

## Appendix B - System Check Plots

Date: 2018/3/22

### Dipole 750 MHz\_SN:1015

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

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.969 \text{ S/m}$ ;  $\epsilon_r = 57.159$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $21.4^\circ\text{C}$ ; Liquid temperature:  $21.7^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.96, 9.96, 9.96); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (41x141x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.73 \text{ W/kg}$

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

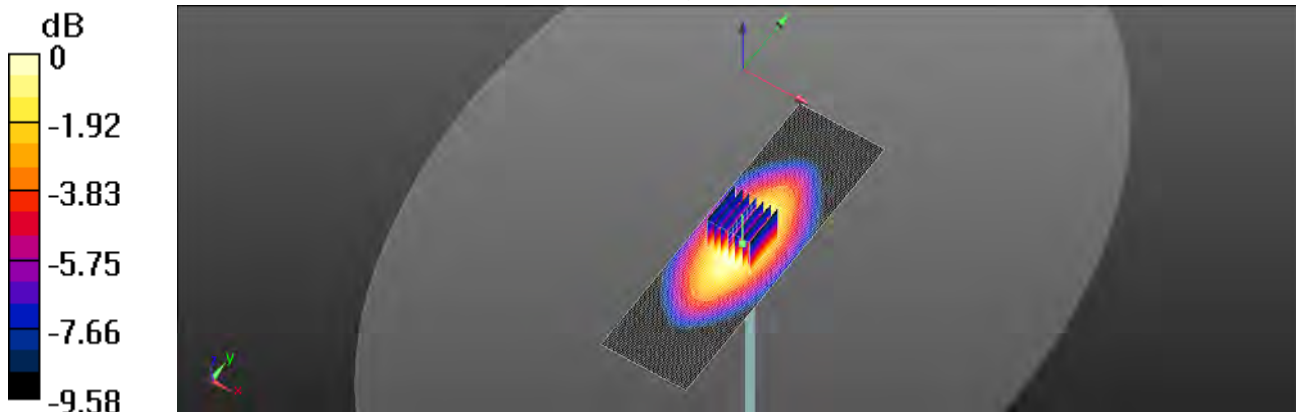
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $53.95 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Peak SAR (extrapolated) =  $3.17 \text{ W/kg}$

**SAR(1 g) =  $2.19 \text{ W/kg}$ ; SAR(10 g) =  $1.46 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.73 \text{ W/kg}$



0 dB =  $2.73 \text{ W/kg}$  =  $4.36 \text{ dBW/kg}$

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Date: 2018/3/23

### Dipole 835 MHz\_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.974 \text{ S/m}$ ;  $\epsilon_r = 52.929$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.65, 9.65, 9.65); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (41x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.97 \text{ W/kg}$

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

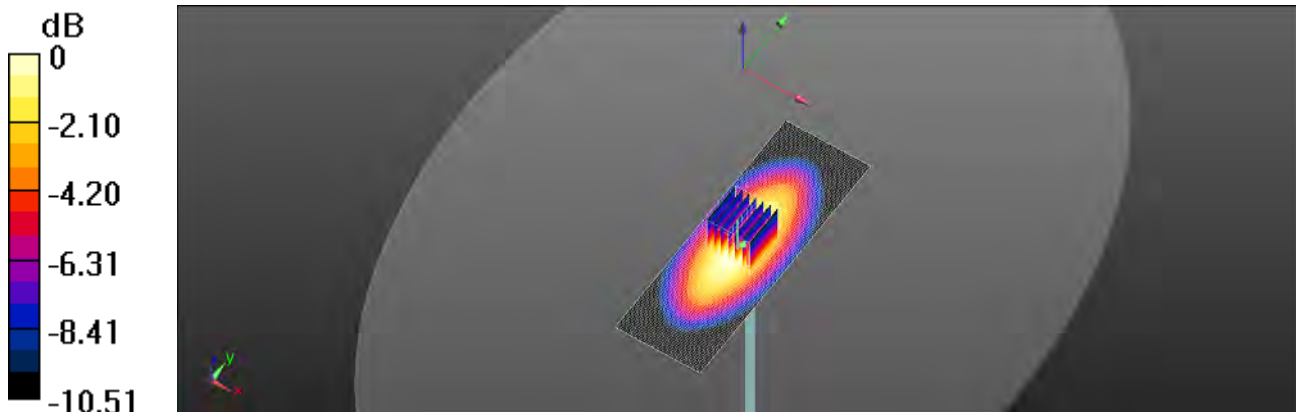
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $56.22 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$

Peak SAR (extrapolated) =  $3.49 \text{ W/kg}$

**SAR(1 g) =  $2.34 \text{ W/kg}$ ; SAR(10 g) =  $1.53 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.97 \text{ W/kg}$



0 dB =  $2.97 \text{ W/kg}$  =  $4.73 \text{ dBW/kg}$

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Date: 2018/3/26

### Dipole 1750 MHz\_SN:1008

Communication System: CW; Frequency: 1750 MHz Duty Cycle: 1:1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.441$  S/m;  $\epsilon_r = 54.799$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 22.2°C; Liquid temperature: 22.5°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.43, 8.43, 8.43); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.3 W/kg

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

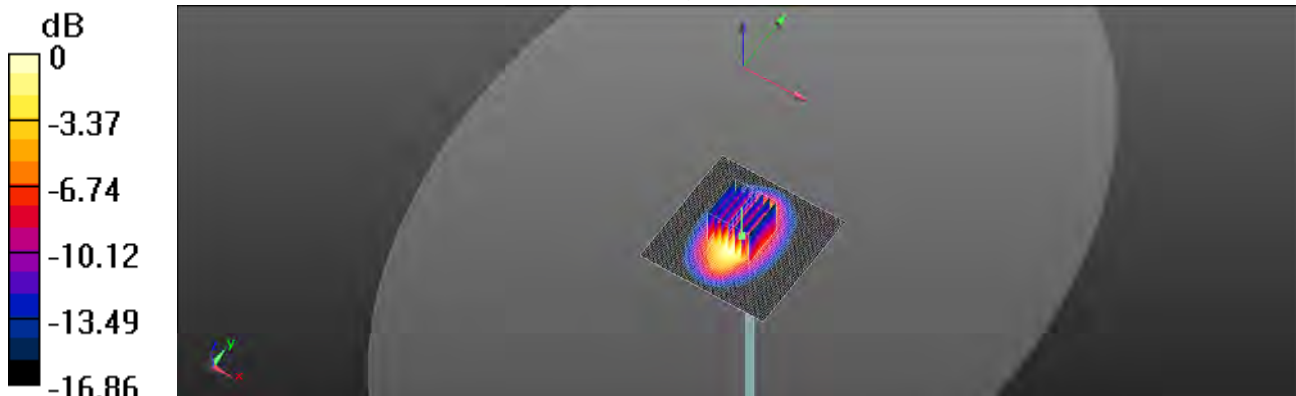
dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.12 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.9 W/kg

**SAR(1 g) = 9.31 W/kg; SAR(10 g) = 4.89 W/kg**

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg = 11.24 dBW/kg

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Date: 2018/3/27

### Dipole 1900 MHz\_SN:5d173

Communication System: CW; Frequency: 1900 MHz Duty Cycle: 1:1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.552$  S/m;  $\epsilon_r = 54.215$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.8°C; Liquid temperature: 22.3°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.12, 8.12, 8.12); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.0 W/kg

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

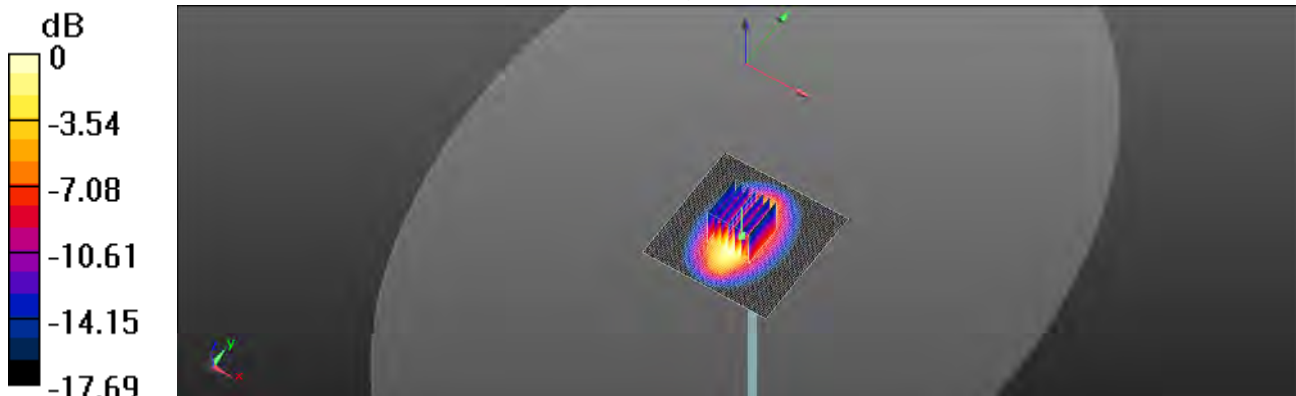
dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.70 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.9 W/kg

**SAR(1 g) = 9.67 W/kg; SAR(10 g) = 4.99 W/kg**

Maximum value of SAR (measured) = 14.0 W/kg



0 dB = 14.0 W/kg = 11.46 dBW/kg

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Date: 2018/3/28

### Dipole 2600 MHz\_SN:1005

Communication System: CW; Frequency: 2600 MHz

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.241$  S/m;  $\epsilon_r = 51.262$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.17, 7.17, 7.17); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.5 W/kg

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

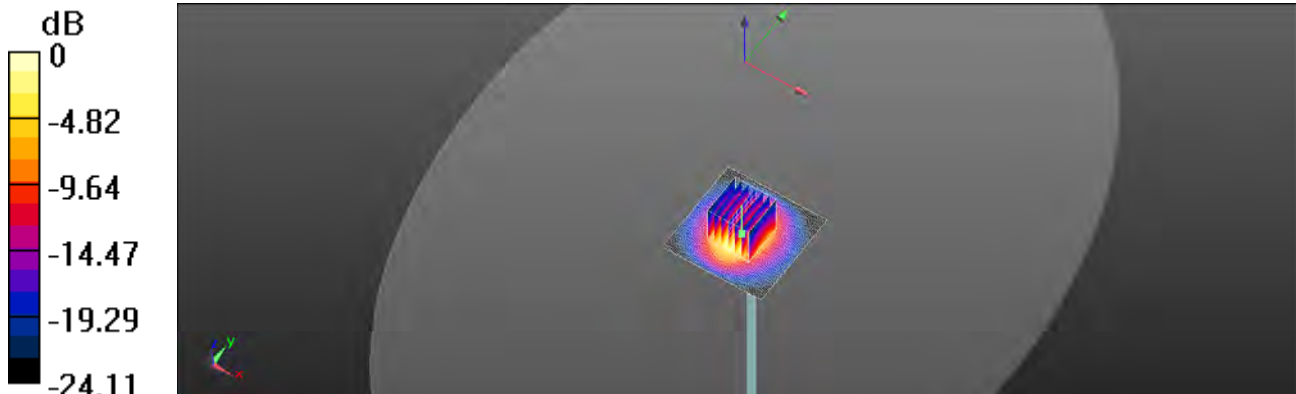
dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.27 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 31.0 W/kg

**SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.21 W/kg**

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg

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Date: 2018/4/17

### Dipole 750 MHz\_SN 1015\_Body

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.975 \text{ S/m}$ ;  $\epsilon_r = 57.292$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.96, 9.96, 9.96); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (41x141x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.52 \text{ W/kg}$

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

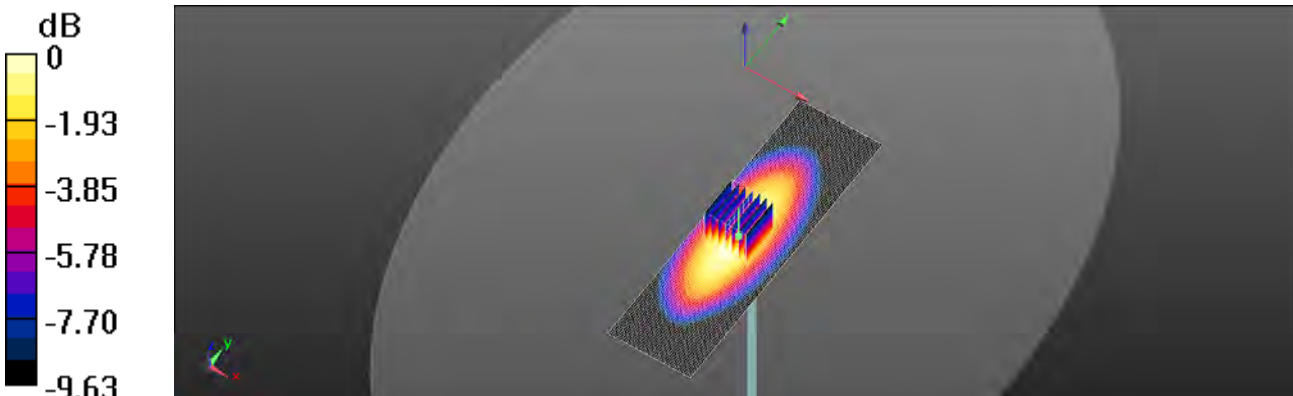
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $50.69 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

Peak SAR (extrapolated) =  $2.98 \text{ W/kg}$

**SAR(1 g) =  $2.06 \text{ W/kg}$ ; SAR(10 g) =  $1.37 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.57 \text{ W/kg}$



0 dB =  $2.57 \text{ W/kg} = 4.10 \text{ dBW/kg}$

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Date: 2018/4/17

### Dipole 835 MHz\_SN 4d063\_Body

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.974 \text{ S/m}$ ;  $\epsilon_r = 52.914$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section  
Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.6^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.65, 9.65, 9.65); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (41x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.89 \text{ W/kg}$

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

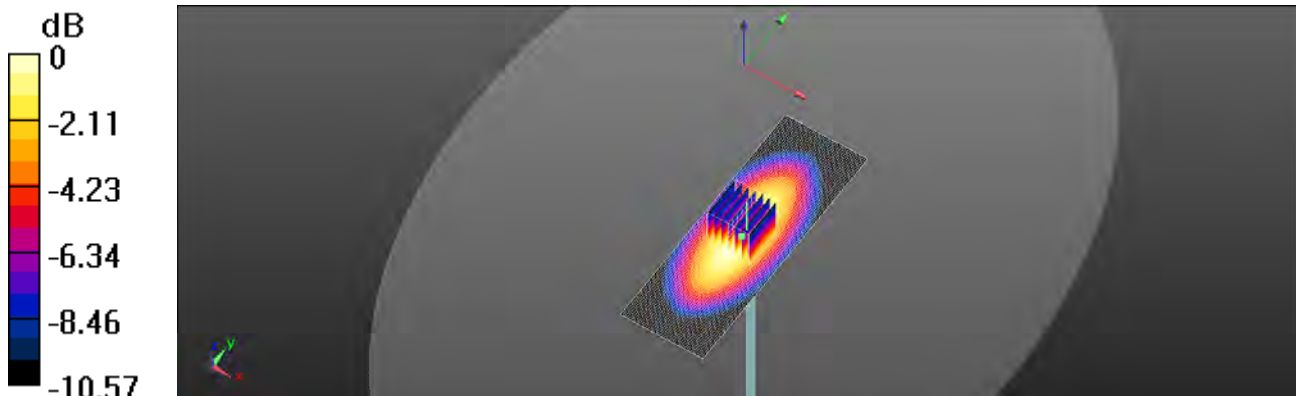
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $55.72 \text{ V/m}$ ; Power Drift =  $0.04 \text{ dB}$

Peak SAR (extrapolated) =  $3.42 \text{ W/kg}$

**SAR(1 g) =  $2.29 \text{ W/kg}$ ; SAR(10 g) =  $1.5 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.91 \text{ W/kg}$



0 dB =  $2.91 \text{ W/kg} = 4.64 \text{ dBW/kg}$

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Date: 2018/4/18

### Dipole 1750 MHz\_SN 1008\_Body

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.44$  S/m;  $\epsilon_r = 54.799$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.8°C; Liquid temperature: 22.3°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.43, 8.43, 8.43); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.7 W/kg

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

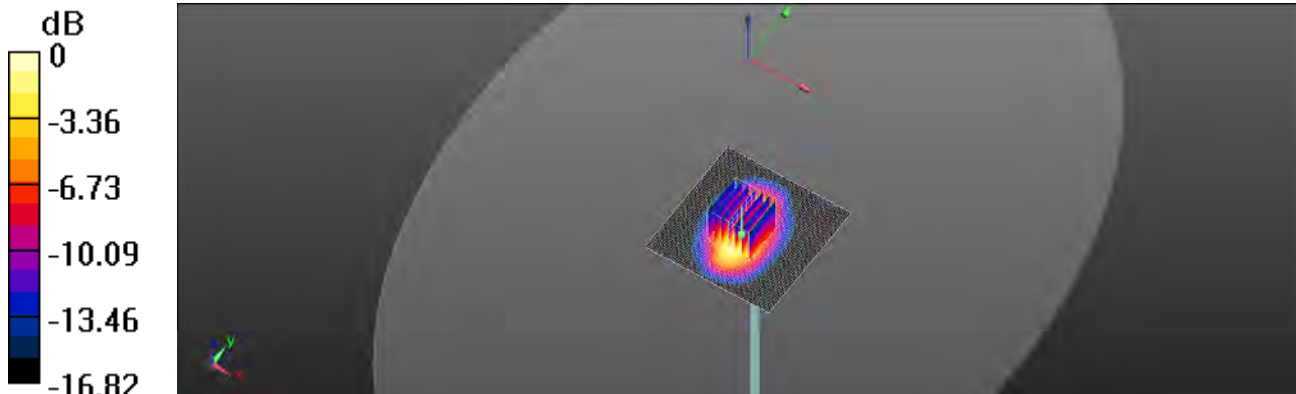
dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.38 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.0 W/kg

**SAR(1 g) = 8.85 W/kg; SAR(10 g) = 4.67 W/kg**

Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

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Date: 2018/4/18

### Dipole 1900 MHz\_SN 5d173\_Body

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

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.552 \text{ S/m}$ ;  $\epsilon_r = 54.215$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature:  $21.8^\circ\text{C}$ ; Liquid temperature:  $22.3^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.12, 8.12, 8.12); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) =  $14.0 \text{ W/kg}$

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

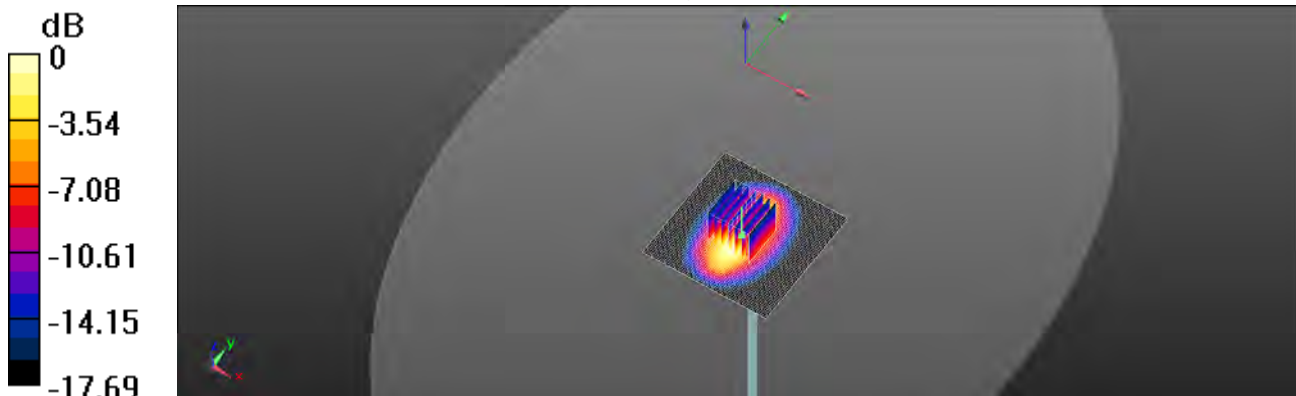
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $95.73 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

Peak SAR (extrapolated) =  $17.9 \text{ W/kg}$

**SAR(1 g) =  $9.67 \text{ W/kg}$ ; SAR(10 g) =  $4.99 \text{ W/kg}$**

Maximum value of SAR (measured) =  $14.0 \text{ W/kg}$



0 dB =  $14.0 \text{ W/kg}$  =  $11.46 \text{ dBW/kg}$

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Date: 2018/4/18

### Dipole 2600 MHz\_SN 1005\_Body

Communication System: LTE; Frequency: 2610 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2610$  MHz;  $\sigma = 2.234$  S/m;  $\epsilon_r = 50.771$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Ambient temperature: 21.8°C; Liquid temperature: 22.3°C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.17, 7.17, 7.17); Calibrated: 2017/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2017/4/28
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

**Configuration/Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.5 W/kg

**Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

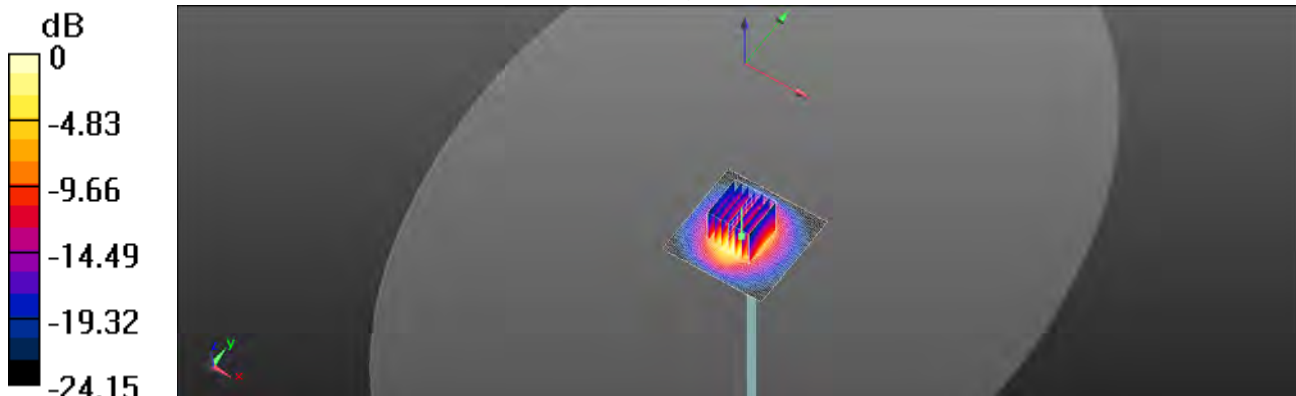
dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.22 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 29.8 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 5.97 W/kg**

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.34 dBW/kg

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