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**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

**Glossary:**

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

**Calibration is Performed According to the Following Standards:**

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

- DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz $\pm$ 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	37.3 $\pm$ 6 %	2.05 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.7 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	57.1 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.62 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	26.0 W/kg $\pm$ 16.5 % (k=2)

### Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	51.9 $\pm$ 6 %	2.22 mho/m $\pm$ 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

### SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	14.3 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	56.4 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.40 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	25.4 W/kg $\pm$ 16.5 % (k=2)

**Appendix (Additional assessments outside the scope of SCS 0108)****Antenna Parameters with Head TSL**

Impedance, transformed to feed point	48.2 $\Omega$ - 5.4 j $\Omega$
Return Loss	- 24.8 dB

**Antenna Parameters with Body TSL**

Impedance, transformed to feed point	45.1 $\Omega$ - 4.0 j $\Omega$
Return Loss	- 23.5 dB

**General Antenna Parameters and Design**

Electrical Delay (one direction)	1.153 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

**Additional EUT Data**

Manufactured by	SPEAG
Manufactured on	October 30, 2007

## DASY5 Validation Report for Head TSL

Date: 21.07.2015

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1012**

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.05$  S/m;  $\epsilon_r = 37.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.49, 4.49, 4.49); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

### Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

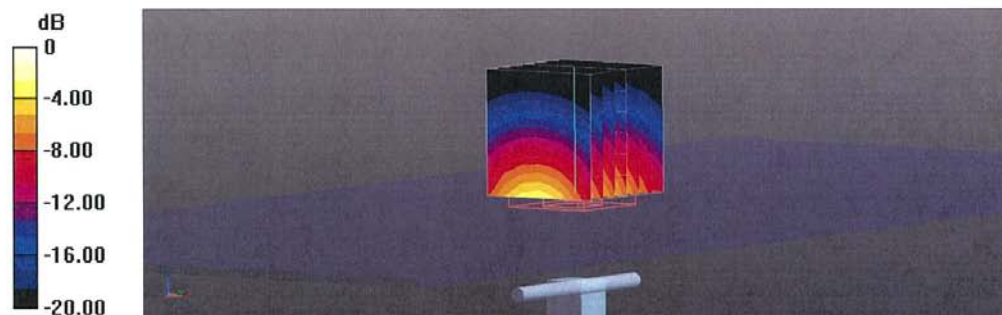
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.6 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 30.8 W/kg

**SAR(1 g) = 14.7 W/kg; SAR(10 g) = 6.62 W/kg**

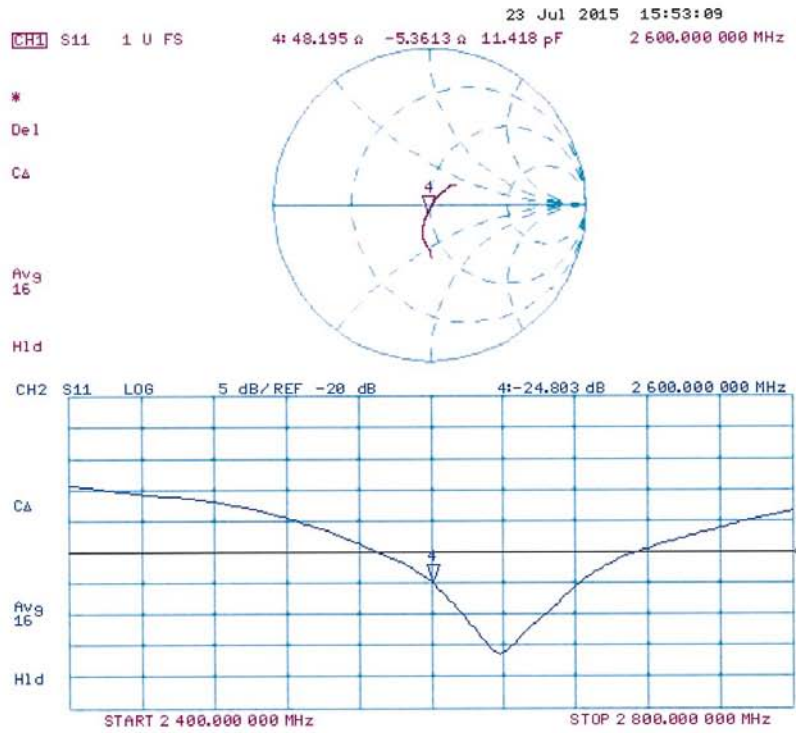
Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg



### Impedance Measurement Plot for Head TSL



## DASY5 Validation Report for Body TSL

Date: 24.07.2015

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1012**

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.22$  S/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.13, 4.13, 4.13); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

### Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

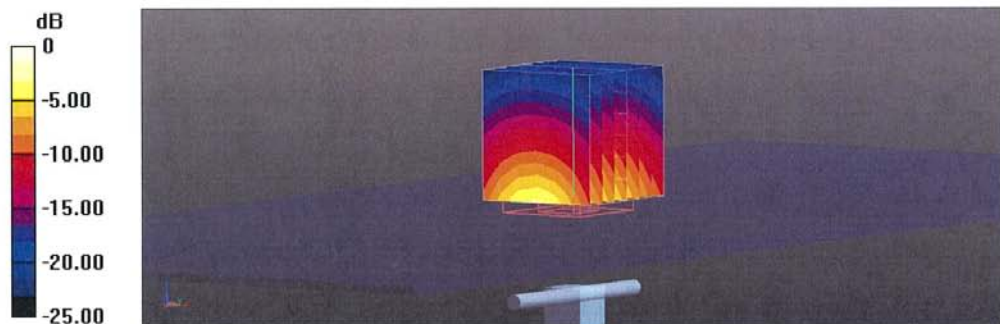
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.86 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 29.5 W/kg

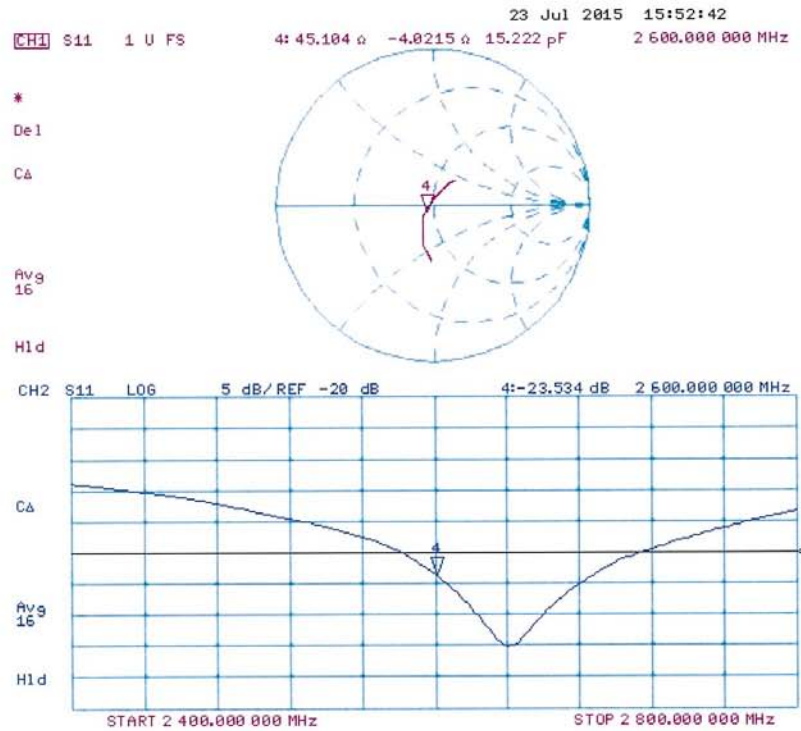
**SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.4 W/kg**

Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.2 W/kg = 12.83 dBW/kg

### Impedance Measurement Plot for Body TSL



## ANNEX I SPOT CHECK TEST

As the test lab for 5051J from TCL Communication Ltd, we, CTTL (Shouxiang), declare on our sole responsibility that, according to “Declaration of changes” provided by applicant, only the Spot check test should be performed. The test results are as below.

### I.1 Conducted power of selected case

**Table I.1: The conducted power results for GSM850/1900**

GSM 850MHz	Conducted Power (dBm)		
	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)
	32.98	\	\
GSM 1900MHz	Conducted Power (dBm)		
	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)
	30.48	\	\

**Table I.2: The conducted power results for GPRS**

GSM 850 GPRS (GMSK)	Measured Power (dBm)		
	251	190	128
3 Txslots	30.68	\	\
PCS1900 GPRS (GMSK)	Measured Power (dBm)		
	810	661	512
4 Txslots	\	27.75	\

**Table I.3: The conducted Power for WCDMA**

Item	band	FDDV result		
	ARFCN	4233 (846.6MHz)	4182 (836.4MHz)	4132 (826.4MHz)
WCDMA	\	\	24.30	24.26
Item	band	FDDII result		
	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)
WCDMA	\	23.01	\	22.84

**Table I.4: The conducted Power for LTE**

LTE Band2 20MHz 1RB-Low (50)	1900 (19100)	23.65
	1880 (18900)	23.60
	1860 (18700)	\
LTE Band4 20MHz 1RB-Low (0)	1745 (20300)	23.35
	1732.5 (20175)	\
	1720 (20050)	23.30
LTE Band7 20MHz 1RB-Low (99) AP OFF	2560 (21350)	\
	2535 (21100)	22.26
	2510 (20850)	\
LTE Band7 20MHz 1RB-Low (99) AP ON	2560 (21350)	17.63
	2535 (21100)	\
	2510 (20850)	\
LTE Band13 10MHz 1RB-Low (0)	782 (23230)	23.54
LTE Band17 10MHz 1RB-High (0)	711 (23800)	23.65
	710 (23790)	\
	709 (23780)	\



## I.2 Measurement results

**Table I.2-1: SAR Values (GSM 850 MHz Band - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
848.8	251	Left	Touch	Fig.1	32.98	33.3	0.247	<b>0.27</b>	0.321	<b>0.35</b>	-0.01

**Table I.2-2: SAR Values (GSM 850 MHz Band - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
848.8	251	GPRS (3)	Rear	Fig.2	30.68	30.7	0.365	<b>0.37</b>	0.467	<b>0.47</b>	-0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

**Table I.2-3: SAR Values (GSM 1900 MHz Band - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1909.8	810	Left	Touch	Fig.3	30.48	30.5	0.126	<b>0.13</b>	0.21	<b>0.21</b>	0.10

**Table I.2-4: SAR Values (GSM 1900 MHz Band - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1880	661	GPRS (3)	Rear	Fig.4	27.75	27.8	0.49	<b>0.50</b>	0.936	<b>0.95</b>	-0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

**Table I.2-5: SAR Values (WCDMA 850 MHz Band - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
836.4	4182	Left	Touch	Fig.5	24.30	24.5	0.198	<b>0.21</b>	0.26	<b>0.27</b>	0.11

**Table I.2-6: SAR Values (WCDMA 850 MHz Band - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C				
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
826.4	4132	Rear	Fig.6	24.26	24.5	0.311	<b>0.33</b>	0.401	<b>0.42</b>	-0.11

Note1: The distance between the EUT and the phantom bottom is 10mm.

**Table I.2-7: SAR Values (WCDMA 1900 MHz Band - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1907.6	9538	Right	Touch	Fig.7	23.01	23.5	0.181	0.20	0.304	0.34	0.14

**Table I.2-8: SAR Values (WCDMA 1900 MHz Band - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C				
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
1852.4	9662	Bottom	Fig.8	22.84	23.5	0.391	<b>0.46</b>	0.745	<b>0.87</b>	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

**Table I.2-9: SAR Values (LTE Band2 - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
1800	18900	1RB_Low	Left	Touch	Fig.9	23.60	23.7	0.212	<b>0.22</b>	0.345	<b>0.35</b>	-0.15

Note1: The LTE mode is QPSK\_20MHz.

**Table I.2-10: SAR Values (LTE Band2 - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1900	19100	1RB_Low	Bottom	Fig.10	23.65	23.7	0.52	<b>0.53</b>	0.972	<b>0.98</b>	-0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table I.2-11: SAR Values (LTE Band4 - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
1745	20300	1RB_Low	Left	Touch	Fig.11	23.35	24.0	0.0827	<b>0.10</b>	0.162	<b>0.19</b>	0.08

Note1: The LTE mode is QPSK\_20MHz.

**Table I.2-12: SAR Values (LTE Band4 - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No.	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1720	20050	1RB_Low	Bottom	Fig.12	23.30	24.0	0.436	<b>0.51</b>	0.826	<b>0.97</b>	-0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table I.2-13: SAR Values (LTE Band7 - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
2535	21100	1RB_Low	Left	Touch	Fig.13	22.26	22.6	0.0682	<b>0.07</b>	0.128	<b>0.14</b>	0.15

Note1: The LTE mode is QPSK\_20MHz.

**Table I.2-14: SAR Values (LTE Band7 - Body) – AP OFF**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2535	21100	1RB_Low	Bottom	Fig.14	22.26	22.6	0.313	<b>0.34</b>	0.591	<b>0.64</b>	0.12

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table I.2-15: SAR Values (LTE Band7 - Body) – AP ON**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2560	21350	1RB_Low	Bottom	Fig.15	17.63	18.5	0.366	<b>0.45</b>	0.803	<b>0.98</b>	-0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table I.2-16: SAR Values (LTE Band13 - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
782	23230	1RB_Low	Left	Touch	Fig.16	23.54	24.2	0.227	<b>0.26</b>	0.296	<b>0.34</b>	0.03

Note1: The LTE mode is QPSK\_10MHz.

**Table I.2-17: SAR Values (LTE Band13 - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
782	23230	1RB_Low	Rear	Fig.17	23.54	24.2	0.303	<b>0.35</b>	0.408	<b>0.47</b>	-0.12

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_10MHz.

**Table I.2-18: SAR Values (LTE Band17 - Head)**

Ambient Temperature: 22.9 °C      Liquid Temperature: 22.5 °C												
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g)(W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
711	23800	1RB_High	Right	Touch	Fig.18	23.65	24.2	0.148	<b>0.17</b>	0.19	<b>0.22</b>	0.01

Note1: The LTE mode is QPSK\_10MHz.

**Table I.2-19: SAR Values (LTE Band17 - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
711	23800	1RB_High	Rear	Fig.18	23.65	24.2	0.189	<b>0.21</b>	0.261	<b>0.30</b>	-0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_10MHz.

### I.3 Reported SAR Comparison

Exposure Configuration	Technology Band	Reported SAR 1g (W/Kg): spot check	Reported SAR 1g (W/Kg): original
Head (Separation Distance 0mm)	GSM 850	0.35	0.35
	PCS 1900	0.21	0.37
	WCDMA 850	0.27	0.34
	WCDMA 1900	0.34	0.34
	LTE Band2	0.35	0.47
	LTE Band4	0.19	0.21
	LTE Band7	0.14	0.17
	LTE Band13	0.34	0.41
	LTE Band17	0.22	0.22
Body-worn (Data) (Separation Distance 10mm)	GSM 850	0.47	0.67
	PCS 1900	0.95	1.31
	WCDMA 850	0.42	0.49
	WCDMA 1900	0.87	1.15
	LTE Band2	0.98	1.20
	LTE Band4	0.97	1.04
	LTE Band7	0.98	1.26
	LTE Band13	0.47	0.56
	LTE Band17	0.30	0.41
Body-worn (Data) (Separation Distance 15mm)	LTE Band7	0.64	0.86



### 850 Left Cheek High

Date: 2016-4-2

Electronics: DAE4 Sn777

Medium: Head 850 MHz

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.939$  mho/m;  $\epsilon_r = 41.022$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3617 ConvF(9.56, 9.56, 9.56)

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.348 W/kg

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

Reference Value = 6.964 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.394 W/kg

**SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.247 W/kg**

Maximum value of SAR (measured) = 0.354 W/kg

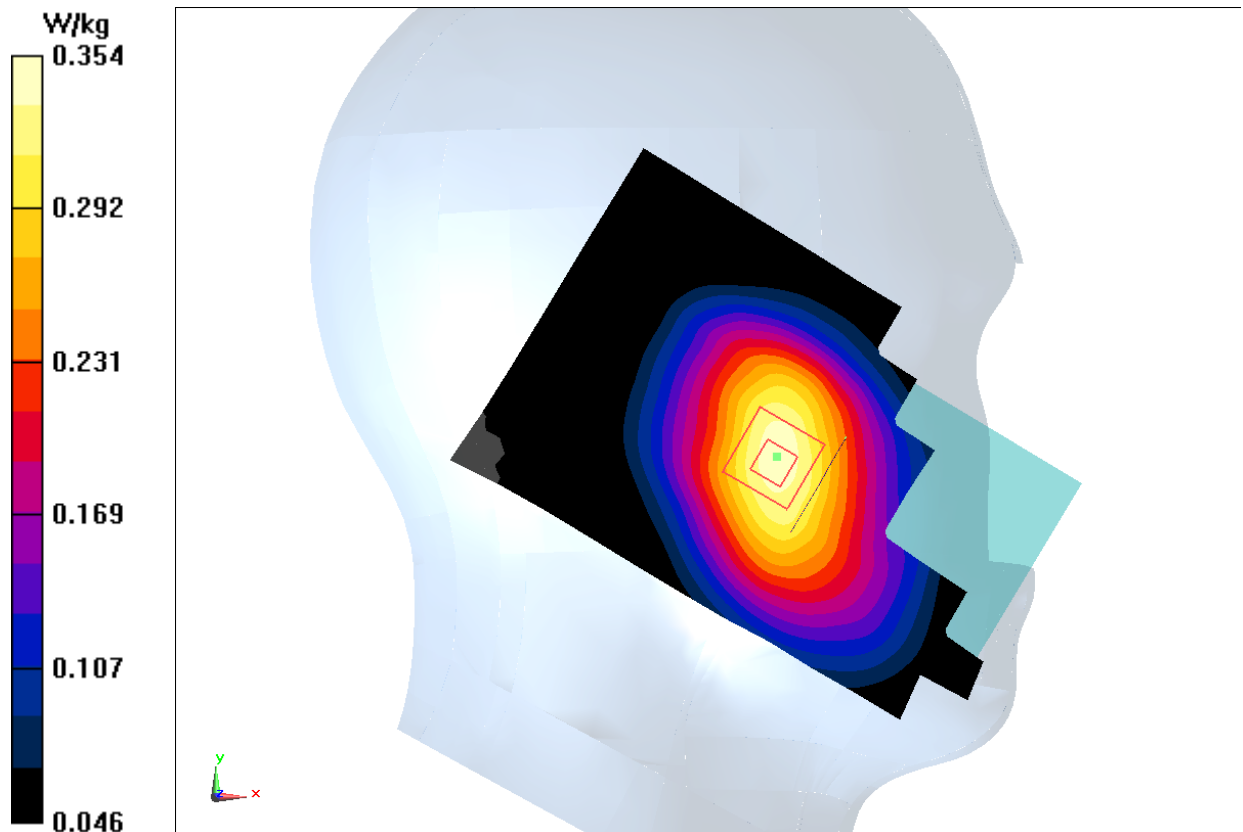


Fig.1 850MHz

### 850 Body Rear High

Date: 2016-4-2

Electronics: DAE4 Sn777

Medium: Body 850 MHz

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.956$  mho/m;  $\epsilon_r = 56.311$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 - SN3617 ConvF(9.71, 9.71, 9.71)

**Area Scan (121x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.507 W/kg

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

Reference Value = 22.10 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.585 W/kg

**SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.365 W/kg**

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

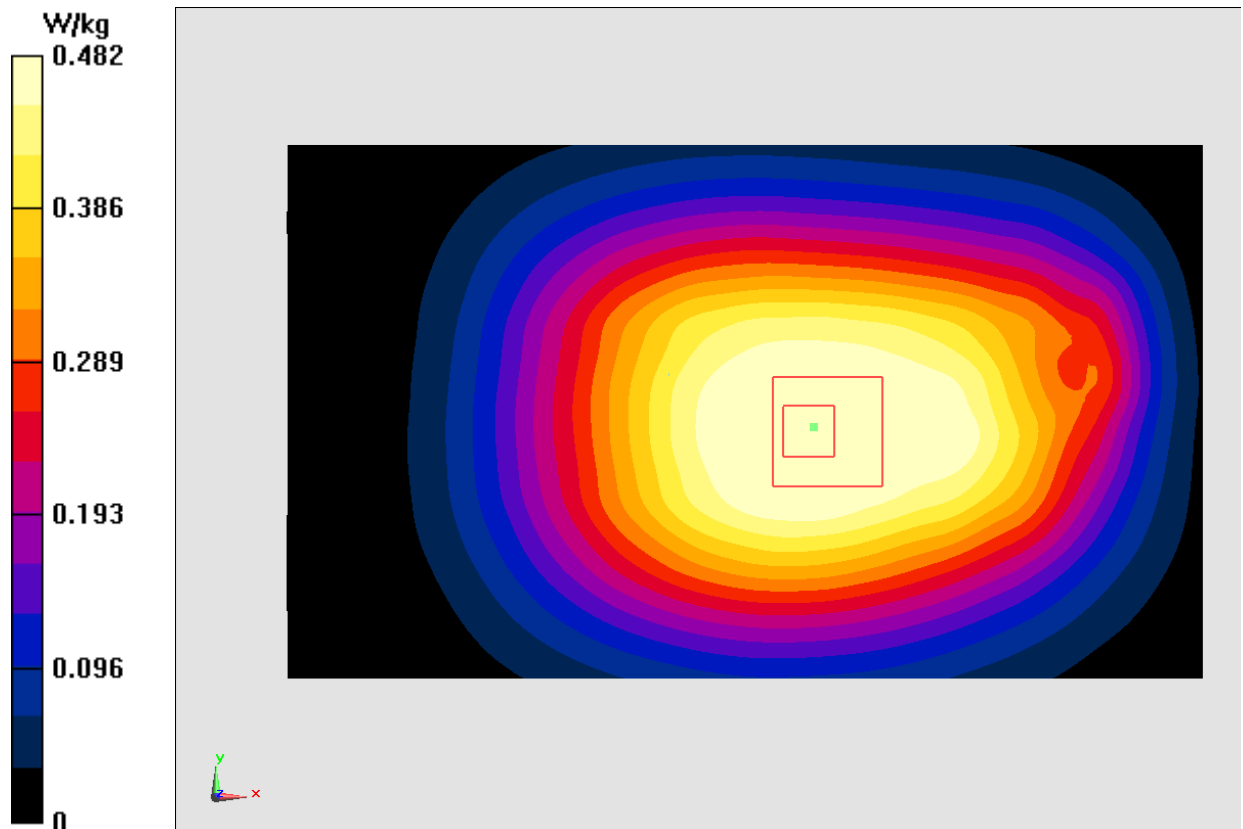


Fig.2 850 MHz

### 1900 Left Cheek High

Date: 2016-4-4

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.446$  mho/m;  $\epsilon_r = 38.761$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3617 ConvF(8.07, 8.07, 8.07)

**Area Scan (71x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.292 W/kg

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

Reference Value = 5.588 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.325 W/kg

**SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.126 W/kg**

Maximum value of SAR (measured) = 0.272 W/kg

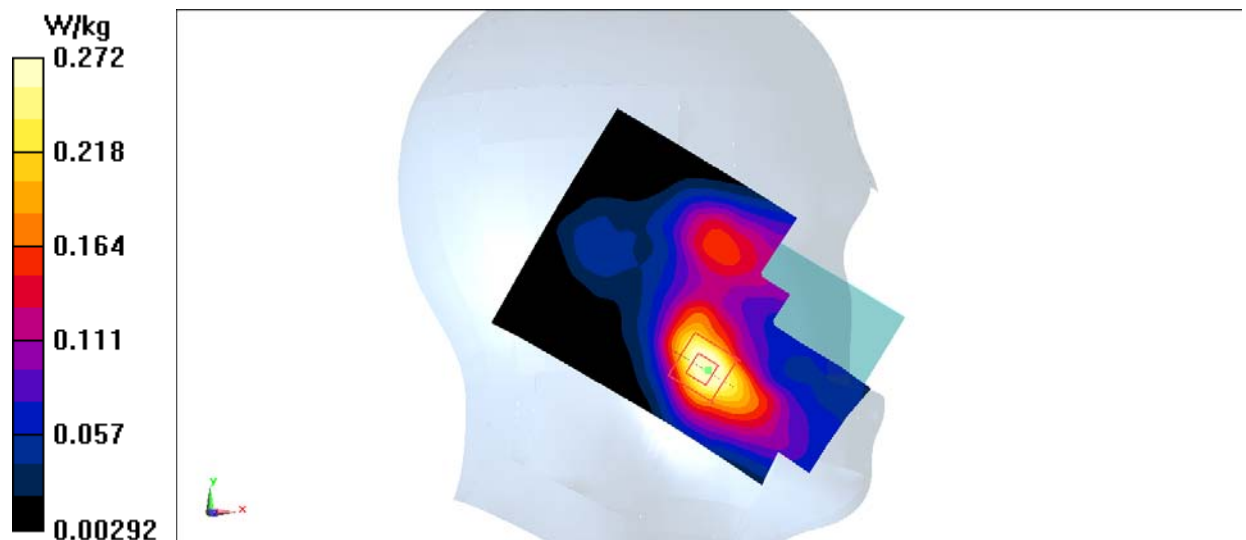


Fig.3 1900 MHz

### 1900 Body Bottom Middle

Date: 2016-4-4

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.536$  mho/m;  $\epsilon_r = 55.083$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2.67

Probe: EX3DV4 - SN3617 ConvF(7.74, 7.74, 7.74)

**Area Scan (121x71x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

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

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

Reference Value = 24.75 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.936 W/kg; SAR(10 g) = 0.490 W/kg**

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

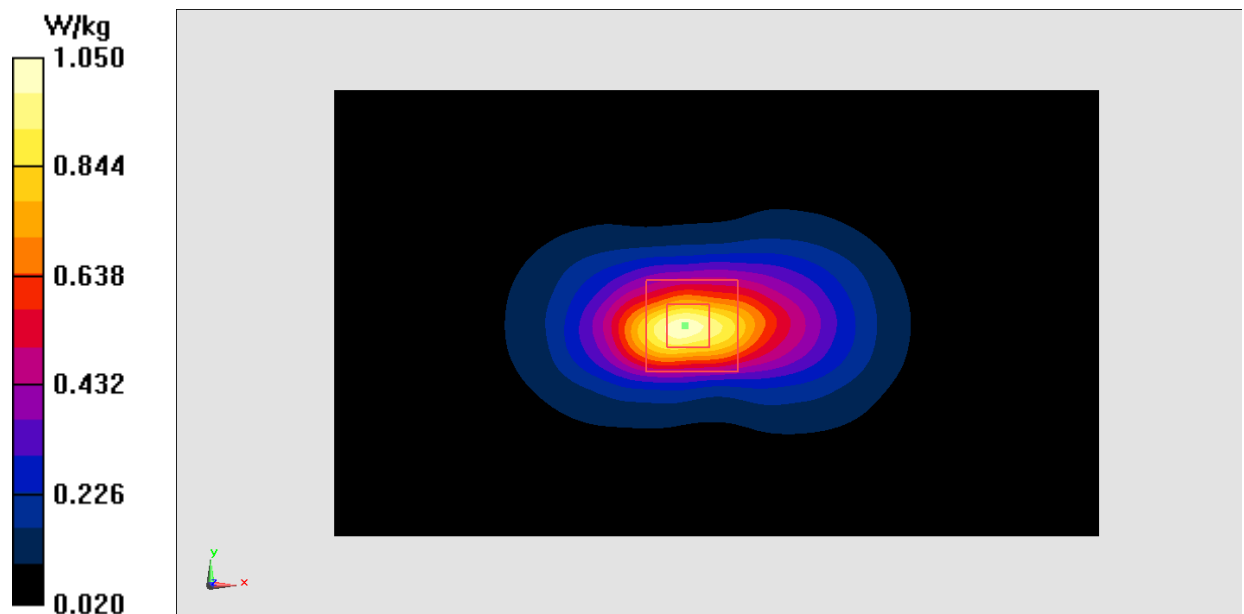


Fig.4 1900 MHz

### WCDMA 850 Left Cheek Middle

Date: 2016-4-2

Electronics: DAE4 Sn777

Medium: Head 850 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.939$  mho/m;  $\epsilon_r = 41.495$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

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

Probe: EX3DV4 - SN3617 ConvF(9.56, 9.56, 9.56)

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.279 W/kg

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

Reference Value = 5.704 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.331 W/kg

**SAR(1 g) = 0.260 W/kg; SAR(10 g) = 0.198 W/kg**

Maximum value of SAR (measured) = 0.292 W/kg

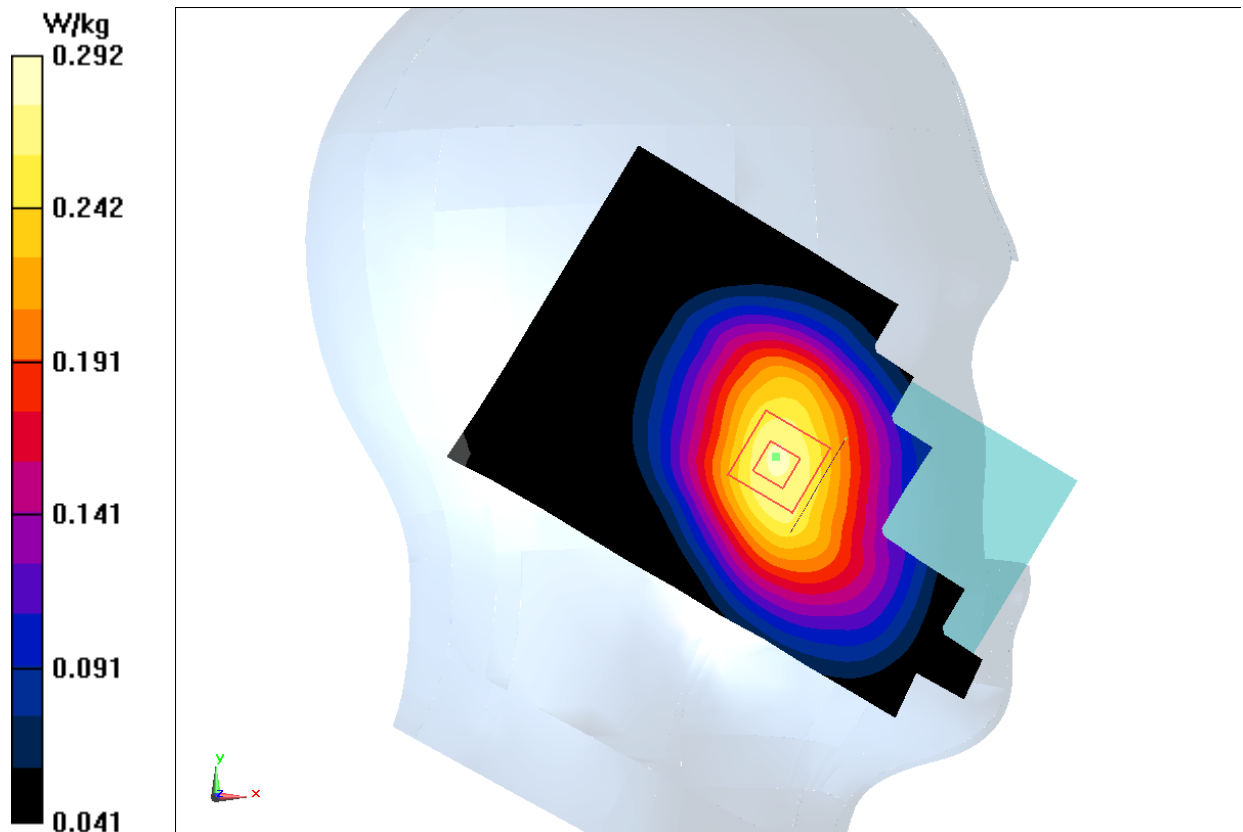


Fig.5 WCDMA 850



## WCDMA 850 Body Rear Low

Date: 2016-4-2

Electronics: DAE4 Sn777

Medium: Body 850 MHz

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.929$  mho/m;  $\epsilon_r = 57.16$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(9.71, 9.71, 9.71)

**Area Scan (121x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.432 W/kg

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

Reference Value = 20.25 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.500 W/kg

**SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.311 W/kg**

Maximum value of SAR (measured) = 0.417 W/kg

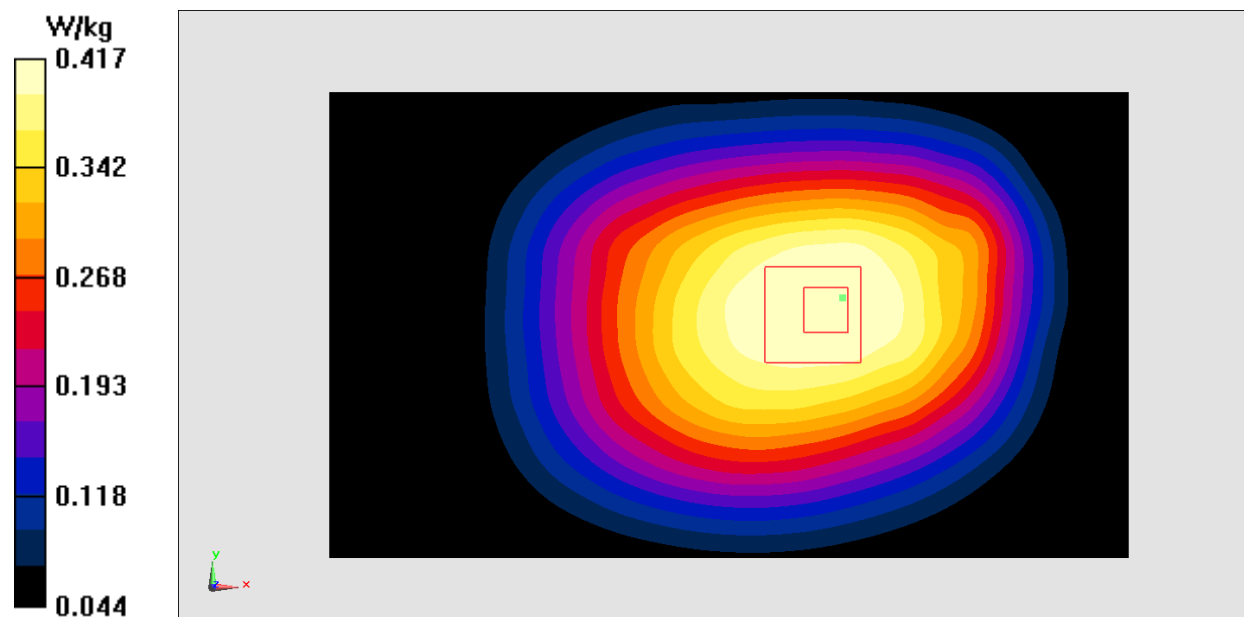


Fig.6 WCDMA 850

## WCDMA 1900 Left Cheek High

Date: 2016-4-4

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.435$  mho/m;  $\epsilon_r = 38.866$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(8.07, 8.07, 8.07)

**Area Scan (71x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.409 W/kg

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

Reference Value = 6.841 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.472 W/kg

**SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.181 W/kg**

Maximum value of SAR (measured) = 0.397 W/kg

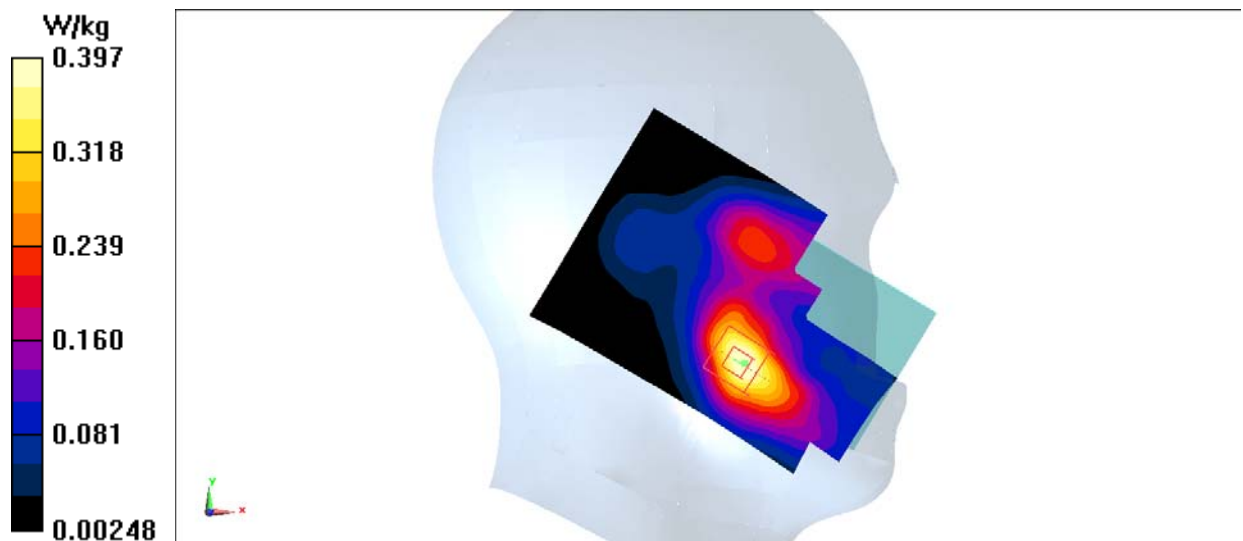


Fig.7 WCDMA1900

## WCDMA 1900 Body Bottom Low

Date: 2016-4-4

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.495$  mho/m;  $\epsilon_r = 55.591$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.74, 7.74, 7.74)

**Area Scan (121x71x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.809 W/kg

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

Reference Value = 21.97 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.391 W/kg**

Maximum value of SAR (measured) = 0.840 W/kg

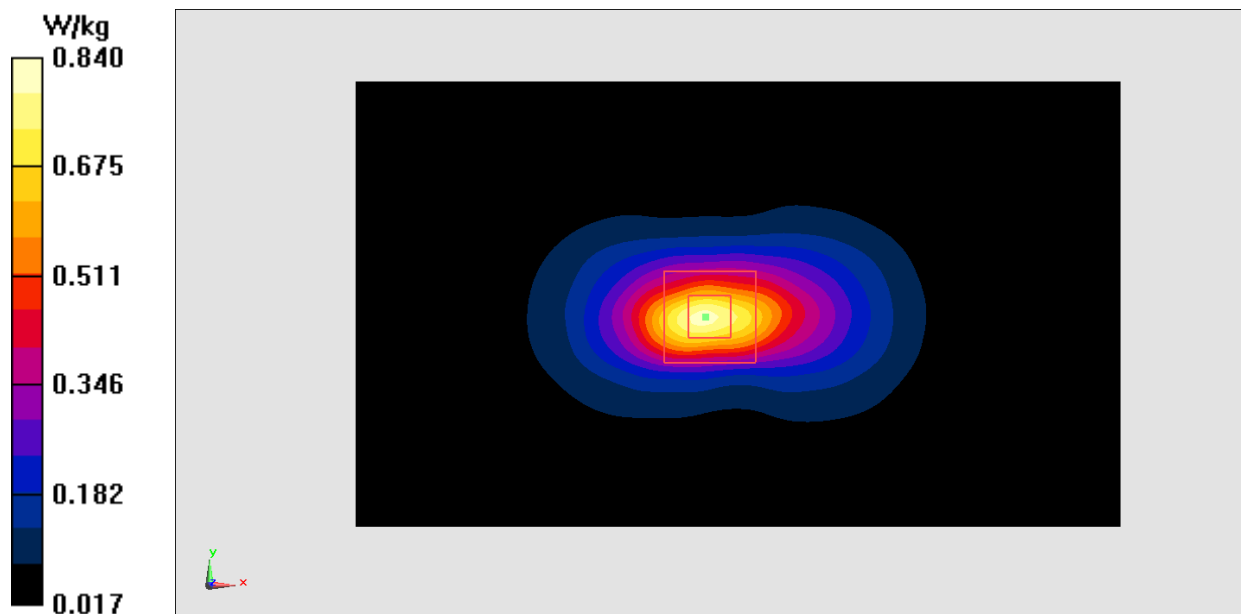


Fig.8 WCDMA1900

### LTE Band2 Left Cheek Middle with QPSK\_20M\_1RB\_Low

Date: 2016-4-4

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.422$  mho/m;  $\epsilon_r = 38.89$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band2 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(8.07, 8.07, 8.07)

**Area Scan (71x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.412 W/kg

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

Reference Value = 5.700 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.528 W/kg

**SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.212 W/kg**

Maximum value of SAR (measured) = 0.410 W/kg

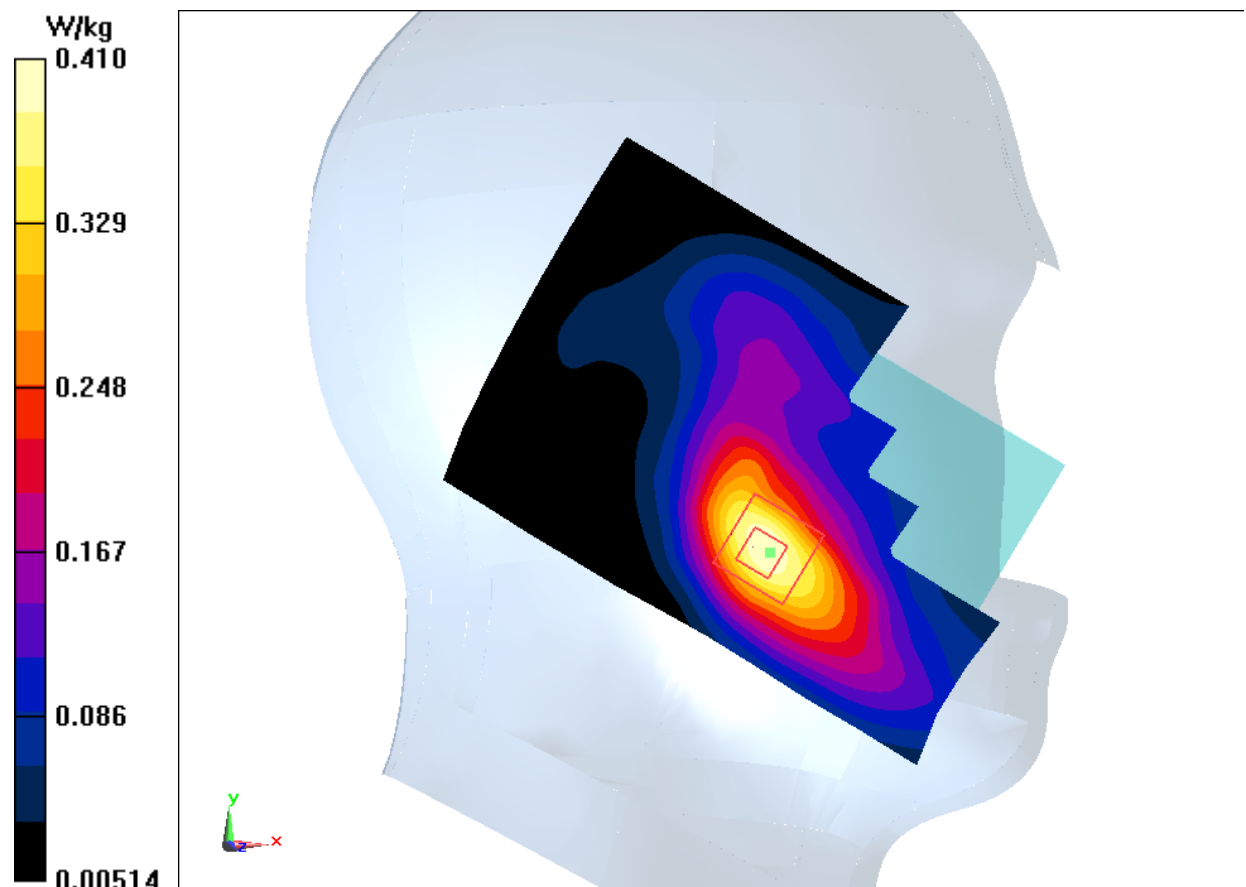


Fig.9 LTE Band2

### LTE Band2 Body Bottom High with QPSK\_20M\_1RB\_Low

Date: 2016-4-4

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.568$  mho/m;  $\epsilon_r = 54.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band4 Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.74, 7.74, 7.74)

**Area Scan (121x71x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.996 W/kg

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

Reference Value = 24.19 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.520 W/kg**

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

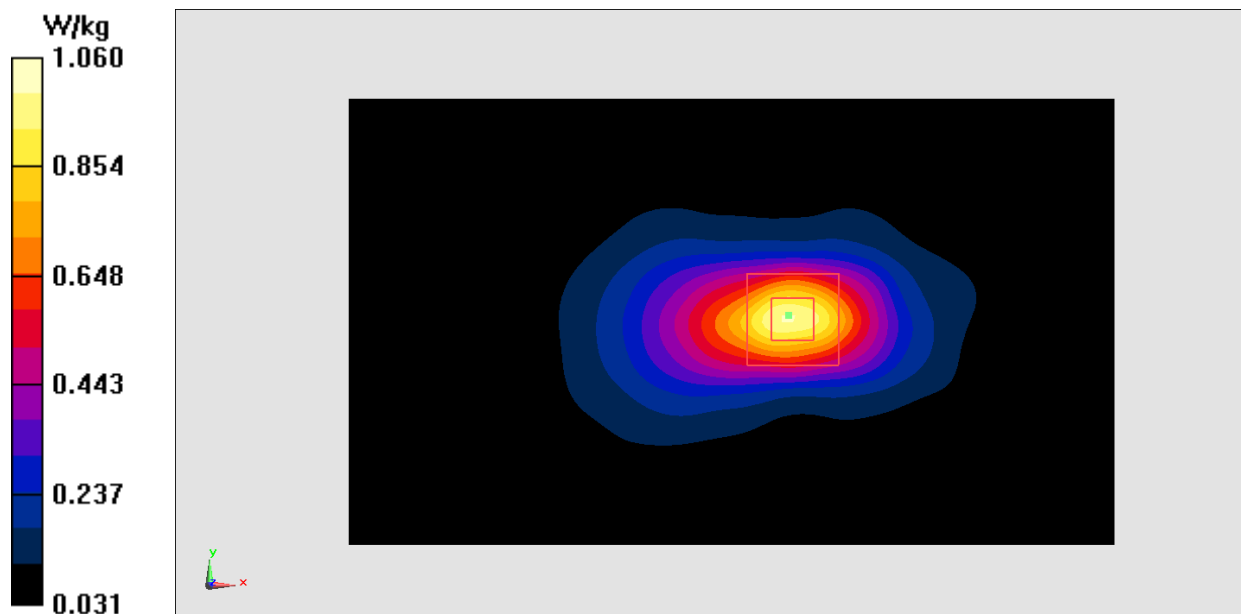


Fig.10 LTE Band2



### LTE Band4 Left Cheek High with QPSK\_20M\_1RB\_Low

Date: 2016-3-29

Electronics: DAE4 Sn777

Medium: Head 1750 MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.321$  mho/m;  $\epsilon_r = 41.33$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: LTE Band4 Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(8.34, 8.34, 8.34)

**Area Scan (71x111x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.241 W/kg

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

Reference Value = 3.948 V/m; Power Drift = 0.08dB

Peak SAR (extrapolated) = 0.307 W/kg

**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.083 W/kg**

Maximum value of SAR (measured) = 0.240 W/kg

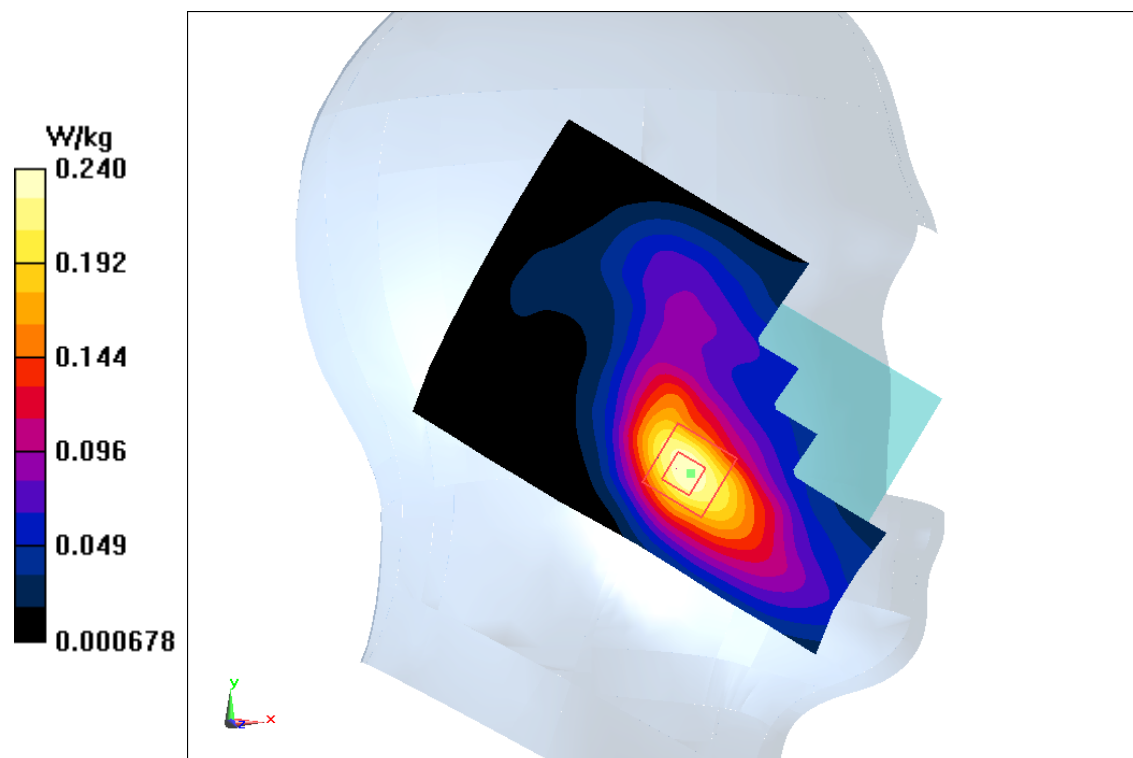


Fig.11 LTE Band4

### LTE Band4 Body Bottom Low with QPSK\_20M\_1RB\_Low

Date: 2016-3-29

Electronics: DAE4 Sn777

Medium: Body 1750 MHz

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.425$  mho/m;  $\epsilon_r = 55.86$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band4 Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.96, 7.96, 7.96)

**Area Scan (121x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.996 W/kg

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

Reference Value = 20.56 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.436 W/kg**

Maximum value of SAR (measured) = 0.942 W/kg

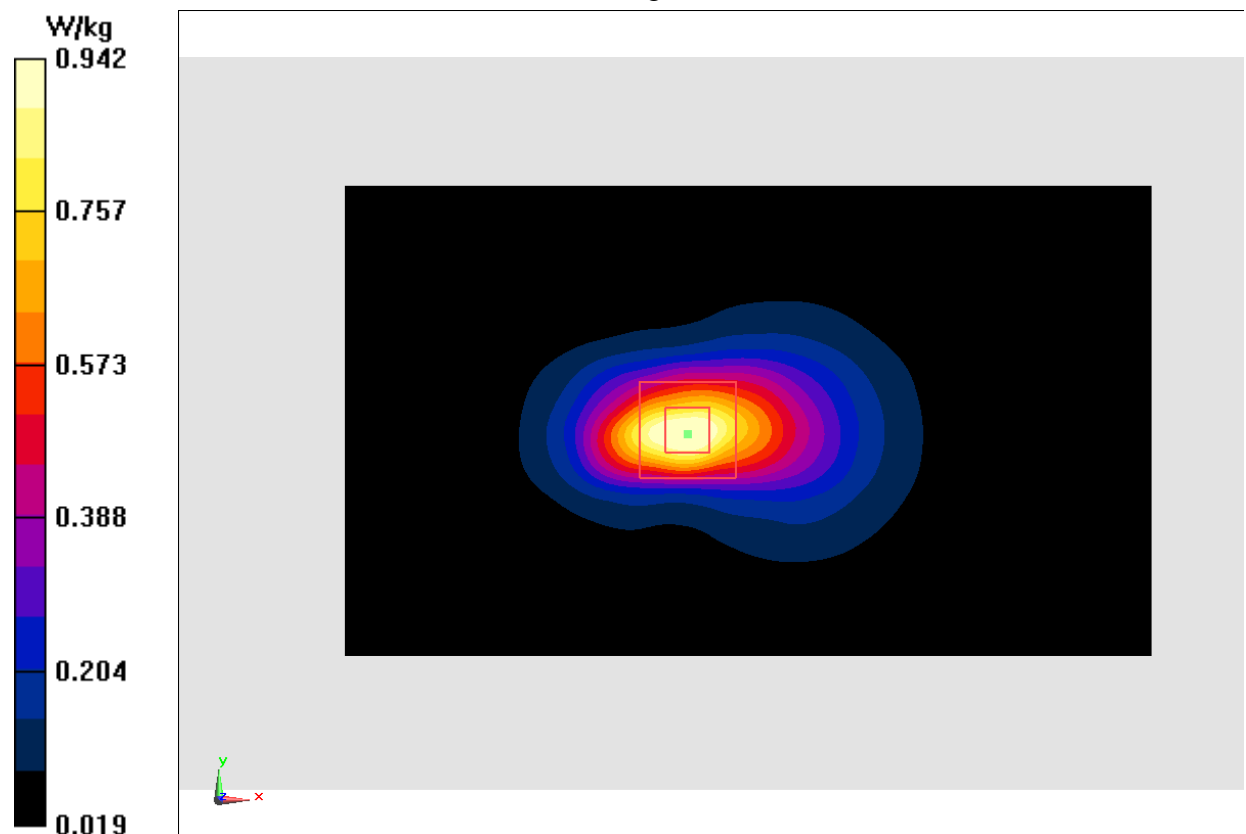


Fig.12 LTE Band4

### LTE Band7 Left Cheek Middle with QPSK\_20M\_1RB\_Low

Date: 2016-4-1

Electronics: DAE4 Sn777

Medium: Head 2600 MHz

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.865$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band7 Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.21, 7.21, 7.21)

**Area Scan (91x141x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.169 W/kg

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

Reference Value = 1.913 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.238 W/kg

**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.068 W/kg**

Maximum value of SAR (measured) = 0.157 W/kg

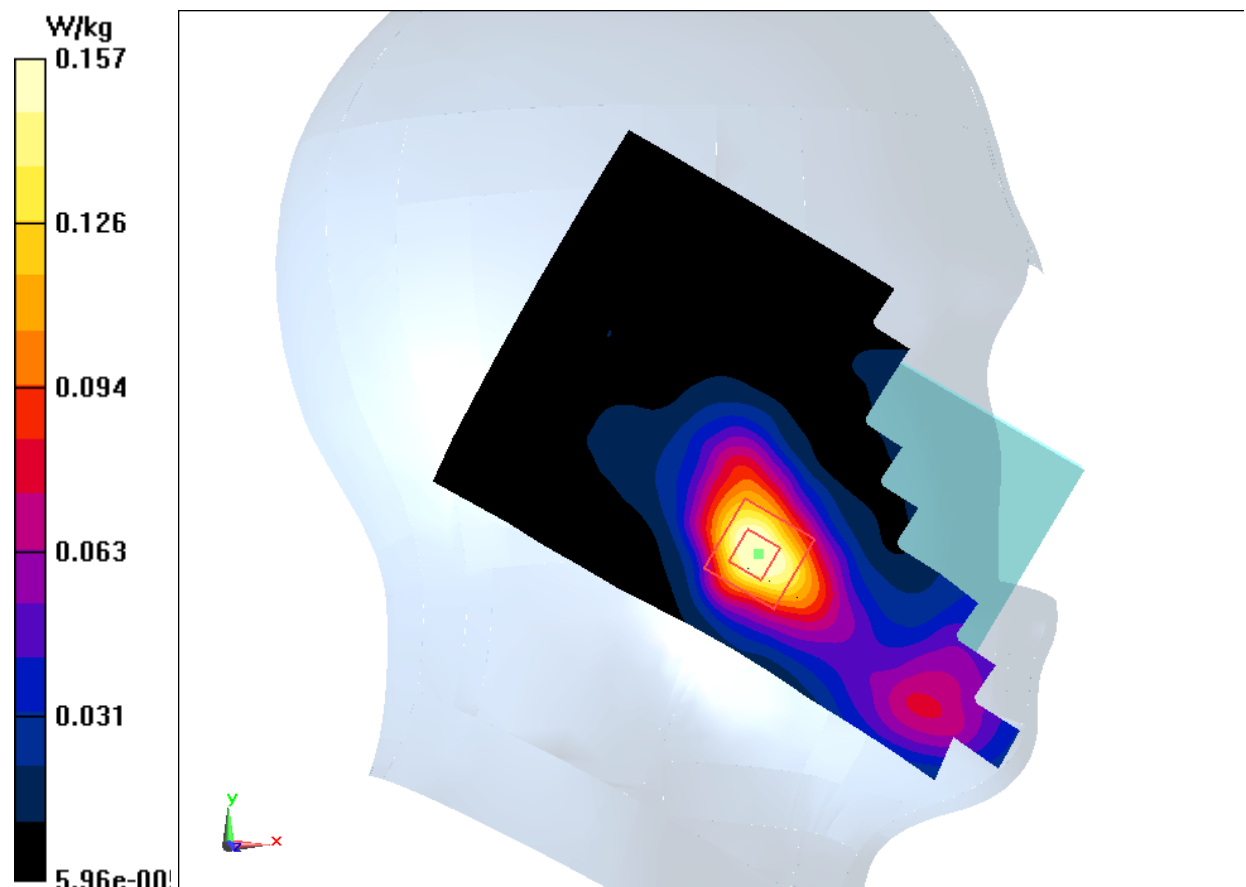


Fig.13 LTE Band7

# **LTE Band7 Body Rear Middle with QPSK\_20M\_1RB\_Low (AP OFF)**

Date: 2016-4-1

Electronics: DAE4 Sn777

Medium: Body 2600 MHz

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.103$  mho/m;  $\epsilon_r = 51.369$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: LTE Band7 Frequency: 2510 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.20, 7.20, 7.20)

**Area Scan (121x71x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.717 W/kg

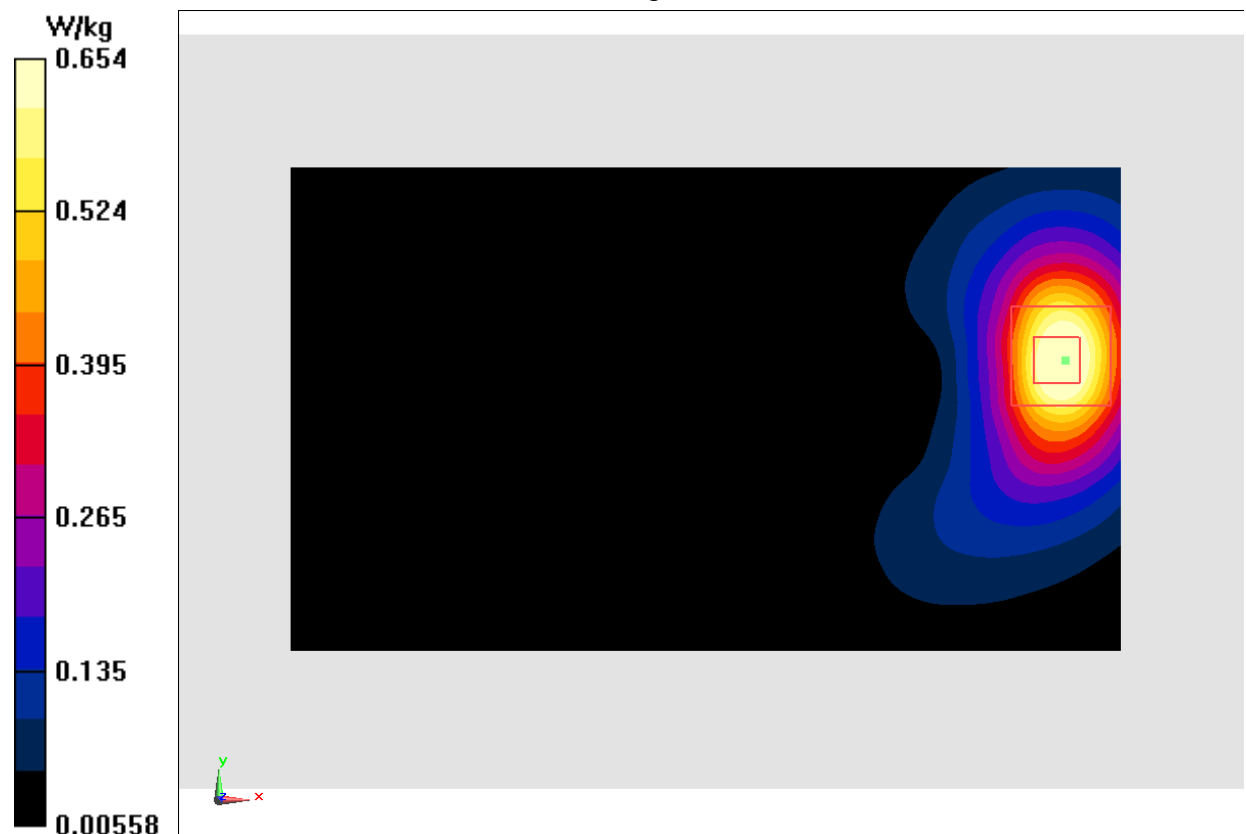
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.966 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.313 W/kg**

Maximum value of SAR (measured) = 0.654 W/kg



**Fig.14 LTE Band7 (AP OFF)**

### LTE Band7 Body Bottom High with QPSK\_20M\_1RB\_Low (AP ON)

Date: 2016-4-1

Electronics: DAE4 Sn777

Medium: Body 2600 MHz

Medium parameters used:  $f = 2560$  MHz;  $\sigma = 2.061$  mho/m;  $\epsilon_r = 51.89$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: LTE Band7 Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.20, 7.20, 7.20)

**Area Scan (121x71x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.963 W/kg

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

Reference Value = 13.00 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.366 W/kg**

Maximum value of SAR (measured) = 0.922 W/kg

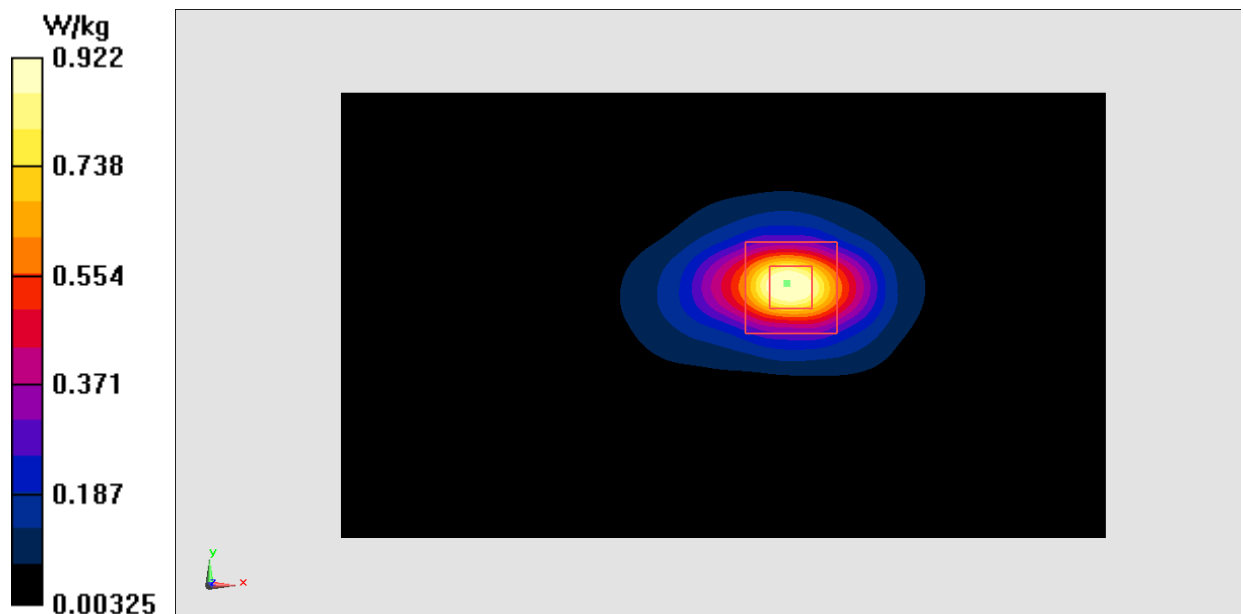


Fig.15 LTE Band7 (AP ON)



### LTE Band 13 Left Cheek Middle with QPSK\_10M\_1RB\_Low

Date: 2016-4-3

Electronics: DAE4 Sn777

Medium: Head 750 MHz

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.921$  mho/m;  $\epsilon_r = 41.56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.2°C      Liquid Temperature: 21.7°C

Communication System: LTE Band13 Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(9.98, 9.98, 9.98)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 6.292 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.384 W/kg

**SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.227 W/kg**

Maximum value of SAR (measured) = 0.322 W/kg

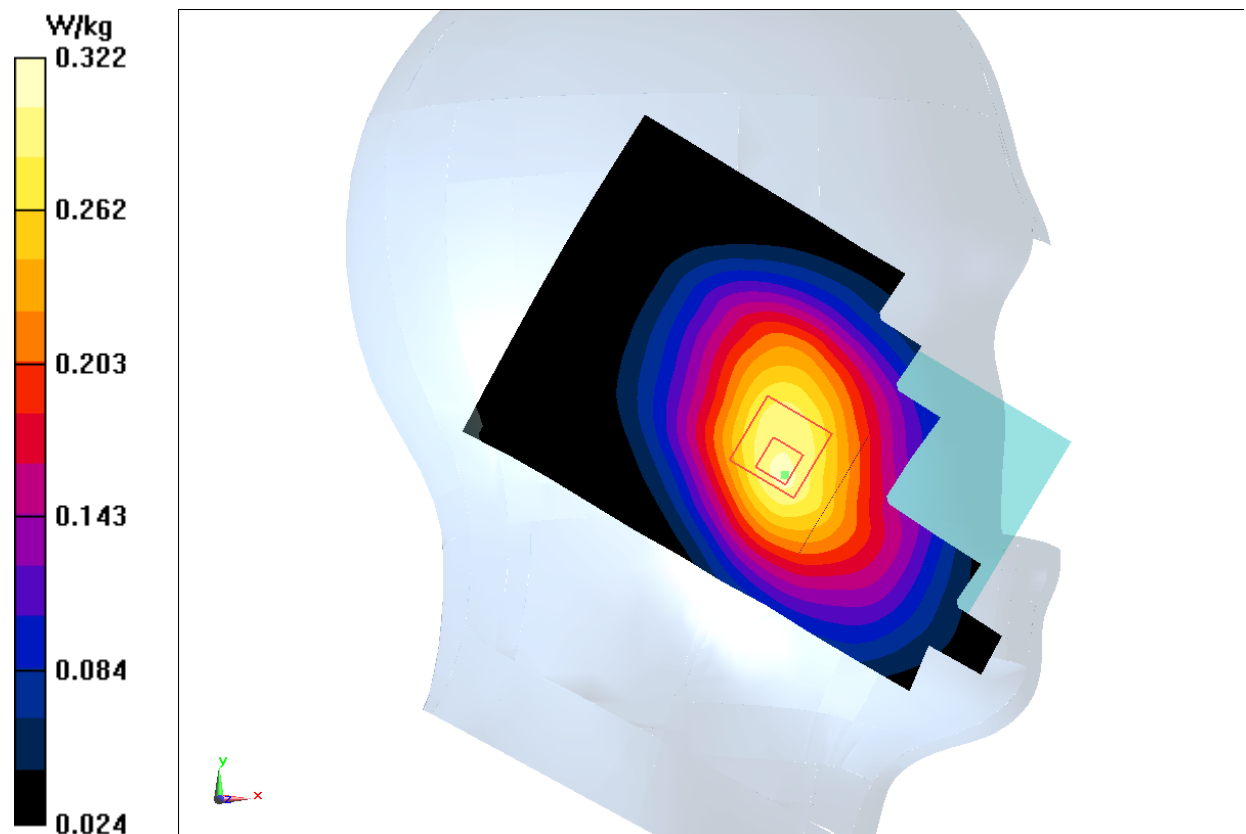


Fig.16 LTE Band 13

### LTE Band 13 Body Rear Middle with QPSK\_10M\_1RB\_Low

Date: 2016-4-3

Electronics: DAE4 Sn777

Medium: Body 750 MHz

Medium parameters used (interpolated):  $f = 782$  MHz;  $\sigma = 0.979$  mho/m;  $\epsilon_r = 54.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.2°C      Liquid Temperature: 21.7°C

Communication System: LTE Band13 Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(9.76, 9.76, 9.76)

**Area Scan (131x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.455 W/kg

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

Reference Value = 19.93 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.531 W/kg

**SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.303 W/kg**

Maximum value of SAR (measured) = 0.426 W/kg

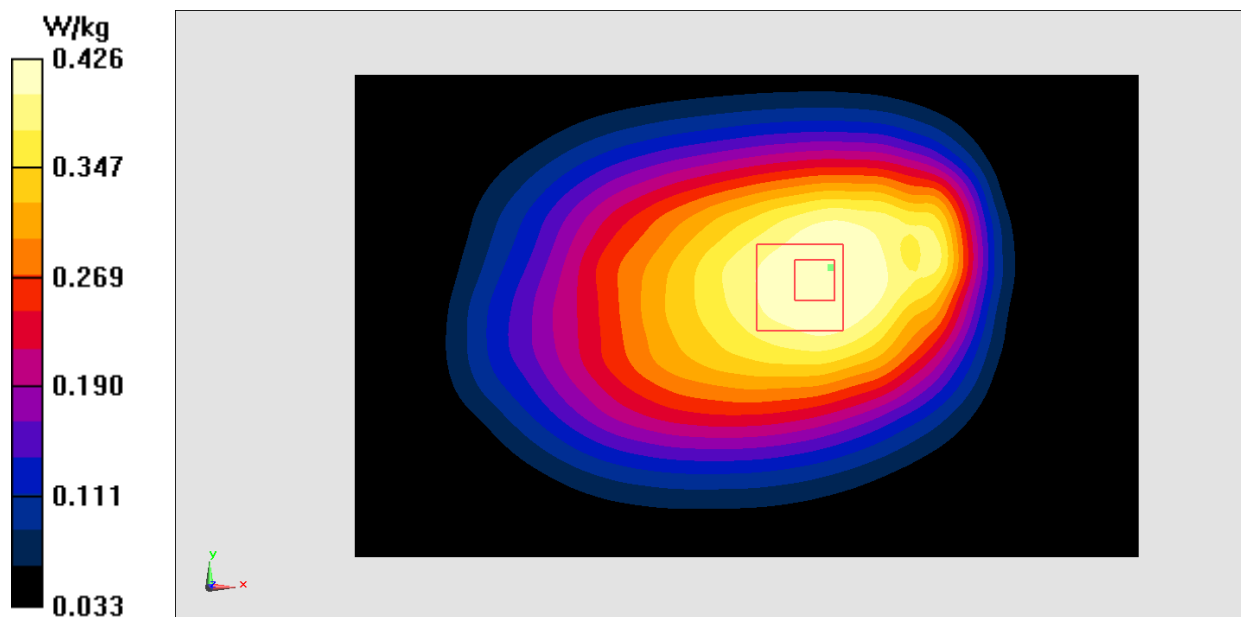


Fig.17 LTE Band 13

### LTE Band17 Left Cheek High with QPSK\_10M\_1RB\_High

Date: 2016-4-3

Electronics: DAE4 Sn777

Medium: Head 750 MHz

Medium parameters used (interpolated):  $f = 711$  MHz;  $\sigma = 0.881$  mho/m;  $\epsilon_r = 43.86$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: LTE Band17 Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(9.98, 9.98, 9.98)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.204 W/kg

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

Reference Value = 4.938 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.244 W/kg

**SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.148 W/kg**

Maximum value of SAR (measured) = 0.208 W/kg

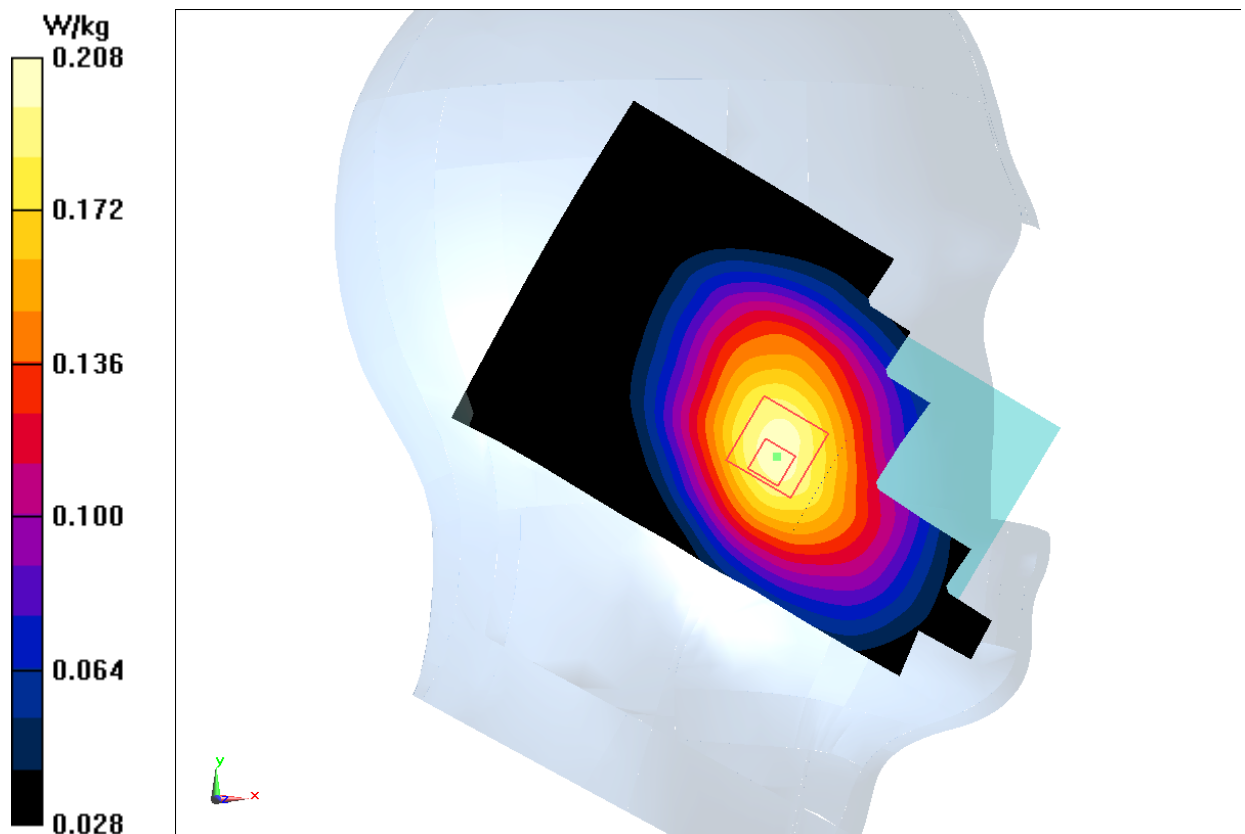


Fig.18 LTE Band17

### LTE Band17 Body Rear High with QPSK\_10M\_1RB\_High

Date: 2016-4-3

Electronics: DAE4 Sn777

Medium: Body 750 MHz

Medium parameters used (interpolated):  $f = 711$  MHz;  $\sigma = 0.925$  mho/m;  $\epsilon_r = 57.91$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.9°C      Liquid Temperature: 22.5°C

Communication System: LTE Band17 Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(9.76, 9.76, 9.76)

**Area Scan(121x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.288 W/kg

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

Reference Value = 14.80 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.359 W/kg

**SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.189 W/kg**

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

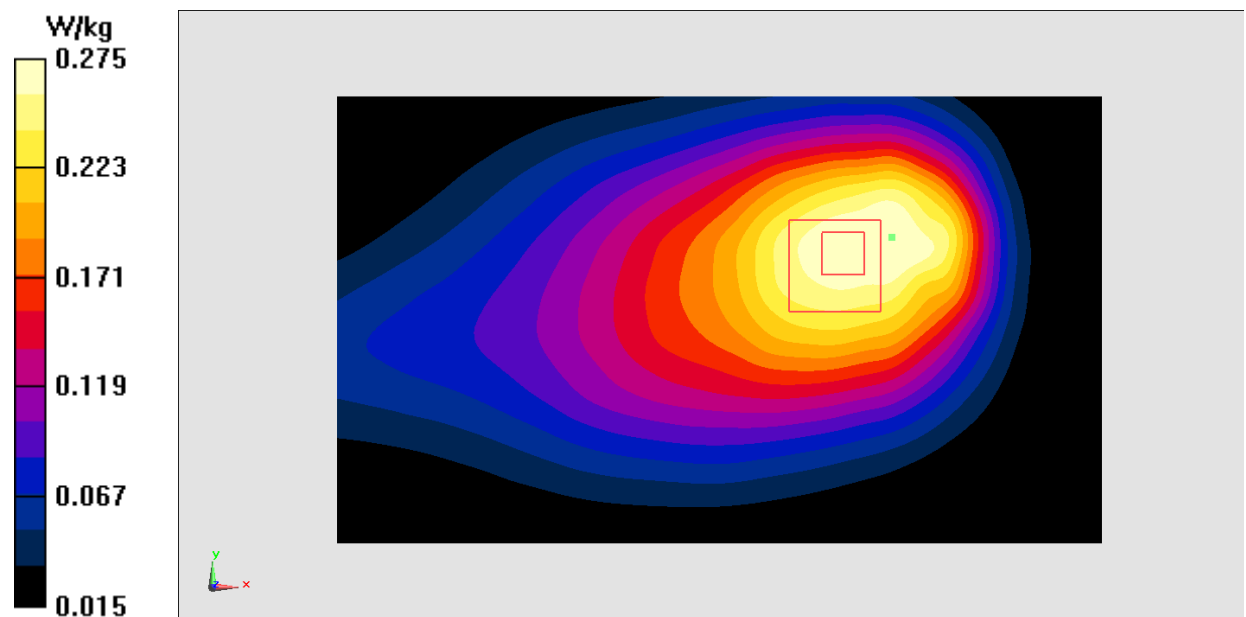


Fig.19 LTE Band17

## ANNEX J Accreditation Certificate

 
<b>China National Accreditation Service for Conformity Assessment</b>
<b>LABORATORY ACCREDITATION CERTIFICATE</b>
<b>(No. CNAS L0570 )</b>
<b>Telecommunication Technology Labs,</b> <b>Academy of Telecommunication Research, MIIT</b> <u>No.52, Huayuan North Road, Haidian District, Beijing, China</u> <u>No.51, Xueyuan Road, Haidian District, Beijing, China</u>
<i>In ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing and calibration.</i> <i>The scope of accreditation is detailed in the attached schedule bearing the same accreditation number as above. The schedule forms an integral part of this certificate.</i>
<b>Date of Issue:</b> 2014-10-29 <b>Date of Expiry:</b> 2017-06-19 <b>Date of Initial Accreditation:</b> 1998-07-03
 Signed on behalf of China National Accreditation Service for Conformity Assessment
<small>China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNA) to operate the national accreditation schemes for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation/Multilateral Recognition Arrangement (ILAC-MRA) and Asia Pacific Laboratory Accreditation Cooperation/Multilateral Recognition Arrangement (APLAC-MRA).</small>
No. CNAS AL 2 <span style="float: right;">0011149</span>