	Limit (dBm)	(dB)
3	QPSK	1	0	22.75	22.67	22.75		
3	QPSK	1	7	22.74	22.81	22.85	23.50	0
3	QPSK	1	14	22.85	22.93	22.69		
3	QPSK	8	0	21.72	21.80	21.81		
3	QPSK	8	4	21.77	21.79	21.81	00.50	
3	QPSK	8	7	21.81	21.75	21.83	22.50	0-1
3	QPSK	15	0	21.72	21.69	21.81		
3	16QAM	1	0	22.07	22.15	22.13		
3	16QAM	1	7	22.00	21.65	21.58	22.50	0-1
3	16QAM	1	14	22.08	22.16	22.19		
3	16QAM	8	0	20.64	20.93	20.77		
3	16QAM	8	4	20.61	20.77	20.79	04.50	0.0
3	16QAM	8	7	20.98	20.69	20.90	21.50	0-2
3	16QAM	15	0	20.72	20.71	20.75		
	Cha	nnel		18607	18900	19193	Tune up	MPR
	Frequen	cy (MHz)		1850.7	1880	1909.3	Limit (dBm)	(dB)
1.4	QPSK	1	0	22.53	22.56	22.68		
1.4	QPSK	1	2	22.63	22.68	22.80		
1.4	QPSK	1	5	22.59	22.55	22.78	22.50	0
1.4	QPSK	3	0	22.79	22.74	22.72	23.50	0
1.4	QPSK	3	1	22.89	22.78	22.77		
1.4	QPSK	3	2	22.79	22.76	22.77		
1.4	QPSK	6	0	21.64	21.67	21.70	22.50	0-1
1.4	16QAM	1	0	22.08	21.90	22.16		
1.4	16QAM	1	2	22.00	21.98	22.05		
1.4	16QAM	1	5	22.01	22.14	21.96	22.50	0.1
1.4	16QAM	3	0	22.00	21.81	22.06	22.50	0-1
1.4	16QAM	3	1	21.93	21.85	21.96		
1.4	16QAM	3	2	21.95	21.87	21.96		
1.4	16QAM	6	0	20.56	20.66	20.73	21.50	0-2

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<LTE Band 7>

CLIL Dai	<u>u 1 /                                  </u>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune up Limit	MPR
	Cha	nnel		20850	21100	21350	(dBm)	(dB)
	Frequen	cy (MHz)		2510	2535	2560	, ,	
20	QPSK	1	0	<mark>20.50</mark>	20.35	20.18		
20	QPSK	1	49	20.14	19.81	19.93	20.50	0
20	QPSK	1	99	19.94	19.96	19.87		
20	QPSK	50	0	19.13	18.86	18.94		
20	QPSK	50	24	19.12	18.74	18.82	10.50	0-1
20	QPSK	50	49	19.07	18.76	18.90	19.50	0-1
20	QPSK	100	0	19.10	18.92	18.86		
20	16QAM	1	0	19.42	19.45	19.43		
20	16QAM	1	49	19.21	18.90	19.17	19.50	0-1
20	16QAM	1	99	19.25	19.16	19.21		
20	16QAM	50	0	18.03	17.84	17.93		
20	16QAM	50	24	17.95	17.71	17.76	18.50	0-2
20	16QAM	50	49	17.96	17.74	17.82	16.50	0-2
20	16QAM	100	0	18.23	17.95	17.80		
	Cha	nnel		20825	21100	21375	Tune up	MPR
	Frequen	cy (MHz)		2507.5	2535	2562.5	Limit (dBm)	(dB)
15	QPSK	1	0	20.33	20.19	20.22		
15	QPSK	1	37	20.03	19.74	19.83	20.50	0
15	QPSK	1	74	20.17	20.02	20.18		
15	QPSK	36	0	19.19	18.88	18.98		
15	QPSK	36	18	19.17	18.84	18.85	19.50	0-1
15	QPSK	36	37	19.15	18.89	19.03	19.50	0-1
15	QPSK	75	0	19.20	18.86	18.98		
15	16QAM	1	0	19.50	19.41	19.46		
15	16QAM	1	37	19.39	18.74	19.39	19.50	0-1
15	16QAM	1	74	19.36	19.48	19.05		
15	16QAM	36	0	18.10	17.92	17.92		
15	16QAM	36	18	18.15	17.73	17.92	18.50	0-2
15	16QAM	36	37	18.26	17.84	17.99	10.50	0-2
15	16QAM	75	0	18.18	17.92	18.03		

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	Cha	nnel		20800	21100	21400	Tune up	MPR
	Frequen	cy (MHz)		2505	2535	2565	Limit (dBm)	(dB)
10	QPSK	1	0	20.26	19.96	20.17		
10	QPSK	1	24	20.17	19.85	20.02	20.50	0
10	QPSK	1	49	20.25	20.24	20.28		
10	QPSK	25	0	19.19	18.86	19.01		
10	QPSK	25	12	19.11	18.82	19.04	10.50	0-1
10	QPSK	25	24	19.17	18.89	19.04	19.50	0-1
10	QPSK	50	0	19.16	18.85	18.94		
10	16QAM	1	0	19.45	19.12	19.05		
10	16QAM	1	24	19.32	18.91	19.44	19.50	0-1
10	16QAM	1	49	19.33	19.25	18.86		
10	16QAM	25	0	18.35	17.87	18.15		
10	16QAM	25	12	18.16	17.78	18.11	18.50	0-2
10	16QAM	25	24	18.21	17.68	18.07	16.50	0-2
10	16QAM	50	0	18.24	17.90	18.05		
	Cha	nnel		20775	21100	21425	Tune up	MPR
	Frequen	cy (MHz)		2502.5	2535	2567.5	Limit (dBm)	(dB)
5	QPSK	1	0	20.25	19.77	20.18		
5	QPSK	1	12	20.21	19.85	19.91	20.50	0
5	QPSK	1	24	20.12	19.72	20.19		
5	QPSK	12	0	19.06	18.79	19.00		
5	QPSK	12	6	19.16	18.76	18.97	19.50	0-1
5	QPSK	12	11	19.04	18.78	18.98	19.50	0-1
5	QPSK	25	0	19.16	18.86	19.07		
5	16QAM	1	0	19.40	18.88	19.39		
5	16QAM	1	12	18.62	19.37	19.25	19.50	0-1
5	16QAM	1	24	19.47	19.00	19.44		
5	16QAM	12	0	17.96	17.75	18.03		
5	16QAM	12	6	18.04	17.72	17.97	10.50	0.2
5	16QAM	12	11	18.14	17.77	18.01	18.50	0-2
5	16QAM	25	0	18.06	17.77	17.94		

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#### <WLAN Conducted Power>

#### **General Note:**

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

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- 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 and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- 3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, 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 802.11a/g/n/ac 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 (XI'AN) INC.

### <2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		14.59	15.0	
	802.11b	CH 6	2437	1Mbps	14.30	15.0	98.19
2.4GHz		CH 11	2462		<mark>15.19</mark>	15.5	
WLAN		CH 1	2412		12.17	13.0	87.18
	802.11g	CH 6	2437	6Mbps	12.08	13.0	
		CH 11	2462		12.89	13.0	
		CH 1	2412		9.43	10.5	
	802.11n-HT20	CH 6	2437	MCS0	9.31	10.5	86.41
		CH 11	2462		9.99	10.5	

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### <5GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 36	5180		<mark>15.77</mark>	16.0	
	000.445	CH 40	5200	CMh n a	15.58	16.0	87.82
	802.11a	CH 44	5220	6Mbps	15.51	16.0	87.82
		CH 48	5240		15.62	16.0	
		CH 36	5180		12.61	13.0	
	802.11n-HT20	CH 40	5200	MCS0	12.30	13.0	86.41
5.2GHz		CH 44	5220		12.36	13.0	
WLAN		CH 48	5240		12.49	13.0	
	000 44 = LIT40	CH 38	5190		11.88	12.0	75.00
	802.11n-HT40	CH 46	5230	MCS0	11.77	12.0	75.83
		CH 36	5180		9.88	10.0	
	000 44 \// IT00	CH 40	5200	MOOO	9.56	10.0	
	802.11ac-VHT20	CH 44	5220	MCS0	9.42	10.0	83.14
		CH 48	5240		9.61	10.0	
		CH 38	5190	11000	9.54	10.0	71.06
	802.11ac-VHT40	CH 46	5230	MCS0	9.31	10.0	71.26
	802.11ac-VHT80	CH 42	5210	MCS0	9.82	10.0	55.11

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 52	5260		<mark>15.70</mark>	16.0	
	802.11a	CH 56	5280	GMbpa	15.46	16.0	87.82
	002.11a	CH 60	5300	6Mbps	15.39	16.0	01.02
		CH 64	5320		15.45	16.0	
		CH 52	5260		12.65	13.0	
	802.11n-HT20	CH 56	5280	MCS0	12.39	13.0	86.41
5.3GHz		CH 60	5300		12.27	13.0	
WLAN		CH 64	5320		12.35	13.0	
	802.11n-HT40	CH 54	5270	14000	11.83	12.0	75.00
	802.11n-H140	CH 62	5310	MCS0	11.65	12.0	75.83
		CH 52	5260		9.72	10.0	
	802.11ac-VHT20	CH 56	5280	MCCO	9.53	10.0	
	802.11ac-VH120	CH 60	5300	MCS0	9.16	10.0	83.14
		CH 64	5320		9.25	10.0	
	000 4400 \/\	CH 54	5270	MCCO	9.50	10.0	74.00
	802.11ac-VHT40	CH 62	5310	MCS0	9.11	10.0	71.26
	802.11ac-VHT80	CH 58	5290	MCS0	9.75	10.0	55.11

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 100	5500		<mark>15.80</mark>	16.0	
	802.11a	CH 116	5580	6Mbps	15.43	16.0	87.82
	002.11a	CH 132	5660	Squivio	15.16	16.0	01.02
		CH 140	5700		15.74	16.0	
		CH 100	5500		12.9	13.5	
	802.11n-HT20	CH 116	5580	MCS0	12.52	13.5	86.41
		CH 132	5660		12.32	13.5	
5.5GHz		CH 140	5700		12.71	13.5	
WLAN		CH 102	5510	MCS0	11.22	11.5	75.83
	802.11n-HT40	CH 110	5550		11.08	11.5	
		CH 134	5670		10.76	11.5	
		CH 100	5500		10.06	10.5	
	802.11ac-VHT20	CH 116	5580	MCCO	9.64	10.5	00.44
	802.11ac-VH120	CH 132	5660	MCS0	9.51	10.5	83.14
	802.11ac-VHT40	CH 140	5700		9.95	10.5	
		CH 102	5510		9.75	10.0	
		CH 110	5550	MCS0	9.49	10.0	71.26
		CH 134	5670		9.11	10.0	
	802.11ac-VHT80	CH 106	5530	MCS0	10.20	10.5	55.11

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 149	5745		15.49	16.5	
	802.11a	CH 157	5785	MCS0	<mark>15.96</mark>	16.5	87.82
		CH 165	5825		15.82	16.5	
		CH 149	5745		11.57	12.5	
	802.11n-HT20	CH 157	5785	MCS0	12.25	12.5	86.41
5.8GHz WLAN		CH 165	5825		12.10	12.5	
	802.11n-HT40	CH 151	5755	MCS0	10.96	12.0	75.83
	802.11II-H140	CH 159	5795	IVICSU	11.44	12.0	
		CH 149	5745		9.76	11.0	
	802.11ac-VHT20	CH 157	5785	MCS0	10.47	11.0	83.14
	802.11ac-VHT40	CH 165	5825		10.21	11.0	
		CH 151	5755	14000	9.45	10.5	74.00
		CH 159	5795	MCS0	10.03	10.5	71.26
	802.11ac-VHT80	CH 155	5775	MCS0	10.23	10.5	55.11

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### <2.4GHz Bluetooth>

#### **General Note:**

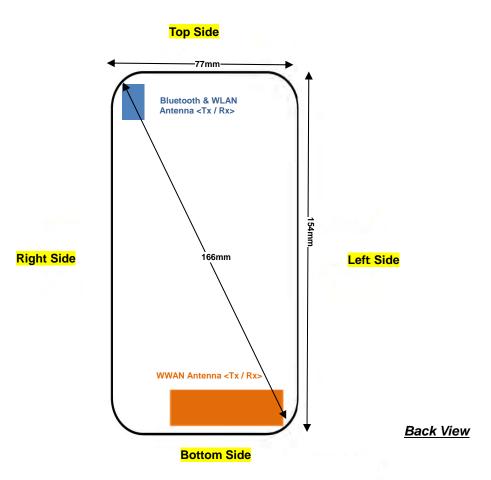
- 1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- 2. The duty factor is selected theoretical 83.3% perform Bluetooth SAR testing.

Mode	Channel	Frequency	Average power (dBm)					
Mode	Charine	(MHz)	1Mbps	2Mbps	3Mbps			
	CH 00	2402	8.53	6.15	6.28			
v3.0 with EDR	CH 39	2441	<mark>11.07</mark>	8.99	8.98			
	CH 78	2480	8.30	5.99	5.91			

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Mode	Channel	Frequency (MHz)	Average power (dBm)  GFSK
v4.0 with LE	CH 00	2402	-0.73
	CH 19	2440	<mark>0.55</mark>
	CH 39	2480	-1.53

### 13. Antenna Location



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Distance of the Antenna to the EUT surface/edge									
Antennas Front Back Top Side Bottom Side Right Side Left Side									
WWAN Main	≤ 25mm	≤ 25mm	138mm	≤ 25mm	35mm	≤ 25mm			
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	141mm	≤ 25mm	68mm			

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

#### **General Note:**

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

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### 14. SAR Test Results

#### **General Note:**

- 1. Per KDB 447498 D01v05r02, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
- d. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
- 2. Per KDB 447498 D01v05r02, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - · ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- Pre KDB648474 D04v01r02, when the reported SAR for a 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 headset attached to the handset.
- 4. Per KDB648474 D04v01r02, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
- 5. 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.
- 6. 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.
- 7. 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".
- 8. Per KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.
- 9. 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.
- 10. Per KDB 941225 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. Per KDB 248227 D01v02r01, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

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15. Per KDB 248227 D01v02r01, for U-NII-1 Head and Body-worn SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.

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- 16. 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.
- 17. 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.
- 18. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



### 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 (GMSK 4 Tx slots)	Right Cheek	128	824.2	31.93	32	1.016	0.02	0.712	0.724
	GSM850	GPRS (GMSK 4 Tx slots)	Right Tilted	128	824.2	31.93	32	1.016	-0.06	0.447	0.454
	GSM850	GPRS (GMSK 4 Tx slots)	Left Cheek	128	824.2	31.93	32	1.016	0.18	0.682	0.693
	GSM850	GPRS (GMSK 4 Tx slots)	Left Tilted	128	824.2	31.93	32	1.016	-0.04	0.416	0.423
#01	GSM850	GPRS (GMSK 4 Tx slots)	Right Cheek	189	836.4	31.36	32	1.159	0.06	0.725	<mark>0.840</mark>
	GSM850	GPRS (GMSK 4 Tx slots)	Right Cheek	251	848.8	31.4	32	1.148	0.15	0.648	0.744
	GSM1900	GPRS (GMSK 4 Tx slots)	Right Cheek	661	1880	29.03	29.5	1.114	-0.14	0.194	0.216
	GSM1900	GPRS (GMSK 4 Tx slots)	Right Tilted	661	1880	29.03	29.5	1.114	-0.13	0.128	0.143
	GSM1900	GPRS (GMSK 4 Tx slots)	Left Cheek	661	1880	29.03	29.5	1.114	-0.18	0.284	0.316
	GSM1900	GPRS (GMSK 4 Tx slots)	Left Tilted	661	1880	29.03	29.5	1.114	-0.16	0.170	0.189
	GSM1900	GPRS (GMSK 4 Tx slots)	Left Cheek	512	1850.2	28.74	29.5	1.191	0.08	0.262	0.312
#02	GSM1900	GPRS (GMSK 4 Tx slots)	Left Cheek	810	1909.8	28.77	29.5	1.183	0.03	0.311	0.368

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### <WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2Kbps	Right Cheek	4182	836.4	22.59	23	1.099	0.06	0.230	0.253
	WCDMA Band V	RMC 12.2Kbps	Right Tilted	4182	836.4	22.59	23	1.099	-0.1	0.149	0.164
#03	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4182	836.4	22.59	23	1.099	-0.02	0.241	<mark>0.265</mark>
	WCDMA Band V	RMC 12.2Kbps	Left Tilted	4182	836.4	22.59	23	1.099	-0.07	0.156	0.171
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4132	826.4	21.38	23	1.452	0.02	0.164	0.238
	WCDMA Band V	RMC 12.2Kbps	Left Cheek	4233	846.6	22.52	23	1.117	0.08	0.232	0.259
	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	1312	1712.4	21.88	22.5	1.153	-0.06	0.147	0.170
	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	1312	1712.4	21.88	22.5	1.153	-0.18	0.097	0.112
#04	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1312	1712.4	21.88	22.5	1.153	0.02	0.184	0.212
	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	1312	1712.4	21.88	22.5	1.153	-0.08	0.116	0.134
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1413	1732.6	21.84	22.5	1.164	-0.01	0.178	0.207
	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	1513	1752.6	21.82	22.5	1.169	0.07	0.179	0.209
	WCDMA Band II	RMC 12.2Kbps	Right Cheek	9538	1907.6	22.2	22.5	1.072	-0.05	0.189	0.203
	WCDMA Band II	RMC 12.2Kbps	Right Tilted	9538	1907.6	22.2	22.5	1.072	-0.19	0.099	0.106
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9538	1907.6	22.2	22.5	1.072	0.17	0.232	0.249
	WCDMA Band II	RMC 12.2Kbps	Left Tilted	9538	1907.6	22.2	22.5	1.072	-0.07	0.127	0.136
	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9262	1852.4	21.84	22.5	1.164	0.11	0.208	0.242
#05	WCDMA Band II	RMC 12.2Kbps	Left Cheek	9400	1880	21.89	22.5	1.151	0.01	0.221	<mark>0.254</mark>

SPORTON INTERNATIONAL (XI'AN) INC.



### <LTE SAR>

	Band LTE Band 17	BW (MHz)	RB Size	RB	Madulation	Test		Freq.	Average	Tune-Up	Tune-up	Power	Measured	Reported
	LTE Band 17		0.20	offset	Modulation	Position	Ch.	(MHz)	Power (dBm)	Limit (dBm)	Scaling Factor	Drift (dB)	1g SAR (W/kg)	1g SAR (W/kg)
		10M	1	49	QPSK	Right Cheek	23790	710	23.28	23.5	1.052	0.14	0.092	0.097
	LTE Band 17	10M	1	49	QPSK	Right Tilted	23790	710	23.28	23.5	1.052	0.06	0.065	0.068
	LTE Band 17	10M	1	49	QPSK	Left Cheek	23790	710	23.28	23.5	1.052	0.06	0.094	0.099
	LTE Band 17	10M	1	49	QPSK	Left Tilted	23790	710	23.28	23.5	1.052	-0.17	0.070	0.074
	LTE Band 17	10M	1	49	QPSK	Left Cheek	23780	709	23.19	23.5	1.074	0.06	0.092	0.099
#06	LTE Band 17	10M	1	49	QPSK	Left Cheek	23800	711	23.03	23.5	1.114	0.09	0.095	<mark>0.106</mark>
	LTE Band 17	10M	25	0	QPSK	Right Cheek	23790	710	22.08	22.5	1.102	0.03	0.085	0.094
	LTE Band 17	10M	25	0	QPSK	Right Tilted	23790	710	22.08	22.5	1.102	0.16	0.061	0.067
	LTE Band 17	10M	25	0	QPSK	Left Cheek	23790	710	22.08	22.5	1.102	0.03	0.093	0.102
	LTE Band 17	10M	25	0	QPSK	Left Tilted	23790	710	22.08	22.5	1.102	-0.01	0.067	0.074
#07	LTE Band 4	20M	1	0	QPSK	Right Cheek	20175	1732.5	23.31	23.5	1.045	0.03	0.228	<mark>0.238</mark>
	LTE Band 4	20M	1	0	QPSK	Right Tilted	20175	1732.5	23.31	23.5	1.045	-0.13	0.131	0.137
	LTE Band 4	20M	1	0	QPSK	Left Cheek	20175	1732.5	23.31	23.5	1.045	0.06	0.217	0.227
	LTE Band 4	20M	1	0	QPSK	Left Tilted	20175	1732.5	23.31	23.5	1.045	-0.12	0.109	0.114
	LTE Band 4	20M	1	0	QPSK	Right Cheek	20050	1720	23.17	23.5	1.079	-0.09	0.186	0.201
	LTE Band 4	20M	1	0	QPSK	Right Cheek	20300	1745	23.24	23.5	1.062	0.09	0.173	0.184
	LTE Band 4	20M	50	0	QPSK	Right Cheek	20175	1732.5	22.15	22.5	1.084	-0.04	0.169	0.183
	LTE Band 4	20M	50	0	QPSK	Right Tilted	20175	1732.5	22.15	22.5	1.084	-0.04	0.099	0.107
	LTE Band 4	20M	50	0	QPSK	Left Cheek	20175	1732.5	22.15	22.5	1.084	0.19	0.172	0.186
	LTE Band 4	20M	50	0	QPSK	Left Tilted	20175	1732.5	22.15	22.5	1.084	-0.07	0.082	0.089
	LTE Band 2	20M	1	0	QPSK	Right Cheek	19100	1900	22.91	23.5	1.146	0.05	0.179	0.205
	LTE Band 2	20M	1	0	QPSK	Right Tilted	19100	1900	22.91	23.5	1.146	-0.16	0.075	0.086
	LTE Band 2	20M	1	0	QPSK	Left Cheek	19100	1900	22.91	23.5	1.146	0.11	0.246	0.282
	LTE Band 2	20M	1	0	QPSK	Left Tilted	19100	1900	22.91	23.5	1.146	-0.07	0.102	0.117
#08	LTE Band 2	20M	1	0	QPSK	Left Cheek	18700	1860	22.86	23.5	1.159	0.06	0.247	0.286
	LTE Band 2	20M	1	0	QPSK	Left Cheek	18900	1880	22.66	23.5	1.213	0.09	0.231	0.280
	LTE Band 2	20M	50	0	QPSK	Right Cheek	19100	1900	21.84	22.5	1.164	0.17	0.139	0.162
	LTE Band 2	20M	50	0	QPSK	Right Tilted	19100	1900	21.84	22.5	1.164	-0.02	0.063	0.073
	LTE Band 2	20M	50	0	QPSK	Left Cheek	19100	1900	21.84	22.5	1.164	0.17	0.190	0.221
	LTE Band 2	20M	50	0	QPSK	Left Tilted	19100	1900	21.84	22.5	1.164	-0.03	0.089	0.104
	LTE Band 7	20M	1	0	QPSK	Right Cheek	20850	2510	20.5	20.5	1.000	0.01	0.027	0.027
	LTE Band 7	20M	1	0	QPSK	Right Tilted	20850	2510	20.5	20.5	1.000	-0.05	0.013	0.013
	LTE Band 7	20M	1	0	QPSK	Left Cheek	20850	2510	20.5	20.5	1.000	0.09	0.034	0.034
	LTE Band 7	20M	1	0	QPSK	Left Tilted	20850	2510	20.5	20.5	1.000	0.04	0.00861	0.009
#09	LTE Band 7	20M	1	0	QPSK	Left Cheek	21100	2535	20.35	20.5	1.035	0.03	0.046	0.048
	LTE Band 7	20M	1	0	QPSK	Left Cheek	21350	2560	20.18	20.5	1.076	0.03	0.036	0.039
	LTE Band 7	20M	50	0	QPSK	Right Cheek	20850	2510	19.13	19.5	1.089	0.09	0.014	0.015
	LTE Band 7	20M	50	0	QPSK	Right Tilted	20850	2510	19.13	19.5	1.089	0.05	0.00736	0.008
	LTE Band 7	20M	50	0	QPSK	Left Cheek	20850	2510	19.13	19.5	1.089	0.01	0.025	0.027
	LTE Band 7	20M	50	0	QPSK	Left Tilted	20850	2510	19.13	19.5	1.089	0.06	0.00349	0.004

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### <WLAN2.4GHz 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	Area Scan Max. SAR (W/kg)	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	11	2462	15.19	15.5	1.074	98.19	1.018	0.243			<0.001
	WLAN 2.4GHz	802.11b 1Mbps	Right Tilted	11	2462	15.19	15.5	1.074	98.19	1.018	0.225			<0.001
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	11	2462	15.19	15.5	1.074	98.19	1.018	0.608	0.01	0.361	0.395
	WLAN 2.4GHz	802.11b 1Mbps	Left Tilted	11	2462	15.19	15.5	1.074	98.19	1.018	0.487			<0.001
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	1	2412	14.59	15	1.099	98.19	1.018		0.08	0.438	0.490
#10	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	6	2437	14.3	15	1.175	98.19	1.018		-0.07	0.484	<mark>0.579</mark>

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### <WLAN 5GHz SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Area Scan Max. SAR (W/kg)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 5.3GHz	802.11a 6Mbps	Right Cheek	52	5260	15.7	16	1.072	87.82	1.139	0.1		0.061	0.074
	WLAN 5.3GHz	802.11a 6Mbps	Right Tilted	52	5260	15.7	16	1.072	87.82	1.139	0.12		0.054	0.066
	WLAN 5.3GHz	802.11a 6Mbps	Left Cheek	52	5260	15.7	16	1.072	87.82	1.139	0.15		0.289	0.353
	WLAN 5.3GHz	802.11a 6Mbps	Left Tilted	52	5260	15.7	16	1.072	87.82	1.139	0.1		0.156	0.190
#11	WLAN 5.3GHz	802.11a 6Mbps	Left Cheek	56	5280	15.46	16	1.132	87.82	1.139	0.16		0.370	<mark>0.477</mark>
	WLAN 5.3GHz	802.11a 6Mbps	Left Cheek	64	5320	15.45	16	1.135	87.82	1.139	0.12		0.292	0.377
	WLAN 5.5GHz	802.11a 6Mbps	Right Cheek	100	5500	15.8	16	1.047	87.82	1.139		0.369		
	WLAN 5.5GHz	802.11a 6Mbps	Right Tilted	100	5500	15.8	16	1.047	87.82	1.139		0.240		
#12	WLAN 5.5GHz	802.11a 6Mbps	Left Cheek	100	5500	15.8	16	1.047	87.82	1.139	0.07	0.689	0.240	<mark>0.286</mark>
	WLAN 5.5GHz	802.11a 6Mbps	Left Tilted	100	5500	15.8	16	1.047	87.82	1.139		0.423		
	WLAN 5.5GHz	802.11a 6Mbps	Left Cheek	132	5660	15.16	16	1.213	87.82	1.139	0.12		0.199	0.275
	WLAN 5.5GHz	802.11a 6Mbps	Left Cheek	140	5700	15.74	16	1.062	87.82	1.139	0.014		0.109	0.132
	WLAN 5.8GHz	802.11a 6Mbps	Right Cheek	157	5785	15.96	16.5	1.132	87.82	1.139	0.15		0.065	0.084
	WLAN 5.8GHz	802.11a 6Mbps	Right Tilted	157	5785	15.96	16.5	1.132	87.82	1.139	0.05		0.057	0.074
	WLAN 5.8GHz	802.11a 6Mbps	Left Cheek	157	5785	15.96	16.5	1.132	87.82	1.139	0.04		0.090	0.116
	WLAN 5.8GHz	802.11a 6Mbps	Left Tilted	157	5785	15.96	16.5	1.132	87.82	1.139	0.07		0.062	0.080
#13	WLAN 5.8GHz	802.11a 6Mbps	Left Cheek	149	5745	15.49	16.5	1.262	87.82	1.139	0.02		0.110	<mark>0.158</mark>
	WLAN 5.8GHz	802.11a 6Mbps	Left Cheek	165	5825	15.82	16.5	1.169	87.82	1.139	0.07		0.108	0.144

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### <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	1Mbps	Right Cheek	39	2441	11.07	11.5	1.104	0.1	0.057	0.063
	Bluetooth	1Mbps	Right Tilted	39	2441	11.07	11.5	1.104	-0.03	0.051	0.056
#14	Bluetooth	1Mbps	Left Cheek	39	2441	11.07	11.5	1.104	-0.08	0.141	<mark>0.156</mark>
	Bluetooth	1Mbps	Left Tilted	39	2441	11.07	11.5	1.104	0.09	0.131	0.145
	Bluetooth	1Mbps	Left Cheek	0	2402	8.53	9	1.115	-0.029	0.093	0.104
	Bluetooth	1Mbps	Left Cheek	78	2480	8.30	9	1.175	0.067	0.060	0.071

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### 14.2 Hotspot SAR

	Distance	of the Antenna	to the EUT surf	ace/edge										
Antennas	Antennas Front Back Top Side Bottom Side Right Side Left Side													
WWAN Main	≤ 25mm	≤ 25mm	138mm	≤ 25mm	35mm	≤ 25mm								
BT&WLAN ≤ 25mm ≤ 25mm 141mm ≤ 25mm 68mm														

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

#### **General Note:**

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

### <GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	128	824.2	31.93	32	1.016	-0.04	0.867	0.881
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	128	824.2	31.93	32	1.016	-0.14	1.130	1.148
	GSM850	GPRS (GMSK 4 Tx slots)	Left side	1	128	824.2	31.93	32	1.016	-0.1	0.757	0.769
	GSM850	GPRS (GMSK 4 Tx slots)	Bottom side	1	128	824.2	31.93	32	1.016	-0.12	0.485	0.493
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	189	836.4	31.36	32	1.159	-0.03	0.826	0.957
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	251	848.8	31.4	32	1.148	-0.05	0.698	0.801
#15	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	189	836.4	31.36	32	1.159	-0.06	1.080	<mark>1.251</mark>
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	31.4	32	1.148	-0.06	0.956	1.098
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	661	1880	29.03	29.5	1.114	0.18	0.775	0.864
	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	661	1880	29.03	29.5	1.114	-0.03	0.580	0.646
	GSM1900	GPRS (GMSK 4 Tx slots)	Left side	1	661	1880	29.03	29.5	1.114	-0.06	0.412	0.459
	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	1	661	1880	29.03	29.5	1.114	-0.13	1.030	1.148
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	512	1850.2	28.74	29.5	1.191	0.03	0.665	0.792
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	810	1909.8	28.77	29.5	1.183	0.19	0.871	1.030
	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	1	512	1850.2	28.74	29.5	1.191	-0.08	0.865	1.030
#16	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	1	810	1909.8	28.77	29.5	1.183	-0.05	1.170	<mark>1.384</mark>

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### <WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	1	4182	836.4	22.59	23	1.099	-0.08	0.228	0.251
#17	WCDMA Band V	RMC12.2Kbps	Back	1	4182	836.4	22.59	23	1.099	0.12	0.422	<mark>0.464</mark>
	WCDMA Band V	RMC12.2Kbps	Left side	1	4182	836.4	22.59	23	1.099	-0.02	0.250	0.275
	WCDMA Band V	RMC12.2Kbps	Bottom side	1	4182	836.4	22.59	23	1.099	-0.18	0.162	0.178
	WCDMA Band V	RMC12.2Kbps	Back	1	4132	826.4	21.38	23	1.452	0.17	0.272	0.395
	WCDMA Band V	RMC12.2Kbps	Back	1	4233	846.6	22.52	23	1.117	-0.01	0.379	0.423
	WCDMA Band IV	RMC12.2Kbps	Front	1	1312	1712.4	21.88	22.5	1.153	0.02	0.598	0.690
	WCDMA Band IV	RMC12.2Kbps	Back	1	1312	1712.4	21.88	22.5	1.153	0.07	0.414	0.478
	WCDMA Band IV	RMC12.2Kbps	Left side	1	1312	1712.4	21.88	22.5	1.153	-0.02	0.202	0.233
#18	WCDMA Band IV	RMC12.2Kbps	Bottom side	1	1312	1712.4	21.88	22.5	1.153	-0.07	0.634	0.731
	WCDMA Band IV	RMC12.2Kbps	Front	1	1413	1732.6	21.84	22.5	1.164	0.03	0.490	0.570
	WCDMA Band IV	RMC12.2Kbps	Front	1	1513	1752.6	21.82	22.5	1.169	0.09	0.501	0.586
	WCDMA Band IV	RMC12.2Kbps	Bottom side	1	1413	1732.6	21.84	22.5	1.164	0.03	0.617	0.718
	WCDMA Band IV	RMC12.2Kbps	Bottom side	1	1513	1752.6	21.82	22.5	1.169	-0.01	0.616	0.720
	WCDMA Band II	RMC12.2Kbps	Front	1	9538	1907.6	22.2	22.5	1.072	0.13	0.757	0.811
	WCDMA Band II	RMC12.2Kbps	Back	1	9538	1907.6	22.2	22.5	1.072	-0.13	0.597	0.640
	WCDMA Band II	RMC12.2Kbps	Left side	1	9538	1907.6	22.2	22.5	1.072	-0.08	0.352	0.377
#19	WCDMA Band II	RMC12.2Kbps	Bottom side	1	9538	1907.6	22.2	22.5	1.072	-0.09	0.897	0.961
	WCDMA Band II	RMC12.2Kbps	Front	1	9262	1852.4	21.84	22.5	1.164	0.04	0.581	0.676
	WCDMA Band II	RMC12.2Kbps	Front	1	9400	1880	21.89	22.5	1.151	0.02	0.655	0.754
	WCDMA Band II	RMC12.2Kbps	Bottom side	1	9262	1852.4	21.84	22.5	1.164	-0.11	0.665	0.774
	WCDMA Band II	RMC12.2Kbps	Bottom side	1	9400	1880	21.89	22.5	1.151	-0.12	0.768	0.884

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### <LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offset	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	49	QPSK	Front	1	23790	710	23.28	23.5	1.052	-0.07	0.201	0.211
	LTE Band 17	10M	1	49	QPSK	Back	1	23790	710	23.28	23.5	1.052	-0.08	0.252	0.265
	LTE Band 17	10M	1	49	QPSK	Left side	1	23790	710	23.28	23.5	1.052	-0.12	0.245	0.258
	LTE Band 17	10M	1	49	QPSK	Bottom side	1	23790	710	23.28	23.5	1.052	-0.07	0.055	0.058
	LTE Band 17	10M	1	49	QPSK	Back	1	23780	709	23.19	23.5	1.074	0.09	0.248	0.266
#20	LTE Band 17	10M	1	49	QPSK	Back	1	23800	711	23.03	23.5	1.114	0.03	0.258	<mark>0.287</mark>
	LTE Band 17	10M	25	0	QPSK	Front	1	23790	710	22.08	22.5	1.102	-0.06	0.158	0.174
	LTE Band 17	10M	25	0	QPSK	Back	1	23790	710	22.08	22.5	1.102	0.01	0.205	0.226
	LTE Band 17	10M	25	0	QPSK	Left side	1	23790	710	22.08	22.5	1.102	-0.06	0.191	0.210
	LTE Band 17	10M	25	0	QPSK	Bottom side	1	23790	710	22.08	22.5	1.102	-0.12	0.042	0.046
	LTE Band 4	20M	1	0	QPSK	Front	1	20175	1732.5	23.31	23.5	1.045	0.14	0.701	0.732
	LTE Band 4	20M	1	0	QPSK	Back	1	20175	1732.5	23.31	23.5	1.045	0.08	0.537	0.561
	LTE Band 4	20M	1	0	QPSK	Left side	1	20175	1732.5	23.31	23.5	1.045	-0.03	0.295	0.308
#21	LTE Band 4	20M	1	0	QPSK	Bottom side	1	20175	1732.5	23.31	23.5	1.045	0.02	0.760	<mark>0.794</mark>
	LTE Band 4	20M	1	0	QPSK	Front	1	20050	1720	23.17	23.5	1.079	0.05	0.539	0.582
	LTE Band 4	20M	1	0	QPSK	Front	1	20300	1745	23.24	23.5	1.062	0.03	0.510	0.541
	LTE Band 4	20M	1	0	QPSK	Bottom side	1	20050	1720	23.17	23.5	1.079	0.01	0.716	0.773
	LTE Band 4	20M	1	0	QPSK	Bottom side	1	20300	1745	23.24	23.5	1.062	0.06	0.634	0.673
	LTE Band 4	20M	50	0	QPSK	Front	1	20175	1732.5	22.15	22.5	1.084	0.14	0.277	0.300
	LTE Band 4	20M	50	0	QPSK	Back	1	20175	1732.5	22.15	22.5	1.084	0.08	0.230	0.249
	LTE Band 4	20M	50	0	QPSK	Left side	1	20175	1732.5	22.15	22.5	1.084	-0.01	0.128	0.139
	LTE Band 4	20M	50	0	QPSK	Bottom side	1	20175	1732.5	22.15	22.5	1.084	0.16	0.358	0.388

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Plot No.	Band	BW (MHz)	RB Size	RB offset	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 2	20M	1	0	QPSK	Front	1	19100	1900	22.91	23.5	1.146	0.03	0.616	0.706
	LTE Band 2	20M	1	0	QPSK	Back	1	19100	1900	22.91	23.5	1.146	-0.13	0.556	0.637
	LTE Band 2	20M	1	0	QPSK	Left side	1	19100	1900	22.91	23.5	1.146	-0.06	0.244	0.280
#22	LTE Band 2	20M	1	0	QPSK	Bottom side	1	19100	1900	22.91	23.5	1.146	-0.12	0.903	1.034
	LTE Band 2	20M	1	0	QPSK	Front	1	18700	1860	22.86	23.5	1.159	0.11	0.658	0.762
	LTE Band 2	20M	1	0	QPSK	Front	1	18900	1880	22.66	23.5	1.213	0.03	0.641	0.778
	LTE Band 2	20M	1	0	QPSK	Bottom side	1	18700	1860	22.86	23.5	1.159	-0.14	0.793	0.919
	LTE Band 2	20M	1	0	QPSK	Bottom side	1	18900	1880	22.66	23.5	1.213	0.06	0.841	1.020
	LTE Band 2	20M	50	0	QPSK	Front	1	19100	1900	21.84	22.5	1.164	0.04	0.500	0.582
	LTE Band 2	20M	50	0	QPSK	Back	1	19100	1900	21.84	22.5	1.164	-0.06	0.439	0.511
	LTE Band 2	20M	50	0	QPSK	Left side	1	19100	1900	21.84	22.5	1.164	-0.09	0.207	0.241
	LTE Band 2	20M	50	0	QPSK	Bottom side	1	19100	1900	21.84	22.5	1.164	-0.1	0.729	0.849
	LTE Band 2	20M	50	0	QPSK	Bottom side	1	18700	1860	21.7	22.5	1.202	-0.11	0.587	0.706
	LTE Band 2	20M	50	0	QPSK	Bottom side	1	18900	1880	21.73	22.5	1.194	-0.11	0.643	0.768
	LTE Band 2	20M	100	0	QPSK	Bottom side	1	19100	1900	21.69	22.5	1.205	-0.16	0.707	0.852
	LTE Band 7	20M	1	0	QPSK	Front	1	20850	2510	20.5	20.5	1.000	0.03	0.308	0.308
	LTE Band 7	20M	1	0	QPSK	Back	1	20850	2510	20.5	20.5	1.000	0.04	1.270	1.270
	LTE Band 7	20M	1	0	QPSK	Left side	1	20850	2510	20.5	20.5	1.000	-0.11	0.064	0.064
	LTE Band 7	20M	1	0	QPSK	Bottom side	1	20850	2510	20.5	20.5	1.000	0.02	1.250	1.250
	LTE Band 7	20M	1	0	QPSK	Back	1	21100	2535	20.35	20.5	1.035	0.03	1.280	1.325
	LTE Band 7	20M	1	0	QPSK	Back	1	21350	2560	20.18	20.5	1.076	0.03	1.130	1.216
#23	LTE Band 7	20M	1	0	QPSK	Bottom side	1	21100	2535	20.35	20.5	1.035	-0.08	1.370	<mark>1.418</mark>
	LTE Band 7	20M	1	0	QPSK	Bottom side	1	21350	2560	20.18	20.5	1.076	0.09	1.290	1.389
	LTE Band 7	20M	50	0	QPSK	Front	1	20850	2510	19.13	19.5	1.089	0.08	0.229	0.249
	LTE Band 7	20M	50	0	QPSK	Back	1	20850	2510	19.13	19.5	1.089	0.08	0.999	1.088
	LTE Band 7	20M	50	0	QPSK	Left side	1	20850	2510	19.13	19.5	1.089	-0.05	0.049	0.053
	LTE Band 7	20M	50	0	QPSK	Bottom side	1	20850	2510	19.13	19.5	1.089	-0.04	1.000	1.089
	LTE Band 7	20M	50	0	QPSK	Back	1	21100	2535	18.86	19.5	1.159	0.04	0.935	1.083
	LTE Band 7	20M	50	0	QPSK	Back	1	21350	2560	18.94	19.5	1.138	0.04	0.861	0.979
	LTE Band 7	20M	50	0	QPSK	Bottom side	1	21100	2535	18.86	19.5	1.159	-0.09	1.010	1.170
	LTE Band 7	20M	50	0	QPSK	Bottom side	1	21350	2560	18.94	19.5	1.138	-0.01	0.966	1.099
	LTE Band 7	20M	100	0	QPSK	Back	1	20850	2510	19.1	19.5	1.096	0.03	0.824	0.903
	LTE Band 7	20M	100	0	QPSK	Bottom side	1	20850	2510	19.1	19.5	1.096	-0.01	0.979	1.073

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### <WLAN2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Area Scan Max. SAR (W/kg)	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	1	11	2462	15.19	15.5	1.074	98.19	1.018	0.12			
#24	WLAN 2.4GHz	802.11b 1Mbps	Back	1	11	2462	15.19	15.5	1.074	98.19	1.018	0.242	0.05	0.207	0.226
	WLAN 2.4GHz	802.11b 1Mbps	Right side	1	11	2462	15.19	15.5	1.074	98.19	1.018	0.101			
	WLAN 2.4GHz	802.11b 1Mbps	Top side	1	11	2462	15.19	15.5	1.074	98.19	1.018	0.0913			
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	1	2412	14.59	15	1.099	98.19	1.018		0.01	0.108	0.121
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	6	2437	14.3	15	1.175	98.19	1.018	·	0.09	0.131	0.157

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### <WLAN5GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Area Scan Max. SAR (W/kg)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 5.2GHz	802.11a 6Mbps	Front	1	36	5180	15.77	16	1.054	87.82	1.139		0.09		
	WLAN 5.2GHz	802.11a 6Mbps	Back	1	36	5180	15.77	16	1.054	87.82	1.139	0.06	0.196	0.085	0.102
	WLAN 5.2GHz	802.11a 6Mbps	Right Side	1	36	5180	15.77	16	1.054	87.82	1.139		0.176		
	WLAN 5.2GHz	802.11a 6Mbps	Top Side	1	36	5180	15.77	16	1.054	87.82	1.139		0.084		
	WLAN 5.2GHz	802.11a 6Mbps	Back	1	40	5200	15.58	16	1.102	87.82	1.139	-0.02		0.116	0.146
#25	WLAN 5.2GHz	802.11a 6Mbps	Back	1	48	5240	15.62	16	1.091	87.82	1.139	0.1		0.144	<mark>0.179</mark>
	WLAN 5.8GHz	802.11a 6Mbps	Front	1	157	5785	15.96	16.5	1.132	87.82	1.139		0.11		
	WLAN 5.8GHz	802.11a 6Mbps	Back	1	157	5785	15.96	16.5	1.132	87.82	1.139	-0.04	0.293	0.157	0.202
	WLAN 5.8GHz	802.11a 6Mbps	Right Side	1	157	5785	15.96	16.5	1.132	87.82	1.139		0.185		
	WLAN 5.8GHz	802.11a 6Mbps	Top Side	1	157	5785	15.96	16.5	1.132	87.82	1.139		0.134		
#26	WLAN 5.8GHz	802.11a 6Mbps	Back	1	149	5745	15.49	16.5	1.262	87.82	1.139	0.068		0.149	<mark>0.214</mark>
	WLAN 5.8GHz	802.11a 6Mbps	Back	1	165	5825	15.82	16.5	1.169	87.82	1.139	-0.086		0.092	0.123

### <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	1Mbps	Front	1	39	2441	11.07	11.5	1.104	-0.02	0.023	0.025
#27	Bluetooth	1Mbps	Back	1	39	2441	11.07	11.5	1.104	-0.1	0.053	<mark>0.059</mark>
	Bluetooth	1Mbps	Right Side	1	39	2441	11.07	11.5	1.104	-0.18	0.025	0.028
	Bluetooth	1Mbps	Top Side	1	39	2441	11.07	11.5	1.104	0.15	0.021	0.023
	Bluetooth	1Mbps	Back	1	0	2402	8.53	9	1.115	-0.025	0.039	0.043
	Bluetooth	1Mbps	Back	1	78	2480	8.30	9	1.175	-0.06	0.035	0.041

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### 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 (GMSK 4 Tx slots)	Front	1	128	824.2	31.93	32	1.016	-0.04	0.867	0.881
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	128	824.2	31.93	32	1.016	-0.14	1.130	1.148
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	189	836.4	31.36	32	1.159	-0.03	0.826	0.957
	GSM850	GPRS (GMSK 4 Tx slots)	Front	1	251	848.8	31.4	32	1.148	-0.05	0.698	0.801
#15	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	189	836.4	31.36	32	1.159	-0.06	1.080	<mark>1.251</mark>
	GSM850	GPRS (GMSK 4 Tx slots)	Back	1	251	848.8	31.4	32	1.148	-0.06	0.956	1.098
	GSM850	GPRS (GMSK 4 Tx slots)	Back with headset	1	189	836.4	31.36	32	1.159	-0.12	0.962	1.115
	GSM850	GPRS (GMSK 4 Tx slots)	Back with headset	1	128	824.2	31.93	32	1.016	-0.06	1.060	1.077
	GSM850	GPRS (GMSK 4 Tx slots)	Back with headset	1	251	848.8	31.4	32	1.148	0.13	0.833	0.956
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	661	1880	29.03	29.5	1.114	0.18	0.775	0.864
	GSM1900	GPRS (GMSK 4 Tx slots)	Back	1	661	1880	29.03	29.5	1.114	-0.03	0.580	0.646
	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	512	1850.2	28.74	29.5	1.191	0.03	0.665	0.792
#28	GSM1900	GPRS (GMSK 4 Tx slots)	Front	1	810	1909.8	28.77	29.5	1.183	0.19	0.871	<mark>1.030</mark>

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### <WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC12.2Kbps	Front	1	4182	836.4	22.59	23	1.099	-0.08	0.228	0.251
#17	WCDMA Band V	RMC12.2Kbps	Back	1	4182	836.4	22.59	23	1.099	0.12	0.422	0.464
	WCDMA Band V	RMC12.2Kbps	Back	1	4132	826.4	21.38	23	1.452	0.17	0.272	0.395
	WCDMA Band V	RMC12.2Kbps	Back	1	4233	846.6	22.52	23	1.117	-0.01	0.379	0.423
#29	WCDMA Band IV	RMC12.2Kbps	Front	1	1312	1712.4	21.88	22.5	1.153	0.02	0.598	<mark>0.690</mark>
	WCDMA Band IV	RMC12.2Kbps	Back	1	1312	1712.4	21.88	22.5	1.153	0.07	0.414	0.478
	WCDMA Band IV	RMC12.2Kbps	Front	1	1413	1732.6	21.84	22.5	1.164	0.03	0.490	0.570
	WCDMA Band IV	RMC12.2Kbps	Front	1	1513	1752.6	21.82	22.5	1.169	0.09	0.501	0.586
#30	WCDMA Band II	RMC12.2Kbps	Front	1	9538	1907.6	22.2	22.5	1.072	0.13	0.757	<mark>0.811</mark>
	WCDMA Band II	RMC12.2Kbps	Back	1	9538	1907.6	22.2	22.5	1.072	-0.13	0.597	0.640
	WCDMA Band II	RMC12.2Kbps	Front	1	9262	1852.4	21.84	22.5	1.164	0.04	0.581	0.676
	WCDMA Band II	RMC12.2Kbps	Front	1	9400	1880	21.89	22.5	1.151	0.02	0.655	0.754

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Plot No.	Band	BW (MHz)	RB Size	RB offset	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	49	QPSK	Front	1	23790	710	23.28	23.5	1.052	-0.07	0.201	0.211
	LTE Band 17	10M	1	49	QPSK	Back	1	23790	710	23.28	23.5	1.052	-0.08	0.252	0.265
	LTE Band 17	10M	1	49	QPSK	Back	1	23780	709	23.19	23.5	1.074	0.09	0.248	0.266
#20	LTE Band 17	10M	1	49	QPSK	Back	1	23800	711	23.03	23.5	1.114	0.03	0.258	<mark>0.287</mark>
	LTE Band 17	10M	25	0	QPSK	Front	1	23790	710	22.08	22.5	1.102	-0.06	0.158	0.174
	LTE Band 17	10M	25	0	QPSK	Back	1	23790	710	22.08	22.5	1.102	0.01	0.205	0.226
#31	LTE Band 4	20M	1	0	QPSK	Front	1	20175	1732.5	23.31	23.5	1.045	0.14	0.701	<mark>0.732</mark>
	LTE Band 4	20M	1	0	QPSK	Back	1	20175	1732.5	23.31	23.5	1.045	0.08	0.537	0.561
	LTE Band 4	20M	1	0	QPSK	Front	1	20050	1720	23.17	23.5	1.079	0.05	0.539	0.582
	LTE Band 4	20M	1	0	QPSK	Front	1	20300	1745	23.24	23.5	1.062	0.03	0.510	0.541
	LTE Band 4	20M	50	0	QPSK	Front	1	20175	1732.5	22.15	22.5	1.084	0.14	0.277	0.300
	LTE Band 4	20M	50	0	QPSK	Back	1	20175	1732.5	22.15	22.5	1.084	0.08	0.230	0.249
	LTE Band 2	20M	1	0	QPSK	Front	1	19100	1900	22.91	23.5	1.146	0.03	0.616	0.706
	LTE Band 2	20M	1	0	QPSK	Back	1	19100	1900	22.91	23.5	1.146	-0.13	0.556	0.637
	LTE Band 2	20M	1	0	QPSK	Front	1	18700	1860	22.86	23.5	1.159	0.11	0.658	0.762
#32	LTE Band 2	20M	1	0	QPSK	Front	1	18900	1880	22.66	23.5	1.213	0.03	0.641	<mark>0.778</mark>
	LTE Band 2	20M	50	0	QPSK	Front	1	19100	1900	21.84	22.5	1.164	0.04	0.500	0.582
	LTE Band 2	20M	50	0	QPSK	Back	1	19100	1900	21.84	22.5	1.164	-0.06	0.439	0.511
	LTE Band 7	20M	1	0	QPSK	Front	1	20850	2510	20.5	20.5	1.000	0.03	0.308	0.308
	LTE Band 7	20M	1	0	QPSK	Back	1	20850	2510	20.5	20.5	1.000	0.04	1.270	1.270
#33	LTE Band 7	20M	1	0	QPSK	Back	1	21100	2535	20.35	20.5	1.035	0.03	1.280	1.325
	LTE Band 7	20M	1	0	QPSK	Back	1	21350	2560	20.18	20.5	1.076	0.03	1.130	1.216
	LTE Band 7	20M	1	0	QPSK	Back with headset	1	21100	2535	20.35	20.5	1.035	0.03	1.250	1.294
	LTE Band 7	20M	1	0	QPSK	Back with headset	1	20850	2510	20.5	20.5	1.000	0.01	1.270	1.270
	LTE Band 7	20M	1	0	QPSK	Back with headset	1	21350	2560	20.18	20.5	1.076	0.04	1.140	1.227
	LTE Band 7	20M	50	0	QPSK	Front	1	20850	2510	19.13	19.5	1.089	0.08	0.229	0.249
	LTE Band 7	20M	50	0	QPSK	Back	1	20850	2510	19.13	19.5	1.089	0.08	0.999	1.088
	LTE Band 7	20M	50	0	QPSK	Back	1	21100	2535	18.86	19.5	1.159	0.04	0.935	1.083
	LTE Band 7	20M	50	0	QPSK	Back	1	21350	2560	18.94	19.5	1.138	0.04	0.861	0.979
	LTE Band 7	20M	100	0	QPSK	Back	1	20850	2510	19.1	19.5	1.096	0.03	0.824	0.903

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### <WLAN2.4GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Area Scan Max. SAR (W/kg)	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b 1Mbps	Front	1	11	2462	15.19	15.5	1.074	98.19	1.018	0.12			
#24	WLAN 2.4GHz	802.11b 1Mbps	Back	1	11	2462	15.19	15.5	1.074	98.19	1.018	0.242	0.05	0.207	<mark>0.226</mark>
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	1	2412	14.59	15	1.099	98.19	1.018		0.01	0.108	0.121
	WLAN 2.4GHz	802.11b 1Mbps	Back	1	6	2437	14.3	15	1.175	98.19	1.018	·	0.09	0.131	0.157

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### <WLAN5GHz SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Area Scan Max. SAR (W/kg)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 5.3GHz	802.11a 6Mbps	Front	1	52	5260	15.7	16	1.072	87.82	1.139		0.146		
	WLAN 5.3GHz	802.11a 6Mbps	Back	1	52	5260	15.7	16	1.072	87.82	1.139	0.025	0.399	0.192	0.234
	WLAN 5.3GHz	802.11a 6Mbps	Back	1	56	5280	15.46	16	1.132	87.82	1.139	0.039		0.214	0.276
#34	WLAN 5.3GHz	802.11a 6Mbps	Back	1	64	5320	15.45	16	1.135	87.82	1.139	-0.13		0.241	0.312
	WLAN 5.5GHz	802.11a 6Mbps	Front	1	100	5500	15.8	16	1.047	87.82	1.139		0.165		
#35	WLAN 5.5GHz	802.11a 6Mbps	Back	1	100	5500	15.8	16	1.047	87.82	1.139	0.17	0.561	0.263	0.314
	WLAN 5.5GHz	802.11a 6Mbps	Back	1	132	5660	15.16	16	1.213	87.82	1.139	-0.05		0.205	0.283
	WLAN 5.5GHz	802.11a 6Mbps	Back	1	140	5700	15.74	16	1.062	87.82	1.139	-0.09		0.159	0.192
	WLAN 5.8GHz	802.11a 6Mbps	Front	1	157	5785	15.96	16.5	1.132	87.82	1.139		0.11		
	WLAN 5.8GHz	802.11a 6Mbps	Back	1	157	5785	15.96	16.5	1.132	87.82	1.139	-0.04	0.293	0.157	0.202
#26	WLAN 5.8GHz	802.11a 6Mbps	Back	1	149	5745	15.49	16.5	1.262	87.82	1.139	0.068		0.149	0.214
	WLAN 5.8GHz	802.11a 6Mbps	Back	1	165	5825	15.82	16.5	1.169	87.82	1.139	-0.086		0.092	0.123

### <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	1Mbps	Front	1	39	2441	11.07	11.5	1.104	-0.02	0.023	0.025
#27	Bluetooth	1Mbps	Back	1	39	2441	11.07	11.5	1.104	-0.1	0.053	<mark>0.059</mark>
	Bluetooth	1Mbps	Back	1	0	2402	8.53	9	1.115	-0.025	0.039	0.043
	Bluetooth	1Mbps	Back	1	78	2480	8.30	9	1.175	-0.06	0.035	0.041

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### 14.4 Extremity 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 10g SAR (W/kg)	
#36	GSM850	GPRS (GMSK 4 Tx slots)	Back	0	189	836.4	31.36	32	1.159	0.03	1.430	1.657
#37	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	0	810	1909.8	28.77	29.5	1.183	0.17	3.220	3.809
	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	0	512	1850.2	28.74	29.5	1.191	-0.14	2.280	2.716
	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	0	661	1880	29.03	29.5	1.114	-0.09	2.720	3.031

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#### <LTE SAR>

Plot No.	Band	BW (MHz)	RB Size	RB offset	Modulation	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 7	20M	1	0	QPSK	Back	0	21100	2535	20.35	20.5	1.035	0.09	1.290	1.335
#38	LTE Band 7	20M	1	0	QPSK	Bottom side	0	21100	2535	20.35	20.5	1.035	0.07	1.350	1.397

### 14.5 Repeated SAR Measurement

No.	Band	BW (MHz)	RB Size	RB Offset	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	GSM850	-	-	-	GPRS (GMSK 4 Tx slots)	Back	1	128	824.2	31.93	32	1.016	-0.14	1.130	1	1.148
2nd	GSM850	-	-	-	GPRS (GMSK 4 Tx slots)	васк	1	128	824.2	31.93	32	1.016	-0.03	1.080	1.046	1.098
1st	GSM1900	-	-		GPRS (GMSK 4 Tx slots)			810	1909.8	28.77	29.5	1.183	-0.05	1.170	1	1.384
2nd	GSM1900	-	-	-	GPRS (GMSK 4 Tx slots)	Bottom side	1	810	1909.8	28.77	29.5	1.183	-0.01	1.150	1.018	1.360
1st	LTE Band 7	20M	1	0	QPSK	Bottom side	1	21100	2535	20.35	20.5	1.035	-0.08	1.370	1	1.418
2nd	LTE Band 7	20M	1	0	QPSK	Bottom side	1	21100	2535	20.35	20.5	1.035	-0.01	1.300	1.053	1.346

No.	Band	Modulation	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	0	810	1909.8	28.77	29.5	1.183	0.17	3.220	1	3.809
2nd	GSM1900	GPRS (GMSK 4 Tx slots)	Bottom side	0	810	1909.8	28.77	29.5	1.183	-0.17	3.120	1.032	3.691

#### **General Note:**

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. The ratio is the difference in percentage between original and repeated measured SAR.
- 5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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#### 15. Simultaneous Transmission Analysis

NO	Cimulton and Tonomicaion Continuation		Phone		Note
NO.	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.	GSM(Voice) + WLAN5GHz(data)	Yes	Yes		
6.	WCDMA((Voice) + WLAN5GHz(data)	Yes	Yes		
7.	GPRS/EDGE(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
8.	WCDMA(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
9.	LTE(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot
10.	GPRS/EDGE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
11.	WCDMA(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
12.	LTE(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering
13.	GPRS/EDGE(data) + WLAN5GHz(data)	Yes	Yes	Yes	WiFi Direct
14.	WCDMA(data) + WLAN5GHz(data)	Yes	Yes	Yes	WiFi Direct
15.	LTE(data) + WLAN5GHz(data)	Yes	Yes	Yes	WiFi Direct

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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, and 2.4GHz /5.2GHz/ 5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
- WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously. 3.
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz 4. WLAN and 5GHz WLAN will not operate simultaneously at any moment.
- 5. The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant if,

  - i) Scalar SAR summation < 1.6W/kg.</li>
     ii) SPLSR = (SAR<sub>1</sub> + SAR<sub>2</sub>)<sup>1.5</sup> / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x<sub>1</sub>-x<sub>2</sub>)<sup>2</sup> + (y<sub>1</sub>-y<sub>2</sub>)<sup>2</sup> + (z<sub>1</sub>-z<sub>2</sub>)<sup>2</sup>], where (x<sub>1</sub>, y<sub>1</sub>, z<sub>1</sub>) and (x<sub>2</sub>, y<sub>2</sub>, z<sub>2</sub>) 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.
  - v) The SPLSR calculated results please refer to section 15.4.

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### 15.1 Head Exposure Conditions

#### <WWAN + WLAN 2.4GHz >

	WLAN 2.4GF		WWAN PCB	WLAN DTS	Summed		
WWAI	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.840	0.579	1.42		
	GSM850	Right Tilted	0.454	0.579	1.03		
	03101030	Left Cheek	0.693	0.579	1.27		
GSM		Left Tilted	0.423	0.579	1.00		
GSIVI		Right Cheek	0.216	0.579	0.80		
	GSM1900	Right Tilted	0.143	0.579	0.72		
	G31VI 1900	Left Cheek	0.368	0.579	0.95		
		Left Tilted	0.189	0.579	0.77		
		Right Cheek	0.253	0.579	0.83		
	Dond V	Right Tilted	0.164	0.579	0.74		
	Band V	Left Cheek	0.265	0.579	0.84		
		Left Tilted	0.171	0.579	0.75		
		Right Cheek	0.170	0.579	0.75		
WCDMA	Band IV	Right Tilted	0.112	0.579	0.69		
		Left Cheek	0.212	0.579	0.79		
		Left Tilted	0.134	0.579	0.71		
		Right Cheek	0.203	0.579	0.78		
	Band II	Right Tilted	0.106	0.579	0.69		
		Left Cheek	0.254	0.579	0.83		
		Left Tilted	0.136	0.579	0.72		
		Right Cheek	0.097	0.579	0.68		
	D147	Right Tilted	0.068	0.579	0.65		
	Band 17	Left Cheek	0.106	0.579	0.69		
		Left Tilted	0.074	0.579	0.65		
		Right Cheek	0.238	0.579	0.82		
	<b>D</b> 14	Right Tilted	0.137	0.579	0.72		
	Band 4	Left Cheek	0.227	0.579	0.81		
		Left Tilted	0.114	0.579	0.69		
LTE		Right Cheek	0.205	0.579	0.78		
	D 10	Right Tilted	0.086	0.579	0.67		
	Band 2	Left Cheek	0.286	0.579	0.87		
-		Left Tilted	0.117	0.579	0.70		
		Right Cheek	0.027	0.579	0.61		
		Right Tilted	0.013	0.579	0.59		
	Band 7	Left Cheek	0.048	0.579	0.63		
		Left Tilted	0.009	0.579	0.59		

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SWITAIT	WLAN 5GHz		WWAN PCB	WLAN NII	Summed		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	Suffiried SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.840	0.477	1.32		
	GSM850	Right Tilted	0.454	0.477	0.93		
		Left Cheek	0.693	0.477	1.17		
GSM		Left Tilted	0.423	0.477	0.90		
OOW		Right Cheek	0.216	0.477	0.69		
	GSM1900	Right Tilted	0.143	0.477	0.62		
	CONTIDUO	Left Cheek	0.368	0.477	0.85		
		Left Tilted	0.189	0.477	0.67		
		Right Cheek	0.253	0.477	0.73		
	Band V	Right Tilted	0.164	0.477	0.64		
	Dana v	Left Cheek	0.265	0.477	0.74		
		Left Tilted	0.171	0.477	0.65		
	MA Band IV	Right Cheek	0.170	0.477	0.65		
WCDMA		Right Tilted	0.112	0.477	0.59		
WCDIVIA		Left Cheek	0.212	0.477	0.69		
		Left Tilted	0.134	0.477	0.61		
	Band II	Right Cheek	0.203	0.477	0.68		
		Right Tilted	0.106	0.477	0.58		
		Left Cheek	0.254	0.477	0.73		
		Left Tilted	0.136	0.477	0.61		
		Right Cheek	0.097	0.477	0.57		
	Band 17	Right Tilted	0.068	0.477	0.55		
	Danu 17	Left Cheek	0.106	0.477	0.58		
		Left Tilted	0.074	0.477	0.55		
		Right Cheek	0.238	0.477	0.72		
	Dond 4	Right Tilted	0.137	0.477	0.61		
	Band 4	Left Cheek	0.227	0.477	0.70		
LTE		Left Tilted	0.114	0.477	0.59		
LIE		Right Cheek	0.205	0.477	0.68		
	Dord 0	Right Tilted	0.086	0.477	0.56		
	Band 2	Left Cheek	0.286	0.477	0.76		
		Left Tilted	0.117	0.477	0.59		
		Right Cheek	0.027	0.477	0.50		
		Right Tilted	0.013	0.477	0.49		
	Band 7	Left Cheek	0.048	0.477	0.53		
		Left Tilted	0.009	0.477	0.49		

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<wwan +="" i<="" th=""><th>Bidotootii&gt;</th><th></th><th>WWAN PCB</th><th>Bluetooth DSS</th><th>Summed</th><th></th><th></th></wwan>	Bidotootii>		WWAN PCB	Bluetooth DSS	Summed		
1AWW	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Bluetooth SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.840	0.063	0.90		
	GSM850	Right Tilted	0.454	0.056	0.51		
	Comoco	Left Cheek	0.693	0.156	0.85		
GSM		Left Tilted	0.423	0.145	0.57		
COIVI		Right Cheek	0.216	0.063	0.28		
	GSM1900	Right Tilted	0.143	0.056	0.20		
	GOWITHOU	Left Cheek	0.368	0.156	0.52		
		Left Tilted	0.189	0.145	0.33		
		Right Cheek	0.253	0.063	0.32		
	Band V	Right Tilted	0.164	0.056	0.22		
	Dallu V	Left Cheek	0.265	0.156	0.42		
		Left Tilted	0.171	0.145	0.32		
		Right Cheek	0.170	0.063	0.23		
\A/ODA4A	D 1 D /	Right Tilted	0.112	0.056	0.17		
WCDMA	Band IV	Left Cheek	0.212	0.156	0.37		
		Left Tilted	0.134	0.145	0.28		
	David III	Right Cheek	0.203	0.063	0.27		
		Right Tilted	0.106	0.056	0.16		
	Band II	Left Cheek	0.254	0.156	0.41		
		Left Tilted	0.136	0.145	0.28		
		Right Cheek	0.097	0.063	0.16		
		Right Tilted	0.068	0.056	0.12		
	Band 17	Left Cheek	0.106	0.156	0.26		
		Left Tilted	0.074	0.145	0.22		
		Right Cheek	0.238	0.063	0.30		
		Right Tilted	0.137	0.056	0.19		
	Band 4	Left Cheek	0.227	0.156	0.38		
		Left Tilted	0.114	0.145	0.26		
LTE		Right Cheek	0.205	0.063	0.27		
		Right Tilted	0.086	0.056	0.14		
	Band 2	Left Cheek	0.286	0.156	0.44		
		Left Tilted	0.117	0.145	0.26		
		Right Cheek	0.027	0.063	0.09		
	Band 7	Right Tilted	0.013	0.056	0.07		
		Left Cheek	0.048	0.156	0.20		
		Left Tilted	0.009	0.145	0.15		

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# 15.2 Hotspot Exposure Conditions

#### <WWAN + WLAN 2.4GHz>

	- WLAN 2.40		WWAN PCB	WLAN DTS	Summed		
WWA	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.957	0.226	1.18		
		Back	1.251	0.226	1.48		
	GSM850	Left side	0.769		0.77		
	GSIVIOSO	Right side		0.226	0.23		
		Top side		0.226	0.23		
GSM		Bottom side	0.493		0.49		
GSIVI		Front	1.030	0.226	1.26		
		Back	0.646	0.226	0.87		
	CCM4000	Left side	0.459		0.46		
	GSM1900	Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	1.384		1.38		
		Front	0.251	0.226	0.48		
		Back	0.464	0.226	0.69		
	Band V	Left side	0.275		0.28		
		Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	0.178		0.18		
		Front	0.690	0.226	0.92		
		Back	0.478	0.226	0.70		
MCDMA	D = = = 1 \ /	Left side	0.233		0.23		
WCDMA	Band IV	Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	0.731		0.73		
		Front	0.811	0.226	1.04		
		Back	0.640	0.226	0.87		
	Dec. III	Left side	0.377		0.38		
	Band II	Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	0.961		0.96		

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			WWAN PCB	WLAN DTS	Summed		
WWA	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.211	0.226	0.44		
		Back	0.287	0.226	0.51		
	D147	Left side	0.258		0.26		
	Band 17	Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	0.058		0.06		
		Front	0.732	0.226	0.96		
		Back	0.561	0.226	0.79		
		Left side	0.308		0.31		
		Right side		0.226	0.23		
		Top side		0.226	0.23		
LTE		Bottom side	0.794		0.79		
		Front	0.778	0.226	1.00		
		Back	0.637	0.226	0.86		
	Band 2	Left side	0.280		0.28		
	Danu 2	Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	1.034		1.03		
	Band 7	Front	0.308	0.226	0.53		
		Back	1.325	0.226	1.55		
		Left side	0.064		0.06		
		Right side		0.226	0.23		
		Top side		0.226	0.23		
		Bottom side	1.418		1.42		

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			WWAN PCB	WLAN NII	Summed		
WWAI	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.957	0.214	1.17		
		Back	1.251	0.214	1.47		
	GSM850	Left side	0.769		0.77		
	GSIVIOSO	Right side		0.214	0.21		
		Top side		0.214	0.21		
GSM		Bottom side	0.493		0.49		
GSIVI		Front	1.030	0.214	1.24		
	GSM1900	Back	0.646	0.214	0.86		
		Left side	0.459		0.46		
	GSW1900	Right side		0.214	0.21		
	-	Top side		0.214	0.21		
		Bottom side	1.384		1.38		
		Front	0.251	0.214	0.47		
		Back	0.464	0.214	0.68		
	Band V	Left side	0.275		0.28		
		Right side		0.214	0.21		
		Top side		0.214	0.21		
		Bottom side	0.178		0.18		
		Front	0.690	0.214	0.90		
		Back	0.478	0.214	0.69		
M/ODMA	Donal IV	Left side	0.233		0.23		
WCDMA	Band IV	Right side		0.214	0.21		
		Top side		0.214	0.21		
		Bottom side	0.731		0.73		
		Front	0.811	0.214	1.03		
		Back	0.640	0.214	0.85		
	D I.V	Left side	0.377		0.38		
	Band II	Right side		0.214	0.21		
		Top side		0.214	0.21		
		Bottom side	0.961		0.96		

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			WWAN PCB	WLAN NII	Summed		
WWA	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.211	0.214	0.43		
		Back	0.287	0.214	0.50		
	Band 17	Left side	0.258		0.26		
	Band 17	Right side		0.214	0.21		
		Top side		0.214	0.21		
		Bottom side	0.058		0.06		
		Front	0.732	0.214	0.95		
		Back	0.561	0.214	0.78		
	Band 4	Left side	0.308		0.31		
	Danu 4	Right side		0.214	0.21		
		Top side		0.214	0.21		
LTE		Bottom side	0.794		0.79		
		Front	0.778	0.214	0.99		
		Back	0.637	0.214	0.85		
	Band 2	Left side	0.280		0.28		
	Danu Z	Right side		0.214	0.21		
		Top side		0.214	0.21		
		Bottom side	1.034		1.03		
	Band 7	Front	0.308	0.214	0.52		
		Back	1.325	0.214	1.54		
		Left side	0.064		0.06		
	Dallu /	Right side		0.214	0.21		
	Dana 1	Top side		0.214	0.21		
		Bottom side	1.418		1.42		

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			WWAN PCB	Bluetooth DSS	Summed		
WWAI	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Bluetooth SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.957	0.025	0.98		
		Back	1.251	0.059	1.31		
	GSM850	Left side	0.769		0.77		
	G31V1030	Right side		0.028	0.03		
		Top side		0.023	0.02		
GSM		Bottom side	0.493		0.49		
GSIVI		Front	1.030	0.025	1.06		
		Back	0.646	0.059	0.71		
	GSM1900	Left side	0.459		0.46		
	GSW1900	Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	1.384		1.38		
		Front	0.251	0.025	0.28		
		Back	0.464	0.059	0.52		
	Band V	Left side	0.275		0.28		
		Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	0.178		0.18		
		Front	0.690	0.025	0.72		
		Back	0.478	0.059	0.54		
MODIAA	Donal IV	Left side	0.233		0.23		
WCDMA	Band IV	Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	0.731		0.73		
		Front	0.811	0.025	0.84		
		Back	0.640	0.059	0.70		
	Day 111	Left side	0.377		0.38		
	Band II	Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	0.961		0.96		

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			WWAN PCB	Bluetooth DSS	Summed		
WWAI	N Band	Exposure Position			SAR (W/kg)	SPLSR	Case No
		Front	0.211	0.025	0.24		
		Back	0.287	0.059	0.35		
		Left side	0.258		0.26		
	Band 17	Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	0.058		0.06		
		Front	0.732	0.025	0.76		
		Back	0.561	0.059	0.62		
	Band 4	Left side	0.308		0.31		
		Right side		0.028	0.03		
		Top side		0.023	0.02		
LTE		Bottom side	0.794		0.79		
		Front	0.778	0.025	0.80		
		Back	0.637	0.059	0.70		
	Band 2	Left side	0.280		0.28		
	Danu 2	Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	1.034		1.03		
		Front	0.308	0.025	0.33		
		Back	1.325	0.059	1.38		
	Band 7	Left side	0.064		0.06		
	Dallu /	Right side		0.028	0.03		
		Top side		0.023	0.02		
		Bottom side	1.418		1.42		

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# 15.3 Body-Worn Accessory Exposure Conditions

#### <WWAN + WLAN 2.4GHz>

	F WLAN 2.2		WWAN PCB	WLAN DTS	Summed		
WWAI	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.957	0.226	1.18		
	GSM850	Back	1.251	0.226	1.48		
GSM		Back with headset	1.115		1.12		
	GSM1900	Front	1.030	0.226	1.26		
	OSW11900	Back	0.646	0.226	0.87		
	Band V	Front	0.251	0.226	0.48		
		Back	0.464	0.226	0.69		
WCDMA	Band IV	Front	0.690	0.226	0.92		
WCDIMA		Back	0.478	0.226	0.70		
	Band II	Front	0.811	0.226	1.04		
		Back	0.640	0.226	0.87		
	D147	Front	0.211	0.226	0.44		
	Band 17	Back	0.287	0.226	0.51		
	Don't 4	Front	0.732	0.226	0.96		
	Band 4	Back	0.561	0.226	0.79		
LTE	Davido	Front	0.778	0.226	1.00		
	Band 2	Back	0.637	0.226	0.86		
	Band 7	Front	0.308	0.226	0.53		
		Back	1.325	0.226	1.55		
		Back with headset	1.294		1.29		

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			WWAN PCB	WLAN NII	Summed		
WWAN Band		Exposure Position	Max. WWAN SAR (W/kg)	Max. WLAN SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.957	0.314	1.12		
	GSM850	Back	1.251	0.314	<b>1.57</b>		
GSM		Back with headset	1.115		1.12		
	GSM1900	Front	1.030	0.314	1.20		
	GSW1900	Back	0.646	0.314	0.96		
	Band V	Front	0.251	0.314	0.42		
WCDMA		Back	0.464	0.314	0.78		
	Band IV	Front	0.690	0.314	0.86		
		Back	0.478	0.314	0.79		
	Band II	Front	0.811	0.314	0.98		
		Back	0.640	0.314	0.95		
	Band 17	Front	0.211	0.314	0.38		
	Danu 17	Back	0.287	0.314	0.60		
	Band 4	Front	0.732	0.314	0.90		
		Back	0.561	0.314	0.88		
LTE	D I C	Front	0.778	0.314	0.94		
	Band 2	Back	0.637	0.314	0.95		
	Band 7	Front	0.308	0.314	0.47		
		Back	1.325	0.314	1.64	0.01	#01
		Back with headset	1.294		1.29		

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			WWAN PCB	Bluetooth DSS	Summed		
WWAI	N Band	Exposure Position	Max. WWAN SAR (W/kg)	Bluetooth SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Front	0.957	0.025	0.98		
	GSM850	Back	1.251	0.059	1.31		
GSM		Back with headset	1.115		1.12		
	GSM1900	Front	1.030	0.025	1.06		
	G3W11900	Back	0.646	0.059	0.71		
	Band V	Front	0.251	0.025	0.28		
		Back	0.464	0.059	0.52		
WCDMA	Band IV	Front	0.690	0.025	0.72		
		Back	0.478	0.059	0.54		
	Band II	Front	0.811	0.025	0.84		
		Back	0.640	0.059	0.70		
	D147	Front	0.211	0.025	0.24		
	Band 17	Back	0.287	0.059	0.35		
	Band 4	Front	0.732	0.025	0.76		
		Back	0.561	0.059	0.62		
LTE	Band 2	Front	0.778	0.025	0.80		
		Back	0.637	0.059	0.70		
	Band 7	Front	0.308	0.025	0.33		
		Back	1.325	0.059	1.38		
		Back with headset	1.294		1.29		

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# 15.4 SPLSR Evaluation and Analysis

#### **General Note:**

SPLSR =  $(SAR_1 + SAR_2)^{1.5} / (min. separation distance, mm)$ . If SPLSR  $\leq 0.04$ , simultaneously transmission SAR measurement is not necessary

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	Band	Position	SAR			eak location (m)		3D distance	Summed SAR	SPLSR	Simultaneous
Case		Dallu F	Position	(W/kg)	(cm)	Х	Υ	Z	(mm)	(W/kg)	Results
1	LTE Band 7	Back	1.325	1	-0.0052	-0.0708	-0.204	146.2	1.64	0.01	Not required
	WLAN5.8GHz	Dack	0.314	1	-0.054	0.067	-0.206	140.2	1.04	0.01	Not required
		LTE Band 7							N CO		Hz

Test Engineer: Kat Yin

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# 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.

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

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

#### **Table 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.

**DASY Uncertainty Budget** According to IEEE 1528-2013 **Uncertainty** Standard Standard (Ci) (Ci) **Probability Divisor Error Description** Value **Uncertainty Uncertainty** 10g 1g (±%) (10g) (±%) (1g) (±%) **Measurement System Probe Calibration** 6.0 6.0 Ν 6.0 4.7 1.732 **Axial Isotropy** R 0.7 0.7 1.9 1.9 1.732 Hemispherical Isotropy 9.6 R 0.7 0.7 3.9 3.9 **Boundary Effects** 1.0 R 1.732 1 1 0.6 0.6 4.7 R 1.732 Linearity 1 2.7 2.7 1 System Detection Limits 1.0 R 1.732 1 1 0.6 0.6 Modulation Response R 1.732 1 3.2 1 1.8 1.8 Readout Electronics 0.3 Ν 1 1 1 0.3 0.3 R 1.732 1 1 Response Time 0.0 0.0 0.0 Integration Time 2.6 R 1.732 1 1.5 1.5 1 **RF Ambient Noise** 3.0 R 1.732 1 1 1.7 1.7 R 1.732 1 1 1.7 1.7 **RF Ambient Reflections** 3.0 Probe Positioner 0.4 R 0.2 1.732 1 1 0.2 **Probe Positioning** 2.9 R 1.732 1 1 1.7 1.7 Max. SAR Eval. 2.0 R 1.732 1.2 1.2 Test Sample Related **Device Positioning** 1.4 Ν 1 1 1 1.4 1.4 Device Holder 2.5 Ν 1 1 2.5 2.5 Power Drift 5.0 R 1.732 1 1 2.9 2.9 Power Scaling 0.0 R 1.732 1 0.0 0.0 1 **Phantom and Setup Phantom Uncertainty** 6.1 R 1.732 1 1 3.5 3.5 1 SAR correction 0.0 R 1.732 0.84 0.0 0.0 Liquid Conductivity Repeatability 0.2 Ν 0.78 0.71 0.1 0.1 1 Liquid Conductivity (target) 5.0 R 1.732 0.78 0.71 2.3 2.0 Liquid Conductivity (mea.) 2.5 R 1.732 0.78 1.1 1.0 0.71 Temp. unc. - Conductivity 3.4 R 1.732 0.78 0.71 1.5 1.4 Liquid Permittivity Repeatability 0.15 Ν 1 0.23 0.26 0.0 0.0 1.732 Liquid Permittivity (target) 5.0 R 0.23 0.26 0.7 8.0 Liquid Permittivity (mea.) 2.5 R 1.732 0.23 0.26 0.3 0.4 Temp. unc. - Permittivity 0.83 R 1.732 0.23 0.1 0.1 0.26

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10.8%

K=2

21.6%

10.7%

K=2

21.5%

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

**Combined Std. Uncertainty** 

Coverage Factor for 95 %

**Expanded STD Uncertainty** 

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**DASY Uncertainty Budget** According to IEEE 1528-2013 **Uncertainty** Standard Standard (Ci) (Ci) **Probability Divisor Error Description** Value **Uncertainty Uncertainty** 10g 1g (±%) (10g) (±%) (1g) (±%) **Measurement System Probe Calibration** 6.55 Ν 6.6 6.6 1.732 **Axial Isotropy** 4.7 R 0.7 0.7 1.9 1.9 1.732 Hemispherical Isotropy 9.6 R 0.7 0.7 3.9 3.9 **Boundary Effects** 2.0 R 1.732 1 1 1.2 1.2 R 1.732 Linearity 4.7 1 2.7 2.7 1 System Detection Limits 1.0 R 1.732 1 1 0.6 0.6 Modulation Response R 1.732 1 3.2 1 1.8 1.8 Readout Electronics 0.3 Ν 1 1 1 0.3 0.3 R 1.732 1 1 Response Time 0.0 0.0 0.0 Integration Time 2.6 R 1.732 1 1.5 1.5 1 **RF Ambient Noise** 3.0 R 1.732 1 1 1.7 1.7 R 1.732 1 1 1.7 1.7 **RF Ambient Reflections** 3.0 Probe Positioner 0.4 R 1.732 1 1 0.2 0.2 Probe Positioning 6.7 R 1.732 1 1 3.9 3.9 Max. SAR Eval. 4.0 R 1.732 2.3 2.3 Test Sample Related **Device Positioning** 1.4 Ν 1 1 1 1.4 1.4 Device Holder 2.5 Ν 1 1 2.5 2.5 Power Drift 5.0 R 1.732 1 1 2.9 2.9 Power Scaling 0.0 R 1.732 1 0.0 0.0 1 **Phantom and Setup Phantom Uncertainty** 6.6 R 1.732 1 1 3.8 3.8 1 SAR correction 0.0 R 1.732 0.84 0.0 0.0 0.2 Ν 0.78 0.71 Liquid Conductivity Repeatability 0.1 0.1 1 Liquid Conductivity (target) 5.0 R 1.732 0.78 0.71 2.3 2.0 Liquid Conductivity (mea.) 2.5 R 1.732 0.78 1.1 1.0 0.71 Temp. unc. - Conductivity 3.4 R 1.732 0.78 0.71 1.5 1.4 Liquid Permittivity Repeatability 0.15 Ν 1 0.23 0.26 0.0 0.0 Liquid Permittivity (target) 5.0 R 1.732 0.23 0.26 0.7 8.0 Liquid Permittivity (mea.) 2.5 R 1.732 0.23 0.26 0.3 0.4 Temp. unc. - Permittivity 0.83 R 1.732 0.23 0.1 0.1 0.26

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12.0%

K=2

23.9%

11.9%

K=2

23.8%

Table 16.3. Uncertainty Budget for frequency range 3 GHz to 6 GHz

**Combined Std. Uncertainty** 

**Coverage Factor for 95 %** 

**Expanded STD Uncertainty** 

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# 17. References

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r01, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Jun 2015.
- [6] FCC KDB 447498 D01 v05r02, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Feb 2014
- [7] FCC KDB 648474 D04 v01r02, "SAR Evaluation Considerations for Wireless Handsets", Dec 2013.
- [8] FCC KDB 941225 D01 v03, "3G SAR MEAUREMENT PROCEDURES", Oct 2014
- [9] FCC KDB 941225 D05 v02r03, "SAR Evaluation Considerations for LTE Devices", Dec 2013
- [10] FCC KDB 941225 D06 v02, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2014.
- [11] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [12] FCC KDB 865664 D02 v01r01, "RF Exposure Compliance Reporting and Documentation Considerations" May 2013.

# Appendix A. Plots of System Performance Check

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The plots are shown as follows.

SPORTON INTERNATIONAL (XI'AN) INC.

# System Check Head 750MHz 150817

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

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

Medium: HSL\_750\_150817 Medium parameters used: f = 750 MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.019$ ;  $\rho = 0.894$  S/m;  $\epsilon_r = 41.019$ ;  $\epsilon_r = 41.019$ 

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.89, 9.89, 9.89); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

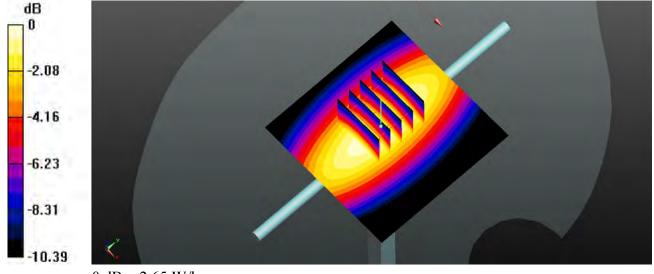
**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.62 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 53.22 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.38 W/kg

Maximum value of SAR (measured) = 2.65 W/kg



0 dB = 2.65 W/kg

#### System Check Head 835MHz 150817

**DUT: D835V2-SN: 4d091** 

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

Medium: HSL\_835\_150817 Medium parameters used: f = 835 MHz;  $\sigma = 0.913$  S/m;  $\epsilon_r = 40.859$ ;  $\rho = 0.913$  S/m;  $\epsilon_r = 40.859$ ;  $\epsilon_r = 40.859$ 

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

Ambient Temperature: 23.6°C; Liquid Temperature: 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

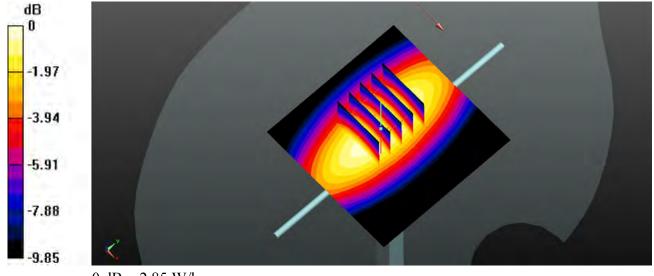
**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.85 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 50.94 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg

# System Check Head 1750MHz 150816

### **DUT: D1750V2-SN:1069**

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

Medium: HSL\_1750\_150816 Medium parameters used: f = 1750 MHz;  $\sigma$  = 1.395 S/m;  $\epsilon_r$  = 41.214;  $\rho$ 

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

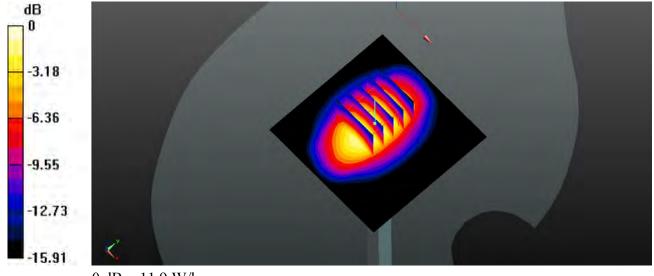
**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 12.2 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 82.74 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 8.68 W/kg; SAR(10 g) = 4.77 W/kg

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg

# System Check Head 1900MHz 150815

#### DUT: D1900V2-SN: 5d118

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

Medium: HSL\_1900\_150815 Medium parameters used: f = 1900 MHz;  $\sigma = 1.445$  S/m;  $\epsilon_r = 39.686$ ;  $\rho$ 

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

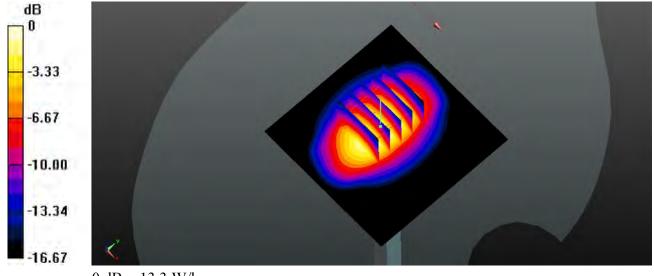
**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 13.6 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 85.83 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 9.59 W/kg; SAR(10 g) = 5.14 W/kg

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg

# System Check Head 2450MHz 150818

#### **DUT: D2450V2-SN:840**

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

Medium: HSL\_2450\_150818 Medium parameters used: f = 2450 MHz;  $\sigma$  = 1.843 S/m;  $\epsilon_r$  = 37.677;  $\rho$ 

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.05, 7.05, 7.05); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 20.5 W/kg

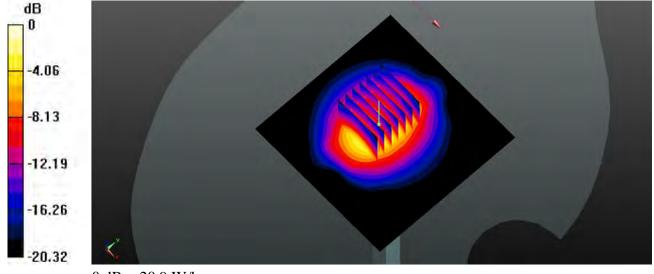
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.98 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.6 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.66 W/kg

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



0 dB = 20.9 W/kg

#### System Check\_Head\_2450MHz\_150817

#### **DUT: D2450V2 - SN:840**

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

Medium: HSL\_2450\_150817 Medium parameters used: f = 2450 MHz;  $\sigma = 1.82$  mho/m;  $\epsilon_r =$ 

Date: 2015.08.17

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

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

#### **DASY5** Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.05.28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

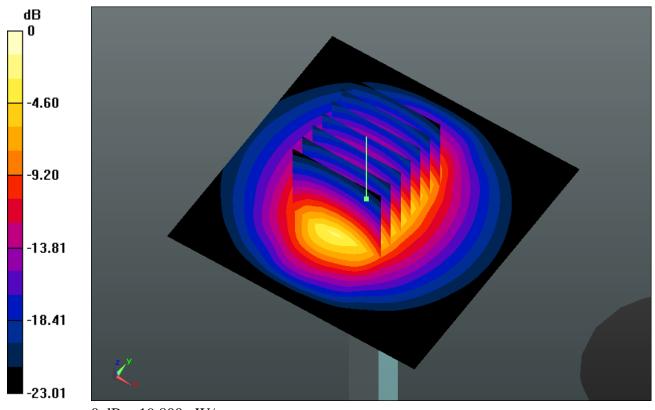
Pin=250mW/Area Scan (71x71x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 20.415 mW/g

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 88.681 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 26.782 W/kg

SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.81 mW/g

Maximum value of SAR (measured) = 19.800 mW/g



0 dB = 19.800 mW/g

# System Check Head 2600MHz 150818

#### **DUT: D2600V2-SN:1061**

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

Medium: HSL\_2600\_150818 Medium parameters used: f = 2600 MHz;  $\sigma = 2.049$  S/m;  $\epsilon_r = 37.739$ ;  $\rho$ 

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(6.92, 6.92, 6.92); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

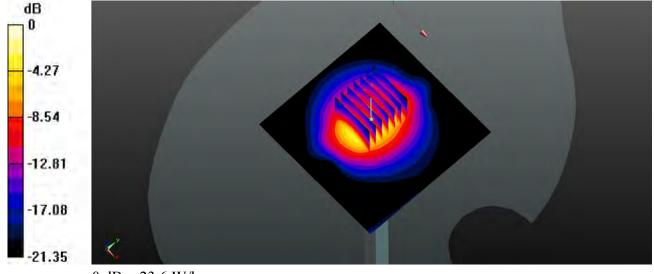
**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 23.6 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 83.37 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 15.4 W/kg; SAR(10 g) = 7.08 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



0 dB = 23.6 W/kg

### System Check\_Head\_5200MHz\_150813

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: HSL\_5000\_150813 Medium parameters used: f = 5200 MHz;  $\sigma = 4.795$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.13

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

Ambient Temperature: 23.8 °C; Liquid Temperature: 22.9 °C

#### DASY5 Configuration:

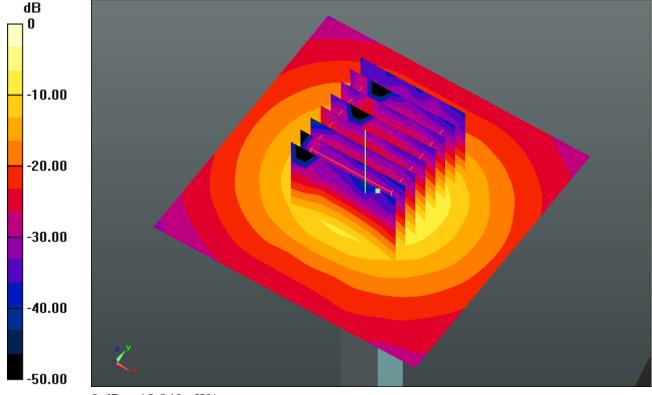
- Probe: EX3DV4 SN3857; ConvF(5.2, 5.2, 5.2); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 19.086 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 44.076 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 32.861 W/kg

SAR(1 g) = 8.06 mW/g; SAR(10 g) = 2.31 mW/gMaximum value of SAR (measured) = 18.838 mW/g



0 dB = 18.840 mW/g

### System Check\_Head\_5300MHz\_150813

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: HSL\_5000\_150813 Medium parameters used: f = 5300 MHz;  $\sigma = 4.898$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.13

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

Ambient Temperature: 23.8 °C; Liquid Temperature: 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.97, 4.97, 4.97); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

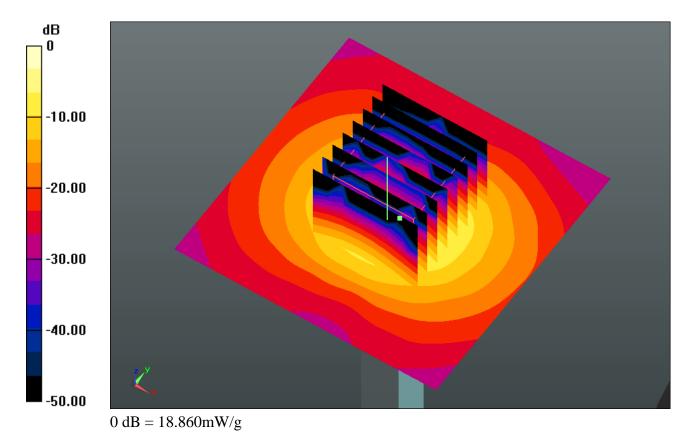
**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 19.475 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 43.415 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 33.007 W/kg

SAR(1 g) = 8.05 mW/g; SAR(10 g) = 2.29 mW/g

Maximum value of SAR (measured) = 18.860 mW/g



#### System Check\_Head\_5600MHz\_150813

#### **DUT: D5GHzV2 - SN:1113**

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

Medium: HSL\_5000\_150813 Medium parameters used: f = 5600 MHz;  $\sigma = 5.206$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.13

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

Ambient Temperature: 23.8 °C; Liquid Temperature: 22.9 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.63, 4.63, 4.63); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

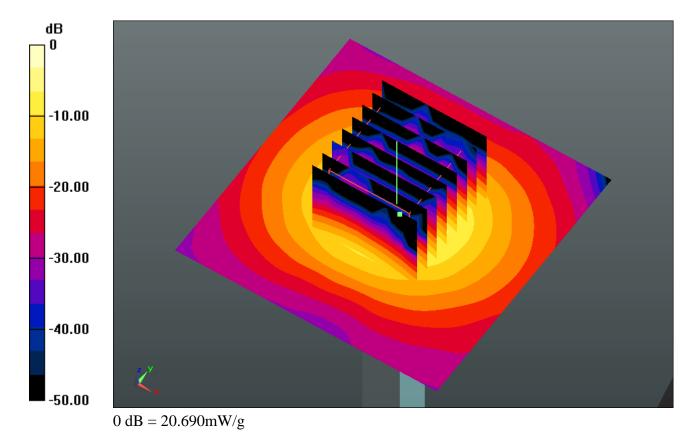
**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 20.203 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 43.154 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 36.477 W/kg

SAR(1 g) = 8.52 mW/g; SAR(10 g) = 2.45 mW/g

Maximum value of SAR (measured) = 20.691 mW/g



### System Check\_Head\_5800MHz\_150813

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: HSL\_5000\_150813 Medium parameters used: f = 5800 MHz;  $\sigma = 5.393$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.13

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

Ambient Temperature: 23.8 °C; Liquid Temperature: 22.6 °C

#### DASY5 Configuration:

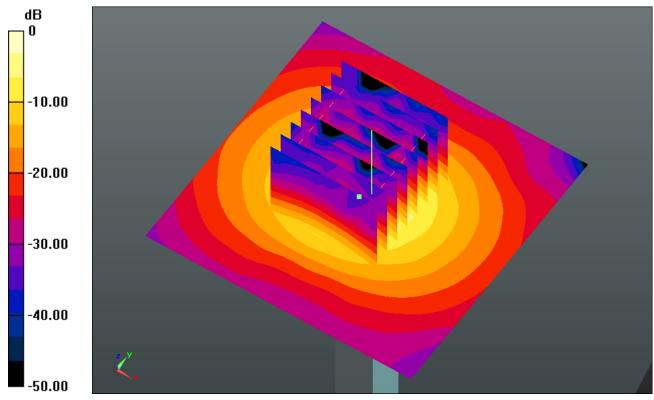
- Probe: EX3DV4 SN3857; ConvF(4.76, 4.76, 4.76); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 18.389 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 39.347 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 33.886 W/kg

SAR(1 g) = 7.65 mW/g; SAR(10 g) = 2.16 mW/gMaximum value of SAR (measured) = 18.791 mW/g



0 dB = 18.790 mW/g

#### System Check Body 750MHz 150817

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

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

Medium: MSL\_750\_150817 Medium parameters used: f = 750 MHz;  $\sigma = 0.967$  S/m;  $\epsilon_r = 53.993$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

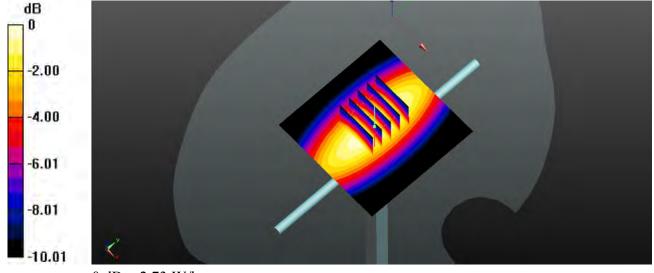
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.61, 9.61, 9.61); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.73 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 49.31 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.45 W/kgMaximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg

#### System Check Body 835MHz 150816

#### DUT: D835V2-SN:4d091

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

Medium: MSL\_835\_150816 Medium parameters used: f = 835 MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 53.68$ ;  $\rho = 0.97$  Medium:  $\epsilon_r = 53.68$ 

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

Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

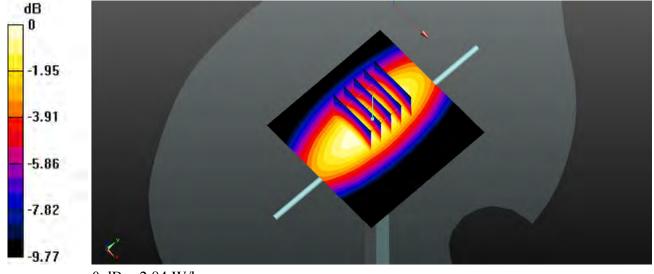
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.89 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 48.45 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.3 W/kg; SAR(10 g) = 1.55 W/kgMaximum value of SAR (measured) = 2.84 W/kg



0 dB = 2.84 W/kg

#### System Check Body 1750MHz 150813

#### **DUT: D1750V2-SN:1069**

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

Medium: MSL\_1750\_150813 Medium parameters used: f = 1750 MHz;  $\sigma$  = 1.517 S/m;  $\epsilon_r$  = 54.305;  $\rho$ 

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

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

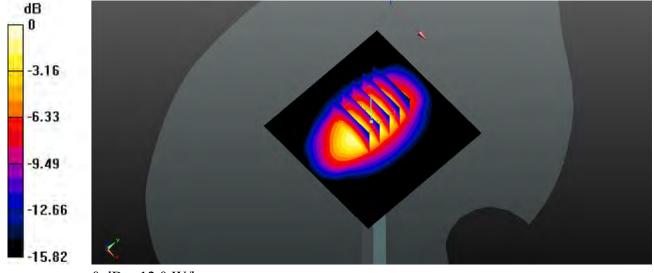
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 12.2 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 84.27 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 14.8 W/kg

SAR(1 g) = 8.88 W/kg; SAR(10 g) = 4.9 W/kgMaximum value of SAR (measured) = 12.0 W/kg



0 dB = 12.0 W/kg

#### System Check Body 1900MHz 150814

#### DUT: D1900V2-SN: 5d118

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

Medium: MSL\_1900\_150814 Medium parameters used: f = 1900 MHz;  $\sigma$  = 1.559 S/m;  $\epsilon_r$  = 53.099;  $\rho$ 

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

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

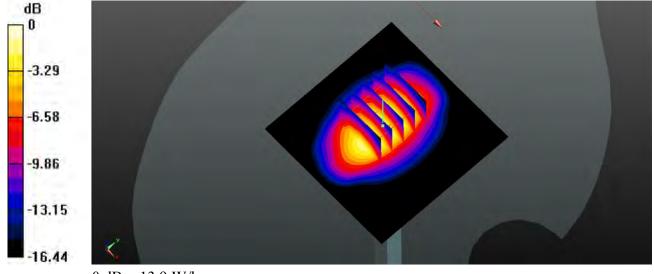
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.0 W/kg

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 79.03 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.4 W/kgMaximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg

#### System Check Body 2450MHz 150817

#### **DUT: D2450V2-SN:840**

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

Medium: MSL\_2450\_150817 Medium parameters used: f = 2450 MHz;  $\sigma = 1.949$  S/m;  $\epsilon_r = 53.894$ ;  $\rho$ 

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

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

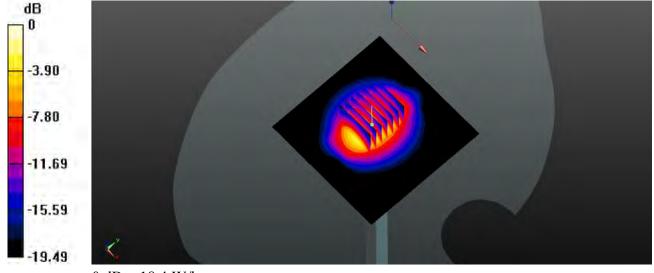
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 18.1 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 78.62 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 23.7 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 6.05 W/kgMaximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg

# System Check\_Body\_2450MHz\_150817

#### **DUT: D2450V2 - SN:840**

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

Medium: MSL\_2450\_150817 Medium parameters used: f = 2450 MHz;  $\sigma = 1.932$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

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

#### **DASY5** Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.29, 7.29, 7.29); Calibrated: 2015.05.28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

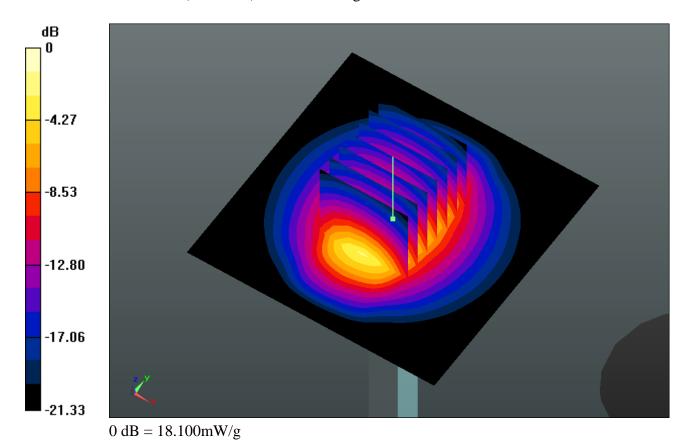
**Pin=250mW/Area Scan (71x71x1):** Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 18.636 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 84.670 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 23.793 W/kg

SAR(1 g) = 12.1 mW/g; SAR(10 g) = 5.86 mW/g

Maximum value of SAR (measured) = 18.103 mW/g



#### System Check Body 2600MHz 150809

#### **DUT: D2600V2-SN:1061**

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

Medium: MSL\_2600\_150809 Medium parameters used: f = 2600 MHz;  $\sigma = 2.189$  S/m;  $\epsilon_r = 51.328$ ;  $\rho$ 

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

Ambient Temperature: 23.9°C; Liquid Temperature: 22.6°C

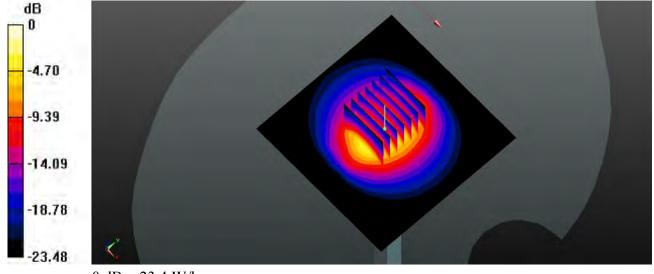
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 23.2 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 86.63 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 32.5 W/kg

SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.47 W/kgMaximum value of SAR (measured) = 23.4 W/kg



0 dB = 23.4 W/kg

# System Check\_Body\_5200MHz\_150817

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL\_5000\_150817 Medium parameters used: f = 5200 MHz;  $\sigma = 5.264$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.45, 4.45, 4.45); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

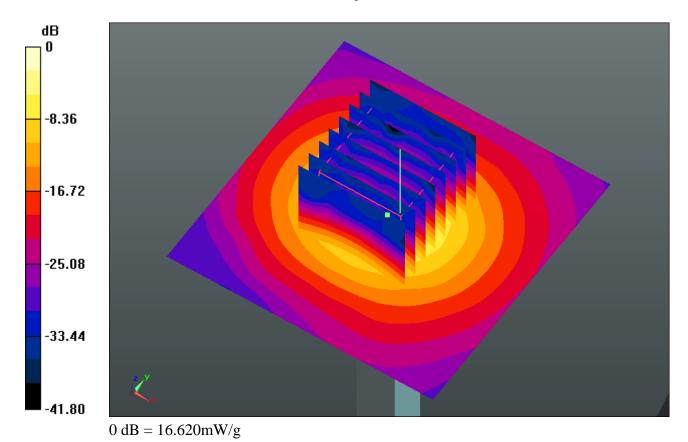
**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 16.756 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 40.832 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 28.680 W/kg

SAR(1 g) = 7.19 mW/g; SAR(10 g) = 2.01 mW/g

Maximum value of SAR (measured) = 16.619 mW/g



# System Check\_Body\_5300MHz\_150817

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: MSL\_5000\_150817 Medium parameters used: f = 5300 MHz;  $\sigma = 5.404$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.25, 4.25, 4.25); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

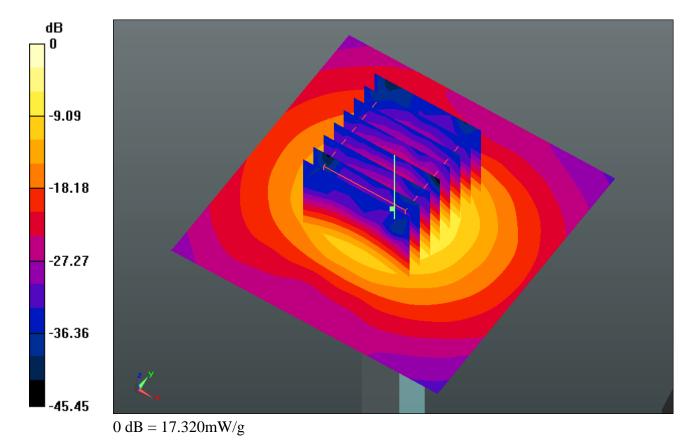
**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 18.118 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 40.687 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 30.431 W/kg

SAR(1 g) = 7.42 mW/g; SAR(10 g) = 2.05 mW/g

Maximum value of SAR (measured) = 17.322 mW/g



# System Check\_Body\_5600MHz\_150817

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: MSL\_5000\_150817 Medium parameters used: f = 5600 MHz;  $\sigma = 5.834$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

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

#### DASY5 Configuration:

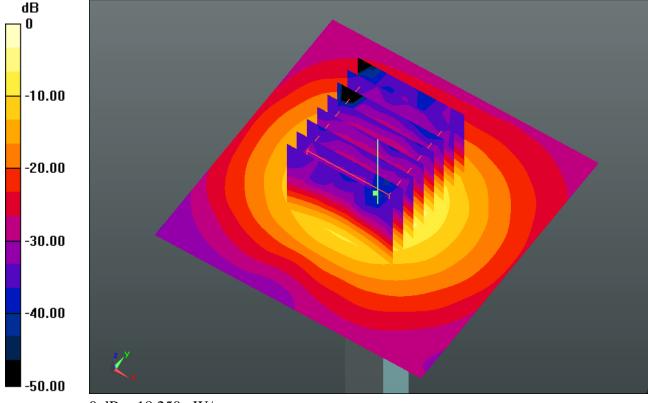
- Probe: EX3DV4 SN3857; ConvF(3.8, 3.8, 3.8); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 18.553 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 39.461 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 32.732 W/kg

SAR(1 g) = 7.6 mW/g; SAR(10 g) = 2.11 mW/gMaximum value of SAR (measured) = 18.248 mW/g

Maximum value of SAR (measured) = 18.248 mW/g



0 dB = 18.250 mW/g

# System Check\_Body\_5800MHz\_150817

#### **DUT: D5GHzV2 - SN:1113**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: MSL\_5000\_150817 Medium parameters used: f = 5800 MHz;  $\sigma = 6.096$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

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

#### DASY5 Configuration:

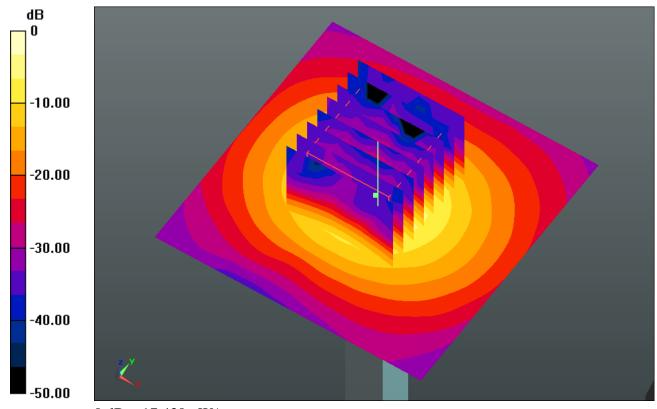
- Probe: EX3DV4 SN3857; ConvF(4.16, 4.16, 4.16); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Pin=100mW/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 17.783 mW/g

**Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 36.933 V/m; Power Drift = -0.0087 dB

Peak SAR (extrapolated) = 32.377 W/kg

SAR(1 g) = 7.13 mW/g; SAR(10 g) = 1.98 mW/gMaximum value of SAR (measured) = 17.432 mW/g



0 dB = 17.430 mW/g

# Appendix B. Plots of High SAR Measurement

Report No.: FA561105

The plots are shown as follows.

SPORTON INTERNATIONAL (XI'AN) INC.

# #01 GSM850\_GPRS (GMSK 4 Tx slot)\_Right Cheek\_Ch189

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 836.4 MHz; Duty

Date: 2015/8/17

Cycle: 1:2.08

Medium: HSL\_835\_150817 Medium parameters used: f = 836.4 MHz;  $\sigma = 0.914$  S/m;  $\varepsilon_r = 40.842$ ;  $\rho$ 

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

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.4 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.823 W/kg

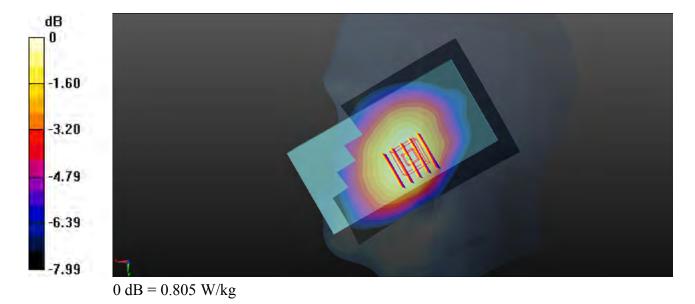
Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.07 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.869 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.570 W/kg

Maximum value of SAR (measured) = 0.805 W/kg



# #02 GSM1900\_GPRS (GMSK 4 Tx slot)\_Left Cheek\_Ch810

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 1909.8 MHz; Duty

Cycle: 1:2.08

Medium: HSL 1900 150815 Medium parameters used: f = 1909.8 MHz;  $\sigma = 1.455$  S/m;  $\varepsilon_r = 39.645$ ;  $\rho$ 

Date: 2015/8/15

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

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

# DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 0.408 W/kg

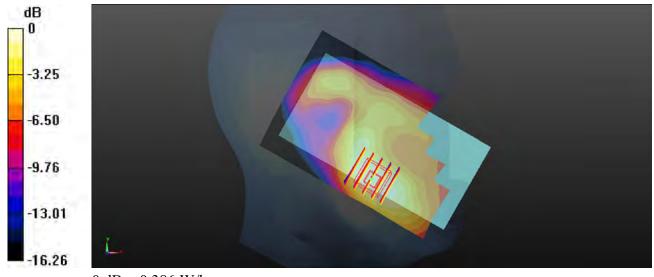
### Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.044 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.201 W/kg

Maximum value of SAR (measured) = 0.386 W/kg



0 dB = 0.386 W/kg

# #03 WCDMA Band V\_RMC 12.2Kbps\_Left Cheek\_Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1 Medium: HSL\_835\_150817 Medium parameters used: f = 836.4 MHz;  $\sigma = 0.914$  S/m;  $\epsilon_r = 40.842$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/17

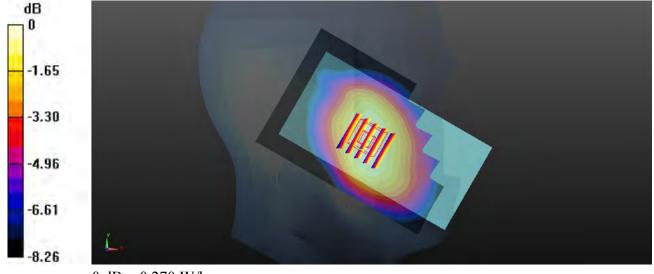
Ambient Temperature: 23.6°C; Liquid Temperature: 22.4°C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.62, 9.62, 9.62); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4182/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.274 W/kg

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.181 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 0.294 W/kg SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.188 W/kg Maximum value of SAR (measured) = 0.270 W/kg



0 dB = 0.270 W/kg

### #04 WCDMA Band IV\_RMC 12.2Kbps\_Left Cheek\_Ch1312

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

Medium: HSL\_1750\_150816 Medium parameters used: f = 1712.4 MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 41.29$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Date: 2015/8/16

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

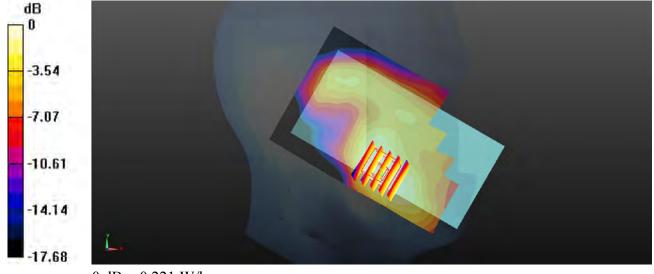
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch1312/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.236 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.400 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 0.254 W/kg SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.221 W/kg



0 dB = 0.221 W/kg

### #05 WCDMA Band II\_RMC 12.2Kbps\_Left Cheek\_Ch9400

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

Medium: HSL\_1900\_150815 Medium parameters used: f = 1880 MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 39.77$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/15

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

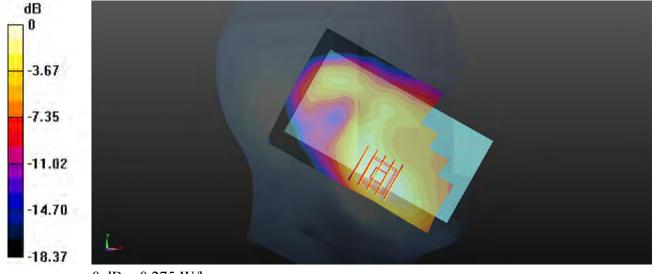
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.300 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.142 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.319 W/kg SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.275 W/kg



0 dB = 0.275 W/kg

### #06 LTE Band 17\_QPSK\_10M(1,49)\_Left Cheek\_Ch23800

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

Medium: HSL\_750\_150817 Medium parameters used: f = 711 MHz;  $\sigma = 0.875$  S/m;  $\varepsilon_r = 41.919$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Date: 2015/8/17

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

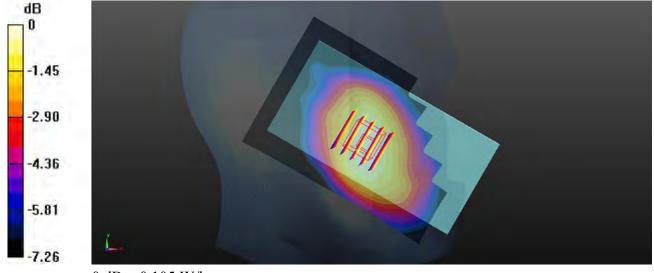
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.89, 9.89, 9.89); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23800/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.107 W/kg

Ch23800/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.308 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.113 W/kg SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.105 W/kg



0 dB = 0.105 W/kg

### #07 LTE Band 4\_QPSK\_20M(1,0)\_Right Cheek\_Ch20175

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

Medium: HSL\_1750\_150816 Medium parameters used: f = 1732.5 MHz;  $\sigma = 1.371$  S/m;  $\epsilon_r = 41.173$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/16

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

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

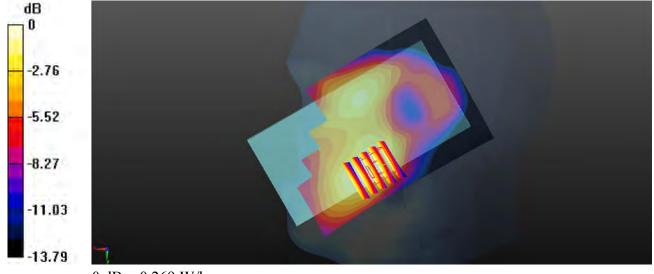
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(8.18, 8.18, 8.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch20175/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.264 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.782 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.154 W/kgMaximum value of SAR (measured) = 0.269 W/kg



0 dB = 0.269 W/kg

### #08 LTE Band 2 QPSK 20M(1,0) Left Cheek Ch18700

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

Medium: HSL\_1900\_150815 Medium parameters used: f = 1860 MHz;  $\sigma = 1.409$  S/m;  $\varepsilon_r = 39.834$ ;  $\rho$ 

Date: 2015/8/15

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

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

#### DASY5 Configuration:

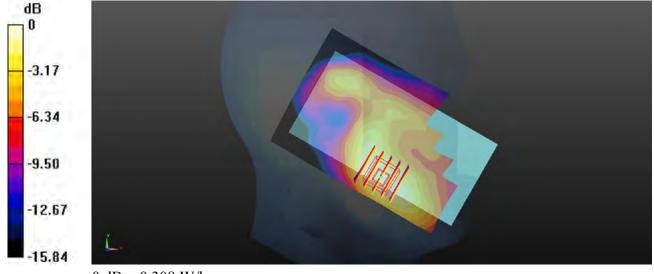
- Probe: EX3DV4 SN3911; ConvF(7.95, 7.95, 7.95); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18700/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.326 W/kg

**Ch18700/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.766 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.308 W/kg



0 dB = 0.308 W/kg

### #09 LTE Band 7 QPSK 20M(1,0) Left Cheek Ch21100

Communication System: UID 0, FDD-LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL\_2600\_150818 Medium parameters used: f = 2535 MHz;  $\sigma = 1.973$  S/m;  $\epsilon_r = 38.013$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Date: 2015/8/18

= 1000 kg/m<sup>3</sup>

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(6.92, 6.92, 6.92); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (81x151x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.0906 W/kg

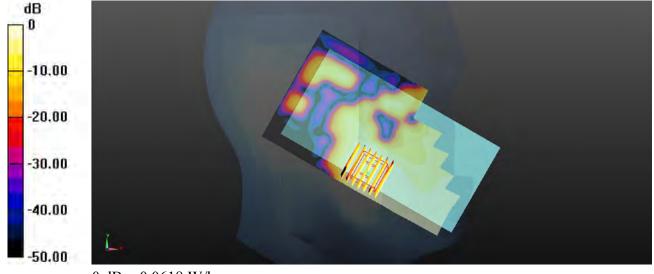
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.0780 W/kg

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

Maximum value of SAR (measured) = 0.0618 W/kg



0 dB = 0.0618 W/kg

### #10 WLAN 2.4GHz\_802.11b 1Mbps\_Left Cheek\_Ch6

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1.018 Medium: HSL\_2450\_150818 Medium parameters used: f = 2437 MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 37.738$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/18

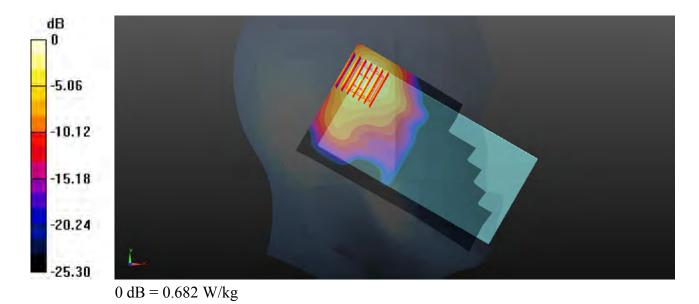
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

# DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.05, 7.05, 7.05); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch6/Area Scan (81x151x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.697 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.321 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.868 W/kg SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.245 W/kg Maximum value of SAR (measured) = 0.682 W/kg



# #11 WLAN 5.3GHz\_802.11a 6Mbps\_Left Cheek\_Ch56

Communication System: WIFI (0); Frequency: 5280 MHz; Duty Cycle: 1:1.139

Medium: HSL\_5000\_150813 Medium parameters used: f = 5280 MHz;  $\sigma = 4.881$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.16

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

Ambient Temperature: 23.0 °C; Liquid Temperature: 22.0 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.97, 4.97, 4.97); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

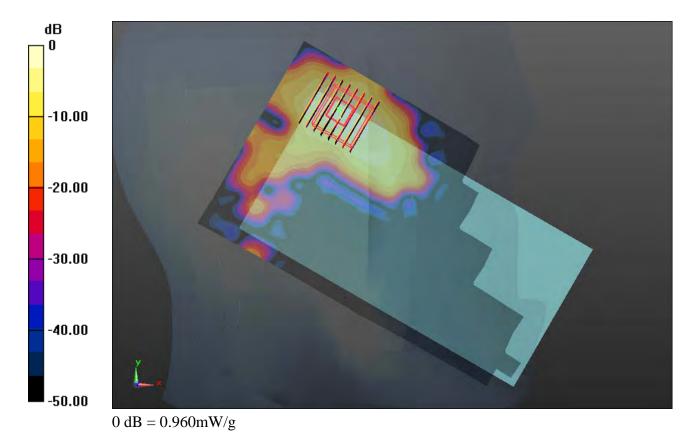
**Ch56/Area Scan (101x181x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.045 mW/g

**Ch56/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 1.228 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.786 W/kg

SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.960 mW/g



#### #12 WLAN 5.5GHz 802.11a 6Mbps Left Cheek Ch100

Communication System: WIFI (0); Frequency: 5500 MHz; Duty Cycle: 1:1.139

Medium: HSL\_5000\_150813 Medium parameters used: f = 5500 MHz;  $\sigma = 5.111$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.14

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

Ambient Temperature: 23.0 °C; Liquid Temperature: 22.0 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.63, 4.63, 4.63); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Ch100/Area Scan (101x181x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.689 mW/g

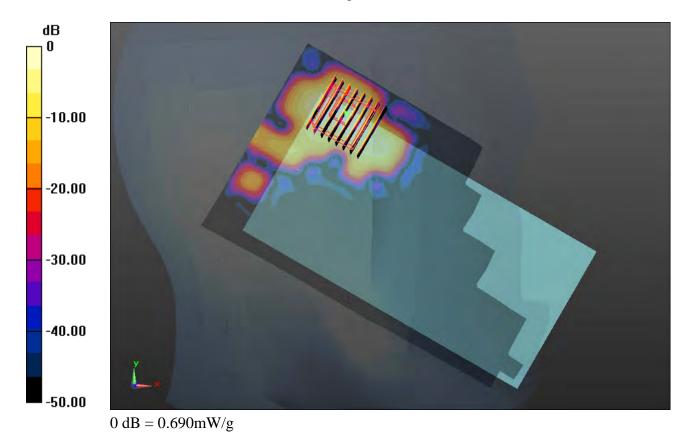
Ch100/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.183 W/kg

SAR(1 g) = 0.240 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (measured) = 0.687 mW/g



### #13 WLAN 5.8GHz\_802.11a 6Mbps\_Left Cheek\_Ch149

Communication System: WIFI (0); Frequency: 5745 MHz; Duty Cycle: 1:1.139

Medium: HSL\_5000\_150813 Medium parameters used : f = 5745 MHz;  $\sigma = 5.357$  mho/m;  $\epsilon_r =$ 

Date: 2015.08.14

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

Ambient Temperature: 23.0 °C; Liquid Temperature: 22.0 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.76, 4.76, 4.76); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Ch149/Area Scan (101x181x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.745 mW/g

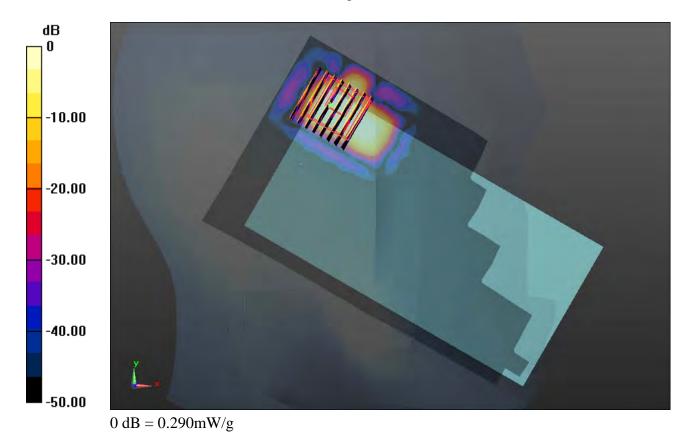
Ch149/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.512 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.034 mW/g

Maximum value of SAR (measured) = 0.295 mW/g



# #14 Bluetooth\_1Mbps\_DH5\_Left Cheek 0cm\_Ch39

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

Medium: HSL\_2450\_150817 Medium parameters used: f = 2441 MHz;  $\sigma = 1.809$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

Ambient Temperature: 23.0 °C; Liquid Temperature: 22.0 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.08, 7.08, 7.08); Calibrated: 2015.05.28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

Ch39/Area Scan (91x151x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.221 mW/g

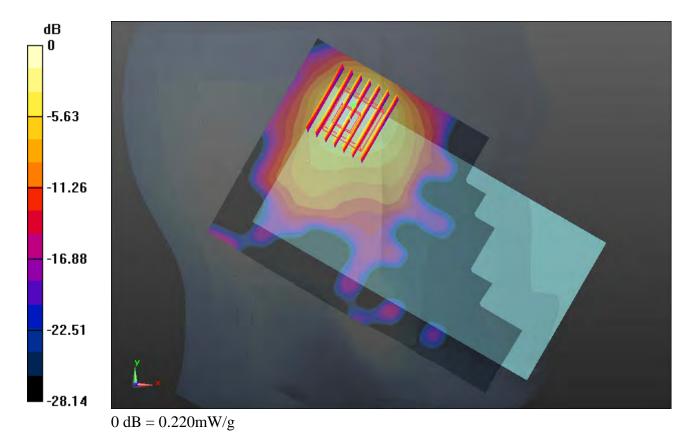
Ch39/Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.206 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.303 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.216 mW/g



### #15 GSM850\_GPRS (GMSK 4 Tx slots)\_Back\_1.0cm\_Ch189

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.08

Medium: MSL\_835\_150816 Medium parameters used: f = 836.4 MHz;  $\sigma = 0.972$  S/m;  $\epsilon_r = 53.666$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

# Ch189/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.26 W/kg

### Ch189/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.32 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.845 W/kg

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

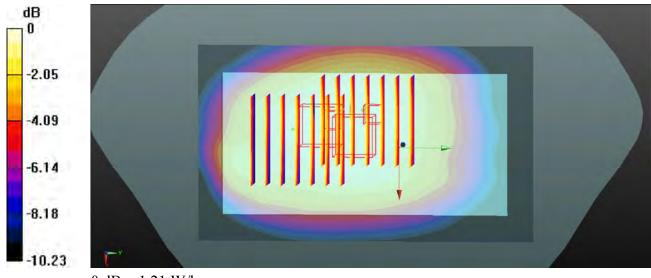
# Ch189/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.32 V/m: Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.32 W/kg

#### SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.830 W/kg

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg

### #16 GSM1900\_GPRS (GMSK 4 Tx slot)\_Bottom side\_1.0cm\_Ch810

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 1909.8 MHz; Duty

Cycle: 1:2.08

Medium: MSL\_1900\_150814 Medium parameters used: f = 1909.8 MHz;  $\sigma = 1.571$  S/m;  $\epsilon_r = 53.073$ ;  $\rho$ 

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

# Ch810/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.59 W/kg

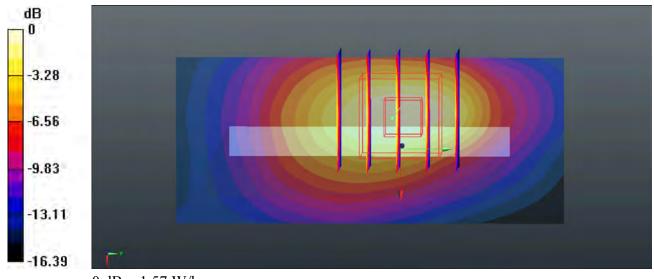
### Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.53 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.631 W/kg

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg

### #17 WCDMA Band V RMC12.2Kbps Back 1.0cm Ch4182

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

Medium: MSL\_835\_150816 Medium parameters used: f = 836.4 MHz;  $\sigma = 0.972$  S/m;  $\epsilon_r = 53.666$ ;  $\rho$ 

Date: 2015/8/16

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

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch4182/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.380 W/kg

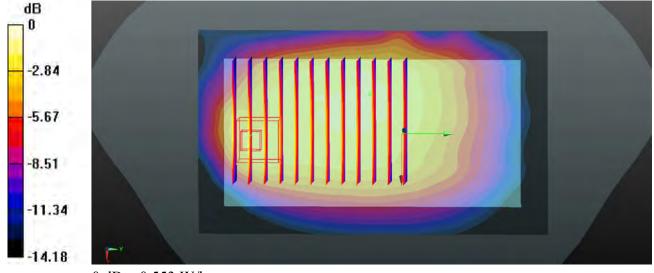
Ch4182/Zoom Scan (9x12x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.94 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.642 W/kg

SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.271 W/kg

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



0 dB = 0.553 W/kg

### #18 WCDMA Band IV RMC12.2Kbps Bottom side 1.0cm Ch1312

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

Medium: MSL 1750 150813 Medium parameters used: f = 1712.4 MHz;  $\sigma = 1.479$  S/m;  $\varepsilon_r = 54.458$ ;

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

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

# DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.832 W/kg

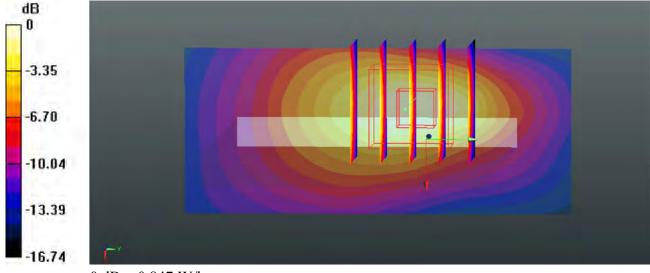
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.17 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.634 W/kg; SAR(10 g) = 0.344 W/kg

Maximum value of SAR (measured) = 0.847 W/kg



0 dB = 0.847 W/kg

### #19 WCDMA Band II RMC12.2Kbps Bottom side 1.0cm Ch9538

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: MSL\_1900\_150814 Medium parameters used: f = 1907.6 MHz;  $\sigma = 1.568$  S/m;  $\epsilon_r = 53.079$ ;  $\rho$ 

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

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

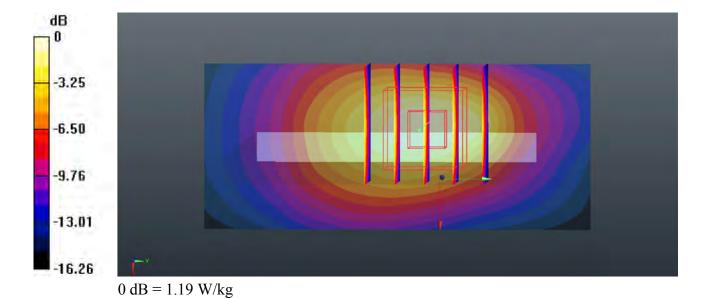
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9538/Area Scan (31x71x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.20 W/kg

**Ch9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 23.05 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.491 W/kgMaximum value of SAR (measured) = 1.19 W/kg



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

Medium: MSL\_750\_150817 Medium parameters used: f = 711 MHz;  $\sigma = 0.937$  S/m;  $\epsilon_r = 54.877$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Date: 2015/8/17

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

#### DASY5 Configuration:

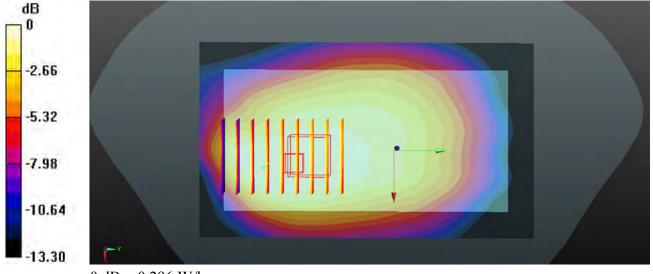
- Probe: EX3DV4 SN3911; ConvF(9.61, 9.61, 9.61); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch23800/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.334 W/kg

Ch23800/Zoom Scan (6x9x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 15.12 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.198 W/kgMaximum value of SAR (measured) = 0.296 W/kg



0 dB = 0.296 W/kg

### #21 LTE Band 4\_QPSK\_20M(1,0)\_Bottom side\_1.0cm\_Ch20175

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

Medium: MSL\_1750\_150813 Medium parameters used: f = 1732.5 MHz; σ = 1.499 S/m;  $ε_r = 54.388$ ;

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

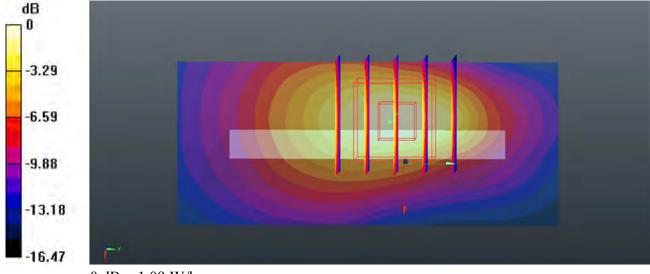
Ch20175/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.05 W/kg

**Ch20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 20.66 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.76 W/kg; SAR(10 g) = 0.447 W/kg

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



0 dB = 1.09 W/kg

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

Medium: MSL 1900 150814 Medium parameters used: f = 1900 MHz;  $\sigma = 1.559$  S/m;  $\epsilon_r = 53.099$ ;  $\rho$  $= 1000 \text{ kg/m}^3$ 

Date: 2015/8/14

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.15 W/kg

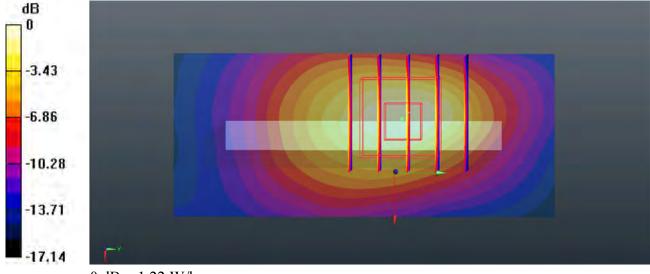
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.32 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.903 W/kg; SAR(10 g) = 0.490 W/kg

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



0 dB = 1.22 W/kg

### #23 LTE Band 7 QPSK 20M(1,0) Bottom side 1.0cm Ch21100

Communication System: UID 0, FDD-LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1 Medium: MSL 2600 150809 Medium parameters used: f = 2535 MHz;  $\sigma = 2.096$  S/m;  $\varepsilon_r = 51.59$ ;  $\rho$ 

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

Ambient Temperature: 23.9°C; Liquid Temperature: 22.6°C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

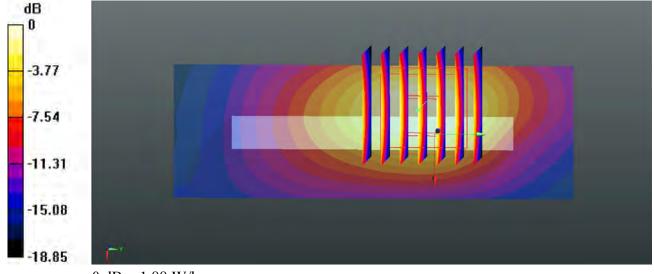
**Ch21100/Area Scan (31x91x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 2.28 W/kg

**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 20.15 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.664 W/kg

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg

### #24 WLAN 2.4GHz 802.11b 1Mbps Back 1.0cm Ch11

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1.018 Medium: MSL\_2450\_150817 Medium parameters used: f = 2462 MHz;  $\sigma = 1.974$  S/m;  $\epsilon_r = 53.843$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/17

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

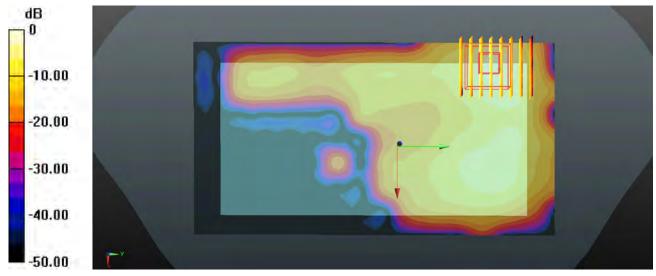
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.18, 7.18, 7.18); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch11/Area Scan (81x151x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.242 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.442 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.419 W/kg SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.097 W/kg

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



0 dB = 0.311 W/kg

#### #25 WLAN 5.2GHz 802.11a 6Mbps Back 1cm Ch48

Communication System: WIFI (0); Frequency: 5240 MHz; Duty Cycle: 1:1.139

Medium: MSL\_5000\_150817 Medium parameters used: f = 5240 MHz;  $\sigma = 5.325$  mho/m;  $\epsilon_r =$ 

Date: 2015.08.17

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

Ambient Temperature: 23.8°C; Liquid Temperature: 22.9°C

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.45, 4.45, 4.45); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

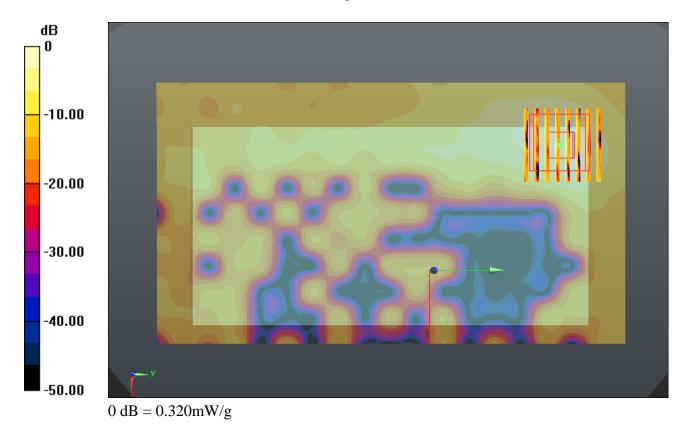
**Ch48/Area Scan (101x181x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.335 mW/g

**Ch48/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 1.223 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.324 mW/g



### #26 WLAN 5.8GHz\_802.11a 6Mbps \_Back 1cm\_Ch149

Communication System: WIFI (0); Frequency: 5745 MHz; Duty Cycle: 1:1.139

Medium: MSL\_5000\_150817 Medium parameters used: f = 5745 MHz;  $\sigma = 6.035$  mho/m;  $\epsilon_r =$ 

Date: 2015.08.17

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

Ambient Temperature: 23.0 °C; Liquid Temperature: 22.0 °C

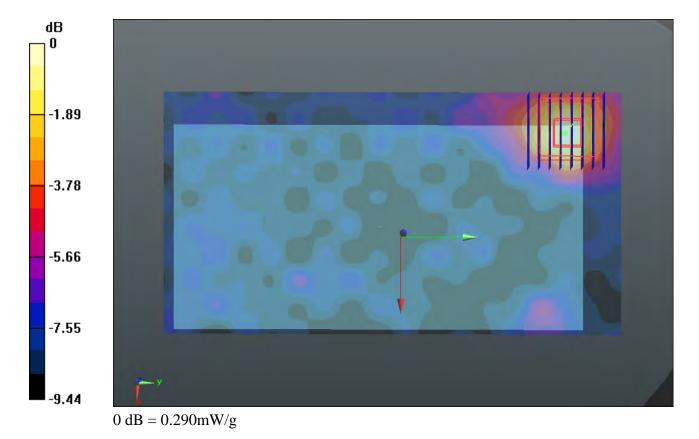
### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.16, 4.16, 4.16); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

**Ch149/Area Scan (91x171x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.299 mW/g

Ch149/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 2.838 V/m; Power Drift = 0.068 dB Peak SAR (extrapolated) = 0.494 W/kg SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.083 mW/g

Maximum value of SAR (measured) = 0.288 mW/g



### #27 Bluetooth\_1Mbps\_DH5\_Back 1cm\_Ch39

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

Medium: MSL\_2450\_150817 Medium parameters used: f = 2441 MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r =$ 

Date: 2015.08.17

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.29, 7.29, 7.29); Calibrated: 2015.05.28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

Ch39/Area Scan (91x151x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.091 mW/g

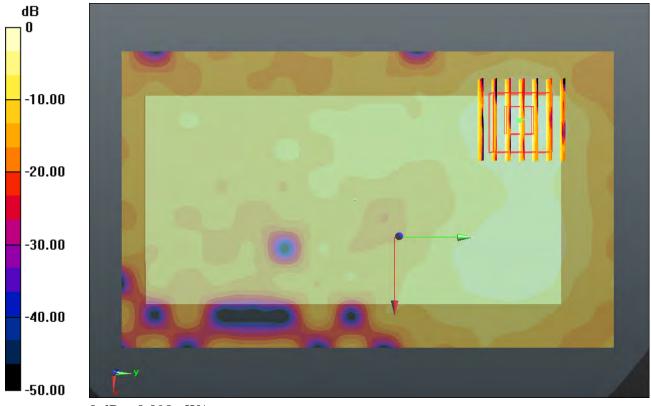
Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.882 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.086 mW/g



0 dB = 0.090 mW/g

### #28 GSM1900\_GPRS (GMSK 4 Tx slot)\_Front\_1.0cm\_Ch810

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 1909.8 MHz; Duty

Cycle: 1:2.08

Medium: MSL 1900 150814 Medium parameters used: f = 1909.8 MHz;  $\sigma = 1.571$  S/m;  $\varepsilon_r = 53.073$ ;  $\rho$ 

Date: 2015/8/14

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

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

# DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

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

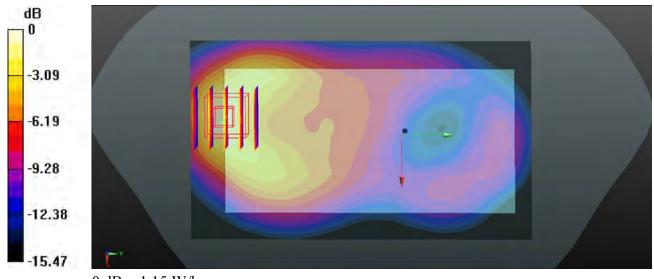
### Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.22 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.498 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg

### #29 WCDMA Band IV\_RMC12.2Kbps\_Front\_1.0cm\_Ch1312

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

Medium: MSL\_1750\_150813 Medium parameters used: f = 1712.4 MHz; σ = 1.479 S/m;  $ε_r = 54.458$ ;

Date: 2015/8/13

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

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1312/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

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

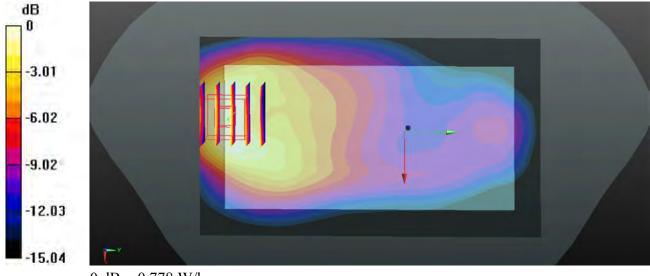
Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.648 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.336 W/kg

Maximum value of SAR (measured) = 0.778 W/kg



0 dB = 0.778 W/kg

### #30 WCDMA Band II RMC12.2Kbps Front 1.0cm Ch9538

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1 Medium: MSL\_1900\_150814 Medium parameters used: f = 1907.6 MHz;  $\sigma = 1.568$  S/m;  $\epsilon_r = 53.079$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/14

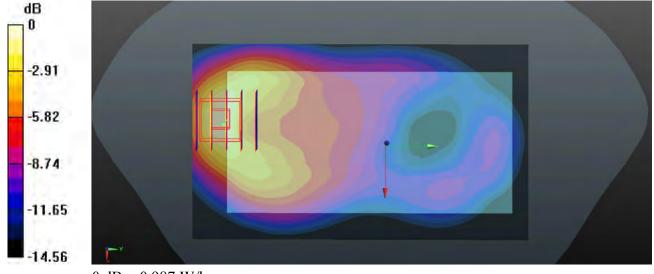
Ambient Temperature: 23.4°C; Liquid Temperature: 22.6°C

# DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch9538/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.995 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.538 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 1.17 W/kg SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.426 W/kg Maximum value of SAR (measured) = 0.987 W/kg



0 dB = 0.987 W/kg

### #31 LTE Band 4 QPSK 20M(1,0) Front 1.0cm Ch20175

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

Medium: MSL 1750 150813 Medium parameters used: f = 1732.5 MHz;  $\sigma = 1.499$  S/m;  $\varepsilon_r = 54.388$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Date: 2015/8/13

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

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.93, 7.93, 7.93); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20175/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.899 W/kg

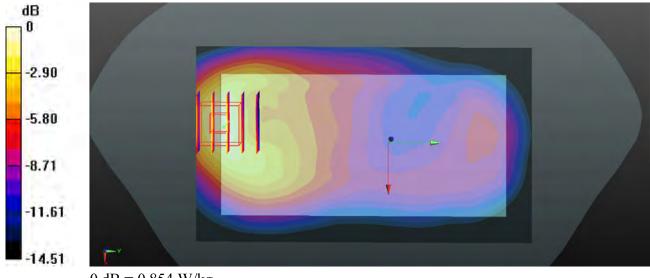
Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.908 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.409 W/kg

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



0 dB = 0.854 W/kg

### #32 LTE Band 2 QPSK 20M(1,0) Front 1.0cm Ch18900

Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium: MSL\_1900\_150814 Medium parameters used: f = 1880 MHz;  $\sigma = 1.536$  S/m;  $\epsilon_r = 53.149$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Date: 2015/8/14

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

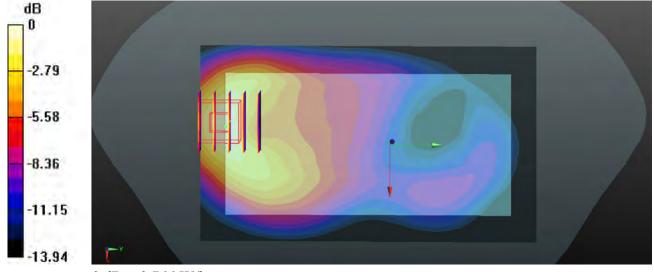
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch18900/Area Scan (71x121x1):** Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.785 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.555 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.976 W/kg SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.364 W/kg

Maximum value of SAR (measured) = 0.766 W/kg



0 dB = 0.766 W/kg

### #33 LTE Band 7 QPSK 20M(1,0) Back 1.0cm Ch21100

Communication System: UID 0, FDD-LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1 Medium: MSL\_2600\_150809 Medium parameters used: f = 2535 MHz;  $\sigma$  = 2.096 S/m;  $\epsilon_r$  = 51.59;  $\rho$ 

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

Ambient Temperature: 23.9°C; Liquid Temperature: 22.6°C

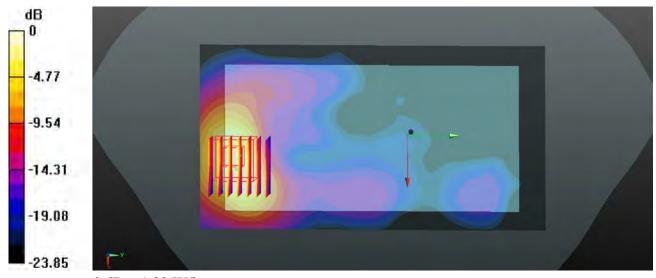
#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**Ch21100/Area Scan (81x151x1):** Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 1.92 W/kg

**Ch21100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 1.567 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.616 W/kgMaximum value of SAR (measured) = 1.82 W/kg



0 dB = 1.82 W/kg

### #34 WLAN 5.3GHz\_802.11a 6Mbps\_Back 1cm\_Ch64

Communication System: WIFI (0); Frequency: 5320 MHz; Duty Cycle: 1:1.139

Medium: MSL\_5000\_150817 Medium parameters used: f = 5320 MHz;  $\sigma = 5.434$  mho/m;  $\varepsilon_r =$ 

Date: 2015.08.17

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

Ambient Temperature: 23.0 °C; Liquid Temperature: 22.0 °C

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(4.25, 4.25, 4.25); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

Ch64/Area Scan (91x171x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.515 mW/g

Ch64/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.072 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.509 mW/g



#### #35 WLAN 5.5GHz 802.11a 6Mbps Back 1cm Ch100

Communication System: WIFI (0); Frequency: 5500 MHz; Duty Cycle: 1:1.139

Medium: MSL\_5000\_150817 Medium parameters used: f = 5500 MHz;  $\sigma = 5.7$  mho/m;  $\epsilon_r = 47.724$ ;

Date: 2015.08.17

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(3.8, 3.8, 3.8); Calibrated: 2015.05.28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2015.05.21
- Phantom: SAM2; Type: SAM; Serial: TP-1477
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.4.5 (3634)

Ch100/Area Scan (91x171x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.561 mW/g

Ch100/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.105 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.936 W/kg

SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.103 mW/g

Maximum value of SAR (measured) = 0.566 mW/g



### #36 GSM850 GPRS (GMSK 4 Tx slots) Back 0cm Ch189 Hand SAR

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 836.4 MHz; Duty

Cycle: 1:2.0797

Medium: MSL 835 150816 Medium parameters used: f = 836.4 MHz;  $\sigma = 0.972$  S/m;  $\varepsilon_r = 53.666$ ;  $\rho$ 

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

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(9.66, 9.66, 9.66); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/Area Scan (71x121x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.98 W/kg

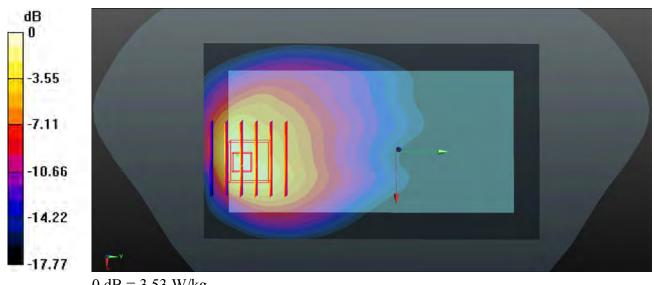
Ch189/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.49 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.74 W/kg

SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.43 W/kg

Maximum value of SAR (measured) = 3.53 W/kg



0 dB = 3.53 W/kg

Communication System: UID 0, GPRS/EDGE (GMSK 4 Tx slot) (0); Frequency: 1909.8 MHz; Duty

Cycle: 1:2.08

Medium: MSL\_1900\_150814 Medium parameters used: f = 1909.8 MHz;  $\sigma = 1.571$  S/m;  $\epsilon_r = 53.073$ ;  $\rho$ 

Date: 2015/8/14

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

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

### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.57, 7.57, 7.57); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (31x71x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 9.58 W/kg

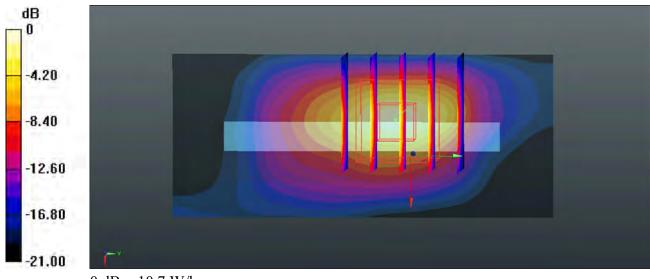
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.33 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 14.8 W/kg

SAR(1 g) = 7.44 W/kg; SAR(10 g) = 3.22 W/kg

Maximum value of SAR (measured) = 10.7 W/kg



0 dB = 10.7 W/kg

Communication System: UID 0, FDD-LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: MSL 2600 150809 Medium parameters used: f = 2535 MHz;  $\sigma = 2.096$  S/m;  $\varepsilon_r = 51.59$ ;  $\rho$  $= 1000 \text{ kg/m}^3$ 

Date: 2015/8/9

Ambient Temperature: 23.9°C; Liquid Temperature: 22.6°C

#### DASY5 Configuration:

- Probe: EX3DV4 SN3911; ConvF(7.03, 7.03, 7.03); Calibrated: 2014/10/2;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2015/4/13
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21100/Area Scan (31x91x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 5.96 W/kg

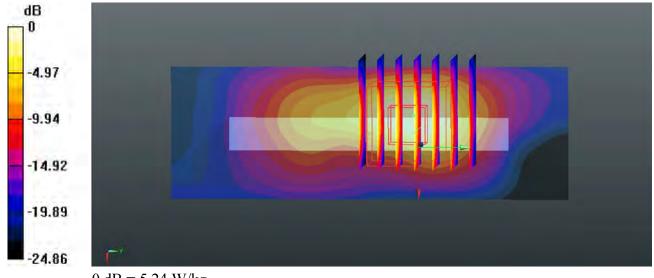
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 8.30 W/kg

SAR(1 g) = 3.55 W/kg; SAR(10 g) = 1.35 W/kg

Reference Value = 26.90 V/m; Power Drift = 0.07 dB

Maximum value of SAR (measured) = 5.24 W/kg



0 dB = 5.24 W/kg