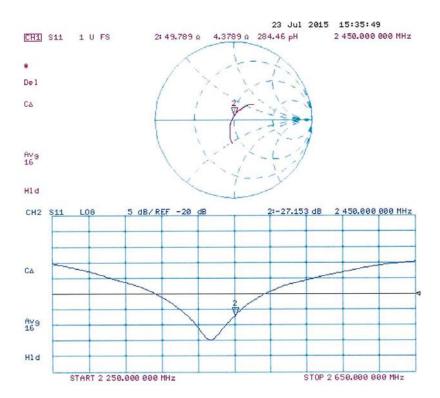


Impedance Measurement Plot for Head TSL





DASY5 Validation Report for Body TSL

Date: 24.07.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:853

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.03 \text{ S/m}$; $\varepsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.32, 4.32, 4.32); Calibrated: 30.12.2014;

• Sensor-Surface: 3mm (Mechanical Surface Detection)

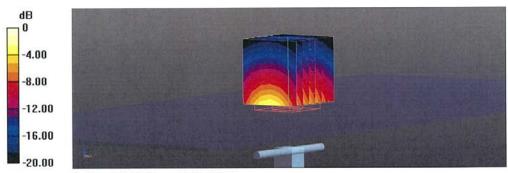
Electronics: DAE4 Sn601; Calibrated: 18.08.2014

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 = 95.79 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 27.5 W/kg SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kg Maximum value of SAR (measured) = 17.6 W/kg

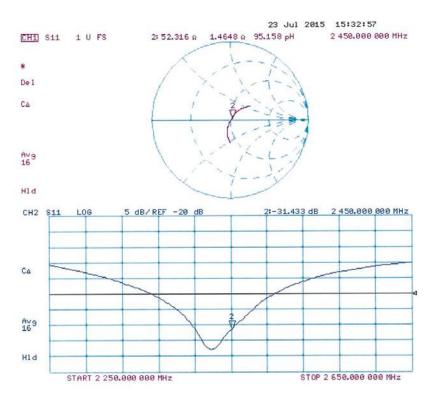


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0 dB = 17.6 W/kg = 12.46 dBW/kg



Impedance Measurement Plot for Body TSL





ANNEX I SPOT CHECK TEST

As the test lab for 4060W 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.1-1: The conducted power results for GSM850/1900

CCM		Conducted Power (dBm)	
GSM 850MHz	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)
OSUIVINZ	\	32.07	/
0014		Conducted Power (dBm)	
GSM	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz)
1900MHz	29.61	\	/

Table I.1-2: The conducted power results for GPRS

GSM 850	M	leasured Power (dBn	n)			
GPRS (GMSK)	251	190	128			
2 Txslots	30.47	\				
PCS1900	Measured Power (dBm)					
GPRS (GMSK)	810	661	512			
3 Txslots	26.06	\	\			

Table I.1-3: The conducted Power for WCDMA

ltom	band		FDDV result	
Item	ARFCN	4233 (846.6MHz)	4182 (836.4MHz)	4132 (826.4MHz)
WCDMA	١	\	22.79	22.92
Item	band		FDDII result AP OFF	
item	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)
WCDMA	١	23.54	\	23.70
Item	band		FDDII result AP ON	
item	ARFCN	9538 (1907.6MHz)	9400 (1880MHz)	9262 (1852.4MHz)
WCDMA	١	22.50	\	\
lt o me	band		FDDIV result	
Item	ARFCN	1513 (1752.6MHz)	1412 (1732.4MHz)	1312 (1712.4MHz)
WCDMA	\	23.41	\	23.51

Table I.1-4: The conducted Power for LTE

LTE Band2 20MHz 1RB-Middle (50) AP OFF	1900 (19100)	23.93
LTE Band2 20MHz 1RB-Low (50) AP ON	1900 (19100)	22.61
LTE Band4 20MHz 1RB-Middle (50)	1745 (20300)	24.30
LTE Bariu4 ZUMITZ TRB-Mildule (50)	1720 (20050)	23.83
LTE Band12 10MHz 1RB-Middle (24)	707.5(23095)	23.31
LTE Daniu 12 TOWN 12 TRD-WILDUIE (24)	704(23060)	23.28

Table I.1-5: The conducted Power for WLAN

Mode	Channel\data rate	1Mbps
902 11h	11	18
802.11b	6	17.65



I.2 Measurement results

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

			Am	bient Te	mperature:	23.0 °C	Liquid Temp	erature: 22	.5°C		
Frequ	ency		Test	Eiguro	Conducted	May tupo up	Measured	Reported	Measured	Reported	Power
	, T	Side		Figure	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.		Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
836.6	190	Left	Touch	Fig.1	32.07	33.5	0.207	0.29	0.270	0.38	0.06

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

			Ambie	ent Temp	erature: 23.	.0°C Liq	uid Tempera	ture: 22.5°0	C		
Frequ	iencv	Mode	Test	Figure	Conducted	May tune up	Measured	Reported	Measured	Reported	Power
		(number of		Figure	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.	timeslots)	Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
848.8	251	GPRS (2)	Rear	Fig.2	30.47	30.5	0.446	0.45	0.588	0.59	-0.11

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: 23.0 °C Liquid Temperature: 22.5 °C											
Freque	ency		Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power	
		Side	Position	No.	Power	Power (dBm)	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift	
MHz	Ch.		POSITION	NO.	(dBm)	Power (abili)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)	
1909.8	810	Left	Touch	Fig.3	29.61	30.5	0.194	0.24	0.319	0.39	0.18	

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

			Ambier	nt Tempe	erature: 23.0)°C Liqu	uid Tempera	ture: 22.5°0	C		
Frequ	encv	Mode	Test	Eiguro	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power
Frequency		(number of		Figure	Power	'	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.	timeslots)	Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
1909.8	810	GPRS (3)	Bottom	Fig.4	26.06	27	0.488	0.61	0.899	1.12	-0.15

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: 23.0 °C Liquid Temperature: 22.5 °C												
Frequ	iency		Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power		
		Side	Position	No.	Power	Power (dBm)	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift		
MHz	Ch.		Position	INO.	(dBm)	Power (dbill)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)		
826.4	4132	Left	Touch	Fig.5	22.92	24	0.221	0.28	0.289	0.37	0.06		

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

	Ambient Temperature: 23.0 °C Liquid Temperature: 22.5 °C										
Fregu	uency	Test	Figure	Conducted	May tupo up	Measured	Reported	Measured	Reported	Power	
	T		Figure	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift	
MHz	Ch.	Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)	
836.4	4182	Rear	Fig.6	22.79	24	0.371	0.49	0.491	0.65	-0.01	

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



Table I.2-7: SAR Values (WCDMA 1700 MHz Band - Head)

			Aml	oient Ter	mperature: 2	23.0 °C L	iquid Temp	erature: 22	.5°C		
Frequ	ency		Test	Figure	Conducted	May tung up	Measured	Reported	Measured	Reported	Power
•	, T	Side		Figure	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.		Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
1752.6	1513	Left	Touch	Fig.7	23.41	24	0.369	0.42	0.576	0.66	-0.11

Table I.2-8: SAR Values (WCDMA 1700 MHz Band - Body)

		A	mbient	Temperature	e: 23.0 °C	Liquid Tem	perature: 2	2.5°C		
Frequ	ency	Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power
	Positio		No.	Power	Power (dBm)	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.	Position	INO.	(dBm)	Power (dbill)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
1712.4	1312	Rear	Fig.8	23.51	24	0.524	0.59	0.811	0.91	0.01

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

Table I.2-9: SAR Values (WCDMA 1900 MHz Band - Head)

			Aml	oient Ter	mperature: 2	23.0 °C L	iquid Temp	erature: 22	.5°C		
Frequ	ency		Test	Eiguro	Conducted	May tung up	Measured	Reported	Measured	Reported	Power
•	, T	Side		Figure	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.		Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
1852.4	9262	Left	Touch	Fig.9	23.7	24	0.378	0.41	0.621	0.67	0.09

Table I.2-10: SAR Values (WCDMA 1900 MHz Band - Body) - AP ON

									- 7 /		
			Д	mbient	Temperature	e: 23.0 °C	Liquid Ter	mperature:	22.5°C		
	Freque	encv	Toot	Figuro	Conducted	May tung up	Measured	Reported	Measured	Reported	Power
	Frequency	Test	Figure	Power	Max. tune-up	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift	
ľ	ИHz	Ch.	Ch. Position No.	INO.	(dBm) Power (dBm)		(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
19	907.6	9538	Bottom	Fig.10	22.5	22.5	0.532	0.53	0.973	0.97	-0.04

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

Table I.2-11: SAR Values (WCDMA 1900 MHz Band - Body) - AP OFF

		Α	mbient ¹	Temperature	e: 23.0 °C	Liquid Ter	mperature:	22.5°C		
Freque	encv	Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power
	,	Position	No.	Power	-	SAR(10g)	SAR(10g)	SAR(1g)	SAR(1g)	Drift
MHz	Ch.	Position	NO.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
1907.6	9538	Rear	Fig.11	23.54	24	0.363	0.40	0.601	0.67	-0.04

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

Table I.2-12: SAR Values (LTE Band2 - Head)

							•					
			Amb	ient Temp	erature	: 23.0 °C	Liquid	Temperatui	re: 22.5°C			
Frequ	uency			Test	Figuro	Conducted	Max.	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Mode	Side	Position	Figure No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1900	19100	1RB_Mid	Left	Touch	Fig.12	23.93	24.8	0.363	0.44	0.592	0.72	0.14

Note1: The LTE mode is QPSK_20MHz.



Table I.2-13: SAR Values (LTE Band2 - Body) - AP ON

			Ambient 7	Tempera	nture: 23.0°C	Liqui	Liquid Temperature: 22.5°C				
Frequ	iency		Test	Figure	Conducted	Max. tune-up	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Mode	Position	No.	Power (dBm)	Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1900	19100	1RB_Low	Bottom	Fig.13	22.61	23	0.543	0.59	1.02	1.12	0.13

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

Note2: The LTE mode is QPSK_20MHz.

Table I.2-14: SAR Values (LTE Band2 - Body) - AP OFF

			Ambient ⁻	Tempera	ture: 23.0°C	C Liqui	Liquid Temperature: 22.5°C				
Frequ MHz	Ch.	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)
1900	19100	1RB_Mid	Rear	Fig.14	23.93	24.8	0.400	0.49	0.658	0.80	0.09

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 Band4 - Head)

							•					
			Amb	ient Temp	perature	: 23.0 °C	Liquid	Temperatui	re: 22.5°C			
Frequ	uency			Test	Figure	Conducted	Max.	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Mode	Side	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
1745	20300	1RB_Mid	Left	Touch	Fig.15	24.3	24.5	0.302	0.32	0.469	0.49	-0.05

Note1: The LTE mode is QPSK 20MHz.

Table I.2-16: SAR Values (LTE Band4 - Body)

r												
				Ambient 7	Гетрега	ture: 23.0°C	3.0 °C Liquid Temperature: 22.5 °C					
•	Frequ MHz	Ch.	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)
	1720	20050	1RB_Mid	Rear	Fig.16	23.83	24.5	0.645	0.75	0.996	1.16	-0.01

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

Note2: The LTE mode is QPSK 20MHz.

Table I.2-17: SAR Values (LTE Band12 - Head)

			Amb	ient Temp	erature:	23.0 °C	Liquid	Temperatur	e: 22.5 °C			
Frequ	uency			Tool	F:	Conducted	Max.	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Mode	Side	Test Position	Figure No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
707.5	23095	1RB_Mid	Left	Touch	Fig.17	23.31	24	0.229	0.27	0.297	0.35	-0.05

Note1: The LTE mode is QPSK_10MHz.



Table I.2-18: SAR Values (LTE Band12 - Body)

			Ambient 7	Tempera	ture: 23.0 °C	Liqui	Liquid Temperature: 22.5 °C				
Frequ	ency Ch.	Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
					, ,	(dBm)	, 0,	, ,	, ,,	, 0,	,
704	23060	1RB_Mid	Rear	Fig.18	23.28	24	0.305	0.36	0.400	0.47	0.05

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

Note2: The LTE mode is QPSK_10MHz.

I.3 WLAN Evaluation

Head Evaluation

Table I.3-1: SAR Values (WLAN - Head) – 802.11b 1Mbps (Full SAR)

			Amb	ient Tem	perature: 2	3.0 °C L	iquid Tempe	erature: 22.5	5°C		
Freque	ency	Side	Test	Figure	Conducted Power	Max. tune-up	Measured SAR(10g)	Reported SAR(10g)	Measured SAR(1g)	Reported SAR(1g)	Power Drift
MHz	Ch.		Position	No.	(dBm)	Power (dBm)	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(dB)
2437	6	Right	Touch	Fig.19	17.65	18	0.410	0.44	0.885	0.96	0.07

Table I.3-2: SAR Values (WLAN - Head) – 802.11b 1Mbps (Scaled Reported SAR)

Ambient Temperature: 23.0 °C					Liquid Temperature: 22.5 °C			
Freque	Frequency		Test	Actual duty	maximum	Reported SAR	Scaled reported SAR	
MHz	Ch.	Side	Position	factor	duty factor	(1g) (W/kg)	(1g) (W/kg)	
2437	6	Right	Touch	97.83%	100%	0.96	0.98	

Body Evaluation

Table I.3-3: SAR Values (WLAN - Head) – 802.11b 1Mbps (Full SAR)

Ambient Temperature: 23.0 °C					Liquid Temperature: 22.5 °C					
Frequ	ency	Toot	Figure	Conducted	Max.	Measured	Reported	Measured	Reported	Power
MHz	Ch.	Test Position	Figure No.	Power (dBm)	tune-up Power (dBm)	SAR(10g) (W/kg)	SAR(10g) (W/kg)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift (dB)
2462	11	Rear	Fig.20	18	18	0.131	0.13	0.269	0.27	-0.10

Table I.3-4: SAR Values (WLAN - Head) – 802.11b 1Mbps (Scaled Reported SAR)

Ambient Temperature: 23.0 °C Liquid Temperature: 22.5 °C							
Frequency		Test	Actual duty	maximum duty	Reported SAR	Scaled reported SAR	
MHz	Ch.	Position	factor	factor	(1g) (W/kg)	(1g) (W/kg)	
2462	11	Rear	97.83%	100%	0.27	0.28	



I.4 Reported SAR Comparison

Exposure Configuration	Technology Band	Reported SAR 1g (W/Kg): spot check	Reported SAR 1g (W/Kg): original	
	GSM 850	0.38	0.39	
	PCS 1900	0.39	0.39	
	UMTS FDD 2	0.67	0.76	
	UMTS FDD 4	0.66	0.59	
Head (Separation Distance 0mm)	UMTS FDD 5	0.37	0.44	
(Separation Distance offin)	LTE Band 2	0.72	0.79	
	LTE Band 4	0.49	0.74	
	LTE Band 12	0.35	0.33	
	WLAN 2.4 GHz	0.98	1.25	
	GSM 850	0.59	0.79	
	PCS 1900	1.12	1.18	
	UMTS FDD 2	0.97	1.04	
	UMTS FDD 4	0.91	1.14	
Body-worn (Separation Distance 10mm)	UMTS FDD 5	0.65	0.48	
(Separation Distance Tornin)	LTE Band 2	1.12	1.27	
	LTE Band 4	1.16	1.30	
	LTE Band 12	0.47	0.52	
	WLAN 2.4 GHz	0.28	0.29	
Body-worn (Data)	UMTS FDD 2	0.67	0.63	
(Separation Distance 15mm)	LTE Band2	0.80	0.82	

Note: The spot check results of Head for UMTS Band4 / LTE Band12 and body for UMTS Band5 / UMTS Band2 (15mm) are larger than the original results, so these values replace the original results and others are quoted.



850 Left Cheek Middle

Date: 2016-06-21

Electronics: DAE4 Sn777 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.932$ mho/m; $\epsilon r = 42.77$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 Frequency: 836.6 MHz Duty Cycle: 1:8.3

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

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 = 5.381 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.207 W/kg

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

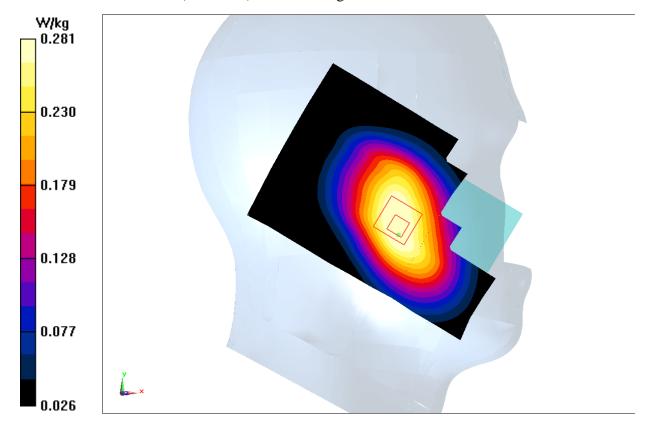


Fig.1 850MHz



850 Body Rear High

Date: 2016-06-21

Electronics: DAE4 Sn777 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; $\sigma = 0.992$ mho/m; $\epsilon r = 57.317$; $\rho = 0.992$ mho/m; $\epsilon r = 57.317$; $\epsilon r = 0.992$ mho/m; $\epsilon r = 0$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:4

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 24.65 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.446 W/kg

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

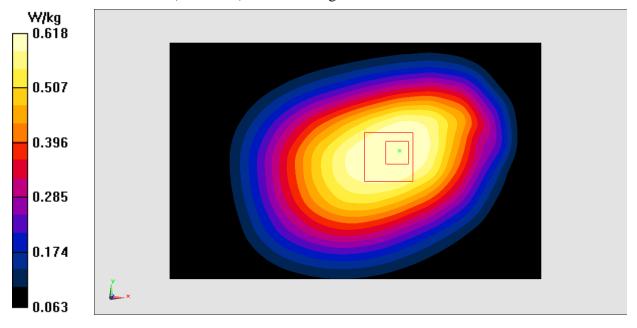


Fig.2 850 MHz



1900 Left Cheek High

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Head 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.42 \text{ mho/m}$; $\epsilon r = 40.636$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°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) = 0.410 W/kg

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

Reference Value = 4.253 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.496 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.194 W/kg

Maximum value of SAR (measured) = 0.380 W/kg

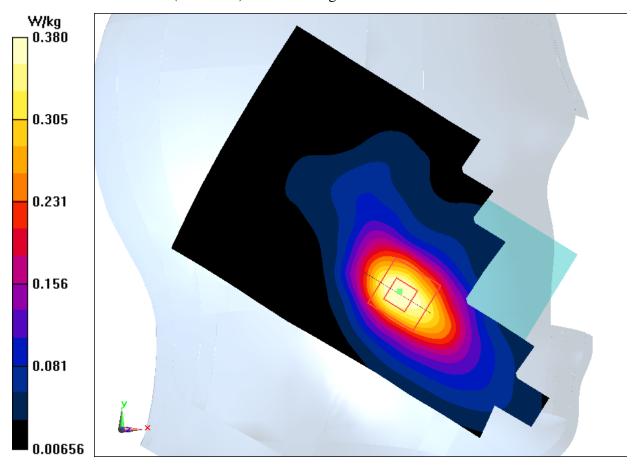


Fig.3 1900 MHz



1900 Body Bottom High

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Body 1900 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.584 \text{ mho/m}$; $\epsilon r = 52.591$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1910 MHz Duty Cycle: 1:2.67

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 23.18 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.899 W/kg; SAR(10 g) = 0.488 W/kg

Maximum value of SAR (measured) = 1.11 W/kg

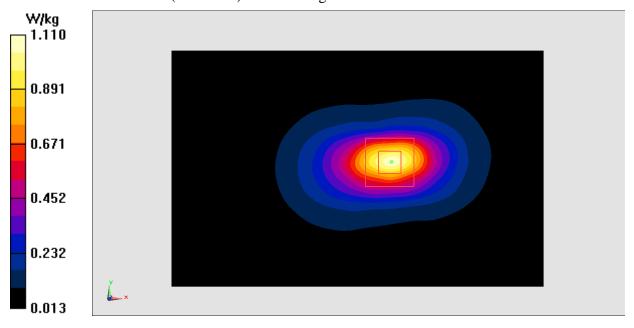


Fig.4 1900 MHz



WCDMA 850 Left Cheek Low

Date: 2016-06-21

Electronics: DAE4 Sn777 Medium: Head 850 MHz

Medium parameters used (interpolated): f = 826.4 MHz; $\sigma = 0.922$ mho/m; $\epsilon r = 42.958$; $\rho = 0.922$ mho/m; $\epsilon r = 42.958$; $\epsilon r = 42.958$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

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

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

Maximum value of SAR (interpolated) = 0.318 W/kg

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

Reference Value = 8.637 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.221 W/kg

Maximum value of SAR (measured) = 0.301 W/kg

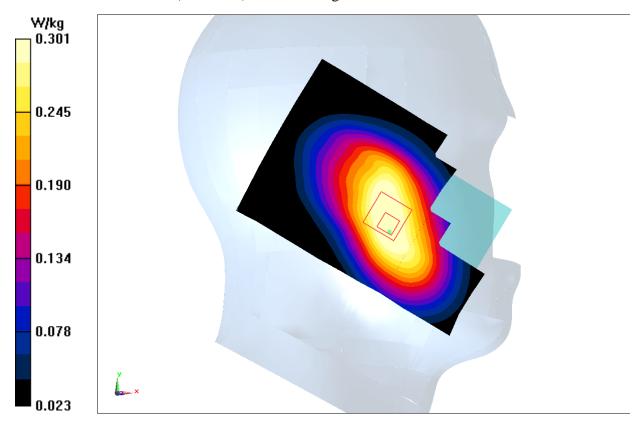


Fig.5 WCDMA 850



WCDMA 850 Body Rear Middle

Date: 2016-06-21

Electronics: DAE4 Sn777 Medium: Body 850 MHz

Medium parameters used (interpolated): f = 836.4 MHz; $\sigma = 0.981$ mho/m; $\epsilon r = 57.466$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.546 W/kg

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

Reference Value = 22.17 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.371 W/kg.

Maximum value of SAR (measured) = 0.515 W/kg

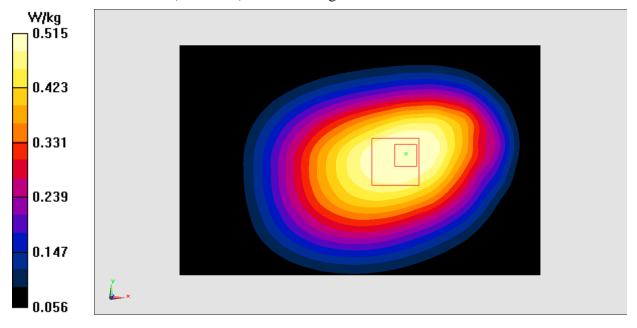


Fig.6 WCDMA 850



WCDMA 1700 Left Cheek High

Date: 2016-06-22

Electronics: DAE4 Sn777 Medium: Head 1750 MHz

Medium parameters used (interpolated): f = 1752.6 MHz; $\sigma = 1.386$ mho/m; $\epsilon r = 42.289$; $\rho = 1.386$ mho/m; $\epsilon r = 42.289$; $\epsilon r = 42.289$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

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

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

Maximum value of SAR (interpolated) = 0.685 W/kg

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

Reference Value = 4.028 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 0.665 W/kg

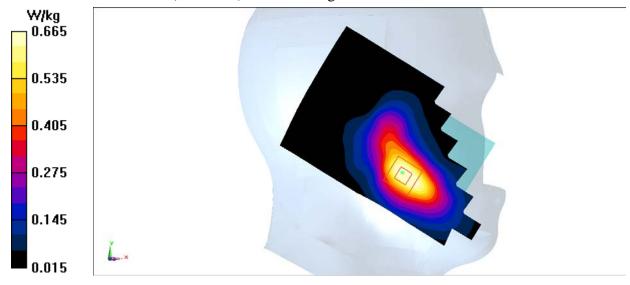


Fig.7 1700MHz



WCDMA 1700 Body Rear Low

Date: 2016-06-22

Electronics: DAE4 Sn777 Medium: Body 1750 MHz

Medium parameters used (interpolated): f = 1712.4 MHz; $\sigma = 1.5$ mho/m; $\epsilon r = 55.734$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1700 Frequency: 1712.4 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) = 0.984 W/kg

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

Reference Value = 16.04 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.524 W/kg

Maximum value of SAR (measured) = 0.933 W/kg

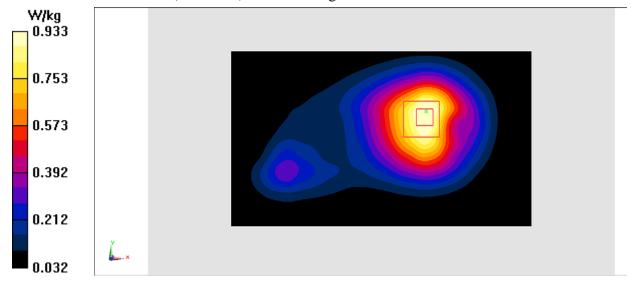


Fig.8 1700 MHz



WCDMA 1900 Left Cheek Low

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Head 1900 MHz

Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma = 1.377$ mho/m; $\epsilon r = 40.777$; $\rho = 1.377$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1852.4 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) = 0.784 W/kg

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

Reference Value = 5.784 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 0.737 W/kg

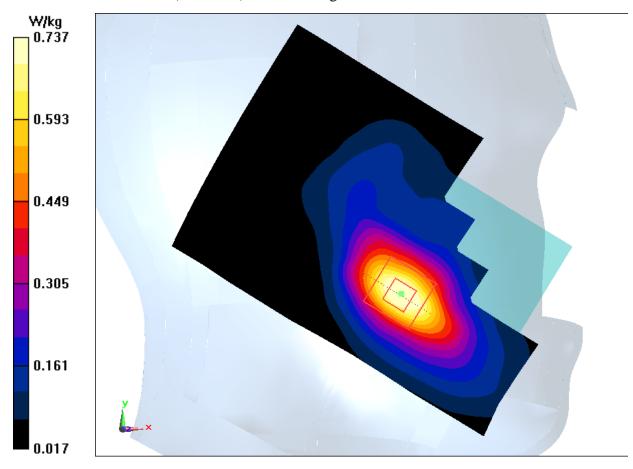


Fig.9 WCDMA1900



WCDMA 1900 Body Bottom High – AP ON

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Body 1900 MHz

Medium parameters used: f = 1907.6 MHz; $\sigma = 1.58 \text{ mho/m}$; $\epsilon r = 52.577$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 25.61 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.532 W/kg

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

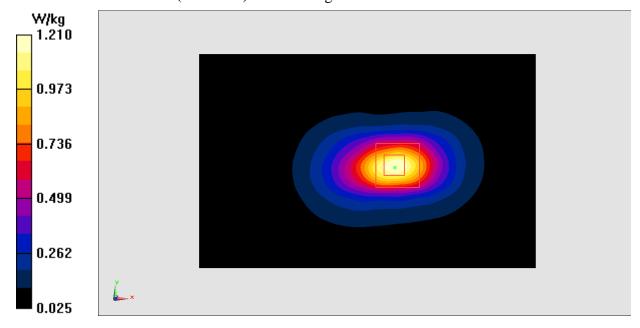


Fig.10 WCDMA1900



WCDMA 1900 Body Rear High – AP OFF

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Body 1900 MHz

Medium parameters used: f = 1907.6 MHz; $\sigma = 1.58 \text{ mho/m}$; $\epsilon r = 52.577$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

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

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.708 W/kg

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

Reference Value = 13.49 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.363 W/kg

Maximum value of SAR (measured) = 0.725 W/kg

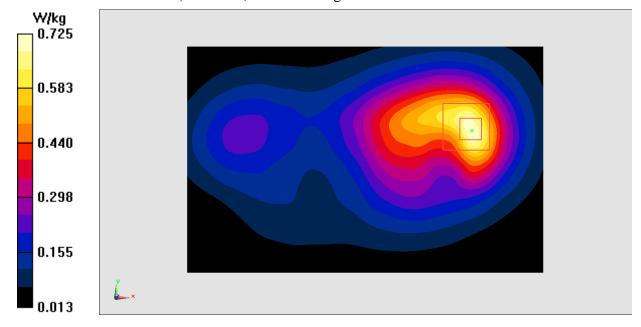


Fig.11 WCDMA1900



LTE Band2 Left Cheek High with QPSK_20M_1RB_Middle

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Head 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.409 \text{ mho/m}$; $\epsilon r = 40.685$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: LTE Band2 Frequency: 1900 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) = 0.765 W/kg

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

Reference Value = 6.513 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.912 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.363 W/kgMaximum value of SAR (measured) = 0.700 W/kg

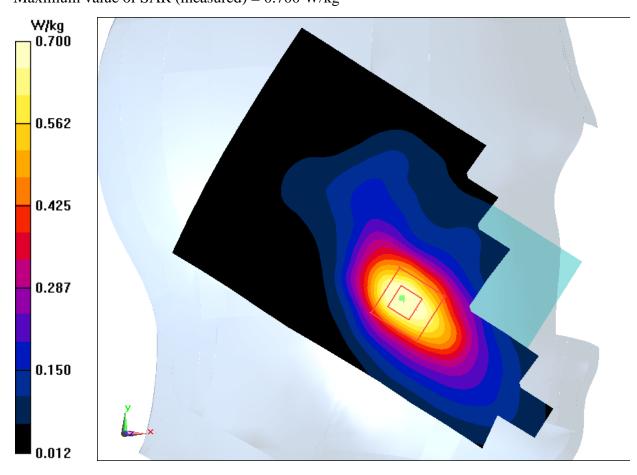


Fig.12 LTE Band2



LTE Band2 Body Bottom High with QPSK_20M_1RB_Low - AP ON

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Body 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.575 \text{ mho/m}$; $\epsilon r = 52.618$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: LTE Band2 Frequency: 1900 MHz Duty Cycle: 1:1

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 11.07 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.543 W/kg

Maximum value of SAR (measured) = 1.25 W/kg

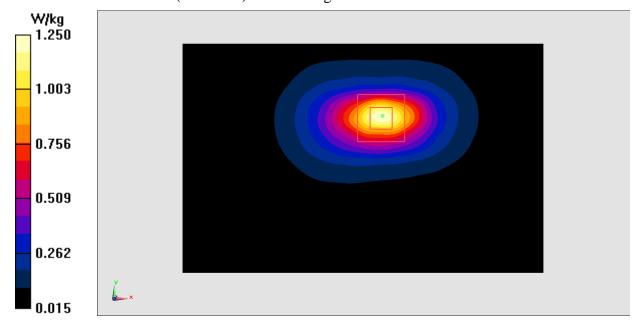


Fig.13 LTE Band2



LTE Band2 Body Rear High with QPSK_20M_1RB_Middle - AP OFF

Date: 2016-06-23

Electronics: DAE4 Sn777 Medium: Body 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.575 \text{ mho/m}$; $\epsilon r = 52.618$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: LTE Band2 Frequency: 1900 MHz Duty Cycle: 1:1

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.739 W/kg

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

Reference Value = 11.57 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.400 W/kg

Maximum value of SAR (measured) = 0.769 W/kg

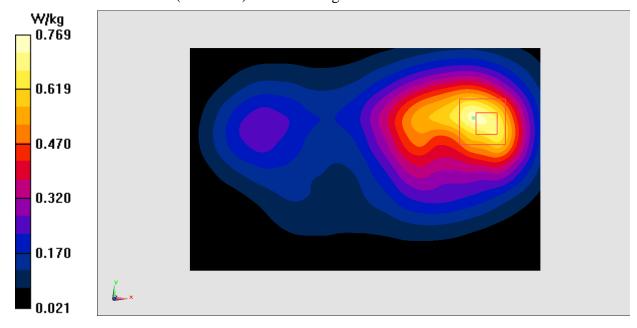


Fig.14 LTE Band2



LTE Band4 Left Cheek High with QPSK_20M_1RB_Middle

Date: 2016-06-22

Electronics: DAE4 Sn777 Medium: Head 1750 MHz

Medium parameters used: f = 1745 MHz; $\sigma = 1.354$ mho/m; $\epsilon r = 41.566$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.0°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 (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.560 W/kg

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

Reference Value = 4.490 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.690 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.535 W/kg

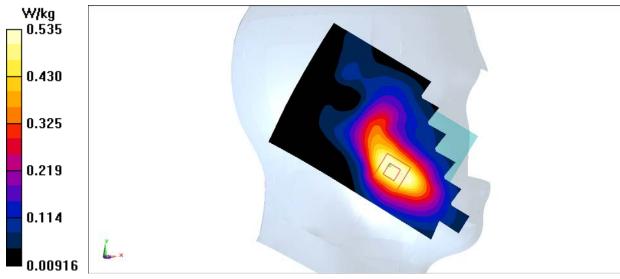


Fig.15 LTE Band4



LTE Band4 Body Rear Low with QPSK_20M_1RB_Middle

Date: 2016-06-22

Electronics: DAE4 Sn777 Medium: Body 1750 MHz

Medium parameters used: f = 1720 MHz; $\sigma = 1.509 \text{ mho/m}$; $\epsilon r = 55.652$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.0°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 (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

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

Reference Value = 16.68 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.645 W/kg

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

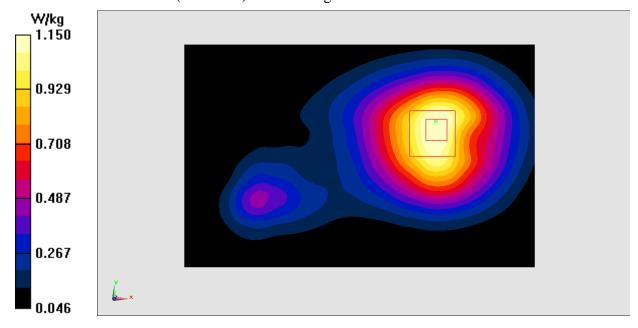


Fig.16 LTE Band4



LTE Band12 Left Cheek Middle with QPSK_10M_1RB_Middle

Date: 2016-06-20

Electronics: DAE4 Sn777 Medium: Head 750 MHz

Medium parameters used (interpolated): f = 707.5 MHz; $\sigma = 0.823$ mho/m; $\epsilon r = 44.191$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: LTE Band12 Frequency: 707.5 MHz Duty Cycle: 1:1

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

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

Maximum value of SAR (interpolated) = 0.306 W/kg

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

Reference Value = 9.630 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.312 W/kg

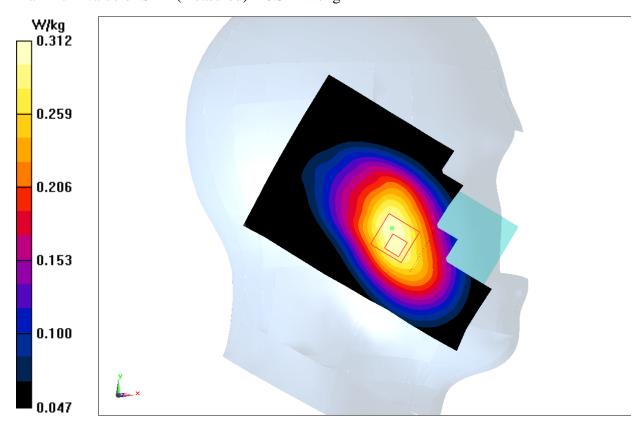


Fig.17 LTE Band12



LTE Band12 Body Rear Low with QPSK_10M_1RB_Middle

Date: 2016-06-20

Electronics: DAE4 Sn777 Medium: Body 750 MHz

Medium parameters used (interpolated): f = 704 MHz; $\sigma = 0.911$ mho/m; $\epsilon r = 57.736$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: LTE Band12 Frequency: 704 MHz Duty Cycle: 1:1

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

Area Scan (111x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.462 W/kg

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

Reference Value = 20.47 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.305 W/kg

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

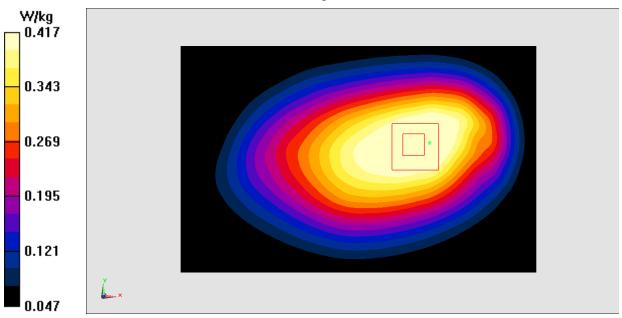


Fig.18 LTE Band12



Wifi 802.11b Right Cheek Channel 6

Date: 2016-06-19

Electronics: DAE4 Sn777 Medium: Head 2450 MHz

Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 1.82$ mho/m; $\varepsilon_r = 40.295$; $\rho = 1000$

 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WLan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.24, 7.24, 7.24)

Area Scan (81x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 13.95 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.885 W/kg; SAR(10 g) = 0.410 W/kg

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

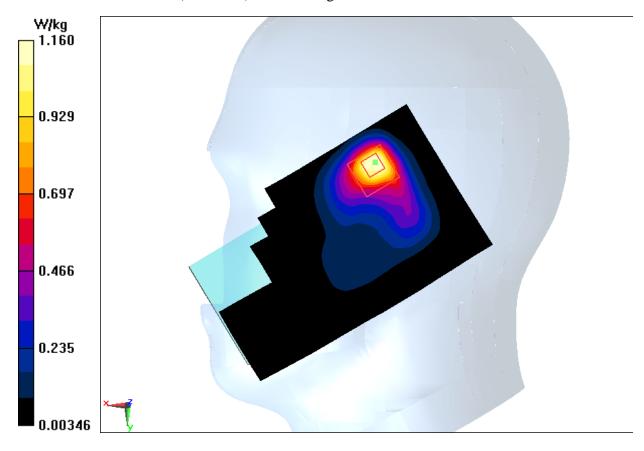


Fig.19 2450 MHz



Wifi 802.11b Body Rear Channel 11

Date: 2016-06-19

Electronics: DAE4 Sn777 Medium: Body 2450 MHz

Medium parameters used (interpolated): f = 2462 MHz; $\sigma = 1.945$ mho/m; $\epsilon_r = 54.513$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WLan 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3617 ConvF(7.35, 7.35, 7.35)

Area Scan (141x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.347 W/kg

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

Reference Value = 6.278 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 0.302 W/kg

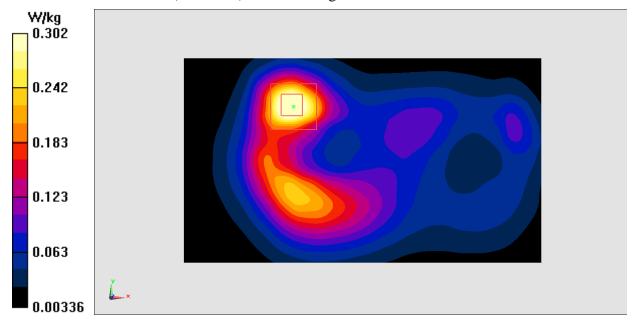


Fig.20 2450 MHz



ANNEX J Accreditation Certificate

