

WCDMA 1900 Right Cheek High

Date: 2016-1-23

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.435$ mho/m; $\epsilon_r = 39.976$; $\rho = 1000$ kg/m³

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

Maximum value of SAR (interpolated) = 0.210 W/kg

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

Reference Value = 6.014 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.107 W/kg

Maximum value of SAR (measured) = 0.202 W/kg

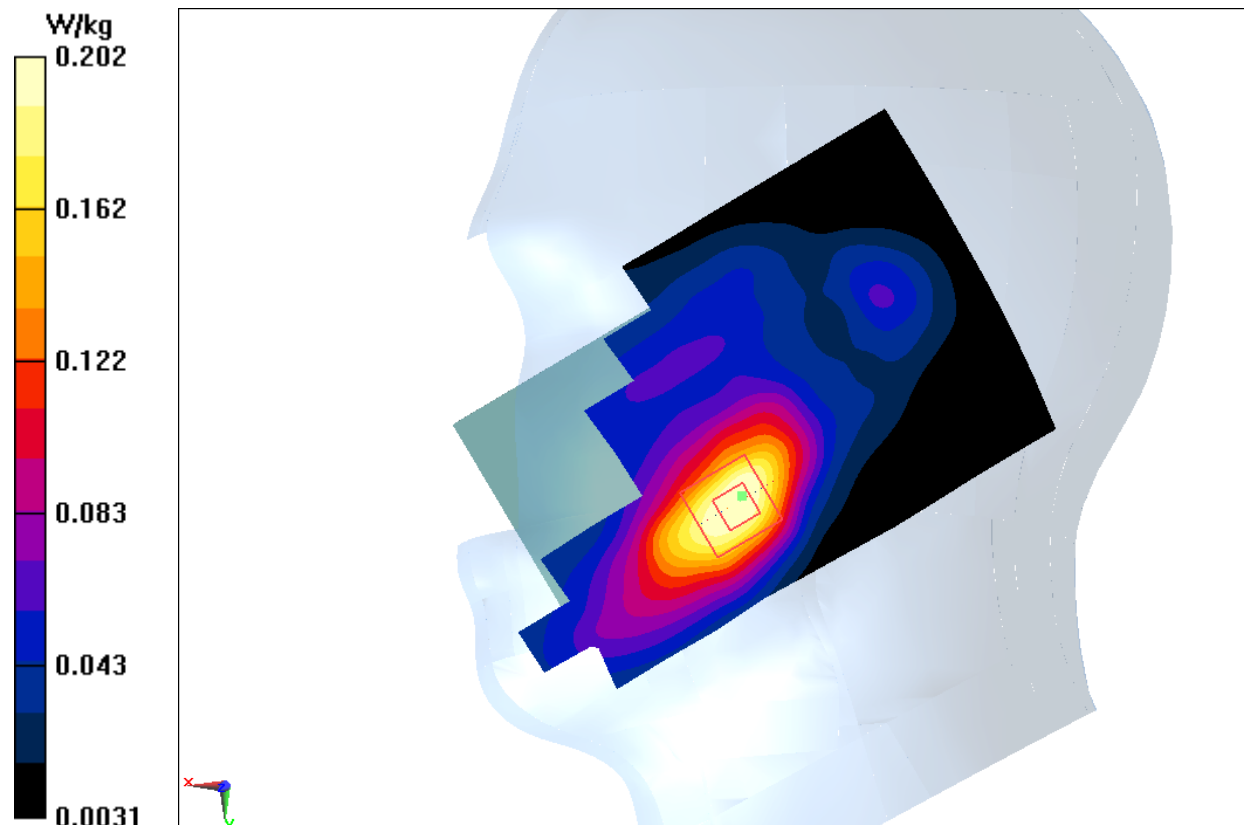


Fig.7 WCDMA1900

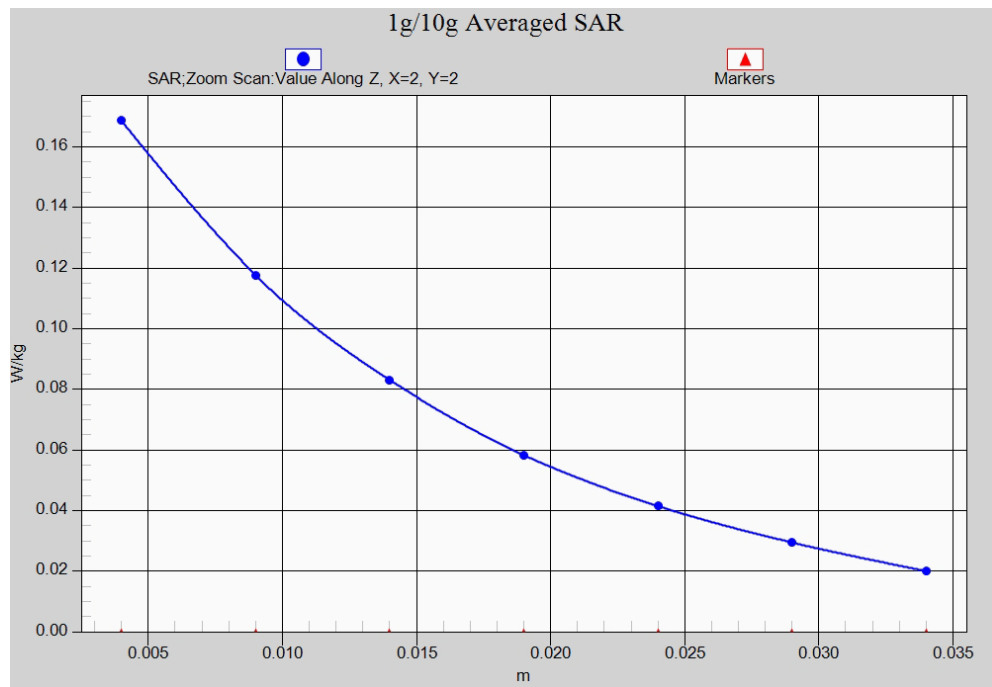


Fig. 7-1 Z-Scan at power reference point (WCDMA850)

WCDMA 1900 Body Bottom High

Date: 2016-1-23

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.567$ mho/m; $\epsilon_r = 52.732$; $\rho = 1000$ kg/m³

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(7.74, 7.74, 7.74)

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

Maximum value of SAR (interpolated) = 1.30 W/kg

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

Reference Value = 24.10 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.560 W/kg

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

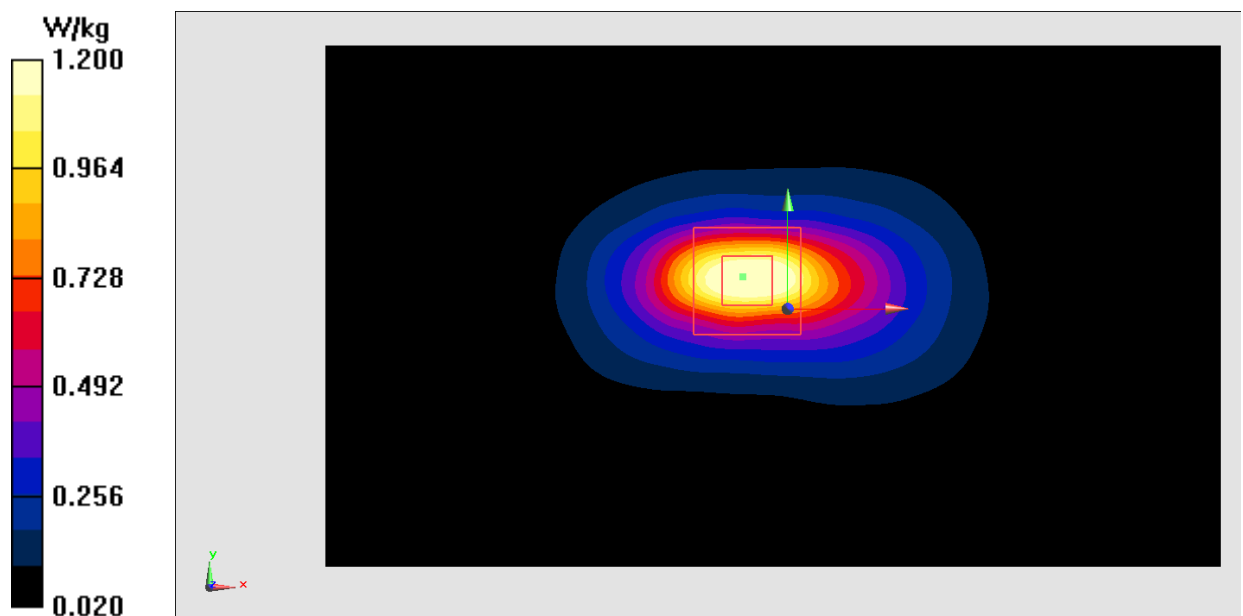


Fig.8 WCDMA1900

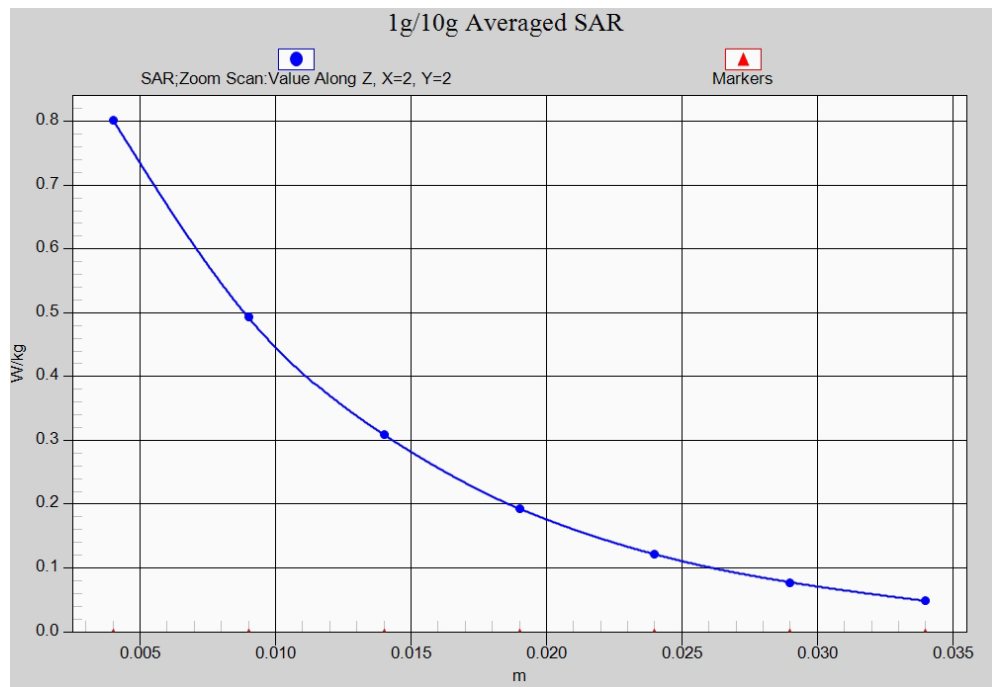


Fig. 8-1 Z-Scan at power reference point (WCDMA1900)

LTE Band2 Right Cheek High with QPSK_20M_1RB_High

Date: 2016-1-23

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.436$ mho/m; $\epsilon_r = 40.663$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°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 (71x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.215 W/kg

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

Reference Value = 5.674 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.266 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.111 W/kg

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

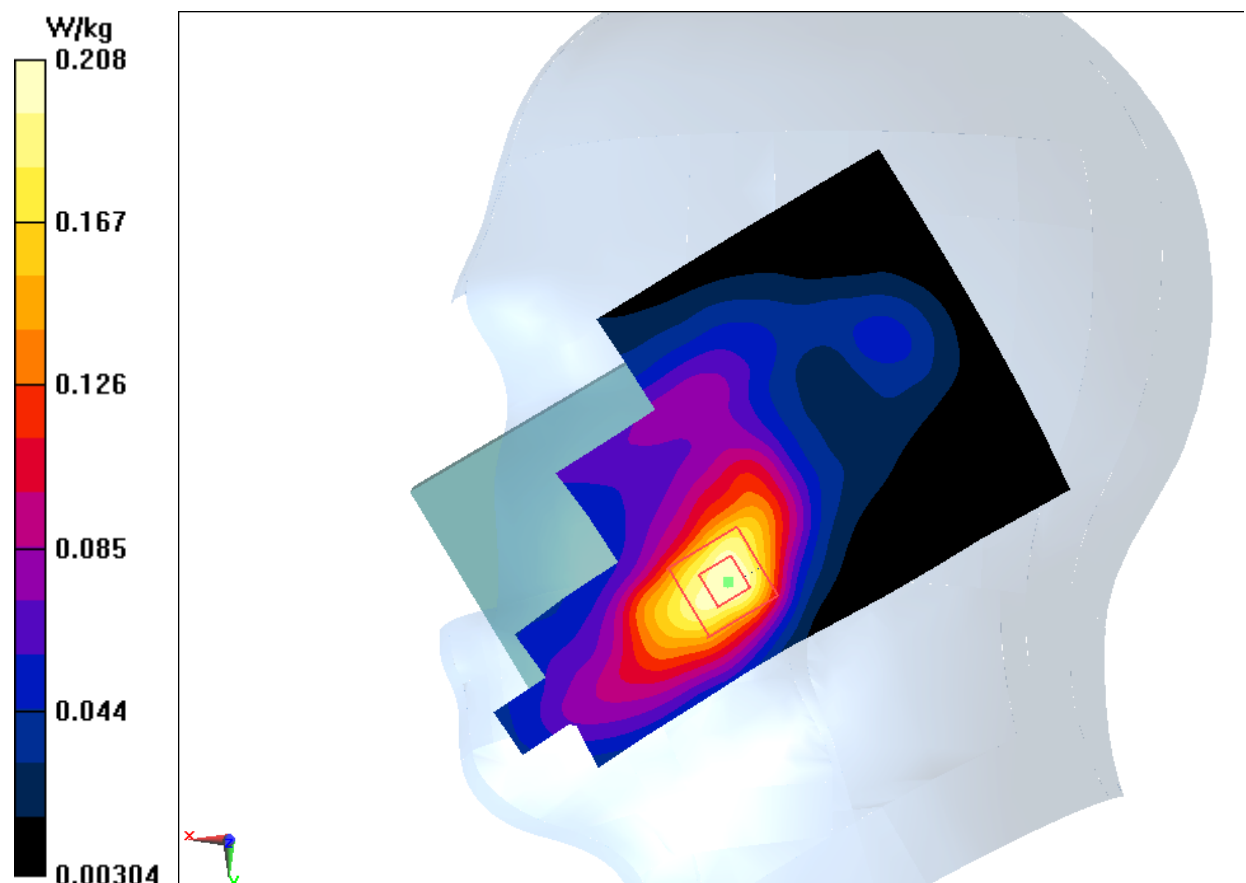


Fig.9 LTE Band2

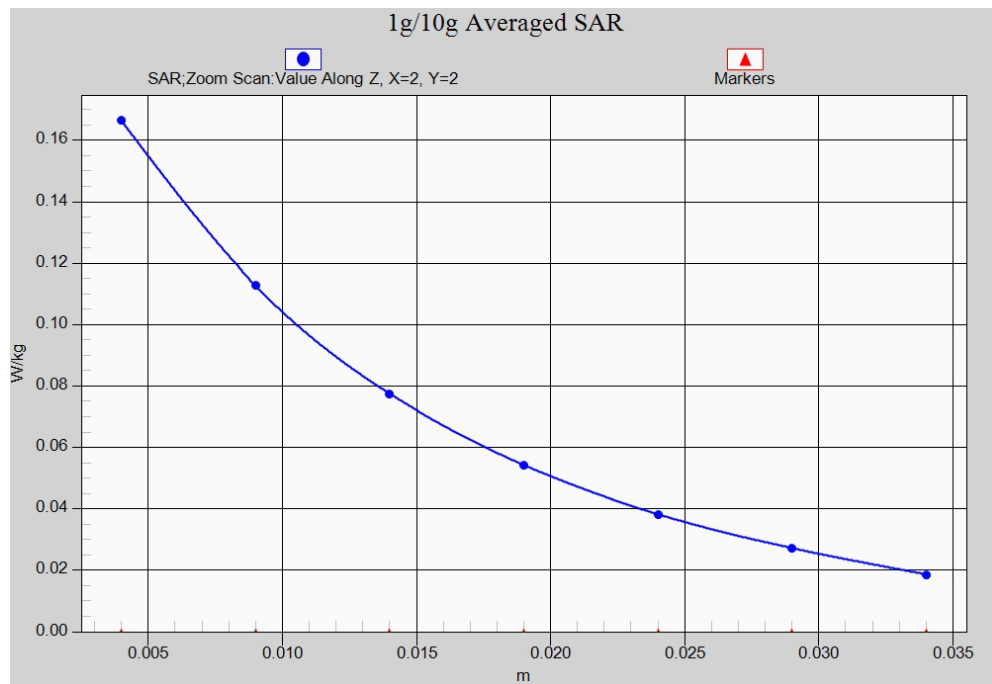


Fig. 9-1 Z-Scan at power reference point (LTE Band2)

LTE Band2 Body Rear High with QPSK_20M_1RB_High

Date: 2016-1-23

Electronics: DAE4 Sn777

Medium: Body 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.557$ mho/m; $\epsilon_r = 52.93$; $\rho = 1000$ kg/m³

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) = 1.51 W/kg

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

Reference Value = 9.107 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.605 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



Fig.10 LTE Band2

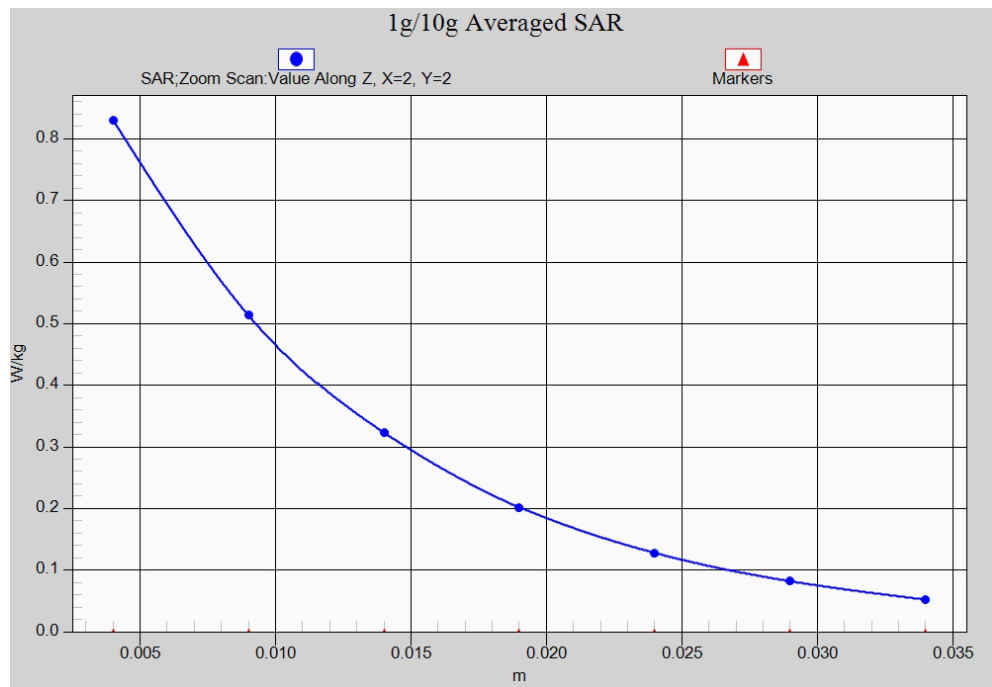


Fig. 10-1 Z-Scan at power reference point (LTE Band2)

LTE Band4 Right Cheek High with QPSK_20M_1RB_Low

Date: 2016-1-22

Electronics: DAE4 Sn777

Medium: Head 1750 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.475$ mho/m; $\epsilon_r = 39.643$; $\rho = 1000$ kg/m³

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

Maximum value of SAR (interpolated) = 0.224 W/kg

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

Reference Value = 5.535 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.223 W/kg

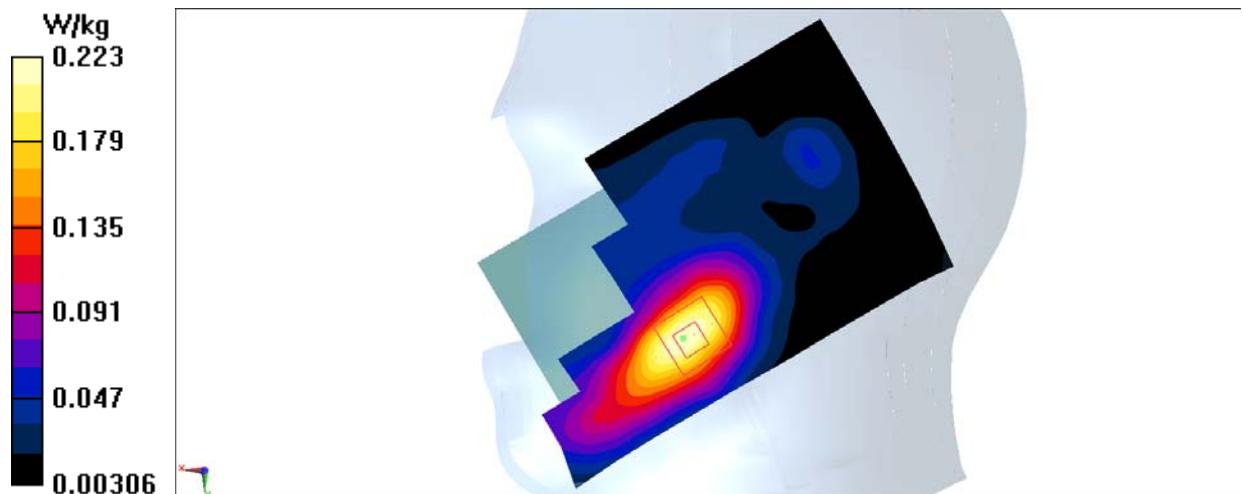


Fig.11 LTE Band4

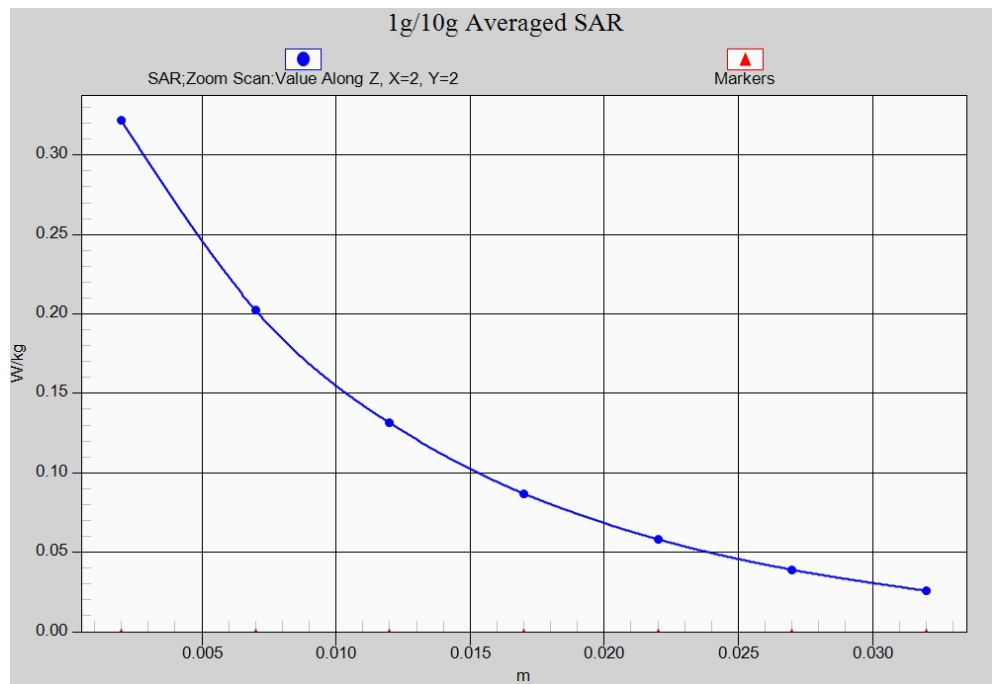


Fig. 11-1 Z-Scan at power reference point (LTE Band4)

LTE Band4 Body Rear High with QPSK_20M_1RB_Low

Date: 2016-1-22

Electronics: DAE4 Sn777

Medium: Body 1750 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.493$ mho/m; $\epsilon_r = 52.885$; $\rho = 1000$ kg/m³

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(7.96, 7.96, 7.96)

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

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

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

Reference Value = 11.79 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.626 W/kg

Maximum value of SAR (measured) = 1.24 W/kg

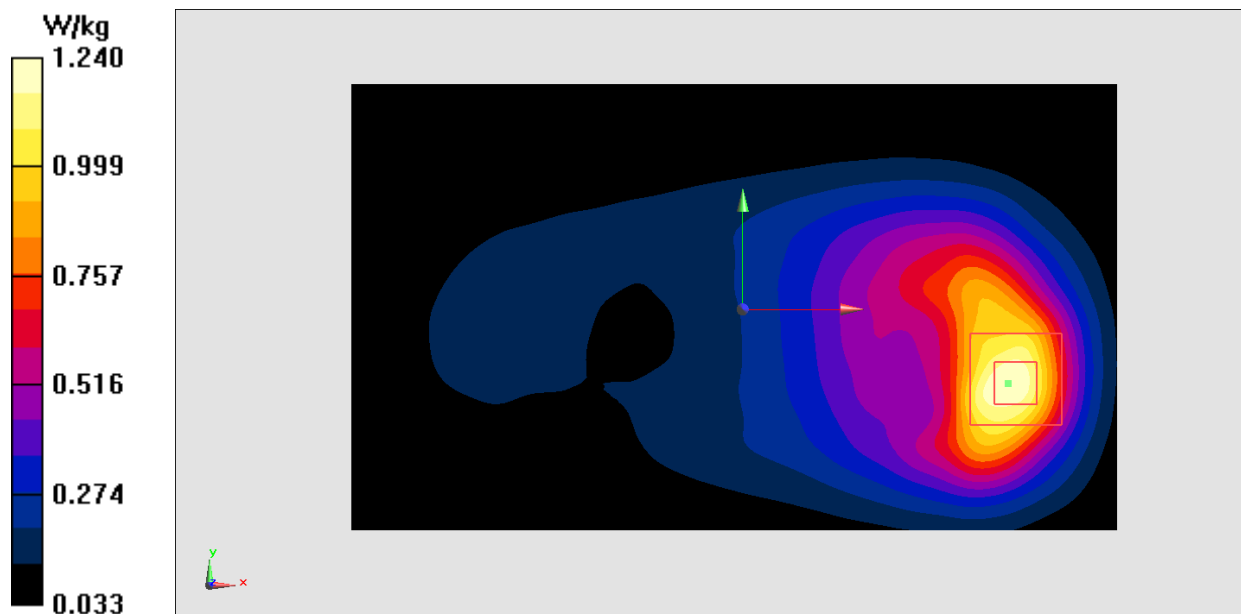


Fig.12 LTE Band4

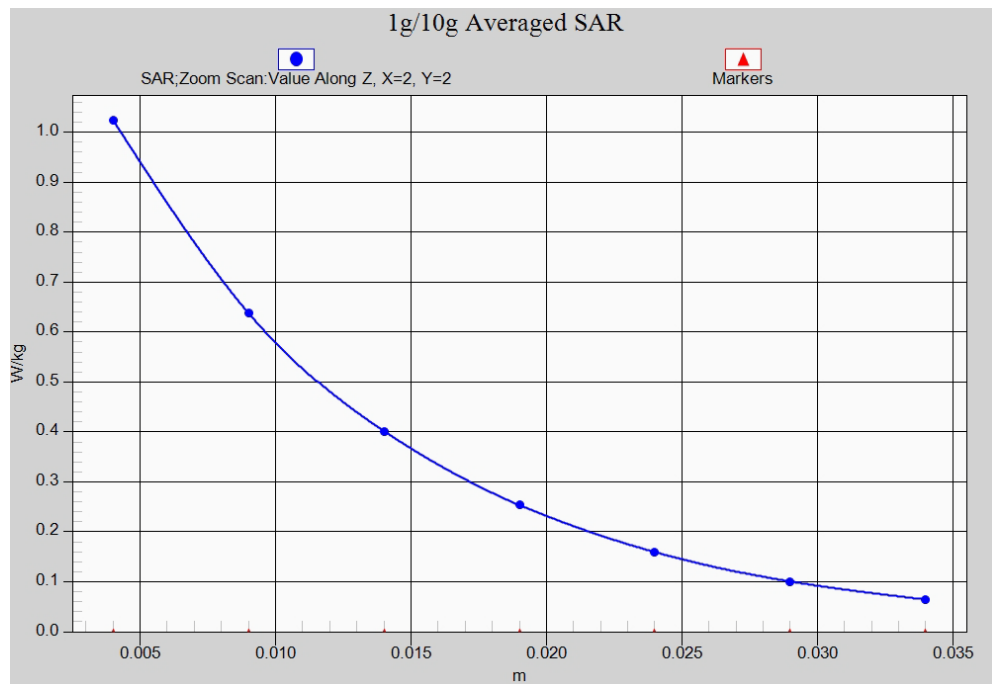


Fig. 12-1 Z-Scan at power reference point (LTE Band4)

LTE Band7 Right Cheek High with QPSK_20M_1RB_High

Date: 2016-1-25

Electronics: DAE4 Sn777

Medium: Head 2600 MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.904$ mho/m; $\epsilon_r = 38.442$; $\rho = 1000$ kg/m³

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(7.21, 7.21, 7.21)

Area Scan (91x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.564 W/kg

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

Reference Value = 6.034 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.846 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.249 W/kg

Maximum value of SAR (measured) = 0.570 W/kg

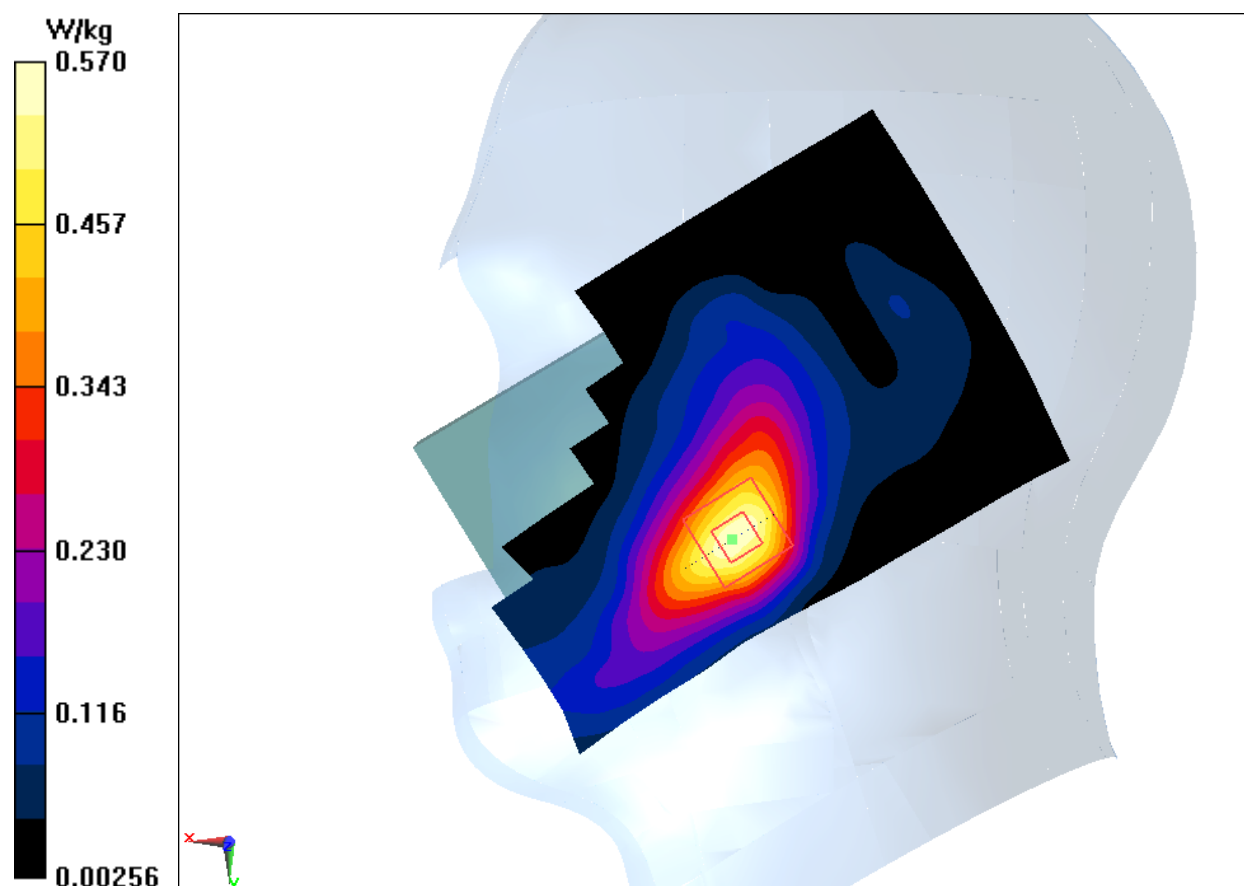


Fig.13 LTE Band7

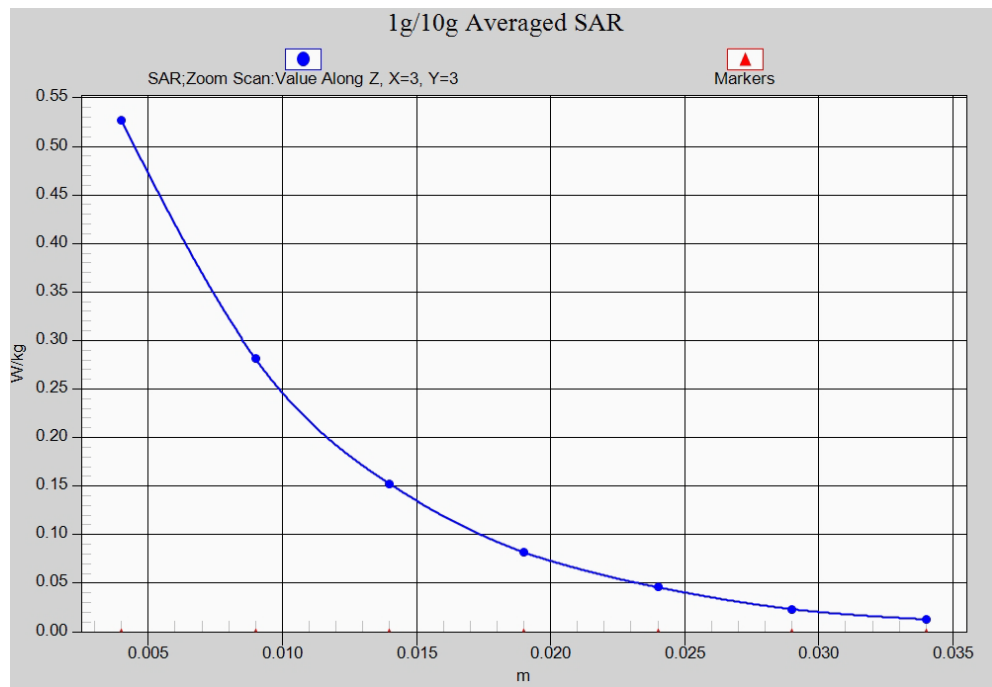


Fig. 13-1 Z-Scan at power reference point (LTE Band7)

LTE Band7 Body Bottom Middle with QPSK_20M_1RB_High

Date: 2016-1-25

Electronics: DAE4 Sn777

Medium: Body 2600 MHz

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.995$ mho/m; $\epsilon_r = 50.945$; $\rho = 1000$ kg/m³

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(7.20, 7.20, 7.20)

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

Maximum value of SAR (interpolated) = 1.50 W/kg

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

Reference Value = 12.22 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.515 W/kg

Maximum value of SAR (measured) = 1.31 W/kg

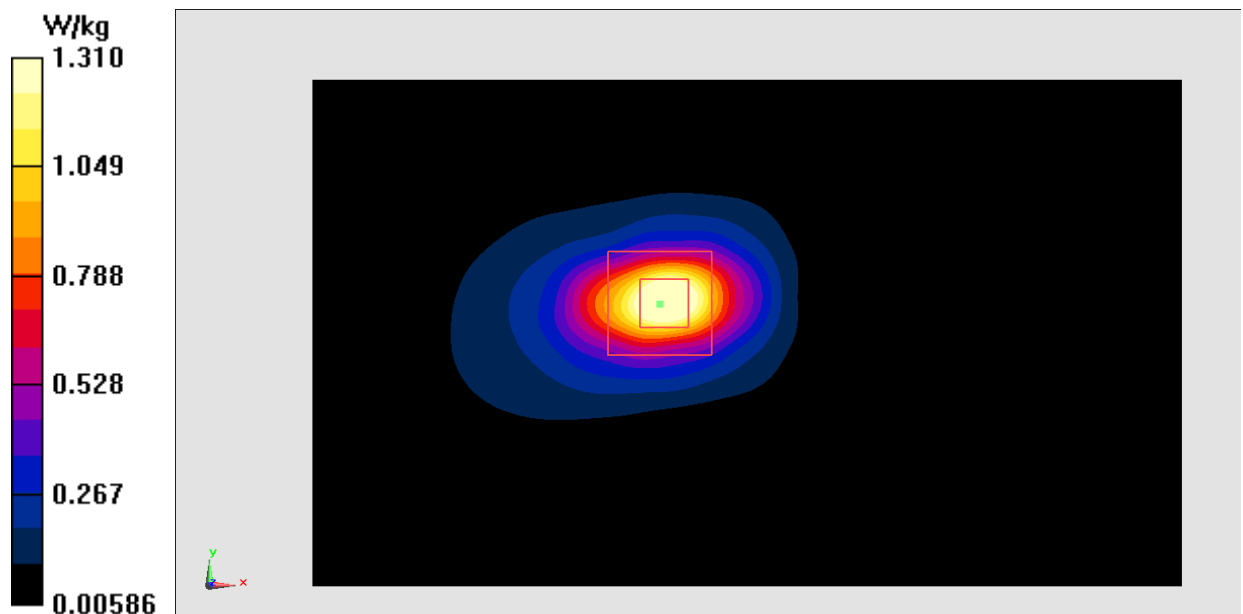


Fig.14 LTE Band7

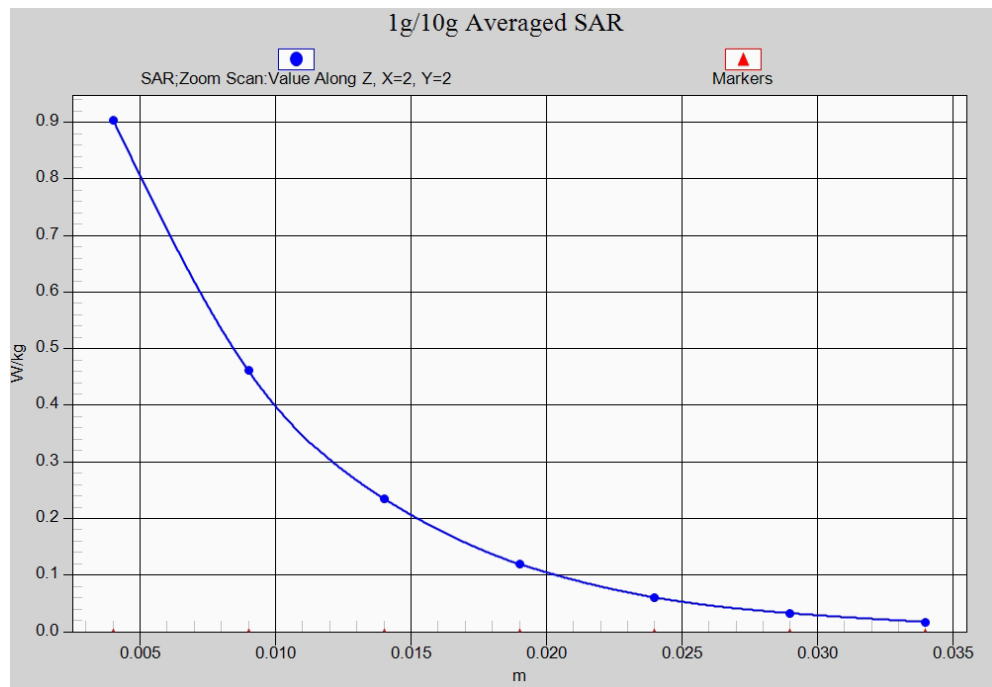


Fig. 14-1 Z-Scan at power reference point (LTE Band7)

LTE Band 13 Left Cheek Middle with QPSK_10M_1RB_Low

Date: 2016-1-20

Electronics: DAE4 Sn777

Medium: Head 750 MHz

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.915$ mho/m; $\epsilon_r = 42.985$; $\rho = 1000$ kg/m³

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) = 0.252 W/kg

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

Reference Value = 7.731 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.263 W/kg

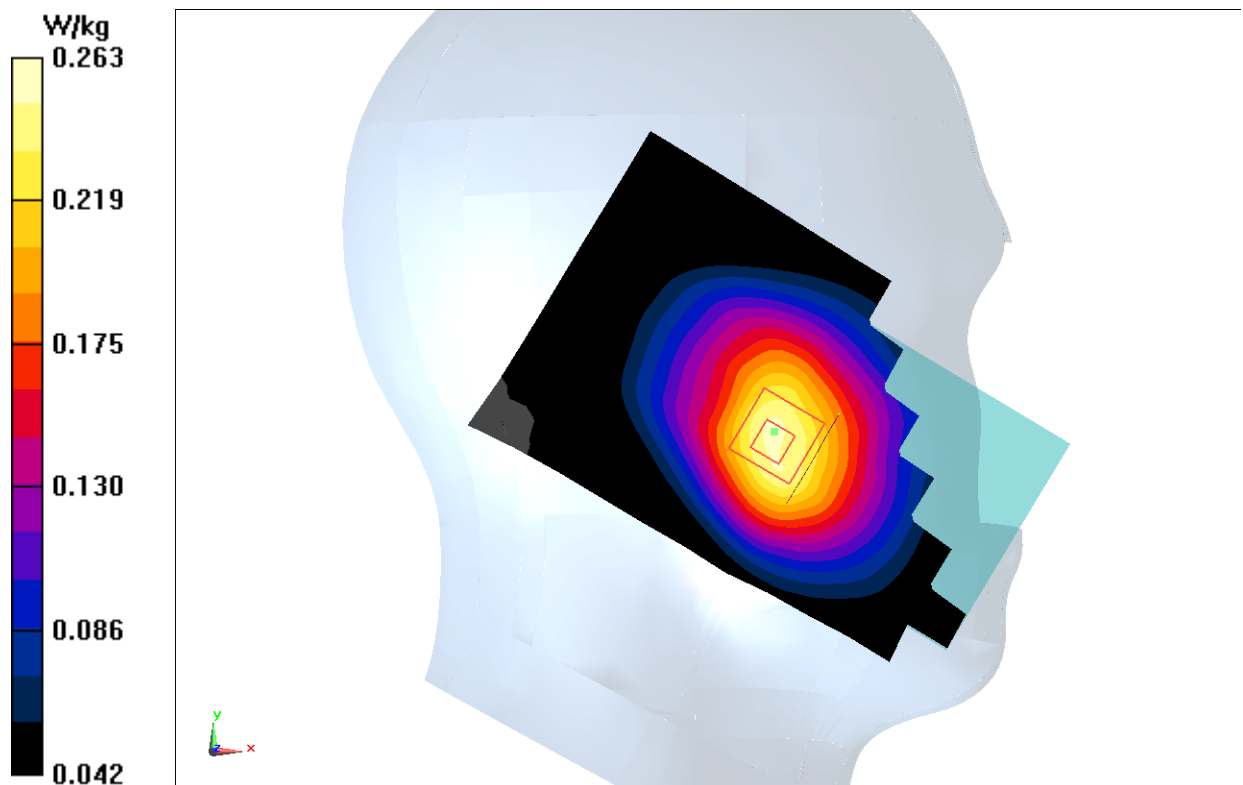


Fig.15 LTE Band 13

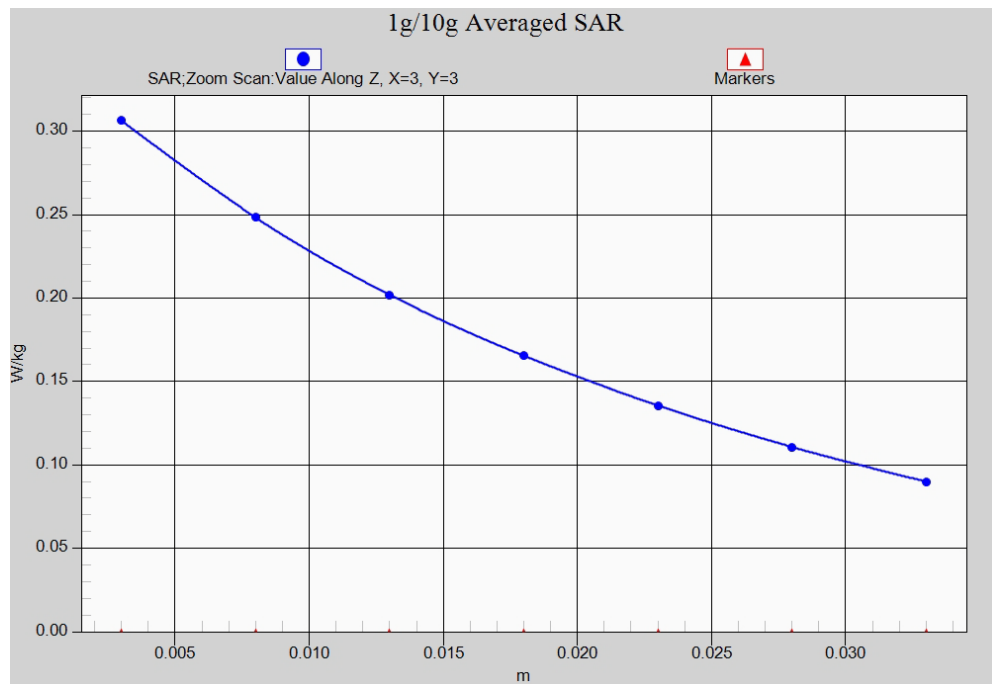


Fig. 15-1 Z-Scan at power reference point (LTE Band13)

LTE Band 13 Body Rear Middle with QPSK_10M_1RB_Low

Date: 2016-1-20

Electronics: DAE4 Sn777

Medium: Body 750 MHz

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.945$ mho/m; $\epsilon_r = 56.885$; $\rho = 1000$ kg/m³

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

Maximum value of SAR (interpolated) = 0.506 W/kg

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

Reference Value = 21.09 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.352 W/kg

Maximum value of SAR (measured) = 0.475 W/kg

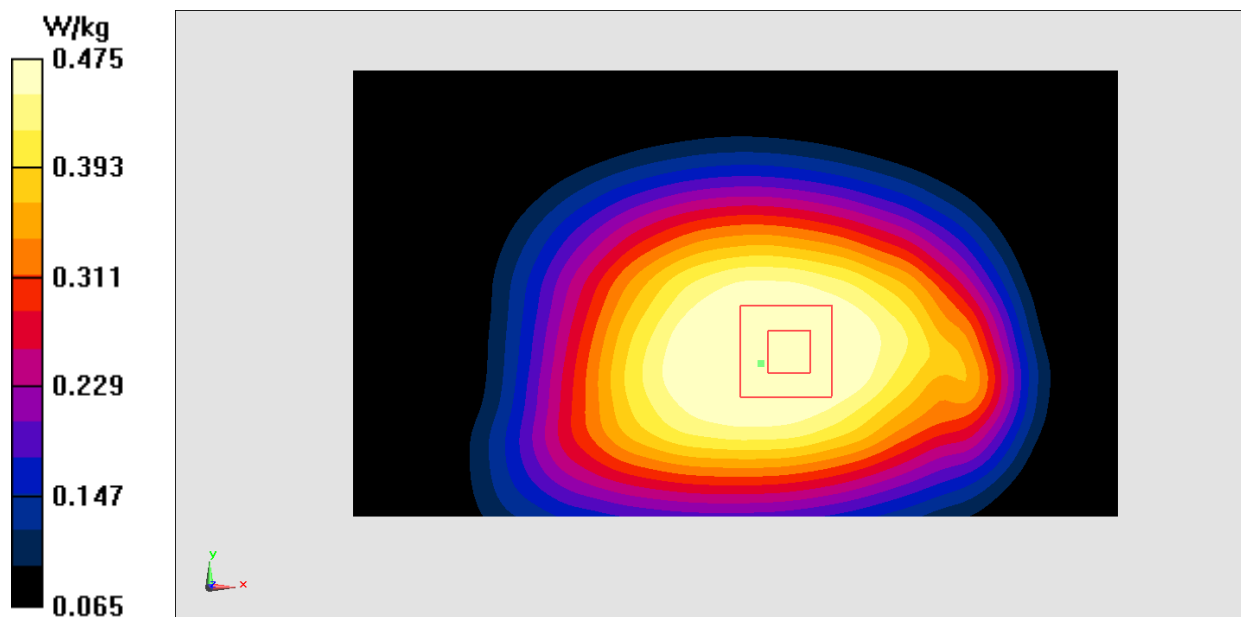


Fig.16 LTE Band 13

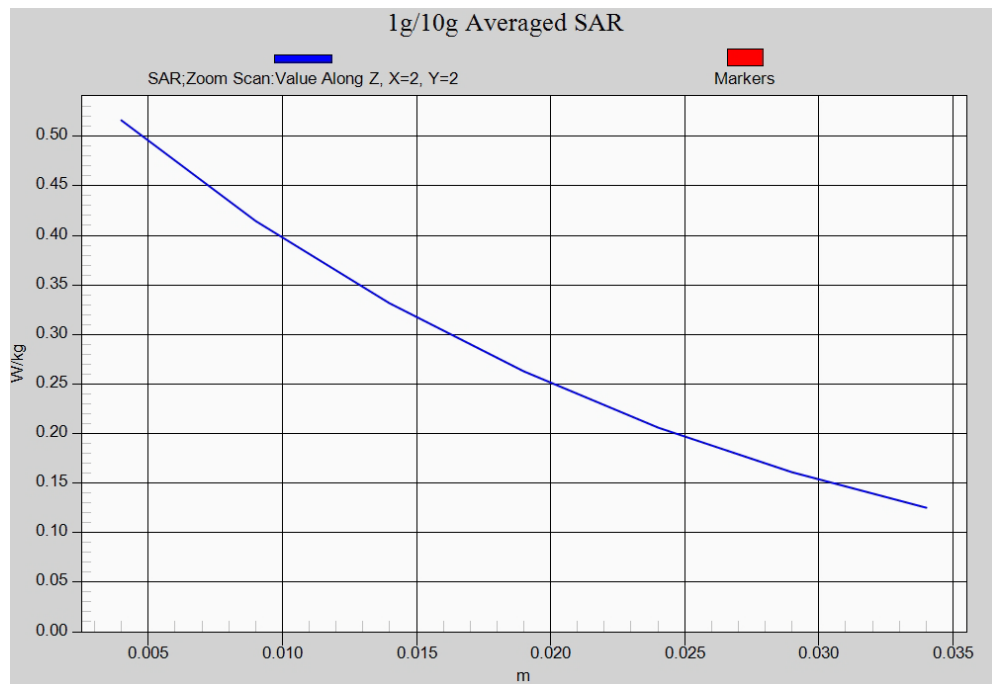


Fig.16-1 Z-Scan at power reference point (LTE Band13)

LTE Band17 Right Cheek Middle with QPSK_10M_1RB_Low

Date: 2016-1-20

Electronics: DAE4 Sn777

Medium: Head 750 MHz

Medium parameters used (interpolated): $f = 710$ MHz; $\sigma = 0.852$ mho/m; $\epsilon_r = 42.768$; $\rho = 1000$ kg/m³

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

Communication System: LTE Band17 Frequency: 710 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) = 0.118 W/kg

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

Reference Value = 4.093 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.132 W/kg

SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.118 W/kg

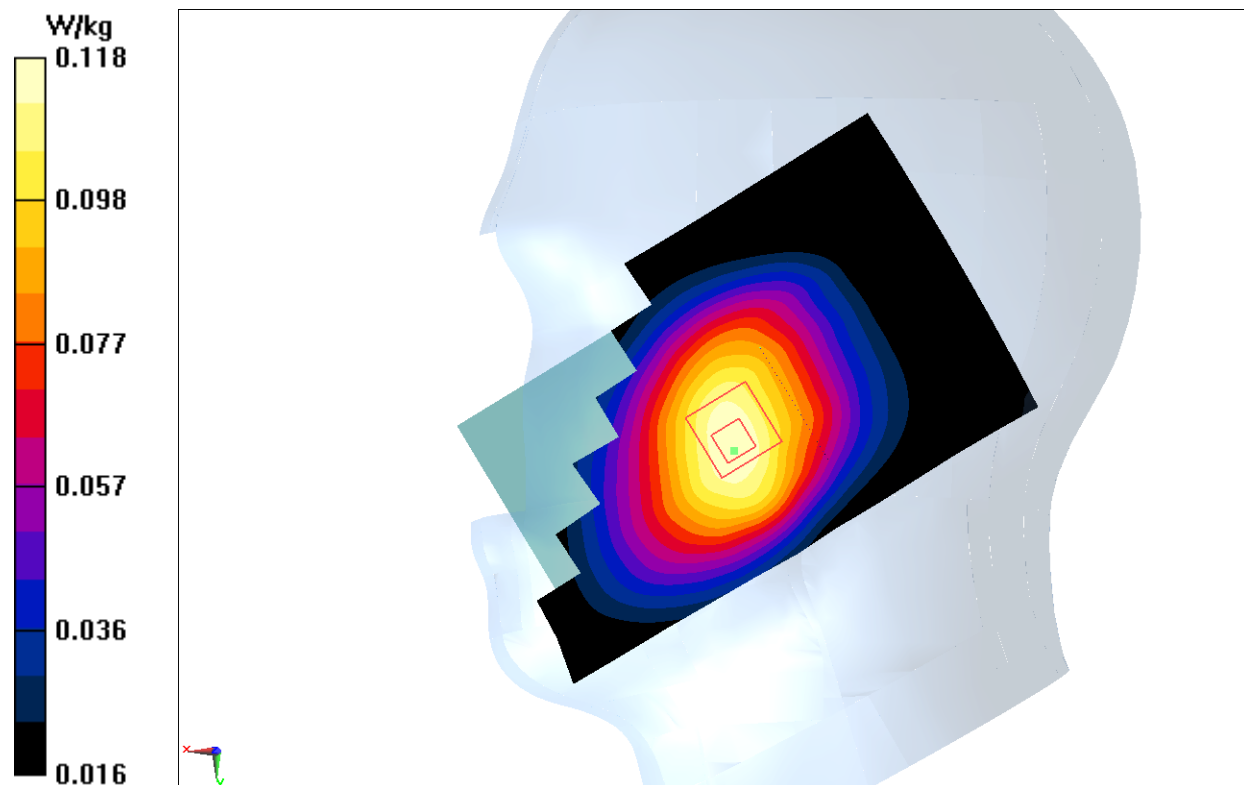


Fig.17 LTE Band17

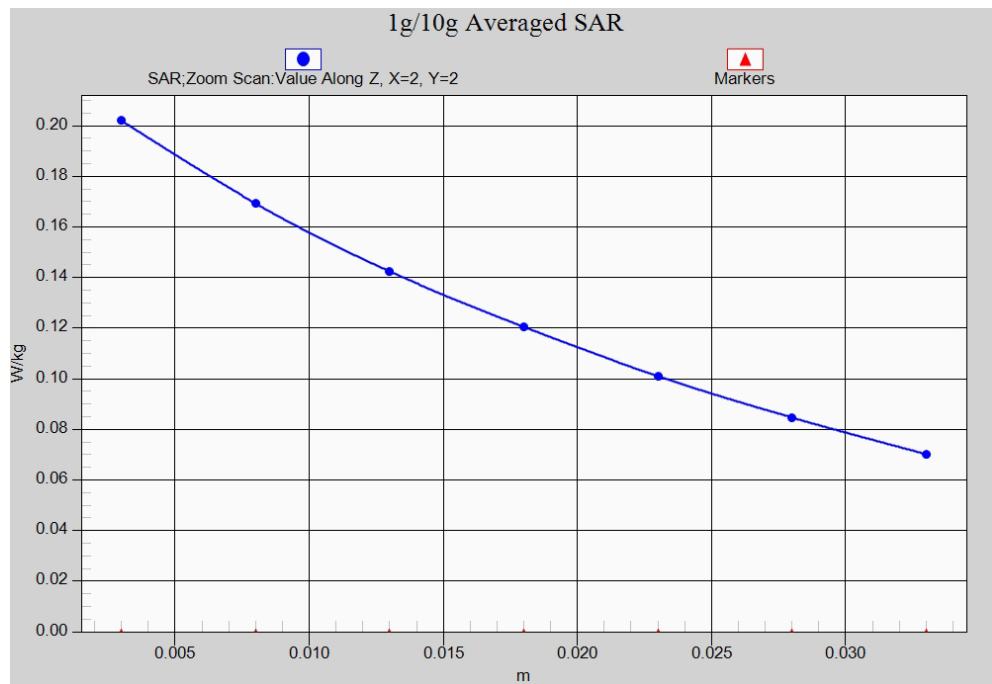


Fig. 17-1 Z-Scan at power reference point (LTE Band17)

LTE Band17 Body Rear Middle with QPSK_10M_1RB_Low

Date: 2016-1-20

Electronics: DAE4 Sn777

Medium: Body 750 MHz

Medium parameters used (interpolated): $f = 710$ MHz; $\sigma = 0.905$ mho/m; $\epsilon_r = 56.529$; $\rho = 1000$ kg/m³

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

Communication System: LTE Band17 Frequency: 710 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) = 0.240 W/kg

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

Reference Value = 14.23 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.277 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.170 W/kg

Maximum value of SAR (measured) = 0.230 W/kg

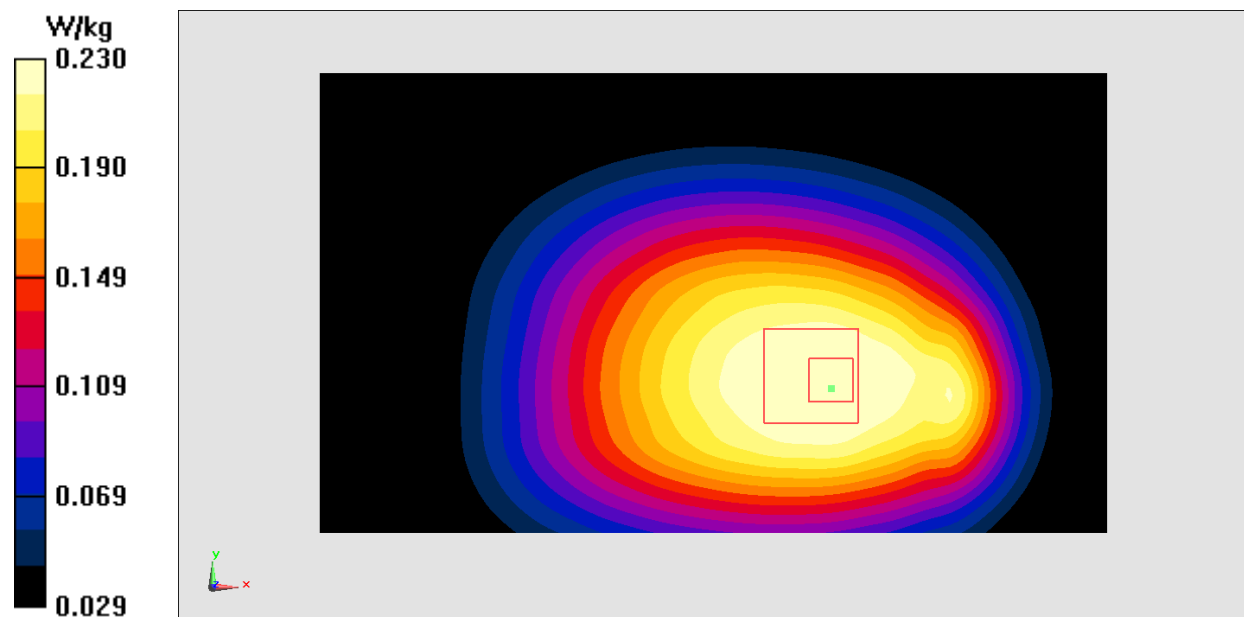


Fig.18 LTE Band17

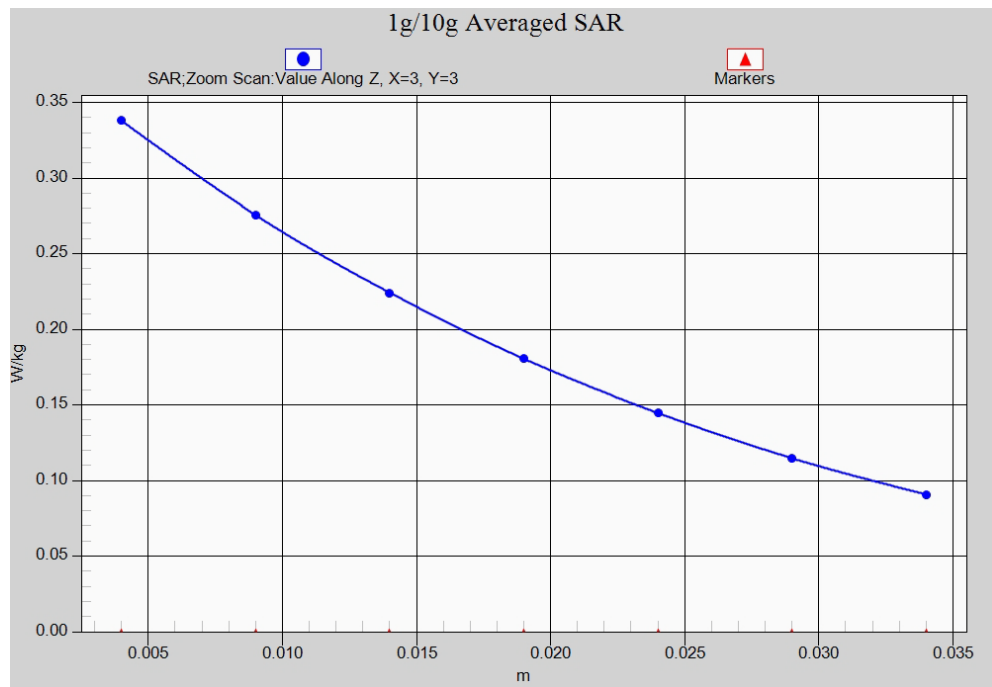


Fig. 18-1 Z-Scan at power reference point (LTE Band17)

Wifi 802.11b Right Cheek Channel 6

Date: 2016-1-24

Electronics: DAE4 Sn777

Medium: Head 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.843$ mho/m; $\epsilon_r = 40.022$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°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 (91x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.142 W/kg

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

Reference Value = 4.900 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.167 W/kg

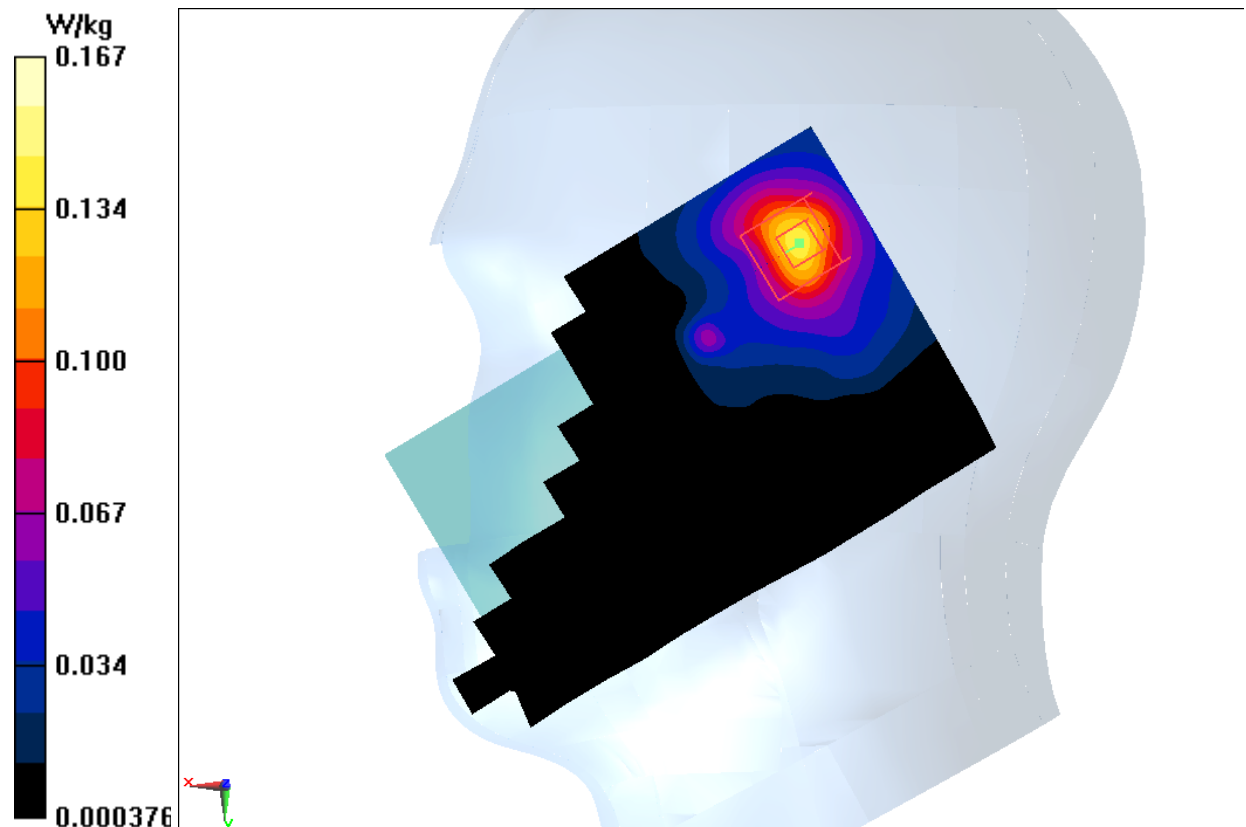


Fig.19 2450 MHz

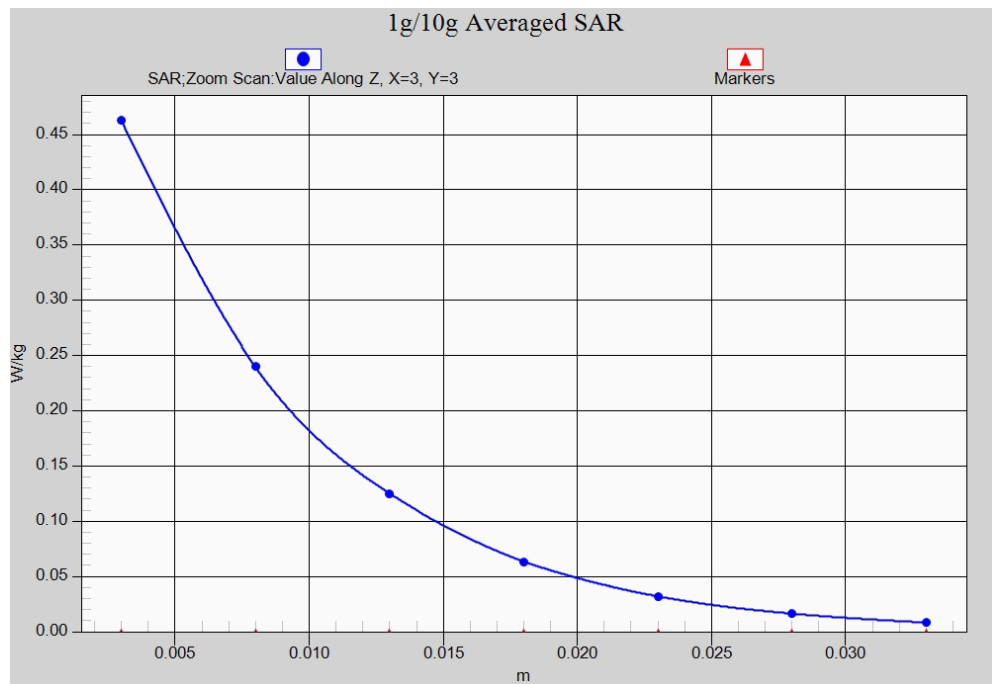


Fig. 19-1 Z-Scan at power reference point (2450 MHz)

Wifi 802.11b Body Rear Channel 6

Date: 2016-1-24

Electronics: DAE4 Sn777

Medium: Body 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.053$ mho/m; $\epsilon_r = 50.893$; $\rho = 1000$ kg/m³

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

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

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

Area Scan (141x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.376 W/kg

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

Reference Value = 4.816 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.327 W/kg

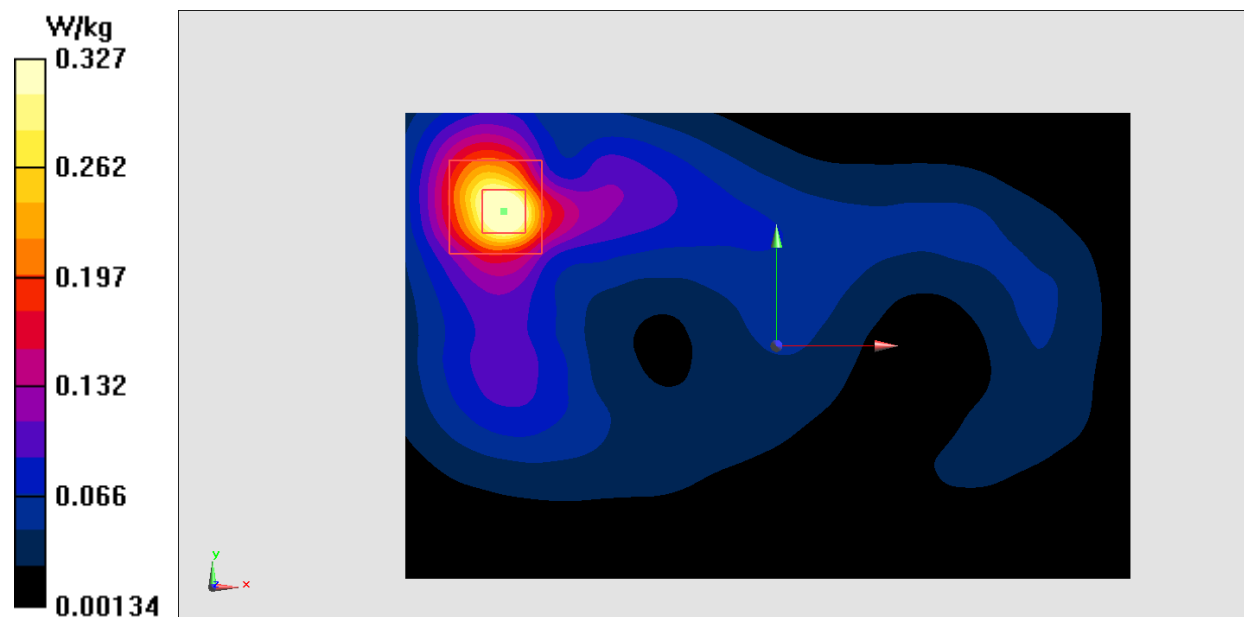


Fig.20 2450 MHz