

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;  $\sigma = 1.794$  mho/m;  $\epsilon_r = 38.85$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

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

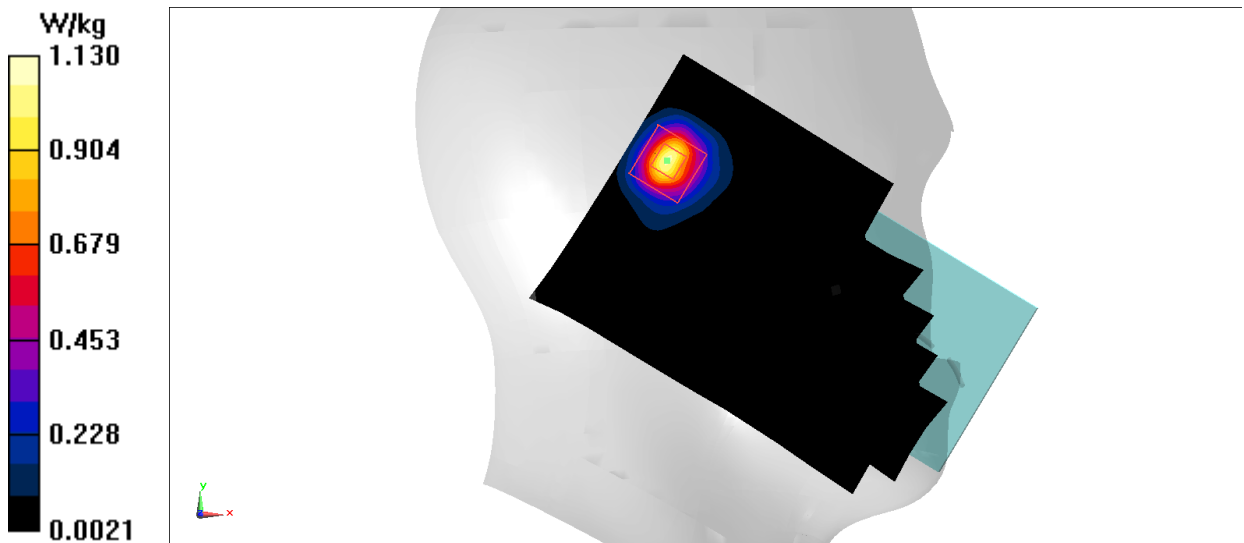


Fig.25 2450 MHz

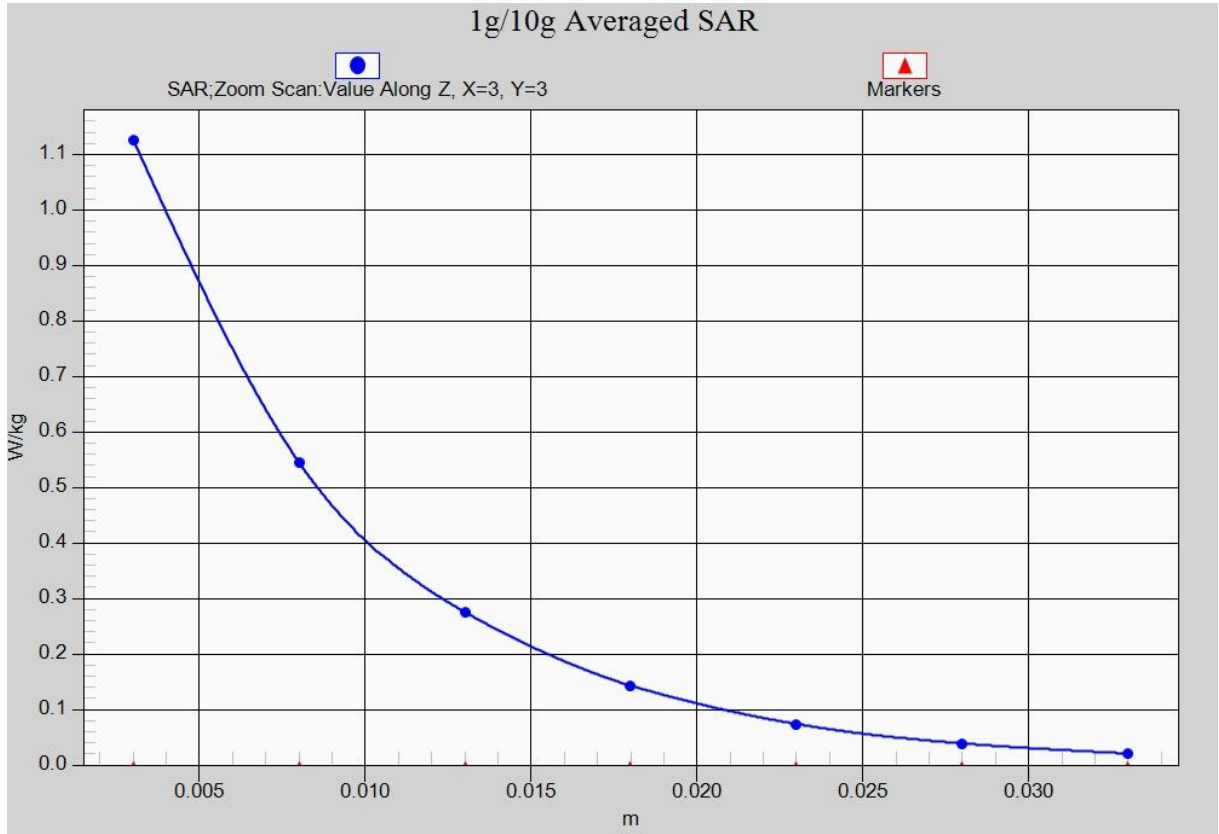


Fig. 25-1 Z-Scan at power reference point (2450 MHz)

### 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;  $\sigma = 1.918$  mho/m;  $\epsilon_r = 52.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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(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:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

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

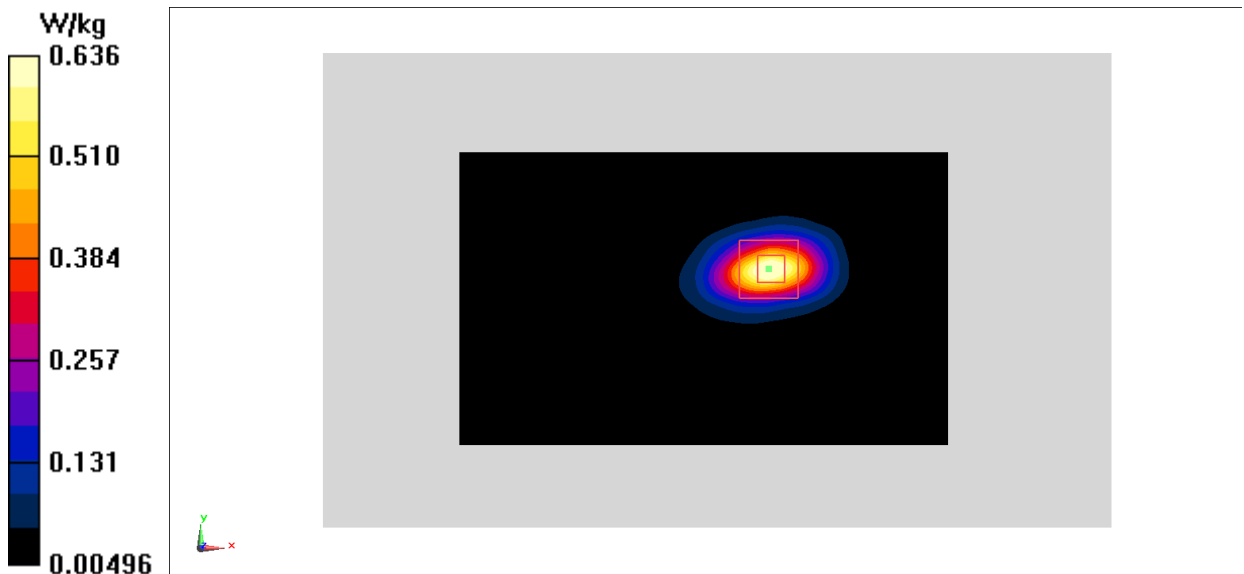


Fig.26 2450 MHz

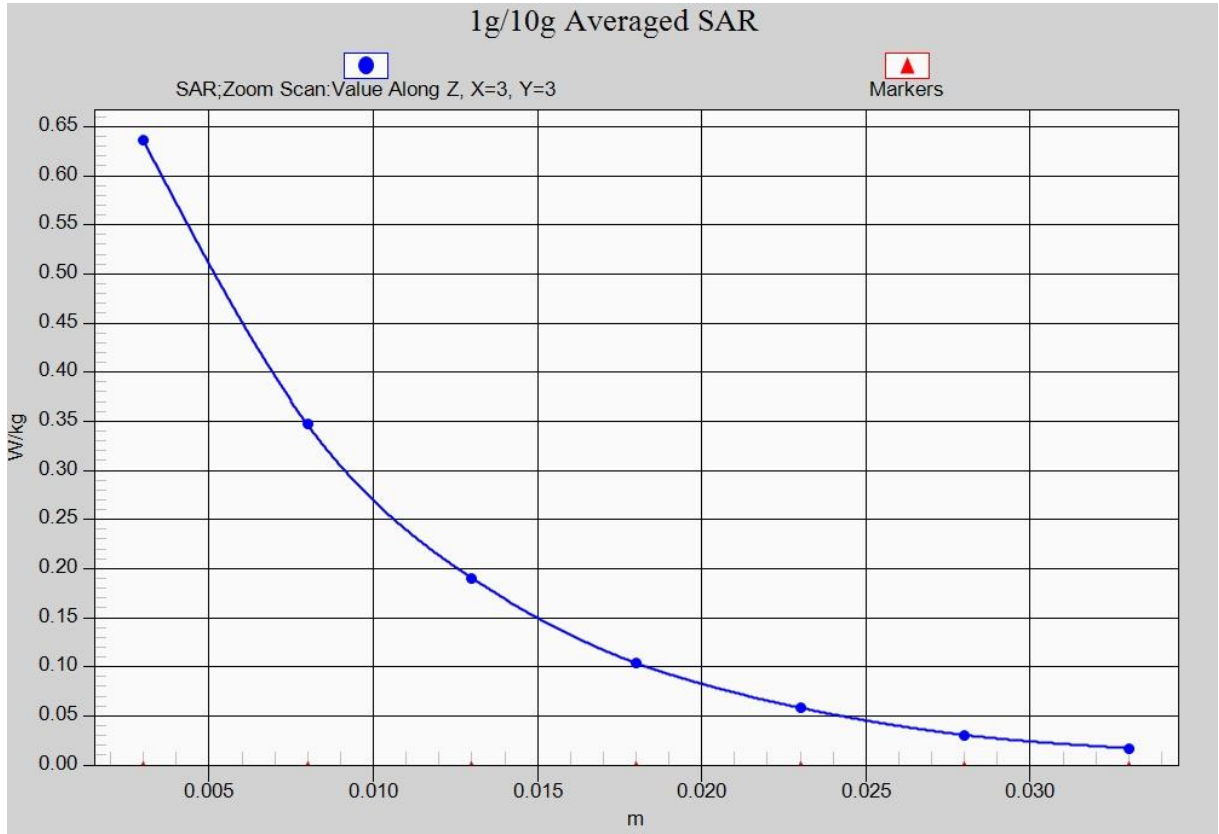


Fig. 26-1 Z-Scan at power reference point (2450 MHz)

### Wifi 802.11a Right Cheek Channel 56

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Head 5 GHz

Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.729$  mho/m;  $\epsilon_r = 36.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

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

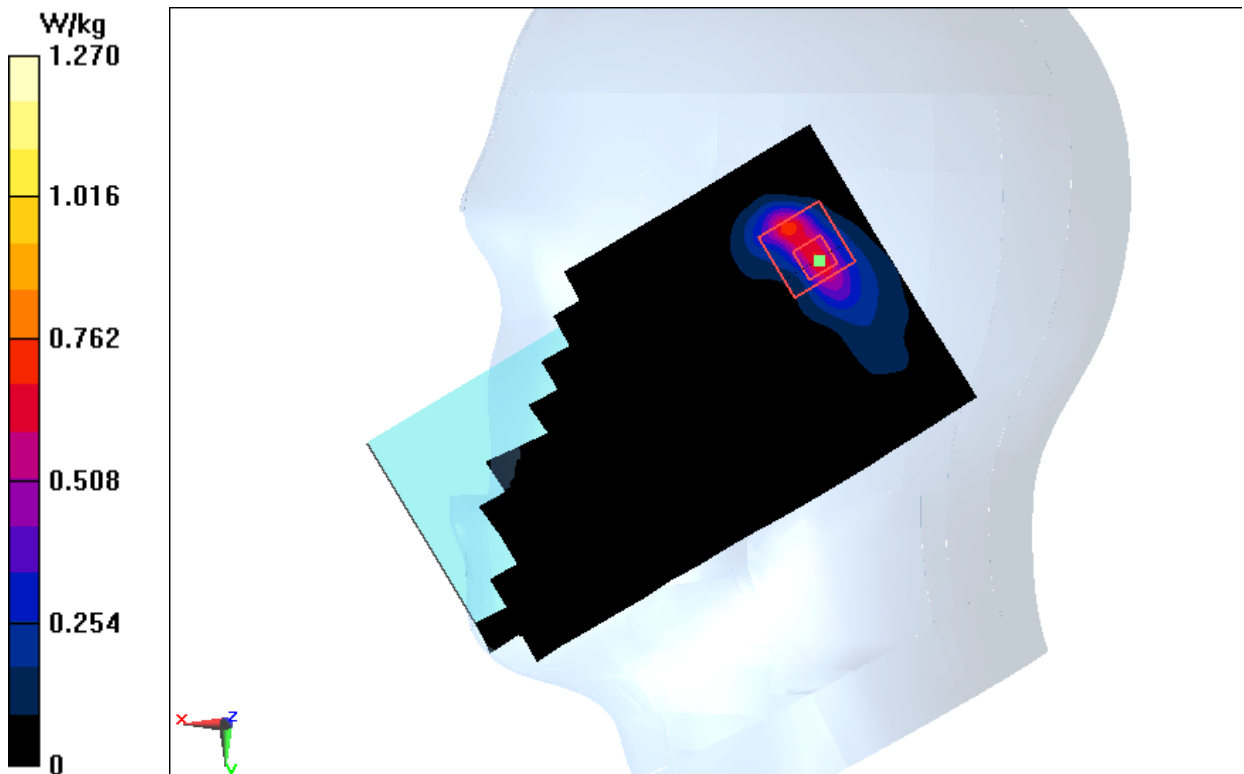


Fig.27 5GHz

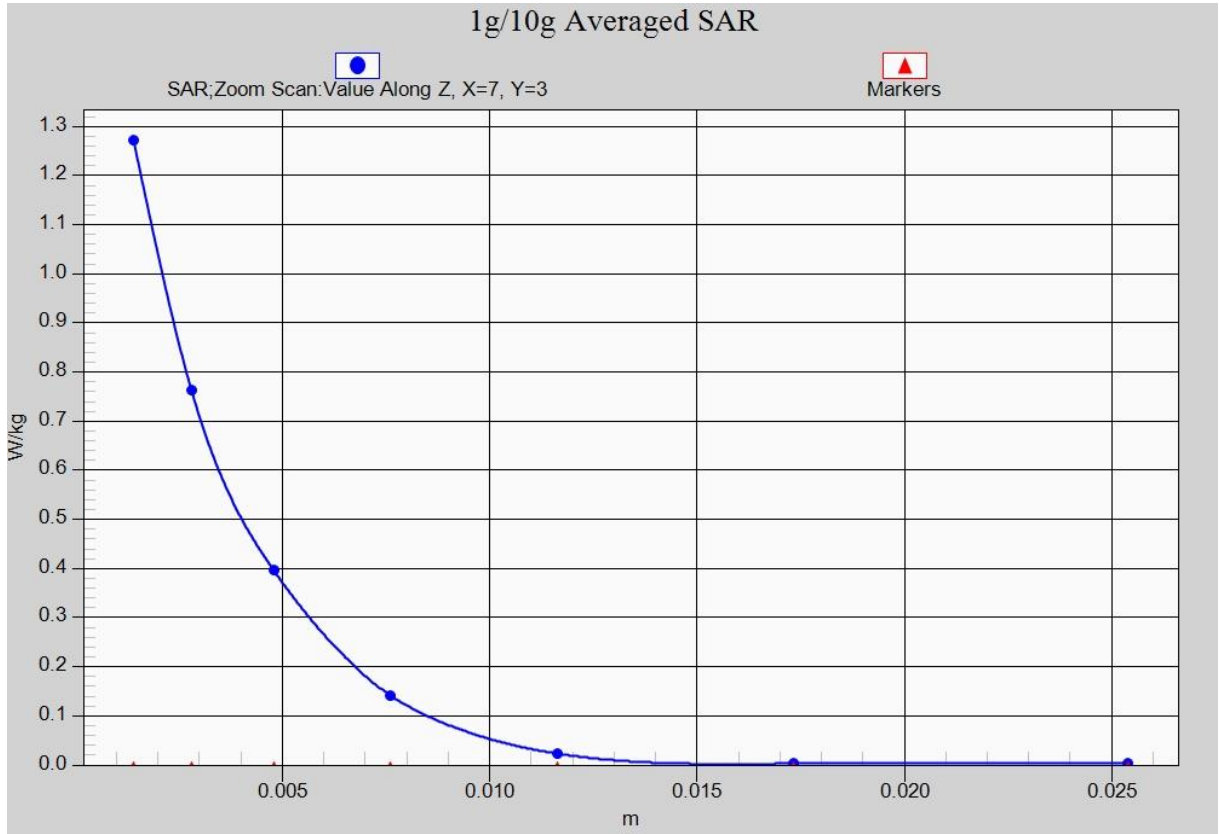


Fig. 27-1 Z-Scan at power reference point (5GHz)

### Wifi 802.11a Top Edge Channel 132

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Body 5 GHz

Medium parameters used:  $f = 5660$  MHz;  $\sigma = 5.779$  mho/m;  $\epsilon_r = 46.89$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

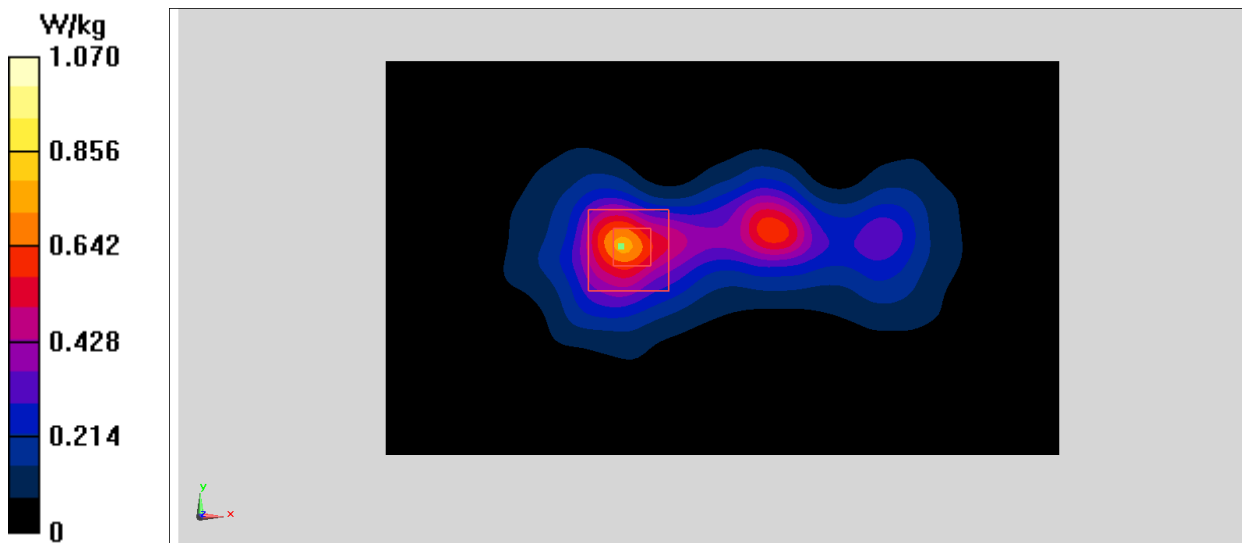


Fig.28 5GHz



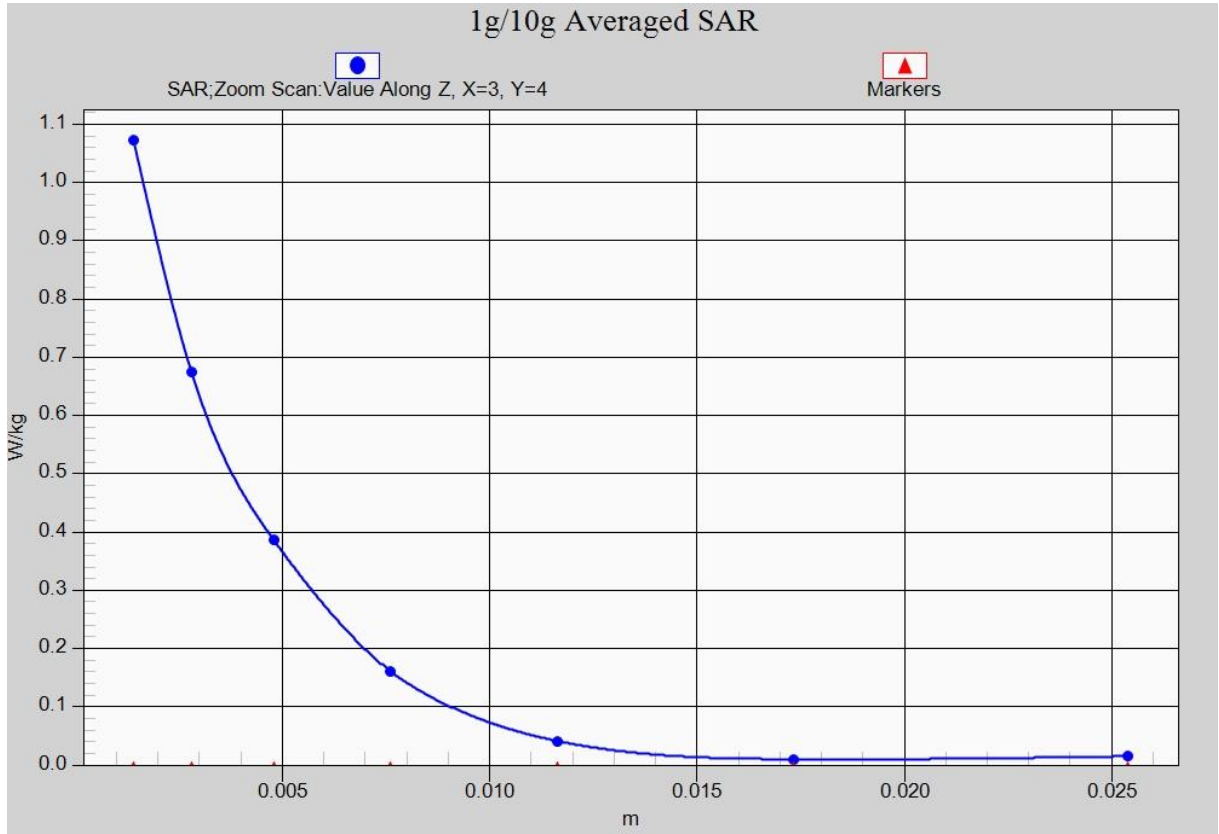


Fig. 28-1 Z-Scan at power reference point (5GHz)

## ANNEX B System Verification Results

### 750MHz

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 750 MHz

Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 42.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

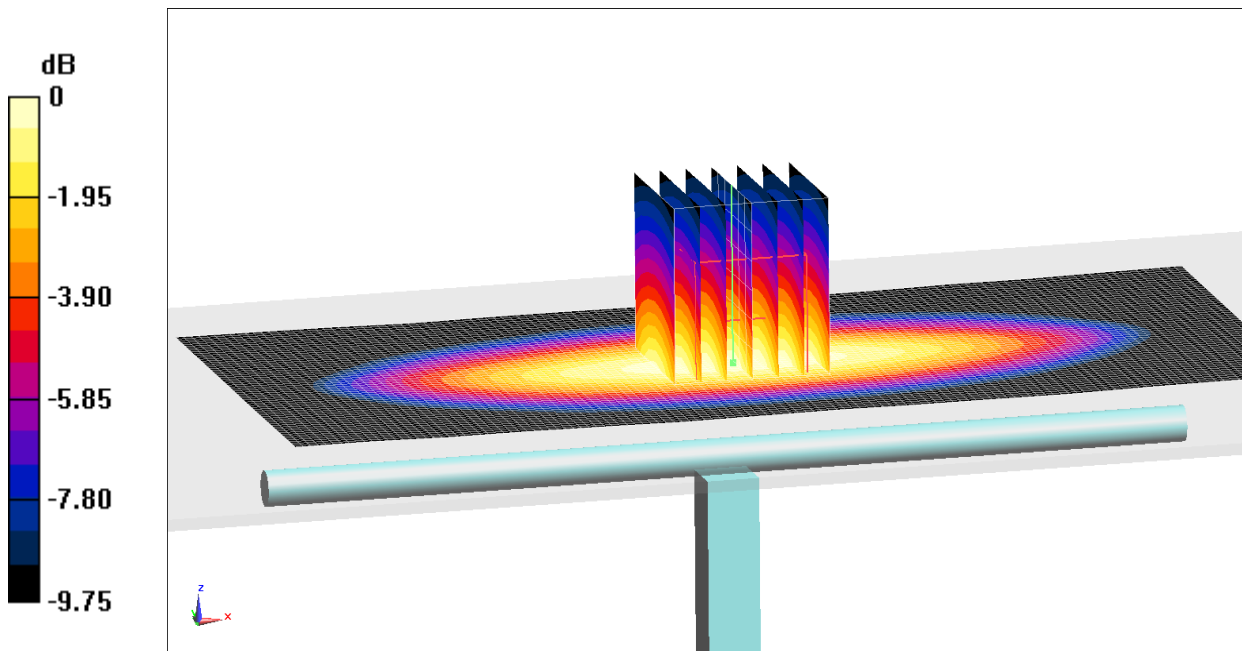
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.955 \text{ mho/m}$ ;  $\epsilon_r = 56.53$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value =  $51.01 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

**Fast SAR: SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.45 W/kg**

Maximum value of SAR (interpolated) =  $2.47 \text{ W/kg}$

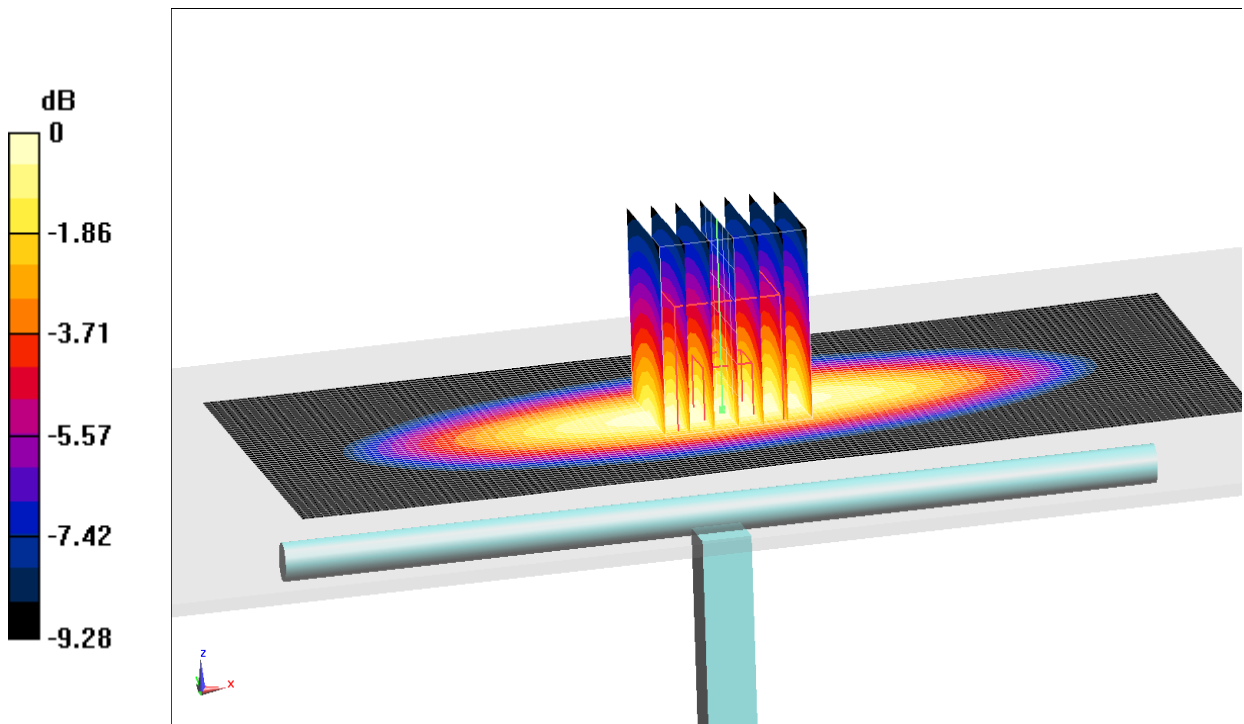
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $51.01 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

Peak SAR (extrapolated) =  $3.01 \text{ W/kg}$

**SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.47 W/kg**

Maximum value of SAR (measured) =  $2.49 \text{ W/kg}$



0 dB =  $2.49 \text{ W/kg} = 3.96 \text{ dB W/kg}$

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

## 835MHz

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Head 850 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.897 \text{ S/m}$ ;  $\epsilon_r = 41.97$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value =  $54.21 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

**Fast SAR: SAR(1 g) =  $2.34 \text{ W/kg}$ ; SAR(10 g) =  $1.51 \text{ W/kg}$**

Maximum value of SAR (interpolated) =  $2.54 \text{ W/kg}$

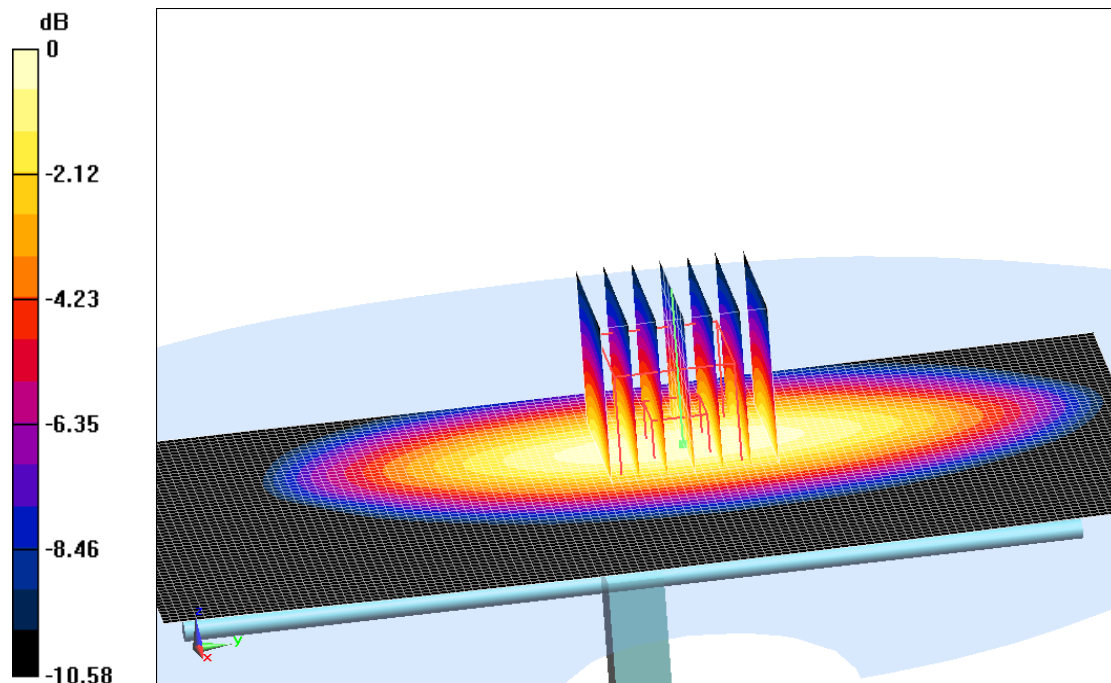
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $54.21 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

Peak SAR (extrapolated) =  $3.08 \text{ W/kg}$

**SAR(1 g) =  $2.31 \text{ W/kg}$ ; SAR(10 g) =  $1.49 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.51 \text{ W/kg}$



0 dB =  $2.51 \text{ W/kg}$  =  $4.00 \text{ dBW/kg}$

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

## 835MHz

Date: 2018-5-27

Electronics: DAE4 Sn1525

Medium: Body 850 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.988 \text{ S/m}$ ;  $\epsilon_r = 55.8$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value =  $52.53 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

**Fast SAR: SAR(1 g) =  $2.35 \text{ W/kg}$ ; SAR(10 g) =  $1.52 \text{ W/kg}$**

Maximum value of SAR (interpolated) =  $2.68 \text{ W/kg}$

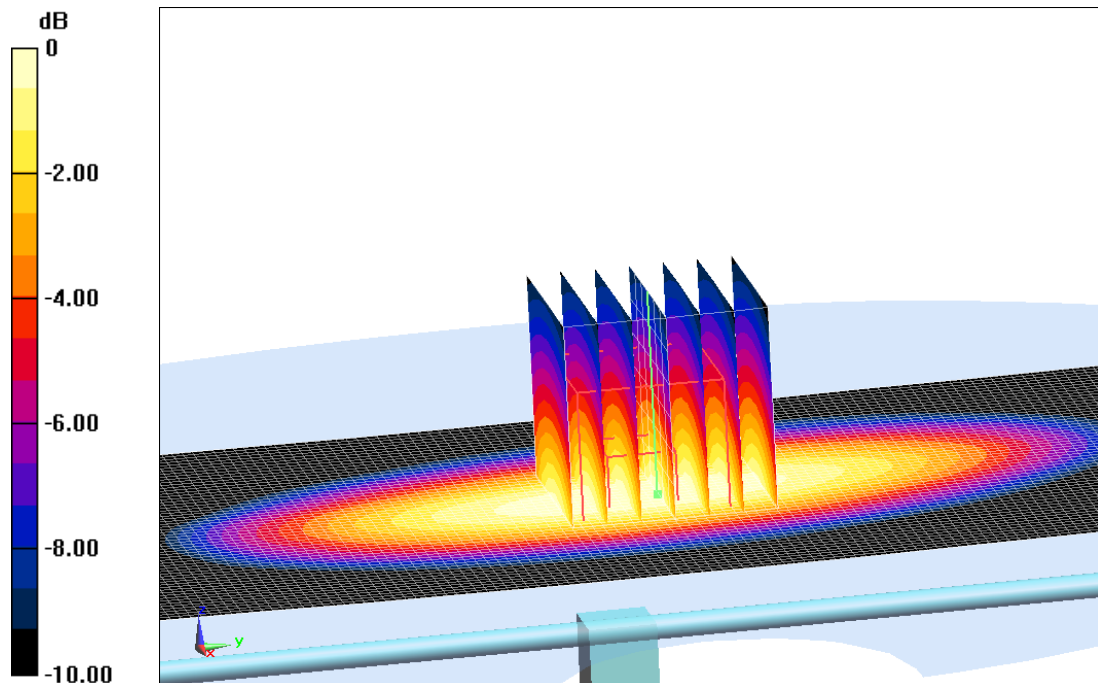
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $52.53 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

Peak SAR (extrapolated) =  $3.12 \text{ W/kg}$

**SAR(1 g) =  $2.39 \text{ W/kg}$ ; SAR(10 g) =  $1.55 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.72 \text{ W/kg}$



0 dB =  $2.72 \text{ W/kg}$  =  $4.35 \text{ dBW/kg}$

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

## 1750MHz

Date: 2018-5-29

Electronics: DAE4 Sn1525

Medium: Head 1750 MHz

Medium parameters used:  $f=1750$  MHz;  $\sigma = 1.401$  mho/m;  $\epsilon_r = 40.64$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

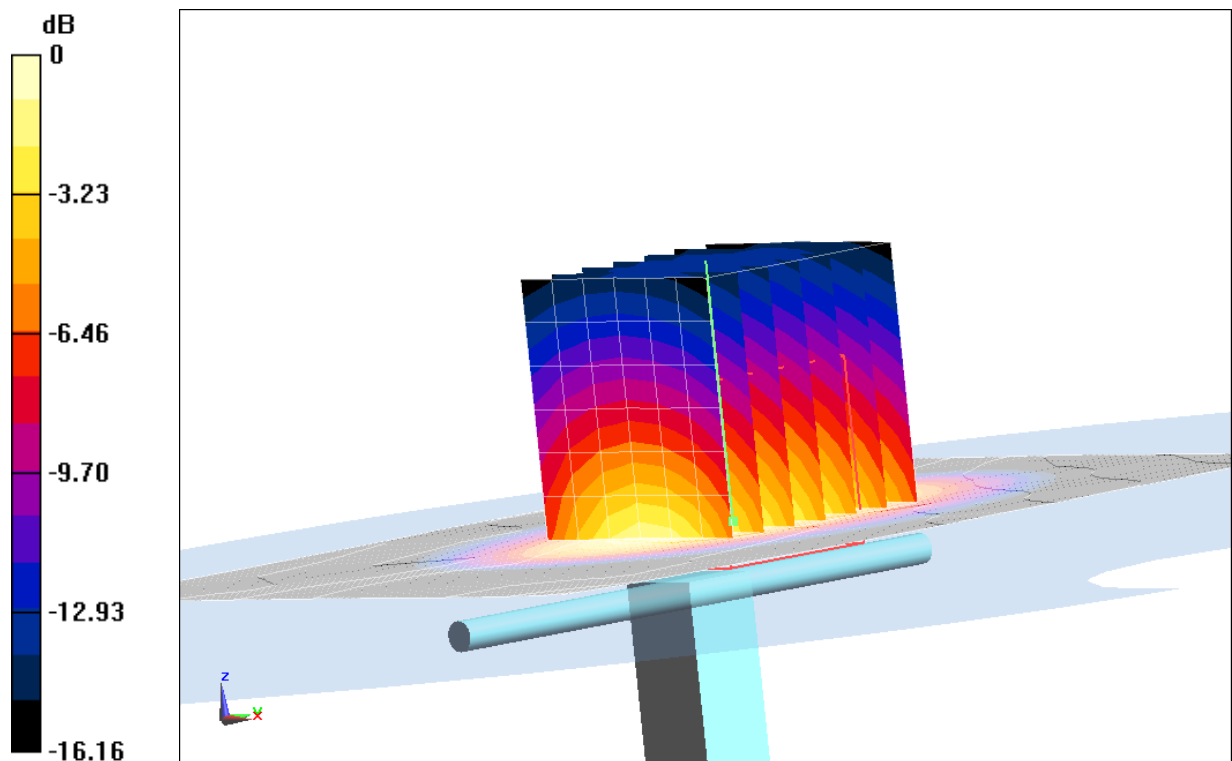
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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;  $\sigma = 1.528$  mho/m;  $\epsilon_r = 53.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

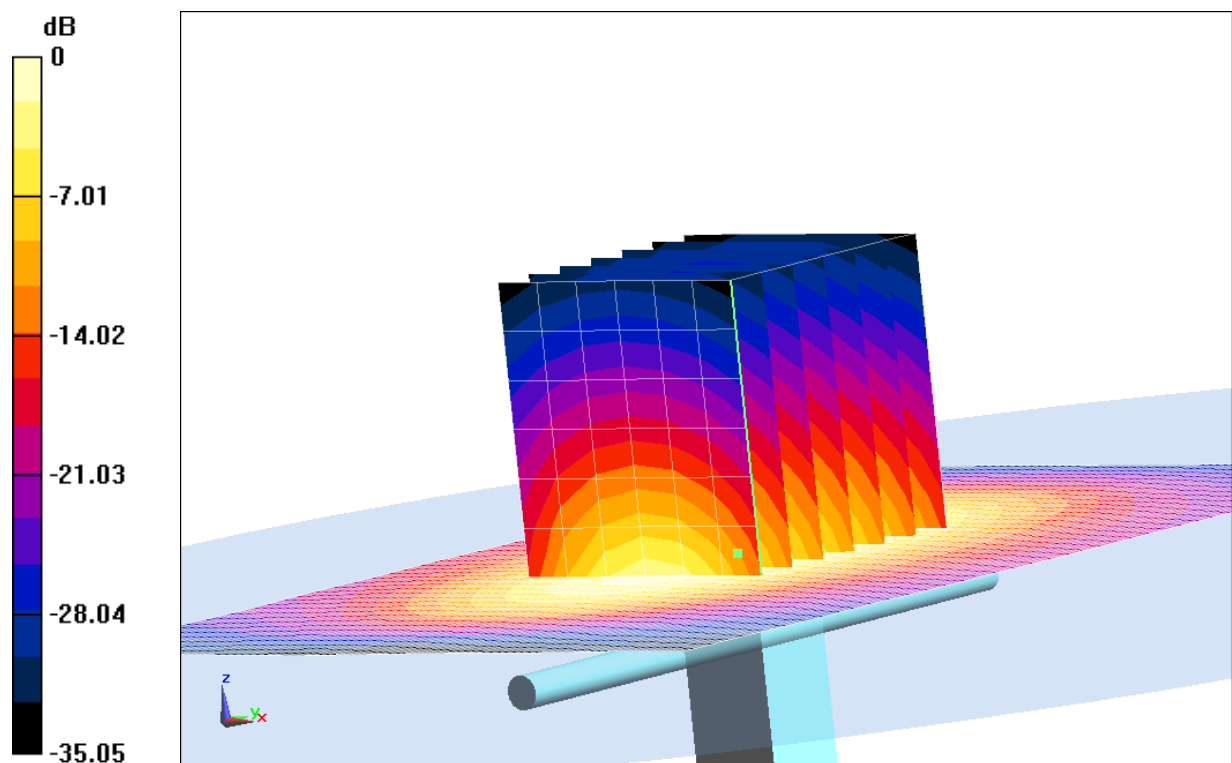
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.432 \text{ mho/m}$ ;  $\epsilon_r = 40.81$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value =  $91.02 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

**SAR(1 g) =  $10.2 \text{ W/kg}$ ; SAR(10 g) =  $5.39 \text{ W/kg}$**

Maximum value of SAR (interpolated) =  $12.4 \text{ W/kg}$

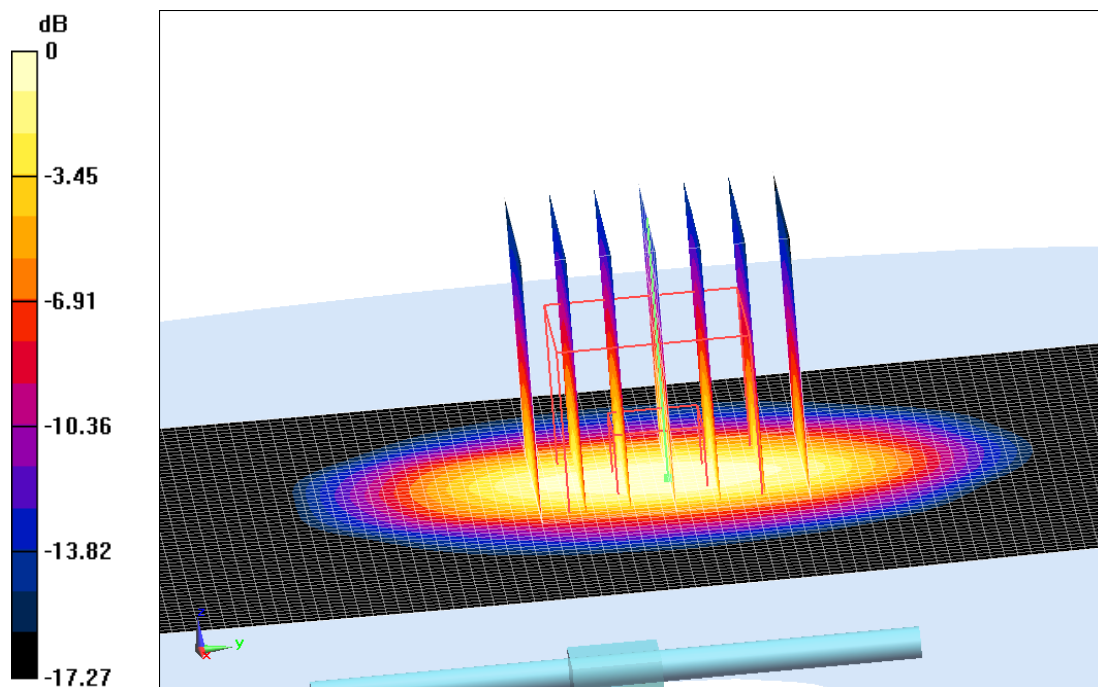
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $91.02 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $17.91 \text{ W/kg}$

**SAR(1 g) =  $10.1 \text{ W/kg}$ ; SAR(10 g) =  $5.3 \text{ W/kg}$**

Maximum value of SAR (measured) =  $12.3 \text{ W/kg}$



$0 \text{ dB} = 12.3 \text{ W/kg} = 10.90 \text{ dBW/kg}$

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



## 1900MHz

Date: 2018-5-28

Electronics: DAE4 Sn1525

Medium: Body 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.548$  S/m;  $\epsilon_r = 52.94$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

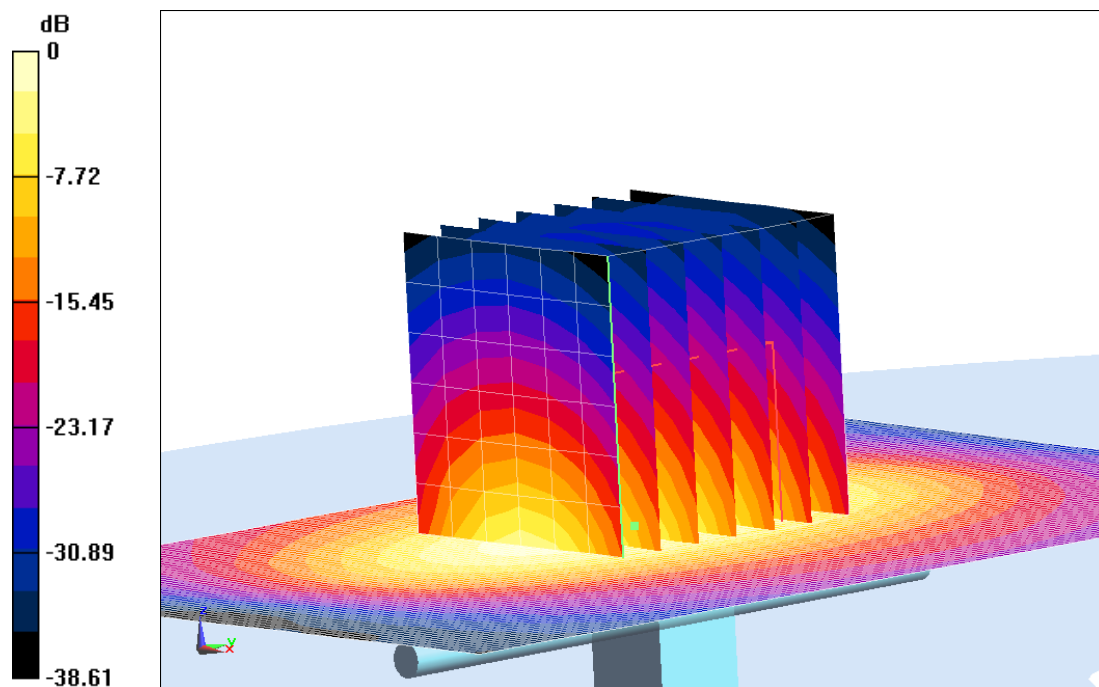
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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;  $\sigma = 1.834$  mho/m;  $\epsilon_r = 38.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

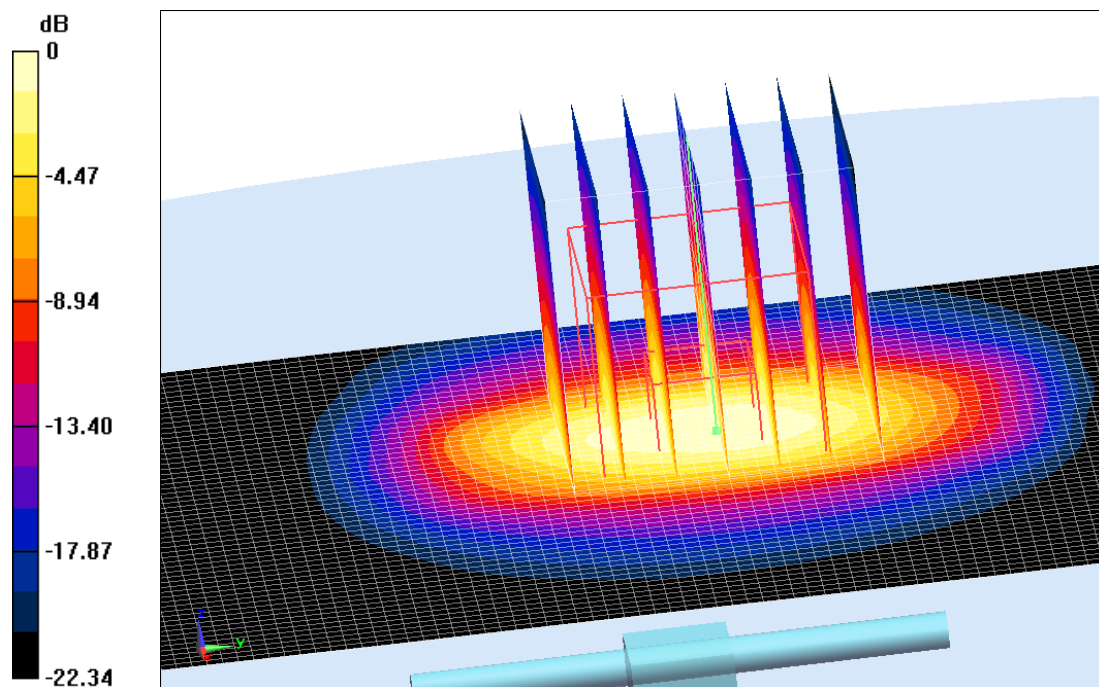
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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;  $\sigma = 1.962$  S/m;  $\epsilon_r = 52.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

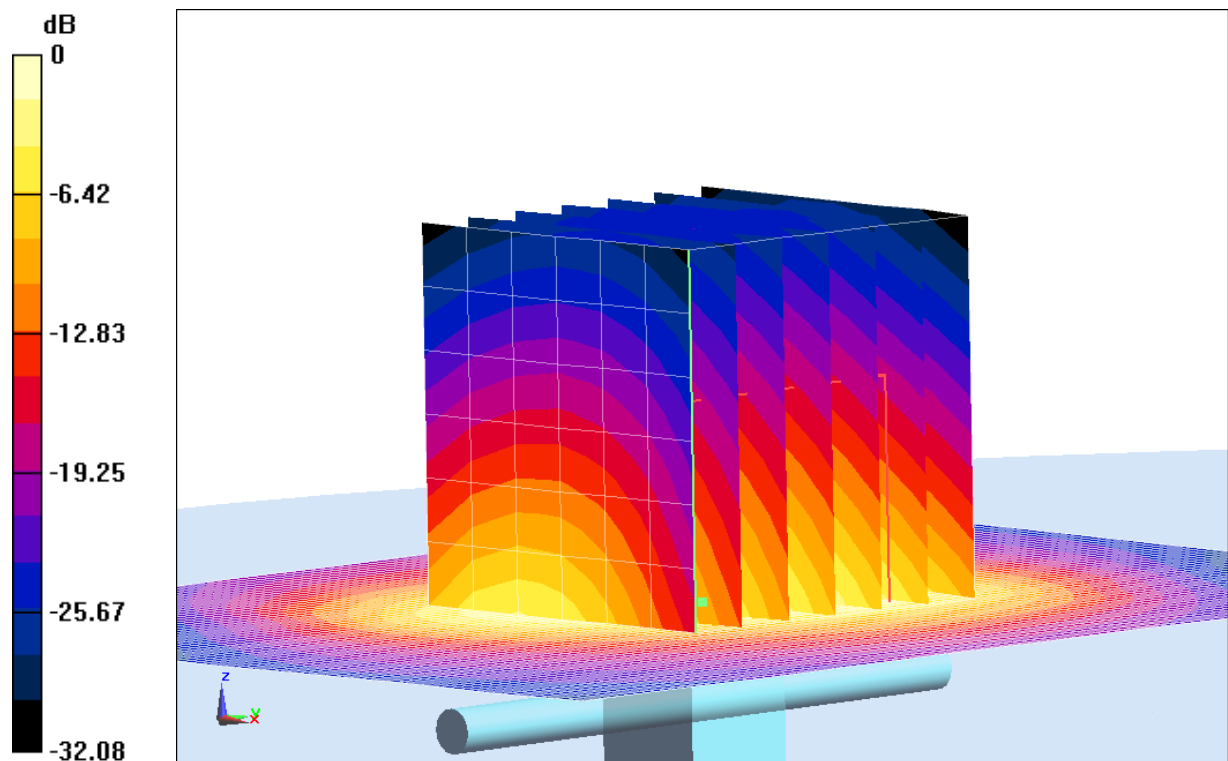
**System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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;  $\sigma = 1.928$  mho/m;  $\epsilon_r = 38.27$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

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

Probe: EX3DV4 – SN7464 ConvF(7.76, 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

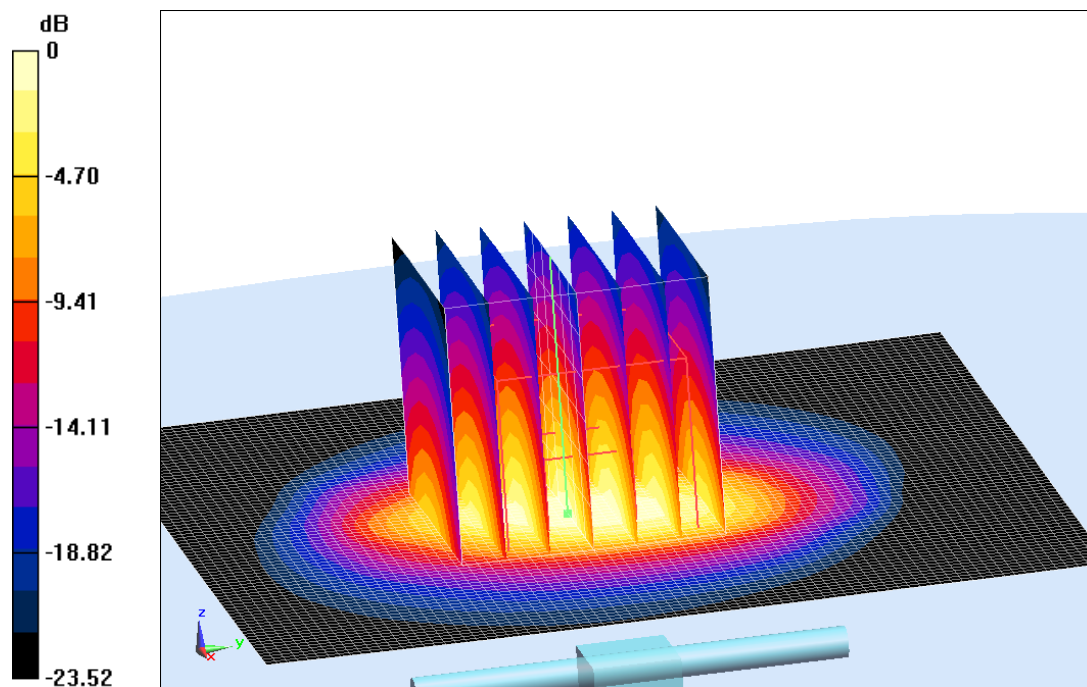
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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;  $\sigma = 2.24$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

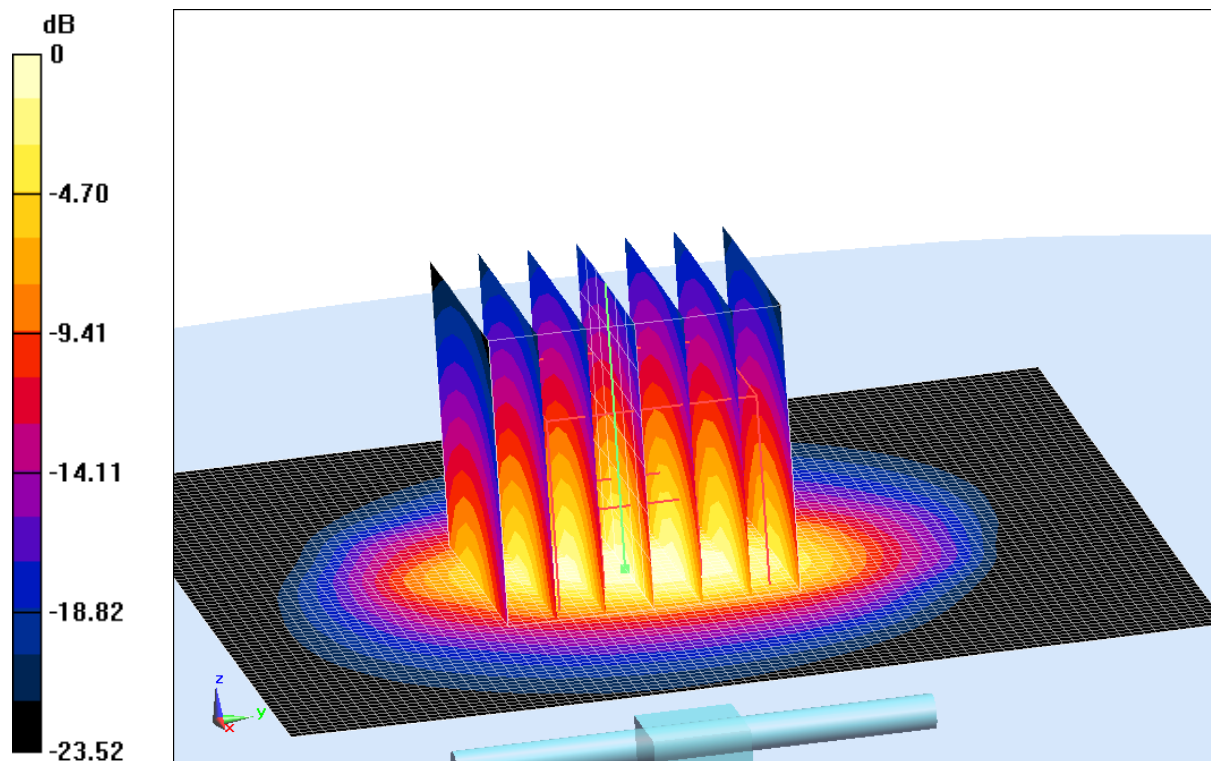
**System Validation /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

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;  $\sigma = 4.726$  mho/m;  $\epsilon_r = 36.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

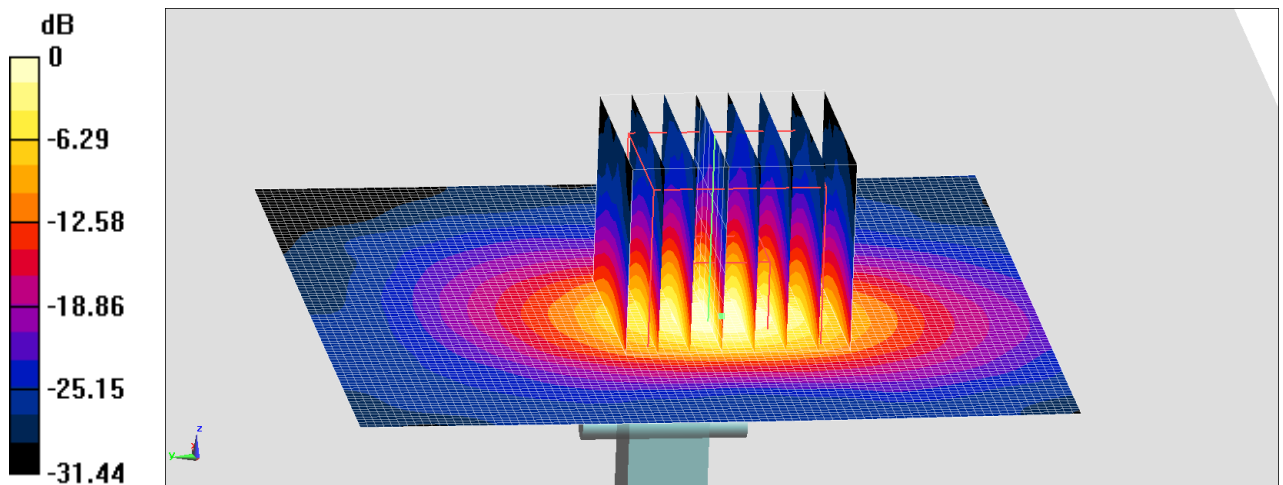
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,  
dz=1.4mm

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;  $\epsilon_r = 49.67$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

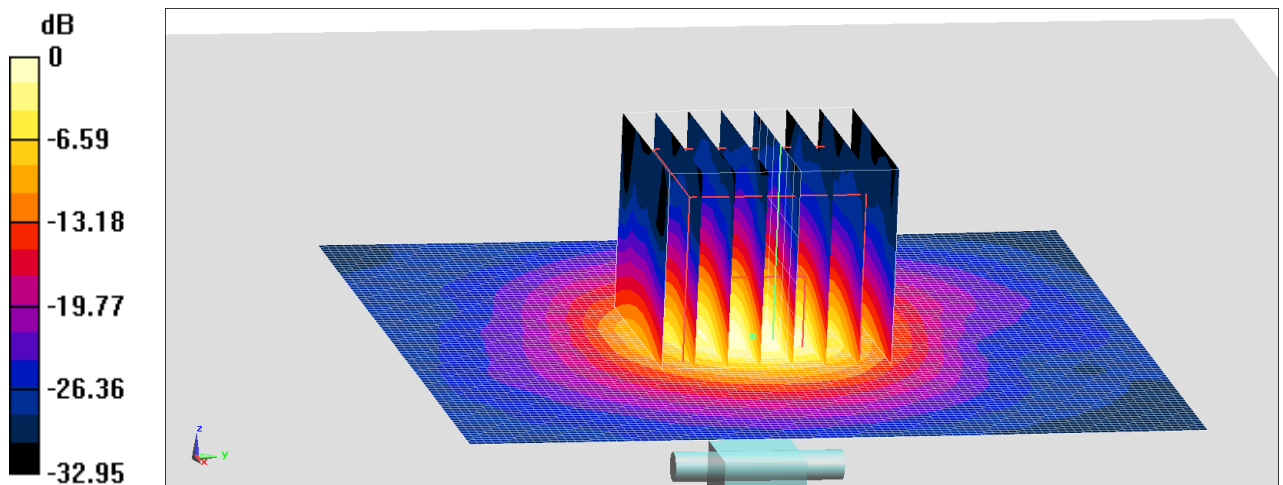
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

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:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.828 \text{ mho/m}$ ;  $\epsilon_r = 36.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (interpolated) =  $19.3 \text{ W/kg}$

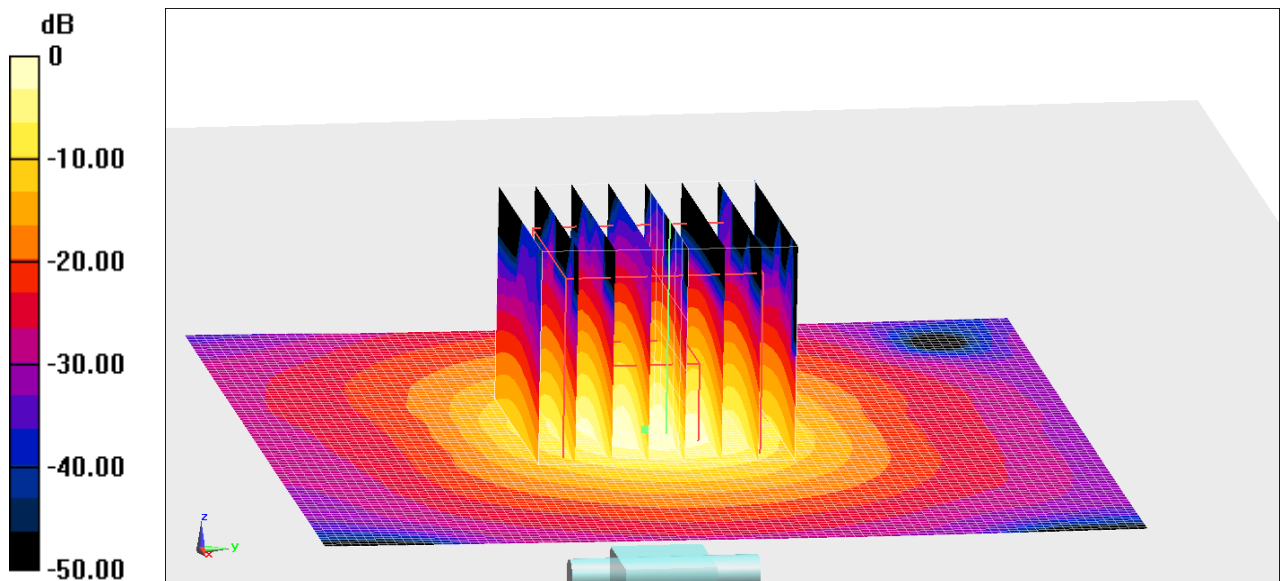
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  
 $dz=1.4\text{mm}$

Reference Value =  $73.64 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Peak SAR (extrapolated) =  $35.42 \text{ W/kg}$

**SAR(1 g) =  $8.25 \text{ W/kg}$ ; SAR(10 g) =  $2.36 \text{ W/kg}$**

Maximum value of SAR (measured) =  $19.5 \text{ W/kg}$



0 dB =  $19.5 \text{ W/kg} = 12.90 \text{ dBW/kg}$

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



## 5300MHz

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Body 5 GHz

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.311 \text{ mho/m}$ ;  $\epsilon_r = 47.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (interpolated) =  $18.4 \text{ W/kg}$

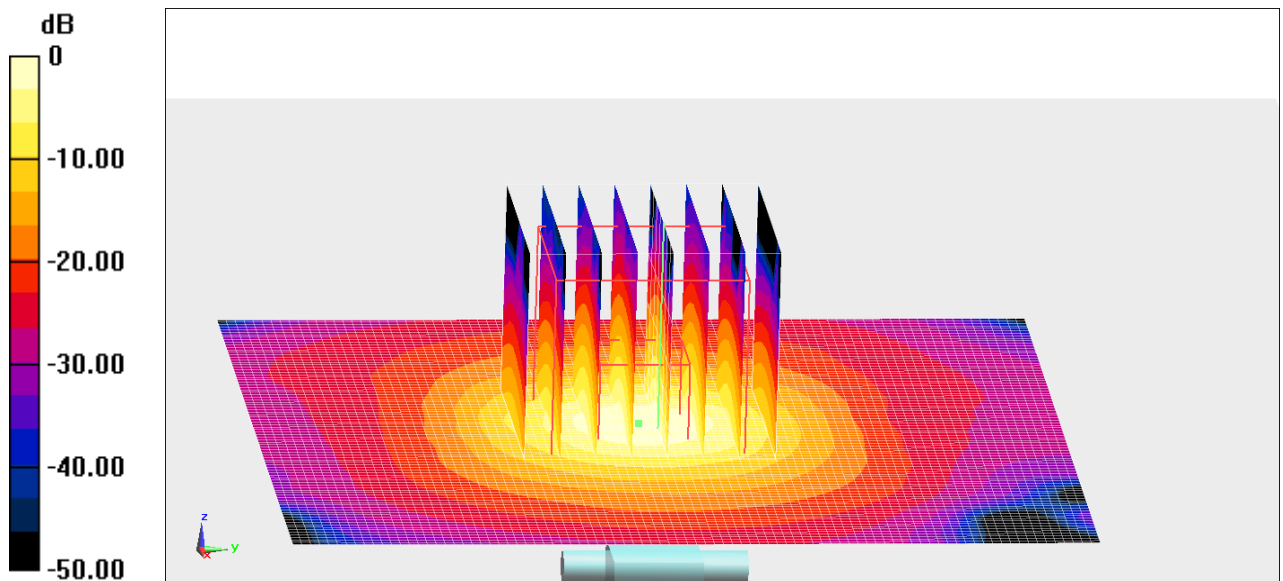
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  
 $dz=1.4\text{mm}$

Reference Value =  $64.17 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

Peak SAR (extrapolated) =  $31.54 \text{ W/kg}$

**SAR(1 g) =  $7.55 \text{ W/kg}$ ; SAR(10 g) =  $2.11 \text{ W/kg}$**

Maximum value of SAR (measured) =  $18.2 \text{ W/kg}$



$0 \text{ dB} = 18.2 \text{ W/kg} = 12.60 \text{ dBW/kg}$

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

## 5600MHz

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Head 5 GHz

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.171$  mho/m;  $\epsilon_r = 36.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

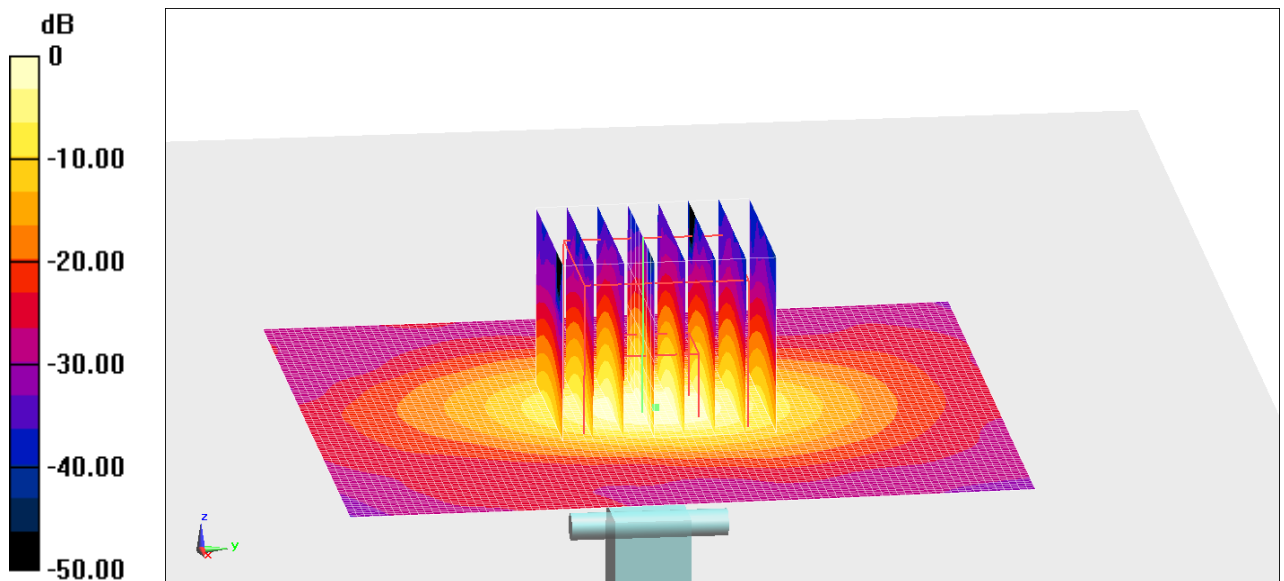
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

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;  $\sigma = 5.729$  mho/m;  $\epsilon_r = 47.04$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

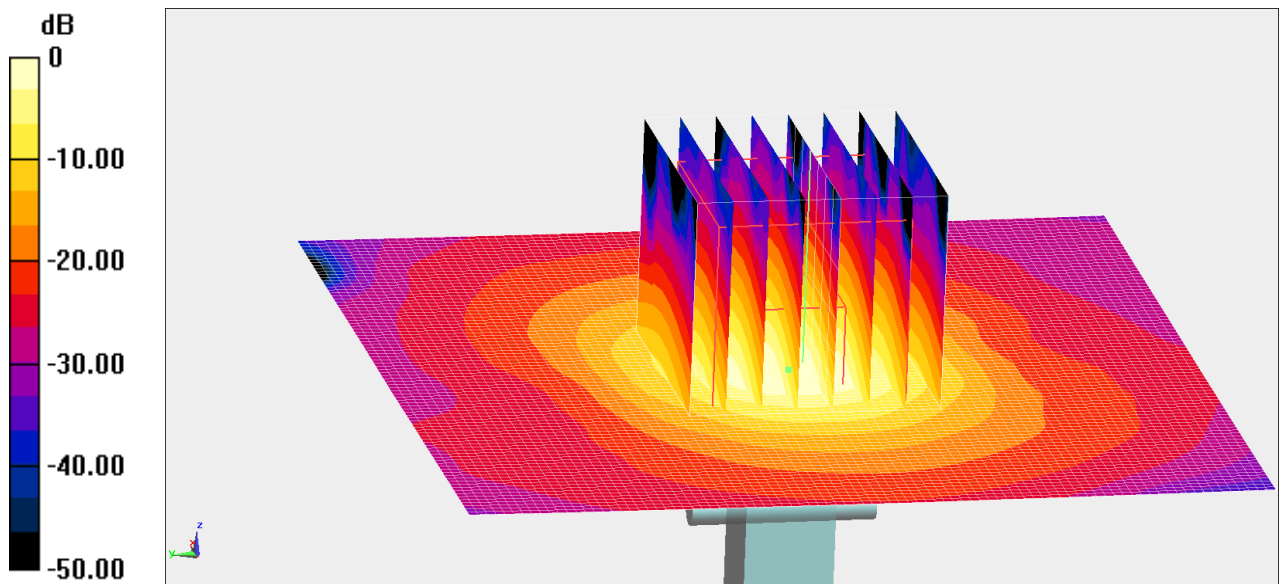
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.62 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:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.381 \text{ mho/m}$ ;  $\epsilon_r = 35.81$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (interpolated) =  $20.1 \text{ W/kg}$

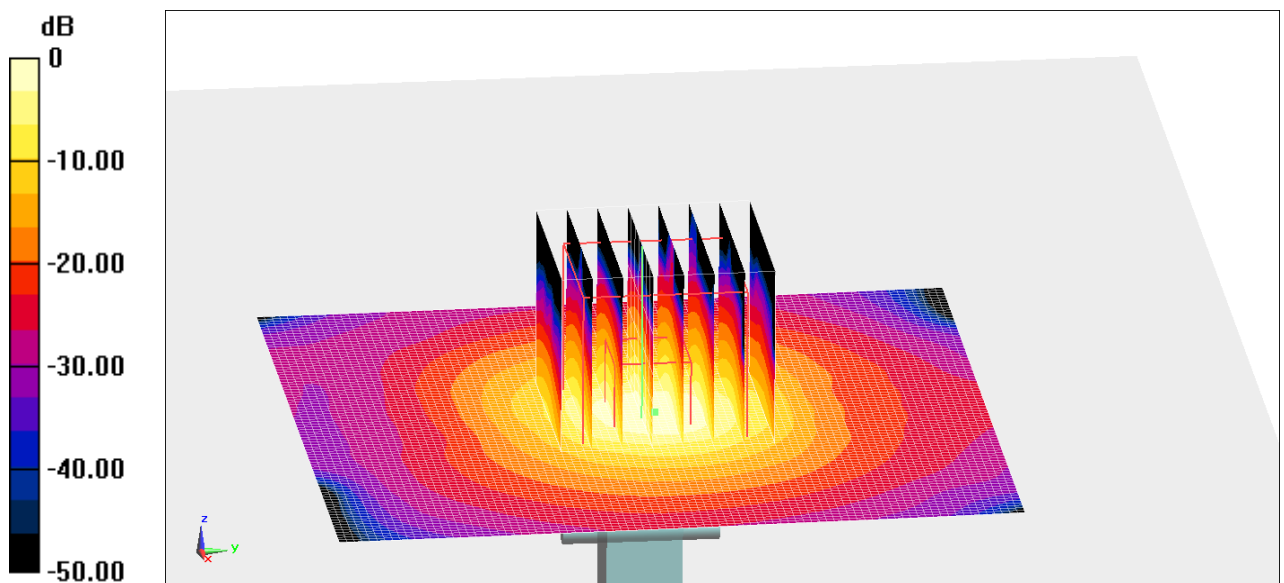
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  
 $dz=1.4\text{mm}$

Reference Value =  $70.92 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$

Peak SAR (extrapolated) =  $39.95 \text{ W/kg}$

**SAR(1 g) =  $8.01 \text{ W/kg}$ ; SAR(10 g) =  $2.28 \text{ W/kg}$**

Maximum value of SAR (measured) =  $20.3 \text{ W/kg}$



0 dB =  $20.3 \text{ W/kg}$  =  $13.07 \text{ dBW/kg}$

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

## 5800MHz

Date: 2018-5-31

Electronics: DAE4 Sn1525

Medium: Body 5 GHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.008 \text{ mho/m}$ ;  $\epsilon_r = 46.64$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.9^\circ\text{C}$       Liquid Temperature:  $22.5^\circ\text{C}$

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:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (interpolated) =  $18.6 \text{ W/kg}$

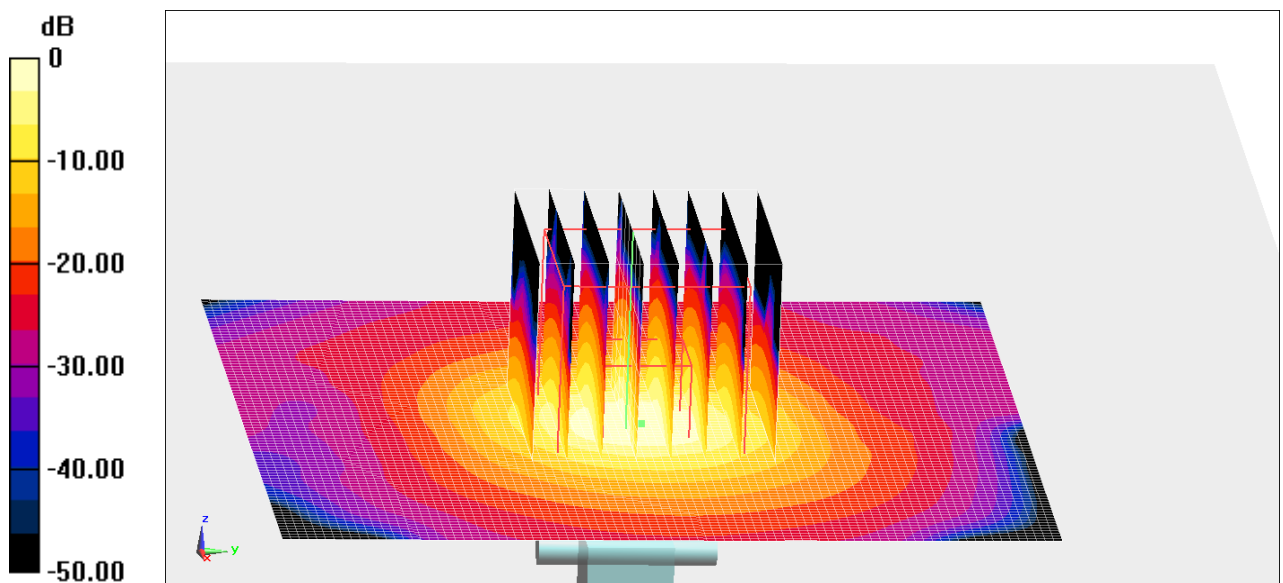
**System Validation /Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  
 $dz=1.4\text{mm}$

Reference Value =  $67.15 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $35.63 \text{ W/kg}$

**SAR(1 g) =  $7.65 \text{ W/kg}$ ; SAR(10 g) =  $2.15 \text{ W/kg}$**

Maximum value of SAR (measured) =  $18.8 \text{ W/kg}$



0 dB =  $18.8 \text{ W/kg} = 12.74 \text{ dBW/kg}$

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