## 1900 Body Rear High

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1909.8 MHz; σ =1.594 mho/m; εr = 52.88; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:2

Probe: EX3DV4– SN7464 ConvF(8.32, 8.32, 8.32)


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

Maximum value of SAR (interpolated) = 0.831 W/kg


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

Reference Value = 7.397 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.387 W/kg
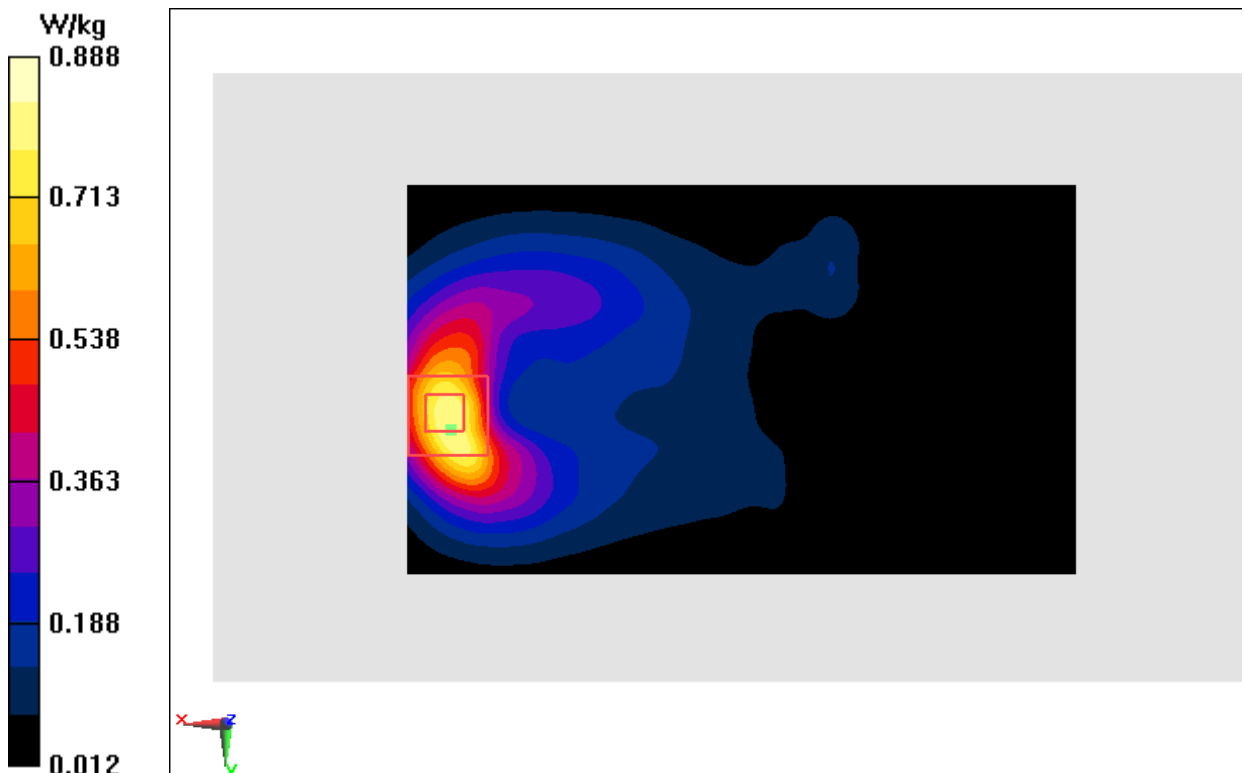
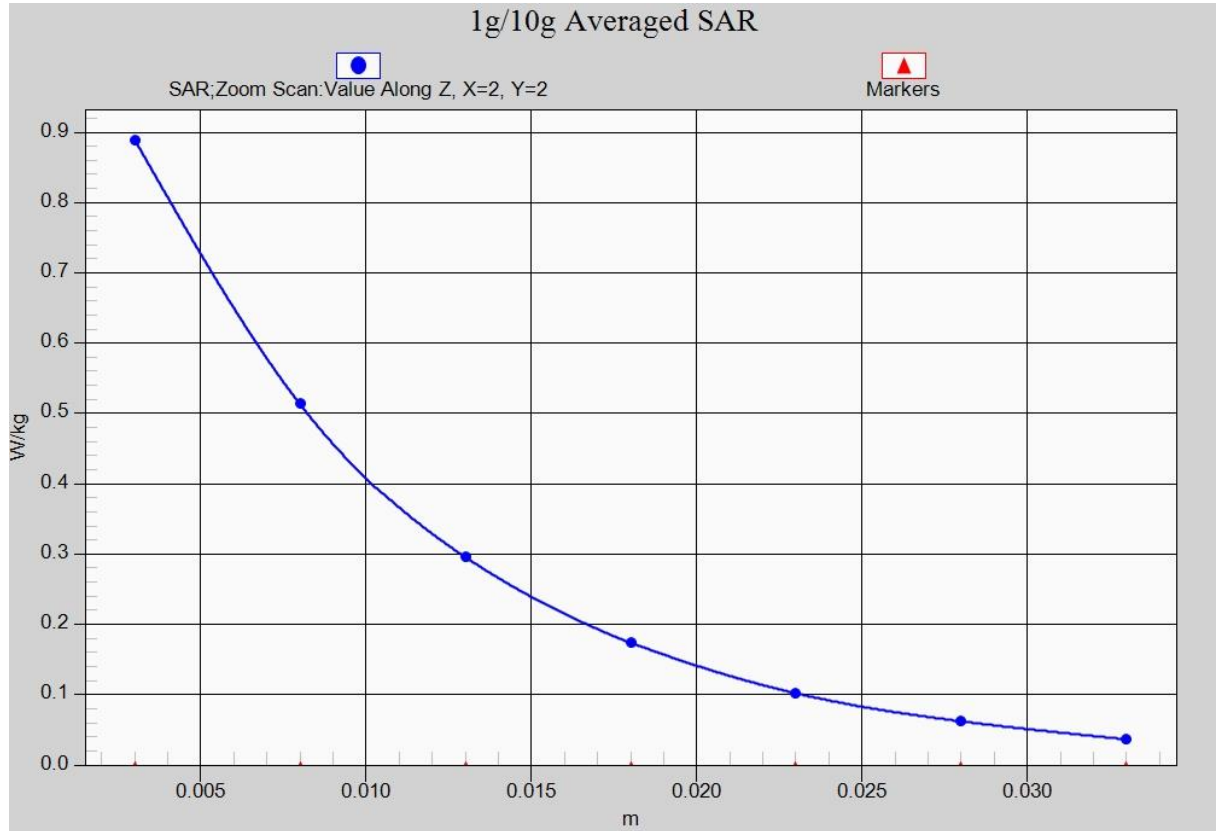Maximum value of SAR (measured) = 0.888 W/kg



**Fig.4 1900 MHz**

**Fig. 4-1 Z-Scan at power reference point (1900 MHz)**

## WCDMA 850 Right Cheek Middle

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Head 850 MHz

Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.889 mho/m; εr = 42.065; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

Communication System: WCDMA; Frequency: 836.4 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) = 0.221 W/kg


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

Reference Value = 3.916 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.255 W/kg

**SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.151 W/kg**
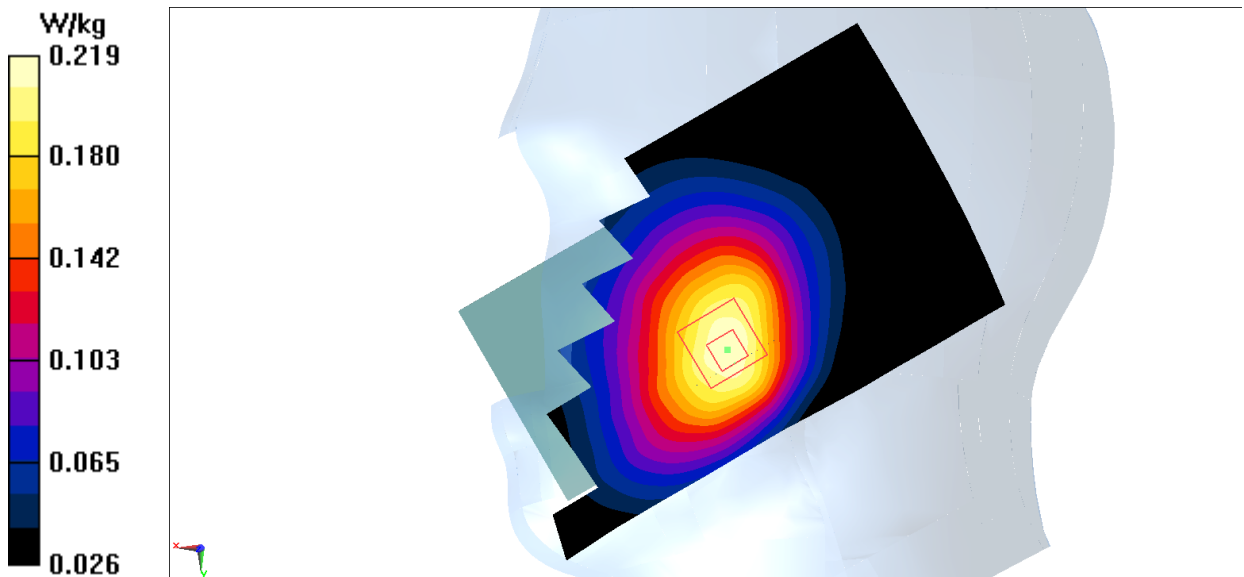
Maximum value of SAR (measured) = 0.219 W/kg
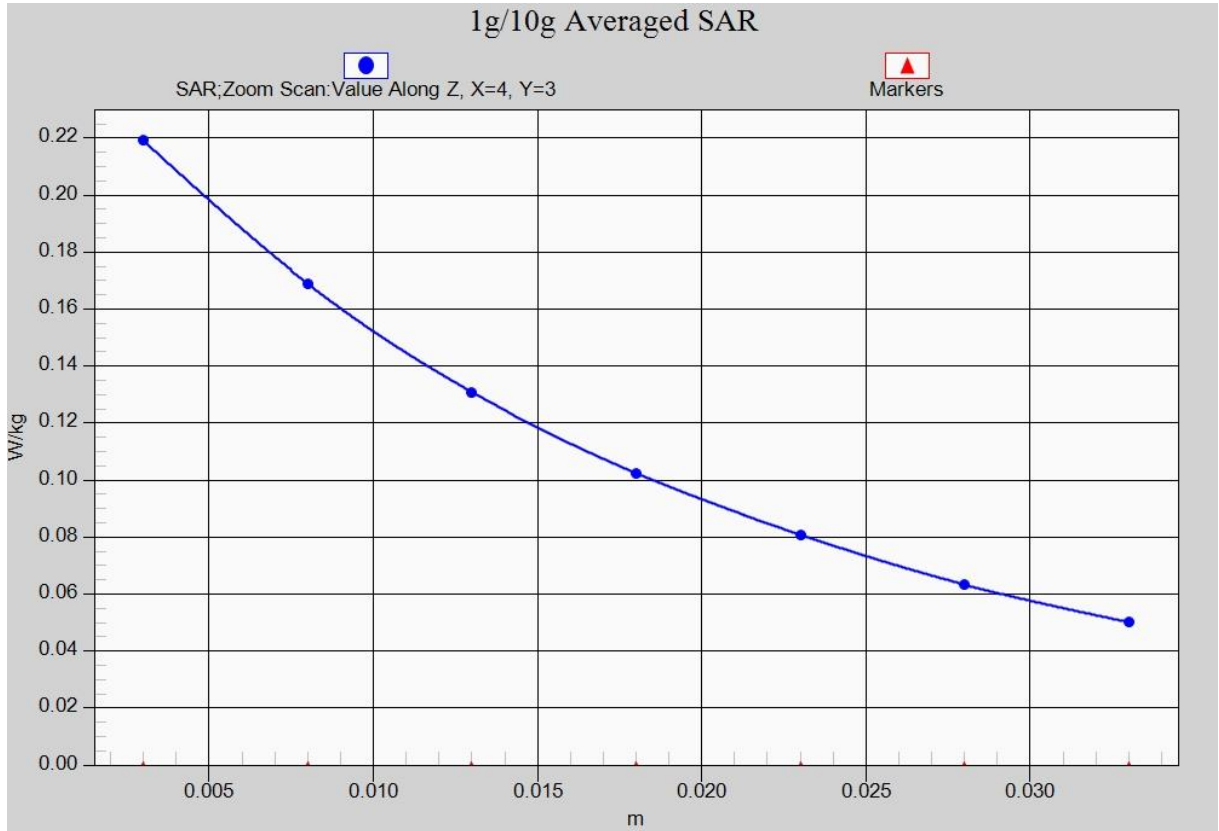


**Fig.5 WCDMA 850**

**Fig. 5-1 Z-Scan at power reference point (850 MHz)**

## WCDMA 850 Body Rear Low

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Body 850 MHz

Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.971 mho/m; εr = 55.956; ρ = 1000 kg/m$^3$

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

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

Probe: EX3DV4 – SN7464 ConvF(10.21, 10.21, 10.21)


Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.394 W/kg


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

Reference Value = 15.71 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.190 W/kg

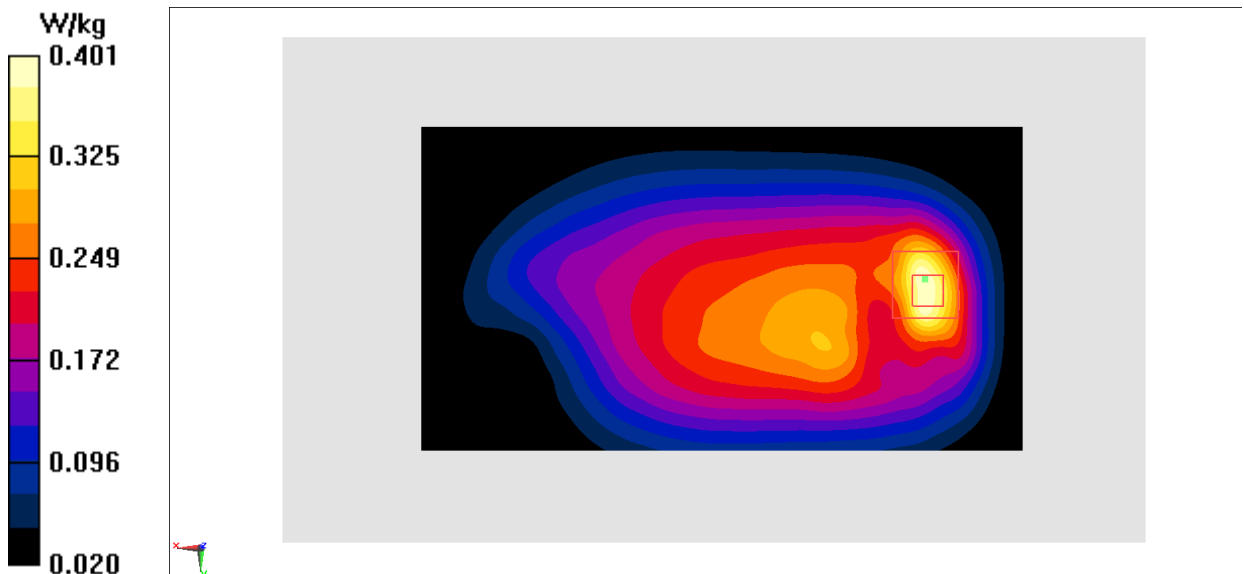Maximum value of SAR (measured) = 0.401 W/kg
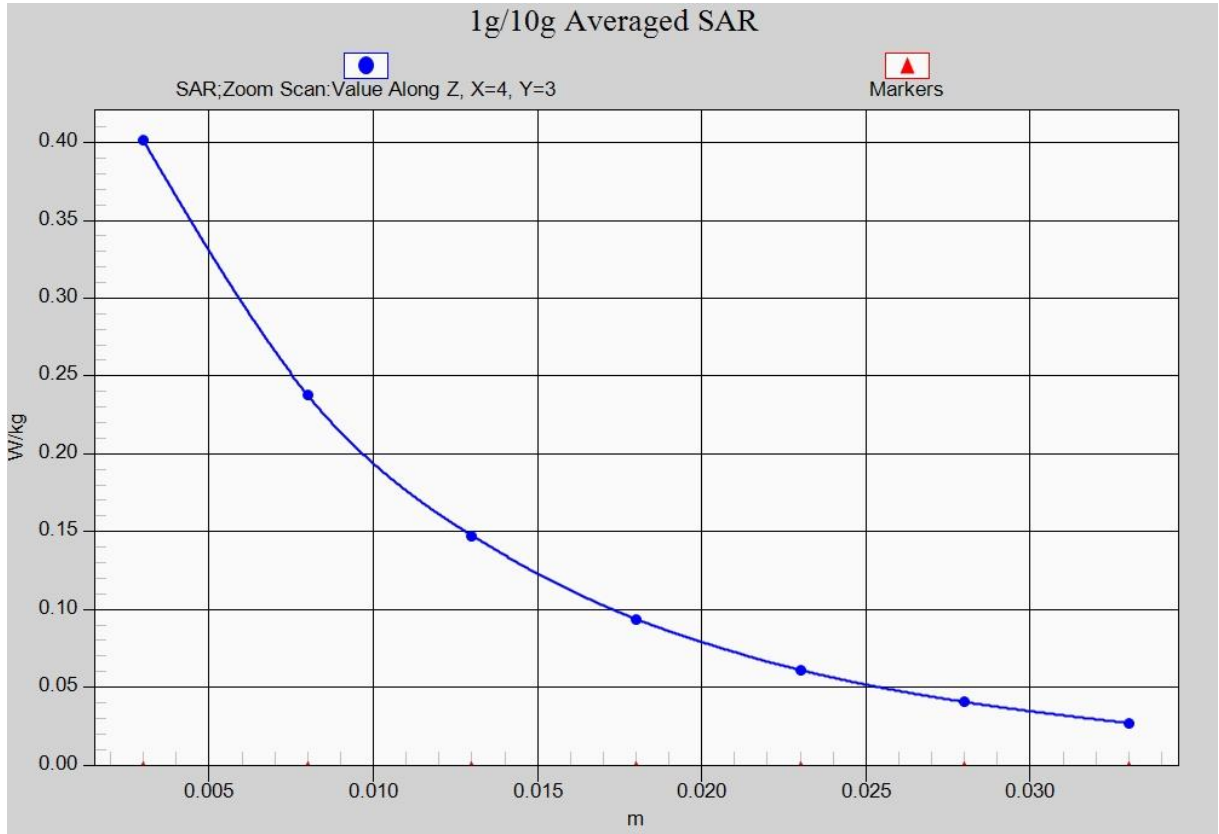


**Fig.6 WCDMA 850**

**Fig. 6-1    Z-Scan at power reference point (WCDMA850)**

## WCDMA 1700 Left Cheek Low

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 1750 MHz

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.307 mho/m; εr = 40.677; ρ = 1000 kg/m$^3$

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

Communication System: WCDMA 1750 Frequency: 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) = 0.237 W/kg


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

Reference Value = 5.211 V/m; Power Drift = −0.10 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.129 W/kg

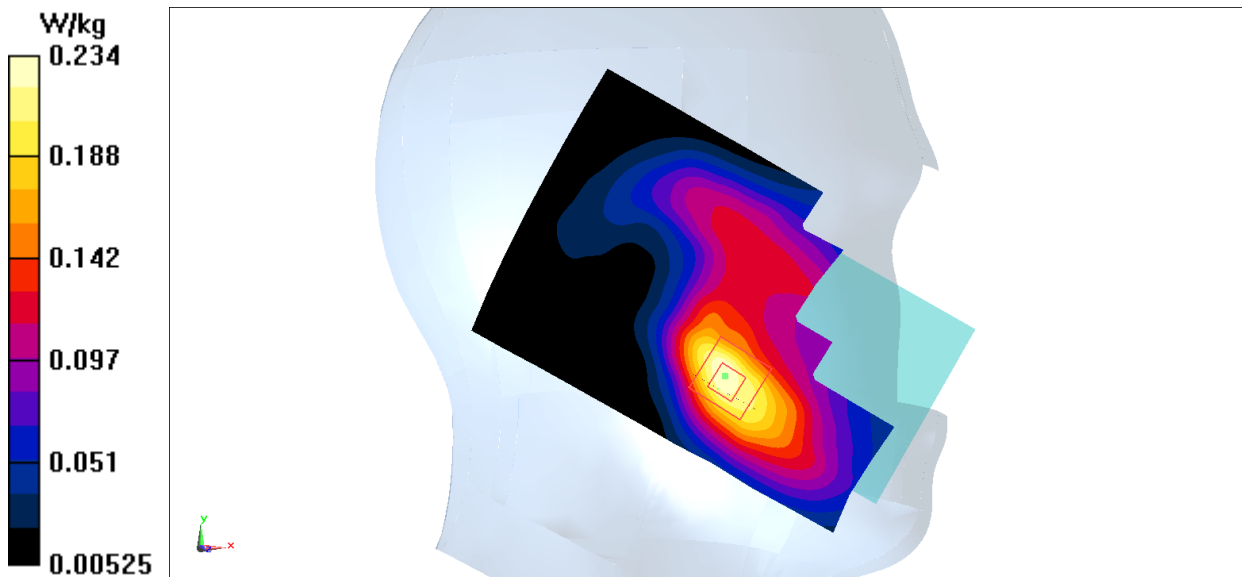Maximum value of SAR (measured) = 0.234 W/kg
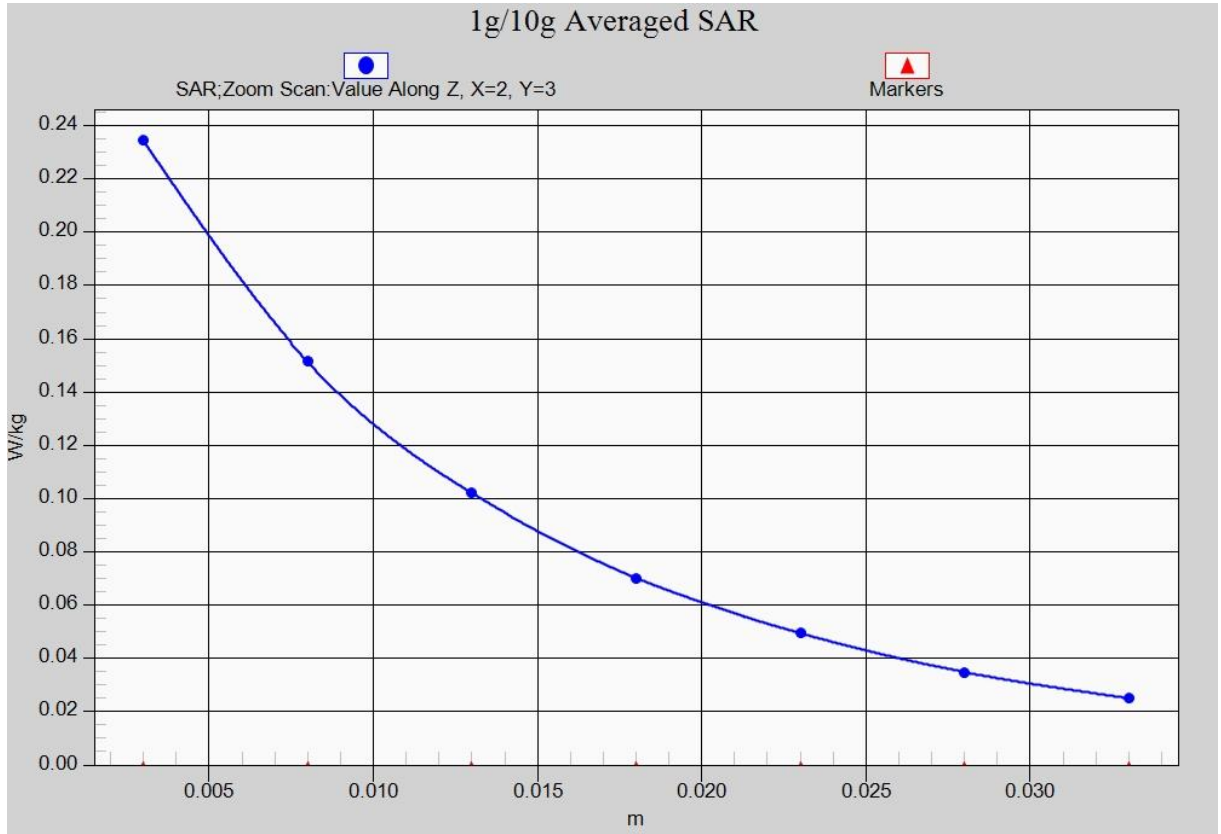


**Fig.7 WCDMA1700**

**Fig. 7-1   Z-Scan at power reference point (WCDMA1700)**

**WCDMA 1700 Body Rear Low**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body 1750 MHz

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.503 mho/m; εr = 53.618; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

Communication System: WCDMA 1900 Frequency: 1712.4 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(8.60, 8.60, 8.60)


Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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


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

Reference Value = 10.54 V/m; Power Drift = −0.02 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.582 W/kg
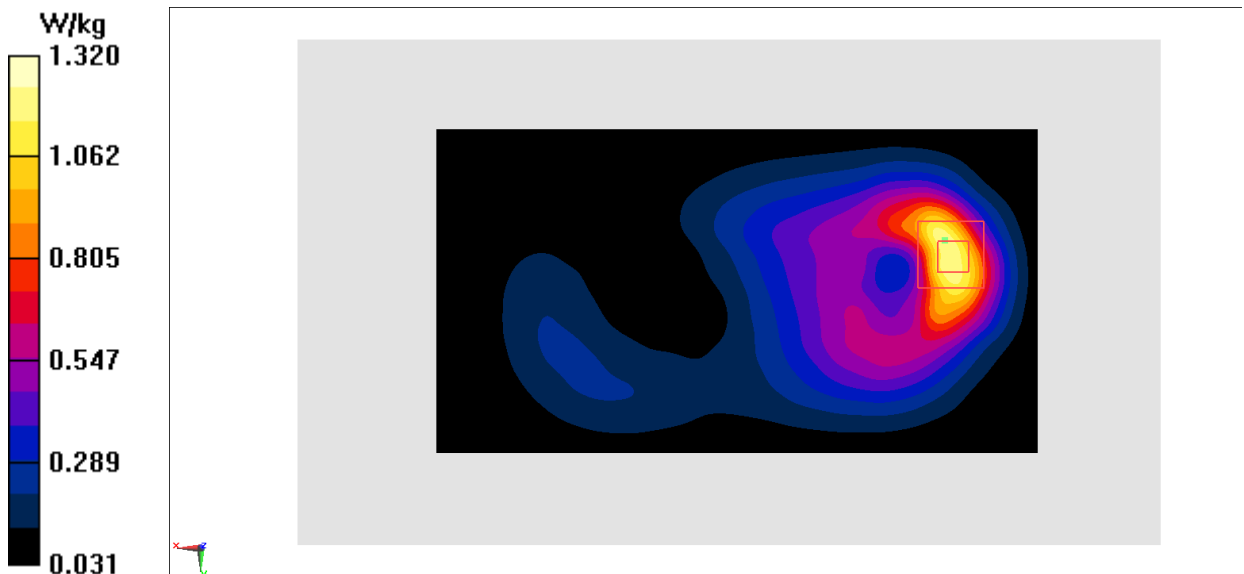
Maximum value of SAR (measured) = 1.32 W/kg
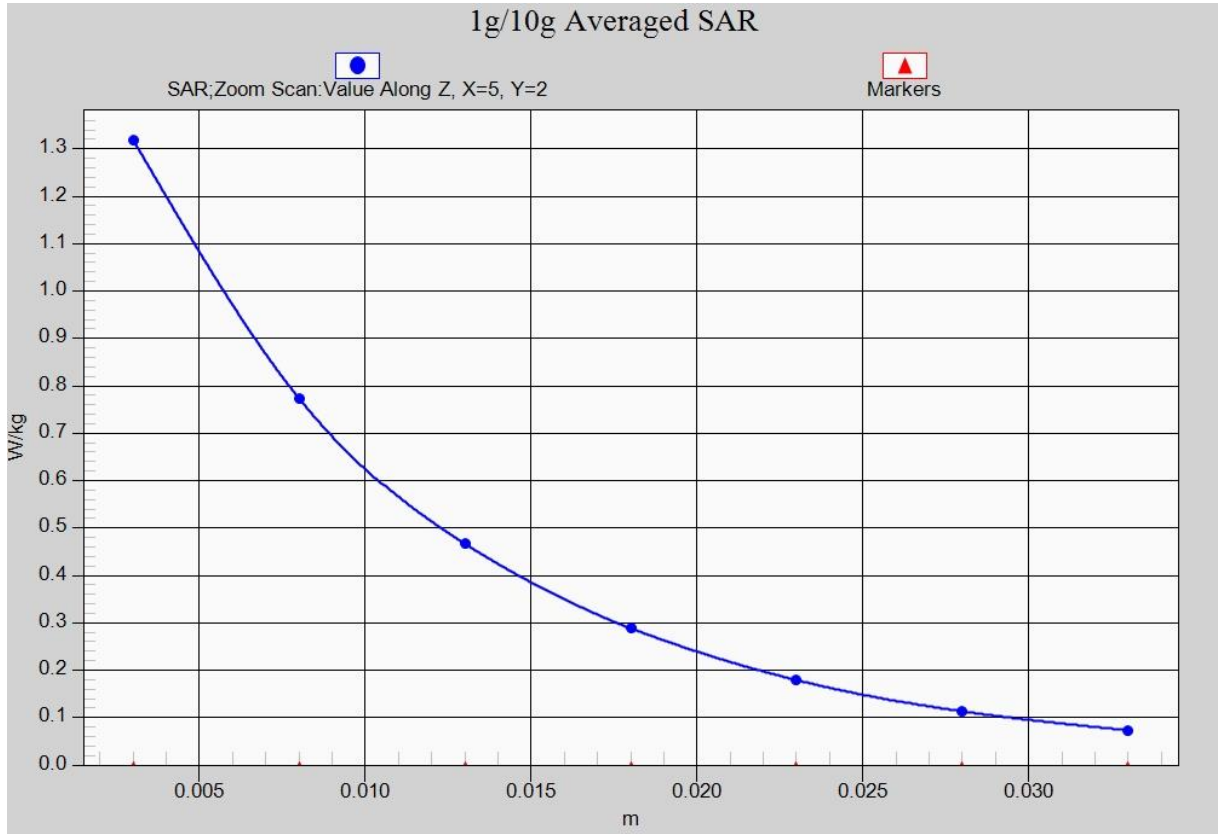


**Fig.8 WCDMA1700**

**Fig. 8-1  Z-Scan at power reference point (WCDMA1700)**

## WCDMA 1900 Right Cheek Middle

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Head 1900 MHz

Medium parameters used: f = 1880 MHz; σ = 1.446 mho/m; εr = 40.71; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9$^o$C          Liquid Temperature: 22.5$^o$C

Communication System: WCDMA 1900 Frequency: 1880 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) = 0.273 W/kg


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

Reference Value = 5.546 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.210 W/kg; SAR(10 g) = 0.129 W/kg

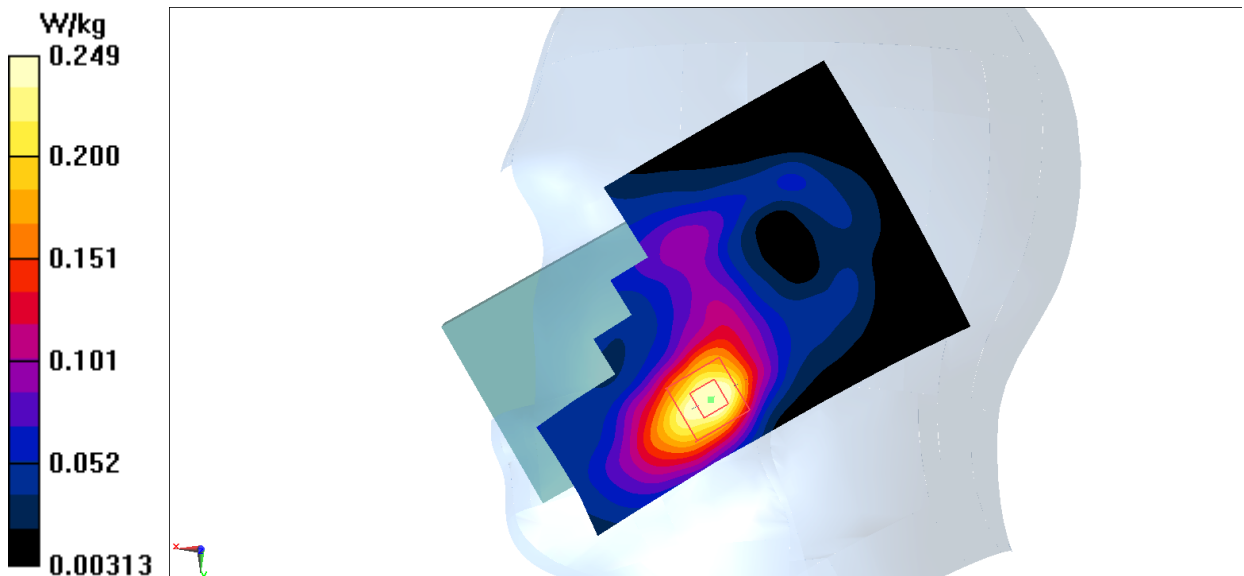Maximum value of SAR (measured) = 0.249 W/kg
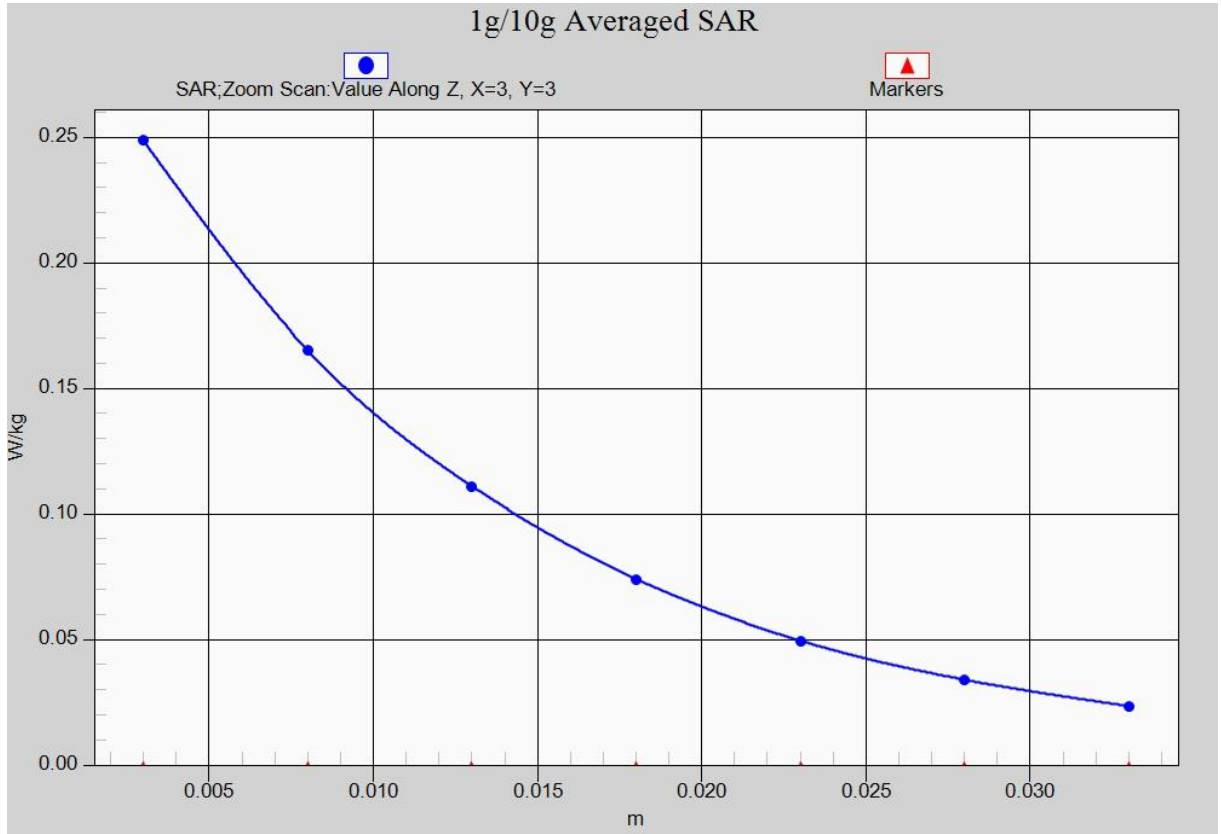


**Fig.9 WCDMA1900**

**Fig. 9-1    Z-Scan at power reference point (WCDMA1900)**

## WCDMA 1900 Body Rear High

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Body 1900 MHz

Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.592 mho/m; εr = 53.15; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

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

Probe: EX3DV4– SN7464 ConvF(8.32, 8.32, 8.32)


Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.28 W/kg


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

Reference Value = 8.127 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.570 W/kg

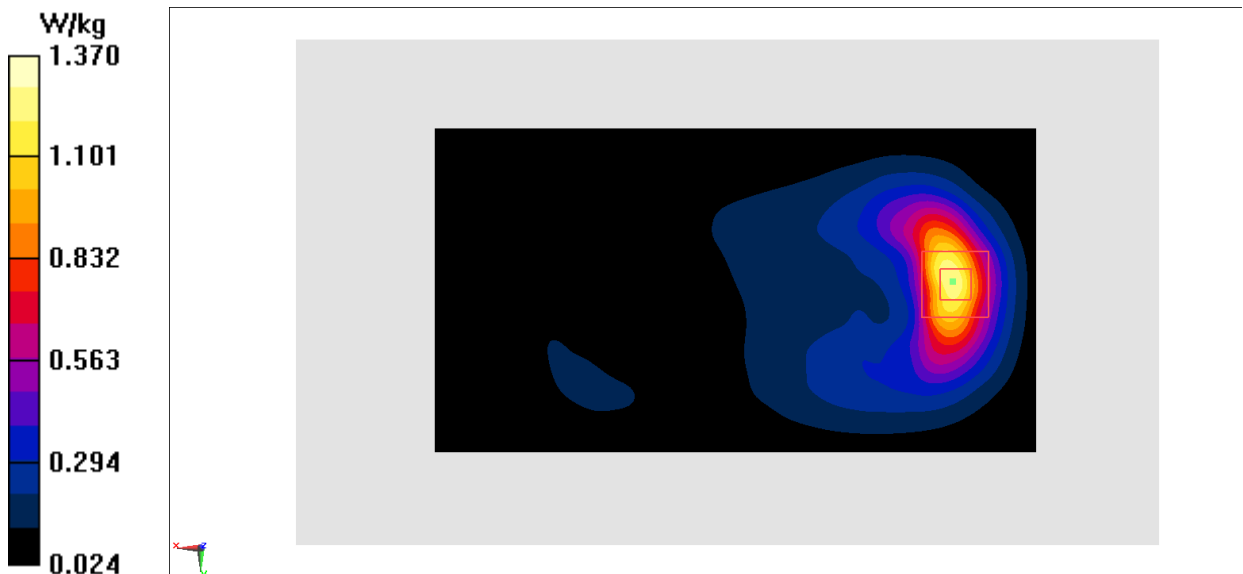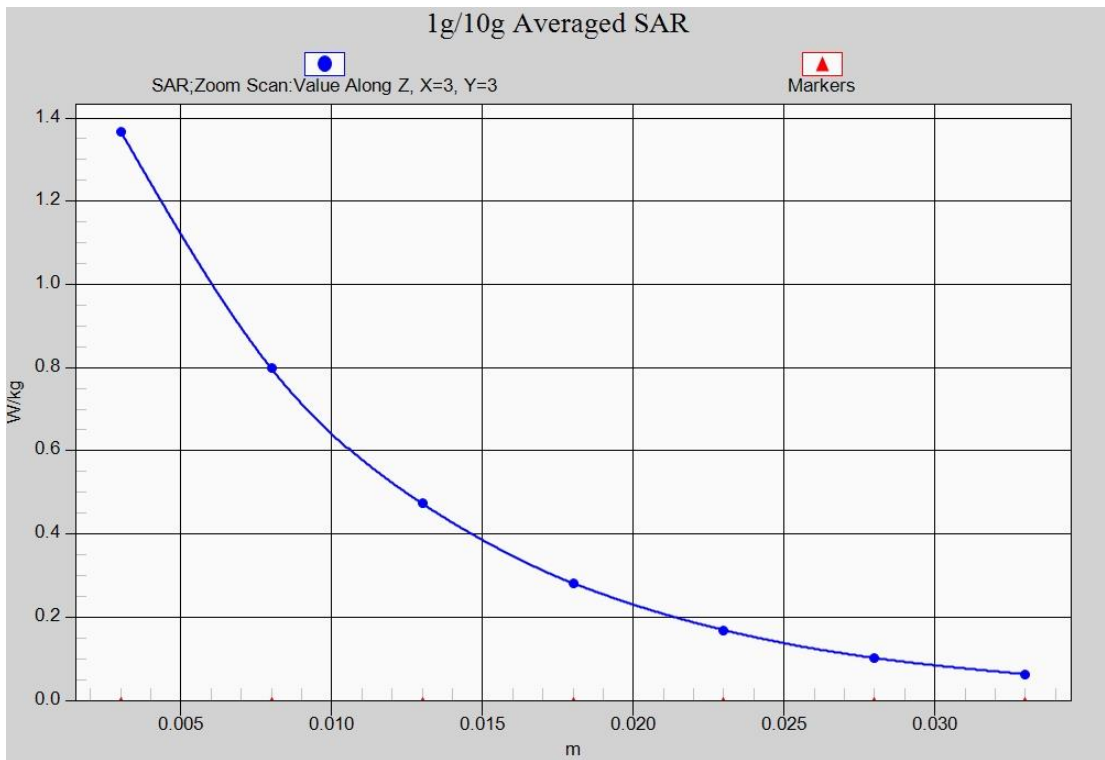Maximum value of SAR (measured) = 1.37 W/kg



**Fig.10 WCDMA1900**

**Fig. 10-1    Z-Scan at power reference point (WCDMA1900)**

**LTE Band2 Right Cheek High with QPSK_20M_1RB_Middle**

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Head 1900 MHz

Medium parameters used: f = 1900 MHz; σ =1.432. mho/m; εr = 40.81; ρ = 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– 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) = 0.246 W/kg


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

Reference Value = 4.736 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.291 W/kg

SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.113 W/kg

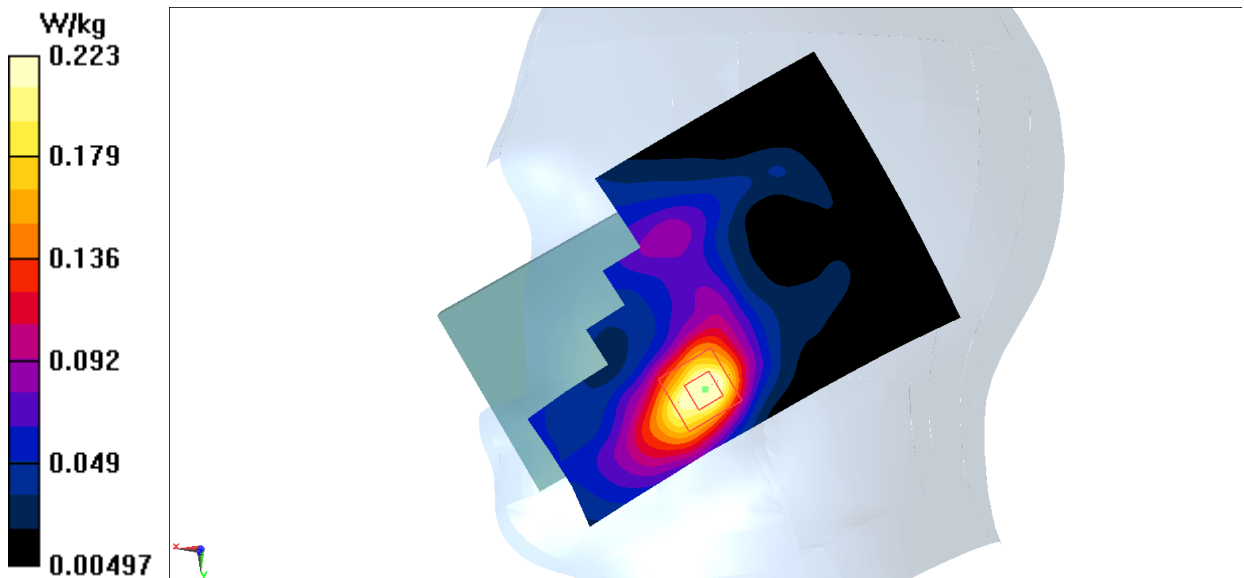Maximum value of SAR (measured) = 0.223 W/kg
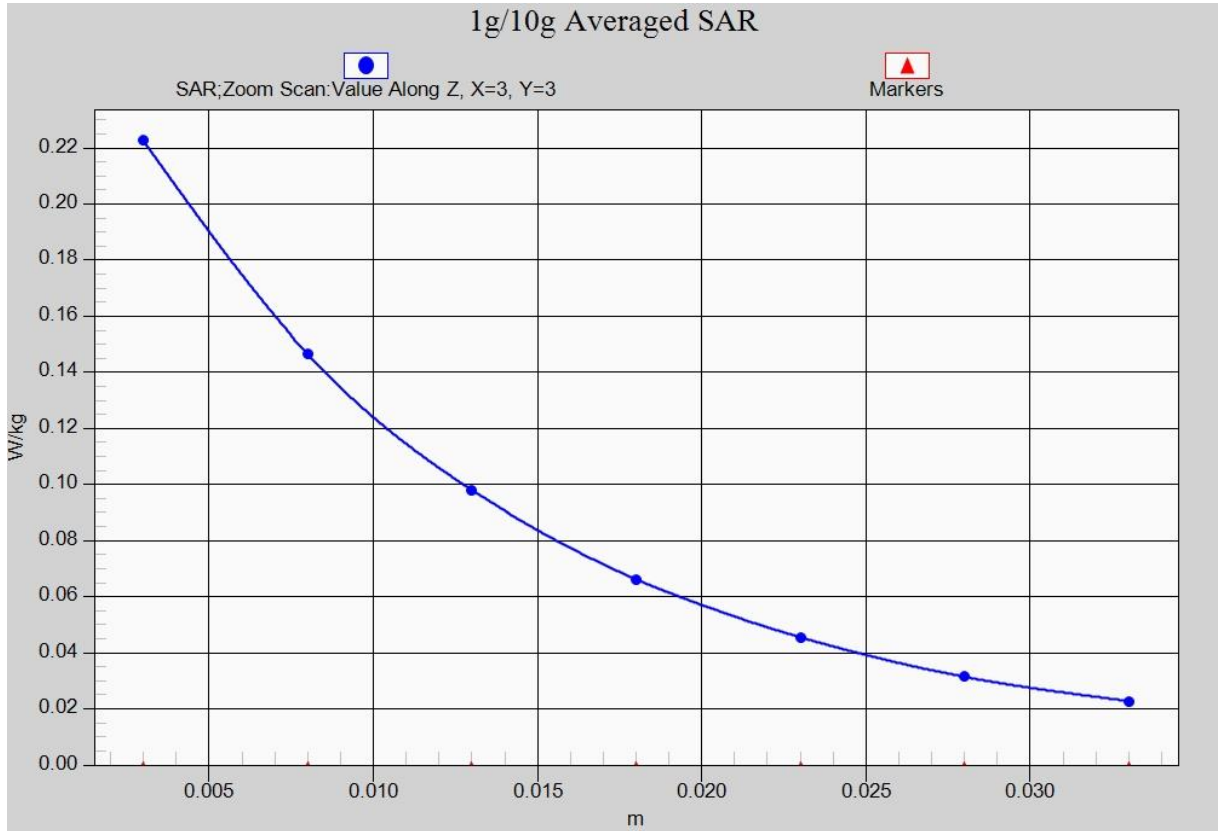


**Fig.11 LTE Band2**

**Fig. 11-1　Z-Scan at power reference point (LTE Band2)**

**LTE Band2 Body Rear High with QPSK_20M_1RB_Middle**

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Body 1900 MHz

Medium parameters used: f = 1900 MHz; σ = 1.548 mho/m; εr = 52.94; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

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

Probe: EX3DV4– SN7464 ConvF(8.32, 8.32, 8.32)


Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.17 W/kg
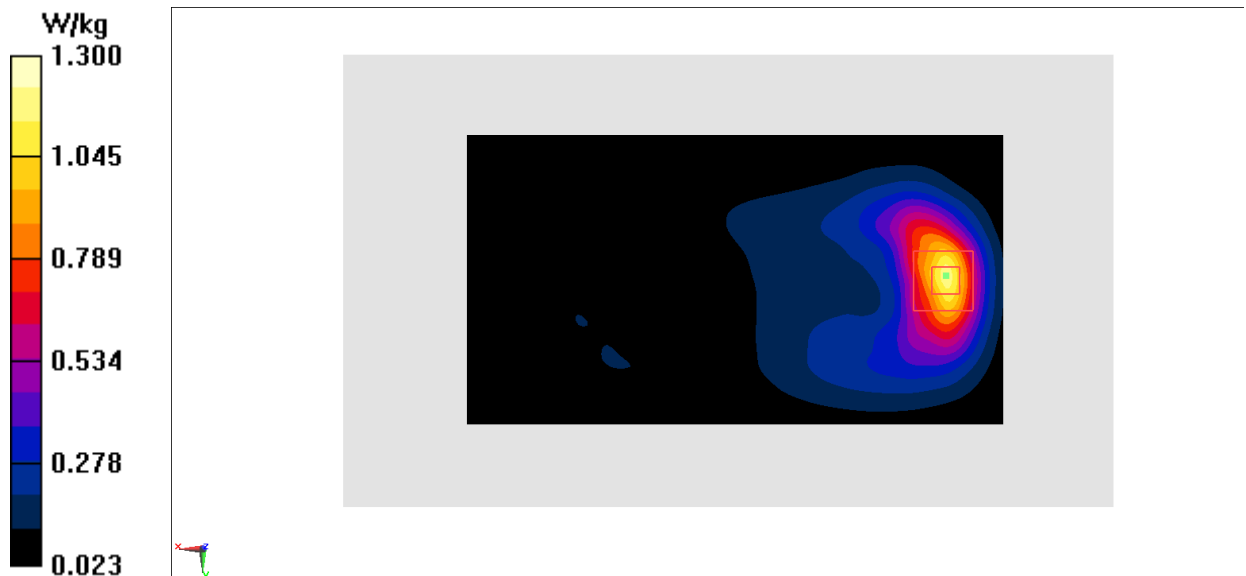

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.150 V/m; Power Drift = −0.06 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.539 W/kg

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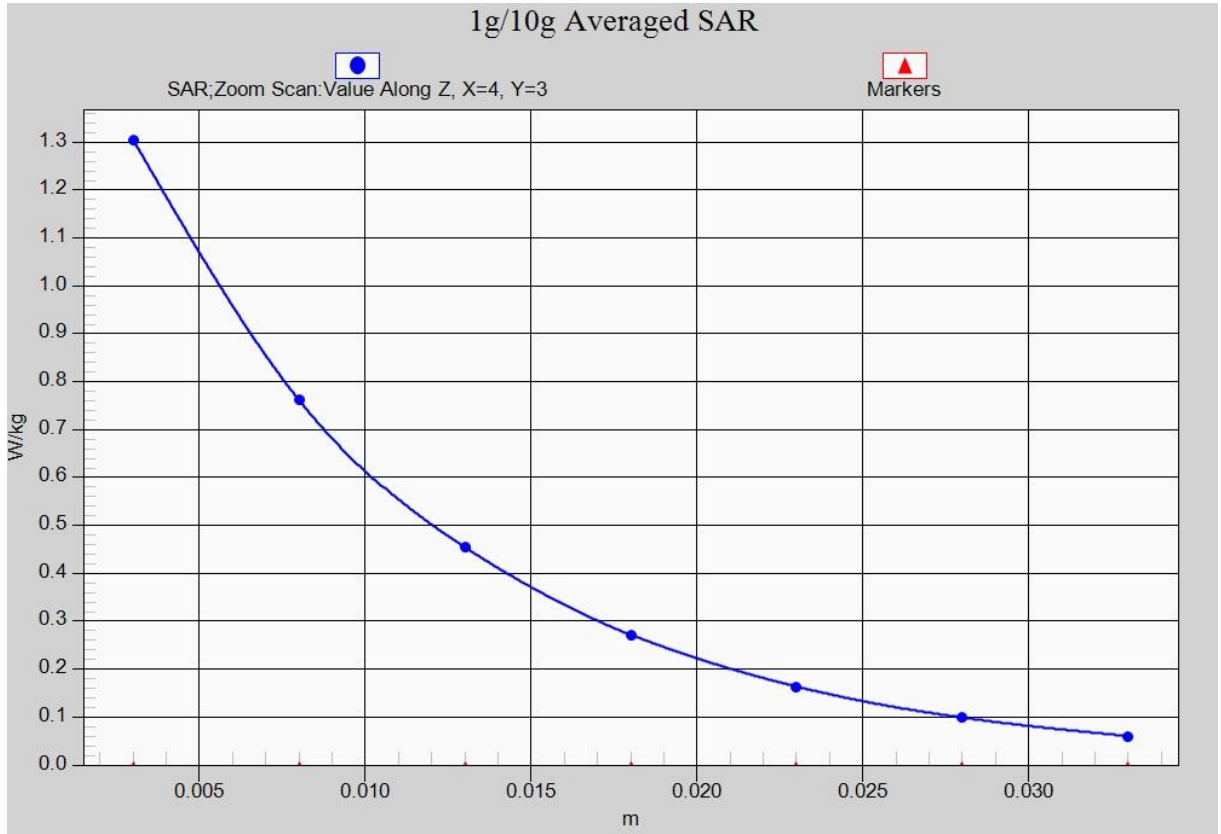


**Fig.12 LTE Band2**

**Fig. 12-1    Z-Scan at power reference point (LTE Band2)**

**LTE Band5 Right Cheek Low with QPSK_10M_1RB_High**

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Head 850 MHz

Medium parameters used (interpolated): f = 829 MHz; σ = 0.893 mho/m; εr = 42.061; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band5 Frequency: 829 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) = 0.199 W/kg


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

Reference Value = 3.703 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.225 W/kg

**SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.139 W/kg**

Maximum value of SAR (measured) = 0.219 W/kg



**Fig.13 LTE Band5**

**Fig. 13-1    Z-Scan at power reference point (LTE Band5)**

**LTE Band5 Body Rear Low with QPSK_10M_1RB_High**

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Body 850 MHz

Medium parameters used (interpolated): f = 829 MHz; σ = 1.012 mho/m; εr = 55.584; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band5 Frequency: 829 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(10.21, 10.21, 10.21)


Area Scan (71x131x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
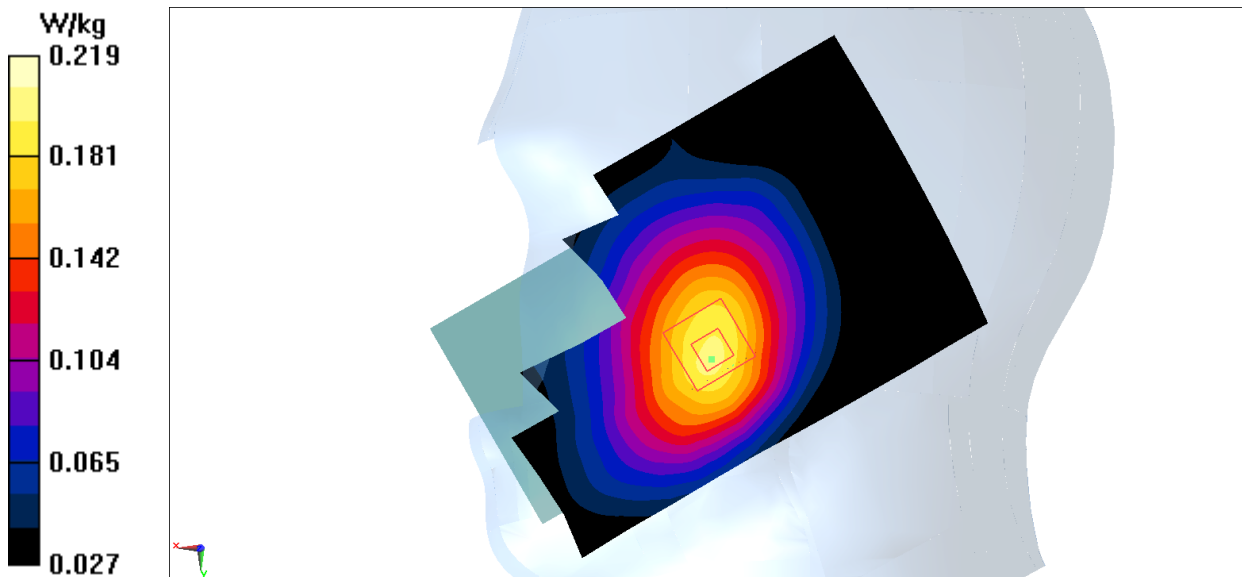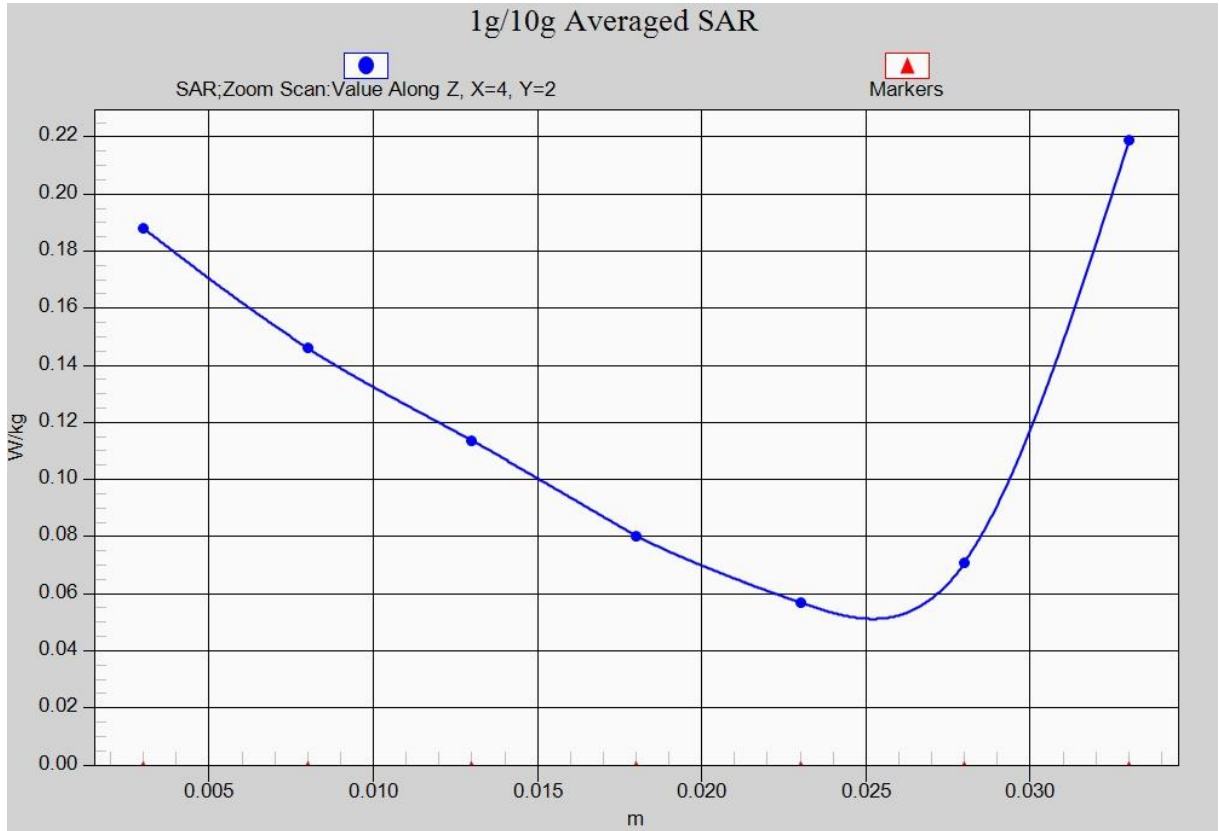
Maximum value of SAR (interpolated) = 0.323 W/kg


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

Reference Value = 18.21 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.367 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.222 W/kg**

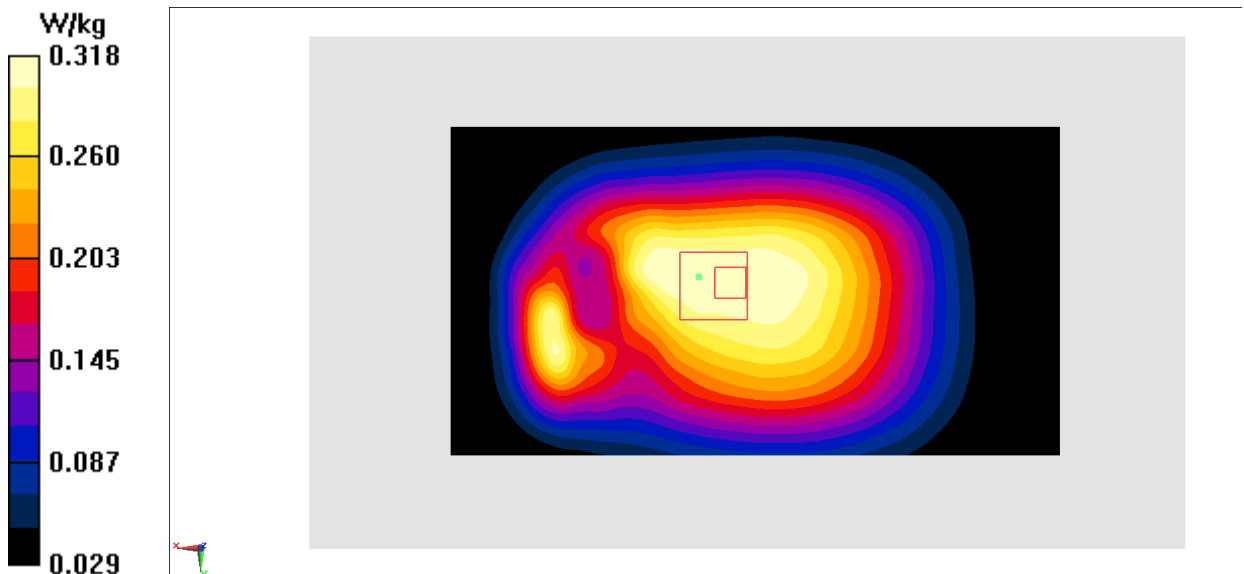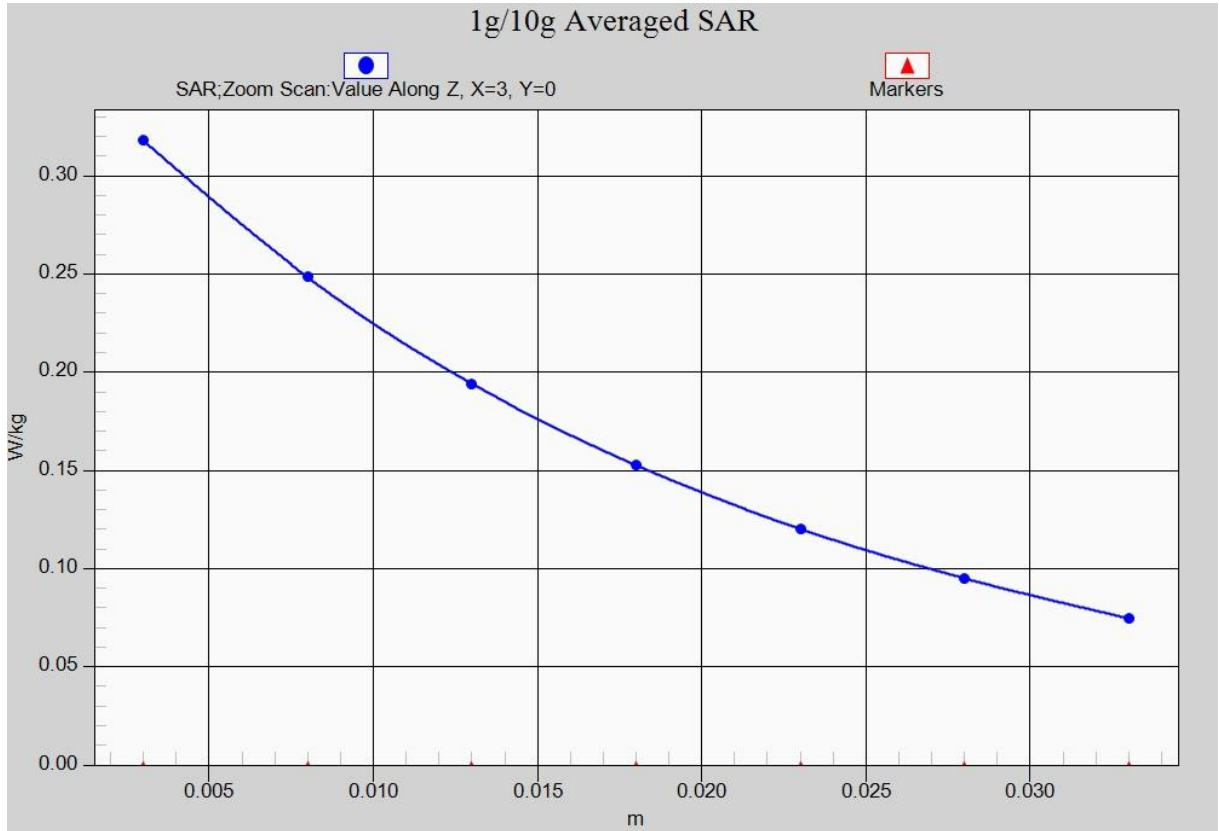Maximum value of SAR (measured) = 0.318 W/kg



**Fig.14 LTE Band5**

**Fig. 14-1    Z-Scan at power reference point (LTE Band5)**

**LTE Band7 Left Cheek Middle with QPSK_20M_1RB_High**

Date: 2018-5-30

Electronics: DAE4 Sn1525

Medium: Head 2600 MHz

Medium parameters used: f = 2535 MHz; σ = 1.925 mho/m; εr = 38.2; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

Communication System: LTE Band7Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(7.76, 7.76, 7.76)


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

Maximum value of SAR (interpolated) = 0.494 W/kg


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

Reference Value = 8.900 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.700 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.188 W/kg

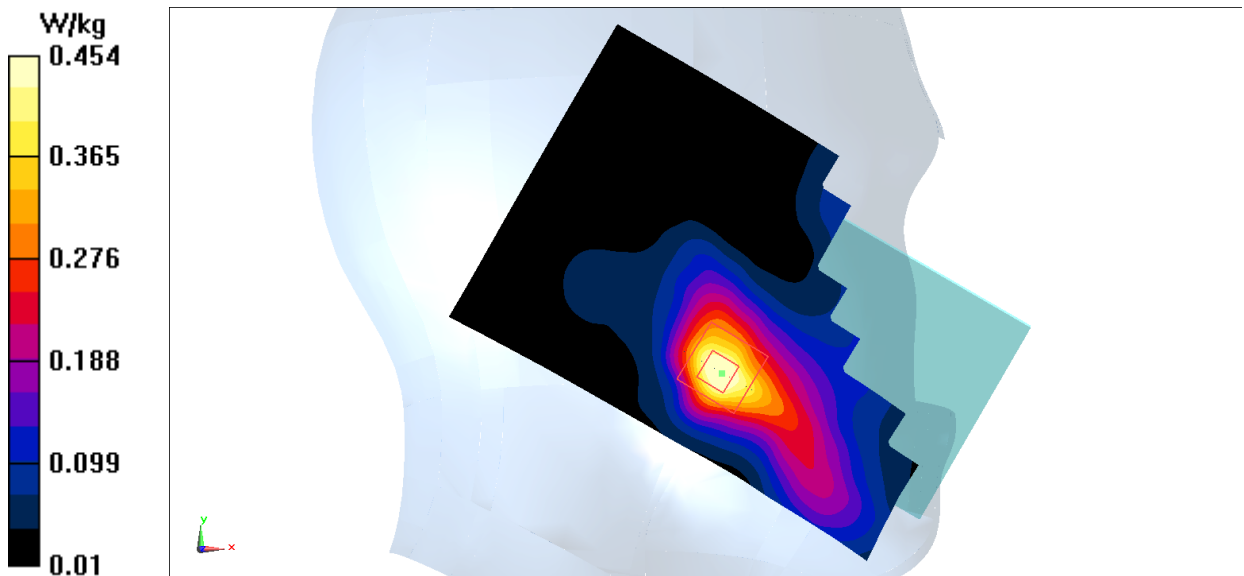Maximum value of SAR (measured) = 0.454 W/kg
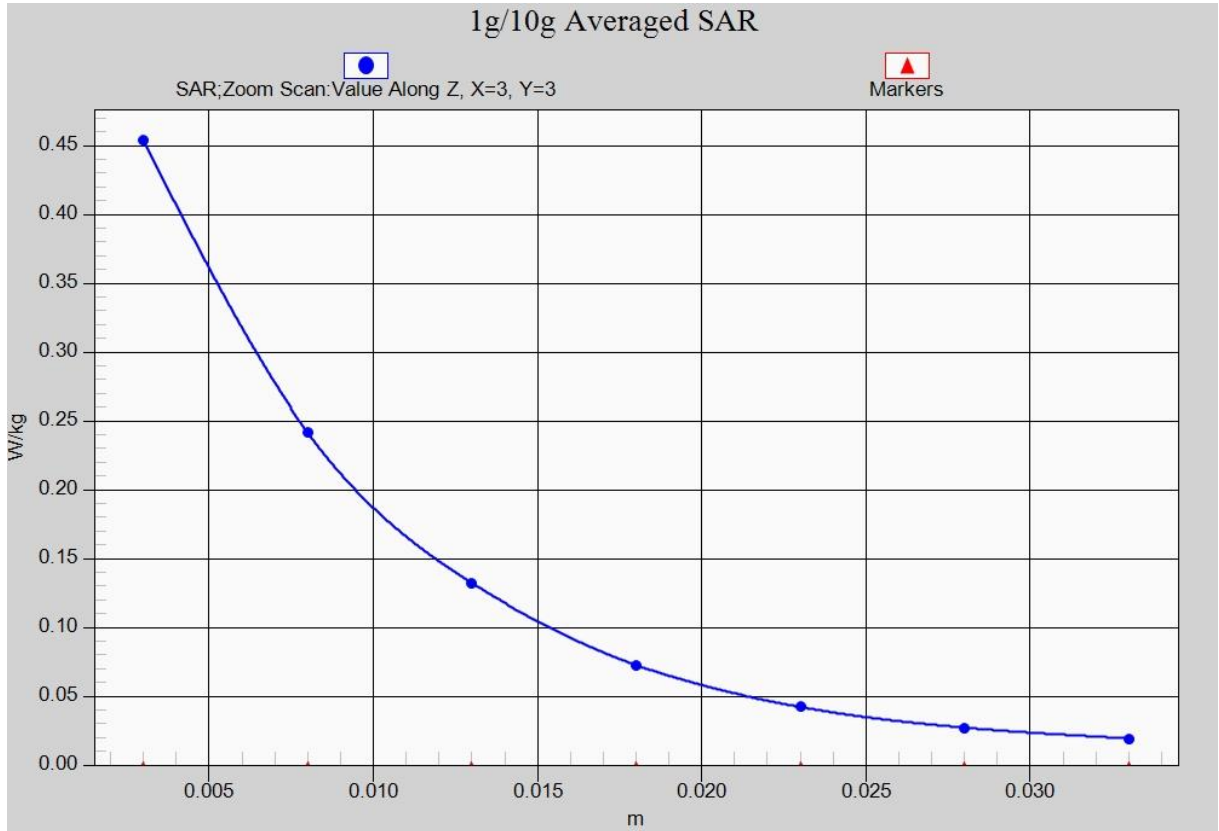


**Fig.15 LTE Band7**

**Fig. 15-1   Z-Scan at power reference point (LTE Band7)**

**LTE Band7 Body Rear Middle with QPSK_20M_1RB_High**

Date: 2018-5-30

Electronics: DAE4 Sn1525

Medium: Body 2600 MHz

Medium parameters used: f = 2535 MHz; σ = 2.212 mho/m; εr = 51.54; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

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

Probe: EX3DV4– SN7464 ConvF(7.84, 7.84, 7.84)


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

Maximum value of SAR (interpolated) = 0.995 W/kg


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

Reference Value = 7.931 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.442 W/kg

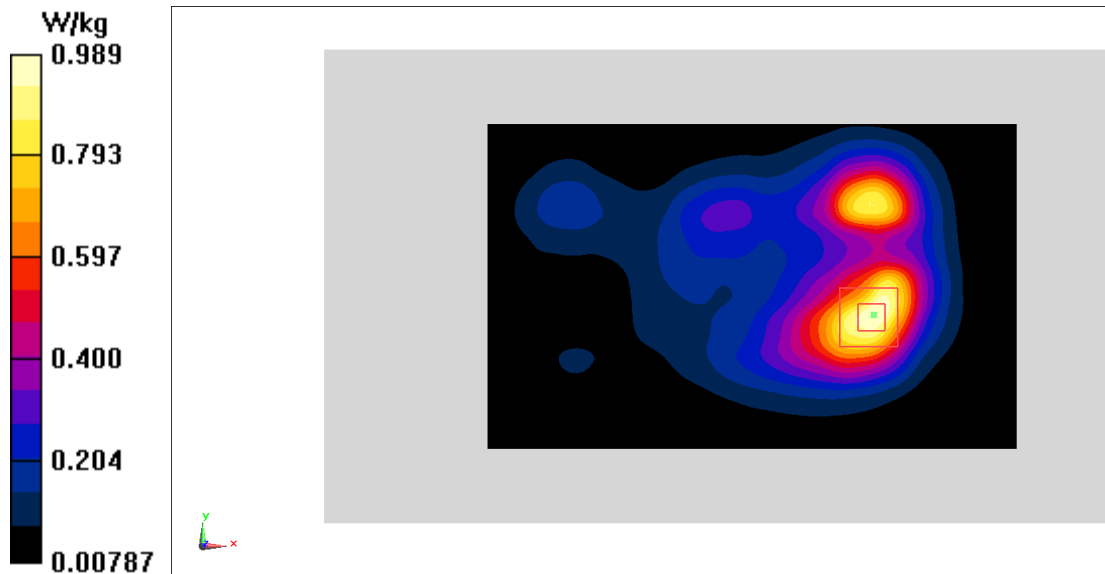Maximum value of SAR (measured) = 0.989 W/kg
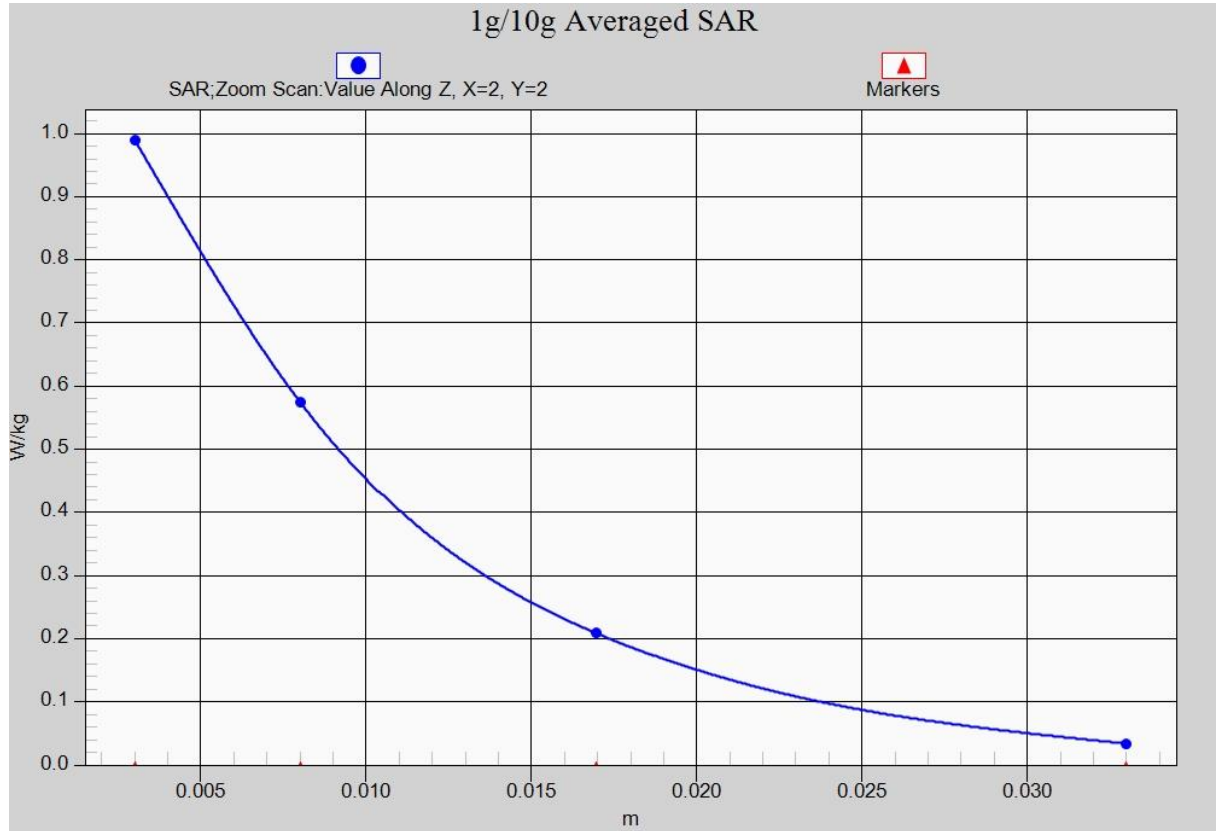


**Fig.16 LTE Band7**

**Fig. 16-1    Z-Scan at power reference point (LTE Band7)**

**LTE Band12 Right Cheek High with QPSK_10M_1RB_High**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used (interpolated): f = 711 MHz; σ = 0.859 mho/m; εr = 42.63; ρ = 1000 kg/m$^3$

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

Communication System: LTE Band12Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(10.57, 10.57, 10.57)


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

Maximum value of SAR (interpolated) = 0.147 W/kg


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

Reference Value = 4.452 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.105 W/kg

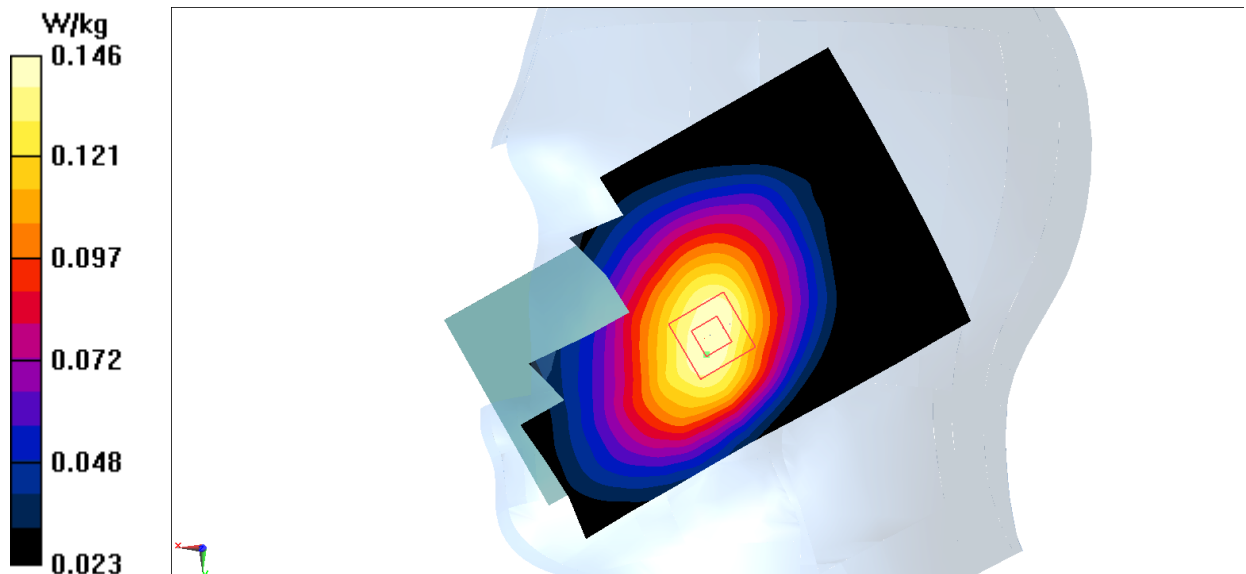Maximum value of SAR (measured) = 0.146 W/kg
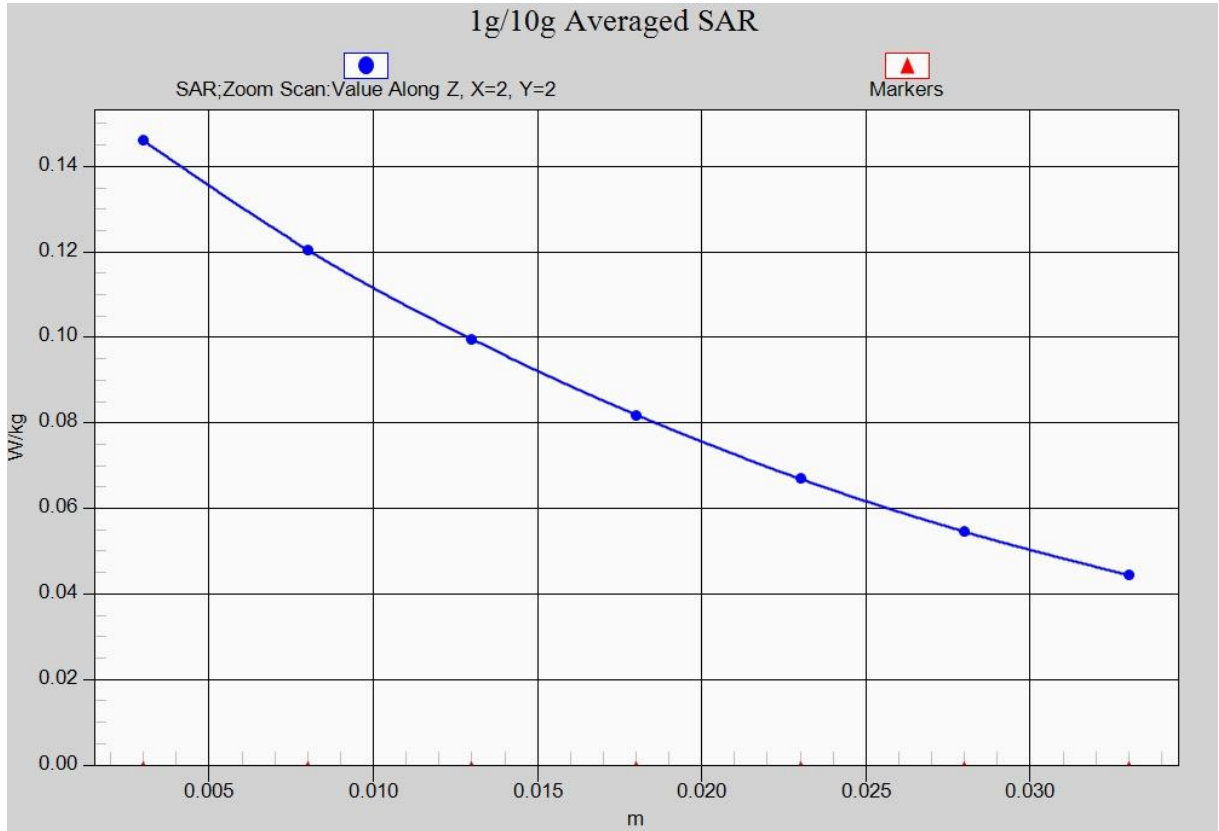


**Fig.17 LTE Band12**

**Fig. 17-1    Z-Scan at power reference point (LTE Band12)**

**LTE Band12 Body Rear High with QPSK_10M_1RB_High**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body750 MHz

Medium parameters used (interpolated): f = 711 MHz; σ = 0.944 mho/m; εr = 56.56; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band12Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(10.63, 10.63, 10.63)


Area Scan (71x131x1): 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 = 19.93 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.270 W/kg

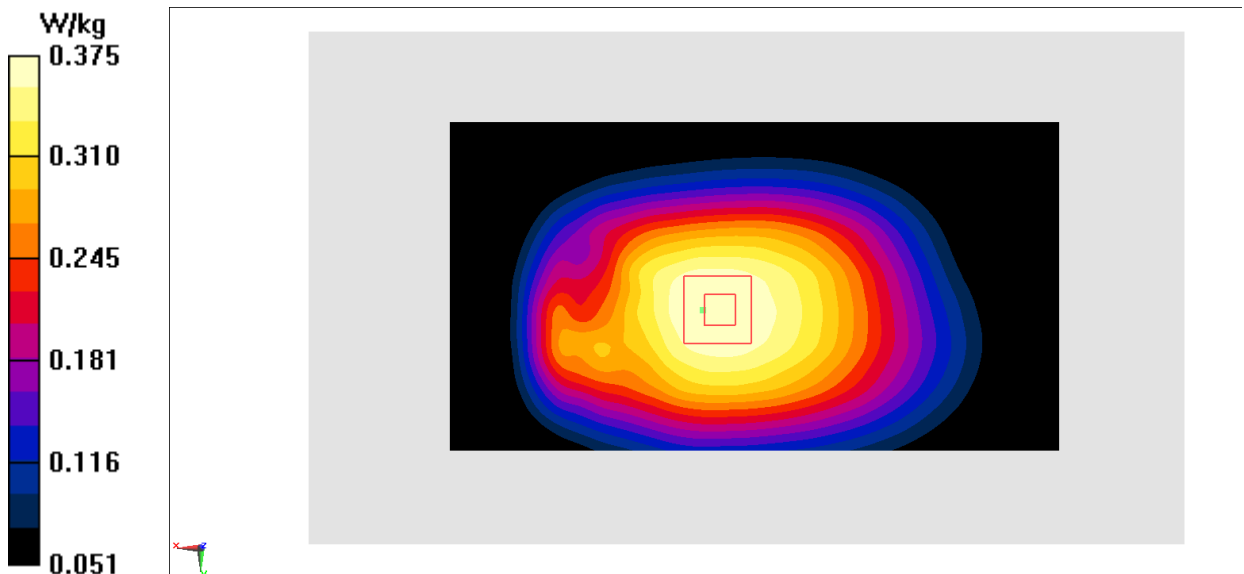Maximum value of SAR (measured) = 0.375 W/kg
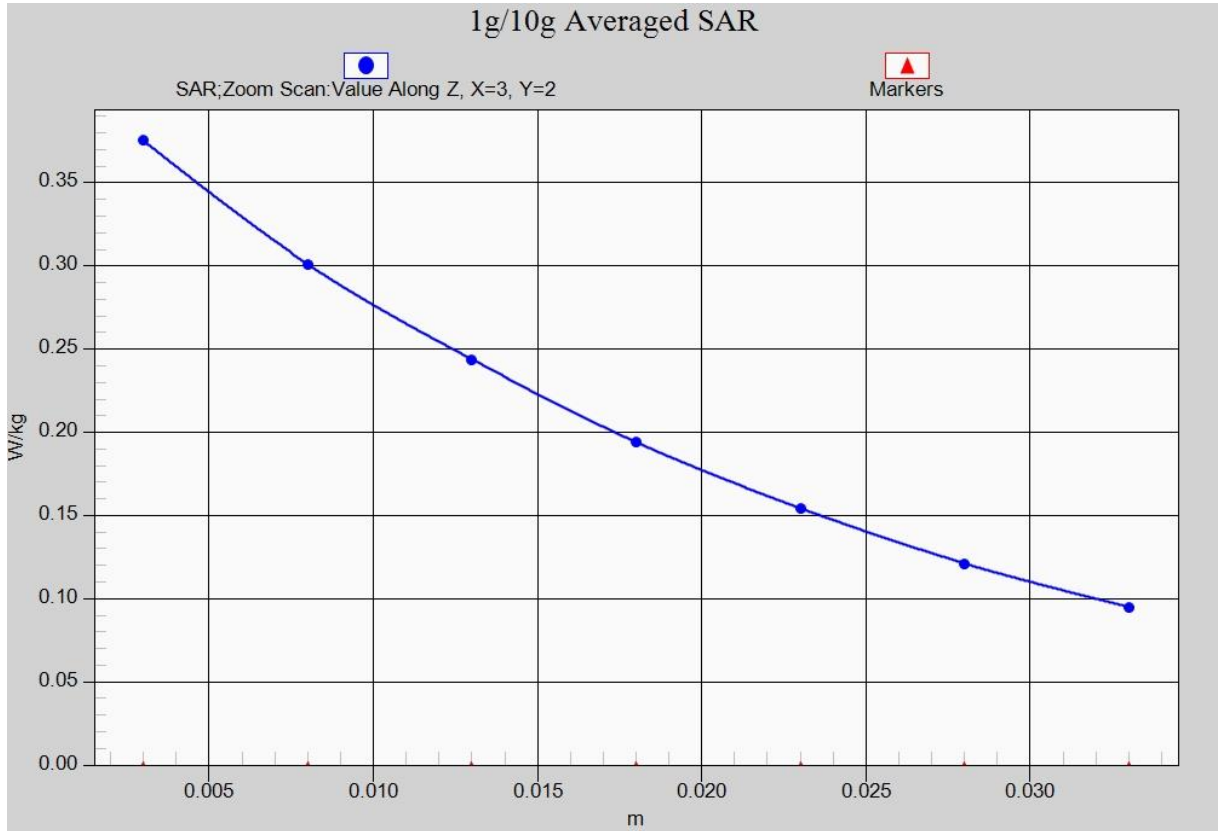


**Fig.18 LTE Band12**

**Fig. 18-1    Z-Scan at power reference point (LTE Band12)**

**LTE Band13 Right Cheek with QPSK_10M_1RB_Low**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used (interpolated): f = 782 MHz; σ = 0.887 mho/m; εr = 42.48; ρ = 1000 kg/m³

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band13Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(10.57, 10.57, 10.57)


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

Maximum value of SAR (interpolated) = 0.150 W/kg


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

Reference Value = 3.856 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.103 W/kg**

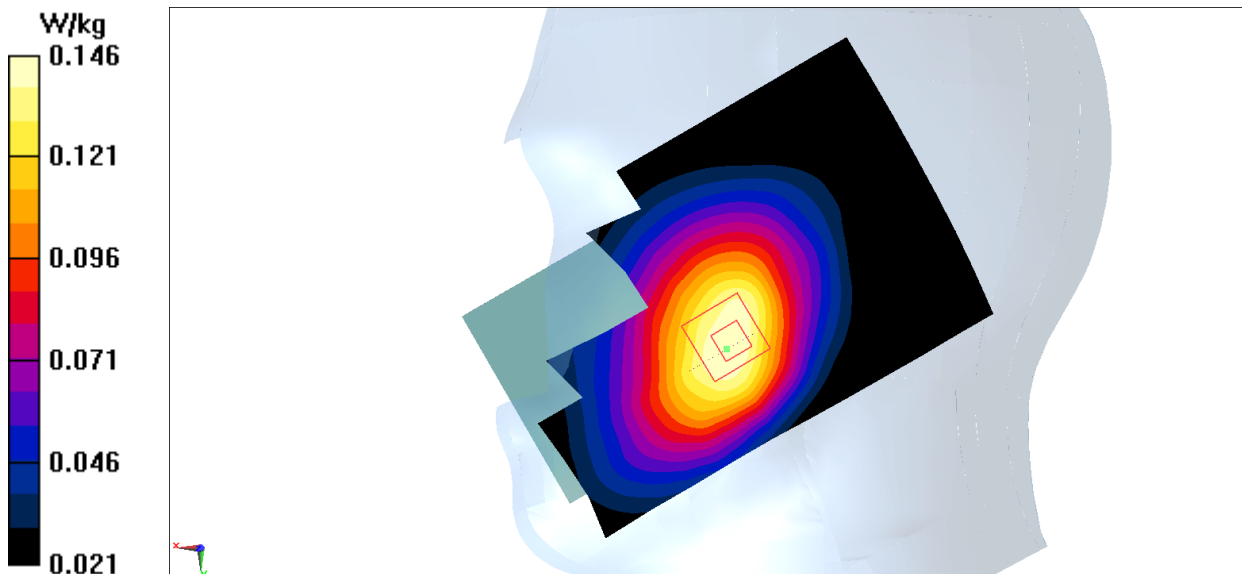Maximum value of SAR (measured) = 0.146 W/kg
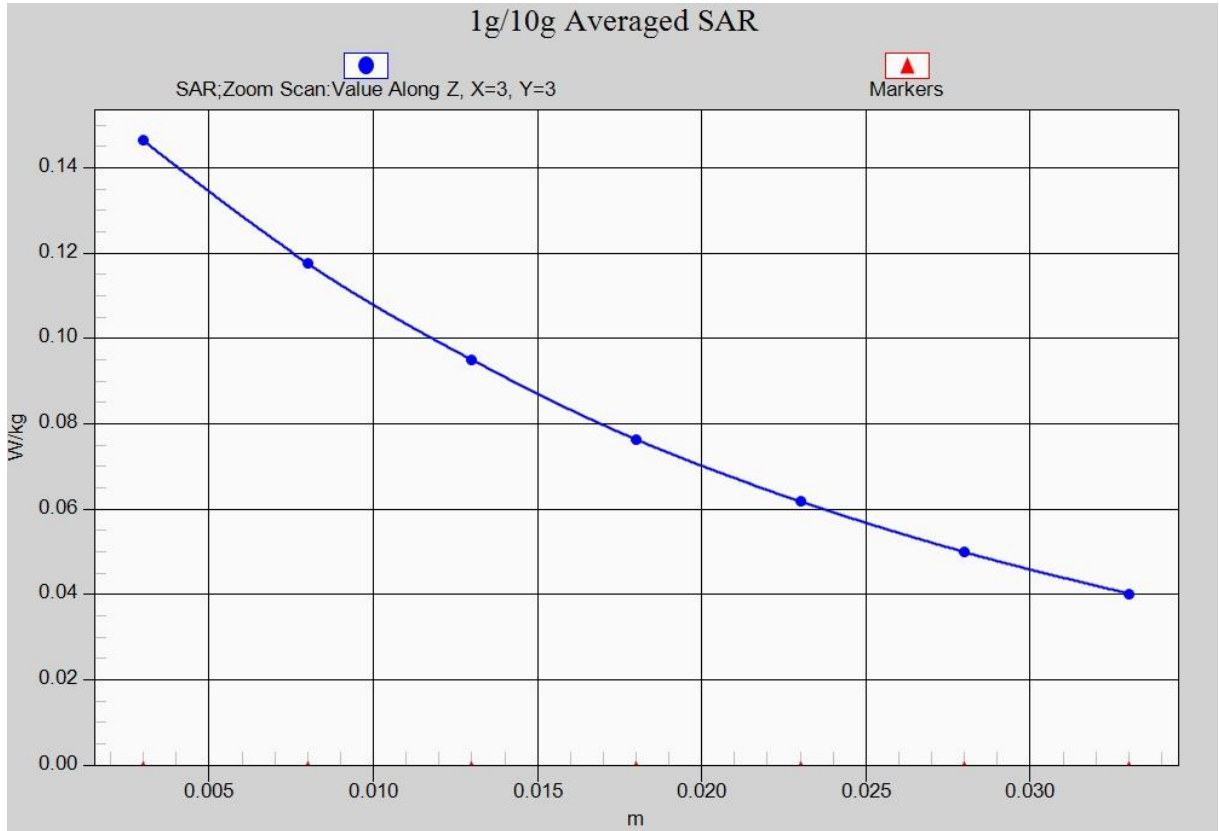


**Fig.19 LTE Band13**

**Fig. 19-1　Z-Scan at power reference point (LTE Band13)**

**LTE Band13 Body Rear with QPSK_10M_1RB_Low**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body 750 MHz

Medium parameters used (interpolated): f = 782 MHz; σ = 0.971 mho/m; εr = 56.47; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band13Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(10.63, 10.63, 10.63)


**Area Scan (71x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.321 W/kg


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

Reference Value = 17.39 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.537 W/kg

**SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.167 W/kg**

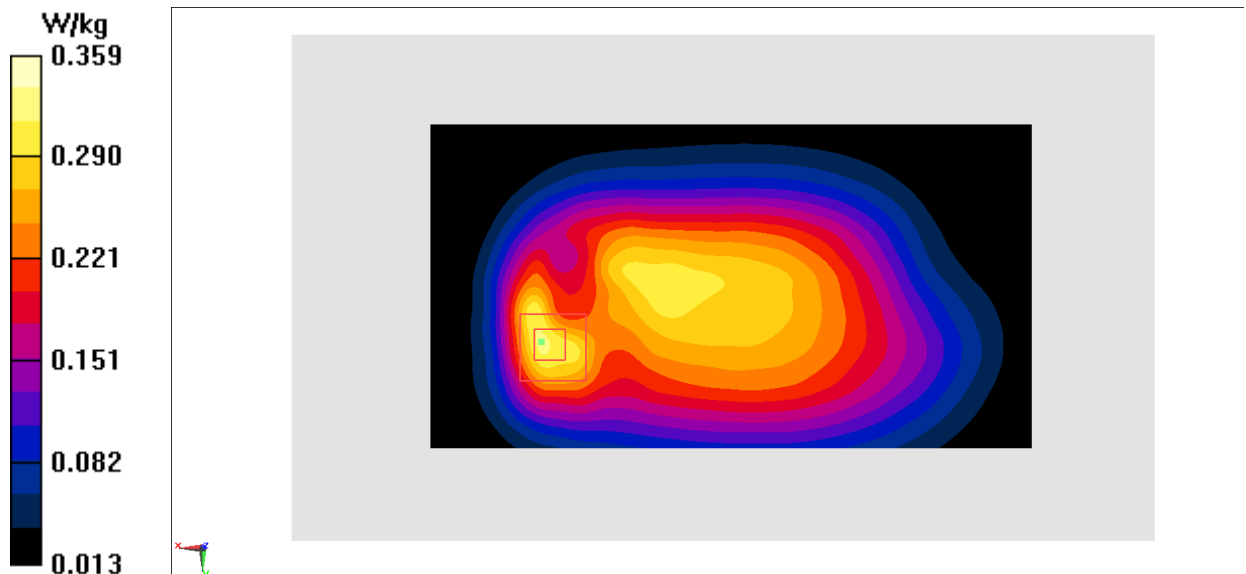Maximum value of SAR (measured) = 0.359 W/kg



**Fig.20 LTE Band13**

**Fig. 20-1    Z-Scan at power reference point (LTE Band13)**

**LTE Band 41 Left Cheek with QPSK_20M_1RB_Low**

Date: 2018-5-30

Electronics: DAE4 Sn1525

Medium: Head 2600 MHz

Medium parameters used: f = 2680 MHz; σ = 2.008 mho/m; εr = 38.98; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

Communication System: LTE Band41 Frequency: 2680 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 - SN7464 ConvF(7.76, 7.76, 7.76)


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

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


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

Reference Value = 9.173 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.318 W/kg

**SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.077 W/kg**

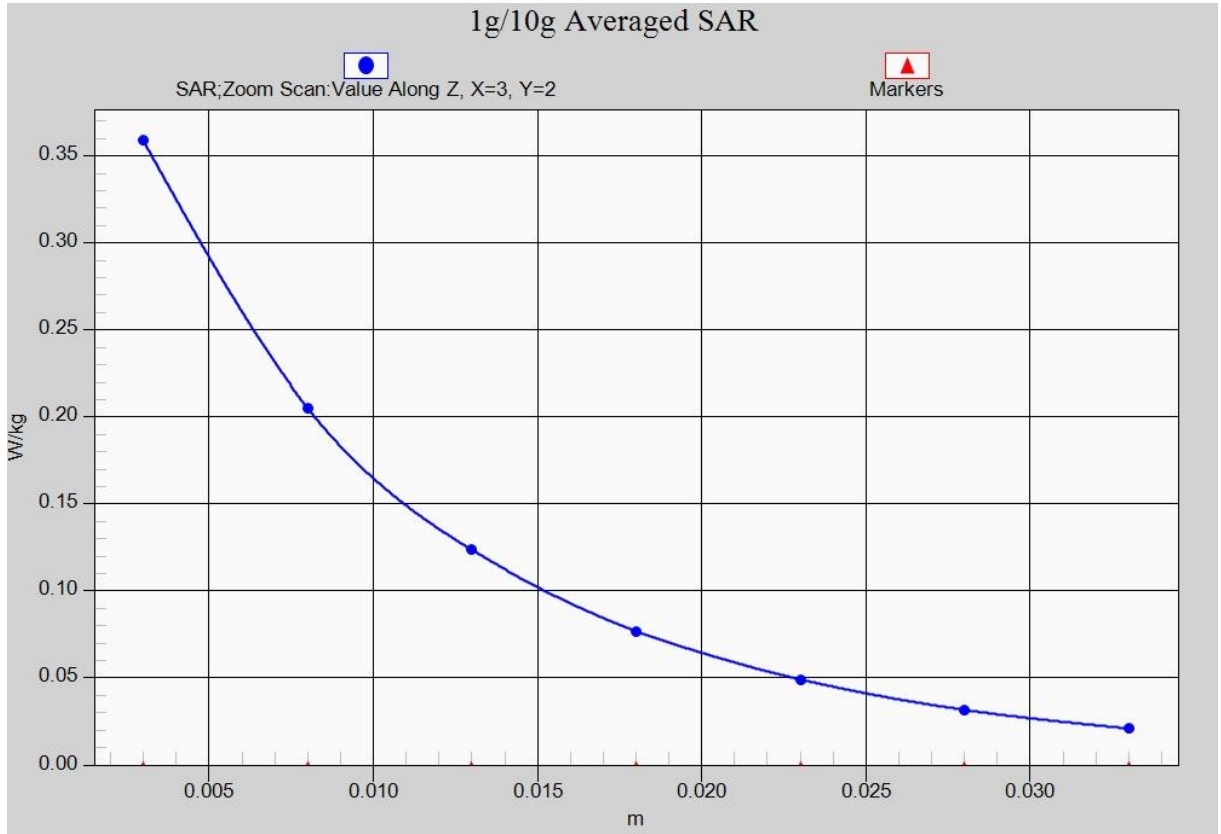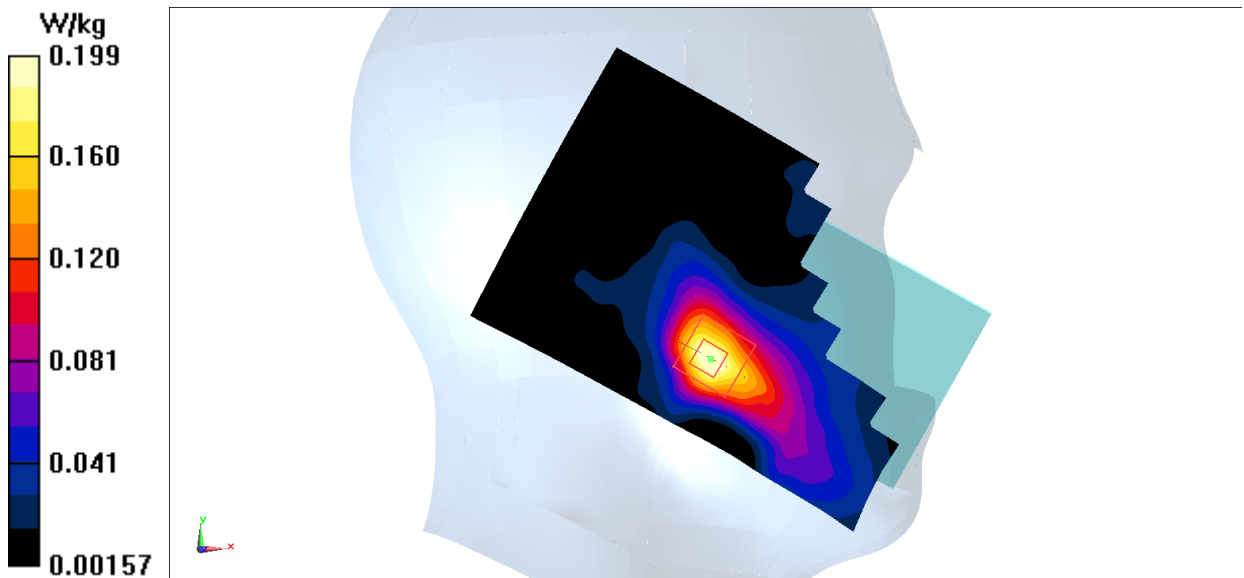Maximum value of SAR (measured) = 0.199 W/kg



**Fig.21 LTE Band 41**
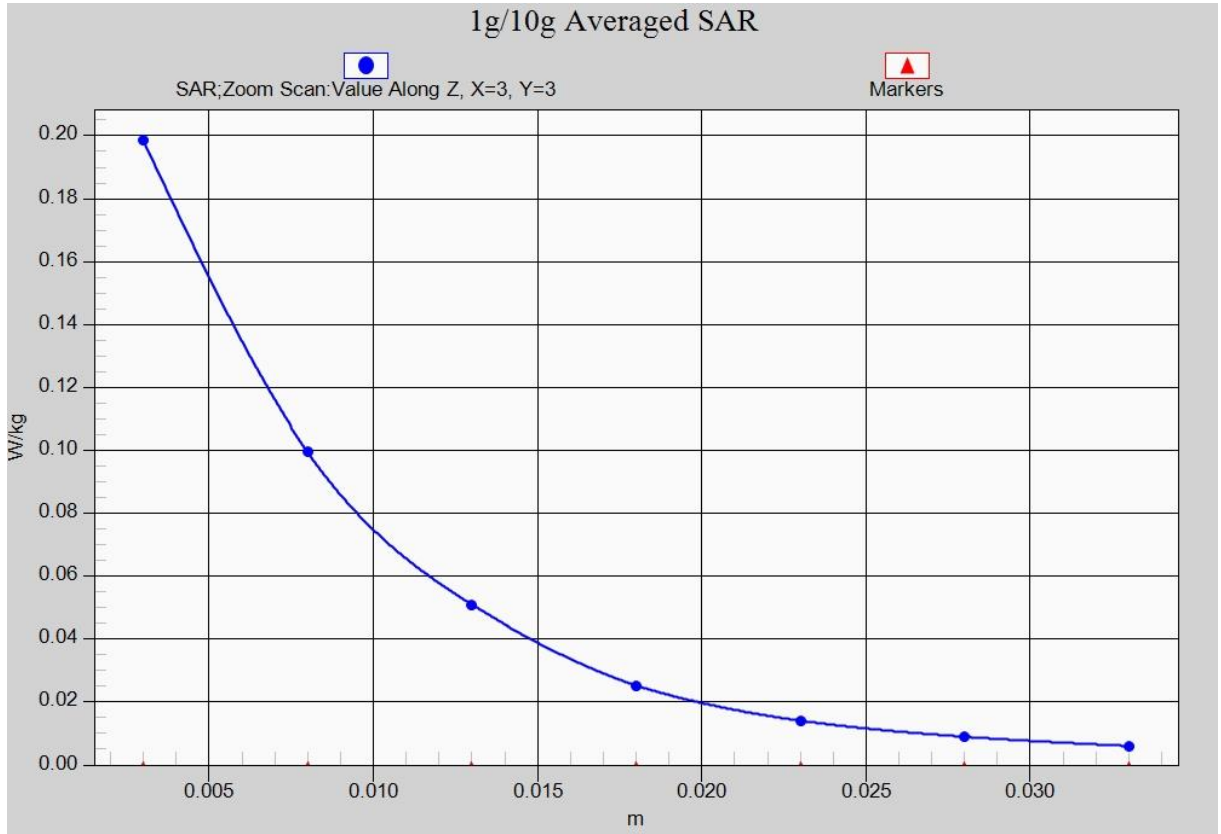
**Fig. 21-1  Z-Scan at power reference point (LTE Band 41)**

**LTE Band 41 Body Bottom with QPSK_20M_1RB_Low**

Date: 2018-5-30

Electronics: DAE4 Sn1525

Medium: Body 2600 MHz

Medium parameters use: f = 2680 MHz; σ = 2.306 mho/m; εr = 51.329; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band41 Frequency: 2680 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 - SN7464 ConvF(7.84, 7.84, 7.84)

**Area Scan (91x31x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.438 W/kg

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

Reference Value = 7.208 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.639 W/kg

**SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.163 W/kg**

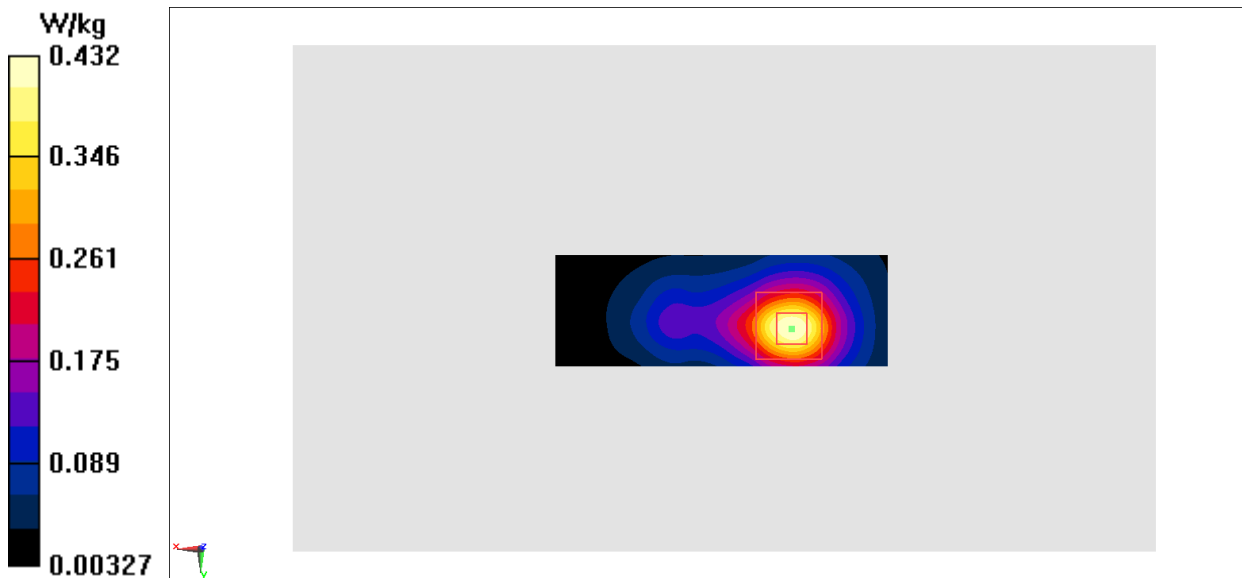Maximum value of SAR (measured) = 0.432 W/kg



**Fig.22 LTE Band 41**

**Fig. 22-1    Z-Scan at power reference point (LTE Band 41)**

**LTE Band66 Right Cheek Low with QPSK_20M_1RB_Middle**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 1750 MHz

Medium parameters used f = 1720 MHz; σ = 1.378 mho/m; εr = 40.715; ρ = 1000 kg/m$^3$

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

Communication System: LTE Band66 Frequency: 1720 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) = 0.266 W/kg


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

Reference Value = 5.709 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.320 W/kg

**SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.134 W/kg**

Maximum value of SAR (measured) = 0.252 W/kg
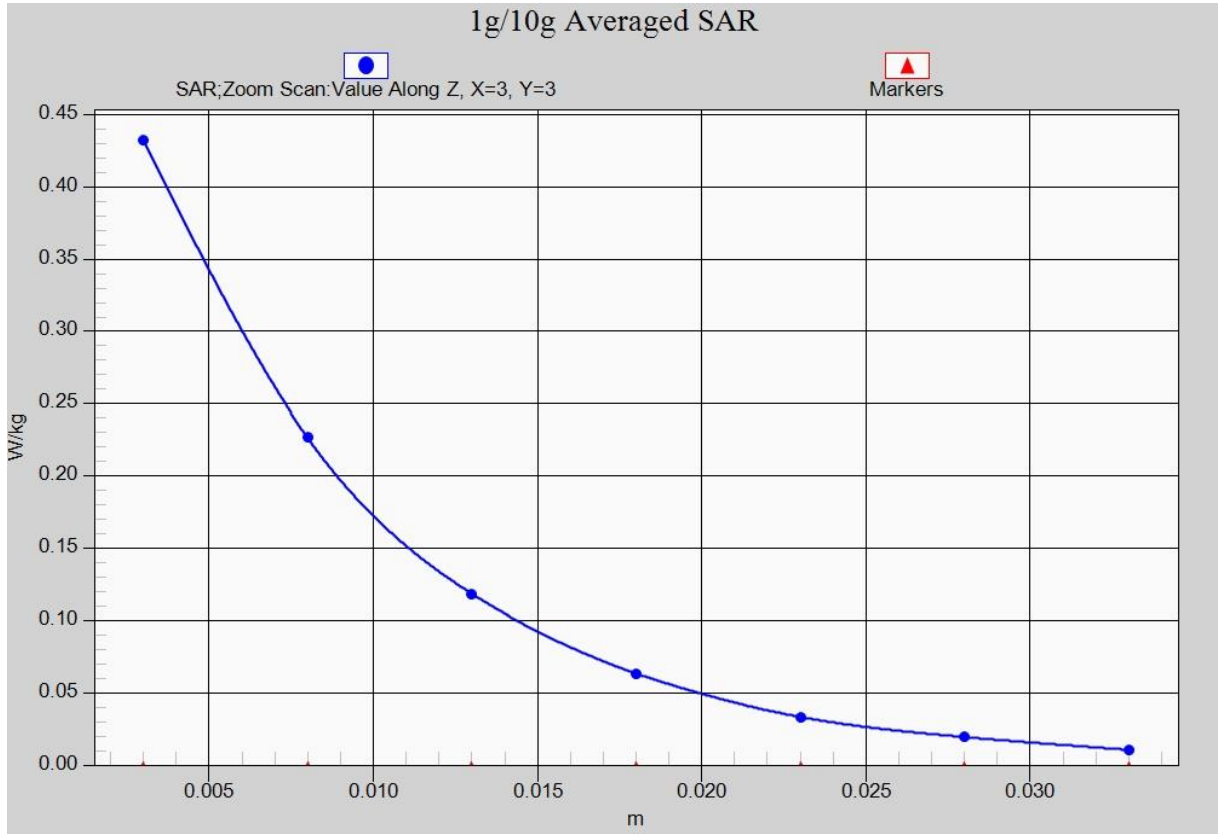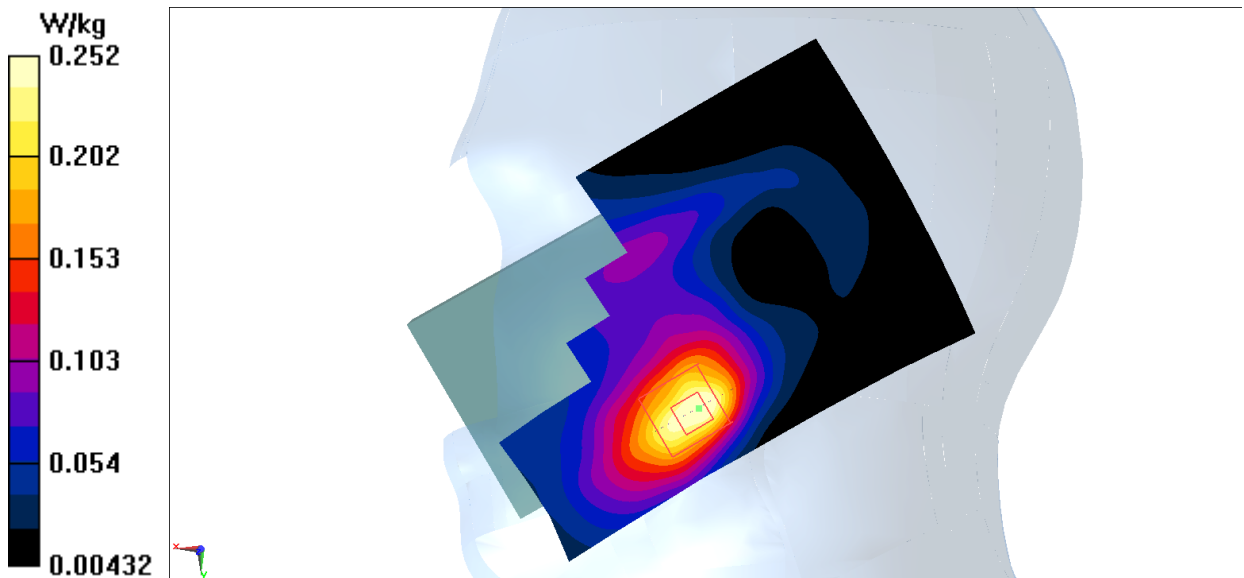


**Fig.23 LTE Band66**
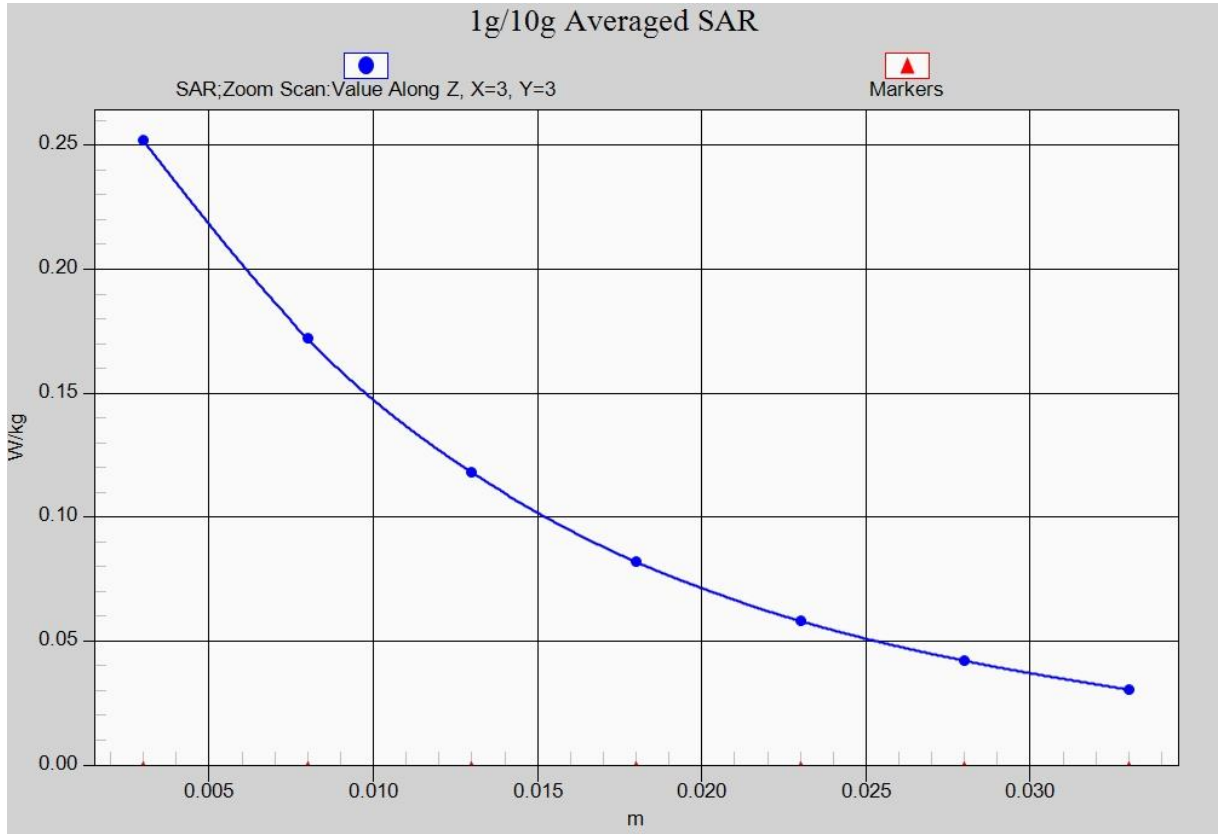
Fig. 23-1    Z-Scan at power reference point (LTE Band66)

**LTE Band66 Body Rear Low with QPSK_20M_1RB_Middle**

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body 1750 MHz

Medium parameters used: f = 1720 MHz; σ =1.524 mho/m; εr = 53.504; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC

Communication System: LTE Band66 Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.60, 8.60, 8.60)


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

Maximum value of SAR (interpolated) = 1.19 W/kg


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

Reference Value = 8.629 V/m; Power Drift = −0.10 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.926 W/kg; SAR(10 g) = 0.496 W/kg

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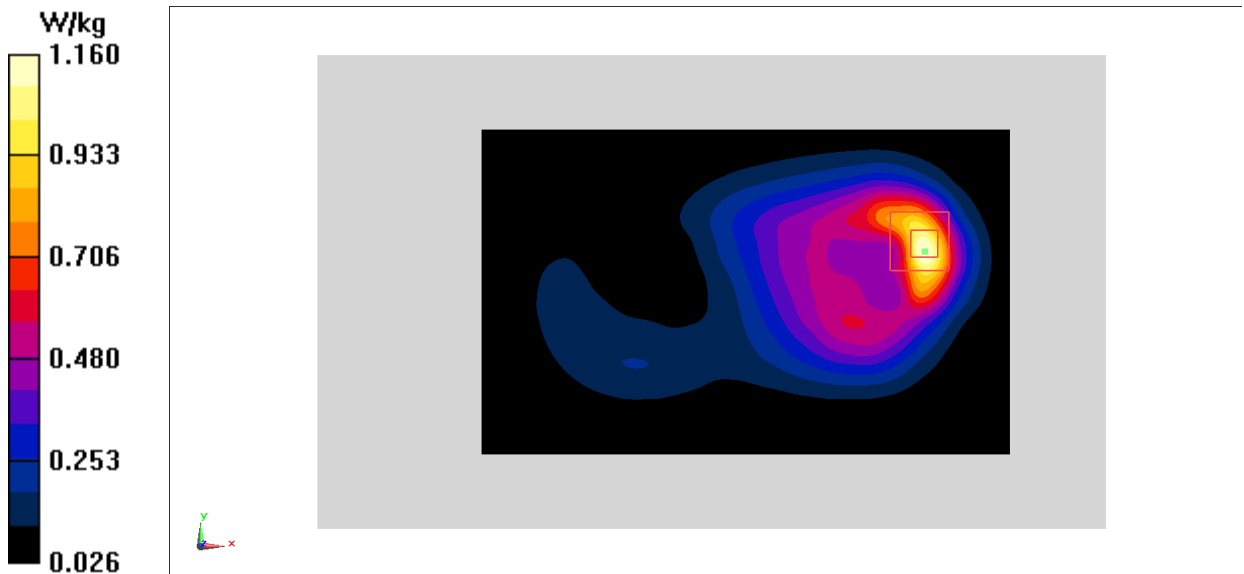


**Fig.24 LTE Band66**

**Fig. 24-1    Z-Scan at power reference point (LTE Band66)**

**Wifi 802.11b Left Tilt Channel 1**

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Head 2450 MHz

Medium parameters used (interpolated): f = 2412 MHz; σ = 1.794 mho/m; $\varepsilon_r$ = 38.85; ρ = 1000 kg/m$^3$

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

Communication System: WLan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4– SN7464 ConvF(7.89, 7.89, 7.89)


Area Scan (91x151x1): 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 = 15.88 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.341 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



**Fig.25 2450 MHz**
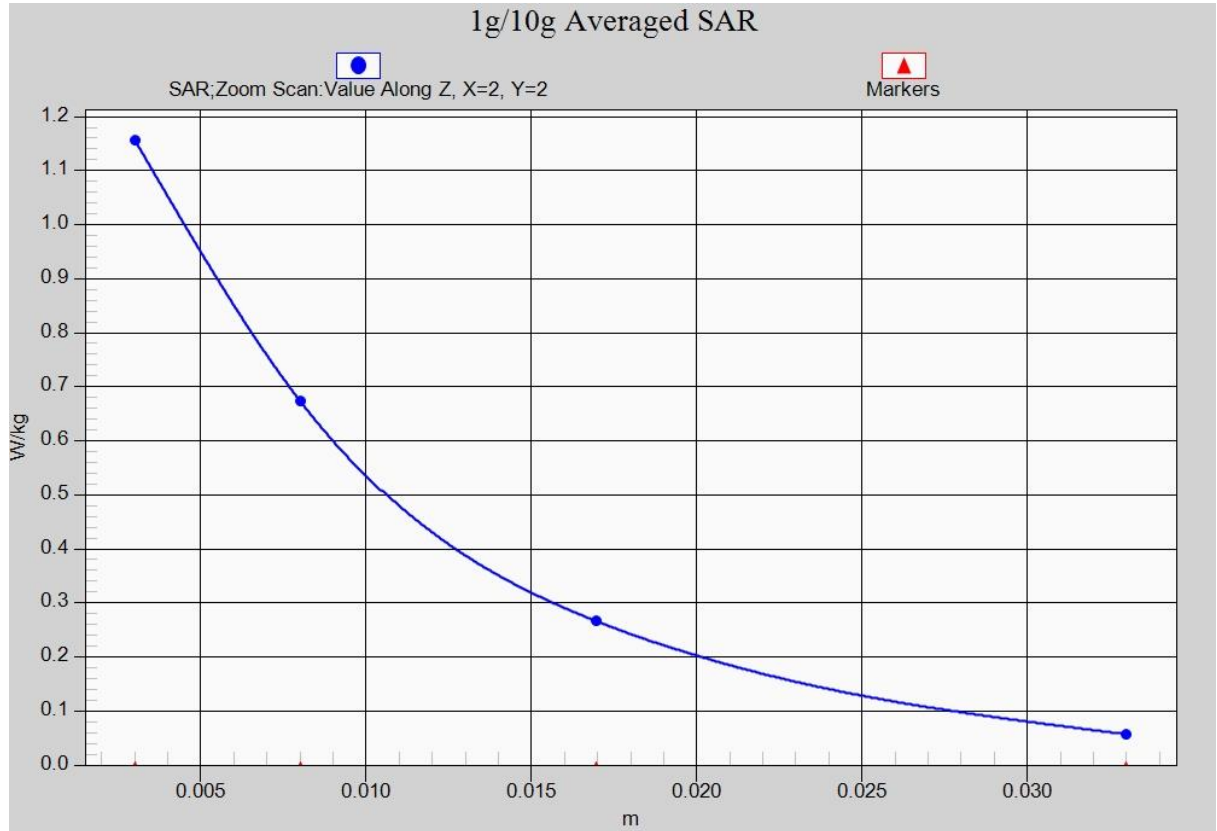
**Fig. 25-1   Z-Scan at power reference point (2450 MHz)**

## Wifi 802.11b Body Top Edge Channel 1

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Body 2450 MHz

Medium parameters used (interpolated): f = 2412 MHz; σ = 1.918 mho/m; $\varepsilon_r$ = 52.29; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

Communication System: WLan 2450 Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.09, 8.09, 8.09)


Area Scan (151x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.681 W/kg


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

Reference Value = 9.607 V/m; Power Drift = −0.06 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.230 W/kg
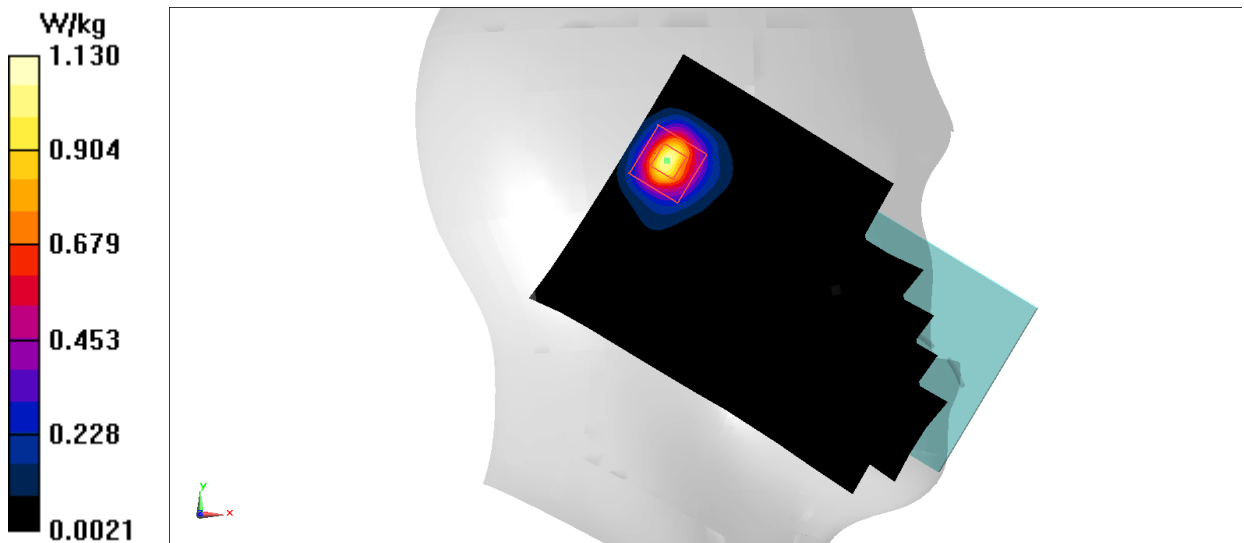
Maximum value of SAR (measured) = 0.636 W/kg
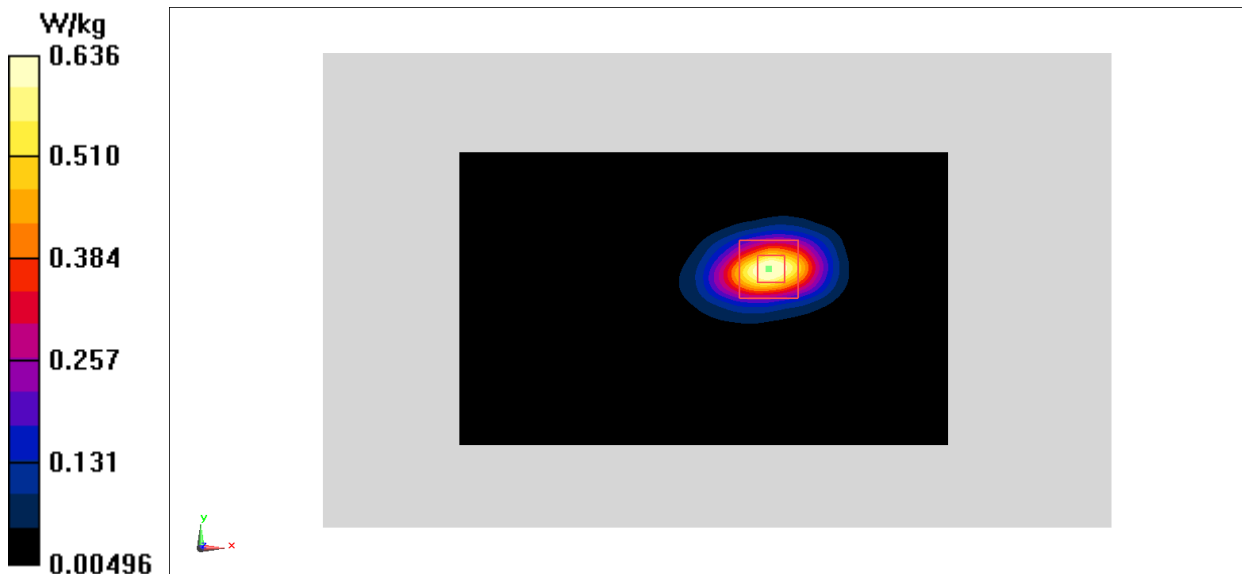


**Fig.26 2450 MHz**
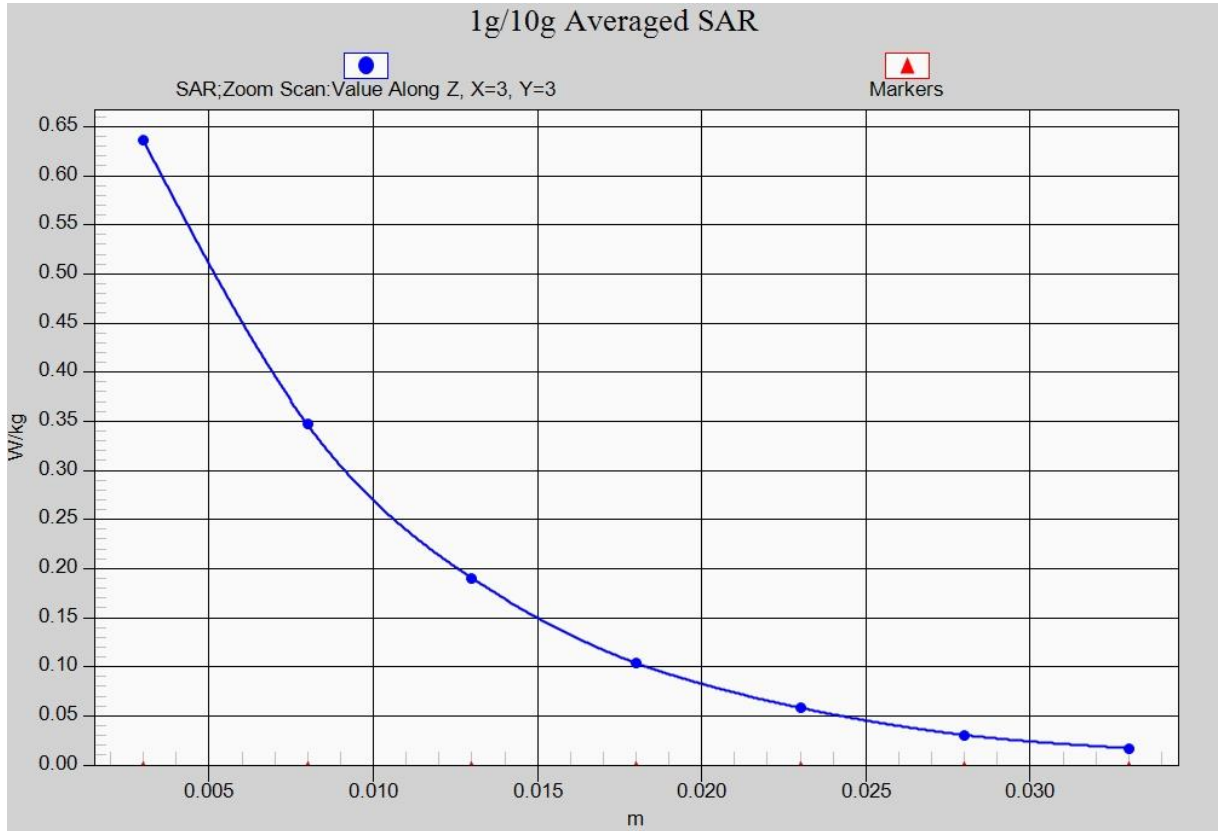
**Fig. 26-1 Z-Scan at power reference point (2450 MHz)**

## Wifi 802.11a Right Cheek Channel 56

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Head 5 GHz

Medium parameters used: f = 5280 MHz; σ = 4.729 mho/m; $\varepsilon_r$ = 36.9; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC

Communication System: WLan 5G Frequency: 5280 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(5.53, 5.53, 5.53)

Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.746 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 7.523 V/m; Power Drift = −0.06 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.153 W/kg

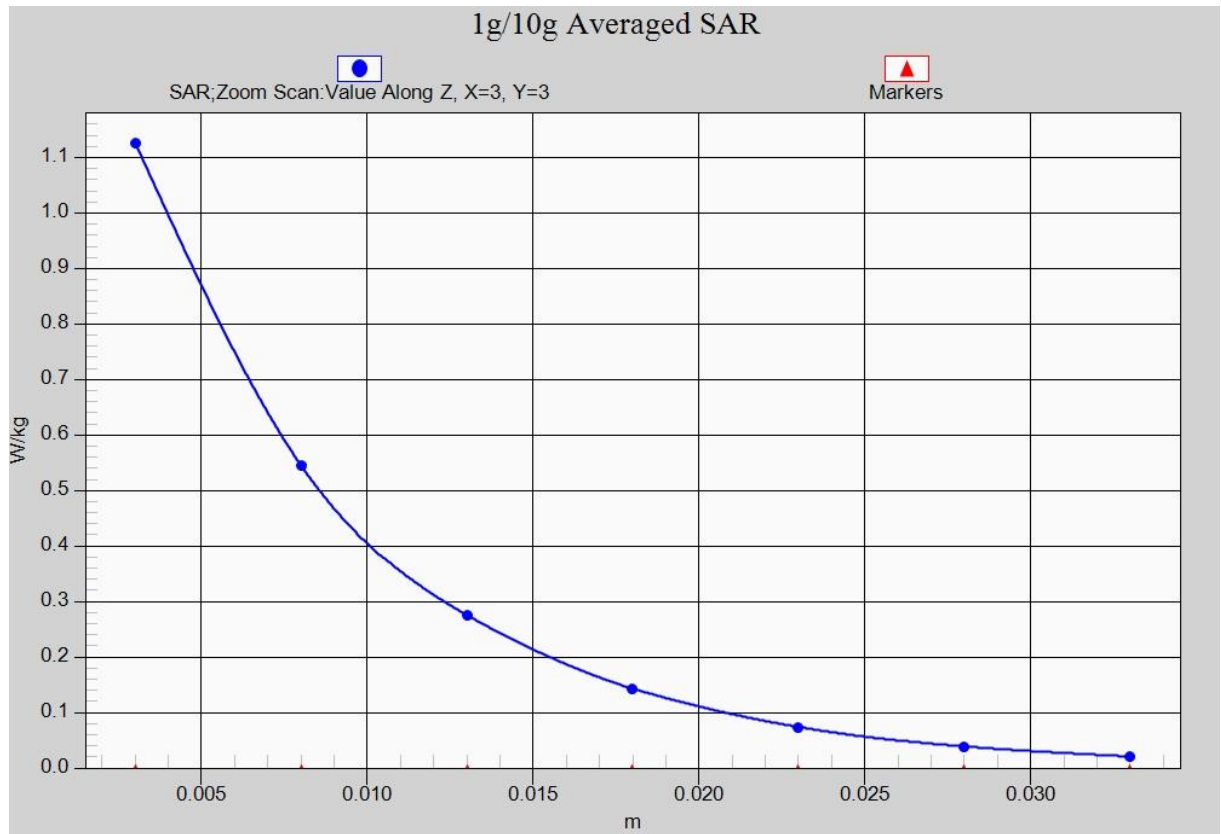Maximum value of SAR (measured) = 1.27 W/kg
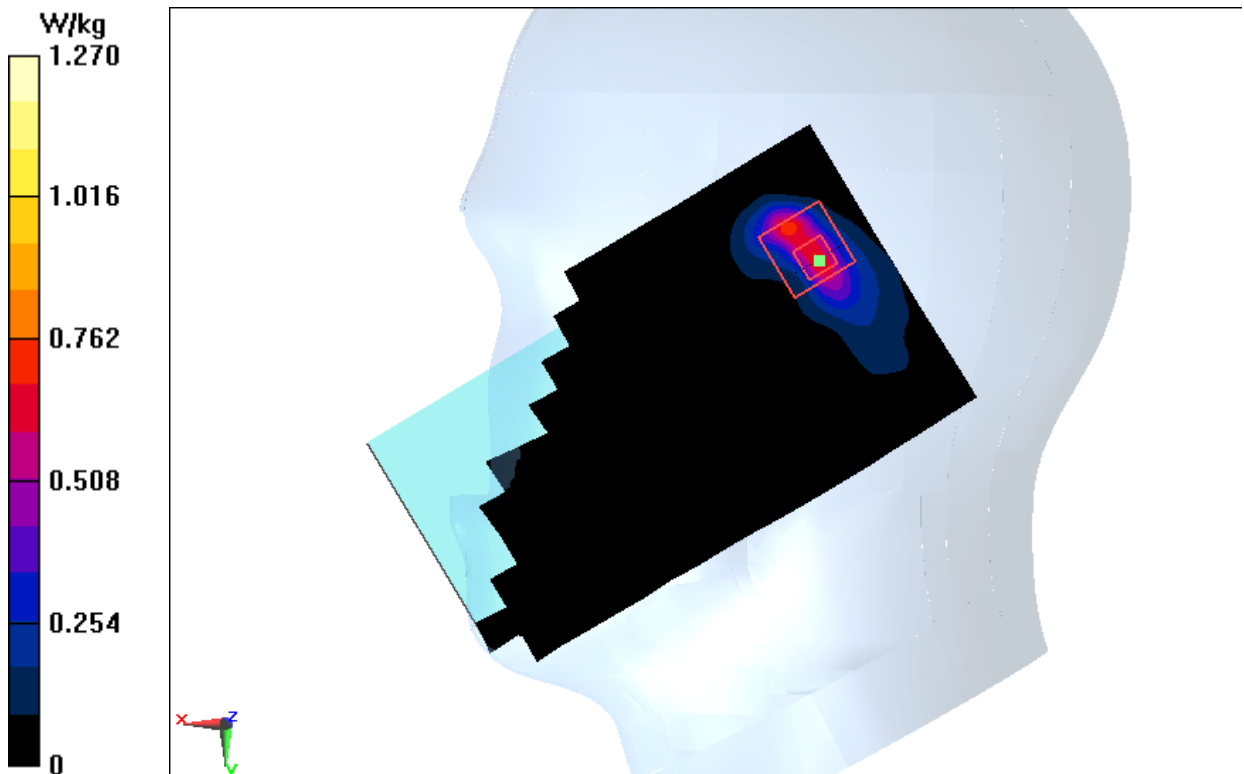


**Fig.27 5GHz**
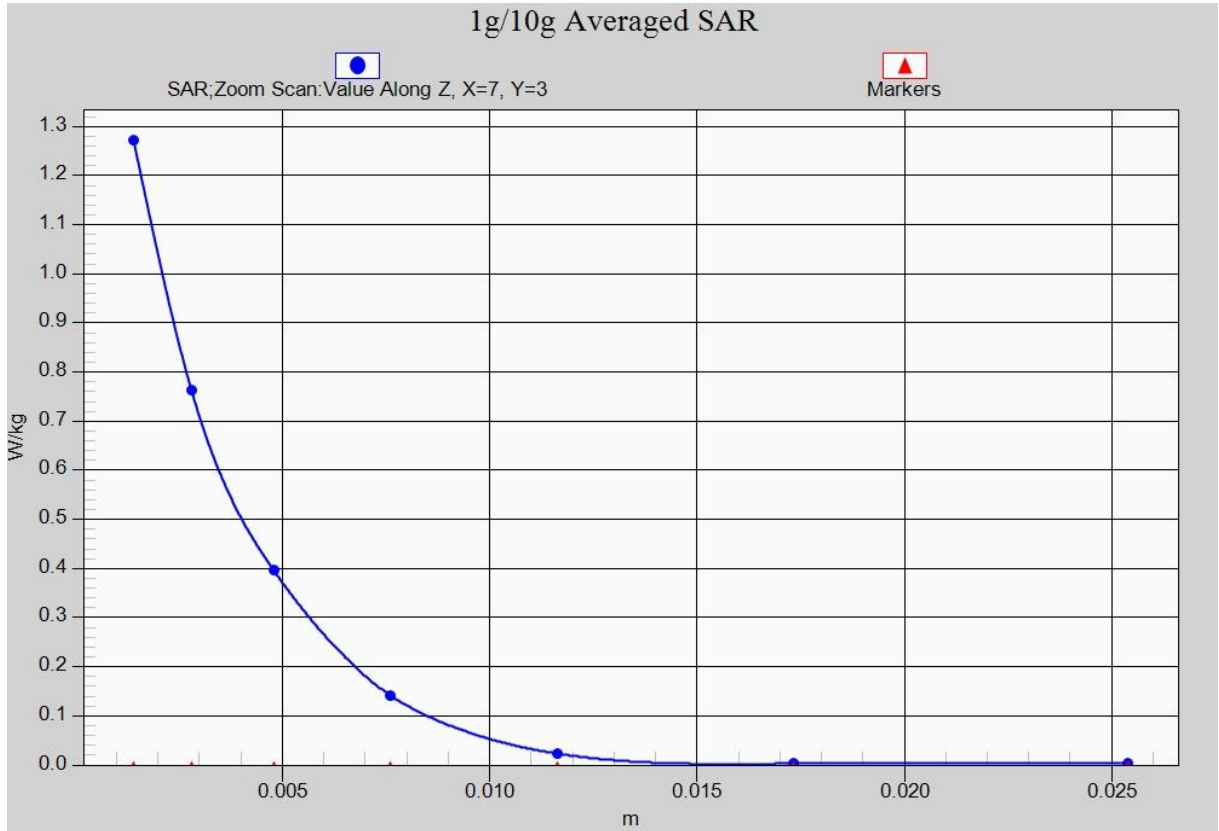
**Fig. 27-1　Z-Scan at power reference point (5GHz)**

## Wifi 802.11a Top Edge Channel 132

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Body 5 GHz

Medium parameters used: f = 5660 MHz; σ = 5.779 mho/m; $\varepsilon_r$ = 46.89; ρ = 1000 kg/m$^3$

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

Communication System: WLan 5G Frequency: 5660 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(4.50, 4.50, 4.50)


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

Maximum value of SAR (interpolated) = 0.742 W/kg


Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 5.445 V/m; Power Drift = −0.05 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 1.07 W/kg
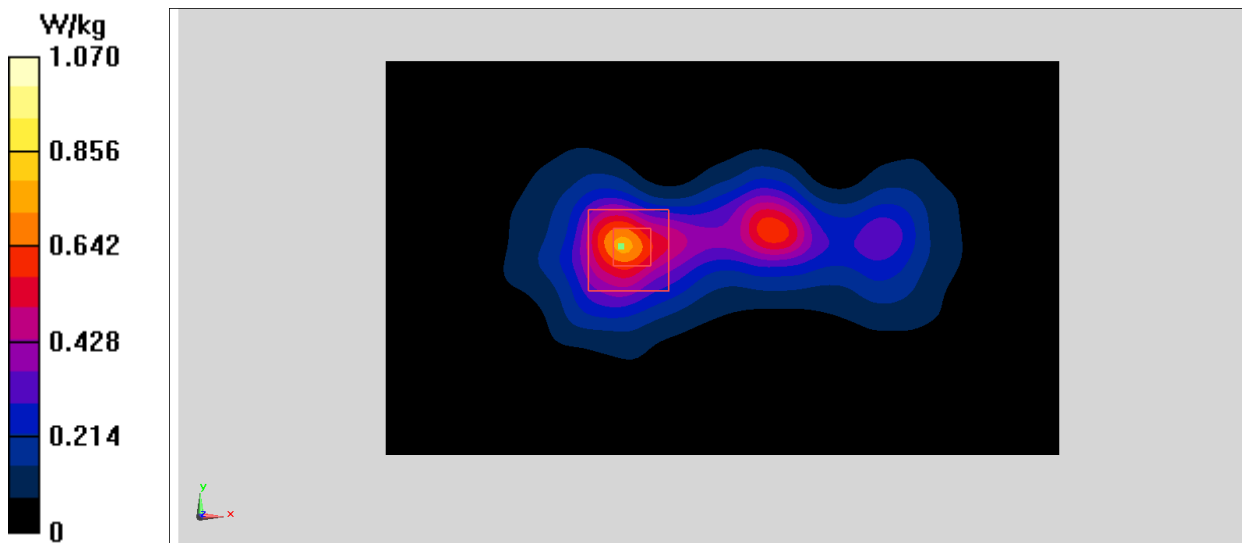


**Fig.28 5GHz**
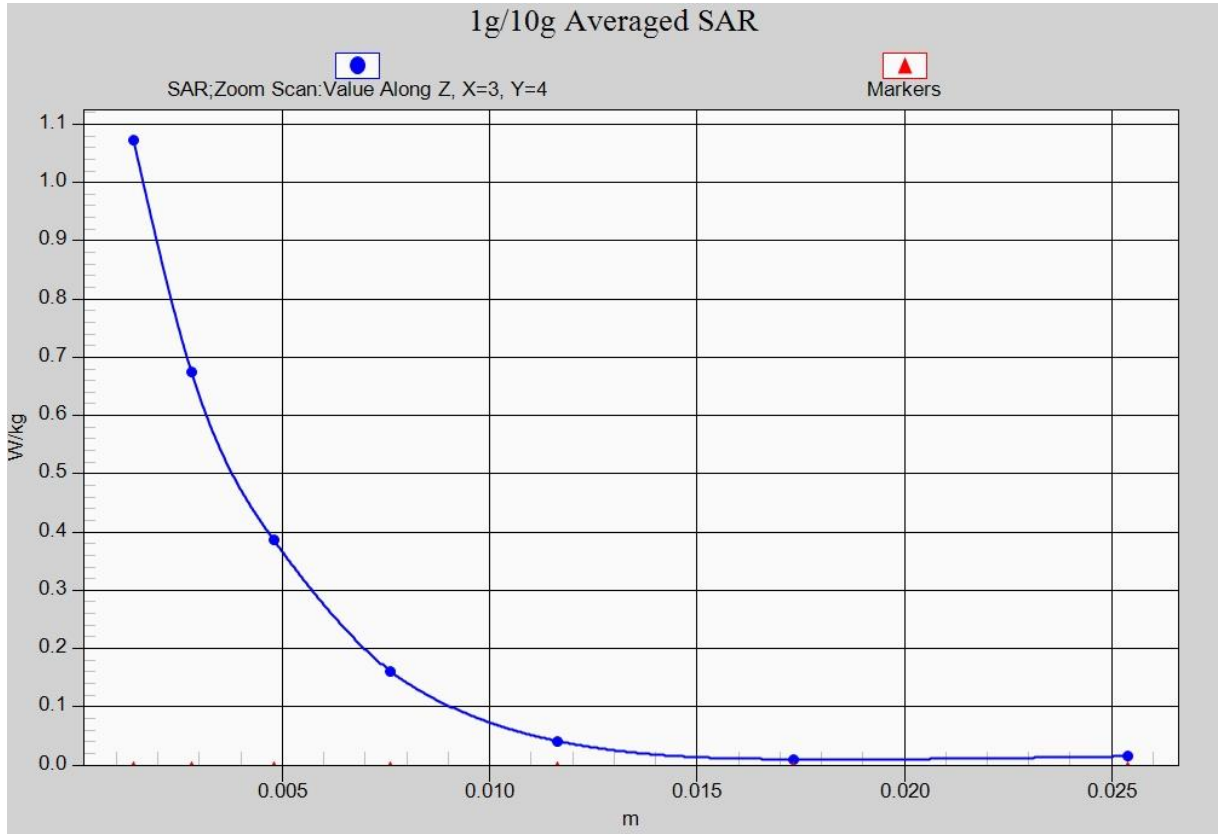
**Fig. 28-1    Z-Scan at power reference point (5GHz)**

## ANNEX B    System Verification Results

### 750MHz

Date: 2018-5-29
Electronics: DAE4 Sn1525
Medium: Head 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.874 mho/m; $\varepsilon_r$ = 42.51; ρ = 1000 kg/m³
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.57, 10.57, 10.57)

**System Validation /Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 50.02 V/m; Power Drift = 0.04 dB
**Fast SAR: SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.41 W/kg**
Maximum value of SAR (interpolated) = 2.28 W/kg

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

Reference Value = 50.02 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.92 W/kg
**SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.39 W/kg**
Maximum value of SAR (measured) = 2.25 W/kg
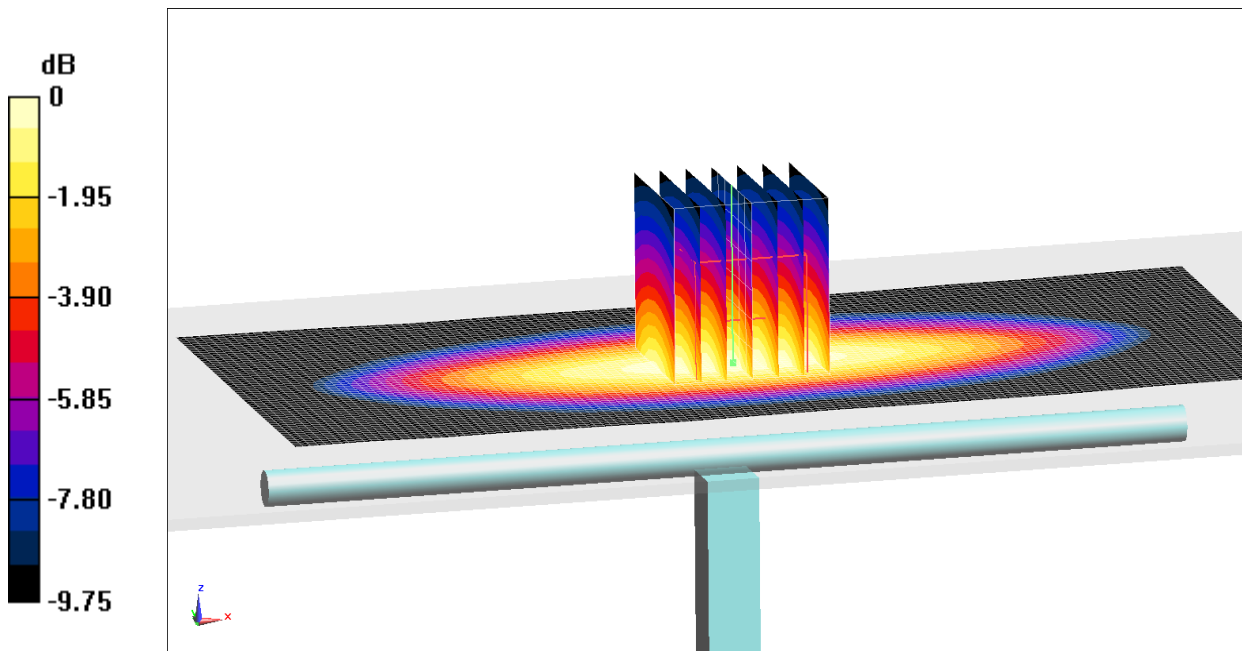


0 dB = 2.25 W/kg = 3.52 dB W/kg

**Fig.B.1 validation 750MHz 250mW**

## 750MHz

Date: 2018-5-29
Electronics: DAE4 Sn1525
Medium: Body750 MHz
Medium parameters used: f = 750 MHz; $\sigma$ = 0.955 mho/m; $\varepsilon_r$ = 56.53; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C         Liquid Temperature: 22.5°C
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.63, 10.63, 10.63)

**System Validation/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 51.01 V/m; Power Drift = -0.03 dB
**Fast SAR: SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.45 W/kg**
Maximum value of SAR (interpolated) = 2.47 W/kg

**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.01 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.01 W/kg
**SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.47 W/kg**
Maximum value of SAR (measured) = 2.49 W/kg
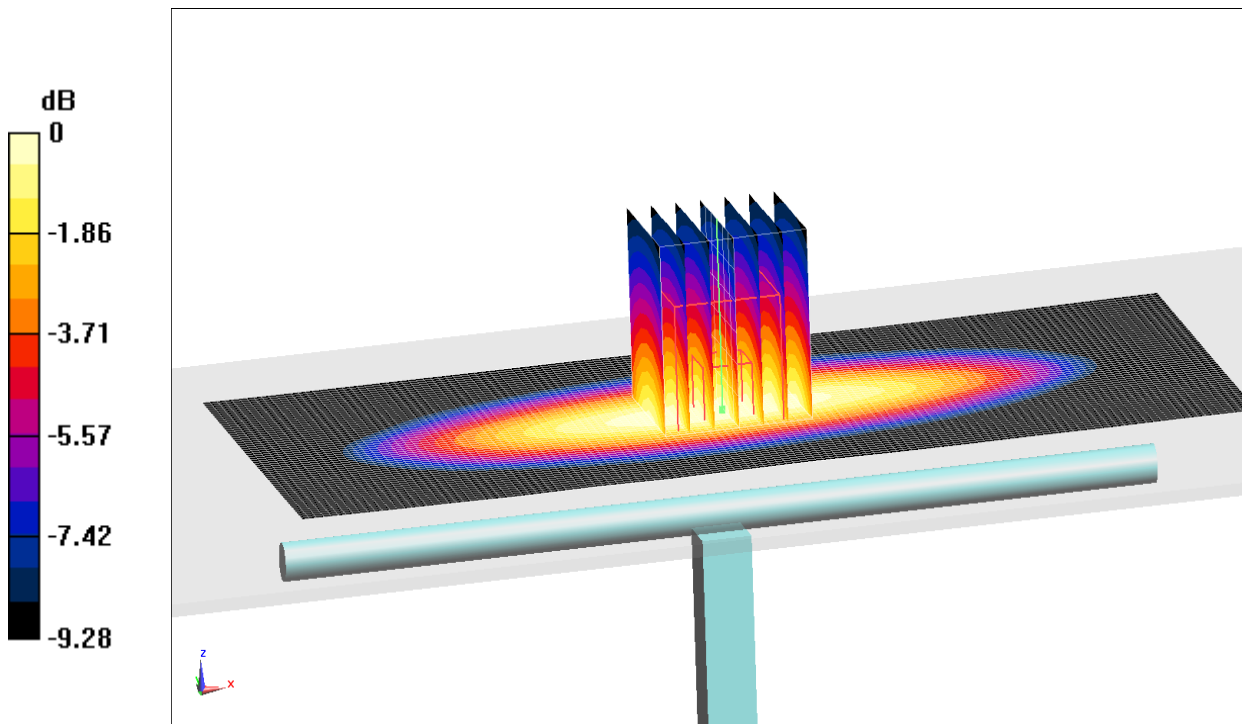


0 dB = 2.49 W/kg = 3.96 dB W/kg

**Fig.B.2 validation 750MHz 250mW**

## 835MHz

Date: 2018-5-27
Electronics: DAE4 Sn1525
Medium: Head 850 MHz
Medium parameters used: f = 835 MHz; σ = 0.897 S/m; $\varepsilon_r$ = 41.97; ρ = 1000 kg/m³
Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.28, 10.28, 10.28)

**System Validation/Area Scan (61x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 54.21 V/m; Power Drift = 0.05 dB
**Fast SAR: SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.51 W/kg**
Maximum value of SAR (interpolated) = 2.54 W/kg

**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.21 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.08 W/kg
**SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.49 W/kg**
Maximum value of SAR (measured) = 2.51 W/kg
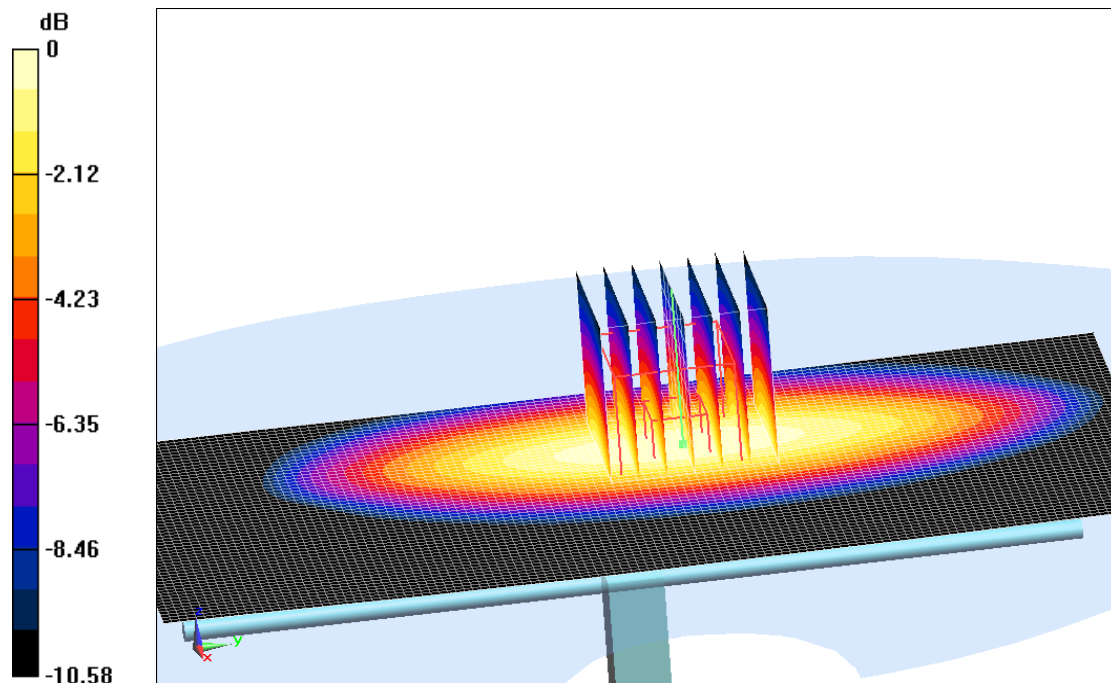


0 dB = 2.51 W/kg = 4.00 dBW/kg

**Fig.B.3 validation 835MHz 250mW**

## 835MHz

Date: 2018-5-27
Electronics: DAE4 Sn1525
Medium: Body 850 MHz
Medium parameters used: f = 835 MHz; σ = 0.988 S/m; $\varepsilon_r$ = 55.8; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C          Liquid Temperature: 22.5°C
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.21, 10.21, 10.21)

**System Validation /Area Scan (61x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 52.53 V/m; Power Drift = 0.02 dB
**Fast SAR: SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.52 W/kg**
Maximum value of SAR (interpolated) = 2.68 W/kg

**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.53 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.12 W/kg
**SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.55 W/kg**
Maximum value of SAR (measured) = 2.72 W/kg
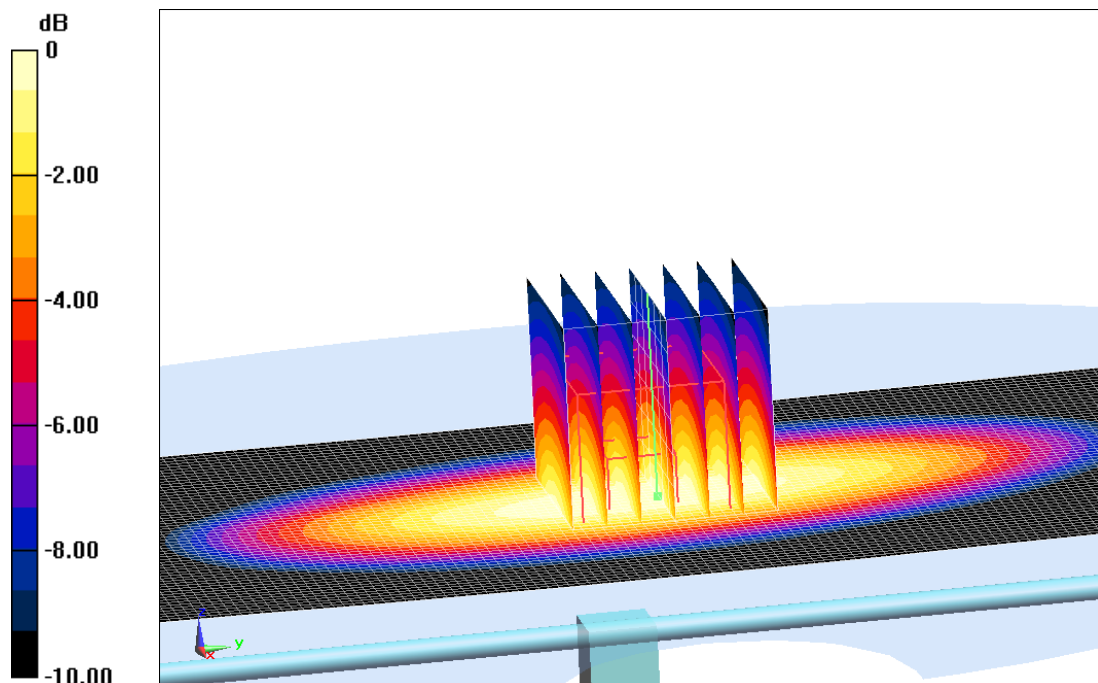


0 dB = 2.72 W/kg = 4.35 dBW/kg

**Fig.B.4 validation 835MHz 250mW**

## 1750MHz

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 1750 MHz

Medium parameters used: f=1750 MHz; σ = 1.401 mho/m; εr = 40.64; ρ = 1000 kg/m³

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

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.70, 8.70, 8.70)


**System Validation/Area Scan (81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 90.25 V/m; Power Drift = −0.06 dB

**Fast SAR: SAR(1 g) = 9.15 W/kg; SAR(10 g) = 4.83 W/kg**

Maximum value of SAR (interpolated) = 10.1 W/kg


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

Reference Value = 90.25 V/m; Power Drift = −0.06 dB

Peak SAR (extrapolated) = 15.66 W/kg

**SAR(1 g) = 9.24 W/kg; SAR(10 g) = 4.91 W/kg**

Maximum value of SAR (measured) = 10.2 W/kg
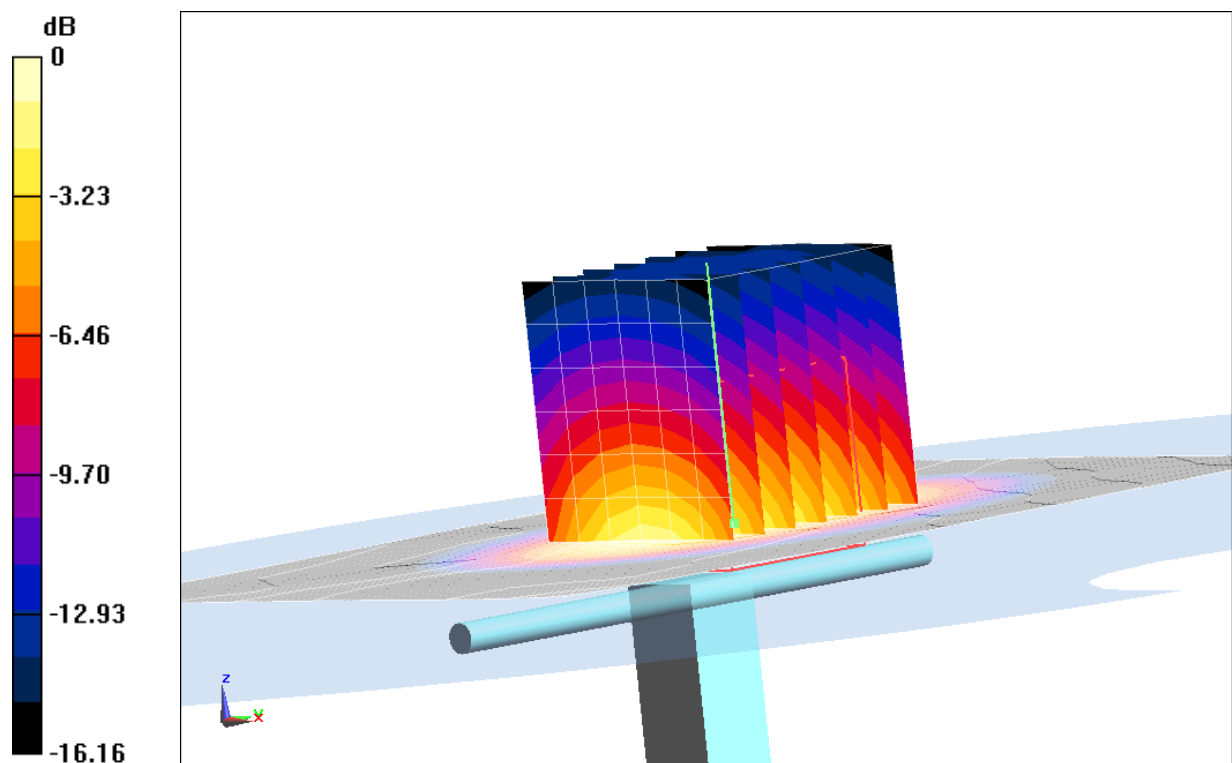


0 dB = 10.2 W/kg = 10.09 dB W/kg


**Fig.B.5 validation 1750MHz 250mW**

## 1750MHz

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Body 1750 MHz

Medium parameters used: f=1750 MHz; σ = 1.528 mho/m; εr = 53.51; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.60, 8.60, 8.60)


**System Validation/Area Scan (81x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 92.68 V/m; Power Drift = 0.03 dB

**Fast SAR: SAR(1 g) = 9.27 W/kg; SAR(10 g) = 4.97 W/kg**

Maximum value of SAR (interpolated) = 10.2 W/kg


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

Reference Value = 92.68 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 15.28 W/kg

**SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.89 W/kg**

Maximum value of SAR (measured) = 10.1 W/kg
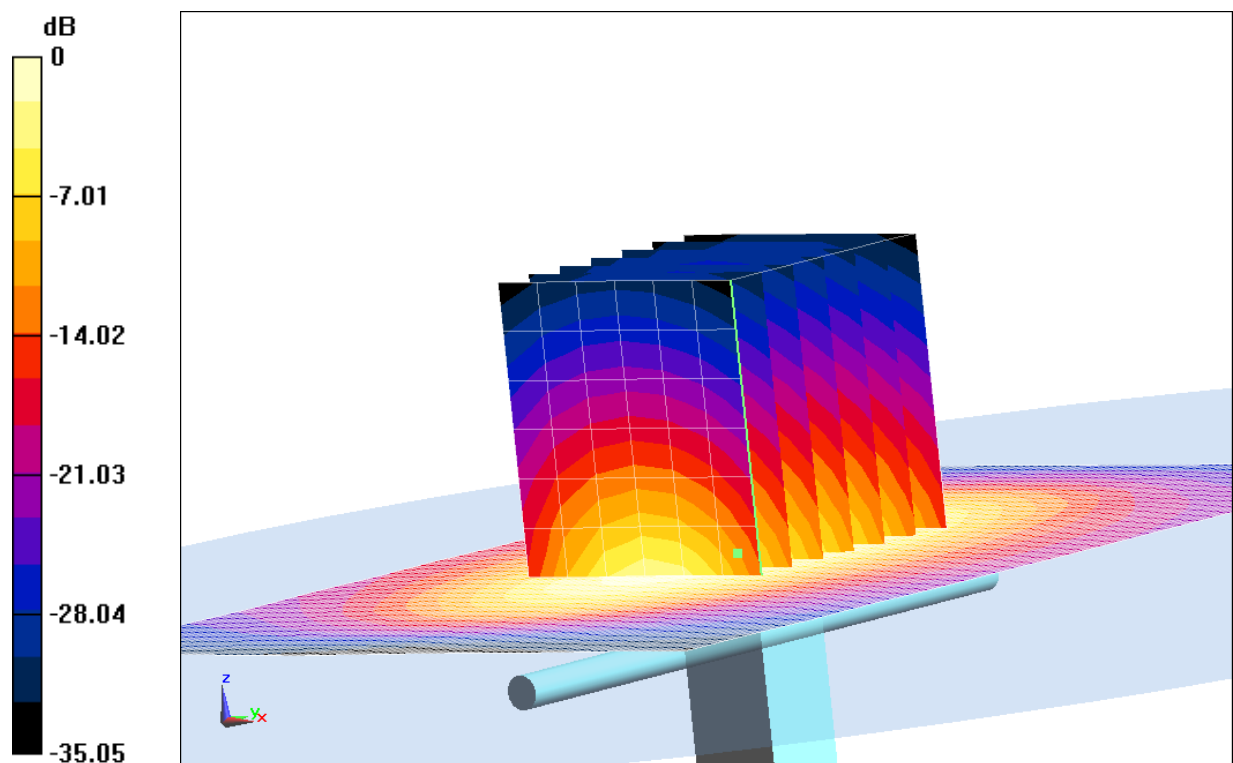


0 dB = 10.1 W/kg = 10.04 dB W/kg

**Fig.B.6 validation 1750MHz 250mW**

## 1900MHz

Date: 2018-5-28
Electronics: DAE4 Sn1525
Medium: Head 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.432 mho/m; $\varepsilon_r$ = 40.81; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF (8.39, 8.39, 8.39)

**System Validation /Area Scan(61x81x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 91.02 V/m; Power Drift = -0.05 dB
**SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.39 W/kg**
Maximum value of SAR (interpolated) = 12.4 W/kg

**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.02 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 17.91 W/kg
**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.3 W/kg**
Maximum value of SAR (measured) = 12.3 W/kg
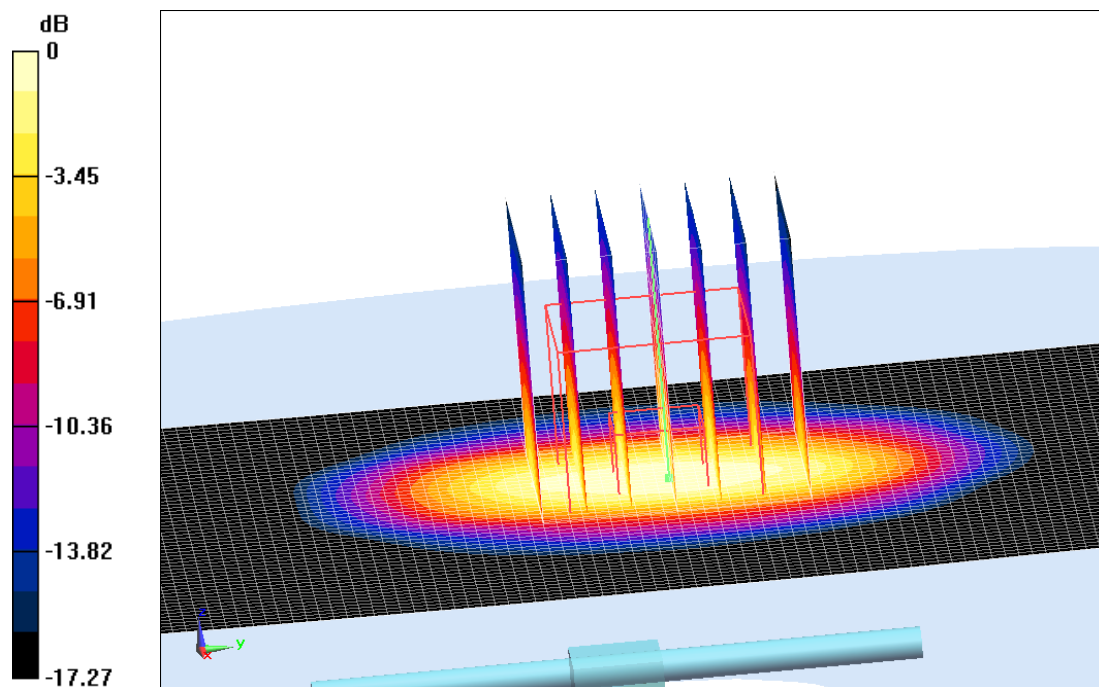


0 dB = 12.3 W/kg = 10.90 dBW/kg

**Fig.B.7 validation 1900MHz 250mW**

## 1900MHz

Date: 2018-5-28
Electronics: DAE4 Sn1525
Medium: Body 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.548 S/m; $\varepsilon_r$ = 52.94; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.32, 8.32, 8.32)

**System Validation/Area Scan (81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 93.51 V/m; Power Drift = -0.04 dB
**Fast SAR: SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.52 W/kg**
Maximum value of SAR (interpolated) = 12.4 W/kg

**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 93.51 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 18.89 W/kg
**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.43 W/kg**
Maximum value of SAR (measured) = 12.3 W/kg
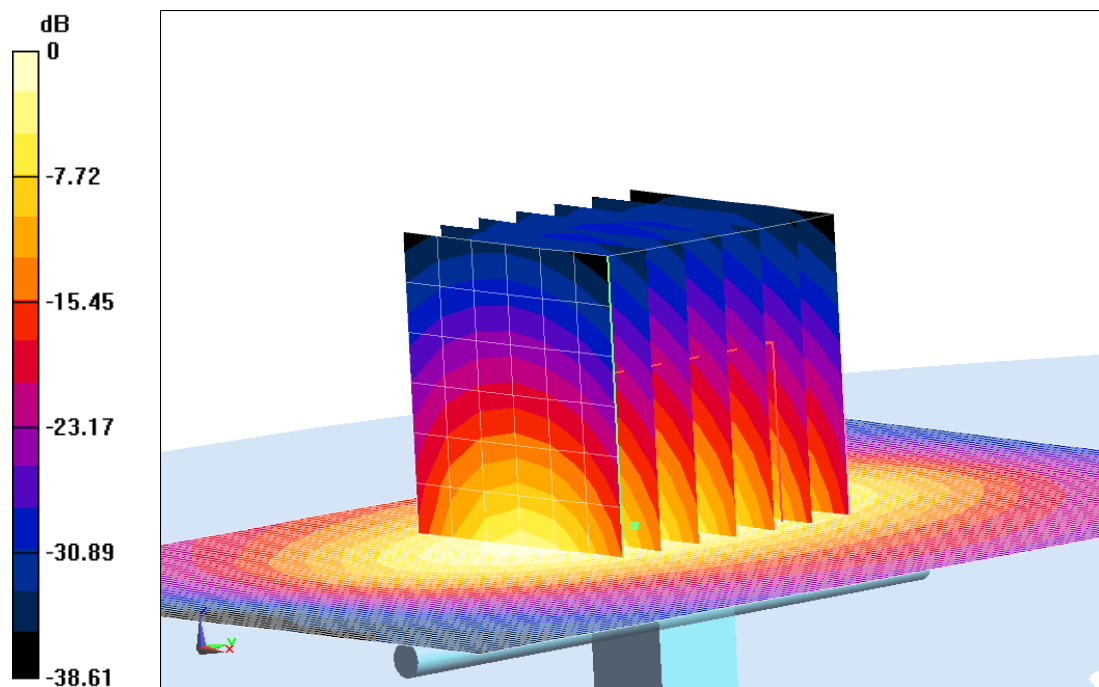


0 dB = 12.3 W/kg = 10.90 dB W/kg

**Fig.B.8 validation 1900MHz 250mW**

## 2450MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Head 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.834 mho/m; $\varepsilon_r$ = 38.7; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.89, 7.89, 7.89)

**System Validation /Area Scan (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 86.2 V/m; Power Drift = 0.01 dB
**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.22 W/kg**
Maximum value of SAR (interpolated) = 16.3 W/kg

**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.2 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 26.97 W/kg
**SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.05 W/kg**
Maximum value of SAR (measured) = 16.1 W/kg
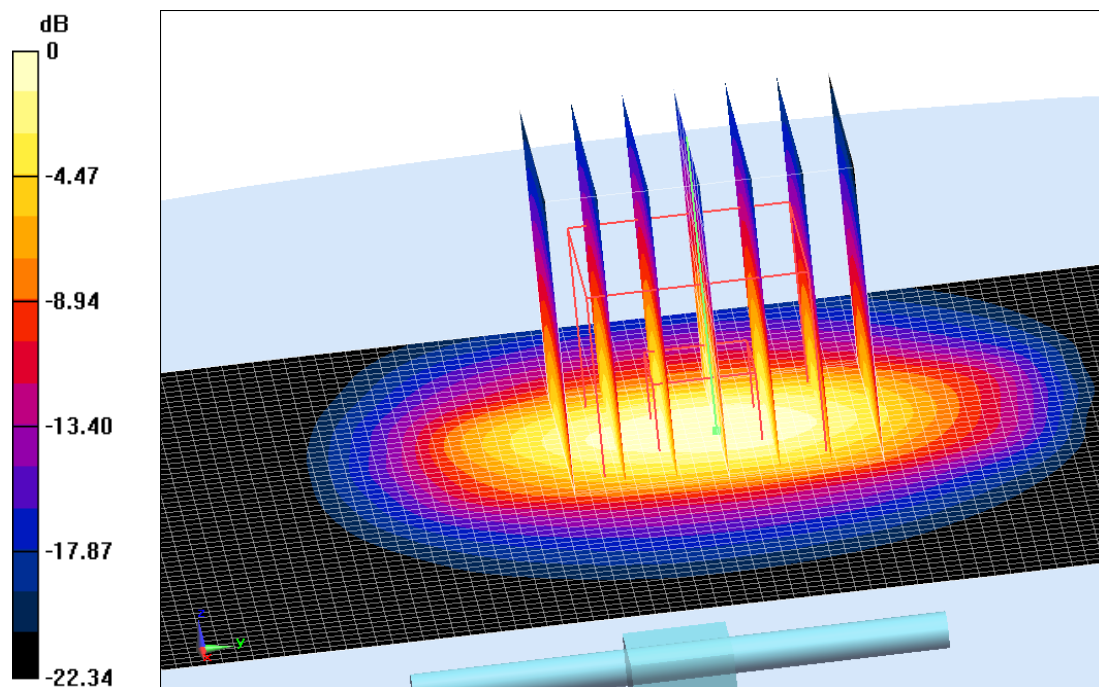


0 dB = 16.1 W/kg = 12.07 dBW/kg

**Fig.B.9 validation 2450MHz 250mW**

## 2450MHz

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Body 2450 MHz

Medium parameters used: f = 2450 MHz; σ = 1.962 S/m; $\varepsilon_r$ = 52.18; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.09, 8.09, 8.09)

**System Validation/Area Scan (81x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 88.35 V/m; Power Drift = 0.02 dB

**SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.81 W/kg**

Maximum value of SAR (interpolated) = 14.2 W/kg

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

Reference Value = 88.35 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 24.41 W/kg

**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.99 W/kg**

Maximum value of SAR (measured) = 14.4 W/kg
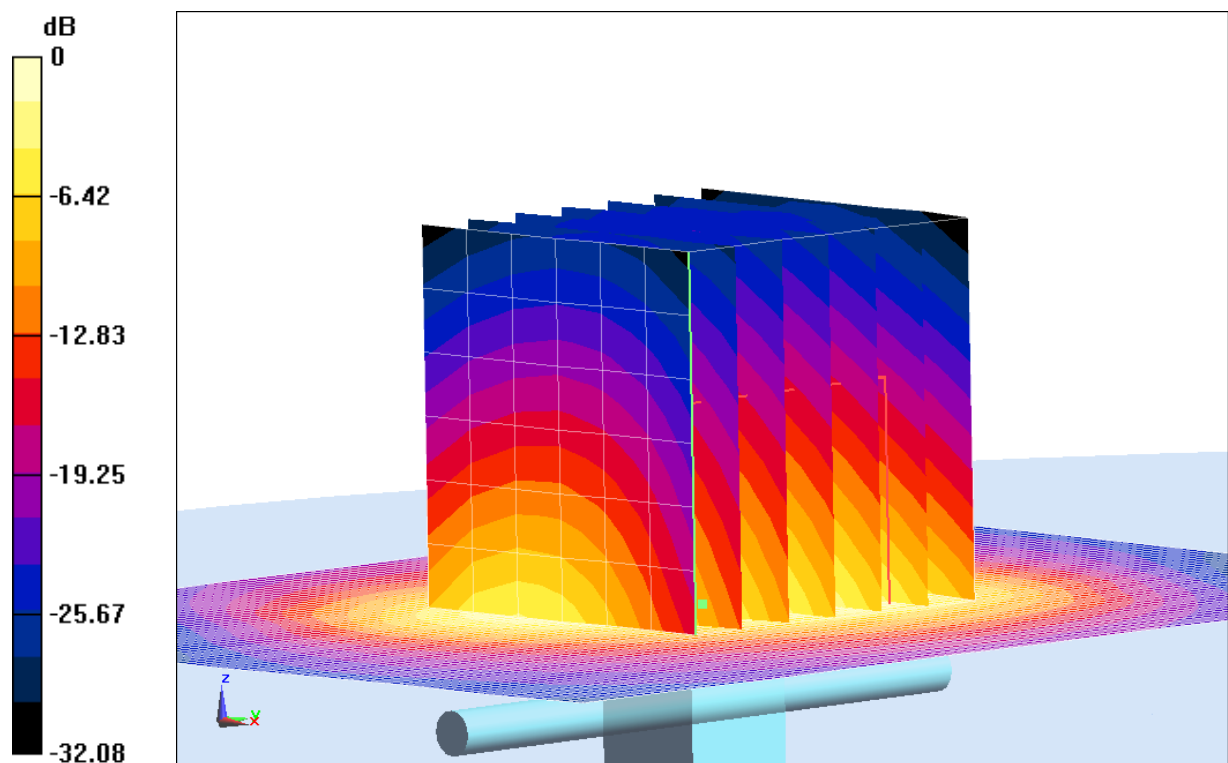


0 dB = 14.4 W/kg = 11.58 dB W/kg

**Fig.B.10 validation 2450MHz 250mW**

## 2600MHz

Date: 2018-5-30
Electronics: DAE4 Sn1525
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 1.928 mho/m; $\varepsilon_r$ = 38.27; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.76, 7.76, 7.76)

**System Validation/Area Scan(81x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 79.46 V/m; Power Drift = -0.03 dB
**SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.56 W/kg**
Maximum value of SAR (interpolated) = 22.2 W/kg

**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 79.46 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 30.86 W/kg
**SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.39 W/kg**
Maximum value of SAR (measured) = 22 W/kg
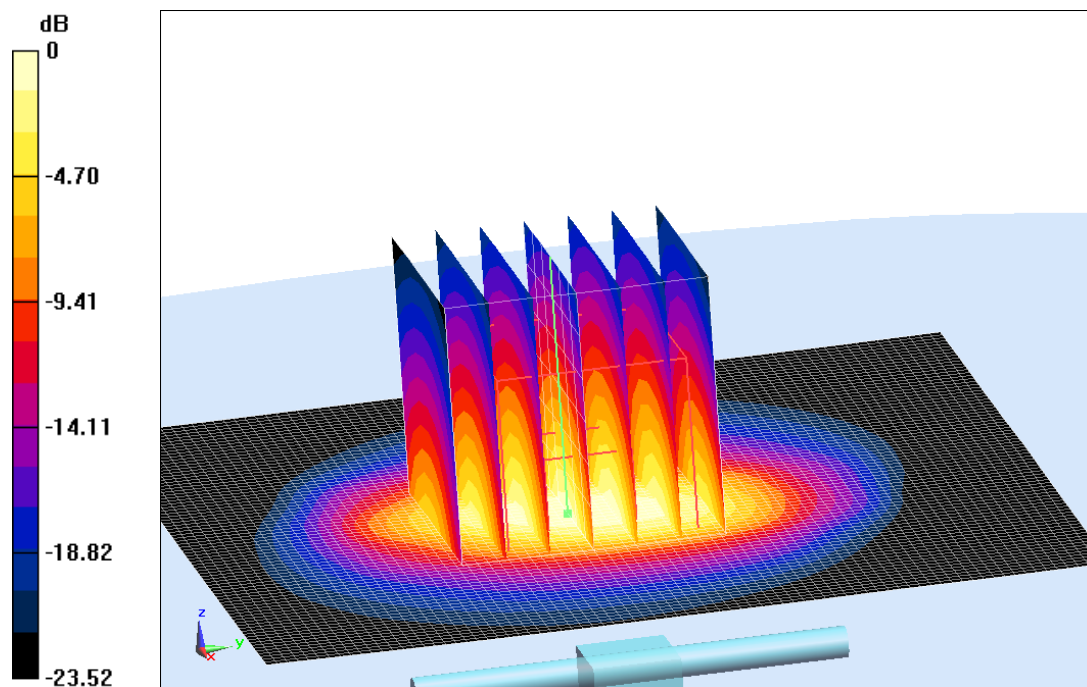


0 dB = 22 W/kg = 13.42 dBW/kg

**Fig.B.11 validation 2600MHz 250mW**

## 2600MHz

Date: 2018-5-30

Electronics: DAE4 Sn1525

Medium: Body 2600 MHz

Medium parameters used: f = 2600 MHz; σ = 2.24 mho/m; $\varepsilon_r$ = 51.6; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(7.84, 7.84, 7.84)

**System Validation /Area Scan(81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 82.21 V/m; Power Drift = -0.02 dB

**Fast SAR: SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.39 W/kg**

Maximum value of SAR (interpolated) = 22.4 W/kg

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

Reference Value = 82.21 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 31.02 W/kg

**SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.31 W/kg**

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dB W/kg

**Fig.B.12 validation 2600MHz 250mW**

## 5200MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Head 5 GHz
Medium parameters used: f = 5200 MHz; σ = 4.726 mho/m; $\varepsilon_r$ = 36.62; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 5200 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.82, 5.82, 5.82)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 17.9 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 57.41 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 31.32 W/kg
**SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.25 W/kg**
Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.58 dBW/kg

**Fig.B.13 validation 5200MHz 100mW**

## 5200MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Body 5 GHz
Medium parameters used: f = 5200 MHz; $\sigma$ = 5.402 mho/m; $\varepsilon_r$ = 49.67; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 5200 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.39, 5.39, 5.39)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
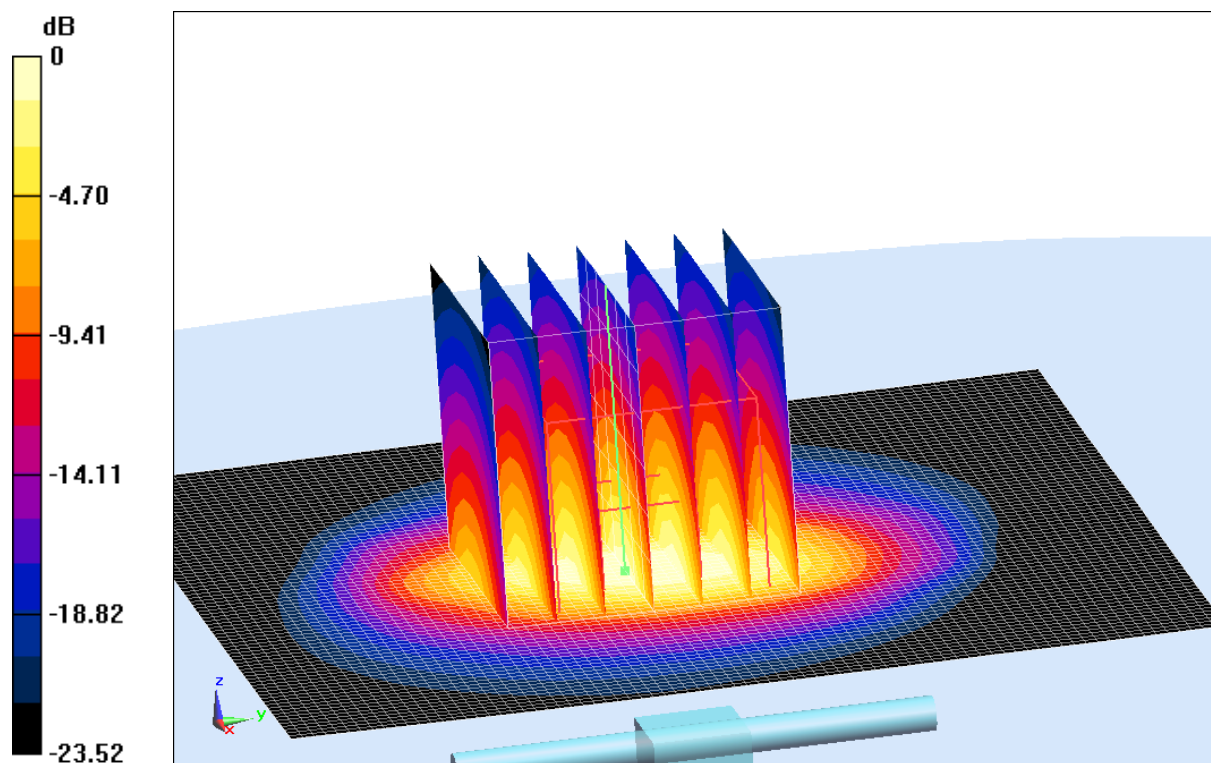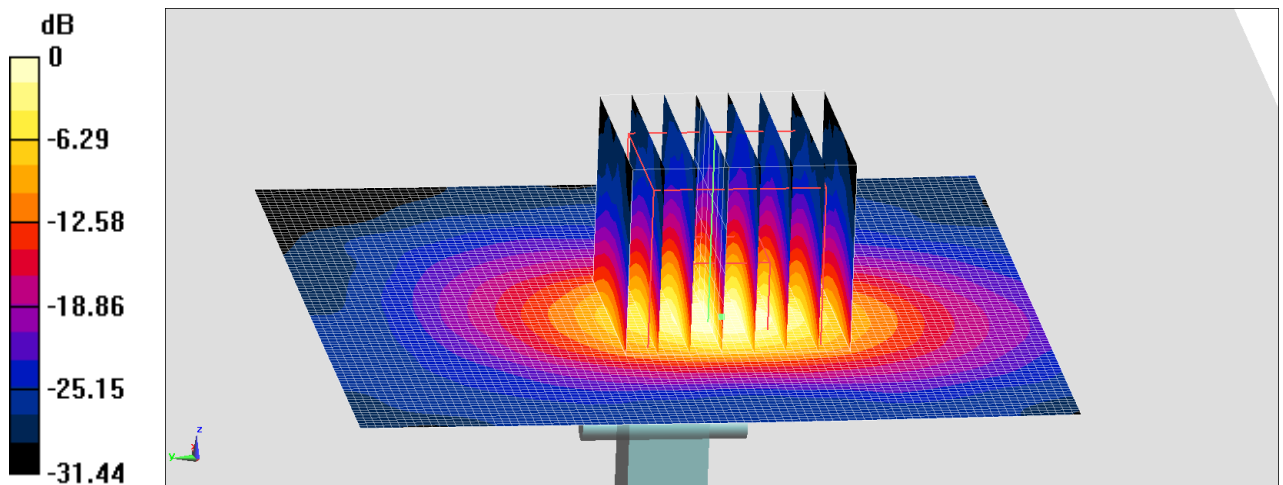Maximum value of SAR (interpolated) = 18.1 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 53.28 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 29.59 W/kg
**SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.05 W/kg**
Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

**Fig.B.14 validation 5200MHz 100mW**

## 5300MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Head 5 GHz
Medium parameters used: f = 5300 MHz; σ = 4.828 mho/m; $\varepsilon_r$ = 36.9; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 5300 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.53, 5.53, 5.53)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
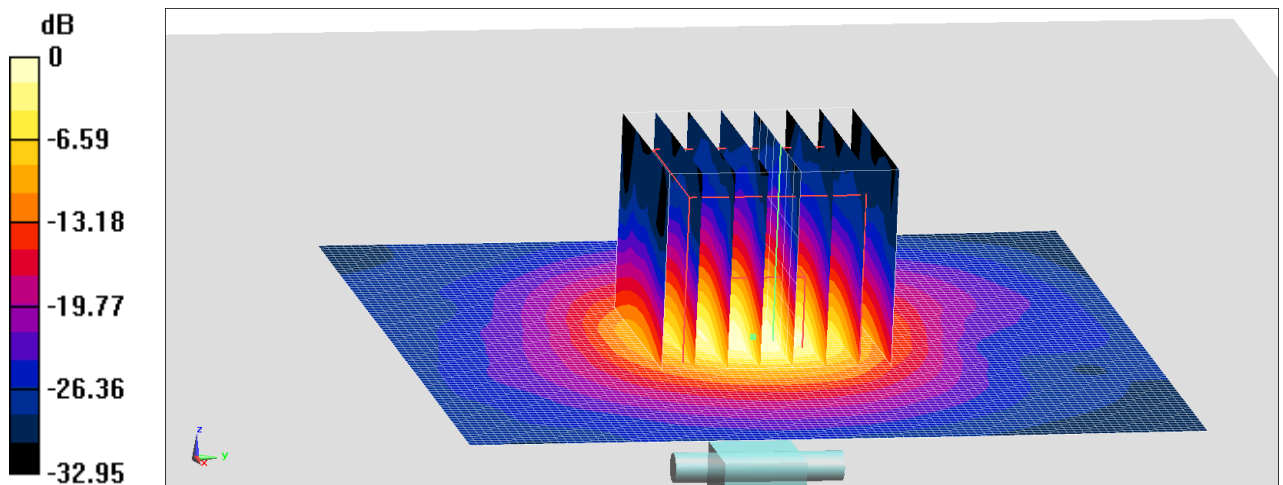Maximum value of SAR (interpolated) = 19.3 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 73.64 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 35.42 W/kg
**SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.36 W/kg**
Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

**Fig.B.15 validation 5300MHz 100mW**

## 5300MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Body 5 GHz
Medium parameters used: f = 5300 MHz; $\sigma$ = 5.311 mho/m; $\varepsilon_r$ = 47.7; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.9$^o$C        Liquid Temperature: 22.5$^o$C
Communication System: CW Frequency: 5300 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.11, 5.11, 5.11)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
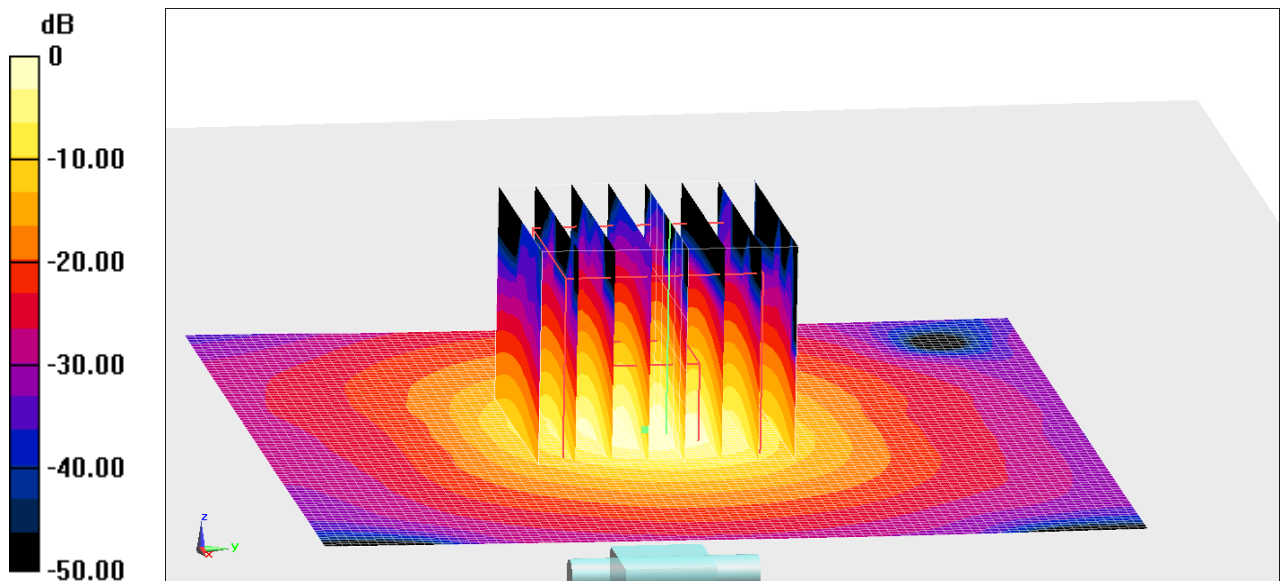Maximum value of SAR (interpolated) = 18.4 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 64.17 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 31.54 W/kg
**SAR(1 g) = 7.55 W/kg; SAR(10 g) = 2.11 W/kg**
Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

**Fig.B.16 validation 5300MHz 100mW**

## 5600MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Head 5 GHz
Medium parameters used: f = 5600 MHz; σ = 5.171 mho/m; $\varepsilon_r$ = 36.2; ρ = 1000 kg/m³
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.98, 4.98, 4.98)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
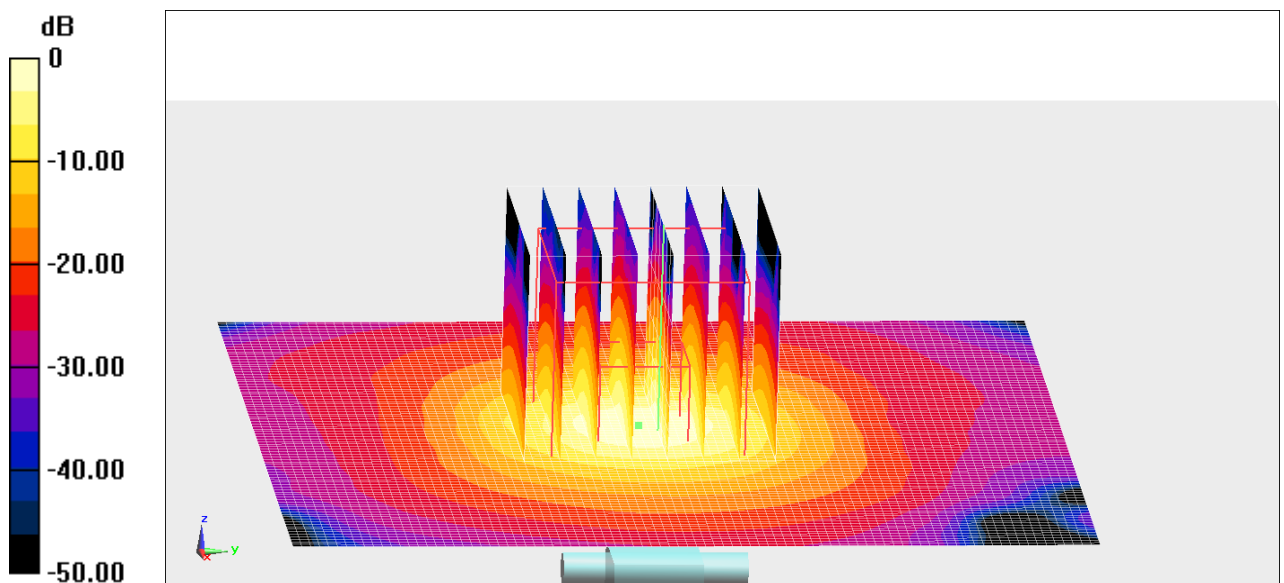Maximum value of SAR (interpolated) = 19.8 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 74.66 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 35.4 W/kg
**SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.35 W/kg**
Maximum value of SAR (measured) = 19.6 W/kg



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

**Fig.B.17 validation 5600MHz 100mW**

## 5600MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Body 5 GHz
Medium parameters used: f = 5600 MHz; σ = 5.729 mho/m; $\varepsilon_r$ = 47.04; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.50, 4.50, 4.50)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
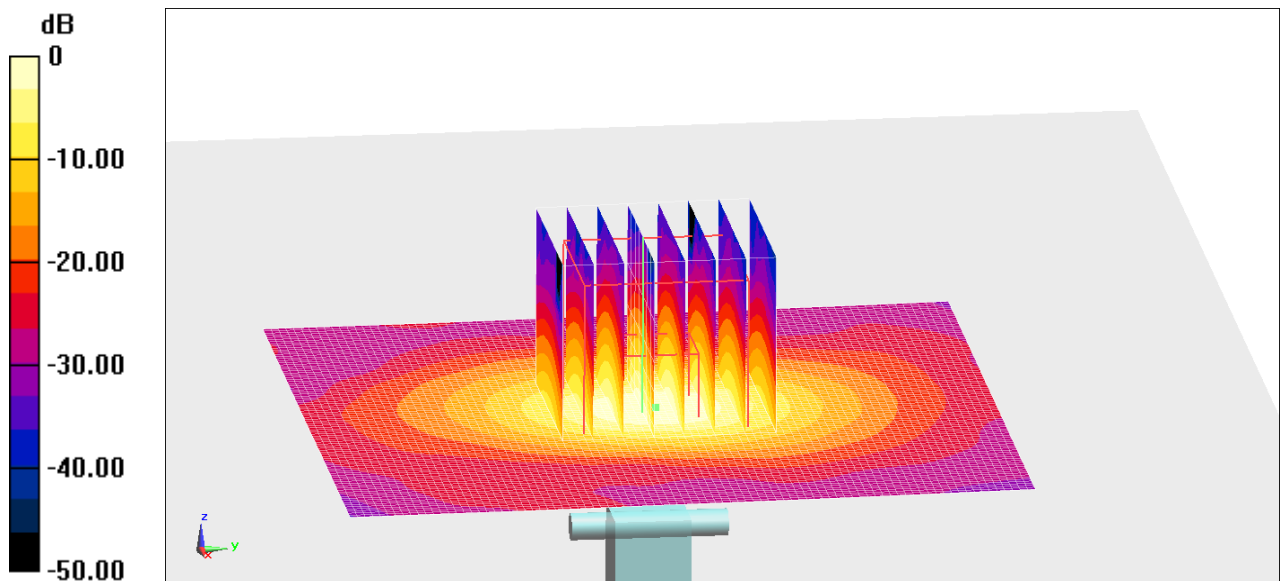Maximum value of SAR (interpolated) = 20.3 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.62 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 37.13 W/kg
**SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.23 W/kg**
Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

**Fig.B.18 validation 5600MHz 100mW**

## 5800MHz

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Head 5 GHz

Medium parameters used: f = 5800 MHz; σ = 5.381 mho/m; $\varepsilon_r$ = 35.81; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 5800 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(5.11, 5.11, 5.11)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
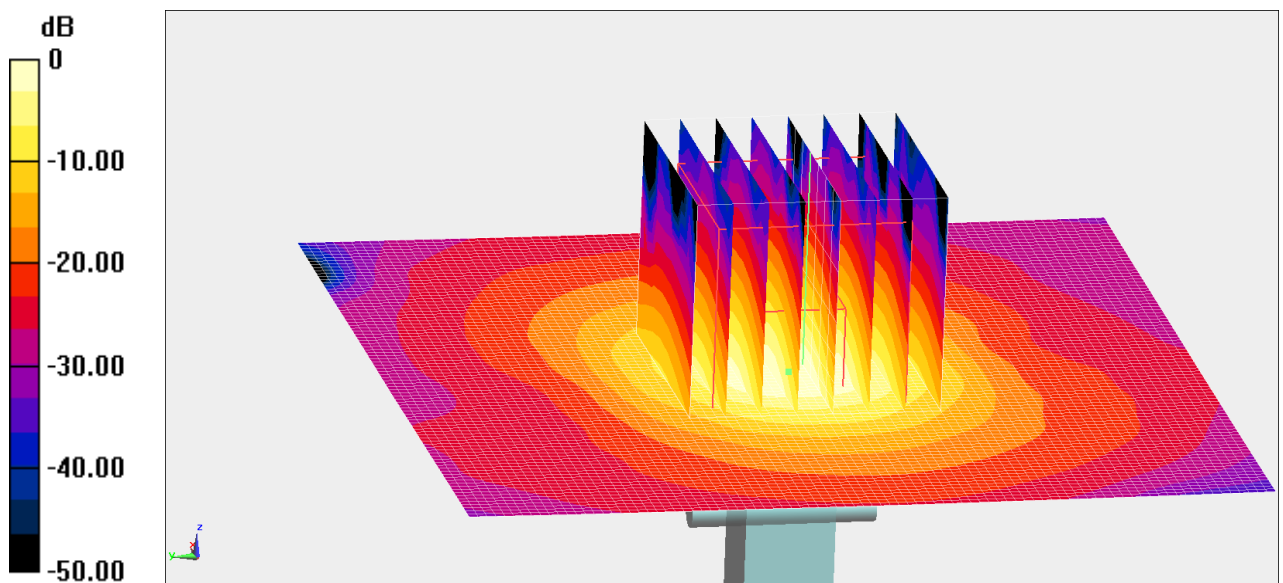
Maximum value of SAR (interpolated) = 20.1 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.92 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 39.95 W/kg

**SAR(1 g) = 8.01 W/kg; SAR(10 g) = 2.28 W/kg**

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

**Fig.B.19 validation 5800MHz 100mW**

## 5800MHz

Date: 2018-5-31
Electronics: DAE4 Sn1525
Medium: Body 5 GHz
Medium parameters used: f = 5800 MHz; σ = 6.008 mho/m; $\varepsilon_r$ = 46.64; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 5800 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(4.67, 4.67, 4.67)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
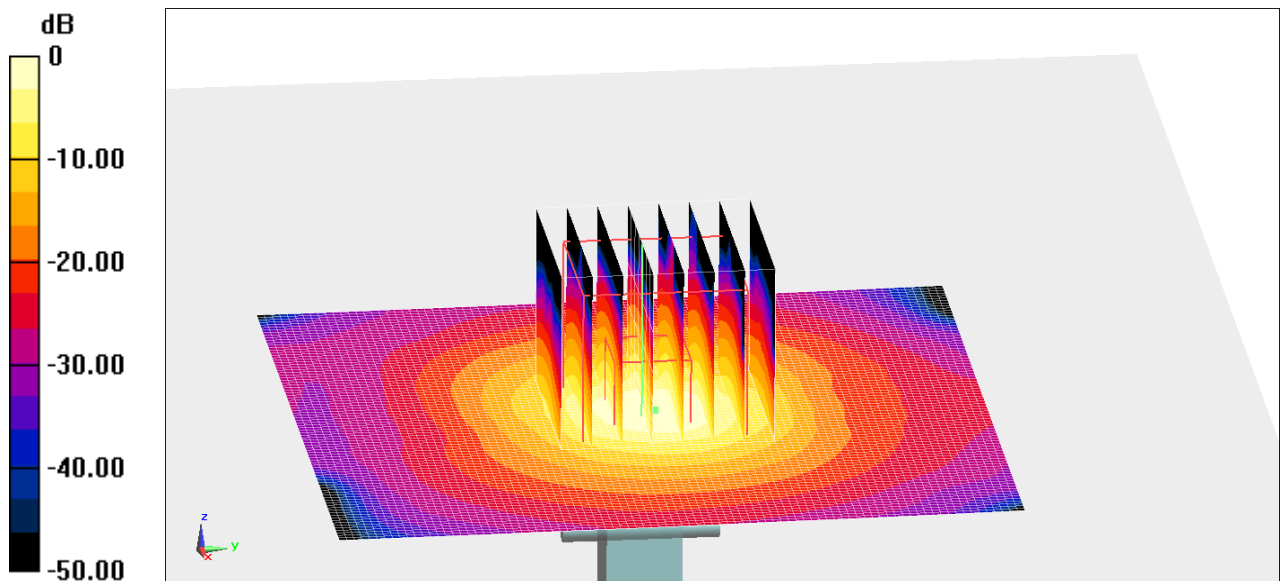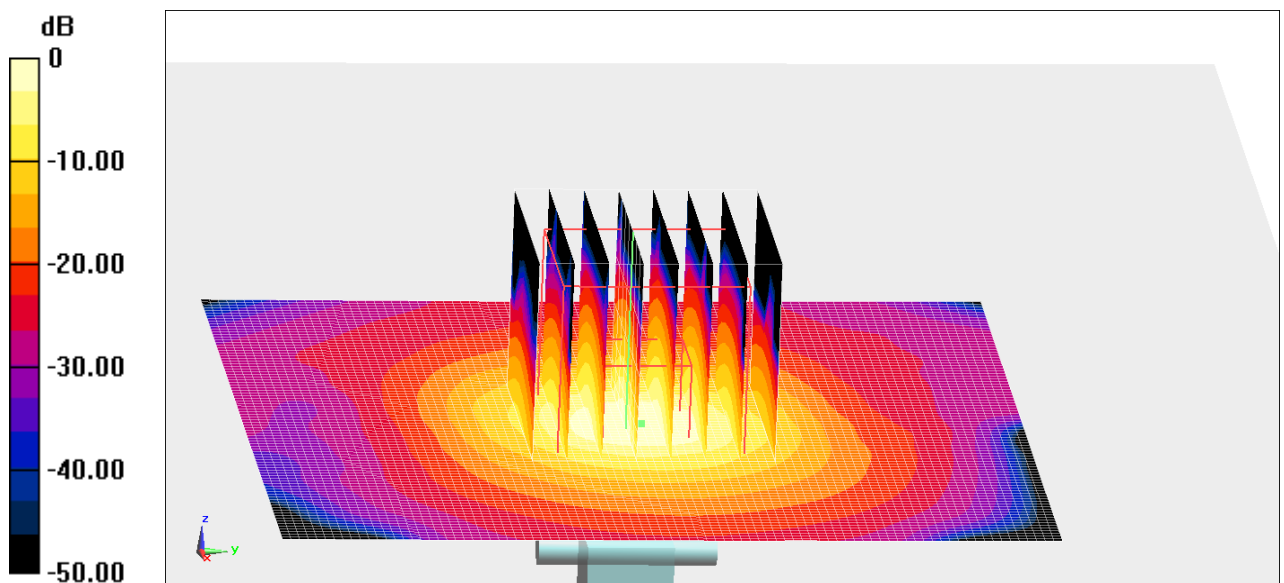Maximum value of SAR (interpolated) = 18.6 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 67.15 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 35.63 W/kg
**SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.15 W/kg**
Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

**Fig.B.20 validation 5800MHz 100mW**

## 750MHz

Date: 2018-6-6

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used: f = 750 MHz; σ = 0.895 mho/m; $\varepsilon_r$ = 42.4; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.57, 10.57, 10.57)

**System Validation /Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 48.86 V/m; Power Drift = -0.05 dB

**Fast SAR: SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.35 W/kg**

Maximum value of SAR (interpolated) = 2.19 W/kg

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

Reference Value = 48.86 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.80 W/kg

**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.32 W/kg**

Maximum value of SAR (measured) = 2.16 W/kg
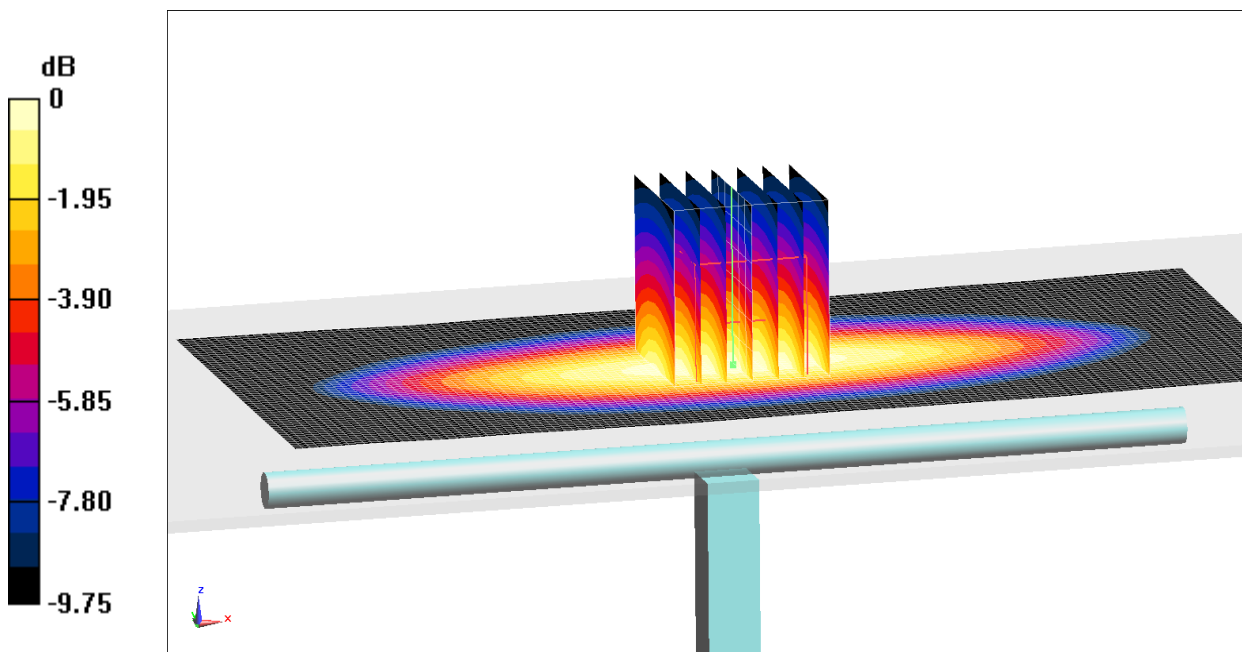


0 dB = 2.16 W/kg = 3.34 dB W/kg

**Fig.B.21 validation 750MHz 250mW**

## 750MHz

Date: 2018-6-6
Electronics: DAE4 Sn1525
Medium: Body750 MHz
Medium parameters used: f = 750 MHz; σ = 0.965 mho/m; $\varepsilon_r$ = 56.31; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9℃        Liquid Temperature: 22.5℃
Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.63, 10.63, 10.63)

**System Validation/Area Scan (81x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 50.28 V/m; Power Drift = -0.06 dB
**Fast SAR: SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.42 W/kg**
Maximum value of SAR (interpolated) = 2.43 W/kg

**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.28 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.95 W/kg
**SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.44 W/kg**
Maximum value of SAR (measured) = 2.45 W/kg
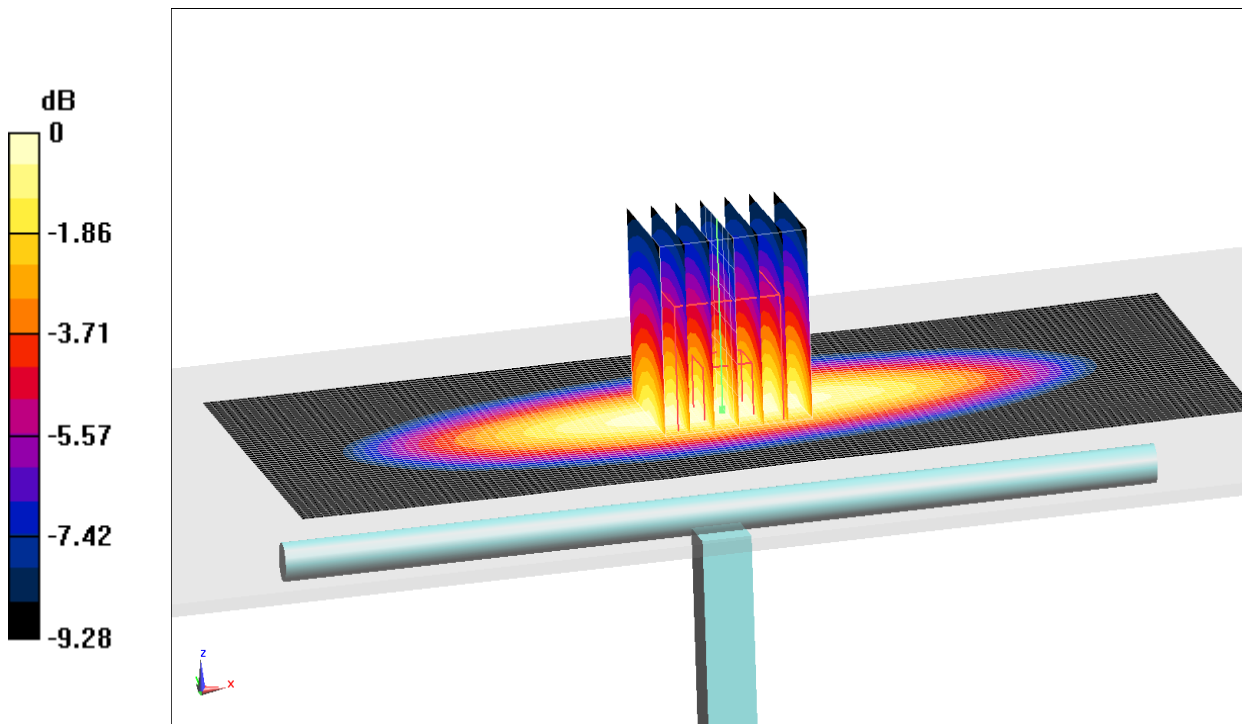


0 dB = 2.45 W/kg = 3.89 dB W/kg

**Fig.B.22 validation 750MHz 250mW**

## 835MHz

Date: 2018-6-4

Electronics: DAE4 Sn1525

Medium: Head 850 MHz

Medium parameters used: f = 835 MHz; σ = 0.887 S/m; $\varepsilon_r$ = 41.87; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9$^o$C        Liquid Temperature: 22.5$^o$C

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(10.28, 10.28, 10.28)

**System Validation/Area Scan (61x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 54.38 V/m; Power Drift = -0.05 dB

**Fast SAR: SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.52 W/kg**

Maximum value of SAR (interpolated) = 2.56 W/kg

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

Reference Value = 54.38 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.09 W/kg

**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.49 W/kg**

Maximum value of SAR (measured) = 2.53 W/kg
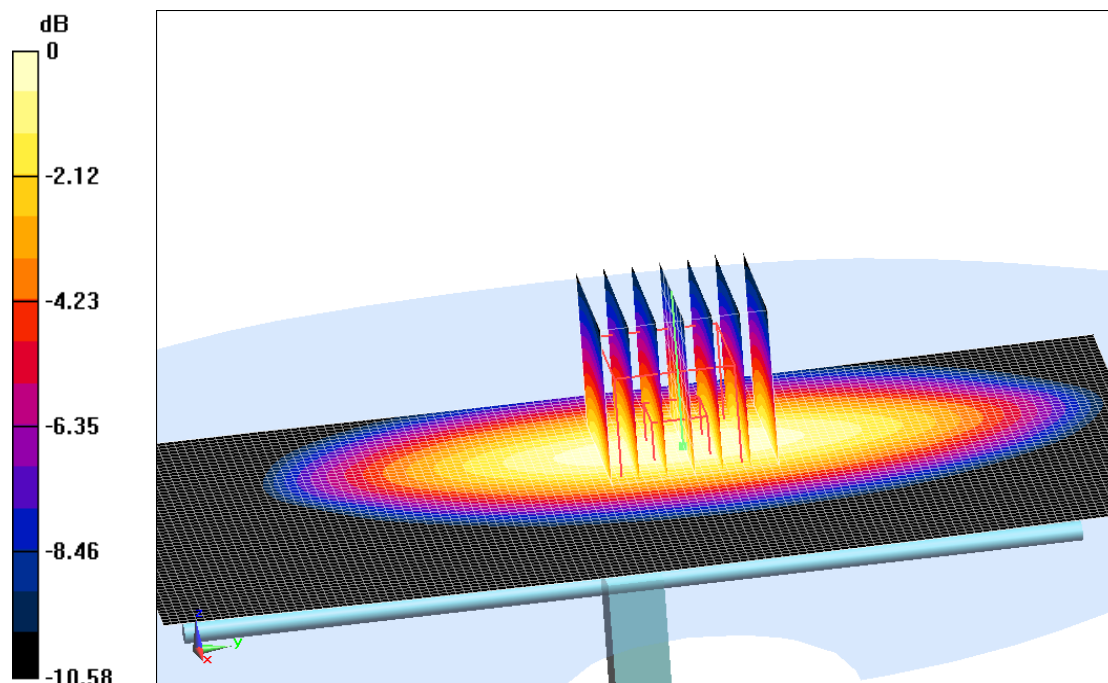


0 dB = 2.53 W/kg = 4.03 dBW/kg

**Fig.B.23 validation 835MHz 250mW**

## 835MHz

Date: 2018-6-4
Electronics: DAE4 Sn1525
Medium: Body 850 MHz
Medium parameters used: f = 835 MHz; σ = 0.986 S/m; $\varepsilon_r$ = 55.98; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(10.21, 10.21, 10.21)

**System Validation /Area Scan (61x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 52.31 V/m; Power Drift = -0.03 dB
**Fast SAR: SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg**
Maximum value of SAR (interpolated) = 2.67 W/kg
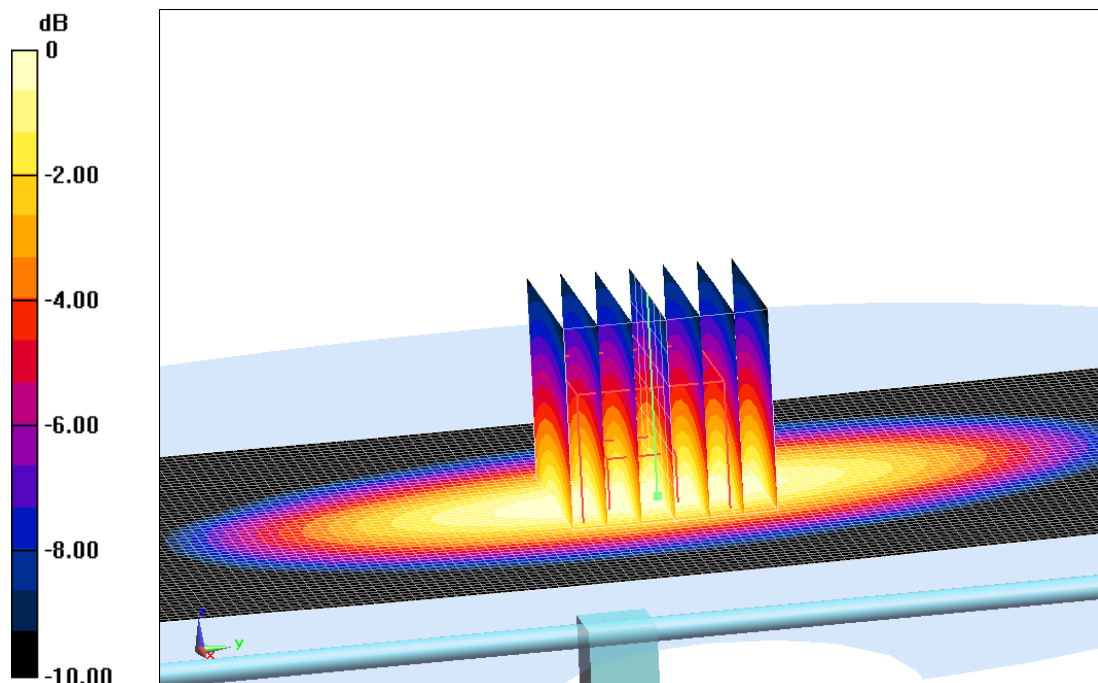
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.31 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.12 W/kg
**SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.55 W/kg**
Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.70 W/kg = 4.31 dBW/kg

**Fig.B.24 validation 835MHz 250mW**

## 1750MHz

Date: 2018-6-6

Electronics: DAE4 Sn1525

Medium: Head 1750 MHz

Medium parameters used: f=1750 MHz; σ = 1.38 mho/m; εr = 40.52; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.70, 8.70, 8.70)


**System Validation/Area Scan (81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 90.83 V/m; Power Drift = 0.02 dB

**Fast SAR: SAR(1 g) = 9.18 W/kg; SAR(10 g) = 4.85 W/kg**

Maximum value of SAR (interpolated) = 10.1 W/kg


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

Reference Value = 90.83 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 15.71 W/kg

**SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.93 W/kg**

Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.2 W/kg = 10.09 dB W/kg

**Fig.B.25 validation 1750MHz 250mW**

## 1750MHz

Date: 2018-6-6

Electronics: DAE4 Sn1525

Medium: Body 1750 MHz

Medium parameters used: f=1750 MHz; σ = 1.513 mho/m; εr = 53.63; ρ = 1000 kg/m³

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

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.60, 8.60, 8.60)

**System Validation/Area Scan (81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 92.19 V/m; Power Drift = -0.04 dB

**Fast SAR: SAR(1 g) = 9.23 W/kg; SAR(10 g) = 4.95 W/kg**

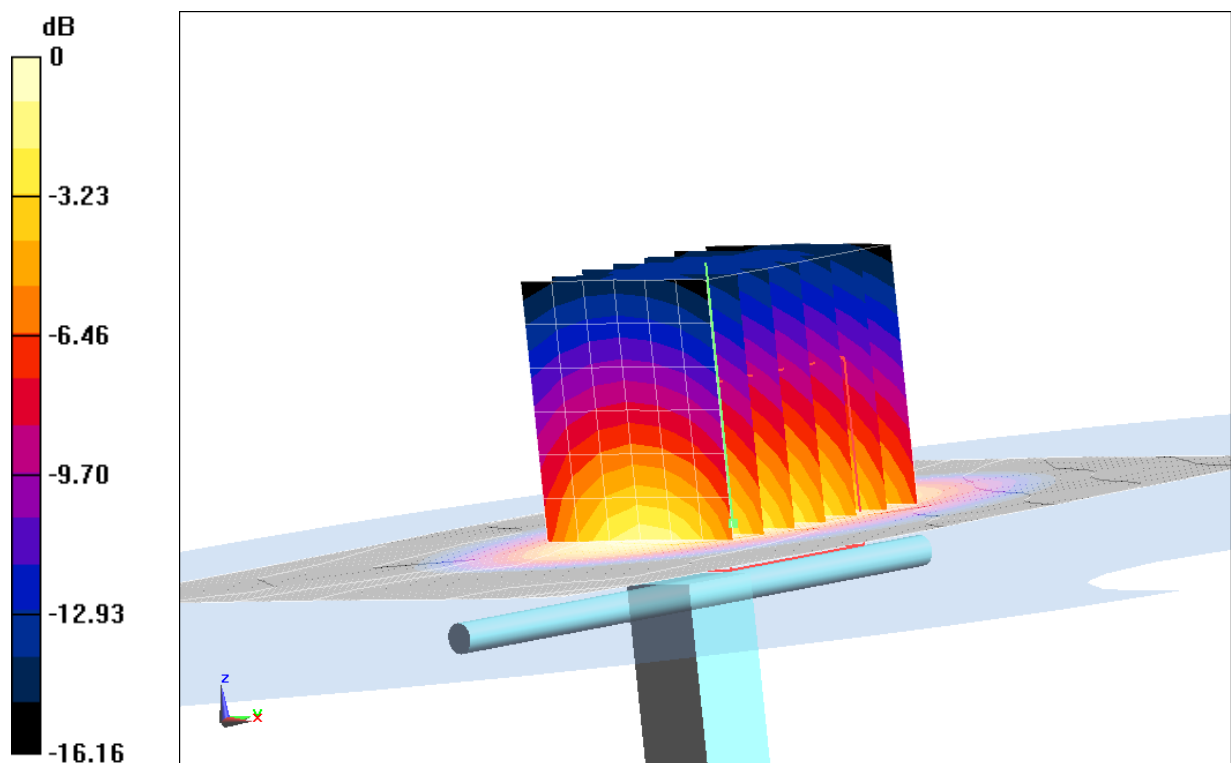Maximum value of SAR (interpolated) = 10.2 W/kg

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

Reference Value = 92.19 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 15.21 W/kg

**SAR(1 g) = 9.13 W/kg; SAR(10 g) = 4.86 W/kg**

Maximum value of SAR (measured) = 10.1 W/kg
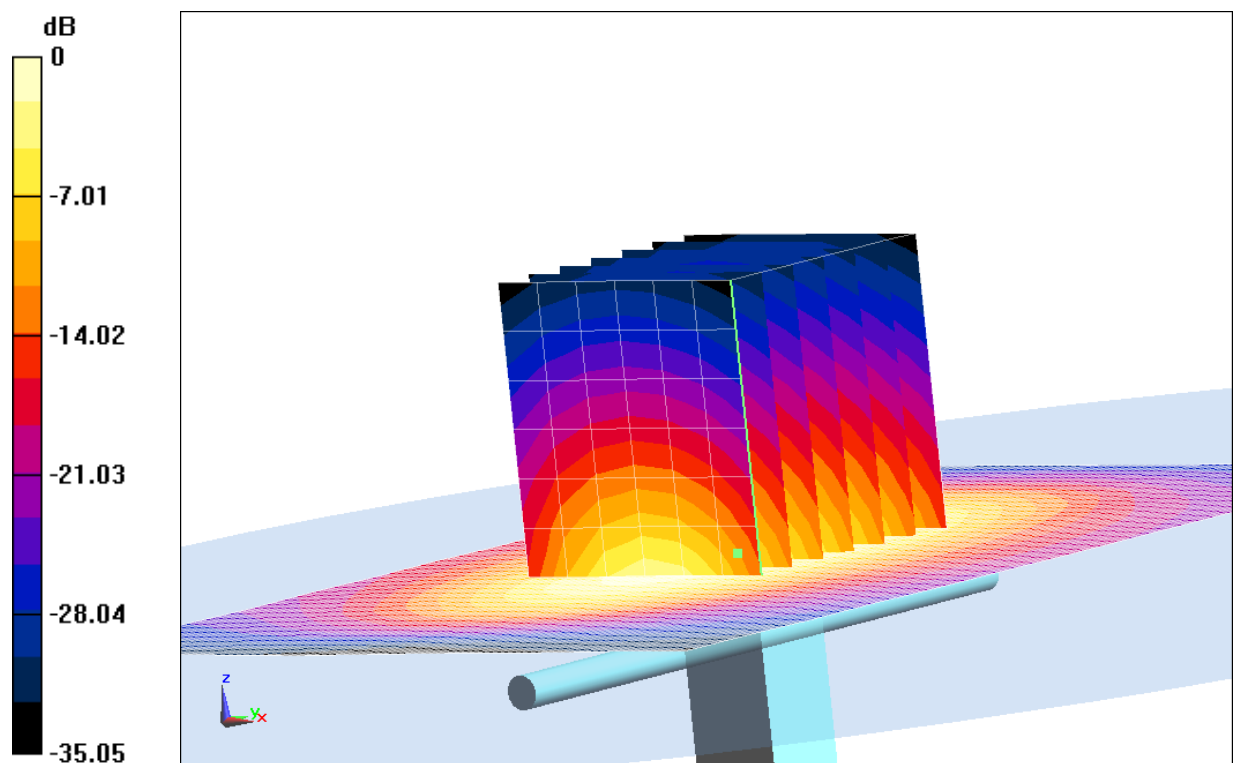


0 dB = 10.1 W/kg = 10.04 dB W/kg

**Fig.B.26 validation 1750MHz 250mW**

## 1900MHz

Date: 2018-6-5

Electronics: DAE4 Sn1525

Medium: Head 1900 MHz

Medium parameters used: f = 1900 MHz; σ = 1.401 mho/m; $\varepsilon_r$ = 40.71; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF (8.39, 8.39, 8.39)

**System Validation /Area Scan(61x81x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 91.04 V/m; Power Drift = 0.06 dB

**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.48 W/kg**

Maximum value of SAR (interpolated) = 12.5 W/kg

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

Reference Value = 91.04 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 17.88 W/kg

**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.31 W/kg**

Maximum value of SAR (measured) = 12.3 W/kg
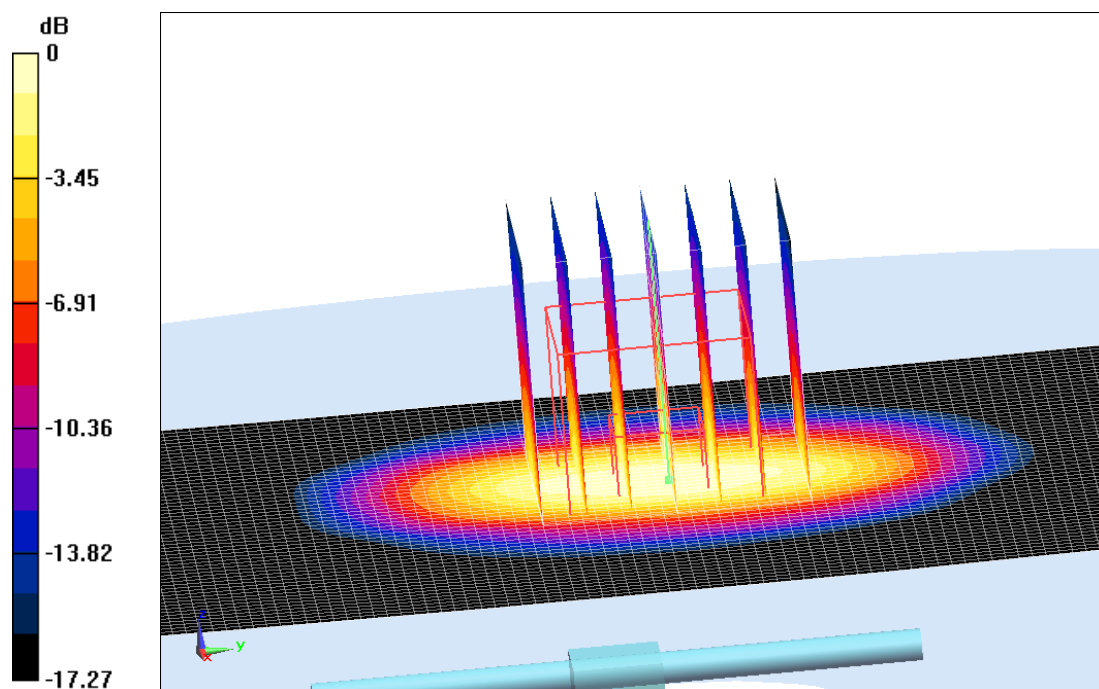


0 dB = 12.3 W/kg = 10.90 dBW/kg

**Fig.B.27 validation 1900MHz 250mW**

## 1900MHz

Date: 2018-6-5
Electronics: DAE4 Sn1525
Medium: Body 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.538 S/m; $\varepsilon_r$ = 52.62; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(8.32, 8.32, 8.32)

**System Validation/Area Scan (81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 94.98 V/m; Power Drift = 0.03 dB
**Fast SAR: SAR(1 g) = 10.6 W/kg; SAR(10 g) = 5.63 W/kg**
Maximum value of SAR (interpolated) = 12.6 W/kg

**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.98 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 19.25 W/kg
**SAR(1 g) = 10.5 W/kg; SAR(10 g) = 5.55 W/kg**
Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dB W/kg

**Fig.B.28 validation 1900MHz 250mW**

## 2450MHz

Date: 2018-6-8

Electronics: DAE4 Sn1525

Medium: Head 2450 MHz

Medium parameters used: f = 2450 MHz; σ = 1.823 mho/m; $\varepsilon_r$ = 38.7; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(7.89, 7.89, 7.89)


**System Validation /Area Scan (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 90.2 V/m; Power Drift = -0.02 dB

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.41 W/kg**

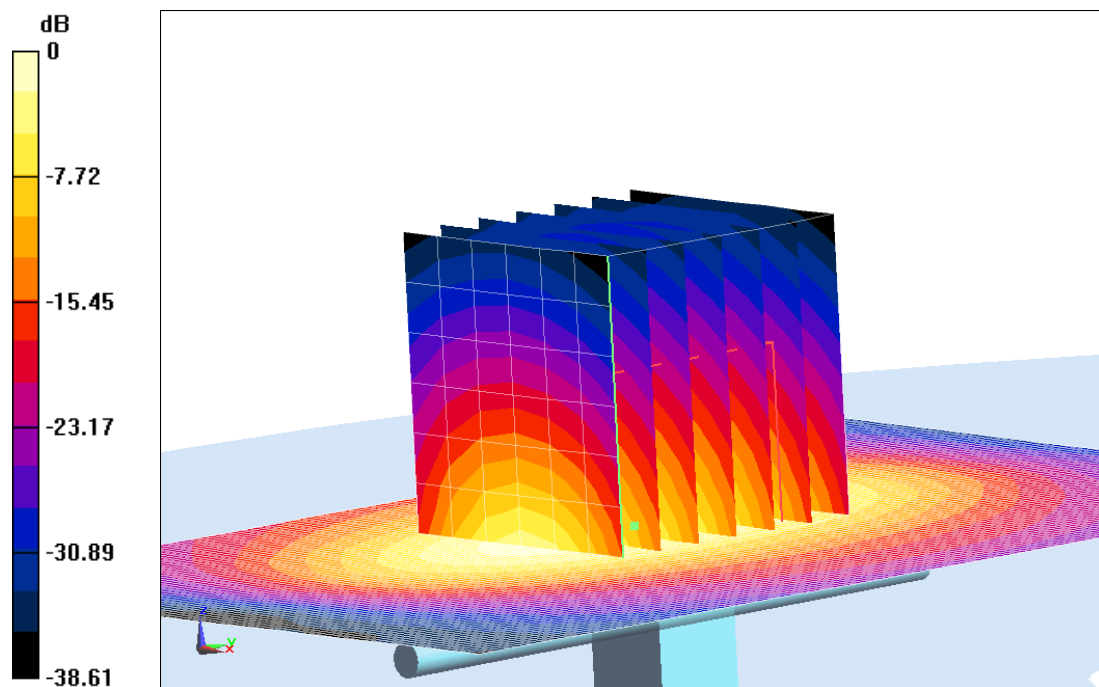Maximum value of SAR (interpolated) = 16.7 W/kg


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

Reference Value = 90.2 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 27.38 W/kg

**SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.24 W/kg**

Maximum value of SAR (measured) = 16.5 W/kg
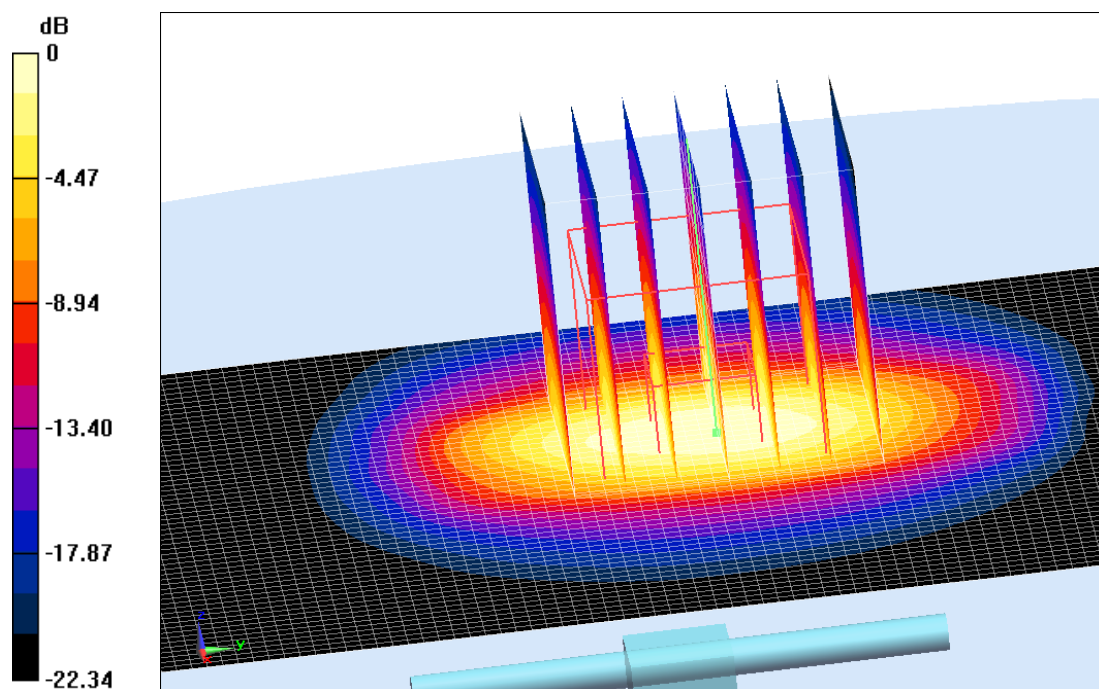


0 dB = 16.5 W/kg = 12.17 dBW/kg

**Fig.B.29 validation 2450MHz 250mW**

## 2450MHz

Date: 2018-6-8

Electronics: DAE4 Sn1525

Medium: Body 2450 MHz

Medium parameters used: f = 2450 MHz; σ = 1.965 S/m; $ε_r$ = 51.98; ρ = 1000 kg/m$^3$

Ambient Temperature: 22.9℃          Liquid Temperature: 22.5℃

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(8.09, 8.09, 8.09)

**System Validation/Area Scan (81x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 89.87 V/m; Power Drift = -0.04 dB

**SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.94 W/kg**

Maximum value of SAR (interpolated) = 14.3 W/kg

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

Reference Value = 89.87 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 24.55 W/kg

**SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.11 W/kg**

Maximum value of SAR (measured) = 14.5 W/kg
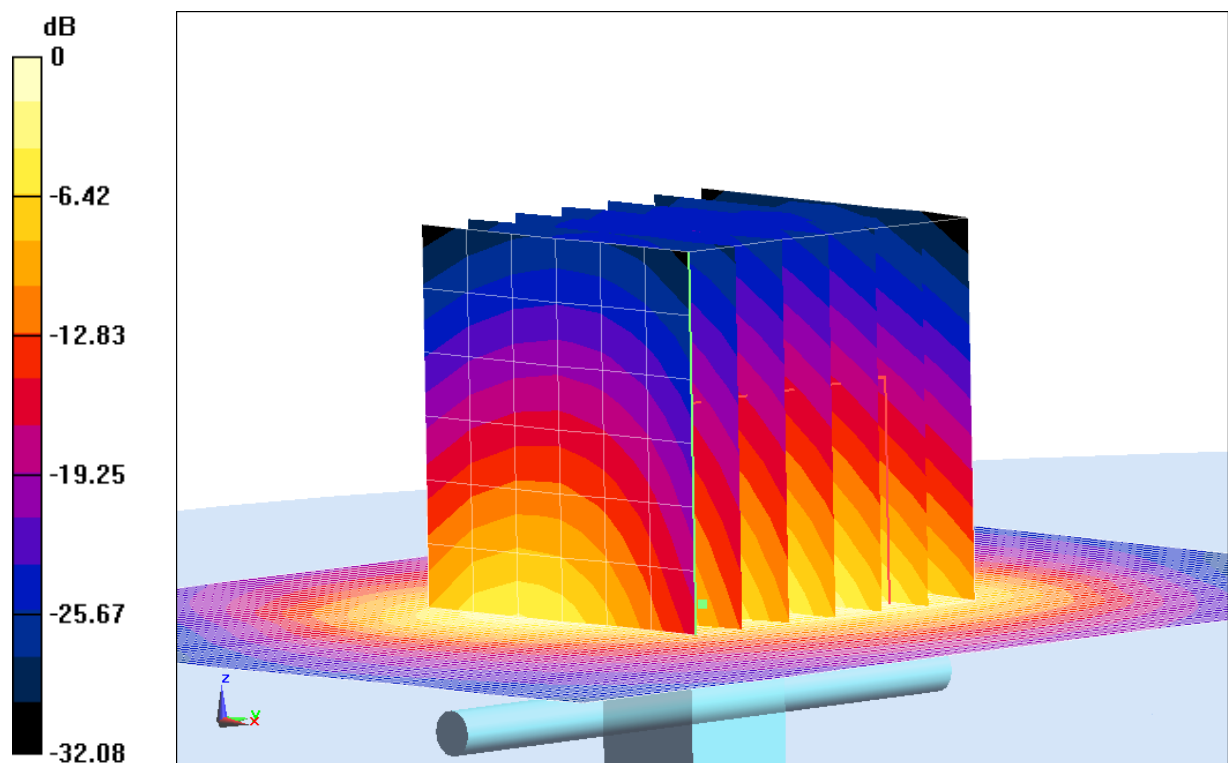


0 dB = 14.5 W/kg = 11.61 dB W/kg

**Fig.B.30 validation 2450MHz 250mW**

## 2600MHz

Date: 2018-6-7
Electronics: DAE4 Sn1525
Medium: Head 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 1.969 mho/m; $\varepsilon_r$ = 38.38; ρ = 1000 kg/m$^3$
Ambient Temperature: 22.9ºC          Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.76, 7.76, 7.76)

**System Validation/Area Scan(81x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 82.41 V/m; Power Drift = 0.01 dB
**SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.74 W/kg**
Maximum value of SAR (interpolated) = 22.5 W/kg

**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 82.41 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 31.24 W/kg
**SAR(1 g) = 14.7 W/kg; SAR(10 g) = 6.57 W/kg**
Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dBW/kg

**Fig.B.31 validation 2600MHz 250mW**

## 2600MHz

Date: 2018-6-7
Electronics: DAE4 Sn1525
Medium: Body 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 2.173 mho/m; $\varepsilon_r$ = 52.81; ρ = 1000 kg/m³
Ambient Temperature: 22.9°C        Liquid Temperature: 22.5°C
Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(7.84, 7.84, 7.84)

**System Validation /Area Scan(81x121x1):**Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 81.33 V/m; Power Drift = -0.02 dB
**Fast SAR: SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.41 W/kg**
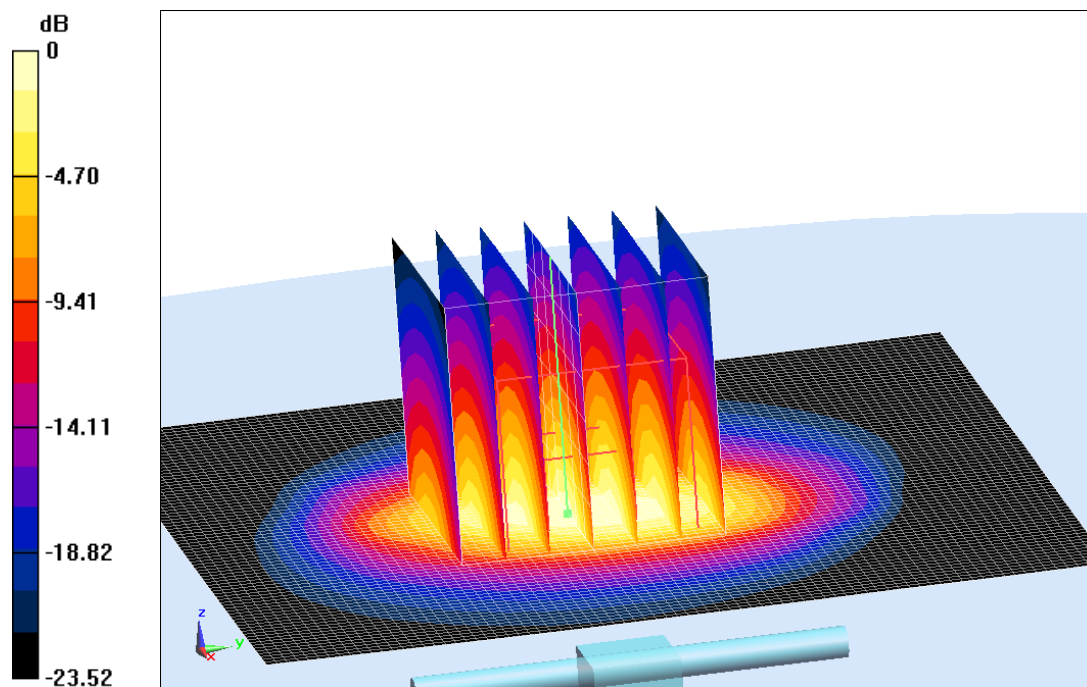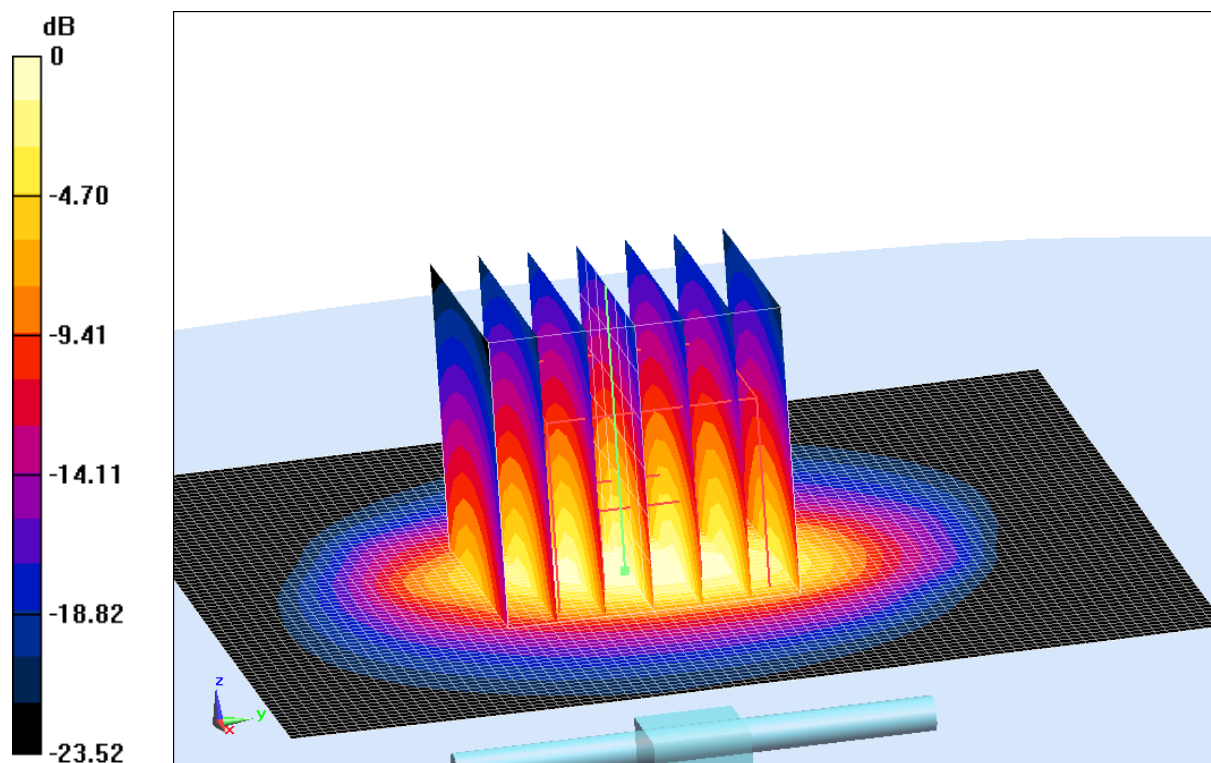Maximum value of SAR (interpolated) = 22.4 W/kg

**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 81.33 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 31.01 W/kg
**SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.32 W/kg**
Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dB W/kg

**Fig.B.32 validation 2600MHz 250mW**

## 5300MHz

Date: 2018-6-8
Electronics: DAE4 Sn1525
Medium: Head 5 GHz
Medium parameters used: f = 5300 MHz; $\sigma$ = 4.805 mho/m; $\varepsilon_r$ = 36.68; $\rho$ = 1000 kg/m³
Ambient Temperature: 22.9ºC        Liquid Temperature: 22.5ºC
Communication System: CW Frequency: 5300 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7464 ConvF(5.53, 5.53, 5.53)

**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 19.3 W/kg

**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 73.98 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 35.48 W/kg
**SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.38 W/kg**
Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg

**Fig.B.33 validation 5300MHz 100mW**

## 5600MHz

Date: 2018-6-8

Electronics: DAE4 Sn1525

Medium: Body 5 GHz

Medium parameters used: f = 5600 MHz; σ = 5.719 mho/m; $\varepsilon_r$ = 47.59; ρ = 1000 kg/m$^3$

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

Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7464 ConvF(4.50, 4.50, 4.50)


**System Validation /Area Scan (91x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 20.3 W/kg


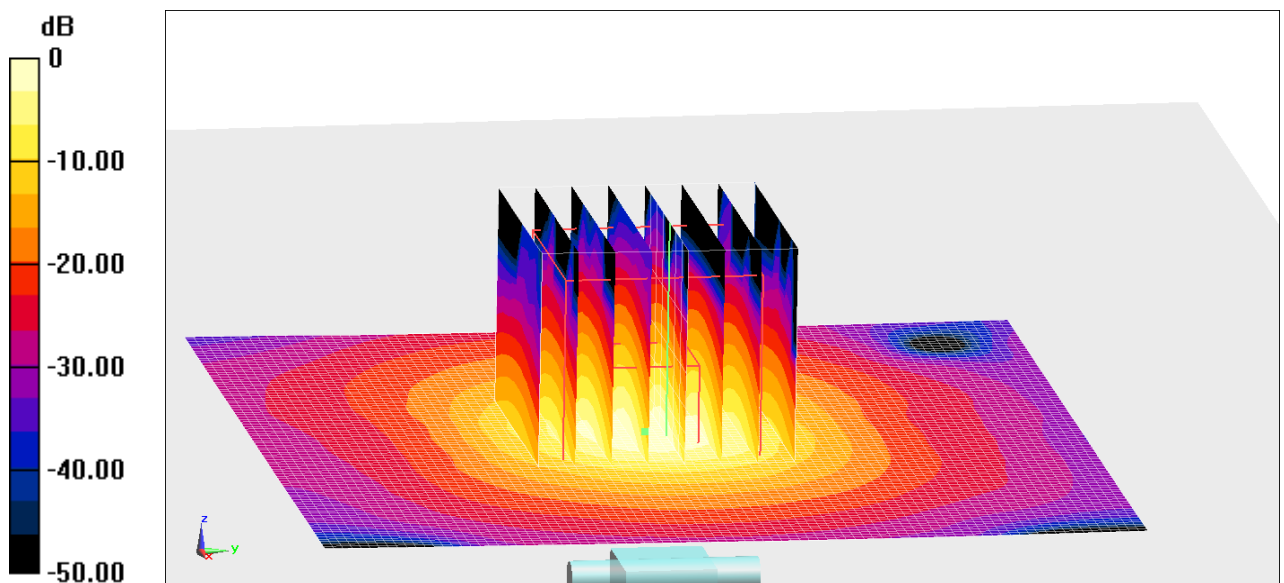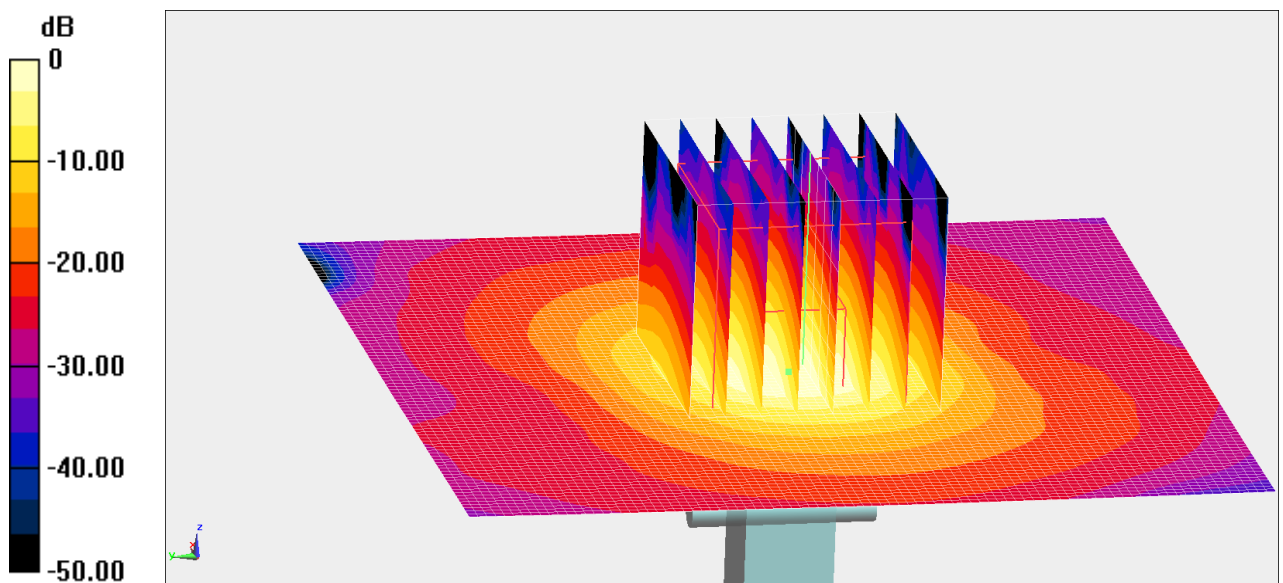**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.25 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 36.95 W/kg

**SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.21 W/kg**

Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

**Fig.B.34 validation 5600MHz 100mW**

The SAR system verification must be required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR.

**Table B.1 Comparison between area scan and zoom scan for system verification**

| Date | Band | Position | Area scan (1g) | Zoom scan (1g) | Drift (%) |
|------|------|----------|----------------|----------------|-----------|
| 2018-5-29 | 750 | Head | 2.15 | 2.12 | 1.42 |
| | 750 | Body | 2.23 | 2.25 | -0.89 |
| 2018-5-27 | 835 | Head | 2.34 | 2.31 | 1.30 |
| | 835 | Body | 2.35 | 2.39 | -1.67 |
| 2018-5-29 | 1750 | Head | 9.15 | 9.24 | -0.97 |
| | 1750 | Body | 9.27 | 9.17 | 1.09 |
| 2018-5-28 | 1900 | Head | 10.2 | 10.1 | 0.99 |
| | 1900 | Body | 10.4 | 10.3 | 0.97 |
| 2018-5-31 | 2450 | Head | 13.1 | 12.9 | 1.55 |
| | 2450 | Body | 12.6 | 12.8 | -1.56 |
| 2018-5-30 | 2600 | Head | 14.6 | 14.4 | 1.39 |
| | 2600 | Body | 14.3 | 14.2 | 0.70 |
| 2018-6-6 | 750 | Head | 2.07 | 2.03 | 1.97 |
| | 750 | Body | 2.19 | 2.21 | -0.90 |
| 2018-6-4 | 835 | Head | 2.36 | 2.33 | 1.29 |
| | 835 | Body | 2.34 | 2.37 | -1.27 |
| 2018-6-6 | 1750 | Head | 9.18 | 9.28 | -1.08 |
| | 1750 | Body | 9.23 | 9.13 | 1.10 |
| 2018-6-5 | 1900 | Head | 10.3 | 10.1 | 1.98 |
| | 1900 | Body | 10.6 | 10.5 | 0.95 |
| 2018-6-8 | 2450 | Head | 13.5 | 13.3 | 1.50 |
| | 2450 | Body | 12.7 | 12.9 | -1.55 |
| 2018-6-7 | 2600 | Head | 14.9 | 14.7 | 1.36 |
| | 2600 | Body | 14.3 | 14.2 | 0.70 |