GSM850_CH190 Rear
Date: 3/5/2018
Electronics: DAE4 Sn1525
Medium: body 835 MHz
Medium parameters used: f = 836.6 MHz; σ = 0.969 mho/m; εr = 54.35; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: GSM850 836.6 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(10.21,10.21,10.21)

Area Scan (71x121x1): 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=5mm, dy=5mm, dz=5mm
Reference Value = 29.26 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.666 W/kg
Maximum value of SAR (measured) = 0.95 W/kg

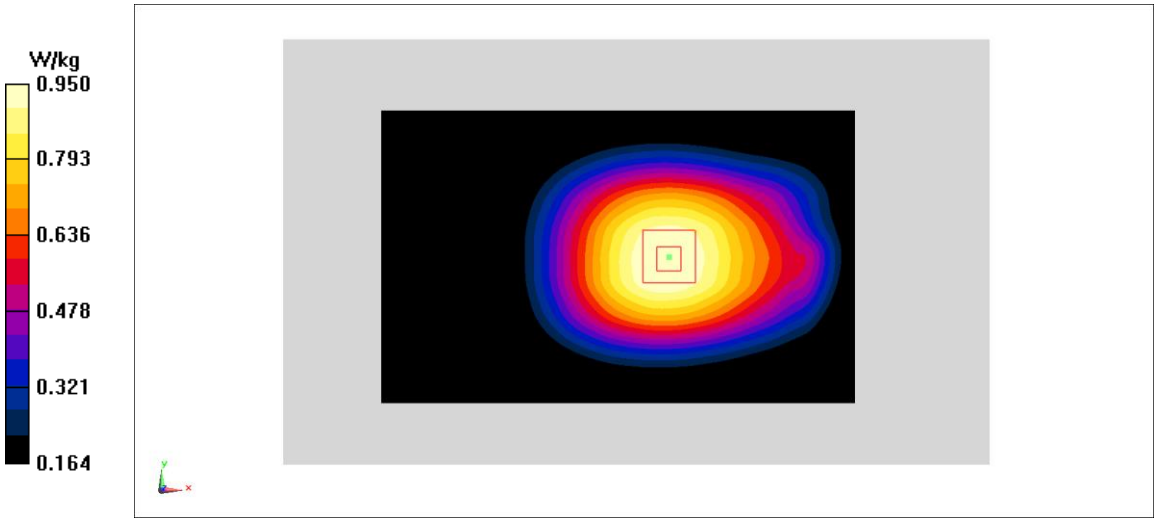

Fig A.2

PCS1900_CH512 Left Cheek
Date: 3/7/2018
Electronics: DAE4 Sn1525
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.338 mho/m; εr = 39.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:8.3
Probe: EX3DV4 – SN7464 ConvF(8.39,8.39,8.39)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.12 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.312 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.15 W/kg
SAR(1 g) = 0.1 W/kg; SAR(10 g) = 0.065 W/kg
Maximum value of SAR (measured) = 0.119 W/kg

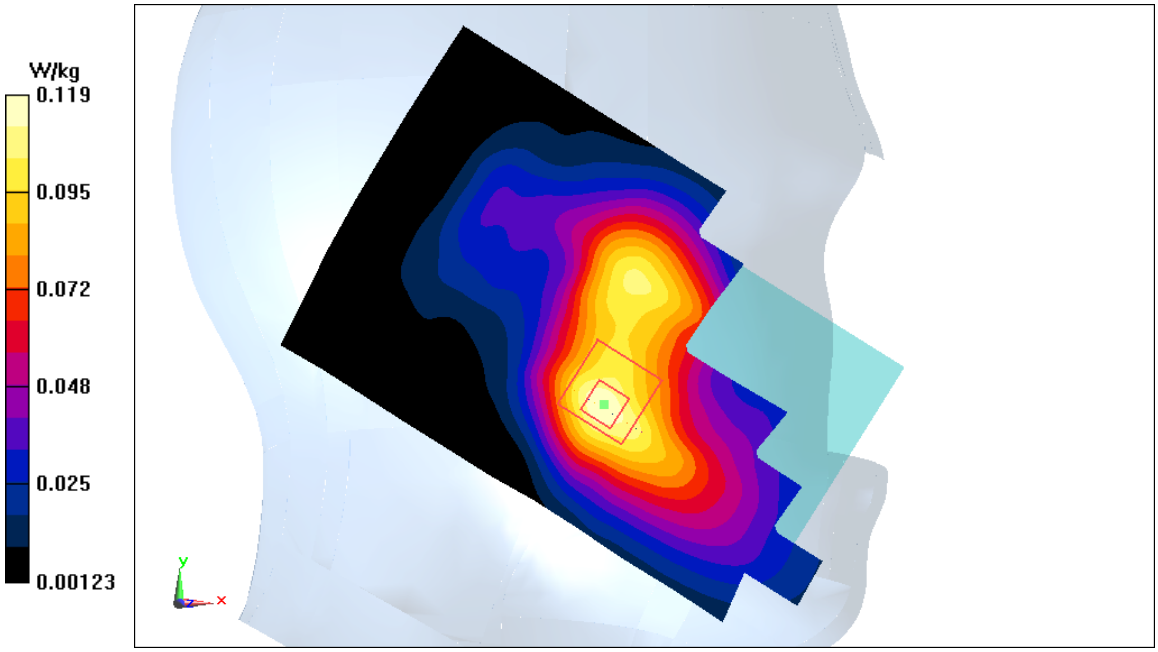

Fig A.3

PCS1900 #1_CH512 Rear
Date: 3/7/2018
Electronics: DAE4 Sn1525
Medium: body 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.477 mho/m; εr = 54.16; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7464 ConvF(8.32,8.32,8.32)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.521 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.114 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.726 W/kg
SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.557 W/kg

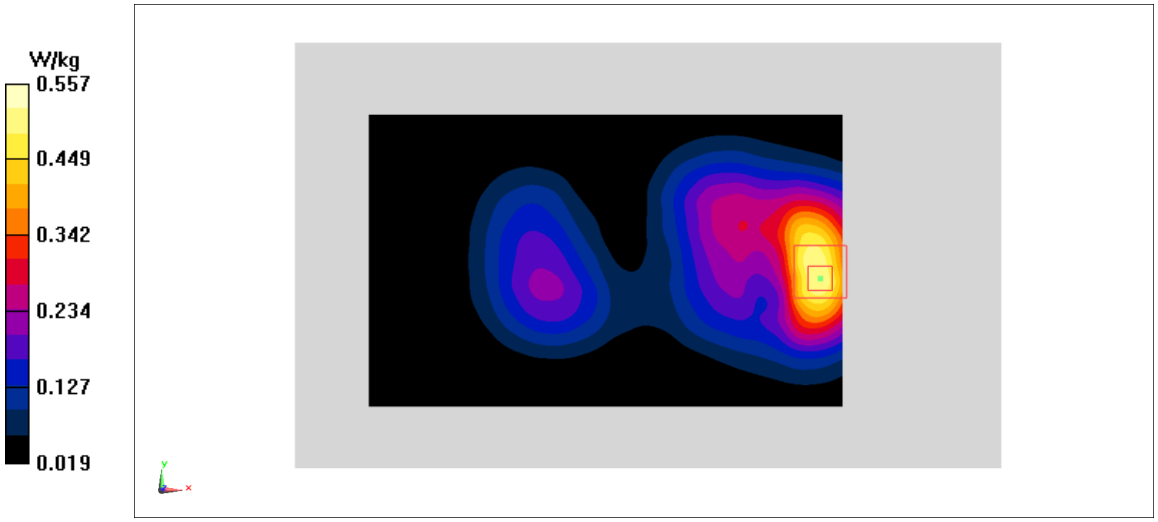

Fig A.4

PCS1900 #2_CH512 Bottom edge
Date: 3/7/2018
Electronics: DAE4 Sn1525
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; σ = 1.338 mho/m; εr = 39.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:2.67
Probe: EX3DV4 – SN7464 ConvF(8.32,8.32,8.32)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.713 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.26 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.312 W/kg
Maximum value of SAR (measured) = 0.724 W/kg

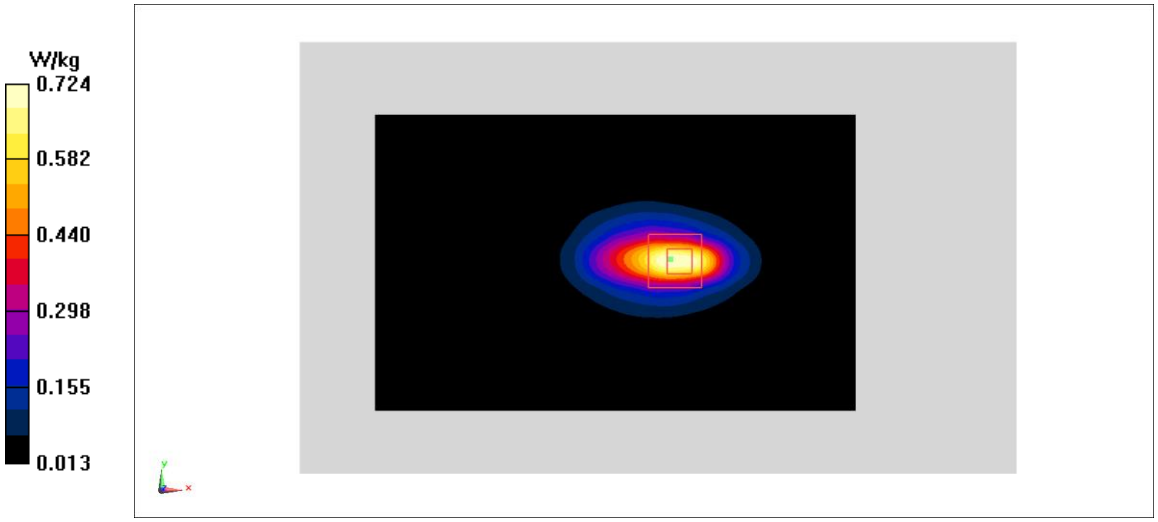

Fig A.5

WCDMA1900-BII_CH9262 Left Cheek
Date: 3/7/2018
Electronics: DAE4 Sn1525
Medium: body 1900 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.479 mho/m; εr = 54.16; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.39,8.39,8.39)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.193 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.985 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.223 W/kg
SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.104 W/kg
Maximum value of SAR (measured) = 0.178 W/kg

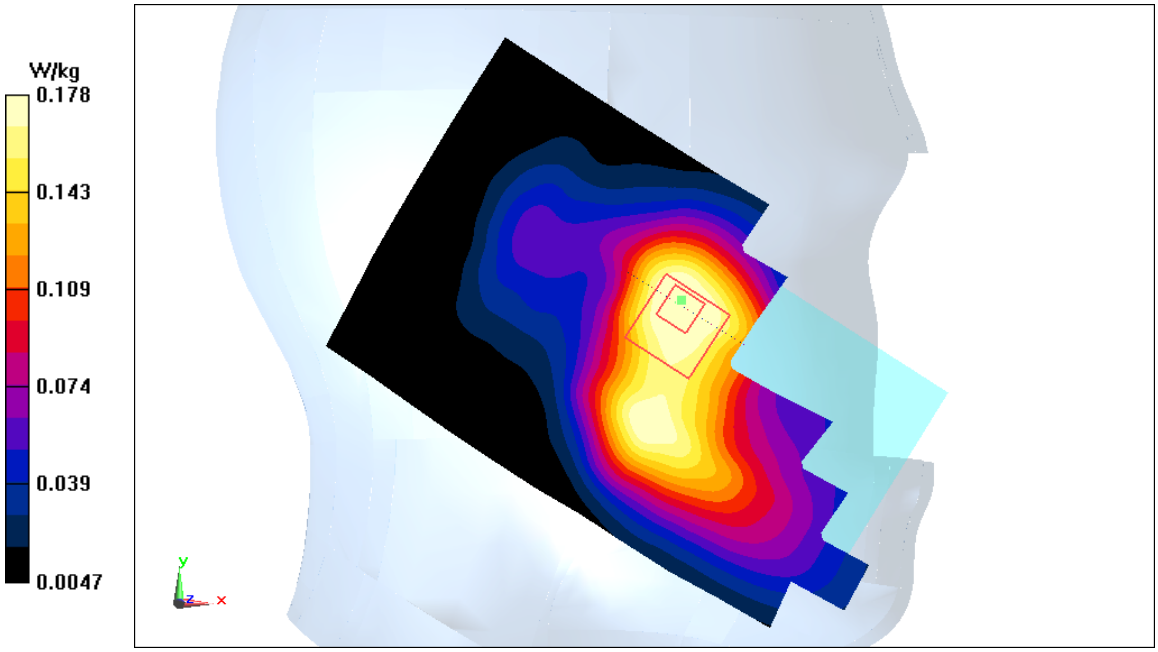

Fig A.6

WCDMA1900-BII #1_CH9262 Rear
Date: 3/7/2018
Electronics: DAE4 Sn1525
Medium: head 1900 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.339 mho/m; εr = 39.84; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.32,8.32,8.32)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.315 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.93 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.484 W/kg
SAR(1 g) = 0.306 W/kg; SAR(10 g) = 0.182 W/kg
Maximum value of SAR (measured) = 0.366 W/kg

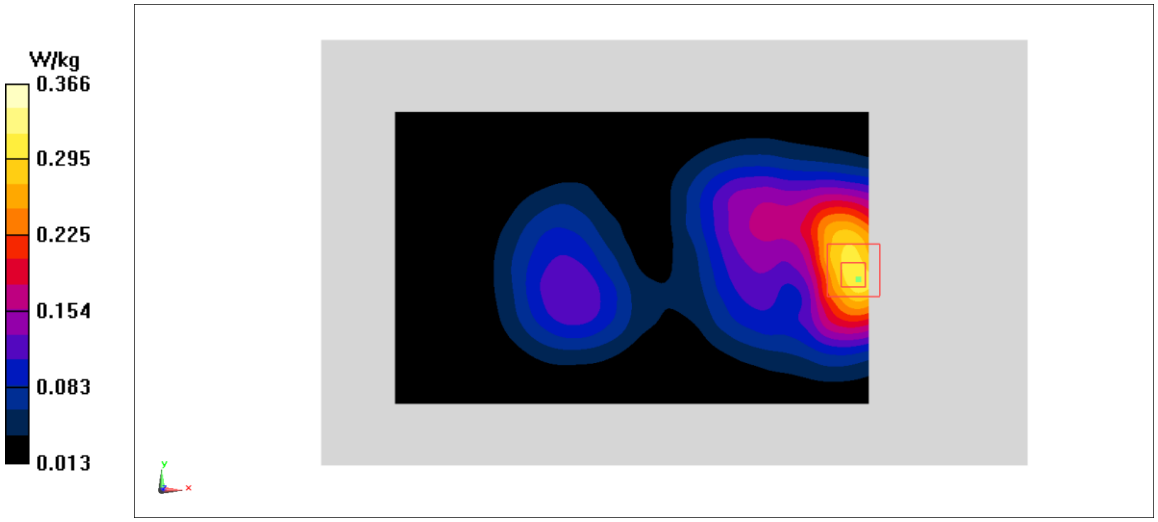

Fig A.7

WCDMA1900-BII #2_CH9262 Bottom edge
Date: 3/7/2018
Electronics: DAE4 Sn1525
Medium: body 1900 MHz
Medium parameters used: f = 1852.4 MHz; σ = 1.479 mho/m; εr = 54.16; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.32,8.32,8.32)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.584 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.03 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.812 W/kg
SAR(1 g) = 0.47 W/kg; SAR(10 g) = 0.249 W/kg
Maximum value of SAR (measured) = 0.589 W/kg

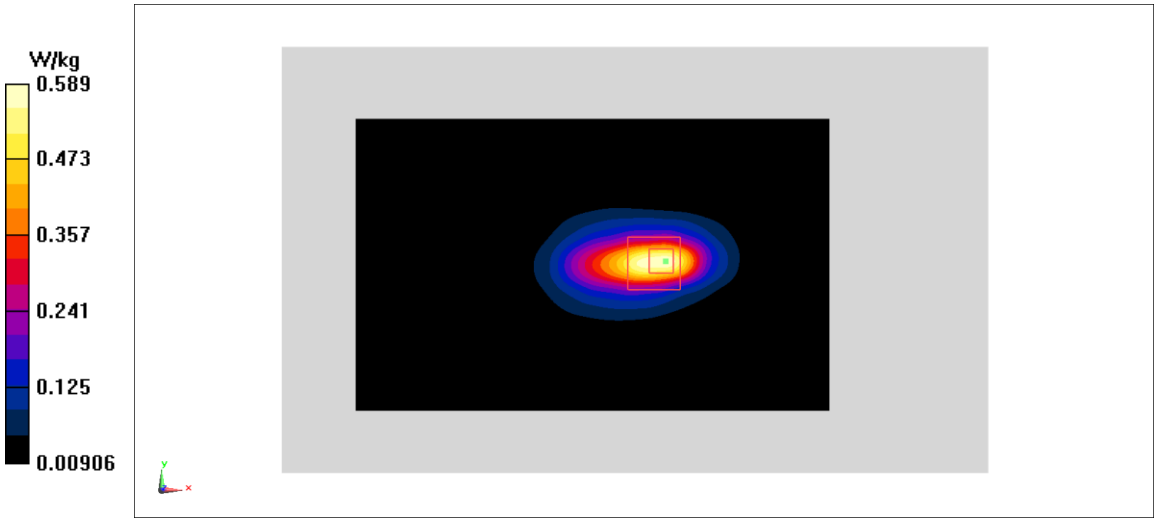

Fig A.8

WCDMA1700-BIV_CH1312 Left Cheek
Date: 3/6/2018
Electronics: DAE4 Sn1525
Medium: head 1750 MHz
Medium parameters used: f = 1712.4 MHz; σ = 1.361 mho/m; εr = 40.12; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1712.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.70,8.70,8.70)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0893 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.966 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.1 W/kg
SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.049 W/kg
Maximum value of SAR (measured) = 0.083 W/kg

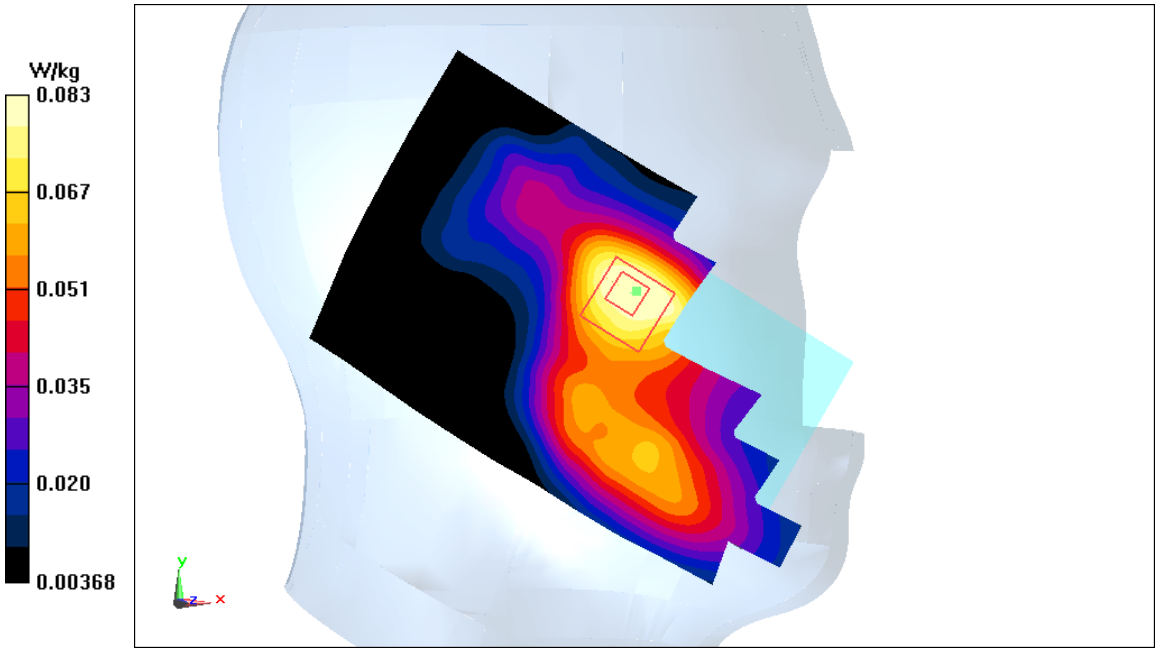

Fig A.9

WCDMA1700-BIV #1_CH1513 Rear
Date: 3/6/2018
Electronics: DAE4 Sn1525
Medium: body 1750 MHz
Medium parameters used: f = 1752.6 MHz; σ = 1.483 mho/m; εr = 53.21; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.60,8.60,8.60)

Area Scan (71x121x1): 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 = 7.753 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.444 W/kg
SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.191 W/kg
Maximum value of SAR (measured) = 0.346 W/kg

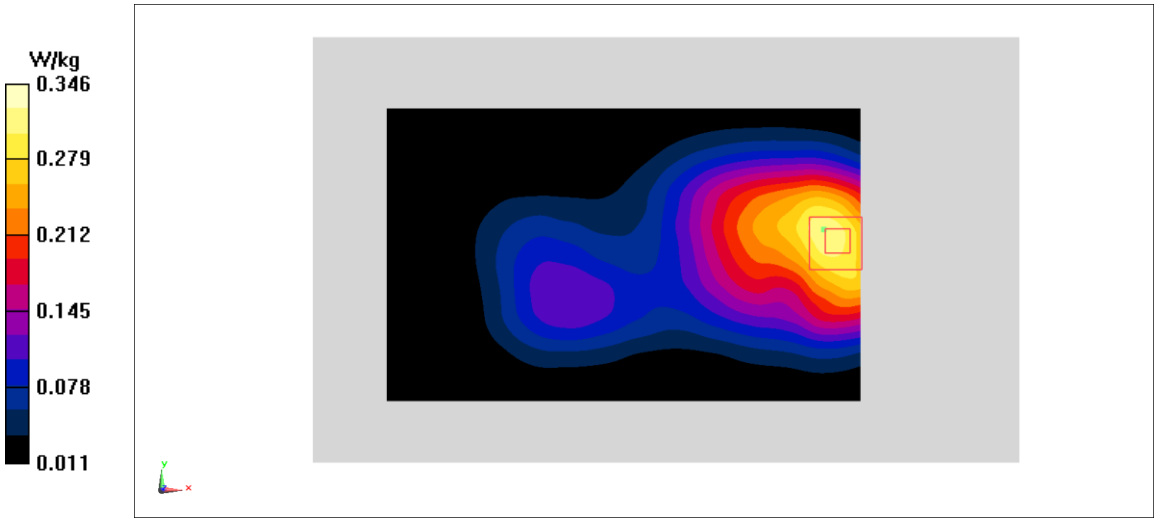

Fig A.10

WCDMA1700-BIV #2_CH1412 Bottom edge
Date: 3/6/2018
Electronics: DAE4 Sn1525
Medium: head 1750 MHz
Medium parameters used: f = 1732.4 MHz; σ = 1.38 mho/m; εr = 40.09; ρ = 1000 kg/m^3
Ambient Temperature: 22.5°C, Liquid Temperature: 22.3°C
Communication System: WCDMA1700-BIV 1732.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.60,8.60,8.60)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.895 W/kg; SAR(10 g) = 0.488 W/kg
Maximum value of SAR (measured) = 1.08 W/kg

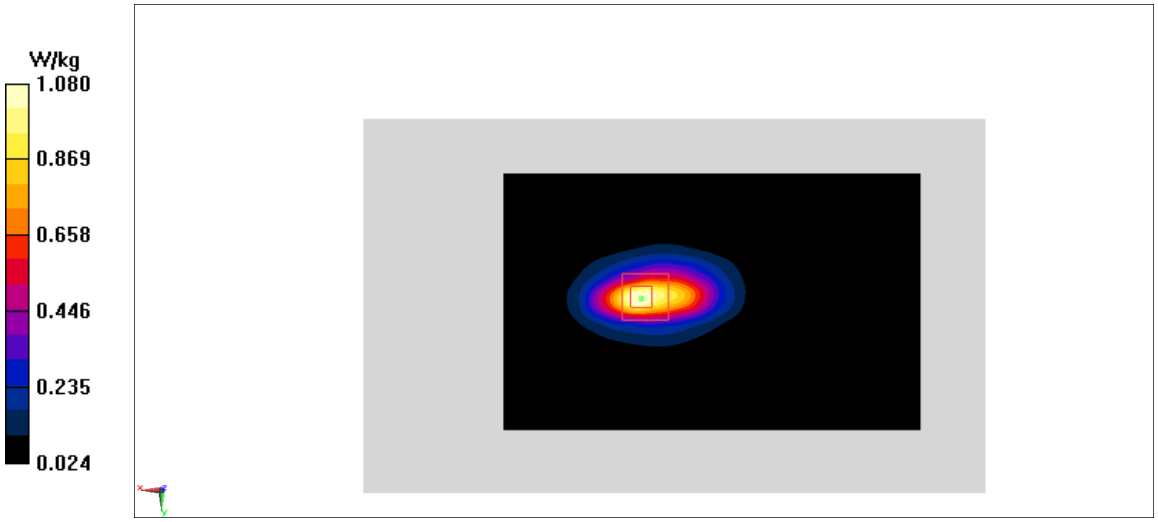

Fig A.11

WCDMA850-BV_CH4132 Left Cheek
Date: 3/5/2018
Electronics: DAE4 Sn1525
Medium: body 835 MHz
Medium parameters used: f = 826.4 MHz; σ = 0.958 mho/m; εr = 54.36; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 826.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.28,10.28,10.28)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.291 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.14 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.343 W/kg
SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.206 W/kg
Maximum value of SAR (measured) = 0.297 W/kg

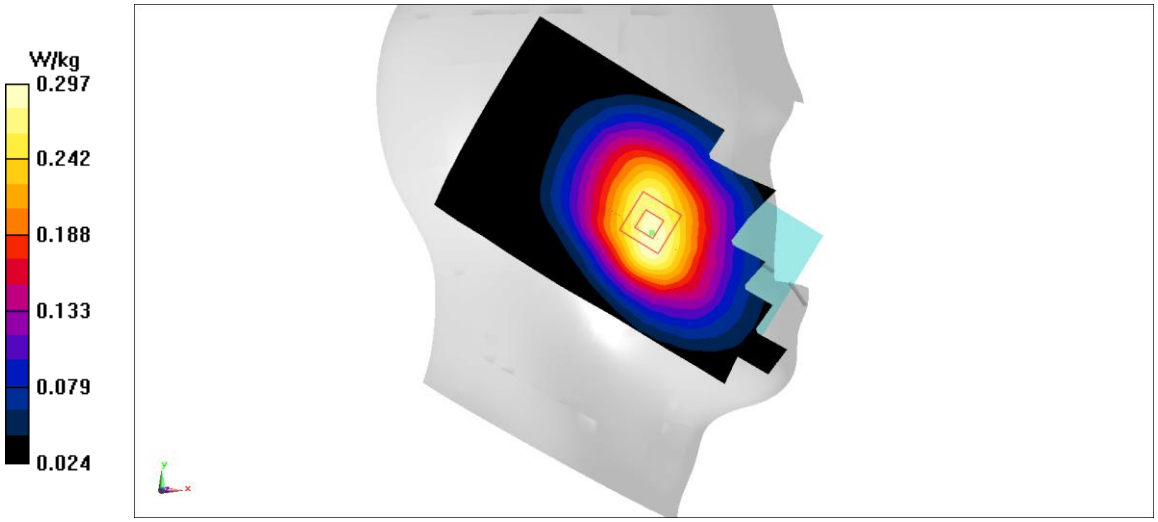

Fig A.12

WCDMA850-BV_CH4132 Rear
Date: 3/5/2018
Electronics: DAE4 Sn1525
Medium: head 835 MHz
Medium parameters used: f = 826.4 MHz; σ = 0.896 mho/m; εr = 42.27; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 826.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.21, 10.21, 10.21)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.422 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.47 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.478 W/kg
SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.301 W/kg
Maximum value of SAR (measured) = 0.419 W/kg

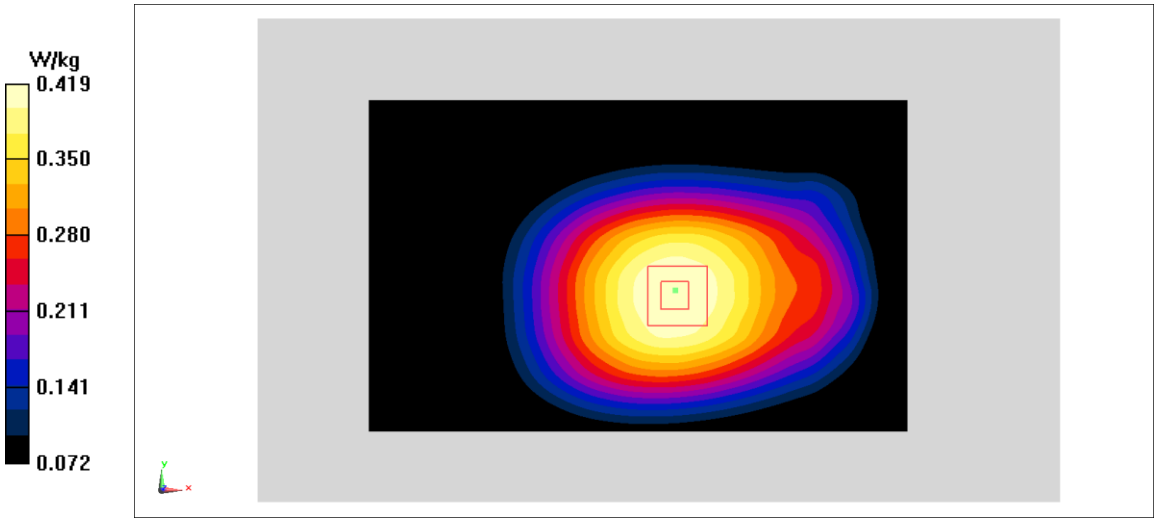

Fig A.13

WLAN2450_CH11 Right Cheek
Date: 3/8/2018
Electronics: DAE4 Sn1525
Medium: body 2450 MHz
Medium parameters used: f = 2462 MHz; σ = 1.978 mho/m; εr = 52.82; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN2450 2462 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.89,7.89,7.89)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.75 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.85 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.222 W/kg
Maximum value of SAR (measured) = 0.709 W/kg

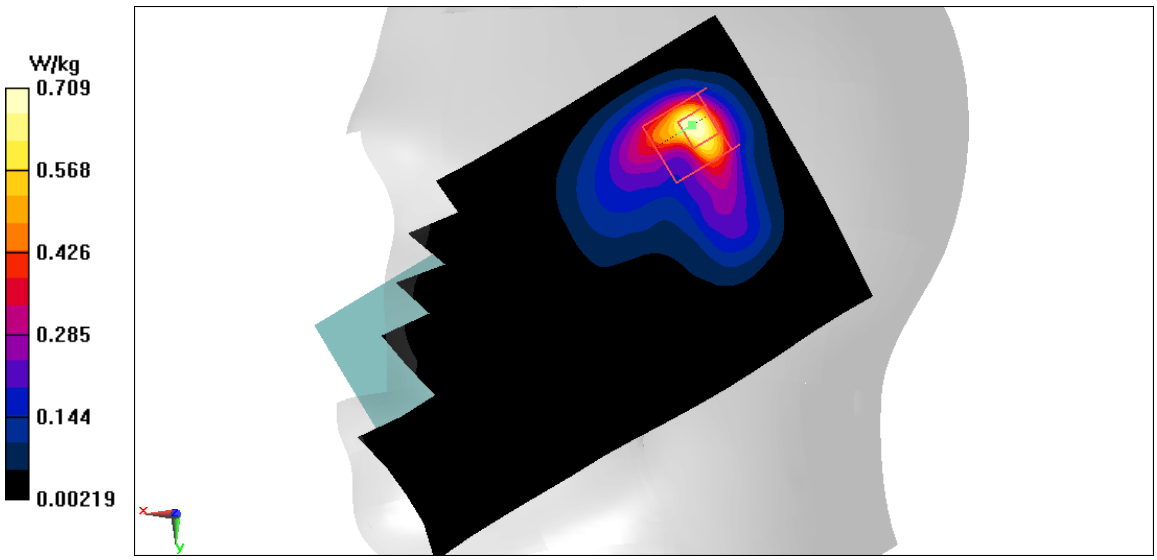

Fig A.14

WLAN2450_CH11 Rear
Date: 3/8/2018
Electronics: DAE4 Sn1525
Medium: head 2450 MHz
Medium parameters used: f = 2462 MHz; σ = 1.778 mho/m; εr = 39.24; ρ = 1000 kg/m^3
Ambient Temperature: 22.5ºC, Liquid Temperature: 22.3ºC
Communication System: WLAN2450 2462 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.09,8.09,8.09)

Area Scan (71x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.185 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.932 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.24 W/kg
SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.145 W/kg

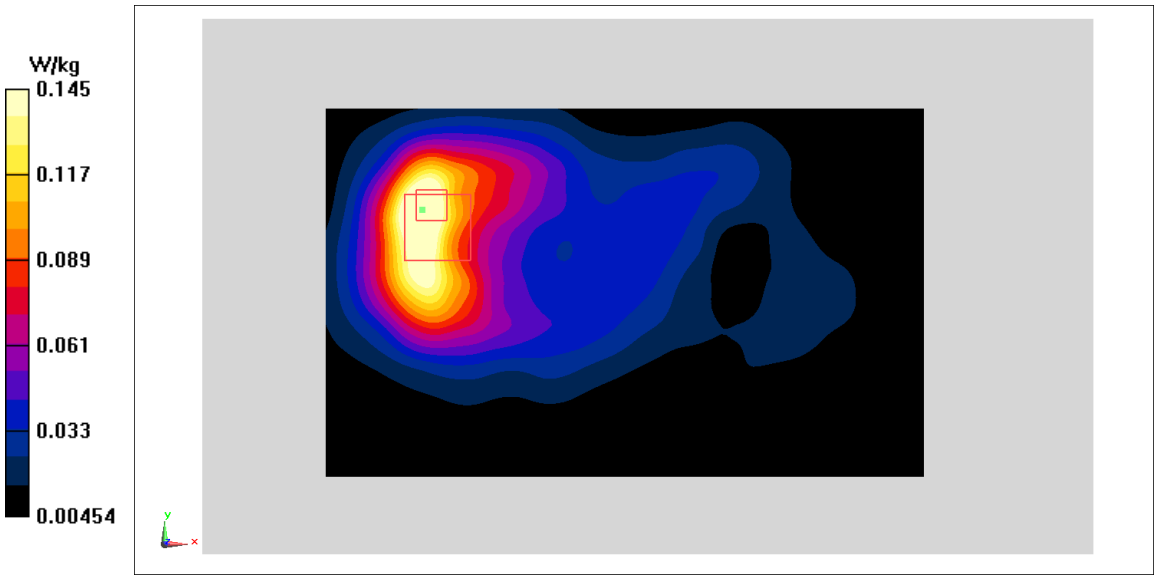

Fig A.15

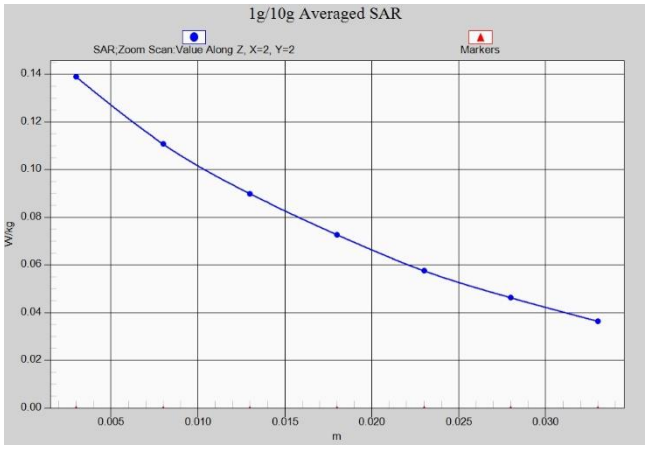

Fig.A.1- 1 Z-Scan at power reference point (GSM850)

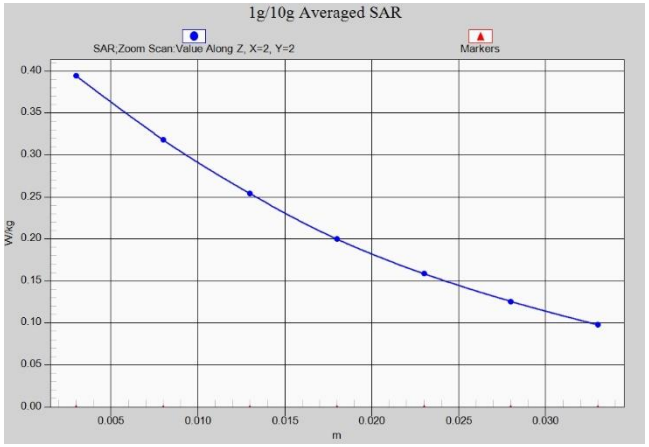

Fig.A.1- 2 Z-Scan at power reference point (GSM850)

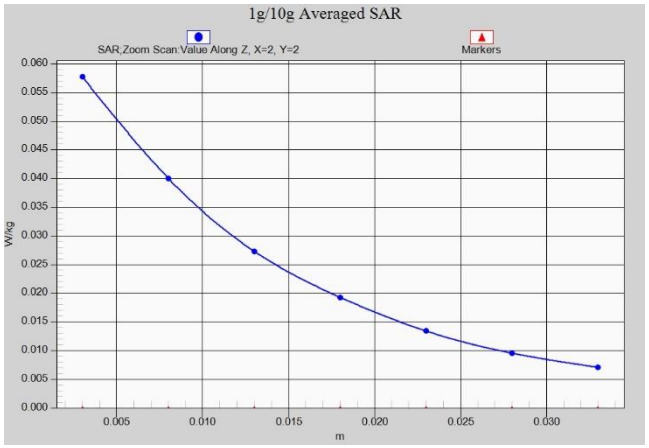

Fig.A.1- 3 Z-Scan at power reference point (PCS1900)

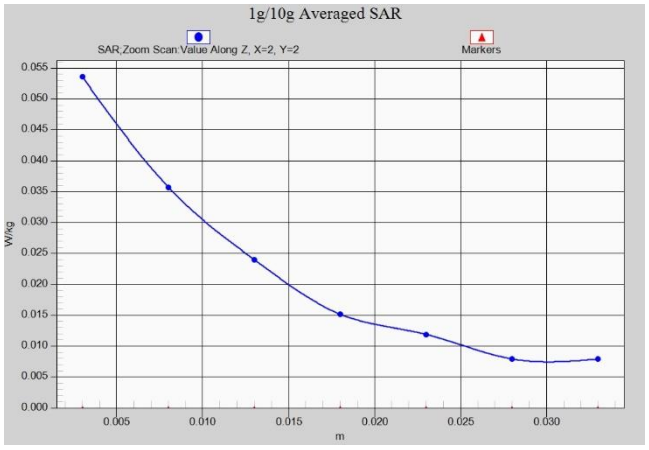

Fig.A.1- 4 Z-Scan at power reference point (PCS1900)

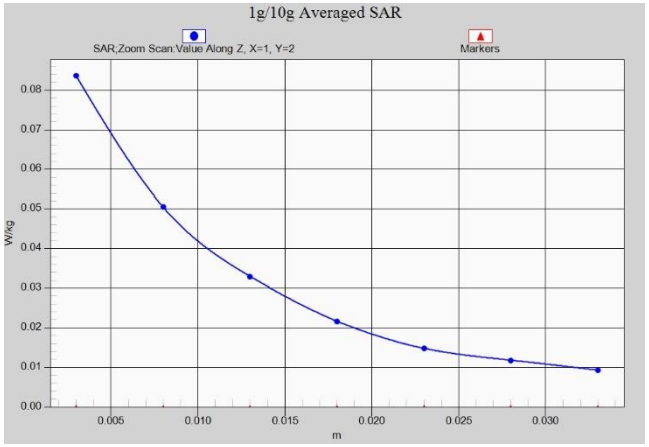

Fig.A.1- 5 Z-Scan at power reference point (PCS1900)

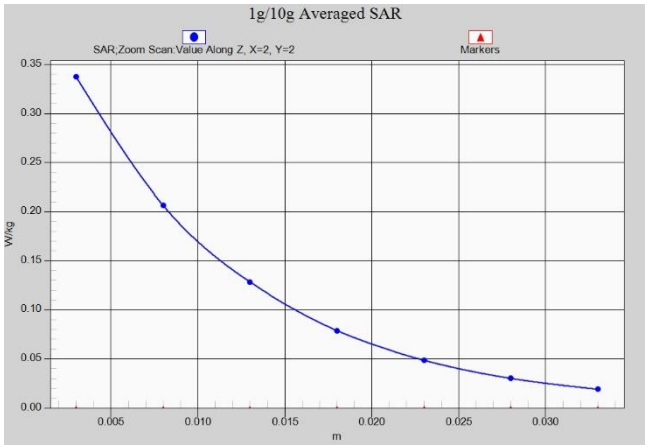

Fig.A.1- 6 Z-Scan at power reference point (W1900)

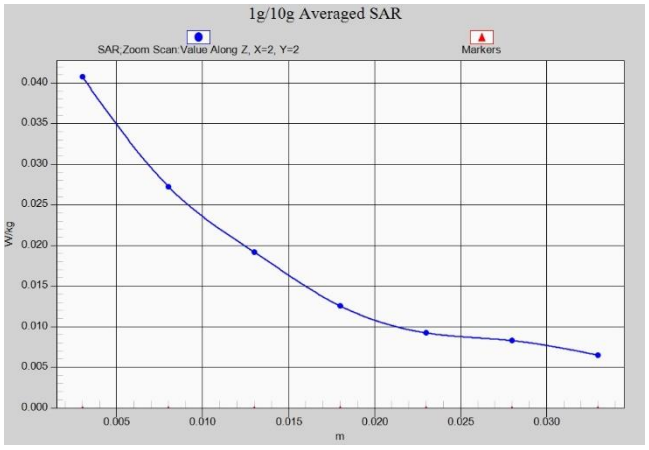

Fig.A.1- 7 Z-Scan at power reference point (W1900)

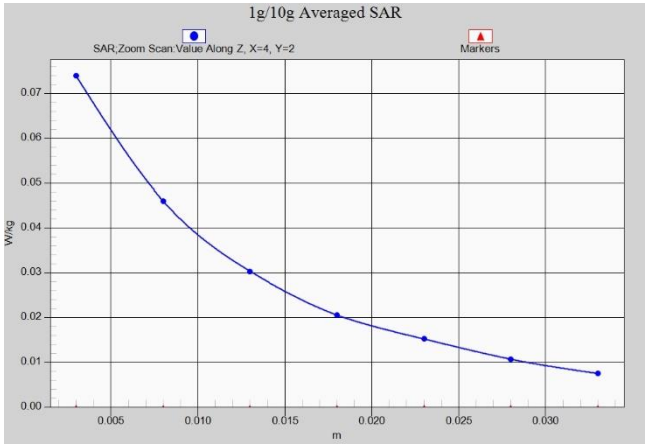

Fig.A.1- 8 Z-Scan at power reference point (W1900)

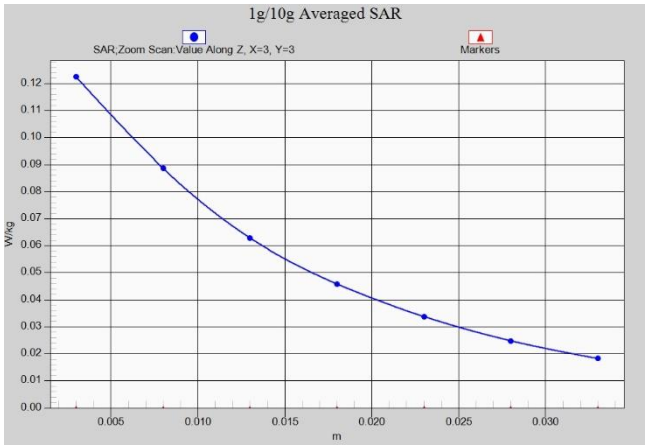

Fig.A.1- 9 Z-Scan at power reference point (W1700)