SAR Values (WLAN - Head) – 802.11b 1Mbps (Scaled Reported SAR)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C		
Frequency		Side	Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.						
2437	6	Right	Touch	94.06%	100%	0.14	0.15

SAR is not required for OFDM because the 802.11b adjusted SAR ⩽ 1.2 W/kg.

: SAR Values (WLAN - Body) – 802.11b 1Mbps (Scaled Reported SAR)

Ambient Temperature: 22.9 °C				Liquid Temperature: 22.5 °C	
Frequency		Test Position	Actual duty factor	maximum duty factor	Reported SAR (1g) (W/kg)	Scaled reported SAR (1g) (W/kg)
MHz	Ch.					
2437	6	Rear open	94.06%	100%	0.05	0.05

SAR is not required for OFDM because the 802.11b adjusted SAR ⩽ 1.2 W/kg.
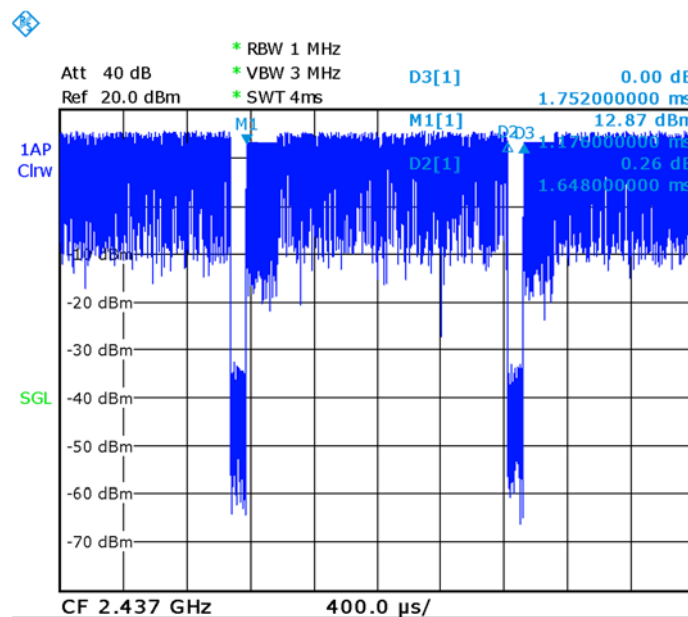
Picture I.1 Duty factor plot

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)	GSM850	0.51	0.56
	GSM1900	0.12	0.15
	WCDMA 850	0.54	0.58
	WCDMA 1700	0.40	0.39
	WCDMA 1900	0.27	0.28
	LTE Band2	0.27	0.32
	LTE Band4	0.37	0.25
	LTE Band5	0.53	0.61
	LTE Band7	0.34	0.30
	LTE Band12	0.33	0.33
	BT	0.01	0.01
	WLAN	0.15	0.27
Body-worn (Data) (Separation Distance 15mm)	GSM850	0.37	0.42
	GSM1900	0.58	0.70
	WCDMA 850	0.34	0.40
	WCDMA 1700	1.00	1.11
	WCDMA 1900	1.13	1.14
	LTE Band2	0.67	0.85
	LTE Band4	1.02	1.14
	LTE Band5	0.34	0.45
	LTE Band7	0.55	0.40
	LTE Band12	0.53	0.53
	WLAN	0.05	0.05

Note: According to the data in the table, the spot check results of WCDMA 1700/LTE Band 4/LTE Band 7(Head) and LTE Band 7(Body) are larger than original results. So we use these values replace the original results.

I.4 Graph Results for Spot check

GSM850_848.8_Right Cheek

Date: 13/1/2017

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.921 mho/m; εr = 41.51; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: GSM850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 – SN7307 ConvF(10.01, 10.01, 10.01)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.533 W/kg

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

Reference Value = 4.333 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.672 W/kg

SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.297 W/kg
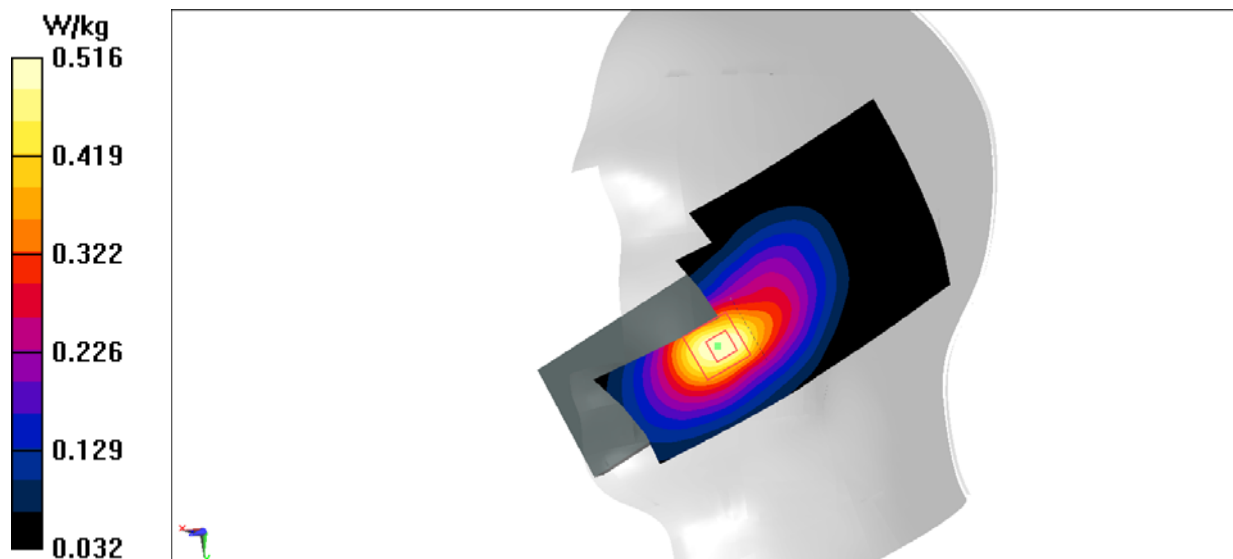
Maximum value of SAR (measured) = 0.516 W/kg

Figure I.1

GSM850_848.8_Rear closed

Date: 13/1/2017

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.976 mho/m; εr = 56.05; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: GSM850 848.8 Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: EX3DV4 – SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (131x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.280 W/kg

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

Reference Value = 17.31 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.196 W/kg

Maximum value of SAR (measured) = 0.299 W/kg

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

Reference Value = 17.31 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.169 W/kg

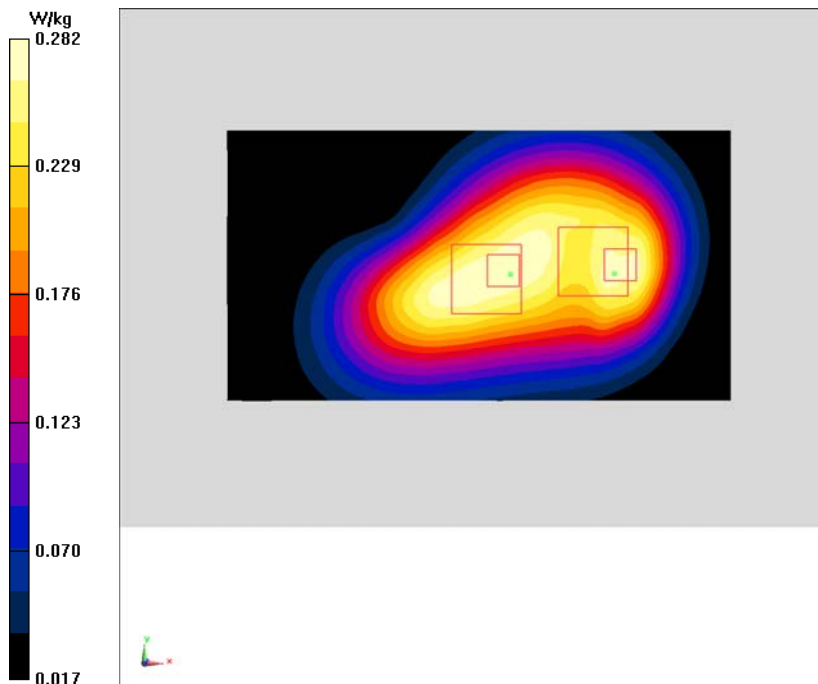Maximum value of SAR (measured) = 0.282 W/kg

Figure I.2

GSM1900_1880_Left Cheek

Date: 15/1/2017
Electronics: DAE4 Sn1331
Medium: Head 1900 MHz
Medium parameters used (interpolated): f = 1880 MHz; σ = 1.361 mho/m; εr = 40.451; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: GSM1900 1880 Frequency: 1880 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7307 ConvF(8.10, 8.10, 8.10)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.106 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.523 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.155 W/kg
SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.064 W/kg
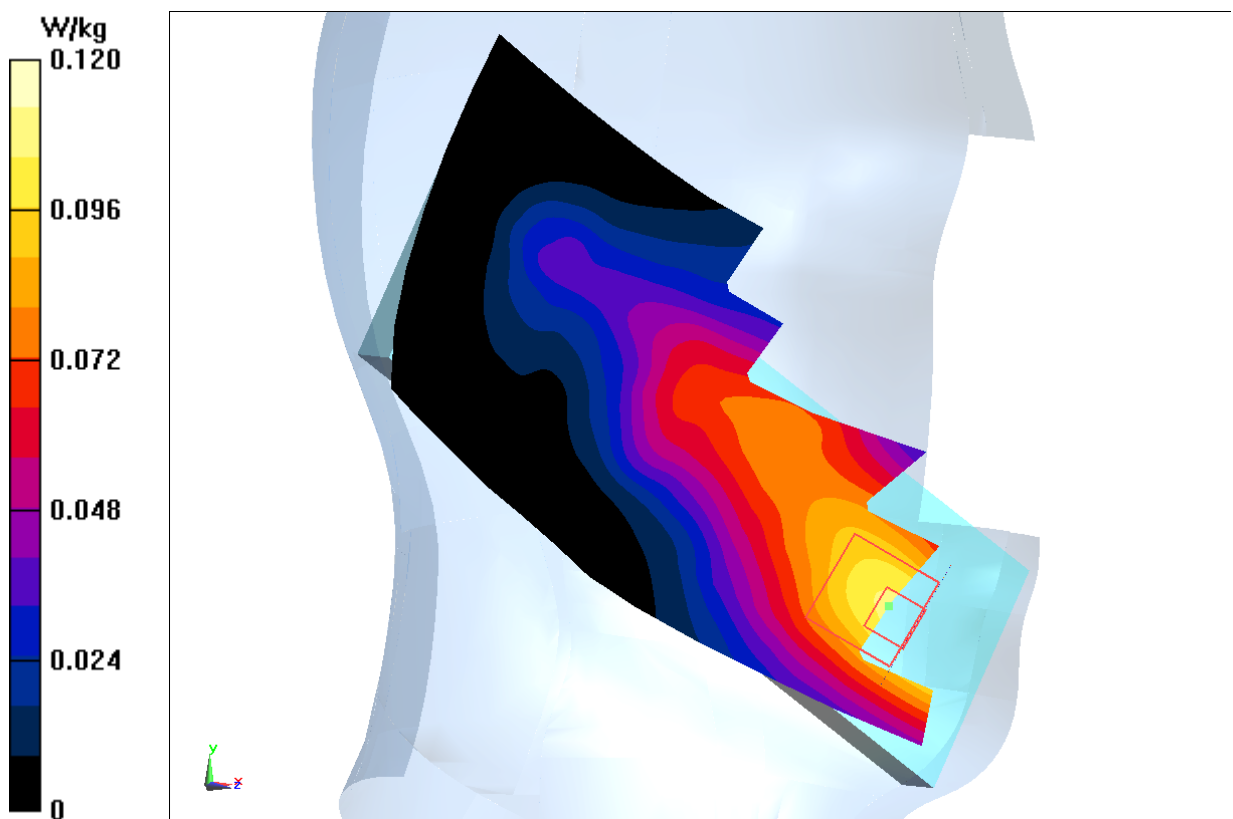Maximum value of SAR (measured) = 0.120 W/kg

Figure I.3

GSM1900_1850.2_Rear open

Date: 15/1/2017
Electronics: DAE4 Sn1331
Medium: Body 1900 MHz
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.501 mho/m; εr = 52.25; εr = ; ρ = 1000 kg/m³
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: GSM1900 Frequency: 1850.2 MHz Duty Cycle: 1:4
Probe: EX3DV4 – SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.552 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.13 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.736 W/kg
SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.281 W/kg
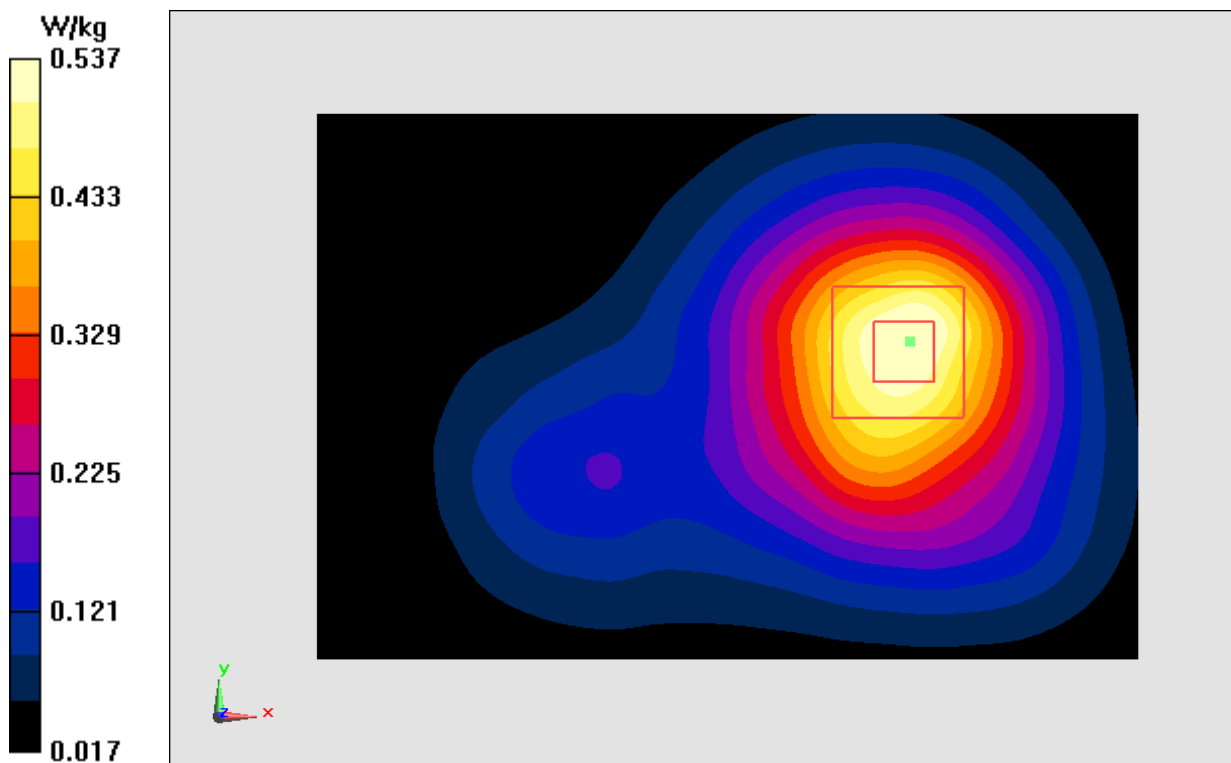Maximum value of SAR (measured) = 0.537 W/kg

Figure I.4

WCDMA850_826.4_Right Cheek

Date: 13/1/2017

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.915 mho/m; εr = 41.521; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: WCDMA850 Frequency: 826.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(10.01, 10.01, 10.01)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.533 W/kg

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

Reference Value = 4.333 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.672 W/kg

SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.297 W/kg

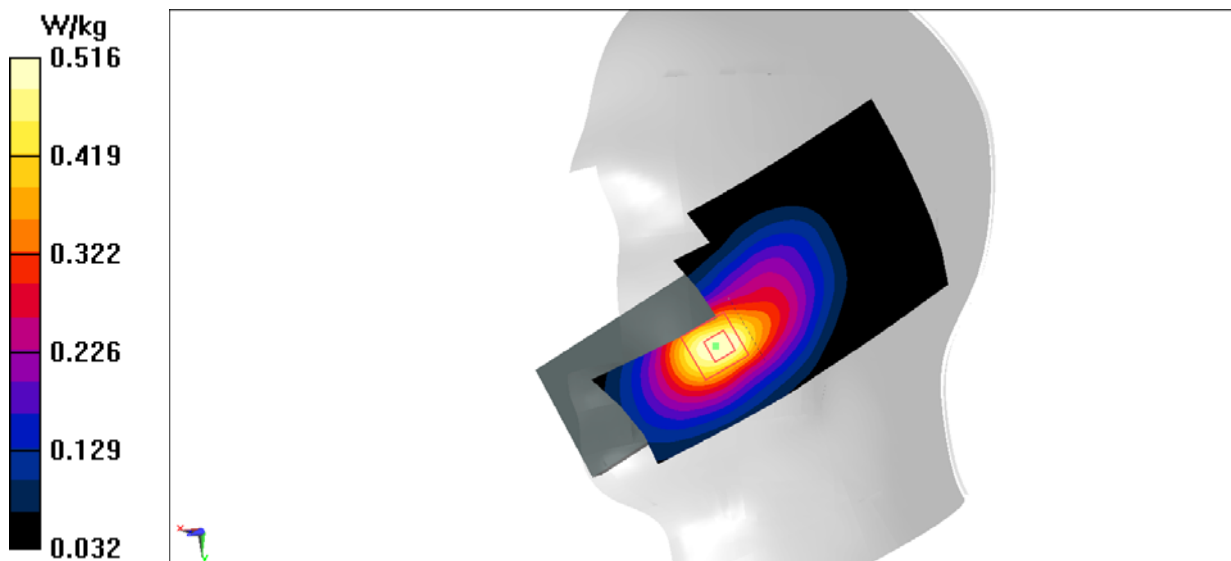Maximum value of SAR (measured) = 0.516 W/kg

Figure I.5

WCDMA850_826.4_Rear closed

Date: 13/1/2017

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.965 mho/m; εr = 56.095; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: WCDMA850 Frequency: 826.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (131x71x1): 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 = 17.85 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.196 W/kg

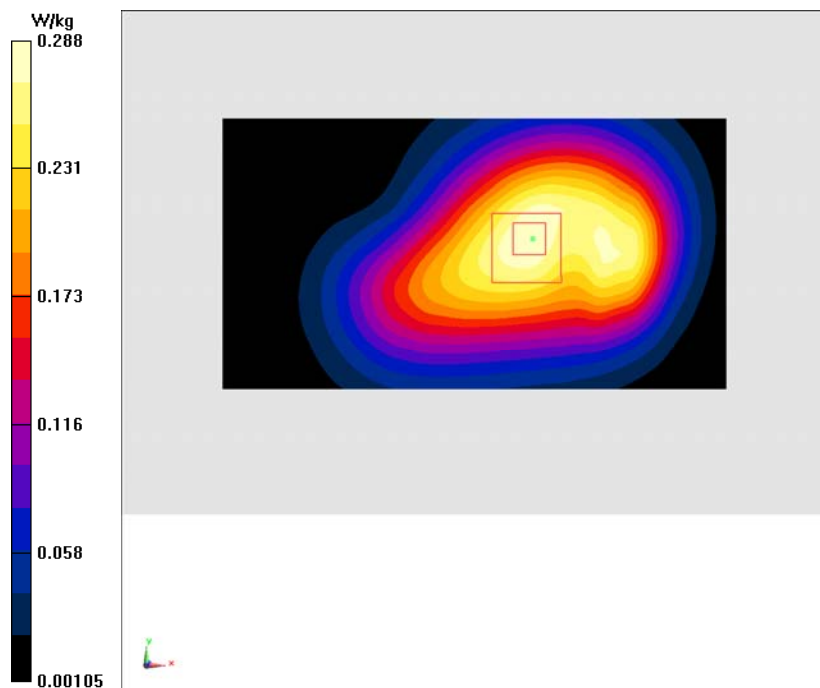Maximum value of SAR (measured) = 0.314 W/kg

Figure I.6

WCDMA1700_1752.6_Left Cheek

Date: 14/1/2017
Electronics: DAE4 Sn1331
Medium: Head 1750 MHz
Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1353 mho/m; εr = 40.29; ρ = 1000 kg/m³
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: WCDMA1700 Frequency: 1752.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.37, 8.37, 8.37)

Area Scan (71x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.312 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.541 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.487 W/kg
SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.208 W/kg
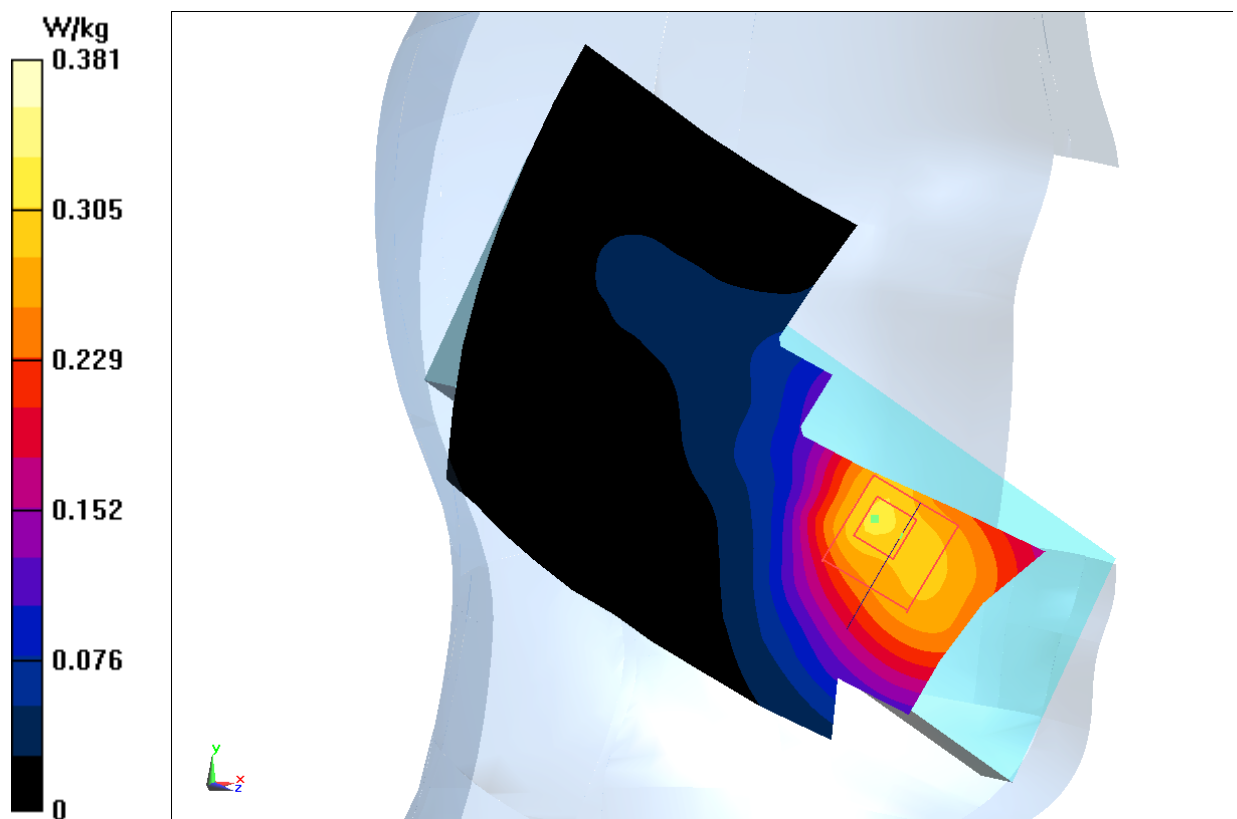Maximum value of SAR (measured) = 0.381 W/kg

Figure I.7

WCDMA1700_1752.6_Rear open

Date: 14/1/2017

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.513 mho/m; εr = 53.41; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: WCDMA1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(8.18, 8.18, 8.18)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 18.10 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.510 W/kg

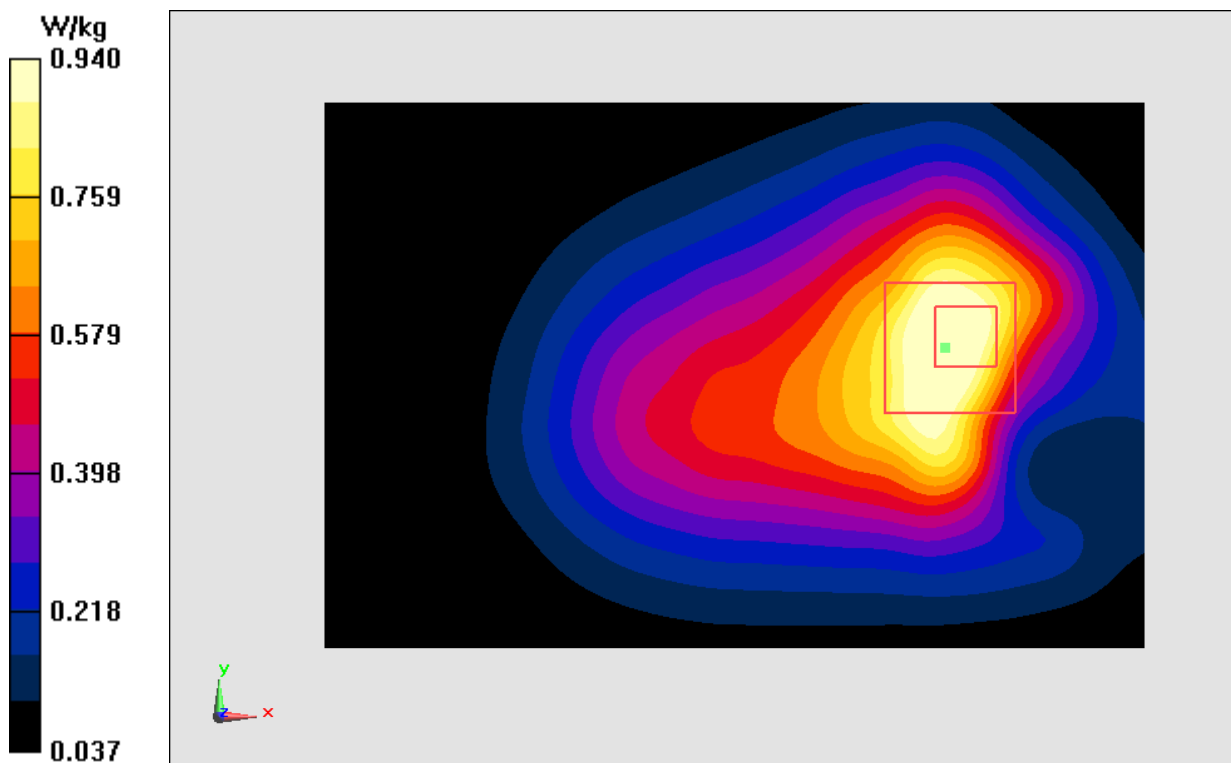Maximum value of SAR (measured) = 0.940 W/kg

Figure I.8

WCDMA1900_1880_Left Cheek

Date: 15/1/2017
Electronics: DAE4 Sn1331
Medium: Head 1900 MHz
Medium parameters used: f = 1880 MHz; σ = 1.361 mho/m; εr = 40.451; ρ = 1000 kg/m³
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: WCDMA1900 Frequency: 1880 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.10, 8.10, 8.10)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.206 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.912 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.297 W/kg
SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.122 W/kg
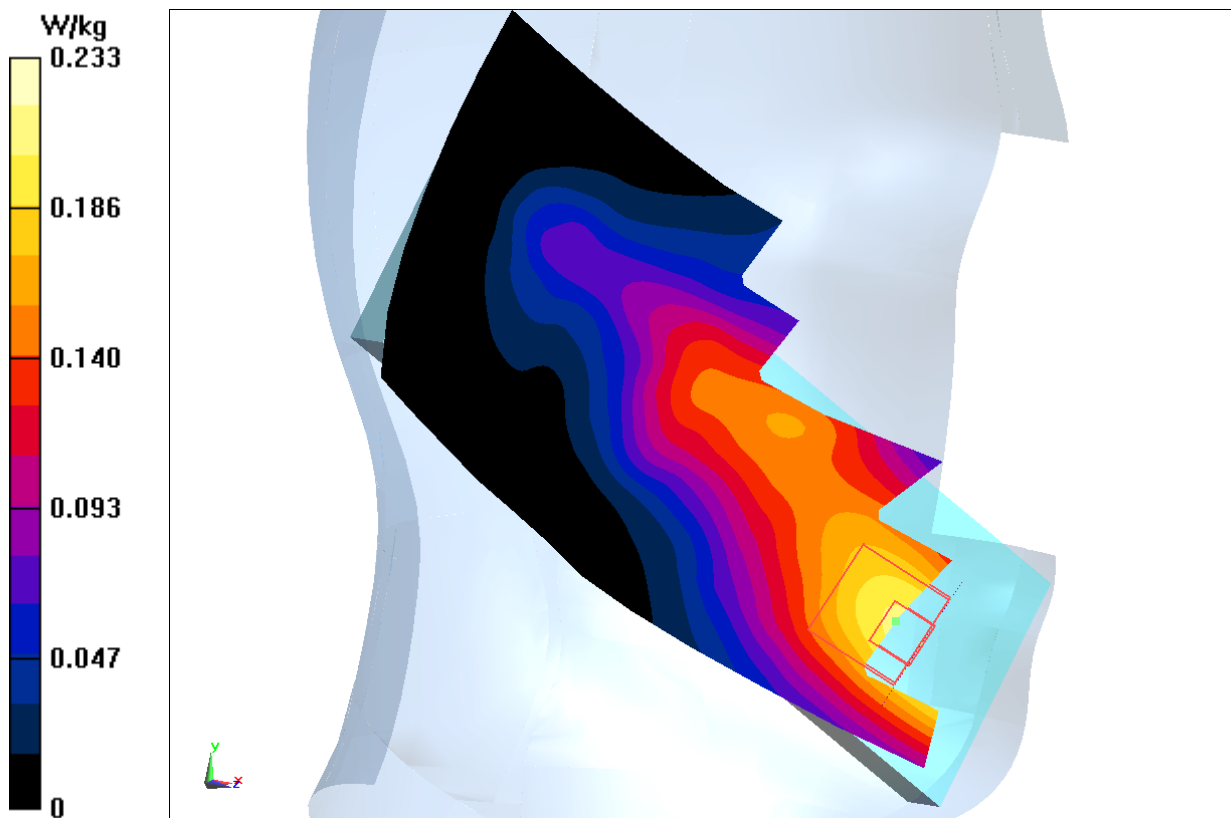Maximum value of SAR (measured) = 0.233 W/kg

Figure I.9

WCDMA1900_1852.4_Rear open

Date: 15/1/2017

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.502 mho/m; εr = 51.249; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: WCDMA1900 Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

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

Reference Value = 15.93 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.853 W/kg; SAR(10 g) = 0.529 W/kg

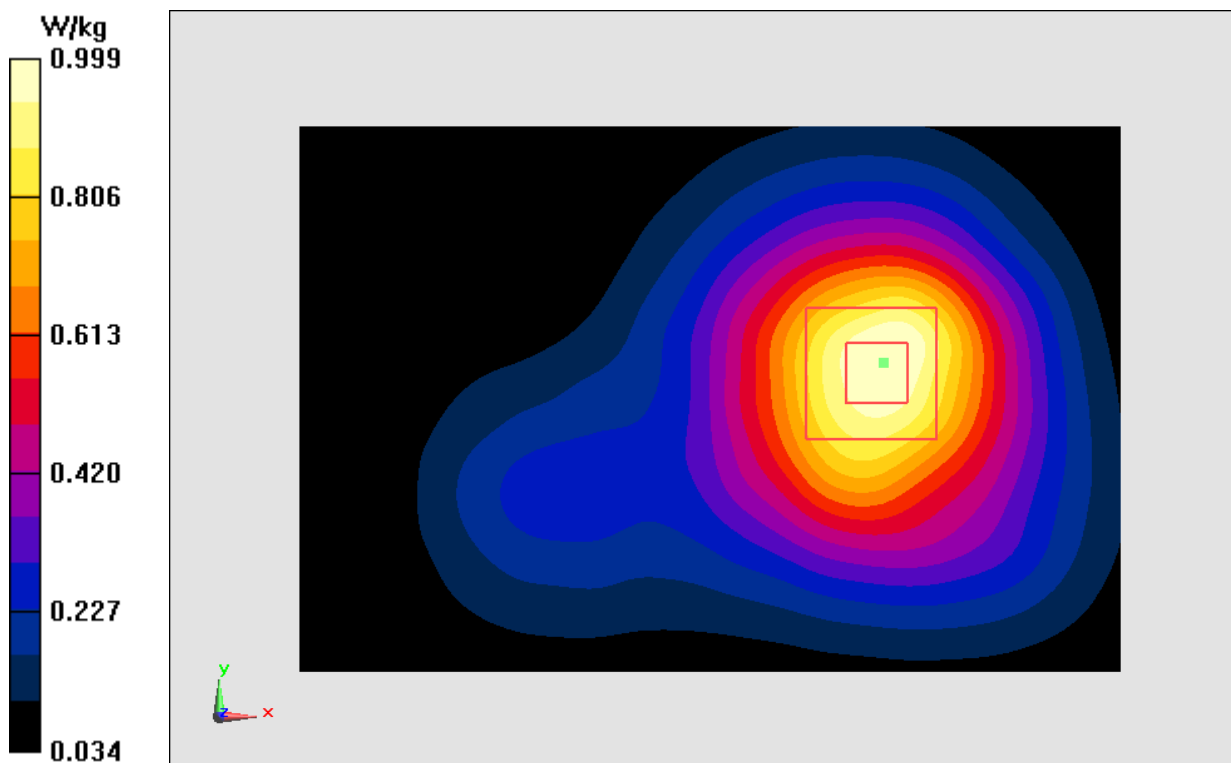Maximum value of SAR (measured) = 0.999 W/kg

Figure I.10

LTEBand2_1860_Left Cheek

Date: 15/1/2017
Electronics: DAE4 Sn1331
Medium: Head 1900 MHz
Medium parameters used (interpolated): f = 1860 MHz; σ = 1.341 mho/m; εr = 40.465; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: LTEBand2 Frequency: 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(8.10, 8.10, 8.10)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.268 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.737 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.373 W/kg
SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.154 W/kg
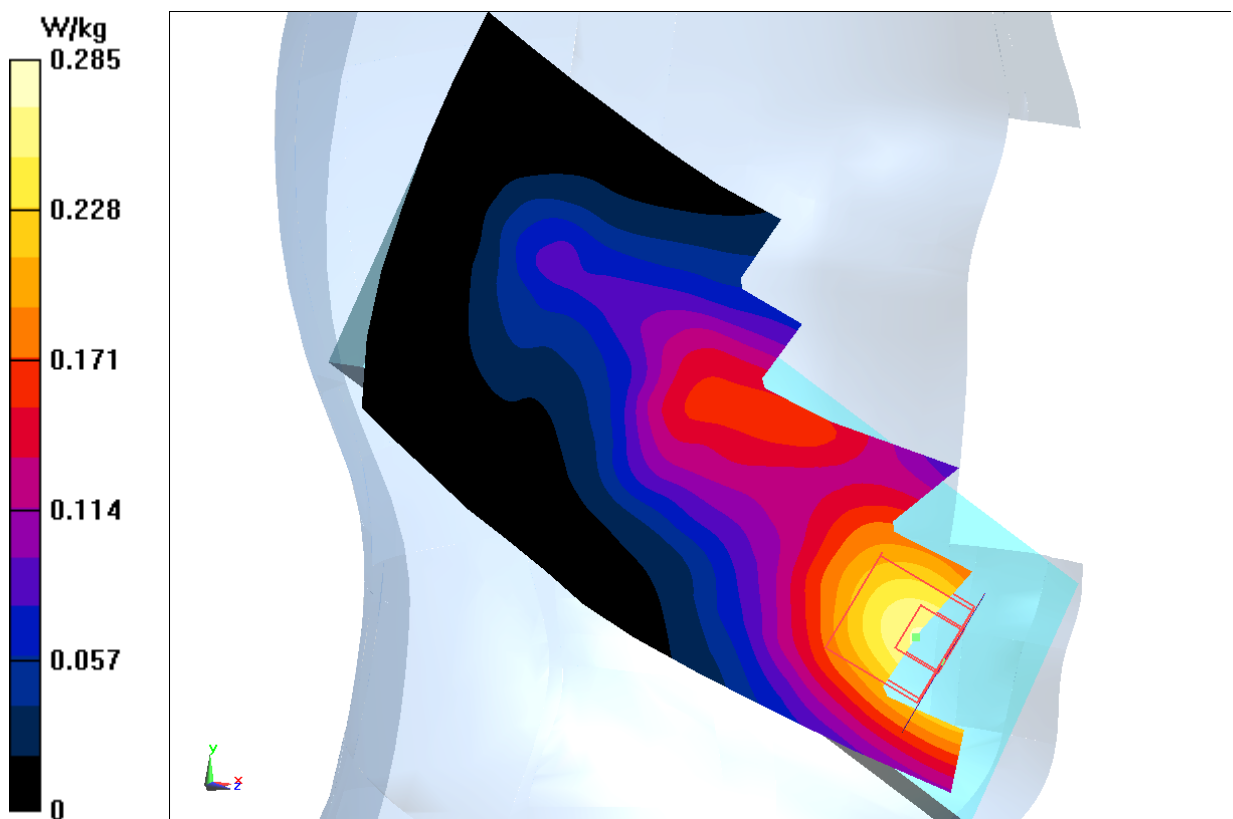Maximum value of SAR (measured) = 0.285 W/kg

Figure I.11

LTEBand2_1860_Rear closed

Date: 15/1/2017

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1860 MHz; σ = 1.522 mho/m; εr = 52.234; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand2 Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 20.55 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.975 W/kg

SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.378 W/kg

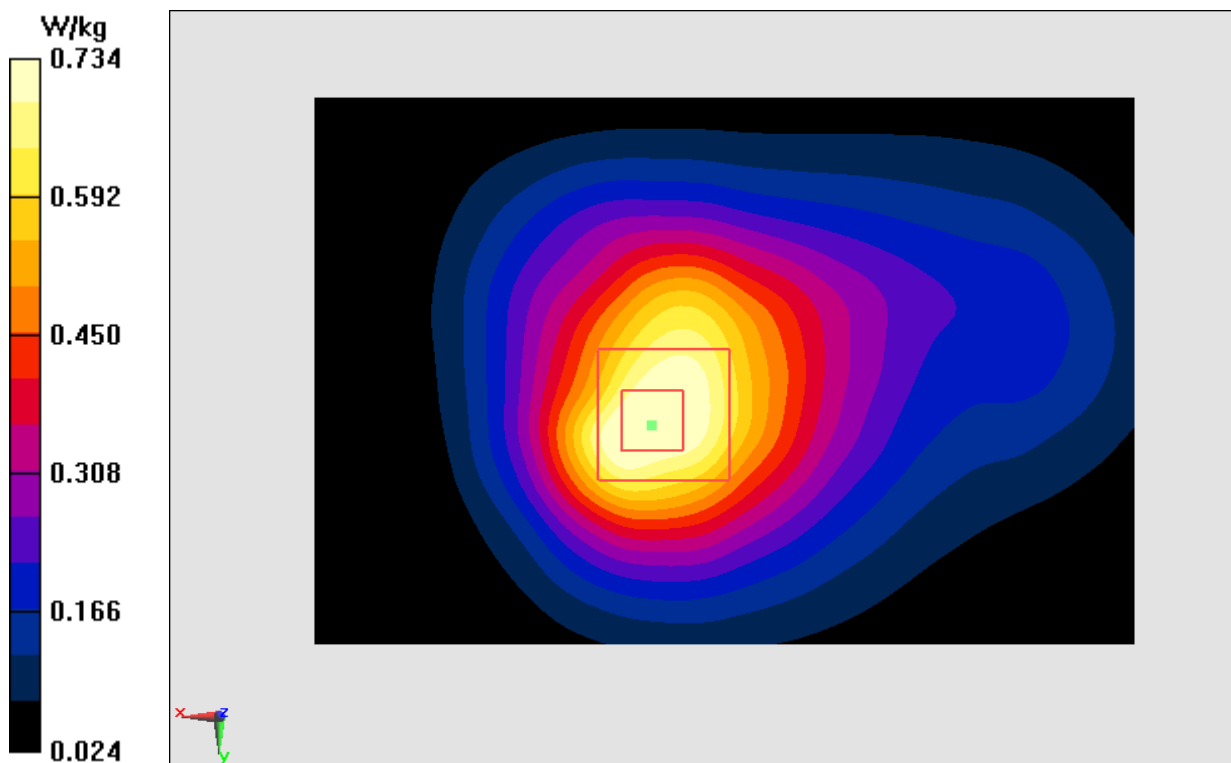Maximum value of SAR (measured) = 0.734 W/kg

Figure I.12

LTEBand4_1745_Left Cheek

Date: 14/1/2017

Electronics: DAE4 Sn1331

Medium: Head 1750 MHz

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.351 mho/m; εr = 40.31; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand4 Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(8.37, 8.37, 8.37)

Area Scan (71x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.372 W/kg

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

Reference Value = 3.731 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.222 W/kg

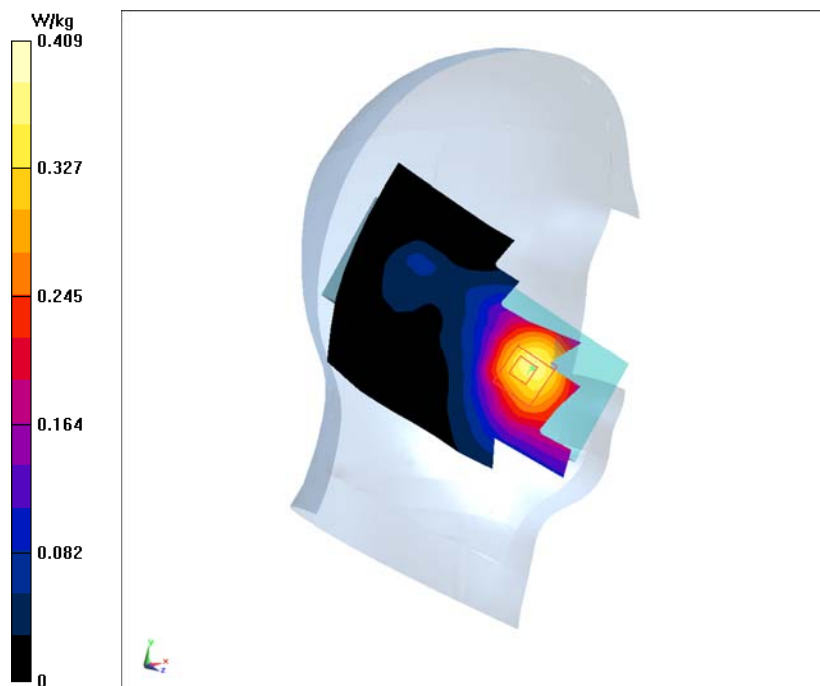Maximum value of SAR (measured) = 0.409 W/kg

Figure I.13

LTEBand4_1745_Rear open

Date: 14/1/2017

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used (interpolated): f = 1745 MHz; σ = 1.512 mho/m; εr = 53.42; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand4 Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(8.18, 8.18, 8.18)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.20 W/kg

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

Reference Value = 18.88 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.965 W/kg; SAR(10 g) = 0.596 W/kg
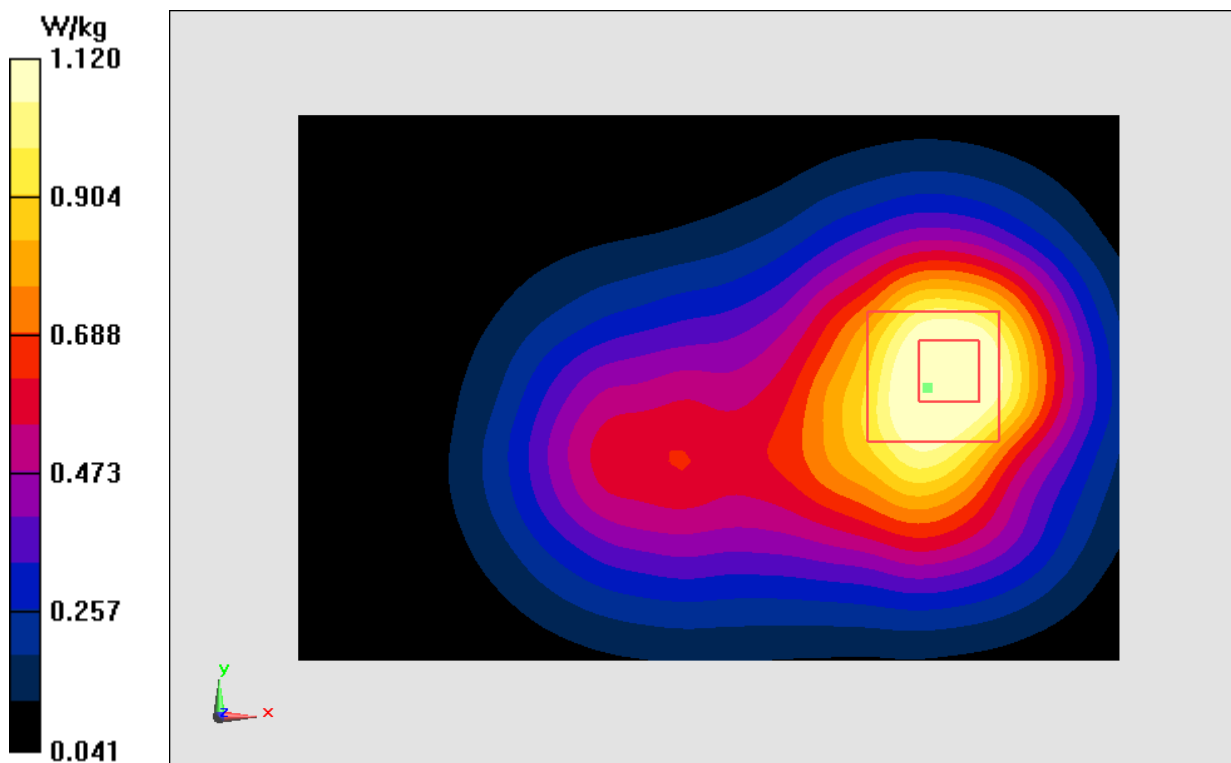
Maximum value of SAR (measured) = 1.12 W/kg

Figure I.14

LTEBand5_836.5_Right Cheek

Date: 13/1/2017

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.919$ mho/m; $\varepsilon r = 41.515$; $\rho = 1000$ kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand5 Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(10.01, 10.01, 10.01)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.543 W/kg

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

Reference Value = 3.973 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.686 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.303 W/kg
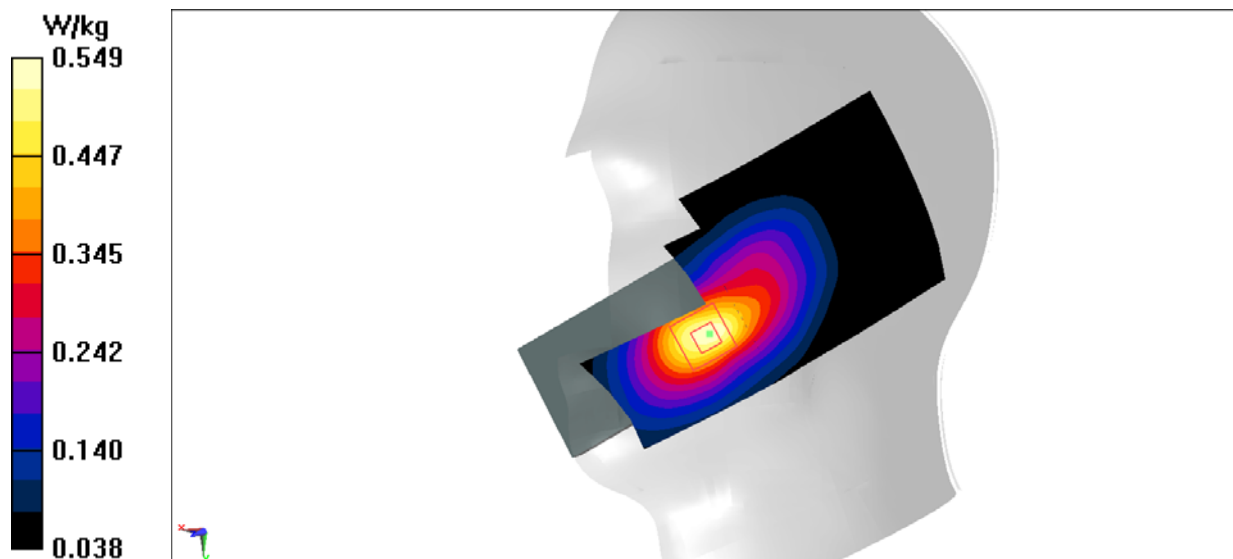
Maximum value of SAR (measured) = 0.549 W/kg

Figure I.15

LTEBand5_836.5_Rear closed

Date: 13/1/2017

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.971 mho/m; εr = 56.065; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand5 Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (131x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.305 W/kg

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

Reference Value = 18.25 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.409 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.330 W/kg

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

Reference Value = 18.25 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.197 W/kg
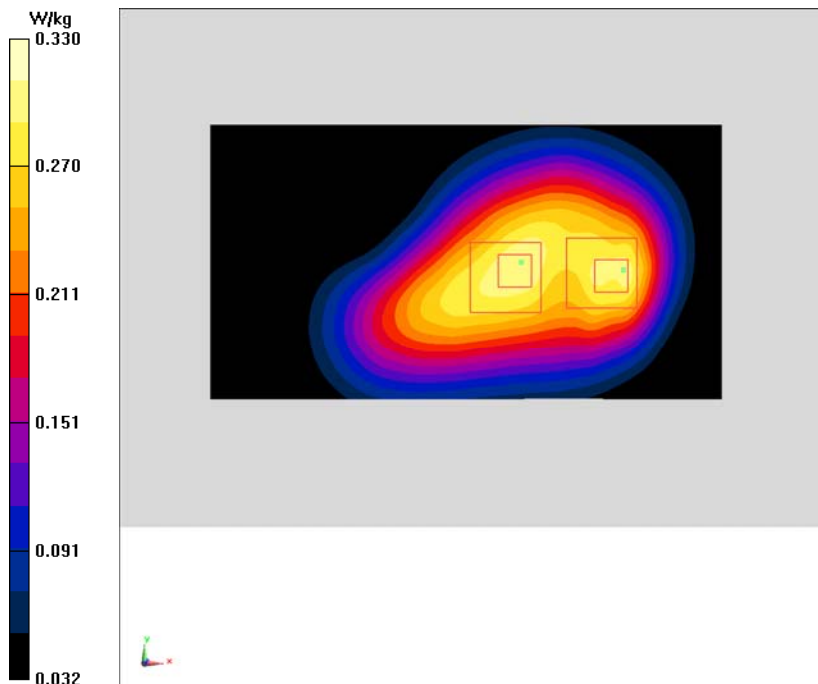
Maximum value of SAR (measured) = 0.339 W/kg

Figure I.16

LTEBand7_2560_Left Cheek

Date: 17/1/2017

Electronics: DAE4 Sn1331

Medium: Head 2600 MHz

Medium parameters used (interpolated): f = 2560 MHz; σ = 1.941 mho/m; εr = 38.05 ; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand7 Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.21, 7.21, 7.21)

Area Scan (61x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

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

Reference Value = 3.880 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.150 W/kg

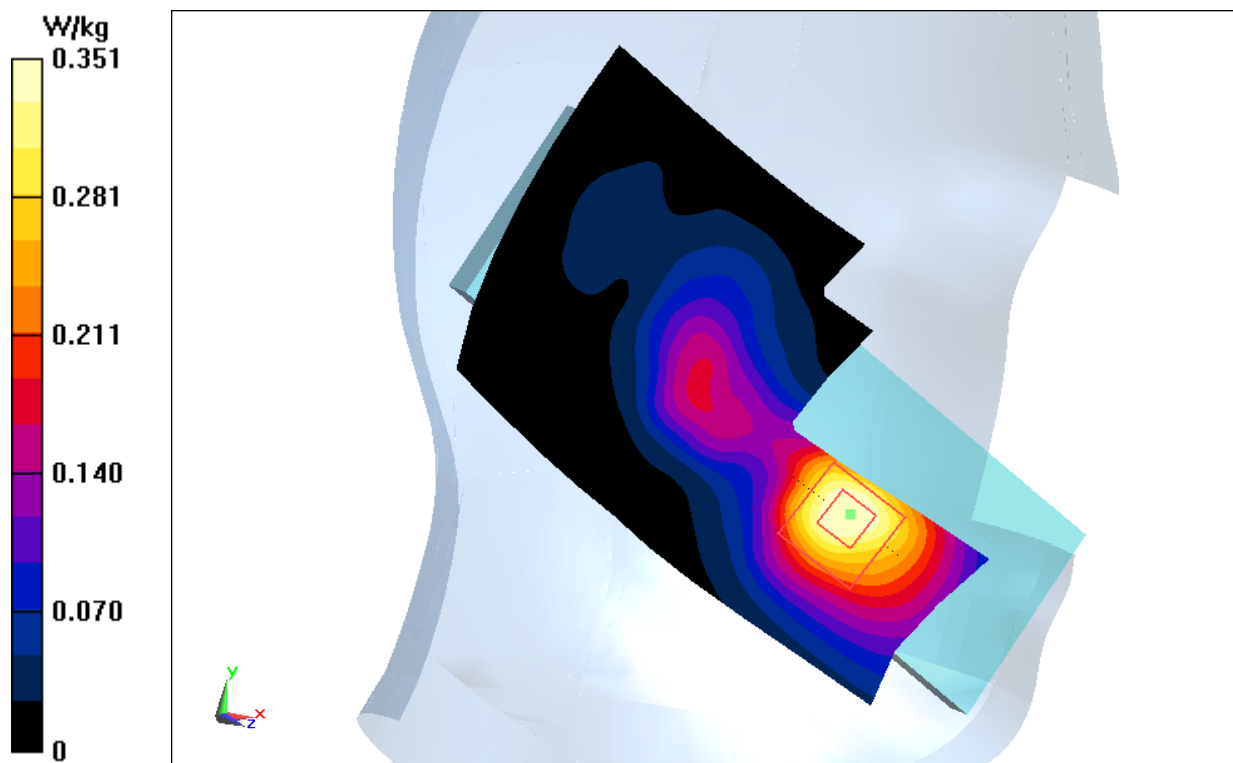Maximum value of SAR (measured) = 0.351 W/kg

Figure I.17

LTEBand7_2560_Rear closed

Date: 17/1/2017

Electronics: DAE4 Sn1331

Medium: Body 2600 MHz

Medium parameters used (interpolated): f = 2560 MHz; σ = 2.111 mho/m; εr = 52.325; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand7 Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.03, 7.03, 7.03)

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

Maximum value of SAR (interpolated) = 0.678 W/kg

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

Reference Value = 10.91 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.240 W/kg

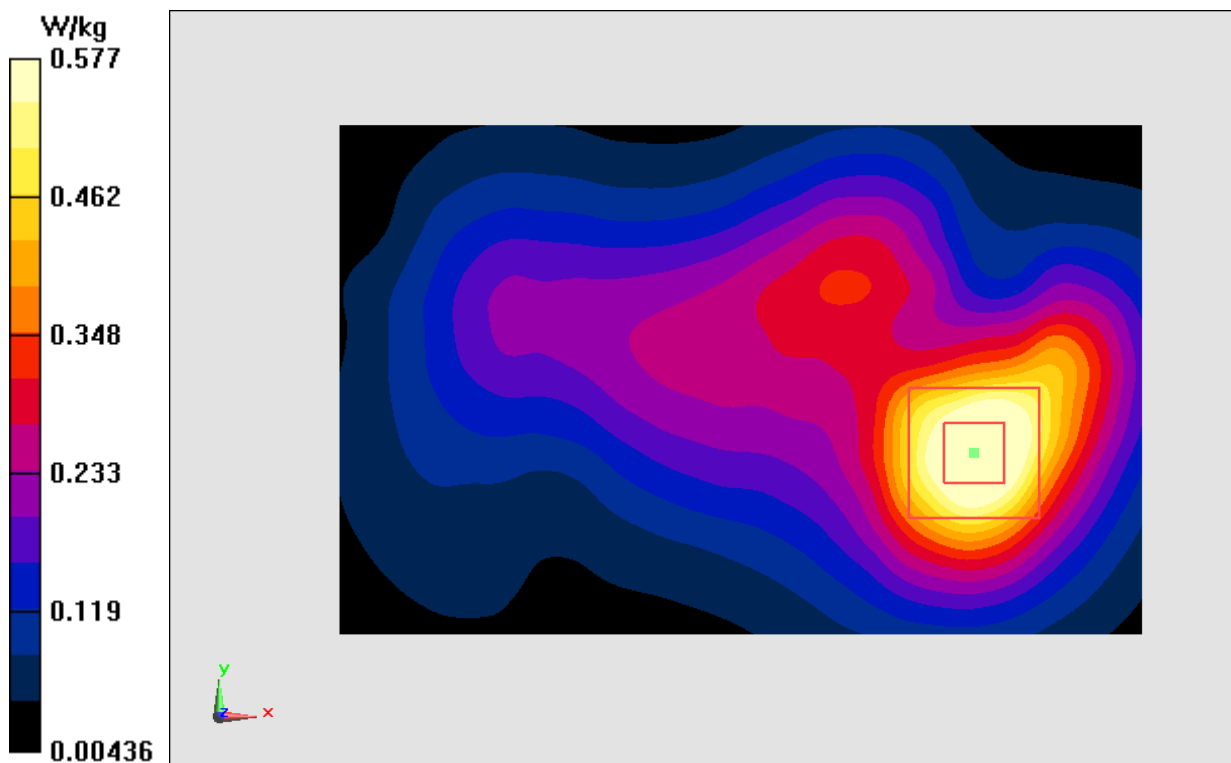Maximum value of SAR (measured) = 0.577 W/kg

Figure I.18

LTEBand12_704_Left Cheek

Date: 12/1/2017
Electronics: DAE4 Sn1331
Medium: Head 750 MHz
Medium parameters used (interpolated): f = 704 MHz; σ = 0.859 mho/m; εr = 42.31; ρ = 1000 kg/m³
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: LTEBand12 Frequency: 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(10.47, 10.47, 10.47)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.301 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.459 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.365 W/kg
SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.182 W/kg
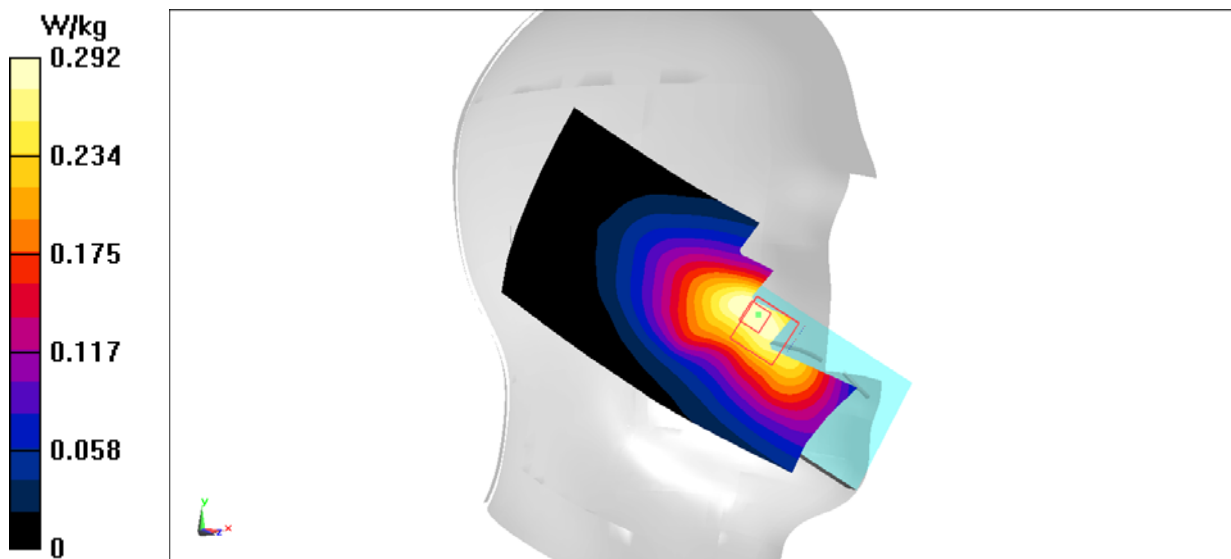Maximum value of SAR (measured) = 0.292 W/kg

Figure I.19

LTEBand12_704_Rear open

Date: 12/1/2017

Electronics: DAE4 Sn1331

Medium: Body 750 MHz

Medium parameters used (interpolated): f = 704 MHz; σ = 0.896 mho/m; εr = 56.73; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: LTEBand12 Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(9.93, 9.93, 9.93)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.611 W/kg

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

Reference Value = 22.05 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.722 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.393 W/kg
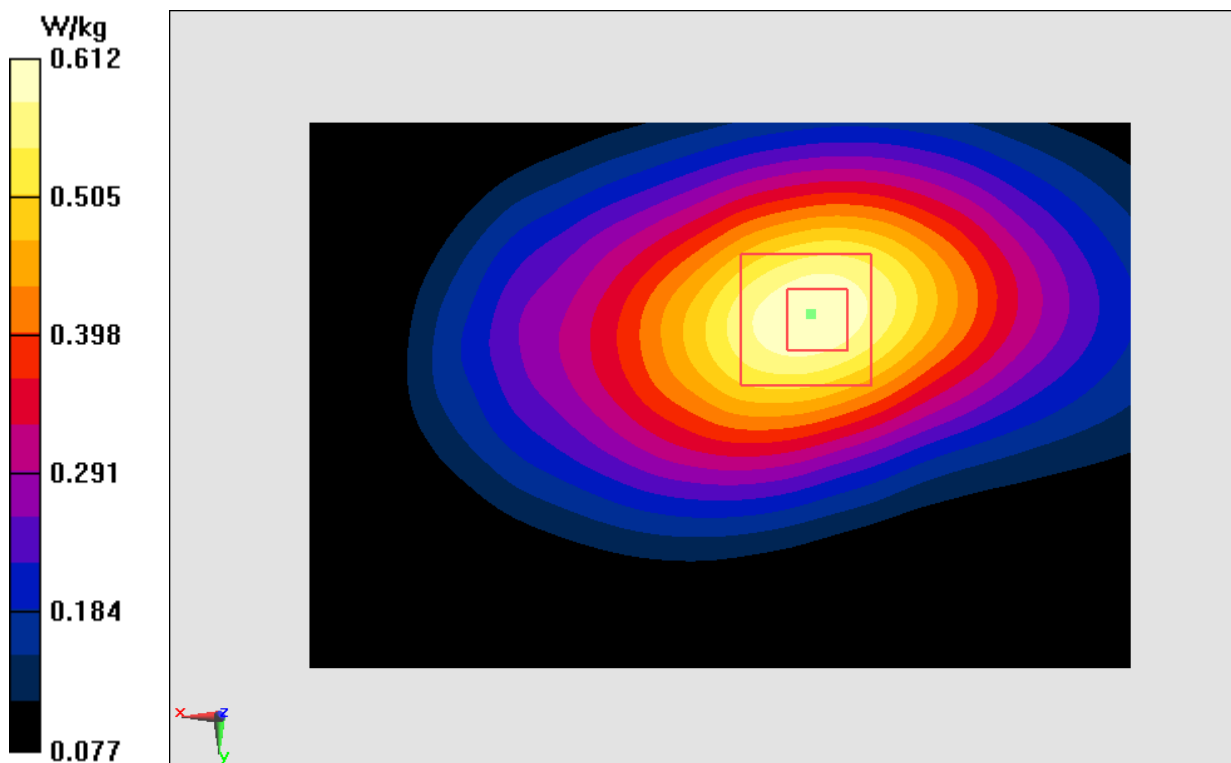
Maximum value of SAR (measured) = 0.612 W/kg

Figure I.20

BLUETOOTH HEAD

Date: 16/1/2017
Electronics: DAE4 Sn1331
Medium: Head 2450 MHz
Medium parameters used (interpolated): f = 2402 MHz; σ = 1.793 mho/m; $ε_r$ = 38.56; ρ = 1000 kg/m^3
Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC
Communication System: Bluetooth Frequency: 2402 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7307 ConvF(7.36, 7.36, 7.36)

Area Scan (71x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0177 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.4040 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.0270 W/kg
SAR(1 g) = 0.00517 W/kg; SAR(10 g) = 0.00197 W/kg
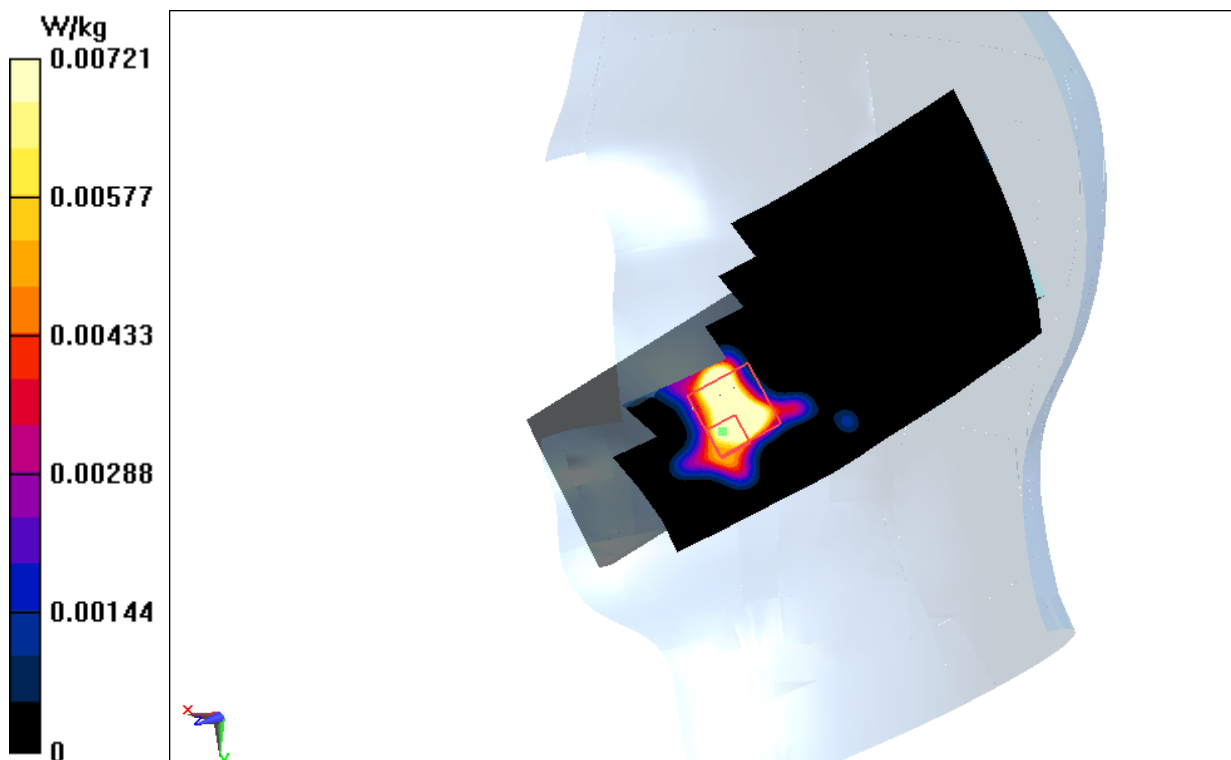Maximum value of SAR (measured) = 0.00721 W/kg

Figure I.21

WLAN2.4GHz_2437_Right Cheek

Date: 16/1/2017

Electronics: DAE4 Sn1331

Medium: Head 2450 MHz

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.813 mho/m; ε_r = 38.44; ρ = 1000 kg/m^3

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: WLAN2.4GHz Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.36, 7.36, 7.36)

Area Scan (71x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

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

Reference Value = 1.512 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.070 W/kg

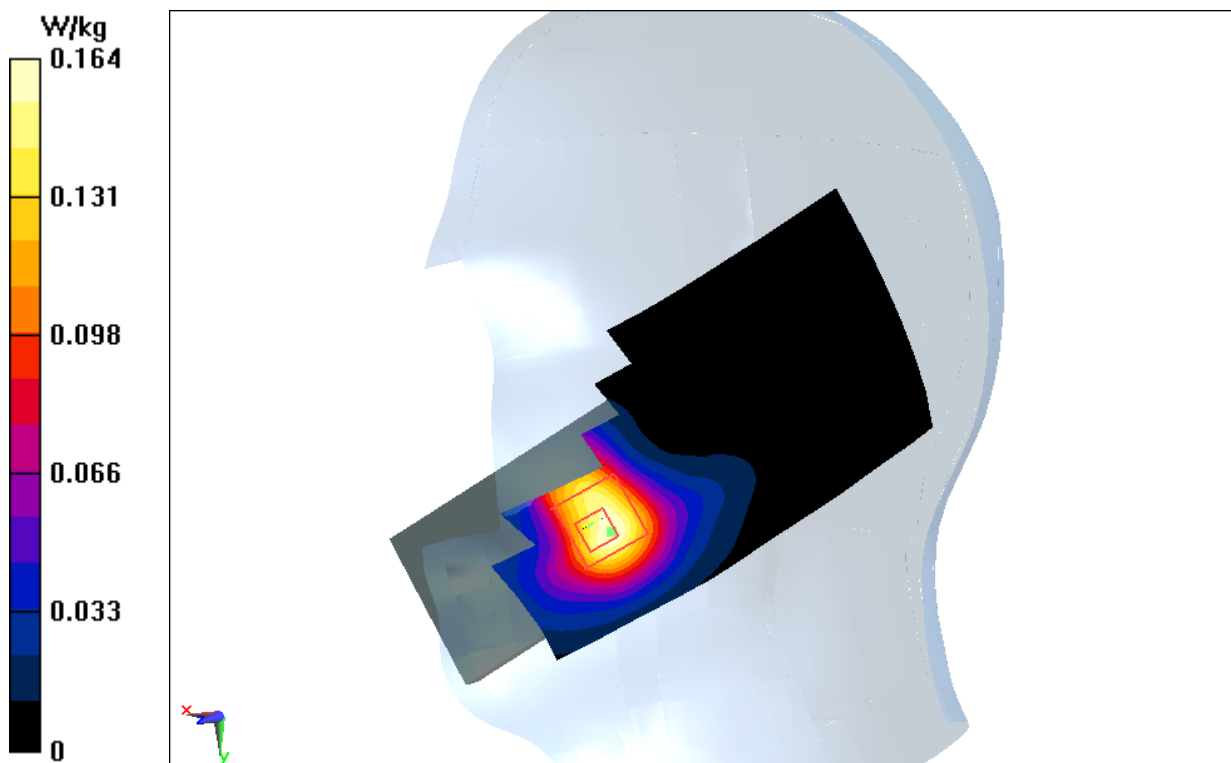Maximum value of SAR (measured) = 0.164 W/kg

Figure I.22

WLAN2.4GHz_2437_Rear open

Date: 16/1/2017

Electronics: DAE4 Sn1331

Medium: Body 2450 MHz

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.972 mho/m; εr = 51.93; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC,   Liquid Temperature: 22.5ºC

Communication System: WLAN2.4GHz Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(7.22, 7.22, 7.22)

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

Maximum value of SAR (interpolated) = 0.0574 W/kg

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

Reference Value = 3.116 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.019 W/kg

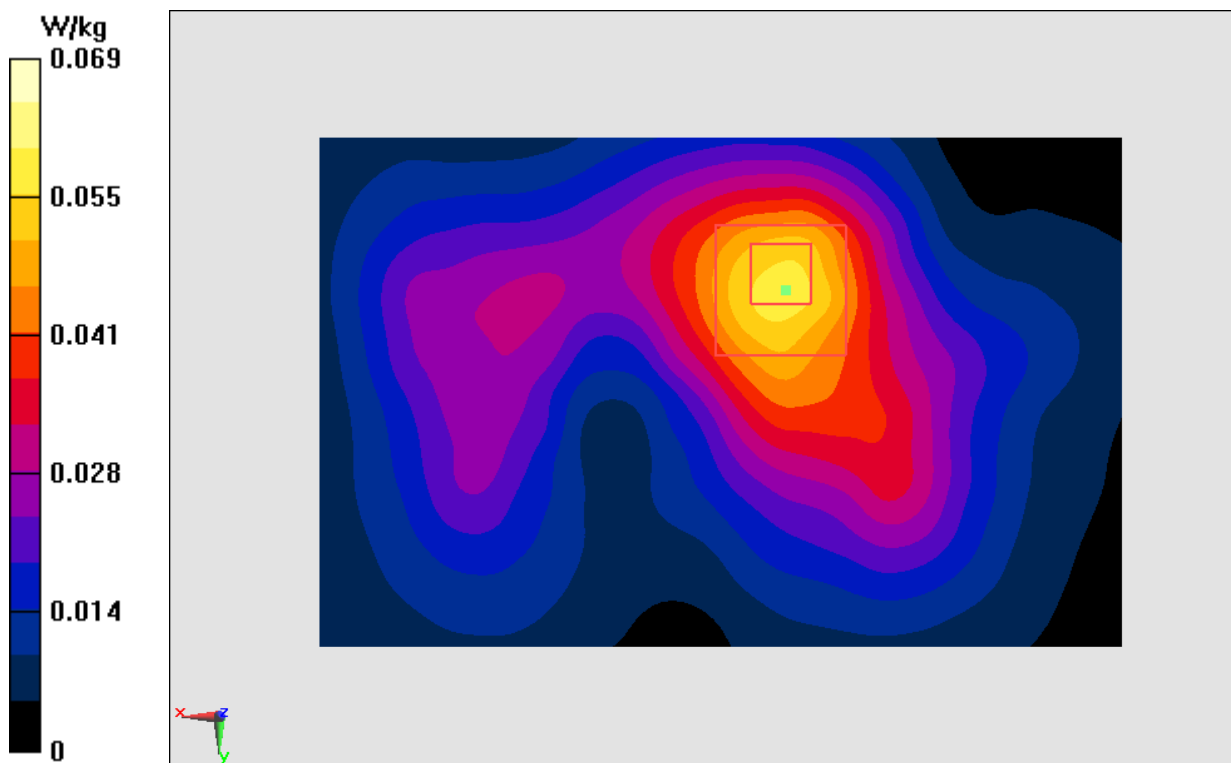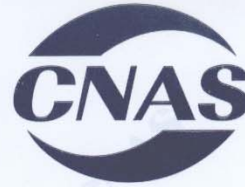Maximum value of SAR (measured) = 0.0689 W/kg

Figure I.23

ANNEX J   Accreditation Certificate

China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L0570)

Telecommunication Technology Labs,

Academy of Telecommunication Research, MIIT

No.52, Huayuan North Road, Haidian District, Beijing, China

No.51, Xueyuan Road, Haidian District, Beijing, China

TCL International E City, No. 1001 Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province

is accredited in accordance with 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 to undertake testing and calibration service as described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule form an integral part of this certificate.

Date of Issue：2015-11-13

Date of Expiry：2017-06-19

Date of Initial Accreditation：1998-07-03

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA). The validity of the certificate can be checked on CNAS website at http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml