

## 20140508\_System Check\_Dipole2450 sn869

Frequency: 2450 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2450$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.06, 6.06, 6.06); Calibrated: 9/27/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/Pin=100mW, d=10mm/Area Scan (8x9x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.46 mW/g

**Body/Pin=100mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

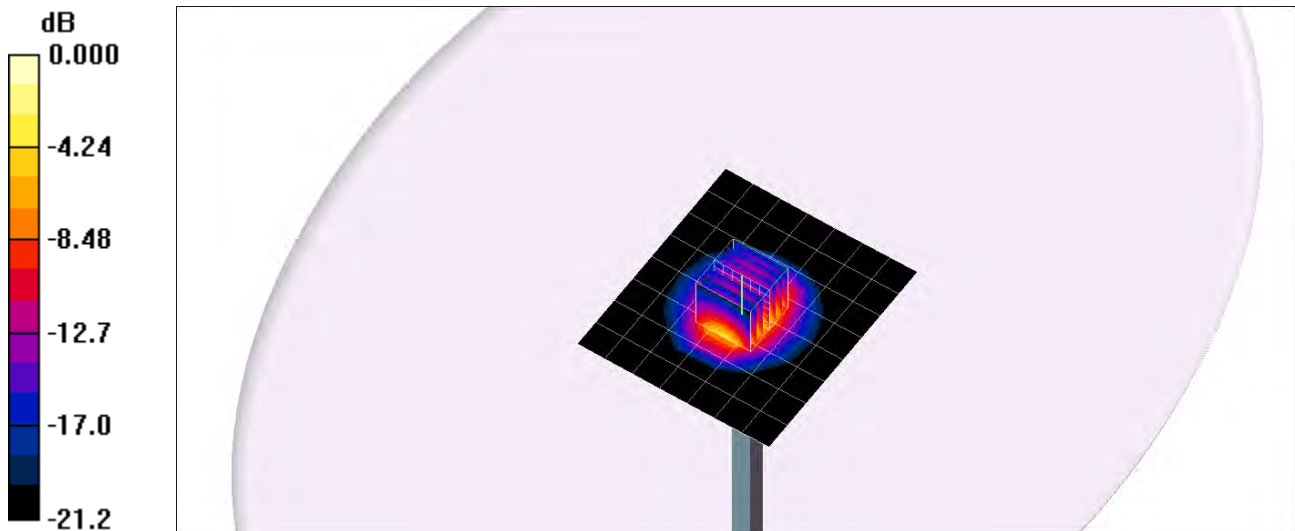
Reference Value = 62.2 V/m; Power Drift = 0.014 dB

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(1 g) = 5.08 mW/g; SAR(10 g) = 2.4 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.58 mW/g



0 dB = 7.58mW/g

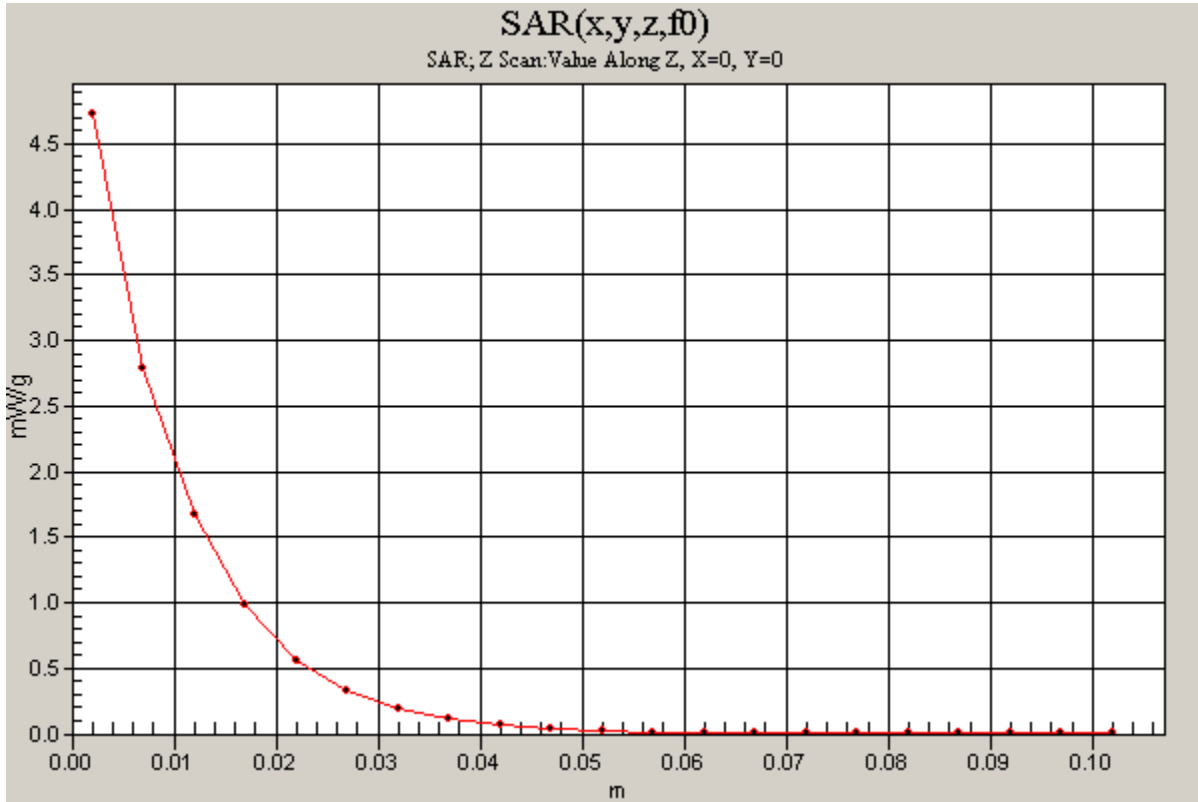
### 20140508\_System Check\_Dipole2450 sn869

Frequency: 2450 MHz; Duty Cycle: 1:1

**Body/Pin=100mW, d=10mm/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.73 mW/g



## 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5200 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5200$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5200MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.1 mW/g

**Body/5200MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 54.4 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 31.1 W/kg

Peak SAR (extrapolated) = 31.1 W/kg

**SAR(1 g) = 7.53 mW/g; SAR(10 g) = 2.12 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.3 mW/g



0 dB = 12.8mW/g

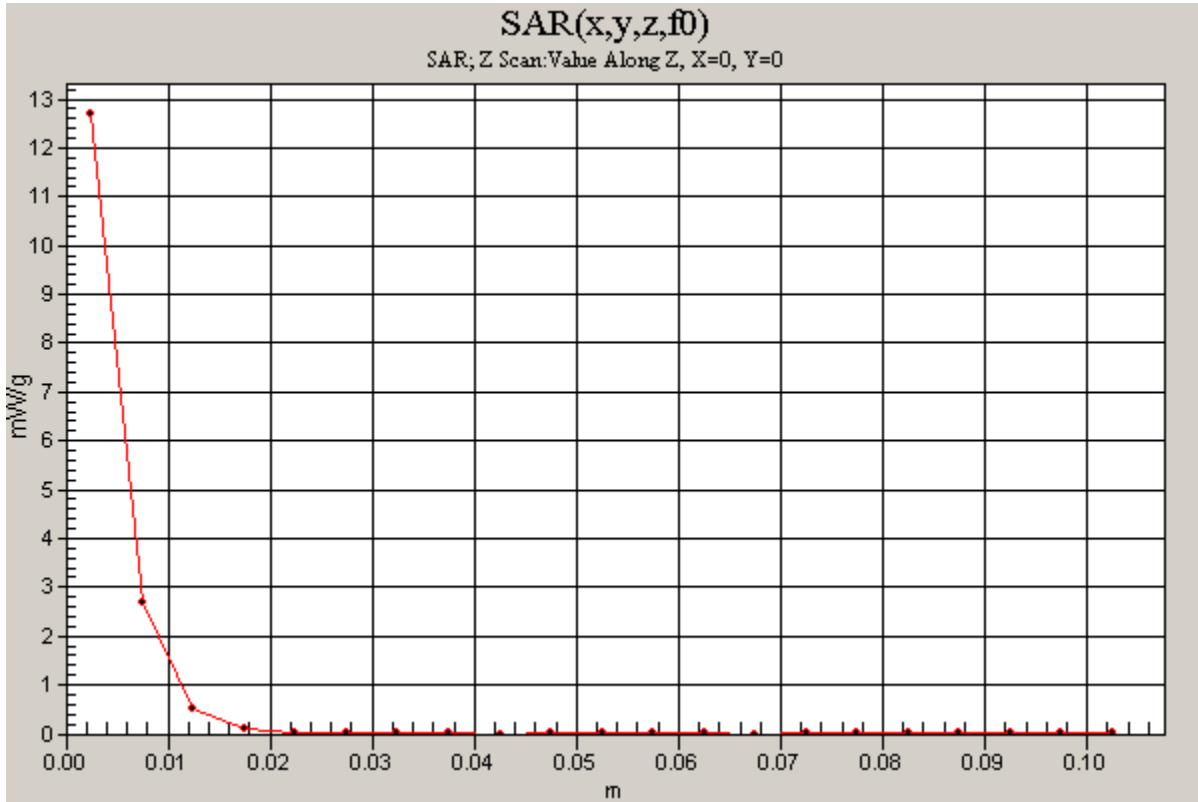
### 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5200 MHz; Duty Cycle: 1:1

**Body/5200MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.3 mW/g



## 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5300MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.5 mW/g

**Body/5300MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 53.0 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 31.8 W/kg

Peak SAR (extrapolated) = 31.8 W/kg

**SAR(1 g) = 7.64 mW/g; SAR(10 g) = 2.15 mW/g**

Maximum value of SAR (measured) = 12.7 mW/g

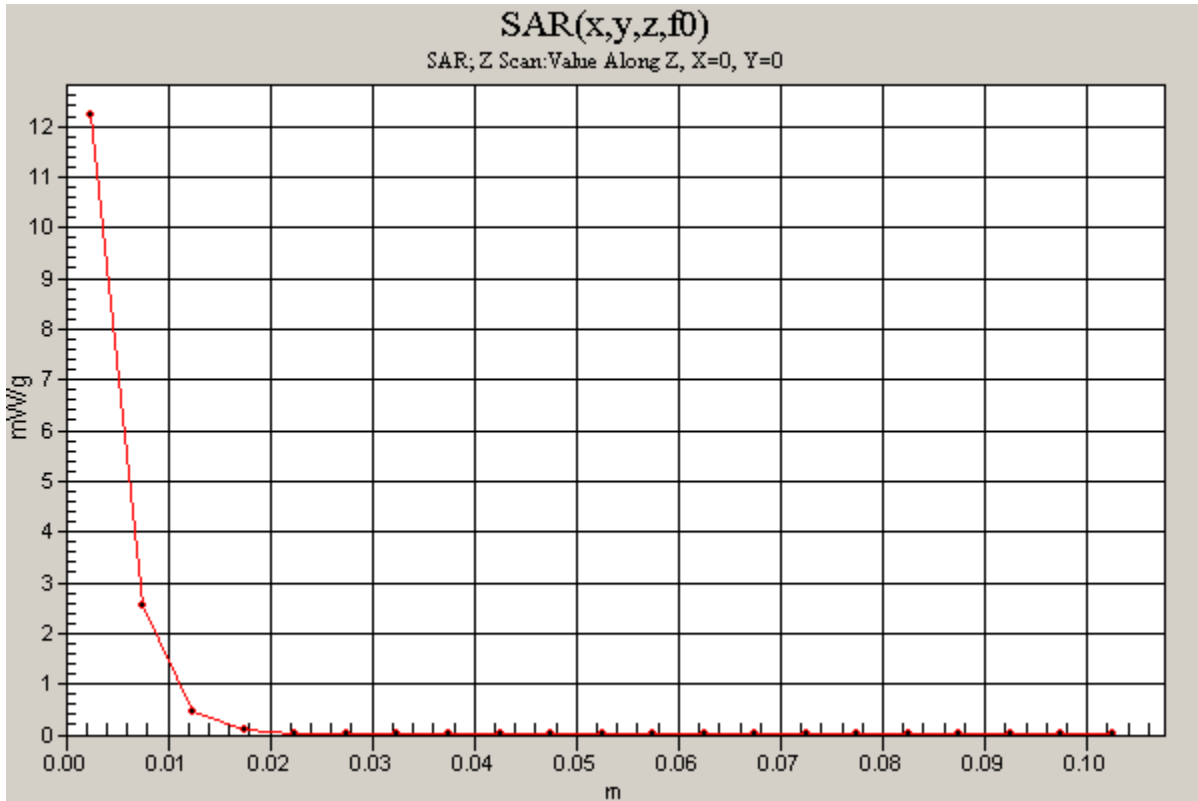


0 dB = 12.7mW/g

### 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5300 MHz; Duty Cycle: 1:1

**Body/5300MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 12.2 mW/g



## 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5600 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5600.5$  MHz;  $\sigma = 5.69$  mho/m;  $\epsilon_r = 49$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5600MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 12.0 mW/g

**Body/5600MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 50.4 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 33.3 W/kg

**SAR(1 g) = 8.07 mW/g; SAR(10 g) = 2.27 mW/g**

Maximum value of SAR (measured) = 13.6 mW/g

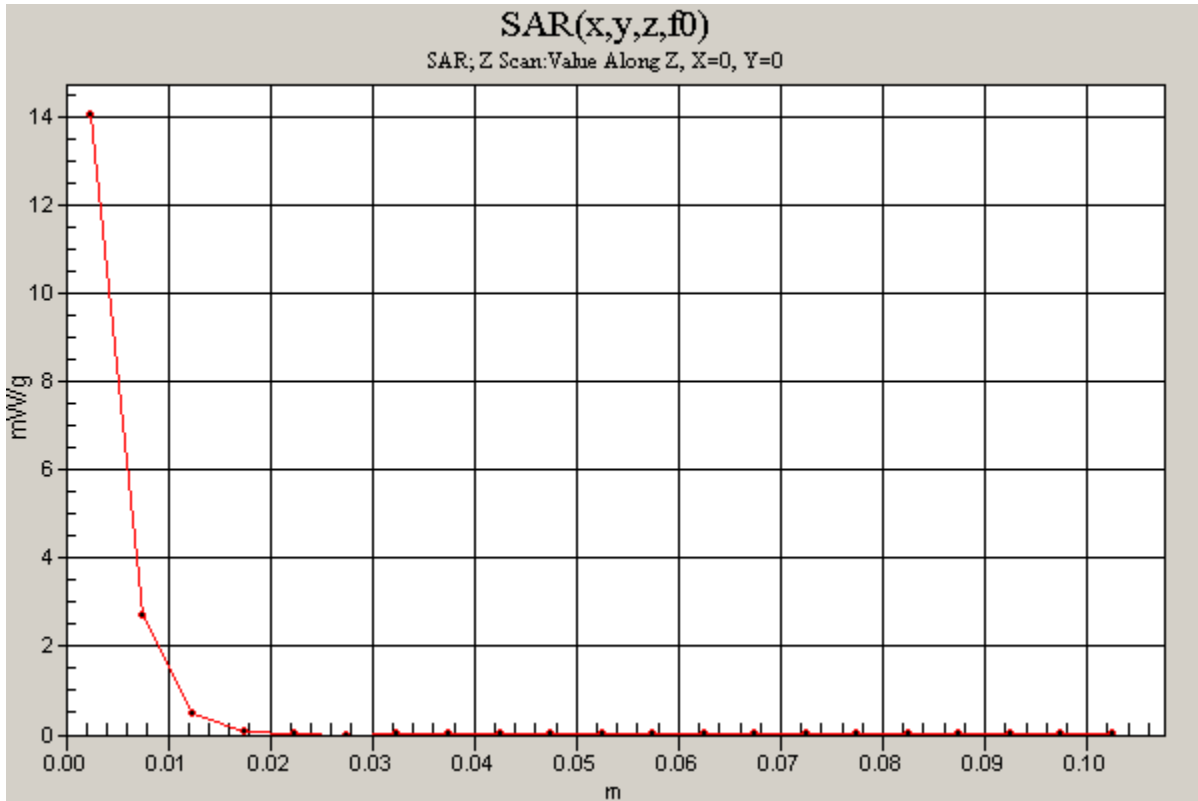


0 dB = 13.6mW/g

### 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5600 MHz; Duty Cycle: 1:1

**Body/5600MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 14.0 mW/g





**20140510\_System check\_Diple5GHzv2 SN1004**

Frequency: 5800 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5800$  MHz;  $\sigma = 5.95$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5800MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 14.1 mW/g

**Body/5800MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm,

dy=4mm, dz=2.5mm

Reference Value = 50.7 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 32.8 W/kg

**SAR(1 g) = 7.63 mW/g; SAR(10 g) = 2.14 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.4 mW/g



0 dB = 13.4mW/g

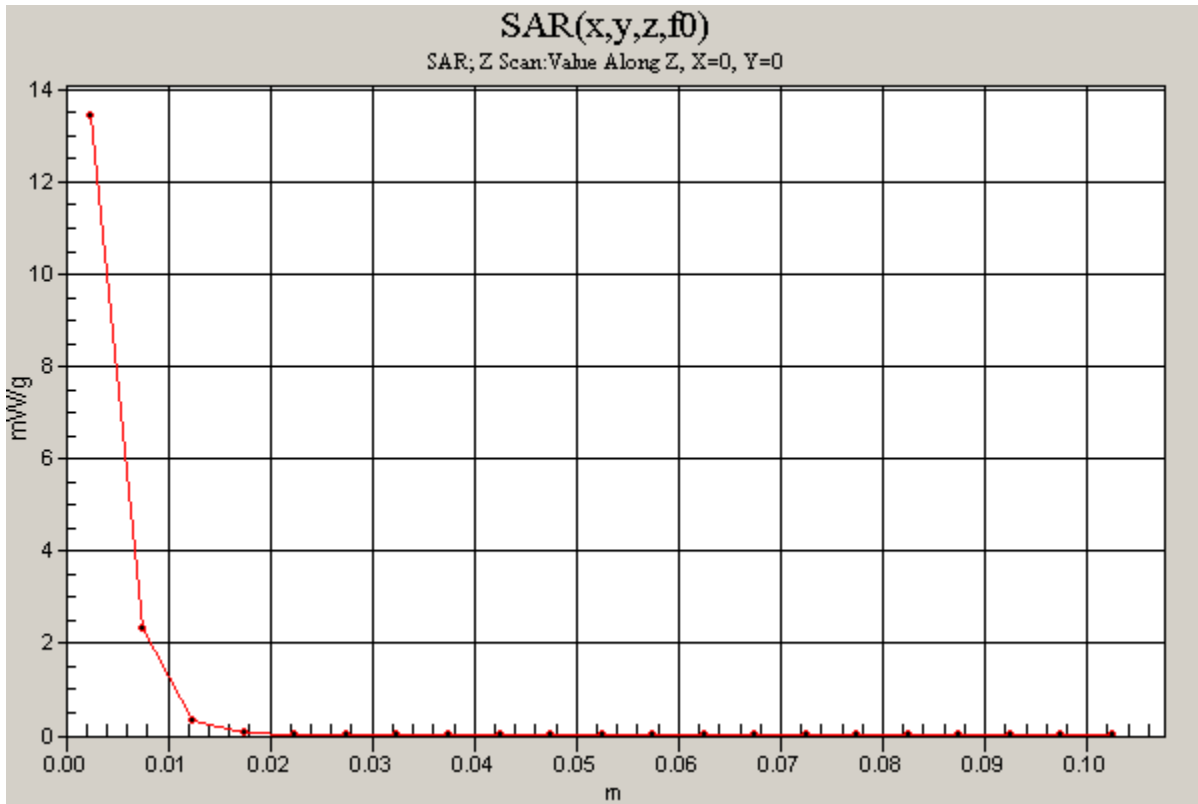
### 20140510\_System check\_Diple5GHzv2 SN1004

Frequency: 5800 MHz; Duty Cycle: 1:1

**Body/5800MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.4 mW/g



## 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5200 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5200$  MHz;  $\sigma = 5.16$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5200MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.0 mW/g

**Body/5200MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 54.4 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 30.9 W/kg

Peak SAR (extrapolated) = 30.9 W/kg

**SAR(1 g) = 7.48 mW/g; SAR(10 g) = 2.1 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.9 mW/g



0 dB = 12.7mW/g

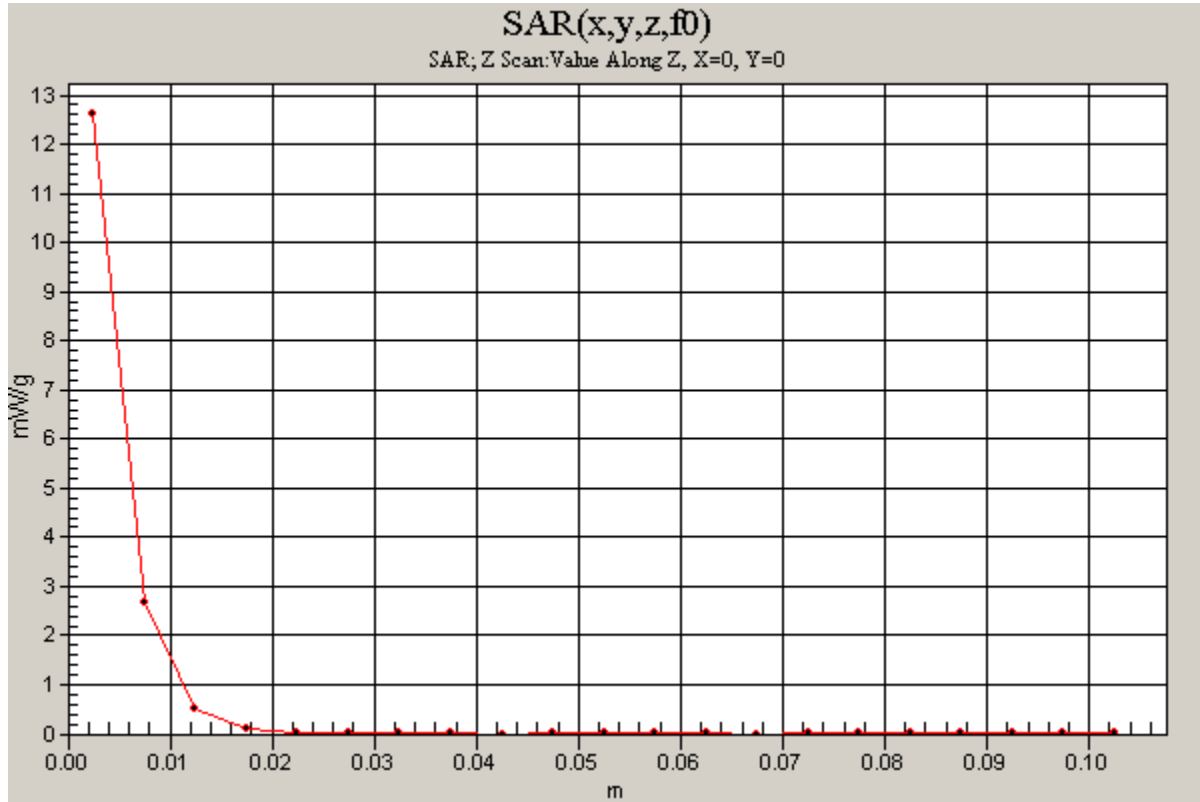
### 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5200 MHz; Duty Cycle: 1:1

**Body/5200MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.6 mW/g



## 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5300MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.4 mW/g

**Body/5300MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 53.0 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 31.6 W/kg

**SAR(1 g) = 7.6 mW/g; SAR(10 g) = 2.13 mW/g**

Maximum value of SAR (measured) = 12.6 mW/g

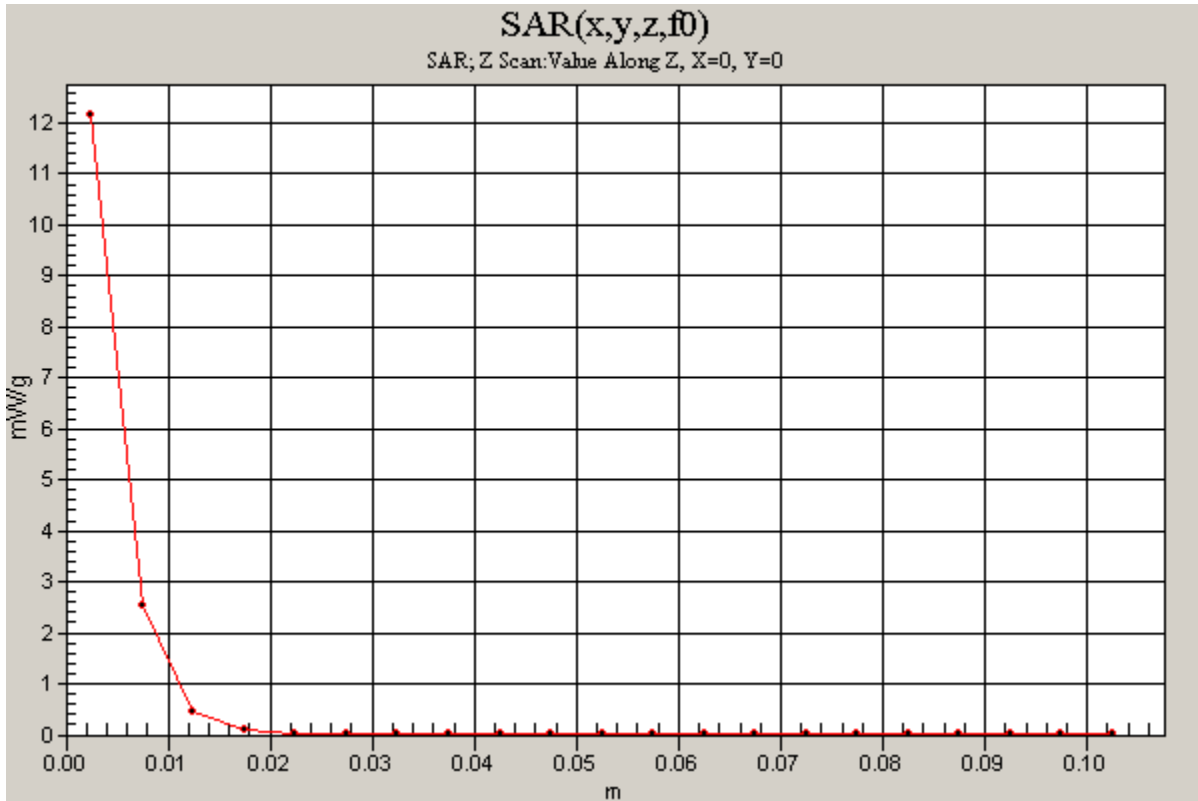


0 dB = 12.6mW/g

### 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5300 MHz; Duty Cycle: 1:1

**Body/5300MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 12.2 mW/g



## 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5600 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5600.5$  MHz;  $\sigma = 5.66$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5600MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.9 mW/g

**Body/5600MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 50.4 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 8.03 mW/g; SAR(10 g) = 2.25 mW/g**

Maximum value of SAR (measured) = 13.5 mW/g

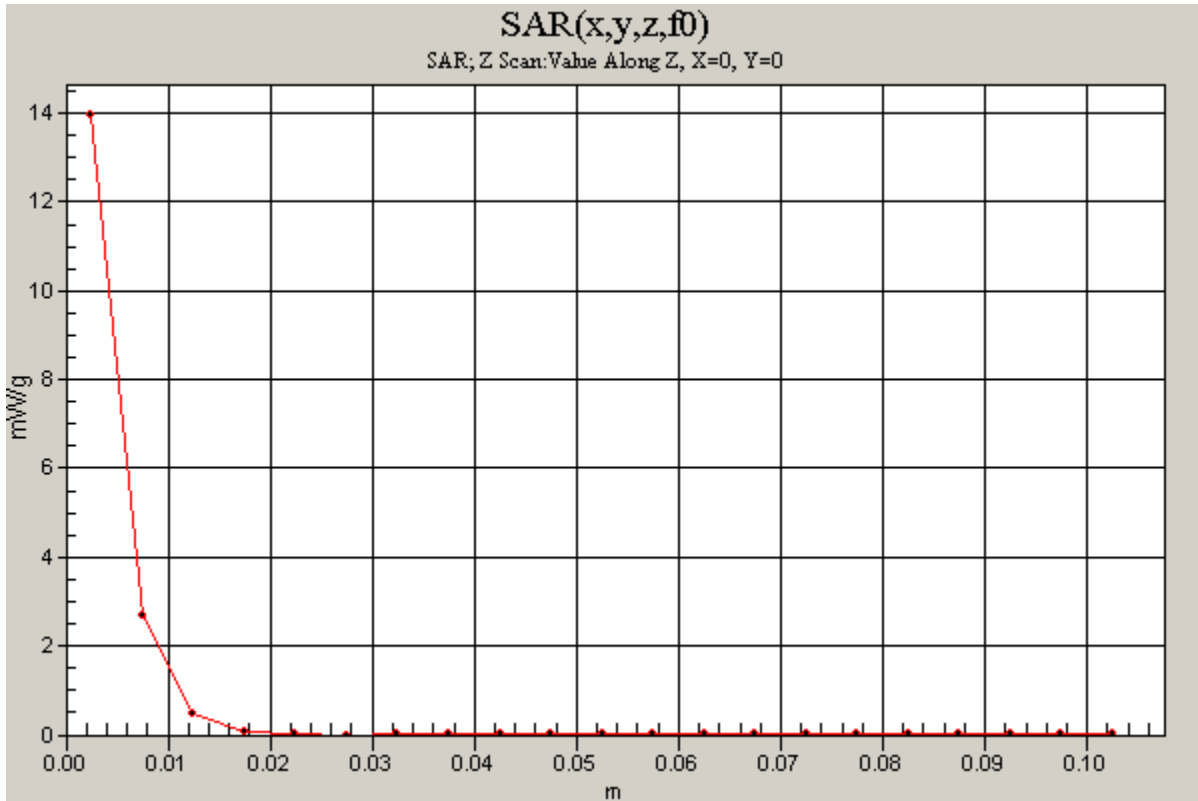


0 dB = 13.5mW/g

### 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5600 MHz; Duty Cycle: 1:1

**Body/5600MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 14.0 mW/g





## 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5800 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5800$  MHz;  $\sigma = 5.87$  mho/m;  $\epsilon_r = 47.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5800MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.8 mW/g

**Body/5800MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 51.2 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 33.0 W/kg

Peak SAR (extrapolated) = 33.0 W/kg

**SAR(1 g) = 7.65 mW/g; SAR(10 g) = 2.16 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.2 mW/g



0 dB = 13.2mW/g

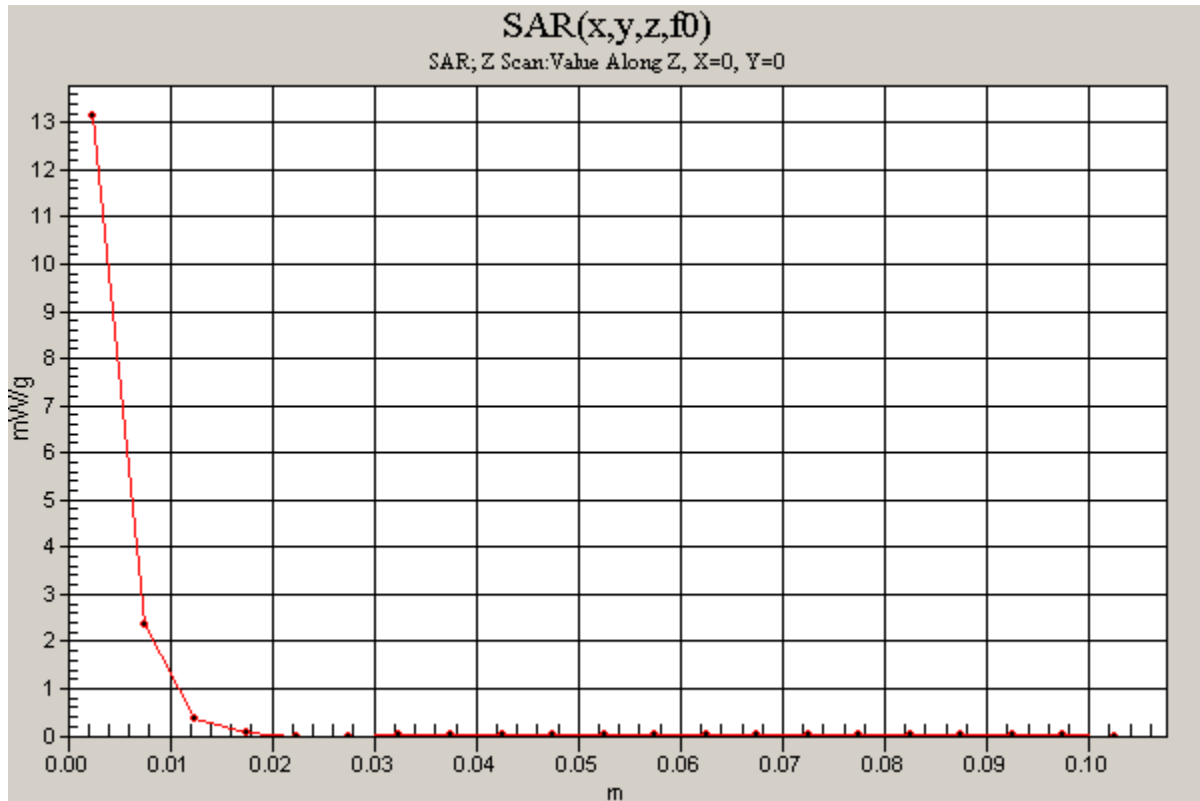
## 20140512\_System check\_Diple5GHzv2 SN1004

Frequency: 5800 MHz; Duty Cycle: 1:1

**Body/5800MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.1 mW/g



## 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5200 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5200$  MHz;  $\sigma = 5.26$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5200MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.3 mW/g

**Body/5200MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 54.4 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 31.5 W/kg

**SAR(1 g) = 7.63 mW/g; SAR(10 g) = 2.14 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.9 mW/g



0 dB = 12.9mW/g

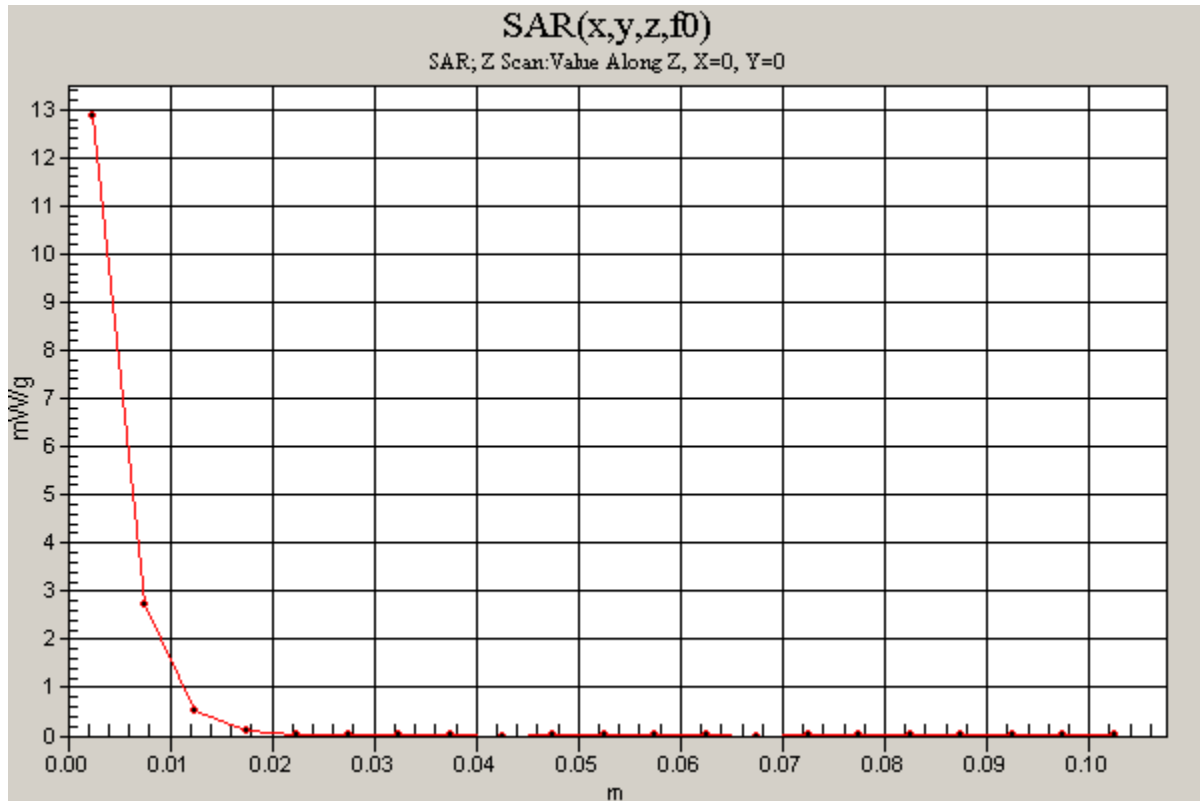
### 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5200 MHz; Duty Cycle: 1:1

**Body/5200MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.9 mW/g



## 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5300MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 13.7 mW/g

**Body/5300MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 53.0 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 32.3 W/kg

**SAR(1 g) = 7.76 mW/g; SAR(10 g) = 2.18 mW/g**

Maximum value of SAR (measured) = 12.9 mW/g

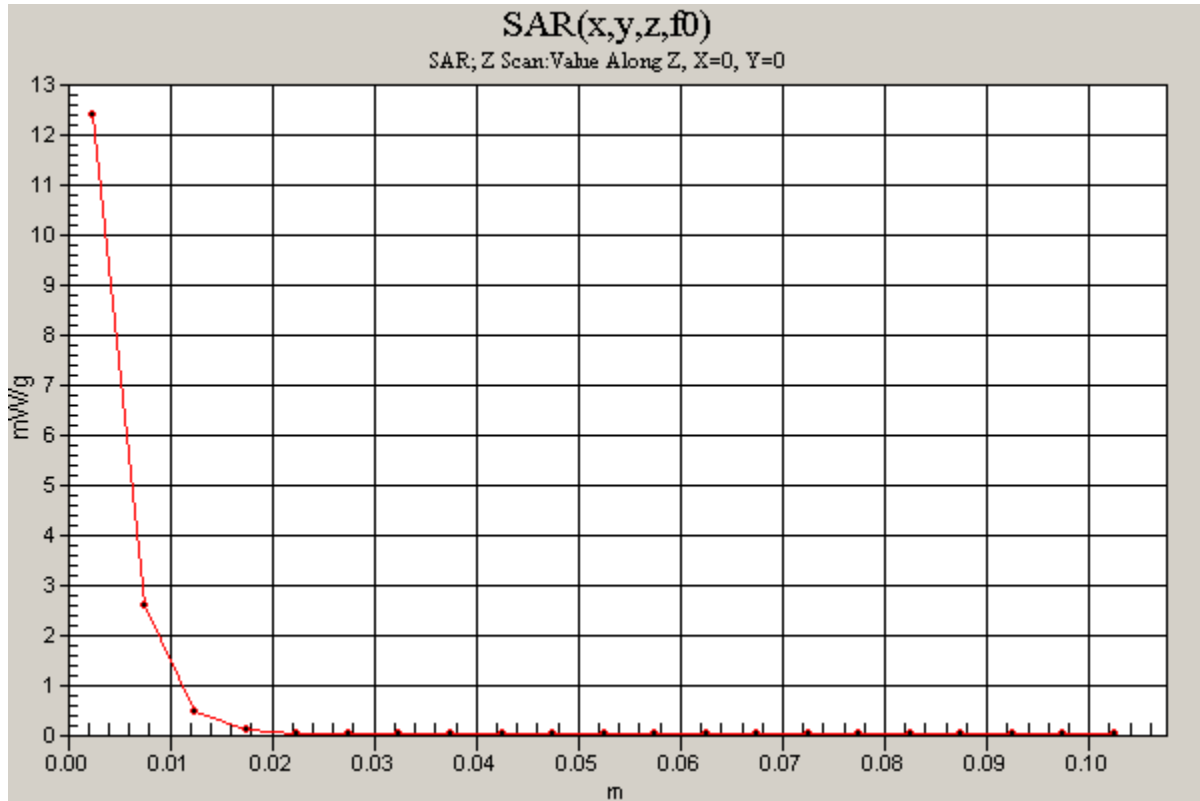


0 dB = 12.9mW/g

### 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5300 MHz; Duty Cycle: 1:1

**Body/5300MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 12.4 mW/g



## 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5600 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5600.5$  MHz;  $\sigma = 5.78$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5600MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 12.1 mW/g

**Body/5600MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm,

dy=4mm, dz=2.5mm

Reference Value = 50.4 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 33.9 W/kg

**SAR(1 g) = 8.2 mW/g; SAR(10 g) = 2.3 mW/g**

Maximum value of SAR (measured) = 1. mW/g

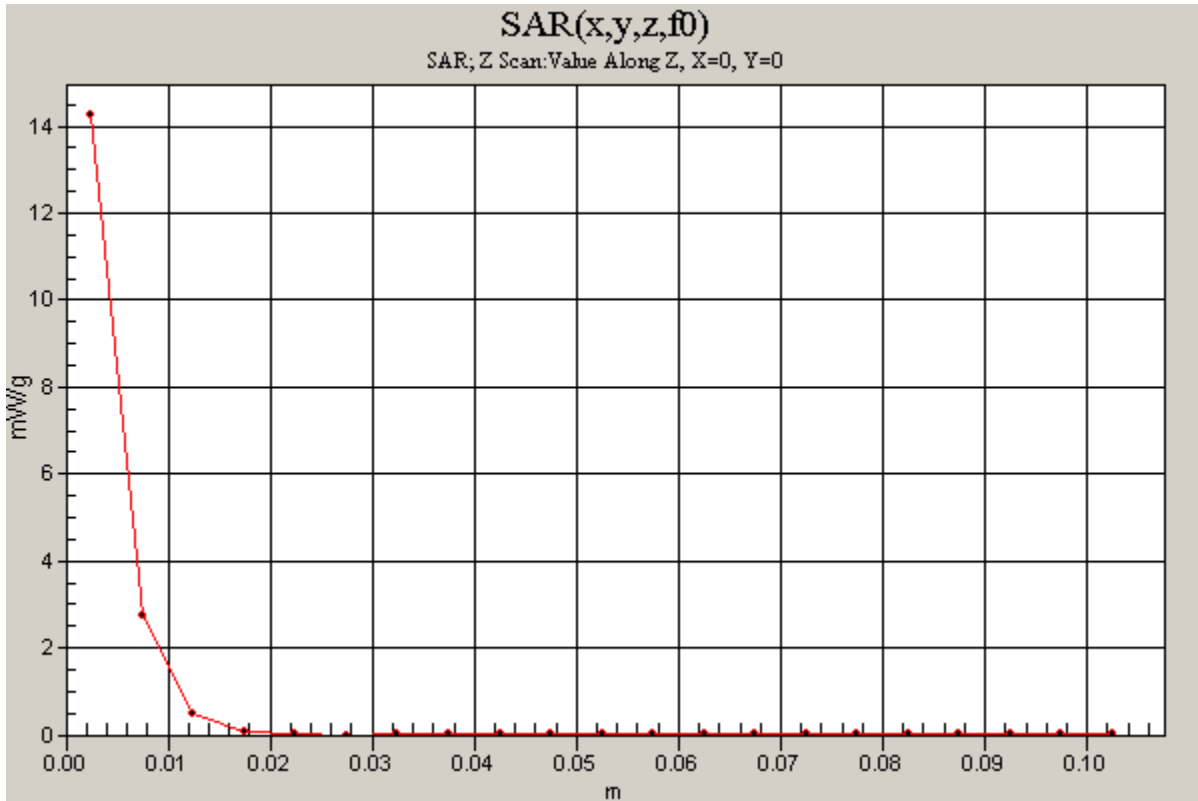


0 dB = 13.8mW/g

### 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5600 MHz; Duty Cycle: 1:1

**Body/5600MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 14.3 mW/g





## 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5800 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5800$  MHz;  $\sigma = 6.02$  mho/m;  $\epsilon_r = 46.1$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Body/5800MHz,Pin=100mW,d= 2/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 14.2 mW/g

**Body/5800MHz,Pin=100mW,d= 2/Zoom Scan (8x8x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 50.7 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 33.2 W/kg

Peak SAR (extrapolated) = 33.2 W/kg

**SAR(1 g) = 7.71 mW/g; SAR(10 g) = 2.16 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.5 mW/g



0 dB = 13.5mW/g

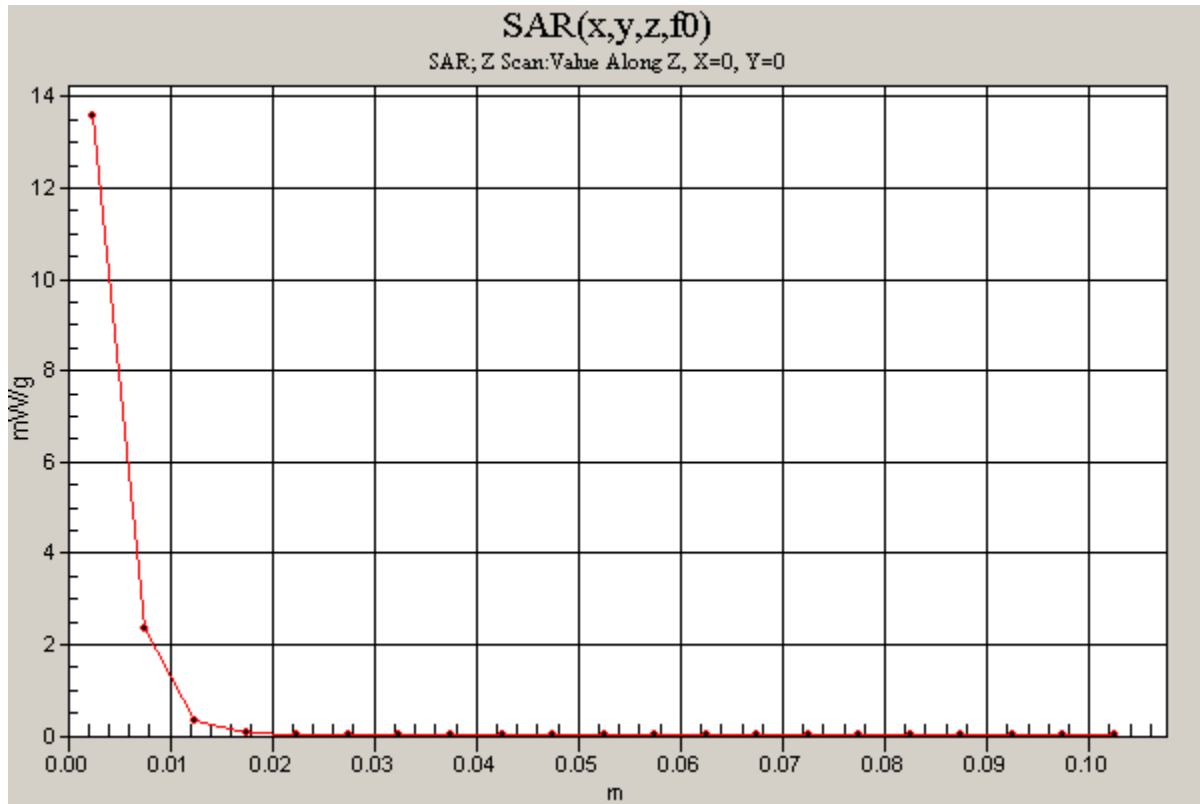
### 20140513\_System check\_Diple5GHzv2 SN1004

Frequency: 5800 MHz; Duty Cycle: 1:1

**Body/5800MHz,Pin=100mW,d= 2/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.1 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.391 mW/g

**Bottom/Main Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

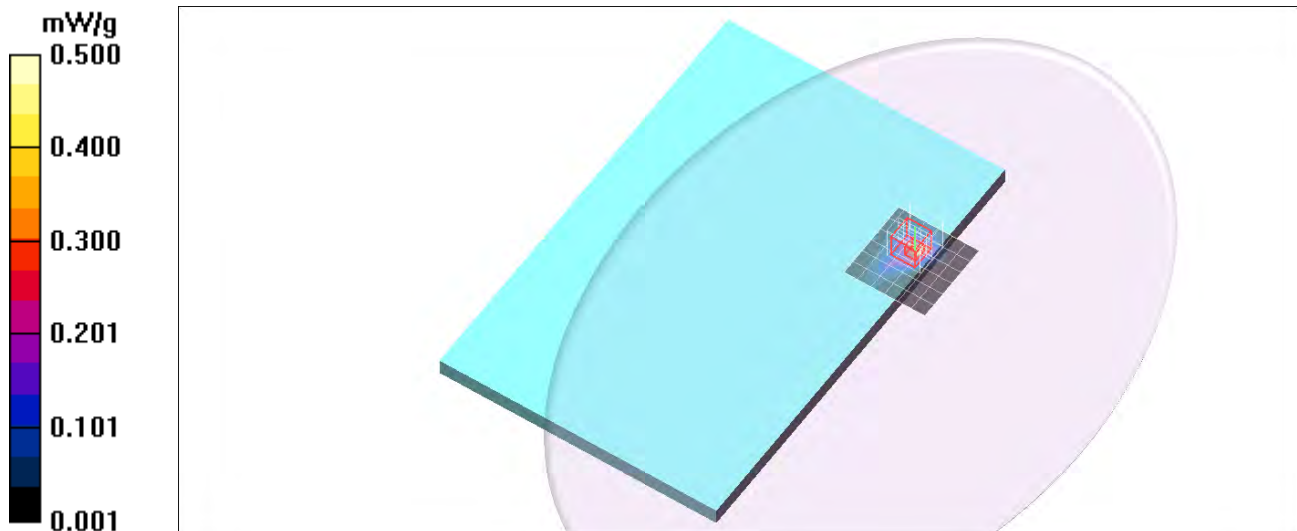
Reference Value = 0.703 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.193 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.736 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.901 mW/g

**Bottom/Aux Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

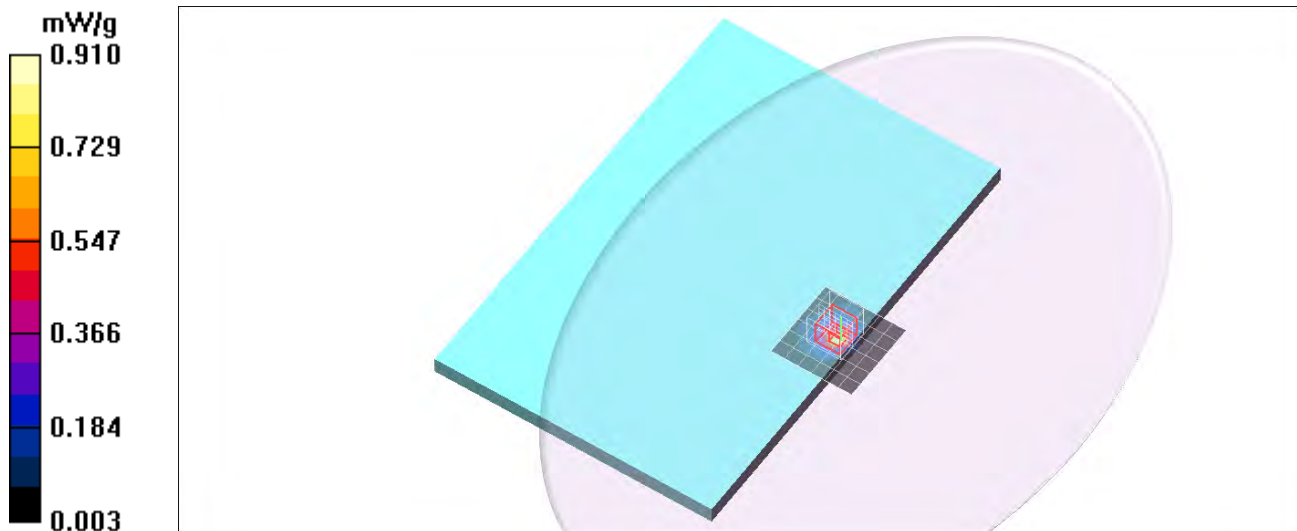
Reference Value = 8.22 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.247 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.910 mW/g



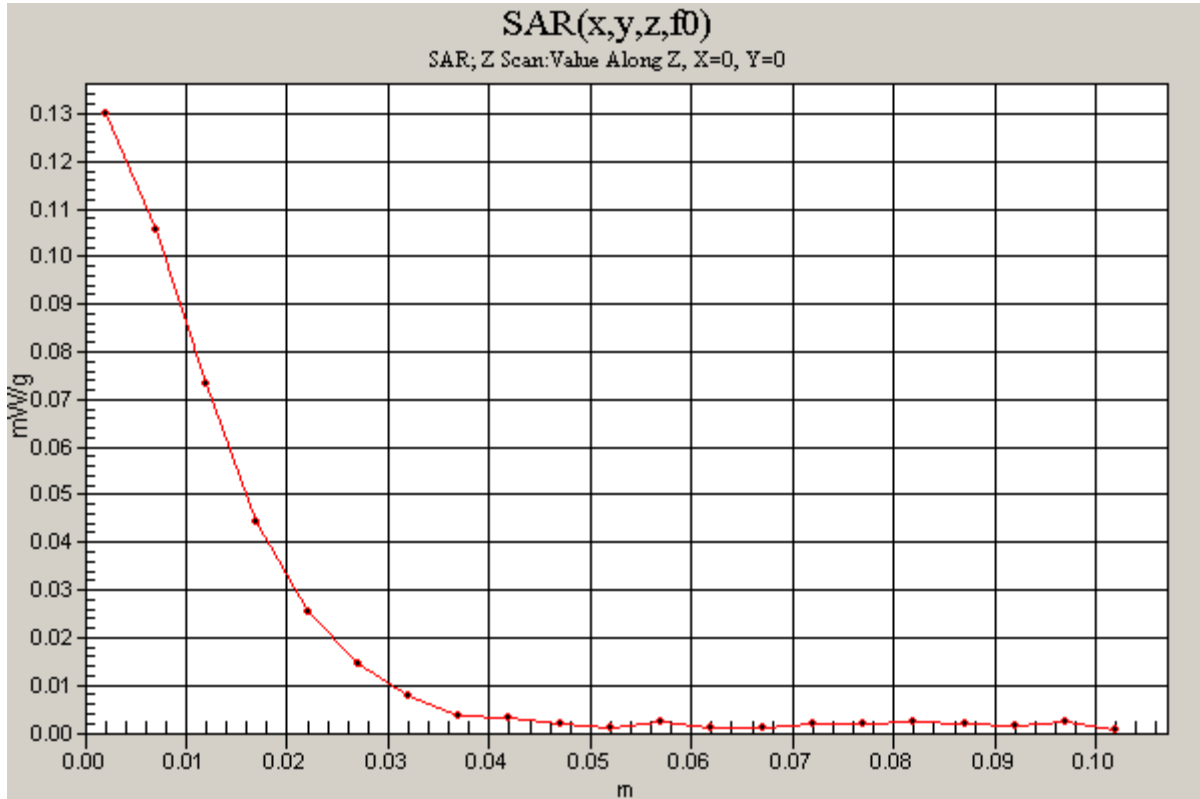
## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1

**Bottom/Aux Ant/802.11b/Ch6/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.130 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.378 mW/g

**Bottom/Main Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.884 V/m; Power Drift = 0.136 dB

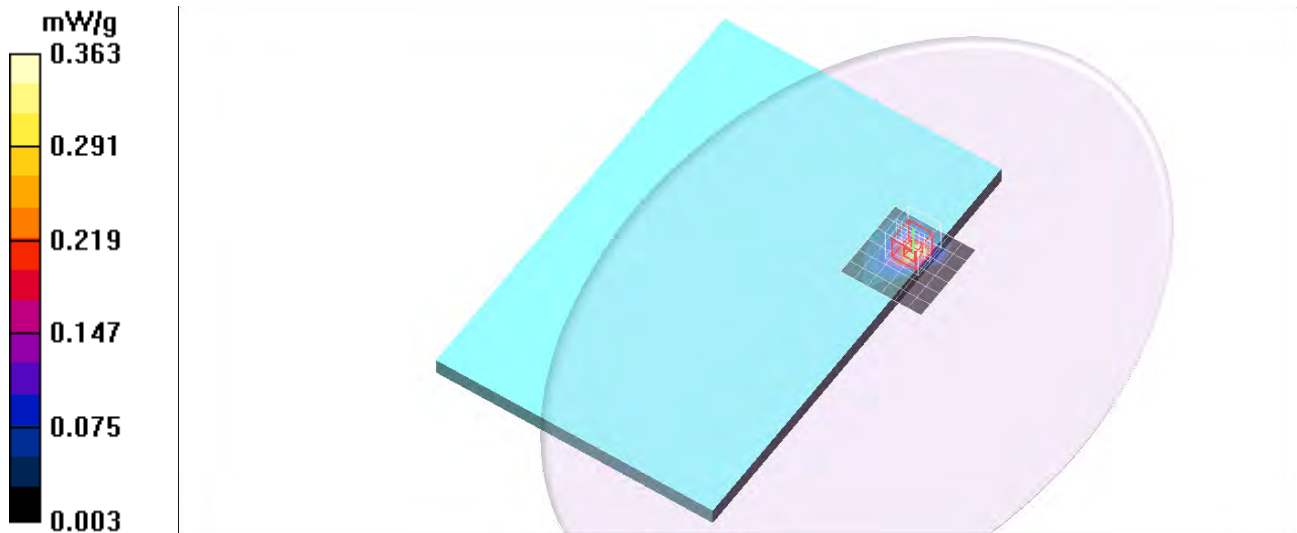
Peak SAR (extrapolated) = 0.514 W/kg

Peak SAR (extrapolated) = 0.514 W/kg

**SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.091 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.363 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11bn HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.577 mW/g

**Bottom/Aux Ant/802.11bn HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.179 dB

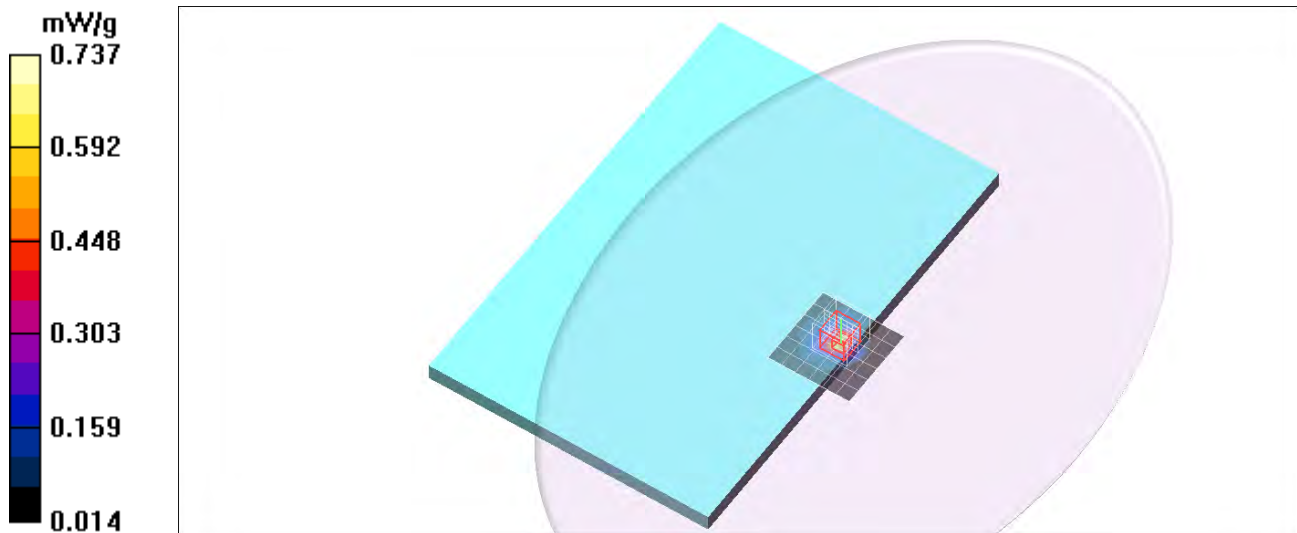
Peak SAR (extrapolated) = 1.05 W/kg

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.211 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.737 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.383 mW/g

**Rear/Main Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

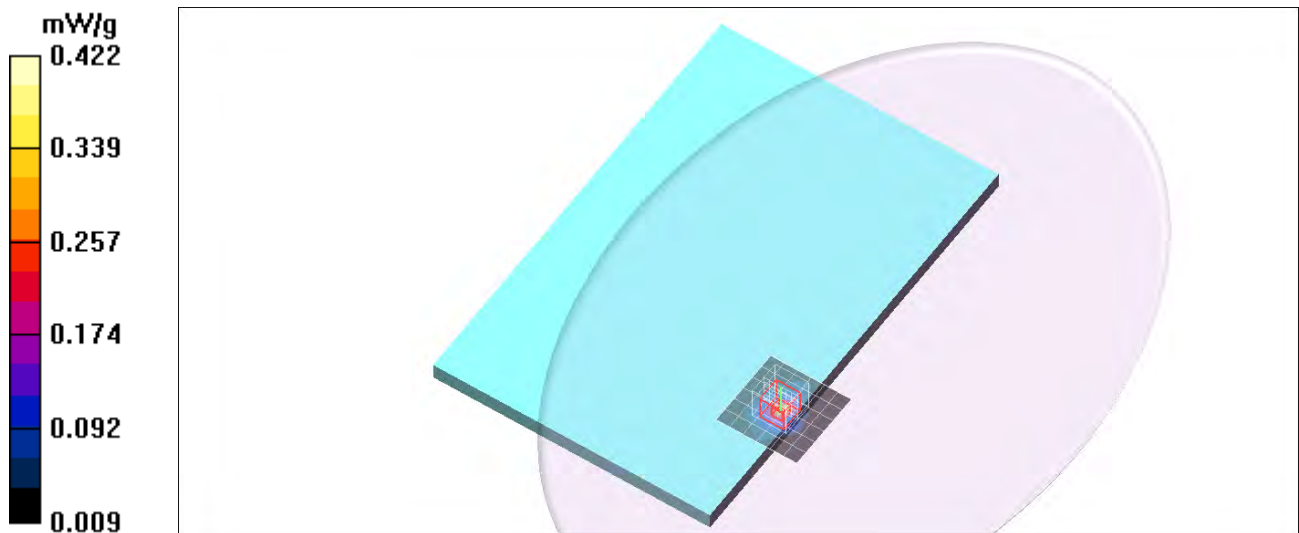
Reference Value = 1.95 V/m; Power Drift = 0.197 dB

Peak SAR (extrapolated) = 0.622 W/kg

**SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.108 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.422 mW/g





## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.378 mW/g

**Rear/Aux Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

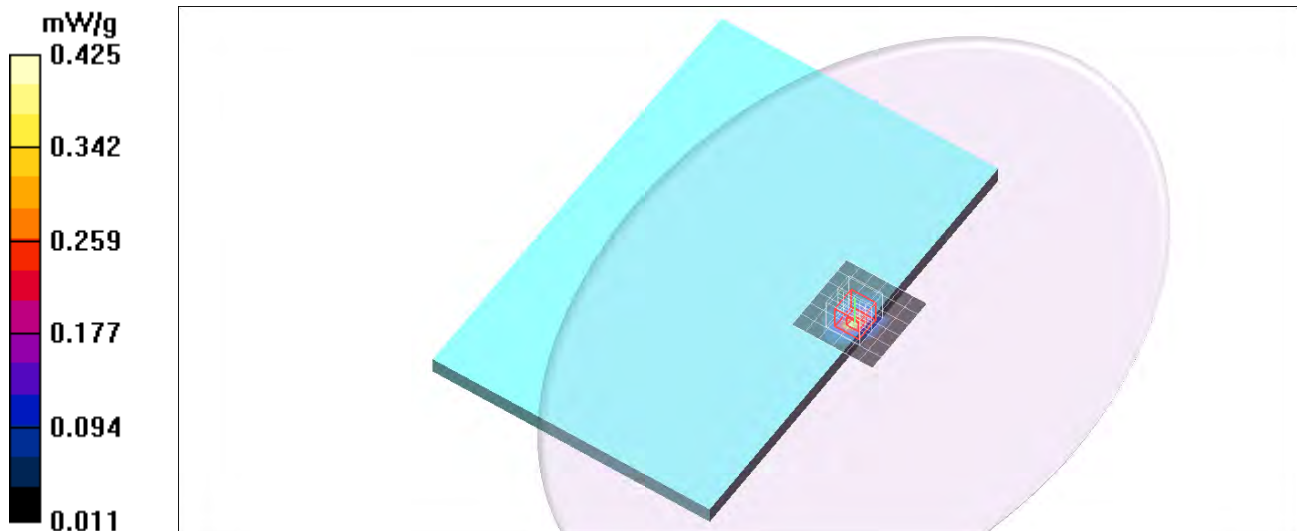
Reference Value = 10.2 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.630 W/kg

**SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.109 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.425 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.418 mW/g

**Rear/Main Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

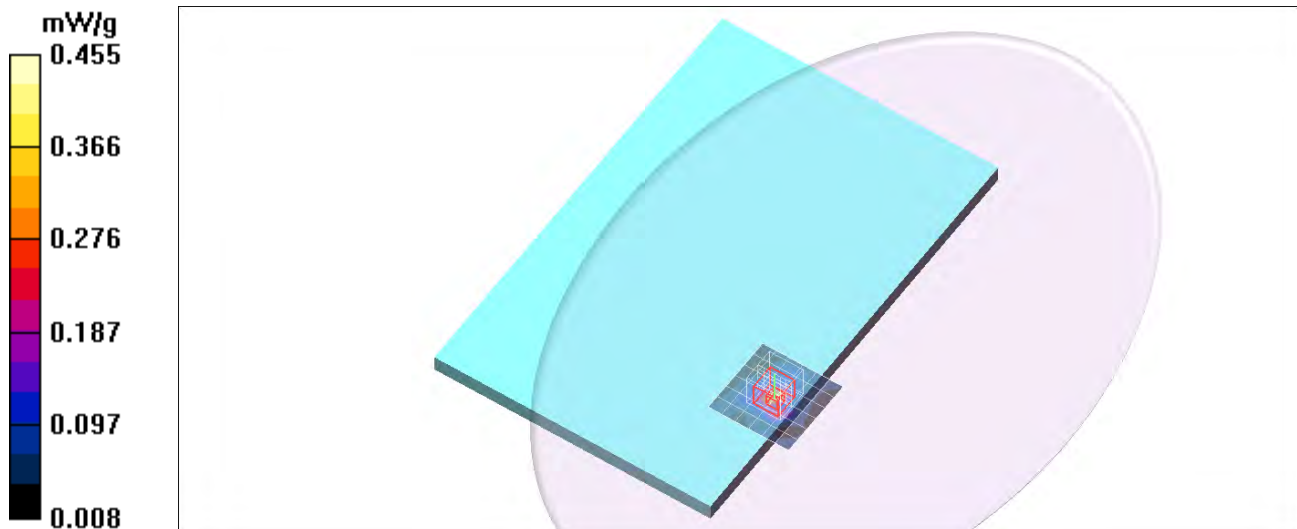
Reference Value = 4.85 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.728 W/kg

**SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.133 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.455 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.353 mW/g

**Rear/Aux Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

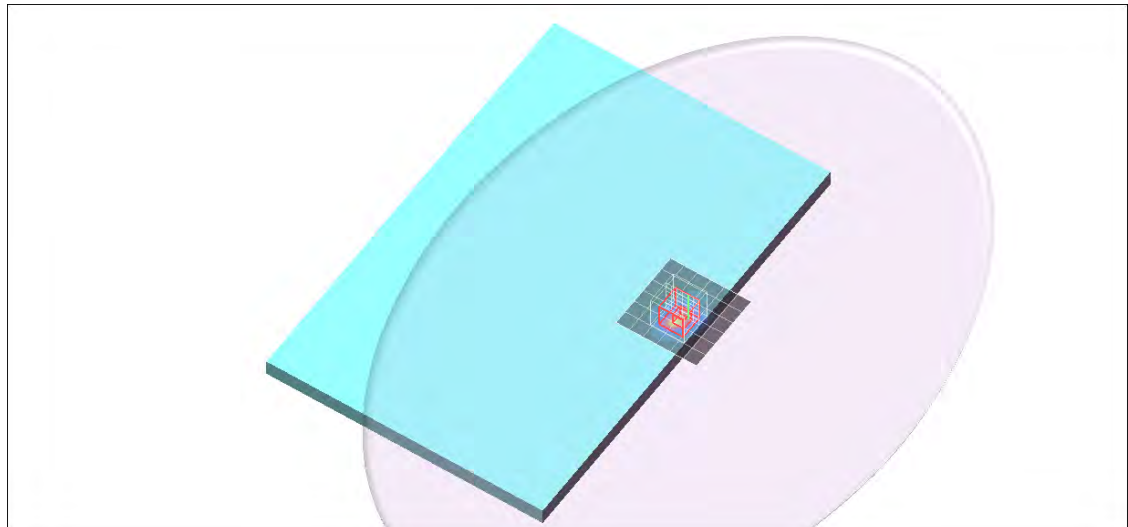
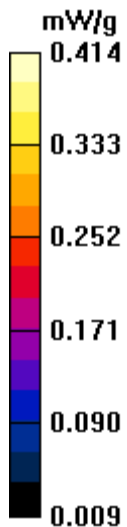
Reference Value = 9.35 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.660 W/kg

**SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.127 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.414 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Main Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.210 mW/g

**Edge 3/Main Ant/802.11b/Ch6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

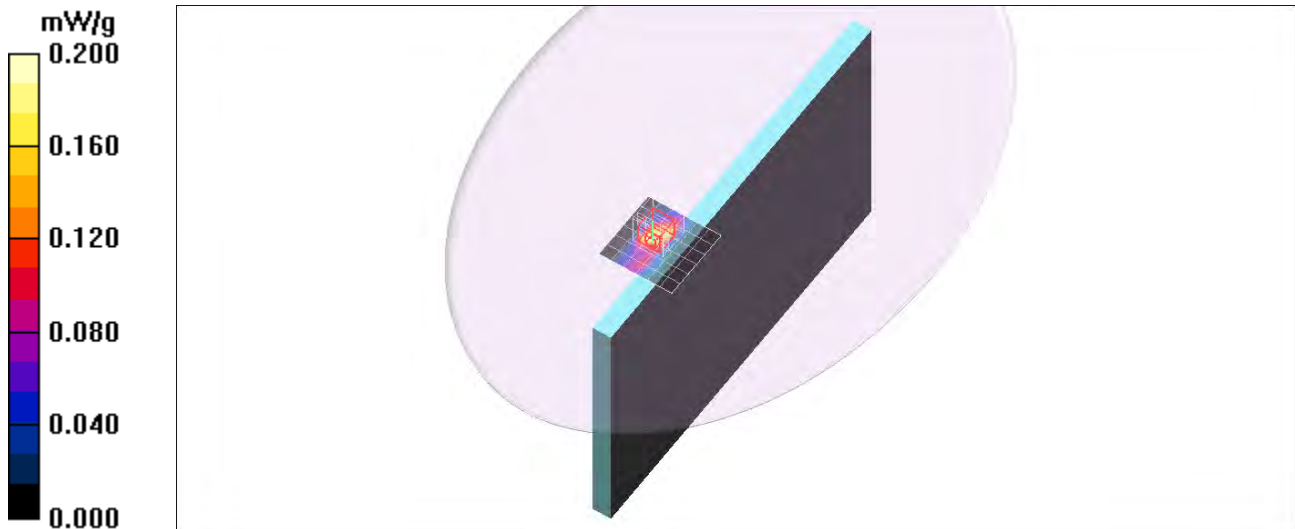
Reference Value = 1.93 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.436 W/kg

**SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.070 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.296 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Aux Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.311 mW/g

**Edge 3/Aux Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

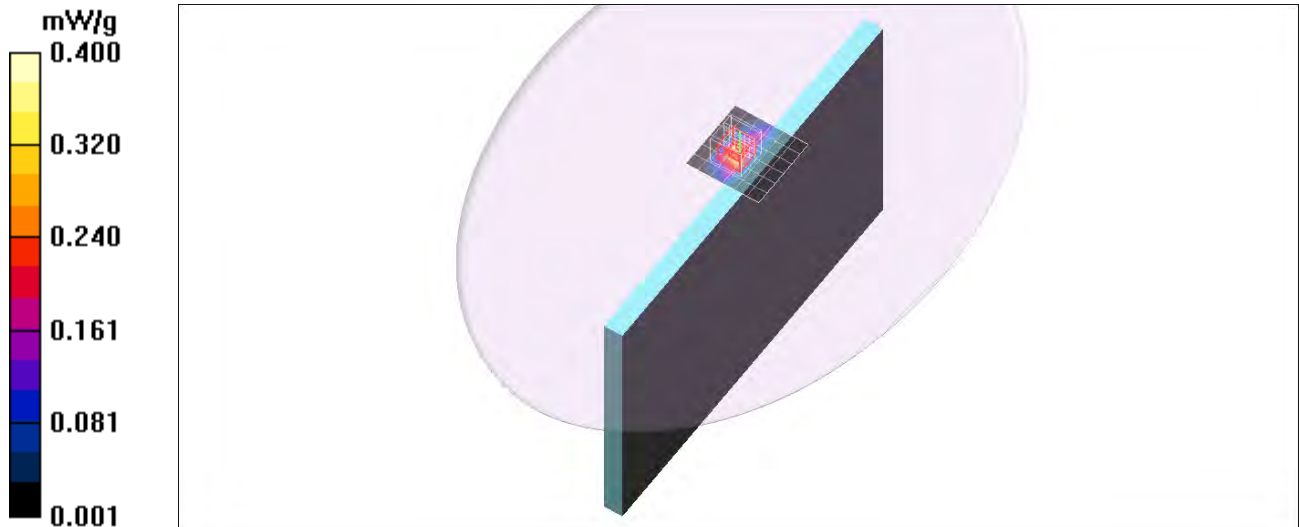
Reference Value = 5.87 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 0.730 W/kg

**SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.120 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.484 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Main Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.243 mW/g

**Edge 3/Main Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

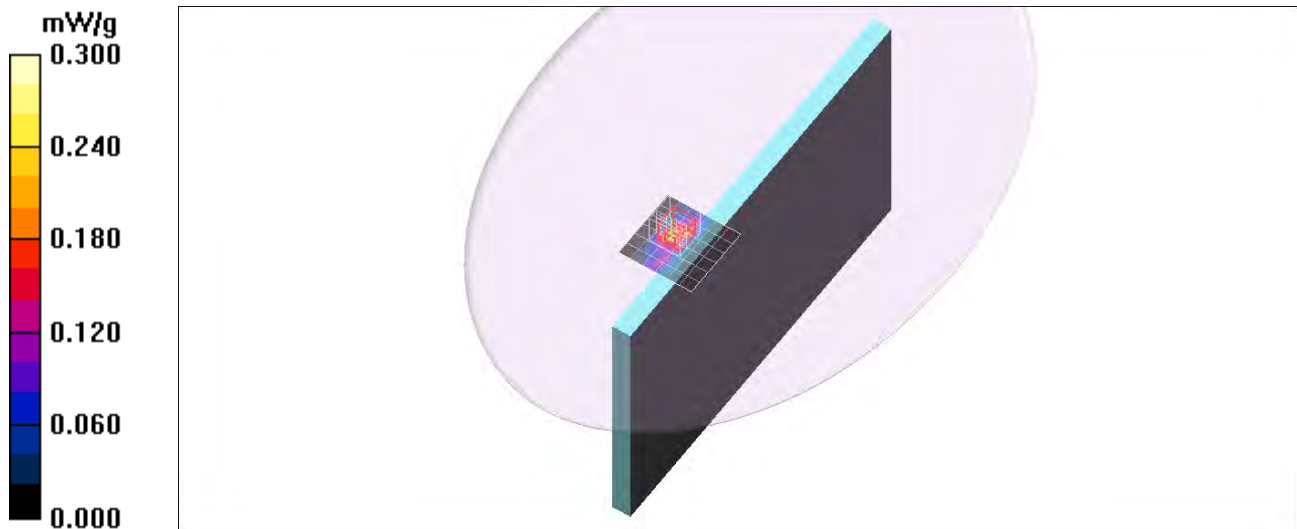
Reference Value = 1.79 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.530 W/kg

**SAR(1 g) = 0.193 mW/g; SAR(10 g) = 0.077 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.357 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Aux Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.306 mW/g

**Edge 3/Aux Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

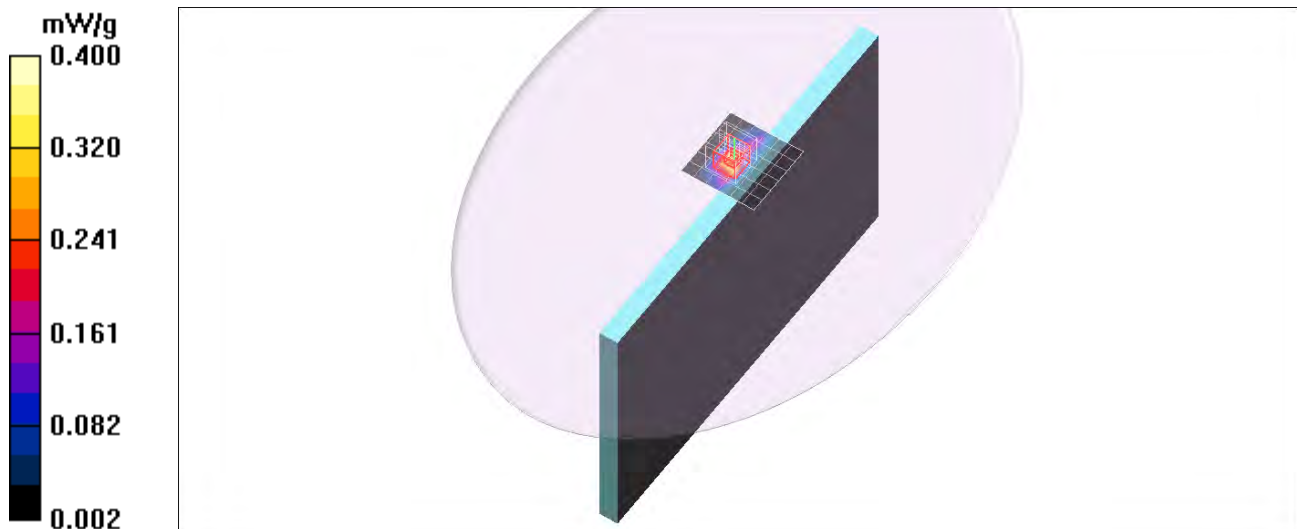
Reference Value = 5.92 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 0.775 W/kg

**SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.129 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.520 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.322 mW/g

**Rear/Main Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

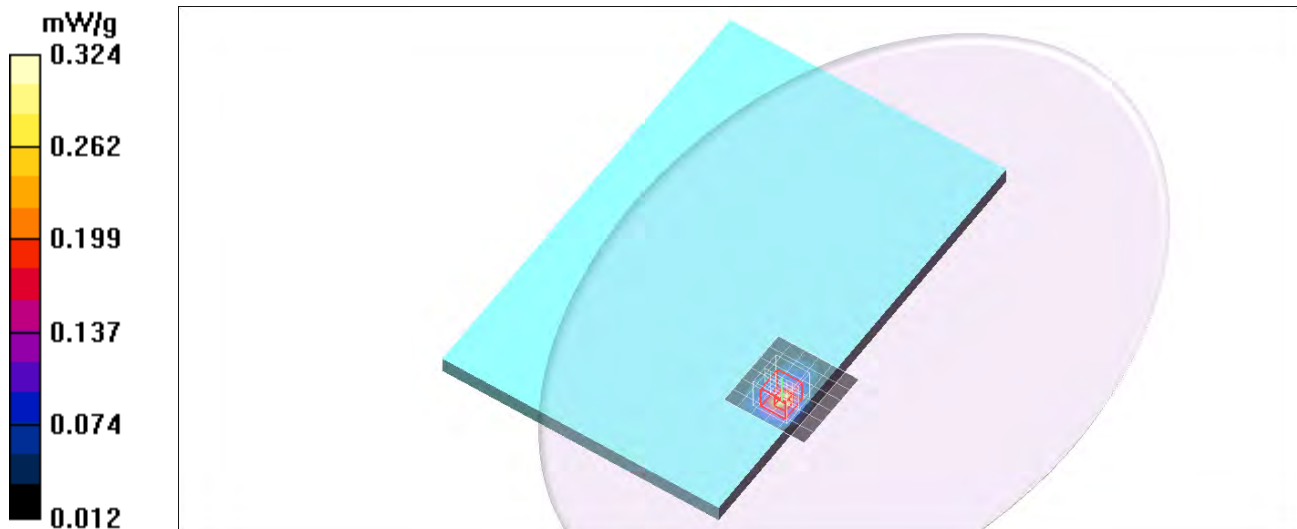
Reference Value = 2.30 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 0.473 W/kg

**SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.096 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.324 mW/g





## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.504 mW/g

**Rear/Aux Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

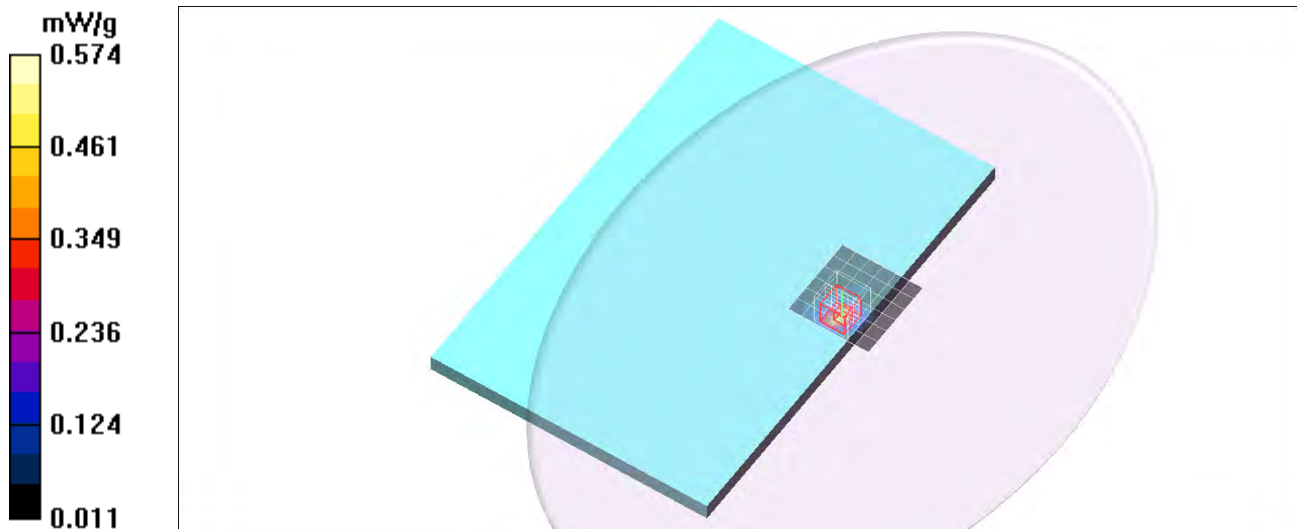
Reference Value = 12.6 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 0.812 W/kg

**SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.158 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.574 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.301 mW/g

**Rear/Main Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm,

dy=5mm, dz=5mm

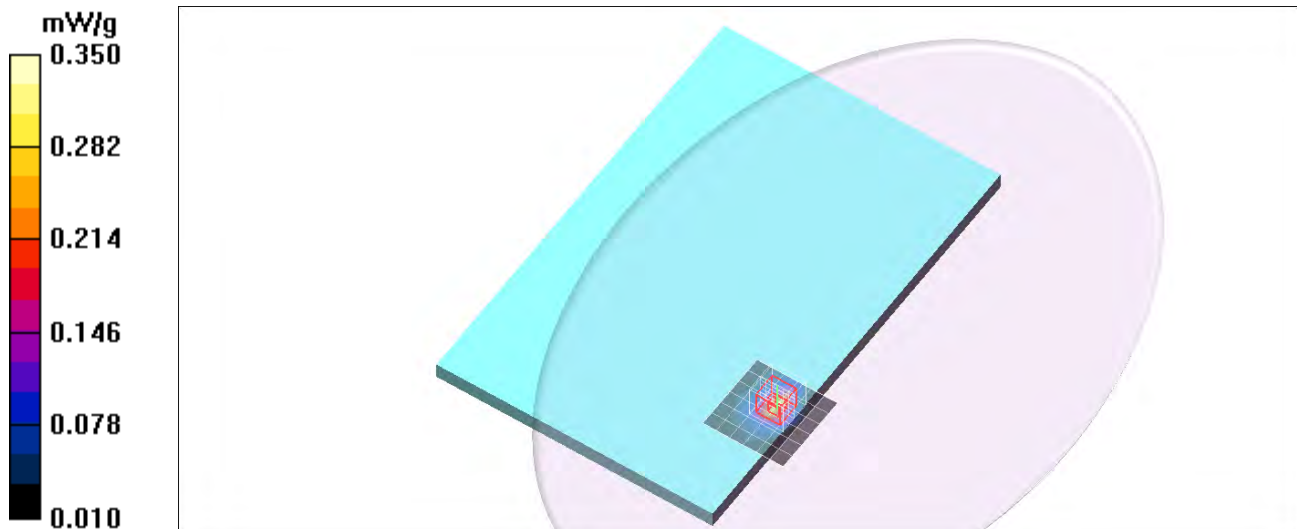
Reference Value = 2.13 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.501 W/kg

**SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.102 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.350 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.687 mW/g

**Rear/Aux Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

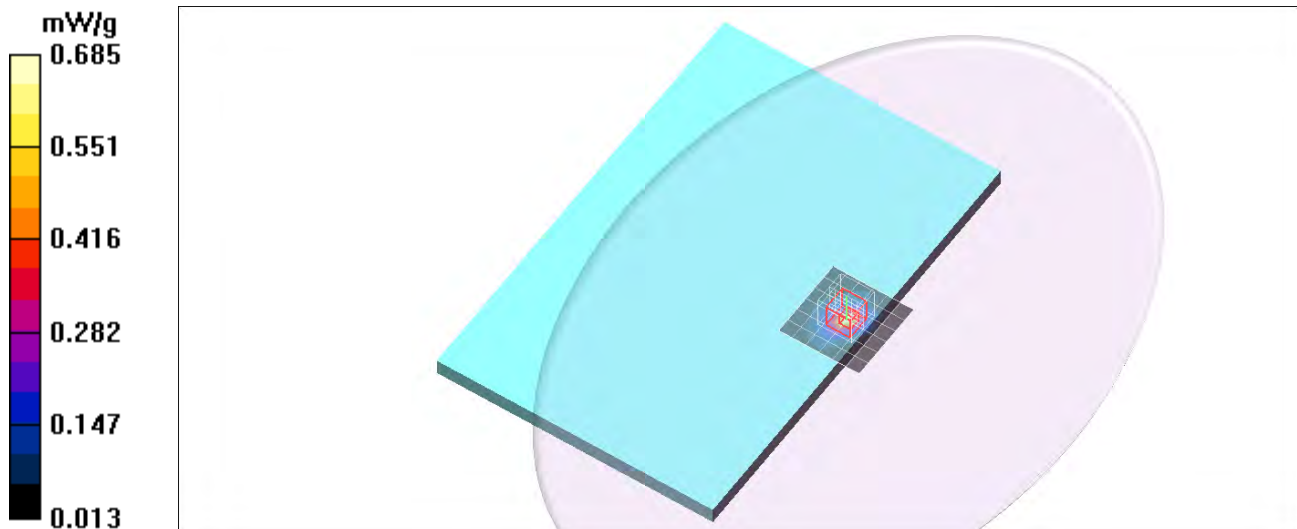
Reference Value = 13.7 V/m; Power Drift = -0.110 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.192 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.685 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Main Ant/802.11b/Ch6/Area Scan (7x9x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.087 mW/g

**Edge 3/Main Ant/802.11b/Ch6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

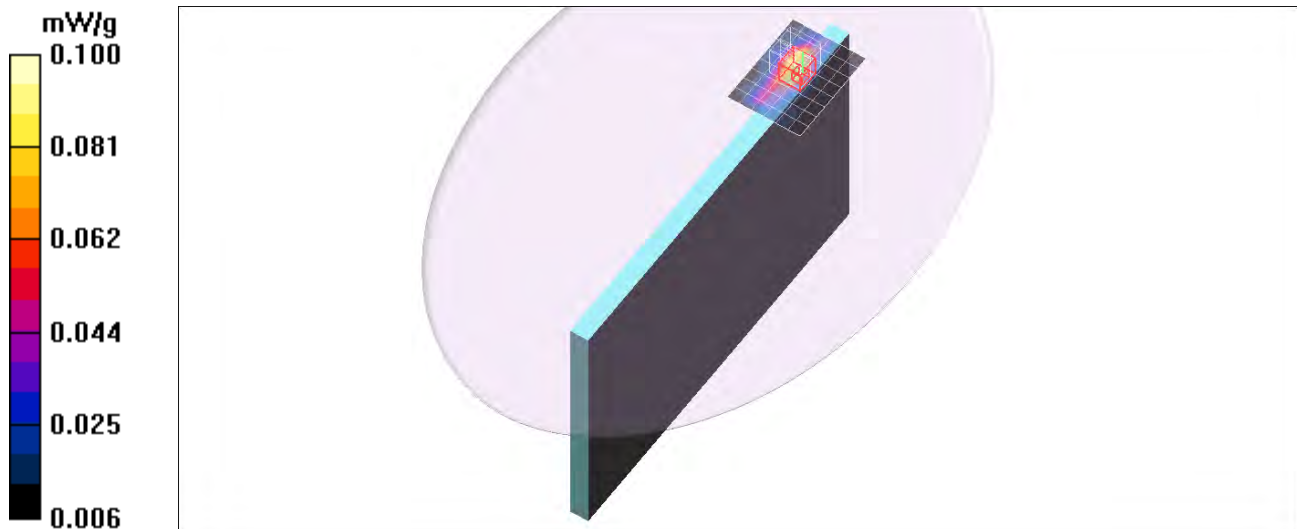
Reference Value = 1.47 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.215 W/kg

**SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.038 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.091 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Aux Ant/802.11b/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.044 mW/g

**Edge 3/Aux Ant/802.11b/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

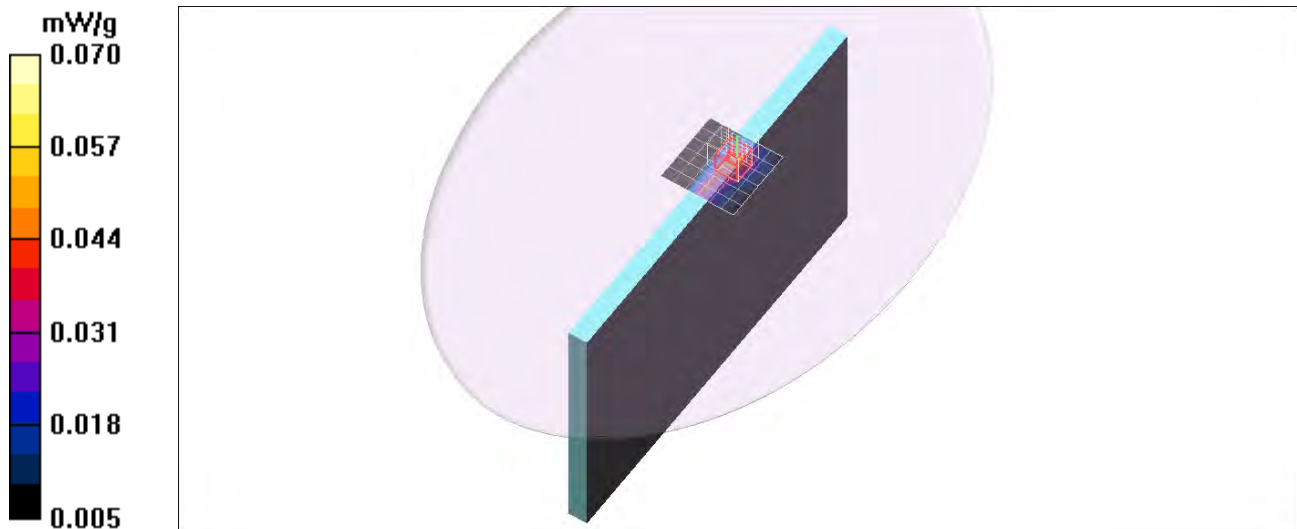
Reference Value = 6.17 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.125 W/kg

**SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.033 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.099 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Main Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.083 mW/g

**Edge 3/Main Ant/802.11n HT20/Ch6/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm

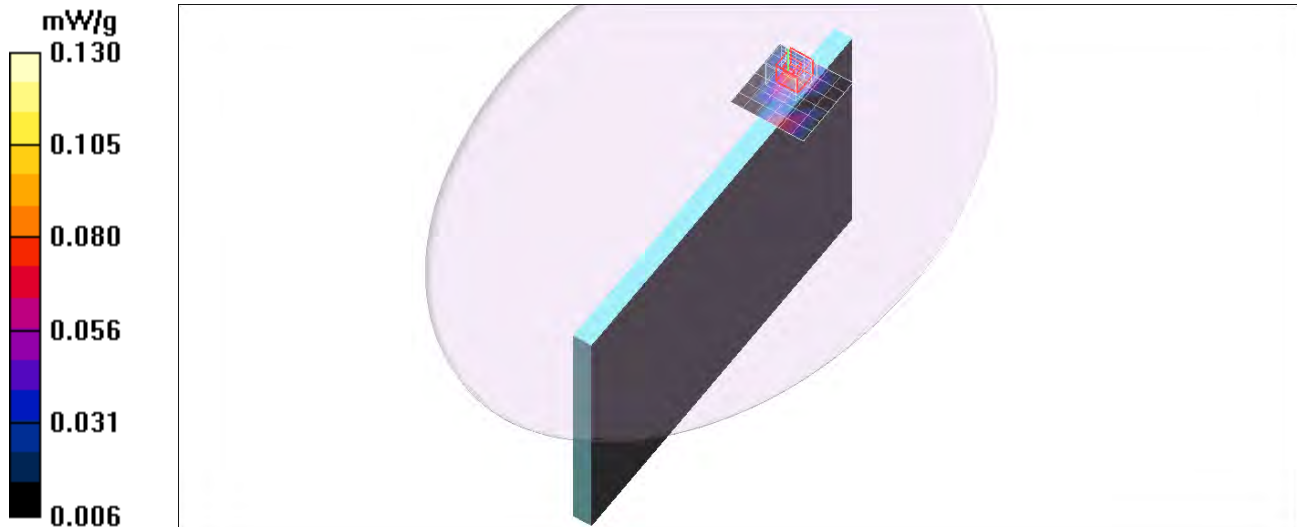
Reference Value = 4.35 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.119 W/kg

**SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.031 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.082 mW/g



## 2.4GHz Band

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(6.24, 6.24, 6.24); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge 3/Aux Ant/802.11n HT20/Ch6/Area Scan (7x7x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.098 mW/g

**Edge 3/Aux Ant/802.11n HT20/Ch6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.34 V/m; Power Drift = -0.165 dB

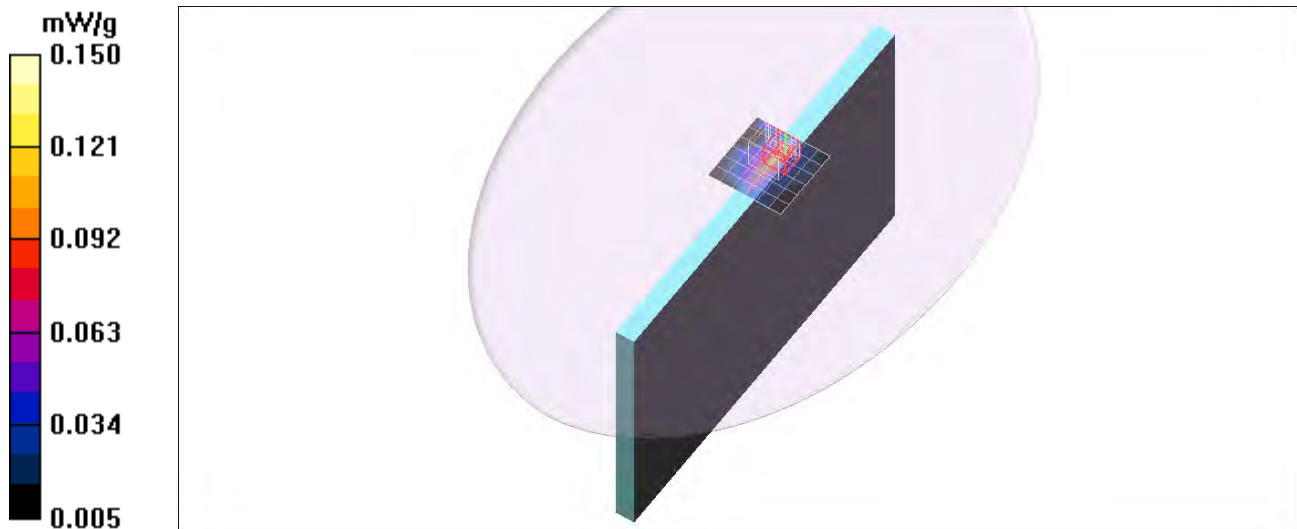
Peak SAR (extrapolated) = 0.133 W/kg

Peak SAR (extrapolated) = 0.133 W/kg

**SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.037 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.100 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.37$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.842 mW/g

**Bottom/Main Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

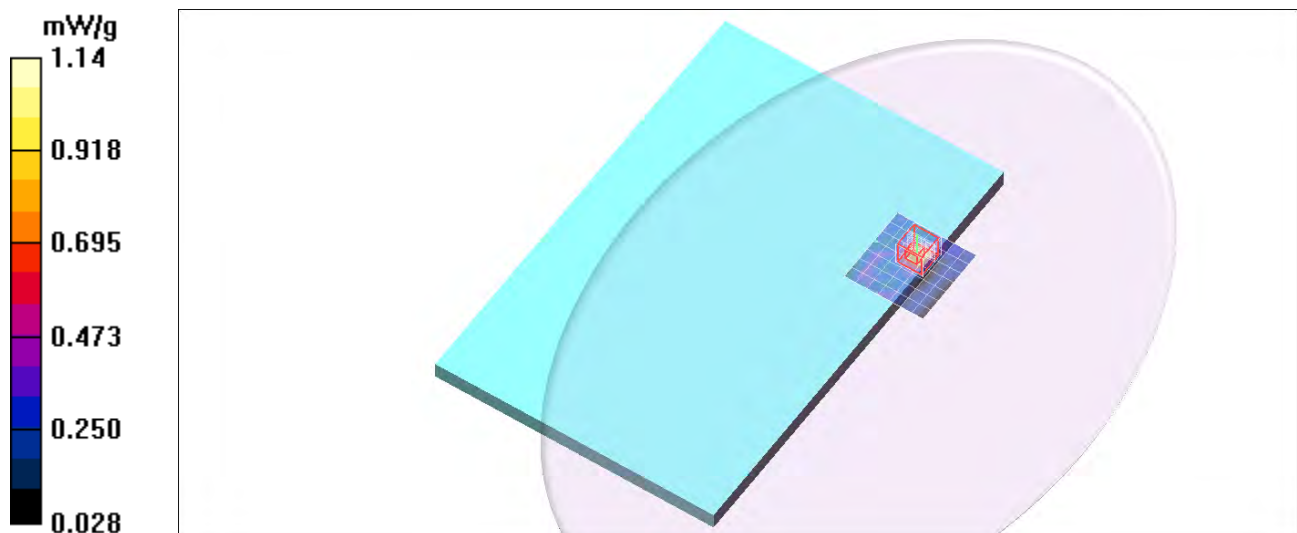
Reference Value = 2.33 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 2.67 W/kg

**SAR(1 g) = 0.567 mW/g; SAR(10 g) = 0.222 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.14 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.46$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.12 mW/g

**Bottom/Main Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

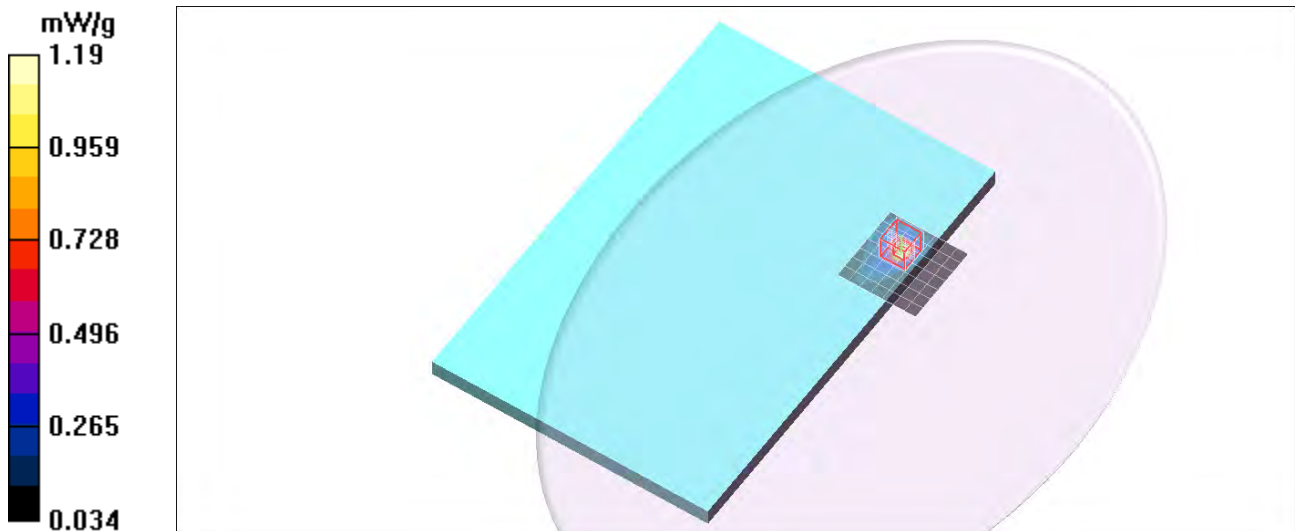
Reference Value = 2.39 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 2.66 W/kg

Peak SAR (extrapolated) = 2.66 W/kg

**SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.220 mW/g**

Maximum value of SAR (measured) = 1.19 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.67 mW/g

**Bottom/Main Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

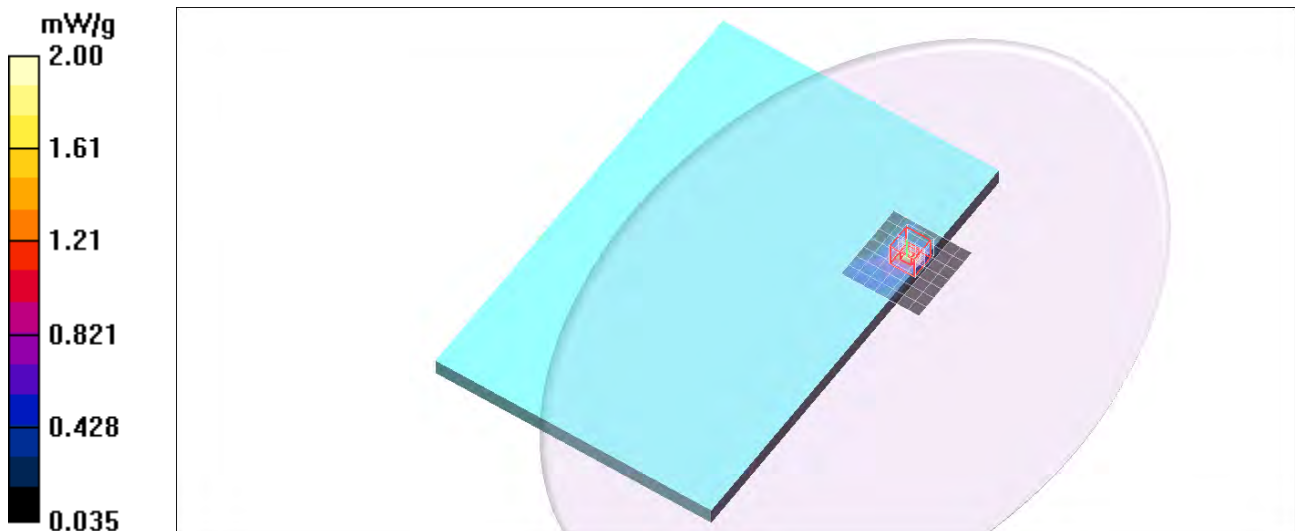
Reference Value = 2.90 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 3.58 W/kg

**SAR(1 g) = 0.792 mW/g; SAR(10 g) = 0.272 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.61 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6.09$  mho/m;  $\epsilon_r = 46.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.45 mW/g

**Bottom/Main Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

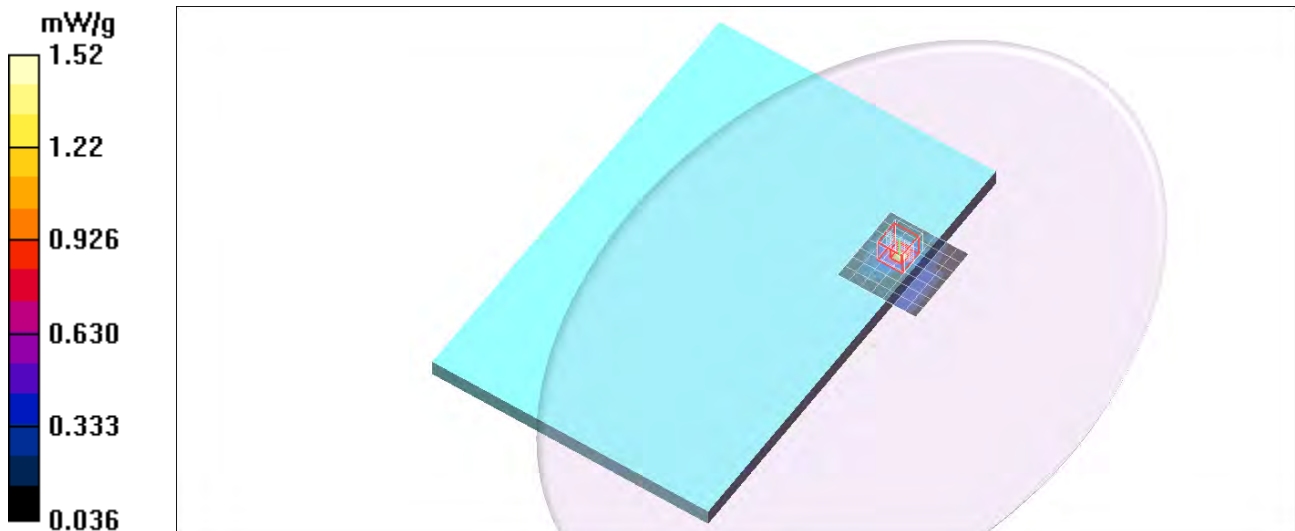
Reference Value = 2.37 V/m; Power Drift = 0.148 dB

Peak SAR (extrapolated) = 3.67 W/kg

Peak SAR (extrapolated) = 3.67 W/kg

**SAR(1 g) = 0.747 mW/g; SAR(10 g) = 0.258 mW/g**

Maximum value of SAR (measured) = 1.52 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.37$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.27 mW/g

**Bottom/Aux Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

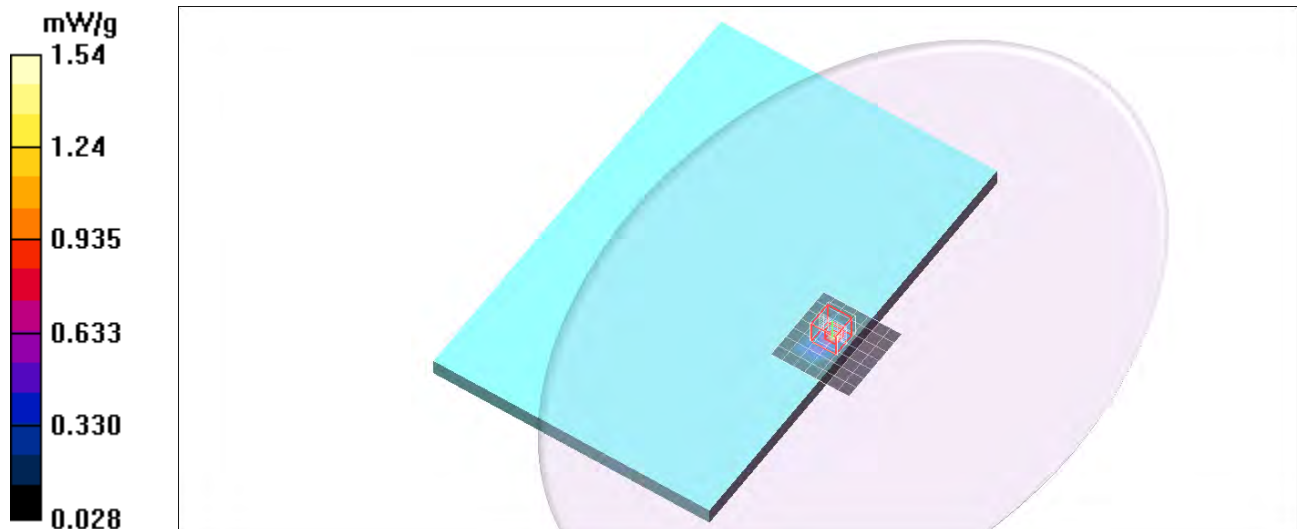
Reference Value = 3.39 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 3.48 W/kg

**SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.190 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.54 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.46$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.882 mW/g

**Bottom/Aux Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,

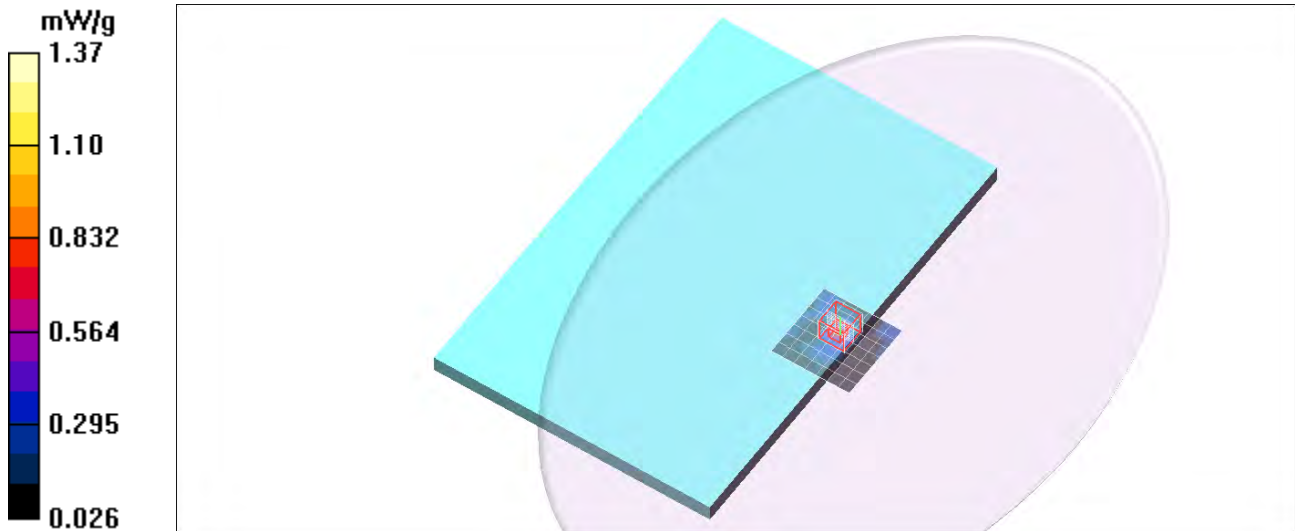
dz=2mm

Reference Value = 7.00 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 3.51 W/kg

**SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.231 mW/g**

Maximum value of SAR (measured) = 1.37 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.45 mW/g

**Bottom/Aux Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.50 V/m; Power Drift = -0.058 dB

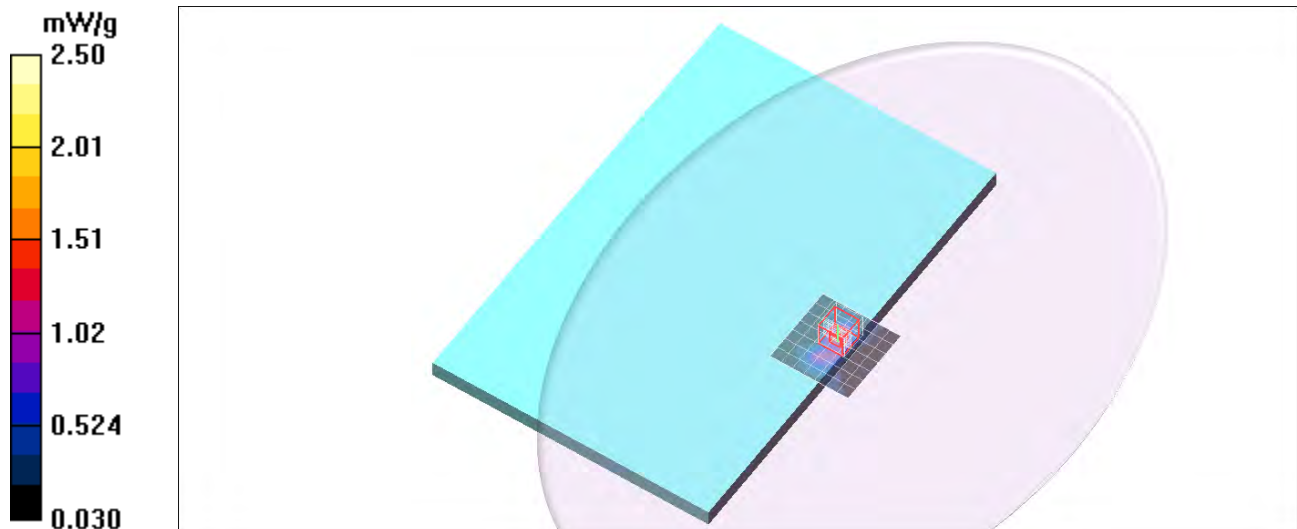
Peak SAR (extrapolated) = 3.05 W/kg

Peak SAR (extrapolated) = 3.05 W/kg

**SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.279 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.85 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6.09$  mho/m;  $\epsilon_r = 46.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.861 mW/g

**Bottom/Aux Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

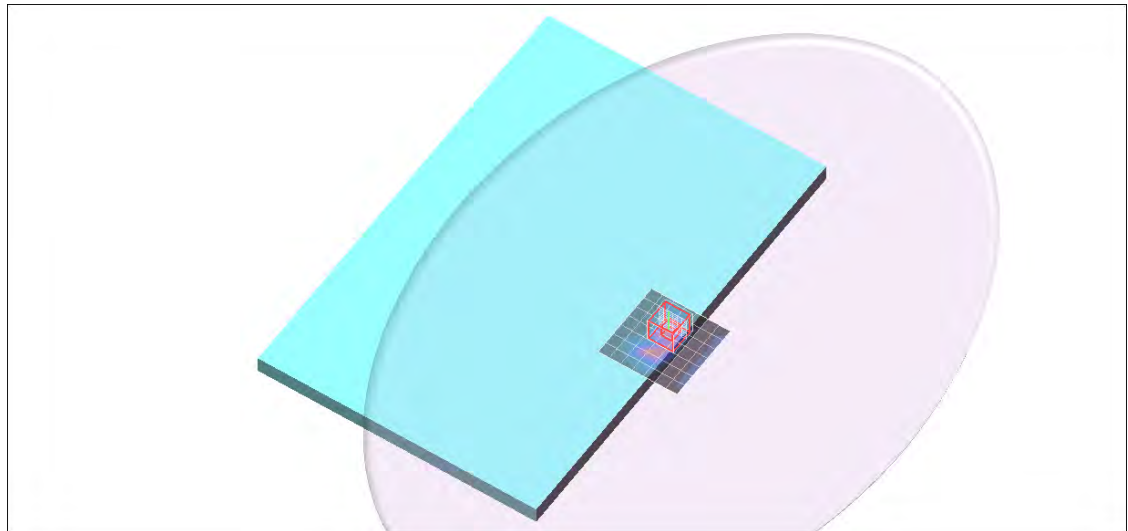
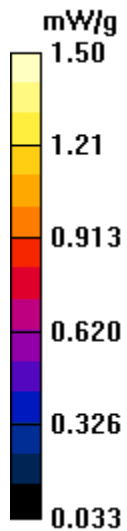
Reference Value = 6.03 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 2.56 W/kg

Peak SAR (extrapolated) = 2.56 W/kg

**SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.241 mW/g**

Maximum value of SAR (measured) = 1.24 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.37$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.801 mW/g

**Bottom/Main Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.88 V/m; Power Drift = 0.144 dB

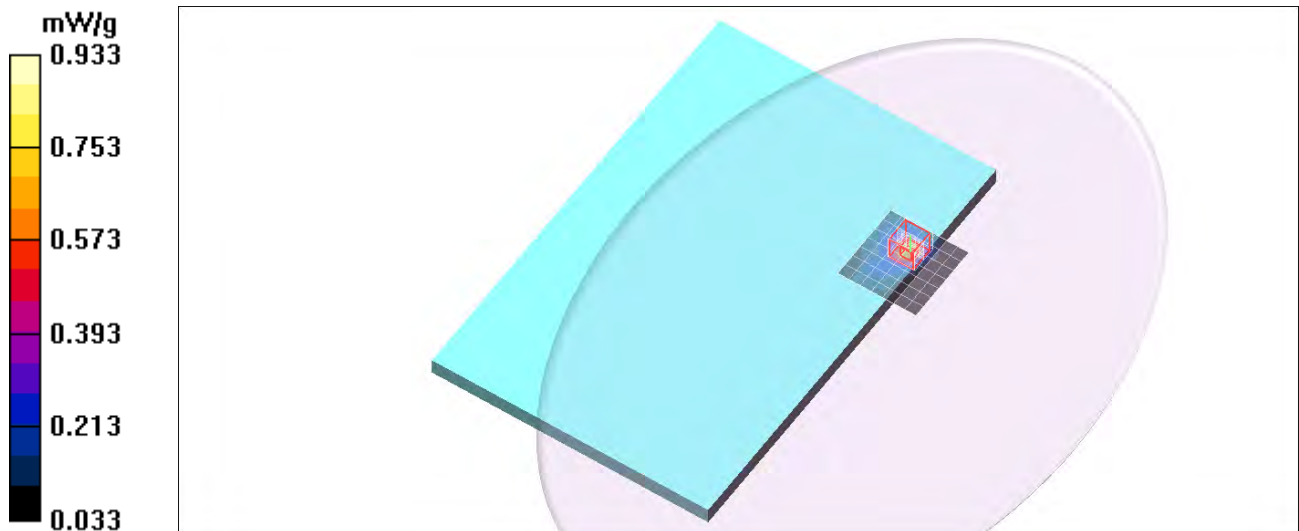
Peak SAR (extrapolated) = 2.20 W/kg

Peak SAR (extrapolated) = 2.20 W/kg

**SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.204 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.933 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.46$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.574 mW/g

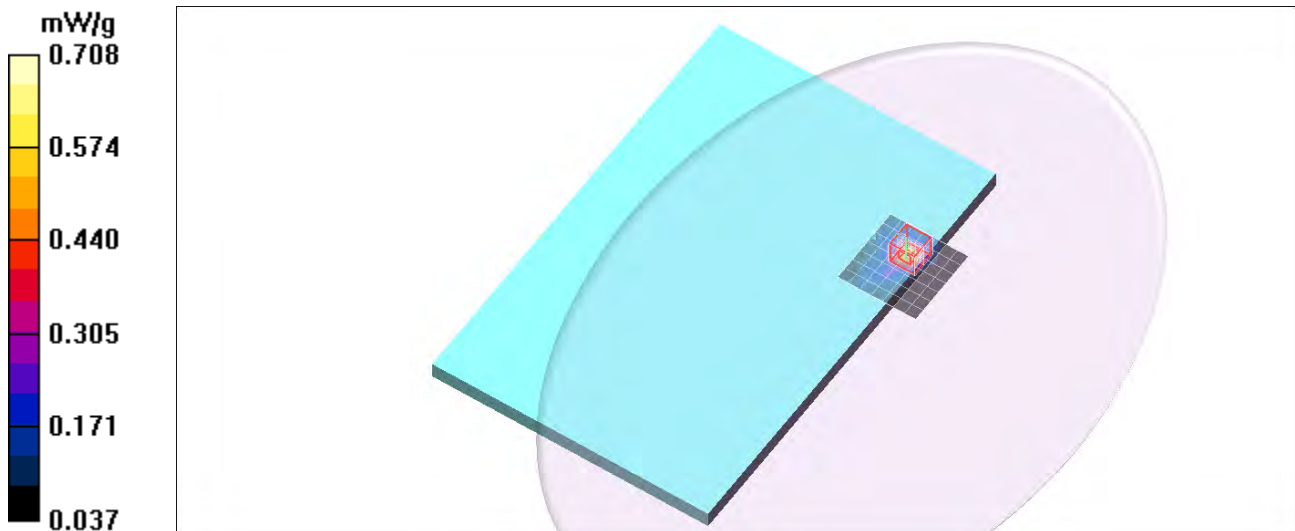
**Bottom/Main Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.38 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 1.66 W/kg

**SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.172 mW/g**

Maximum value of SAR (measured) = 0.708 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.45 mW/g

**Bottom/Main Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

dx=4mm, dy=4mm, dz=2mm

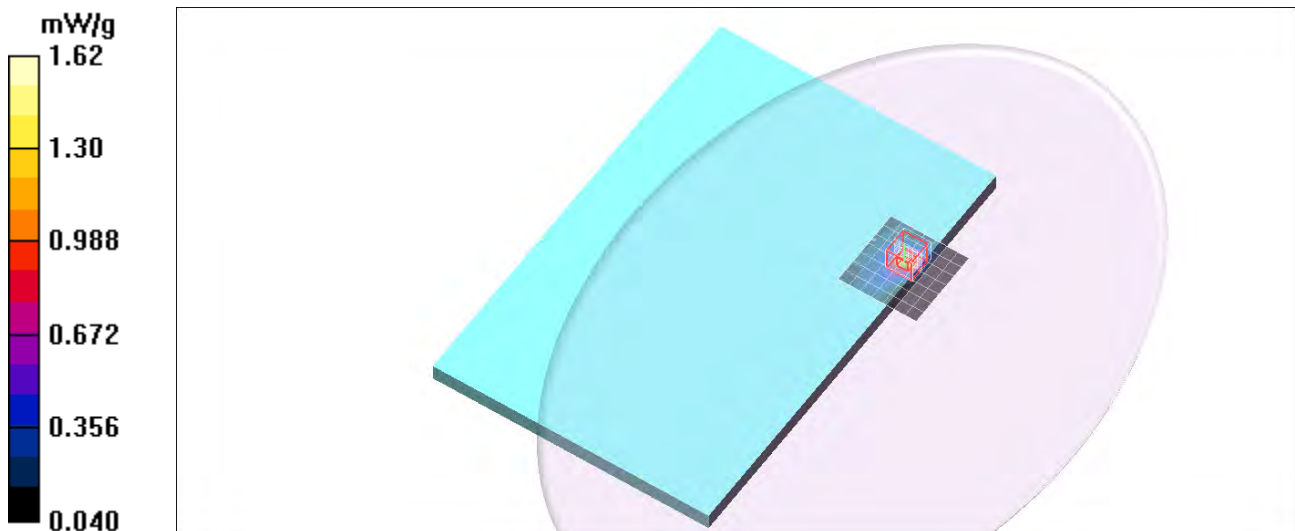
Reference Value = 3.17 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 3.61 W/kg

**SAR(1 g) = 0.838 mW/g; SAR(10 g) = 0.309 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.62 mW/g



## 5GHz Band

Frequency: 5560 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5560.9$  MHz;  $\sigma = 5.79$  mho/m;  $\epsilon_r = 46.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11n HT20/Ch112/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.32 mW/g

**Bottom/Main Ant/802.11n HT20/Ch112/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

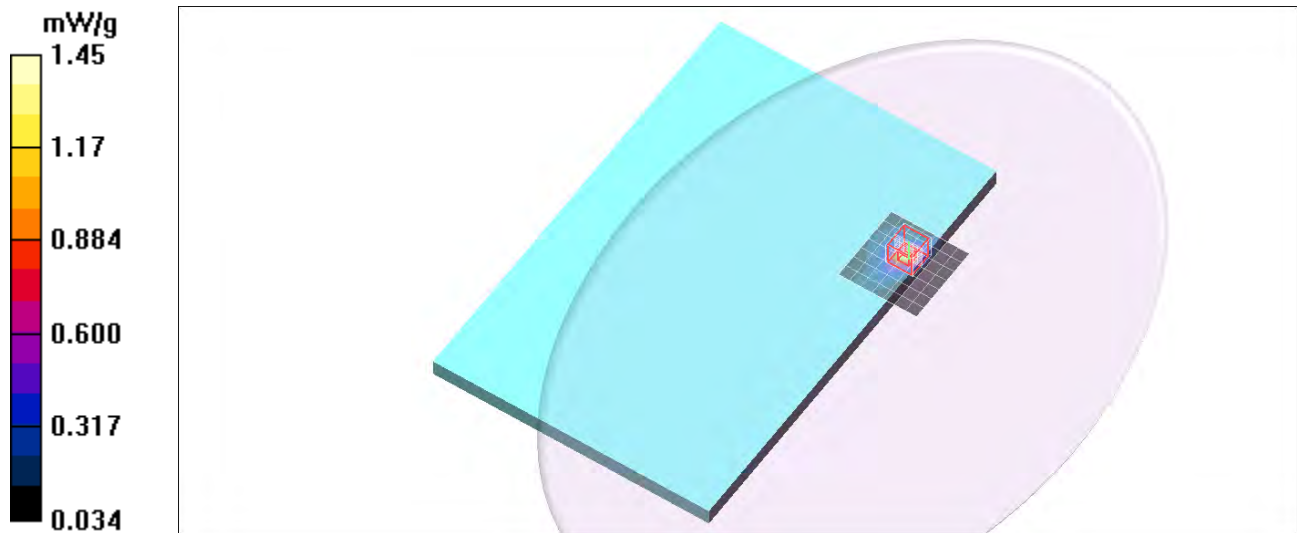
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.75 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 3.24 W/kg

**SAR(1 g) = 0.757 mW/g; SAR(10 g) = 0.267 mW/g**

Maximum value of SAR (measured) = 1.45 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6.09$  mho/m;  $\epsilon_r = 46.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.907 mW/g

**Bottom/Main Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

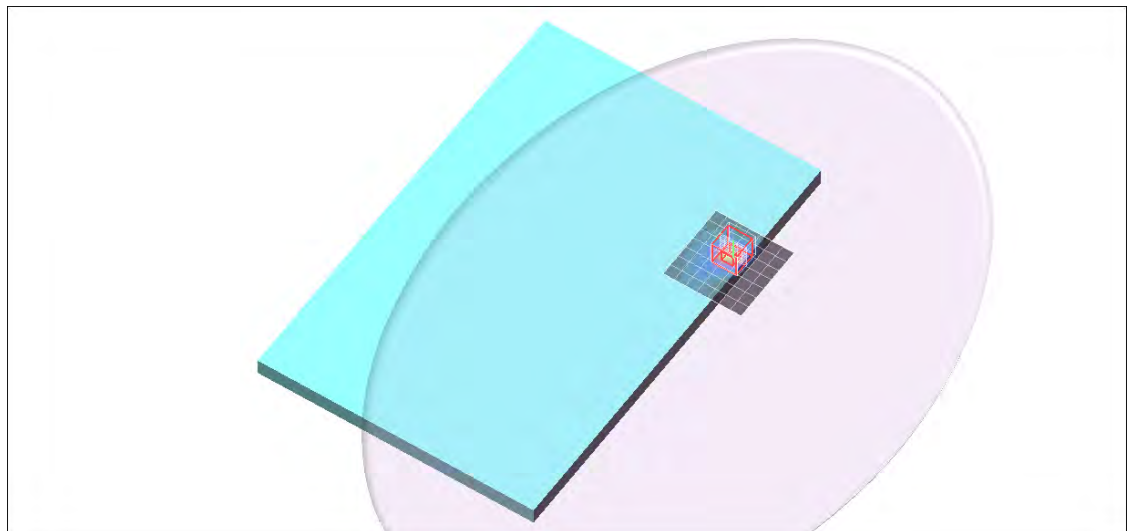
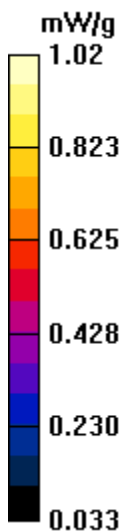
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.75 V/m; Power Drift = 0.178 dB

Peak SAR (extrapolated) = 2.45 W/kg

**SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 1.02 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.37$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.390 mW/g

**Bottom/Aux Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm,

dy=4mm, dz=2mm

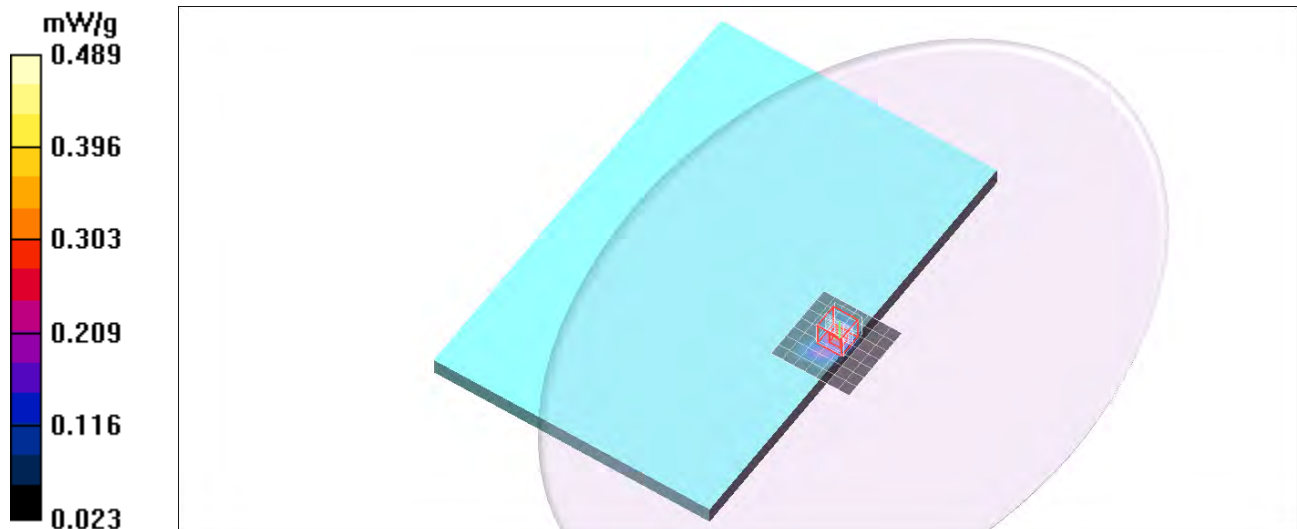
Reference Value = 3.36 V/m; Power Drift = 0.194 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.092 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.489 mW/g



## 5GHz Band

Frequency: 5200 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5200$  MHz;  $\sigma = 5.32$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.633 mW/g

**Bottom/Aux Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm,

dy=4mm, dz=2mm

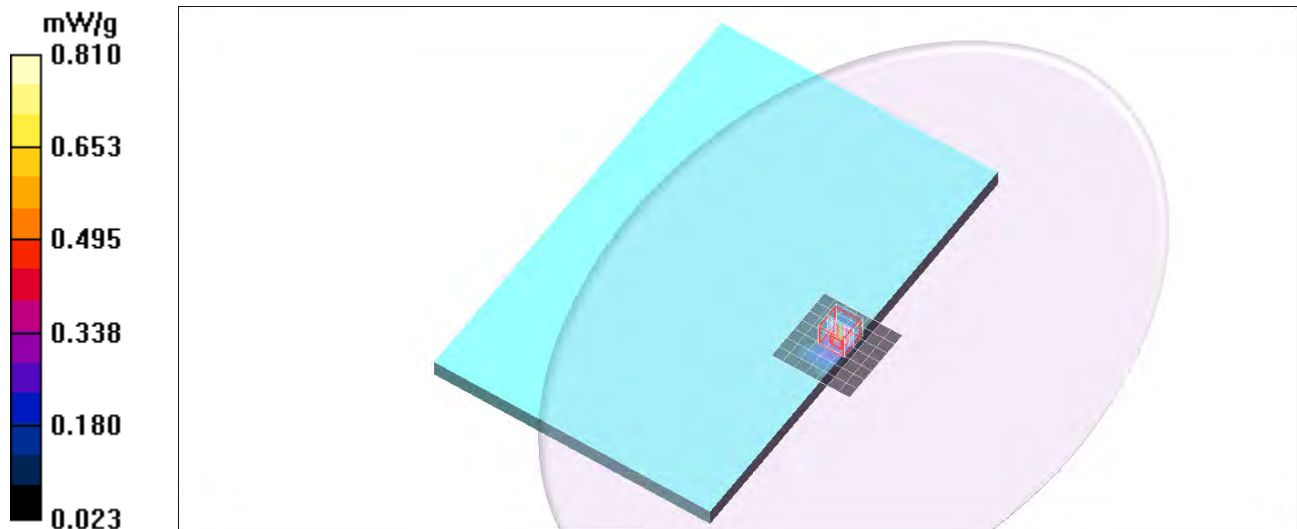
Reference Value = 4.51 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 1.90 W/kg

**SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.131 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.810 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.09 mW/g

**Bottom/Aux Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

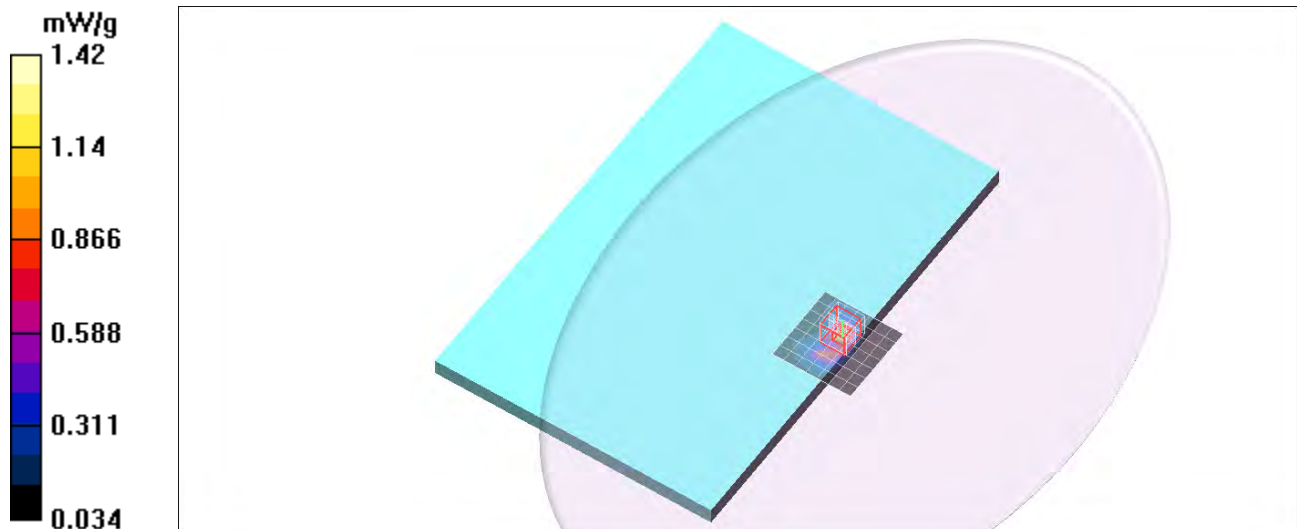
Reference Value = 6.38 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 3.08 W/kg

**SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.234 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.42 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6.09$  mho/m;  $\epsilon_r = 46.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.869 mW/g

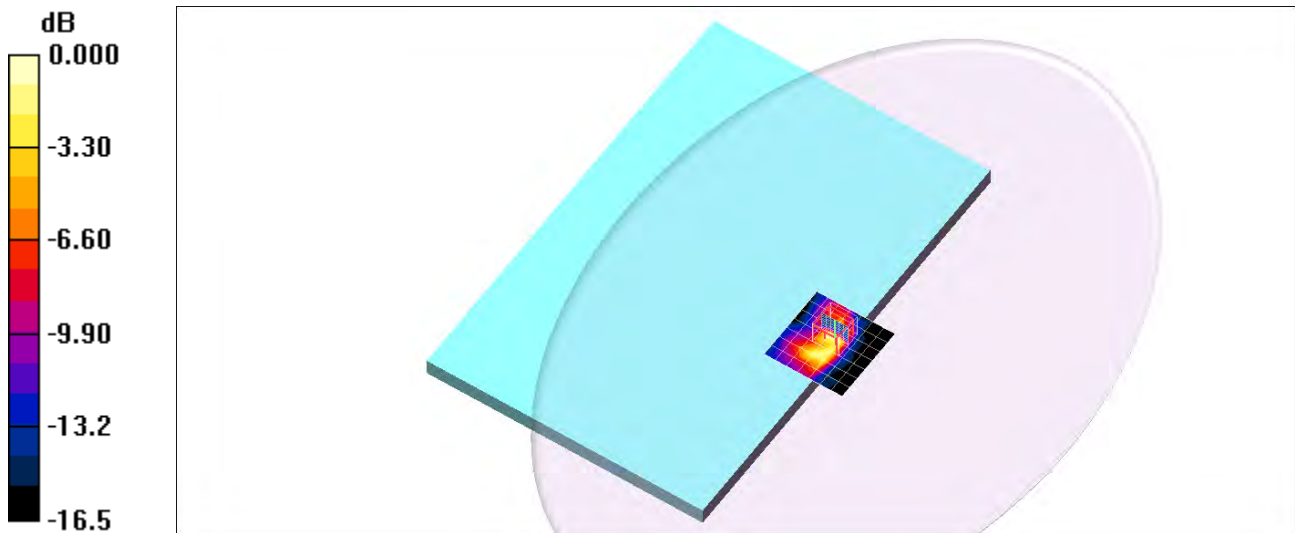
**Bottom/Aux Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.34 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 2.79 W/kg

**SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.205 mW/g**

Maximum value of SAR (measured) = 1.21 mW/g



0 dB = 1.21mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.34$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.357 mW/g

**Bottom/Main Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

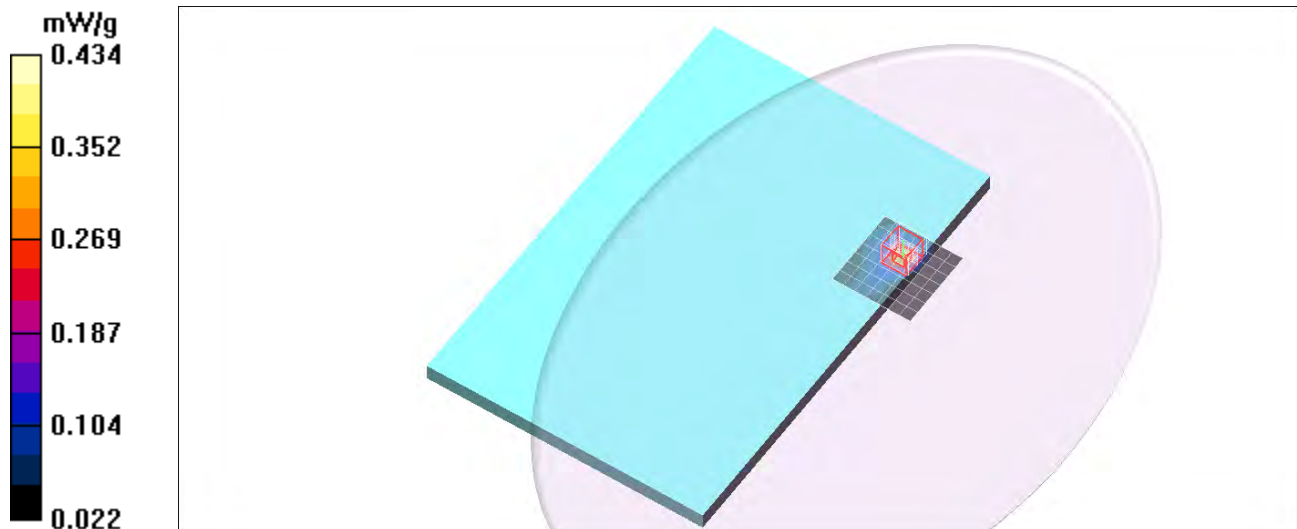
Reference Value = 2.46 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 0.946 W/kg

**SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.101 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.434 mW/g



## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.47$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.366 mW/g

**Bottom/Main Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

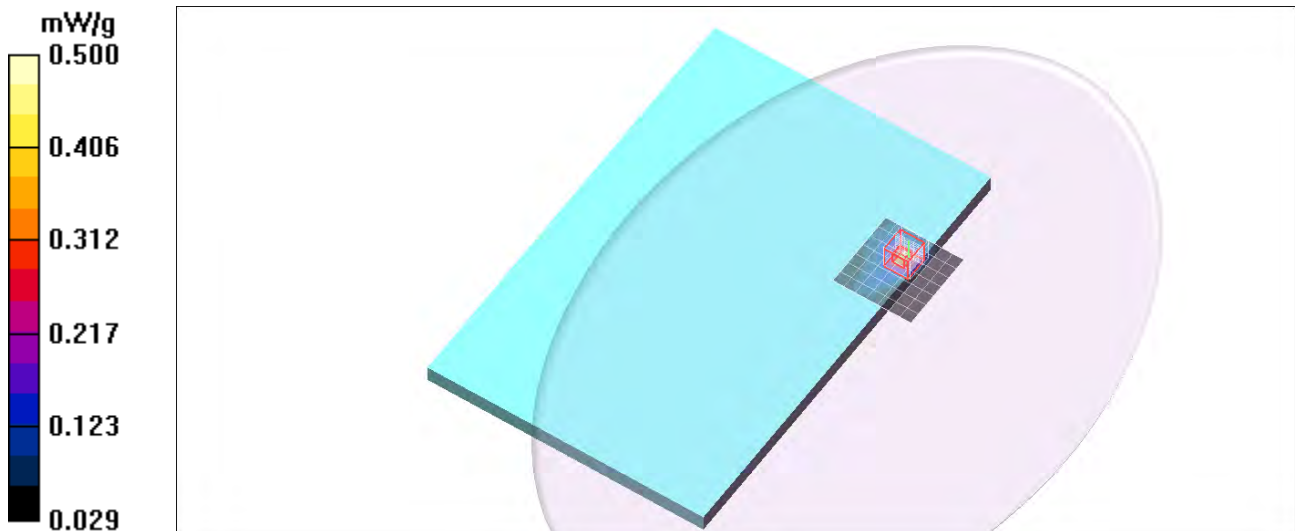
Reference Value = 2.43 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 0.952 W/kg

Peak SAR (extrapolated) = 0.952 W/kg

**SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.161 mW/g**

Maximum value of SAR (measured) = 0.674 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.95$  mho/m;  $\epsilon_r = 46.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.36 mW/g

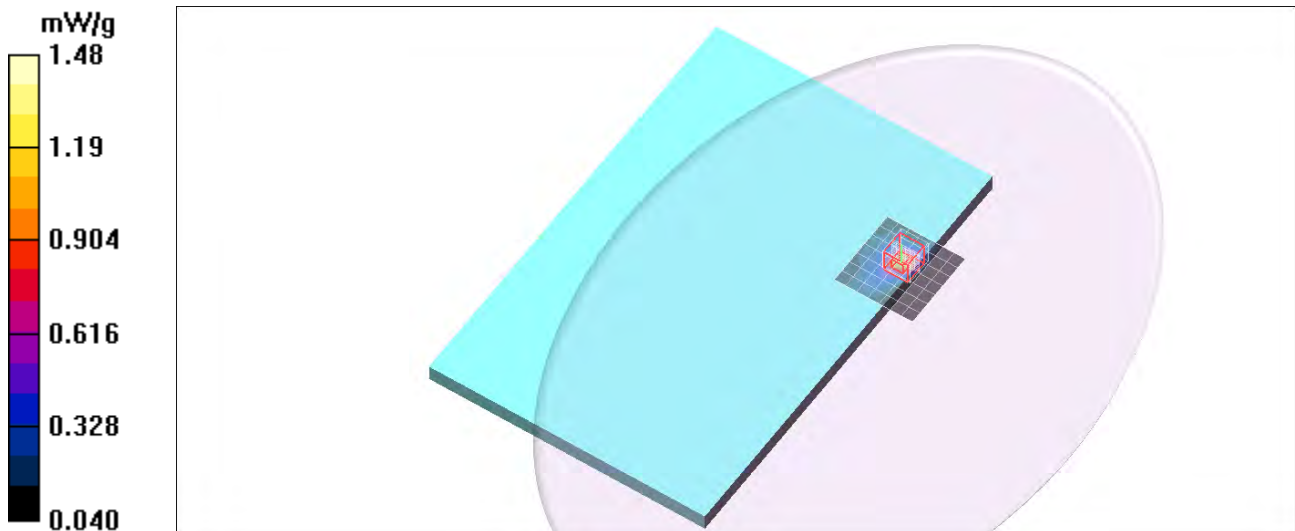
**Bottom/Main Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.97 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 5.95 W/kg

**SAR(1 g) = 0.839 mW/g; SAR(10 g) = 0.319 mW/g**

Maximum value of SAR (measured) = 1.48 mW/g



## 5GHz Band

Frequency: 5690 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5690$  MHz;  $\sigma = 5.99$  mho/m;  $\epsilon_r = 46.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11ac/Ch138/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.36 mW/g

**Bottom/Main Ant/802.11ac/Ch138/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

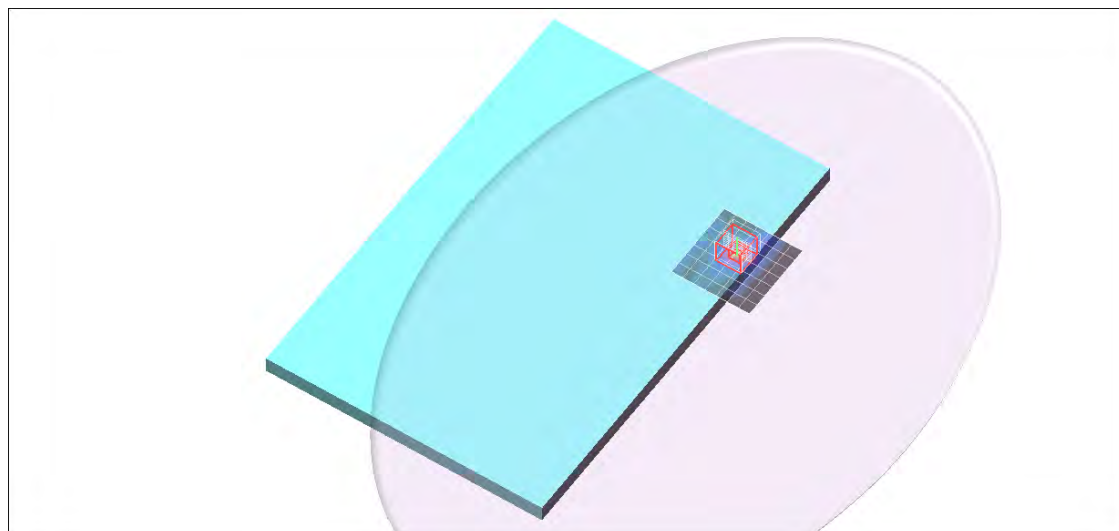
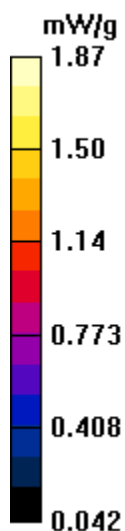
Reference Value = 2.98 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 5.68 W/kg

**SAR(1 g) = 0.899 mW/g; SAR(10 g) = 0.346 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.87 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 6.07$  mho/m;  $\epsilon_r = 46.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Main Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.07 mW/g

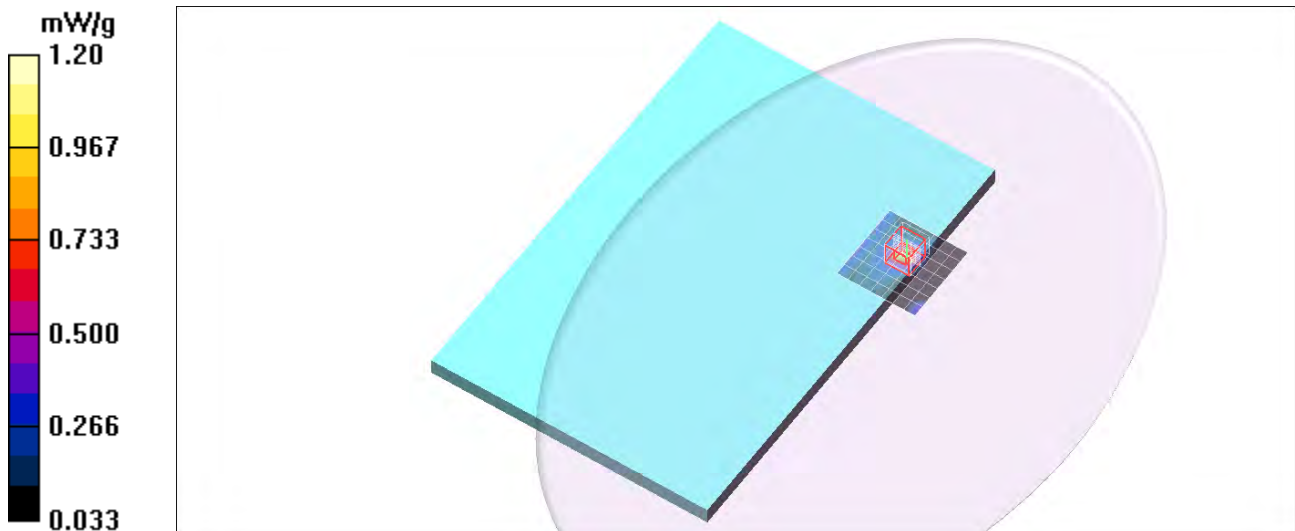
**Bottom/Main Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.82 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 2.82 W/kg

**SAR(1 g) = 0.633 mW/g; SAR(10 g) = 0.252 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.34$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.500 mW/g

**Bottom/Aux Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.20 V/m; Power Drift = -0.156 dB

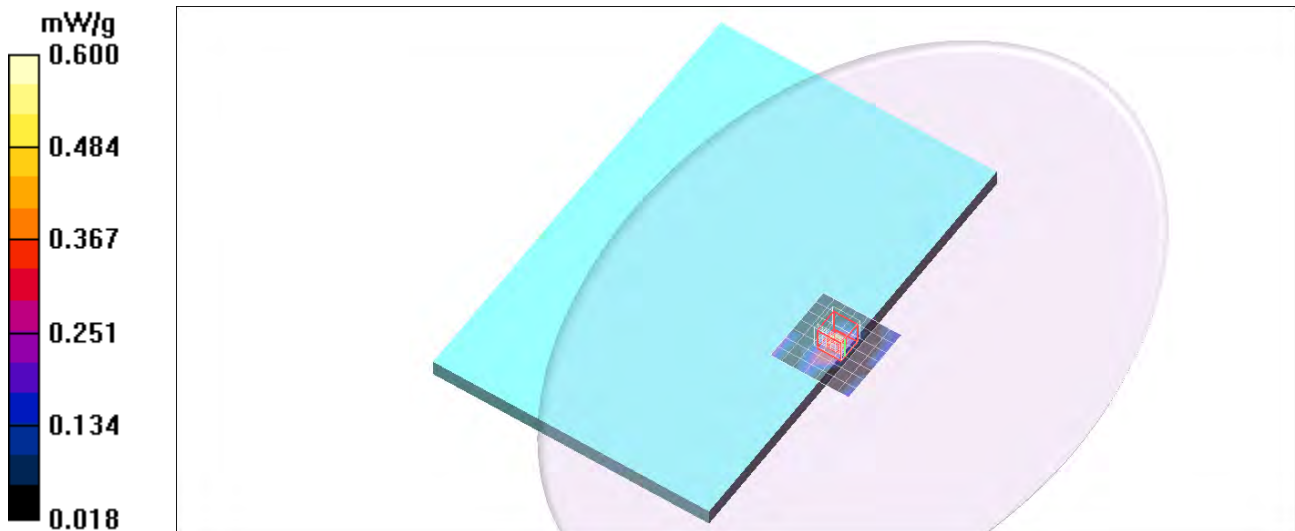
Peak SAR (extrapolated) = 0.706 W/kg

Peak SAR (extrapolated) = 0.706 W/kg

**SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.105 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.513 mW/g



## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.47$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.840 mW/g

**Bottom/Aux Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

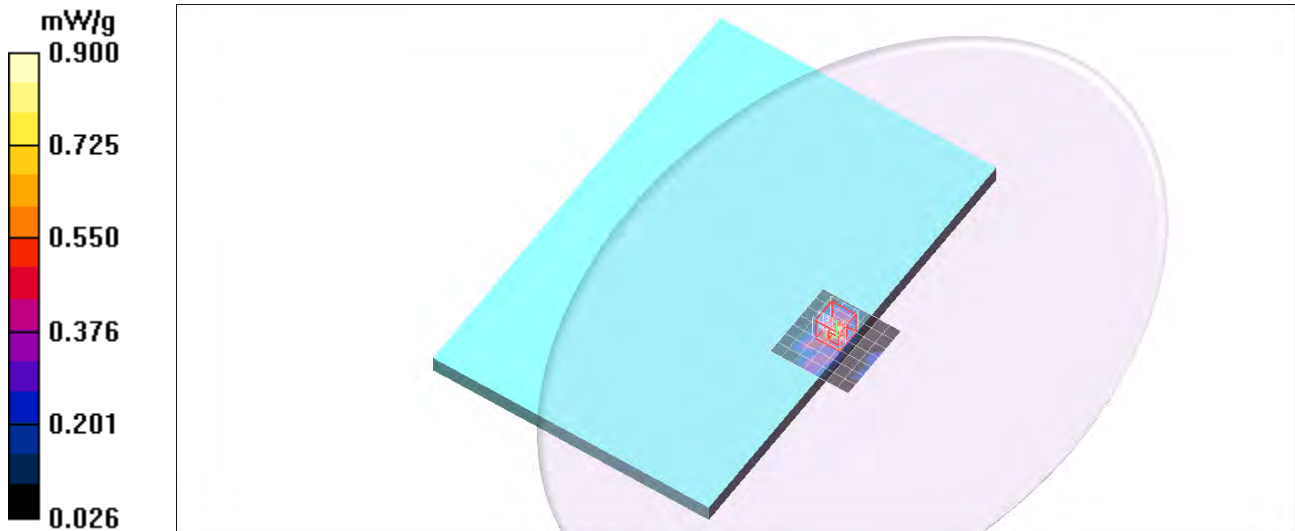
Reference Value = 4.31 V/m; Power Drift = 0.173 dB

Peak SAR (extrapolated) = 1.88 W/kg

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.146 mW/g**

Maximum value of SAR (measured) = 0.753 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.95$  mho/m;  $\epsilon_r = 46.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.27 mW/g

**Bottom/Aux Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

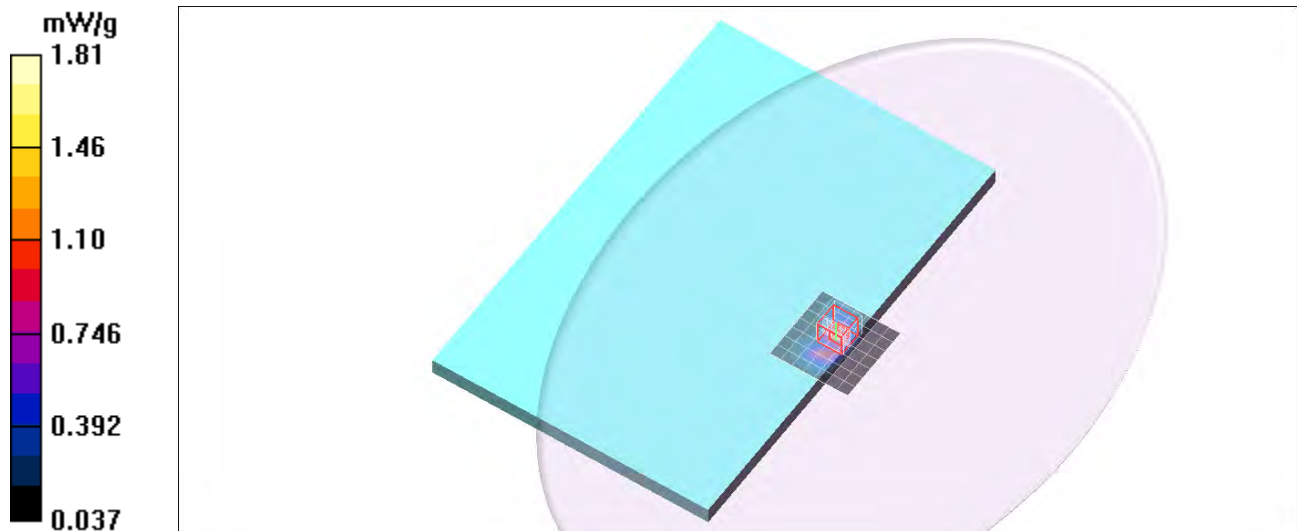
Reference Value = 6.49 V/m; Power Drift = 0.133 dB

Peak SAR (extrapolated) = 3.64 W/kg

Peak SAR (extrapolated) = 3.64 W/kg

**SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.451 mW/g**

Maximum value of SAR (measured) = 1.81 mW/g





## 5GHz Band

Frequency: 5690 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5690$  MHz;  $\sigma = 5.99$  mho/m;  $\epsilon_r = 46.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11ac/Ch138/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.17 mW/g

**Bottom/Aux Ant/802.11ac/Ch138/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

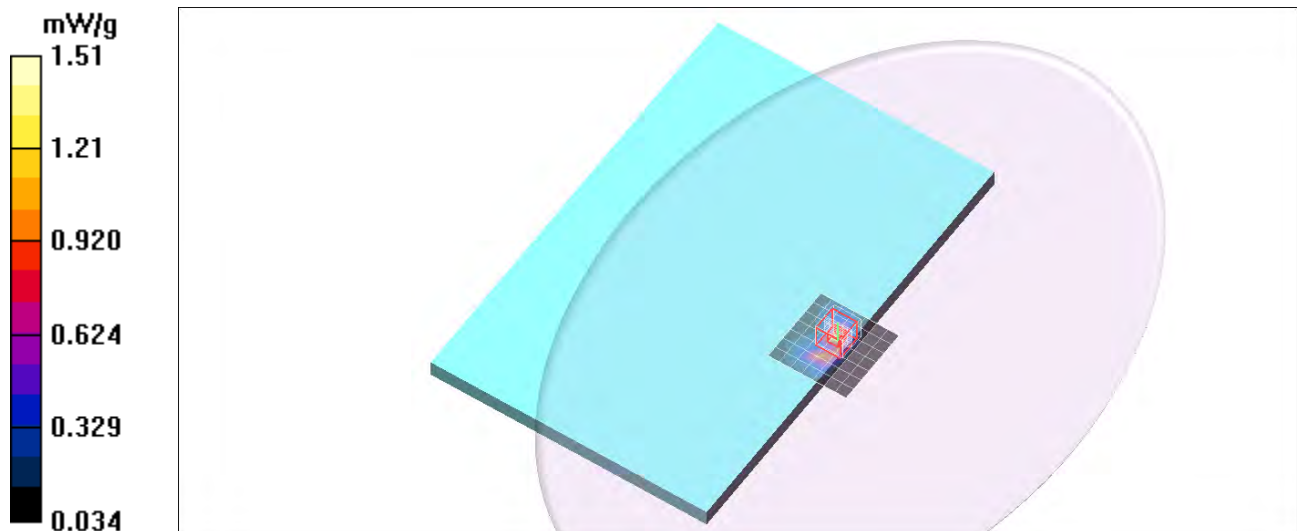
Reference Value = 6.66 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 3.35 W/kg

**SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.264 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.51 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 6.07$  mho/m;  $\epsilon_r = 46.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.940 mW/g

**Bottom/Aux Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

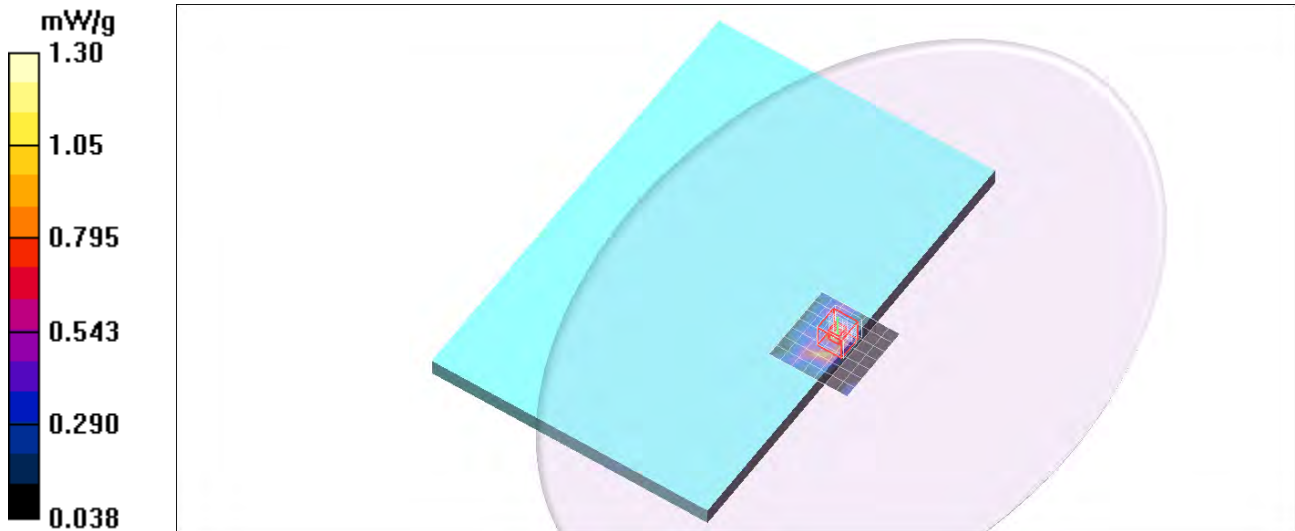
Reference Value = 9.16 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 2.58 W/kg

Peak SAR (extrapolated) = 2.58 W/kg

**SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.254 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.95$  mho/m;  $\epsilon_r = 46.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Bottom/Aux Ant/802.11ac/Ch122\_Repeat/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.26 mW/g

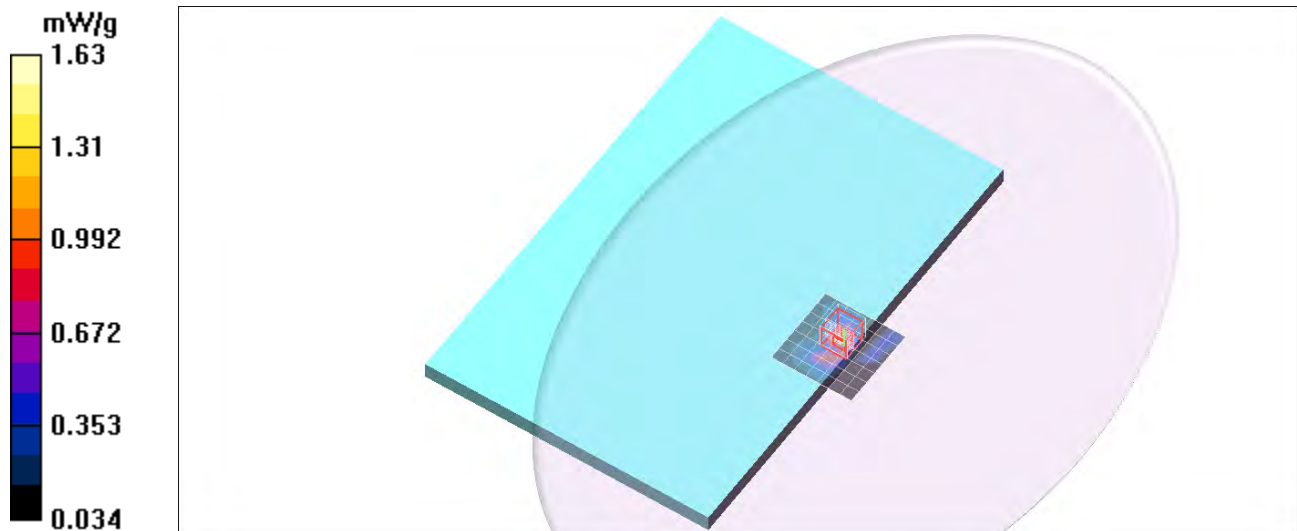
**Bottom/Aux Ant/802.11ac/Ch122\_Repeat/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.59 V/m; Power Drift = 0.080 dB

Peak SAR (extrapolated) = 4.07 W/kg

**SAR(1 g) = 0.904 mW/g; SAR(10 g) = 0.319 mW/g**

Maximum value of SAR (measured) = 1.63 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.672 mW/g

**Rear/Main Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

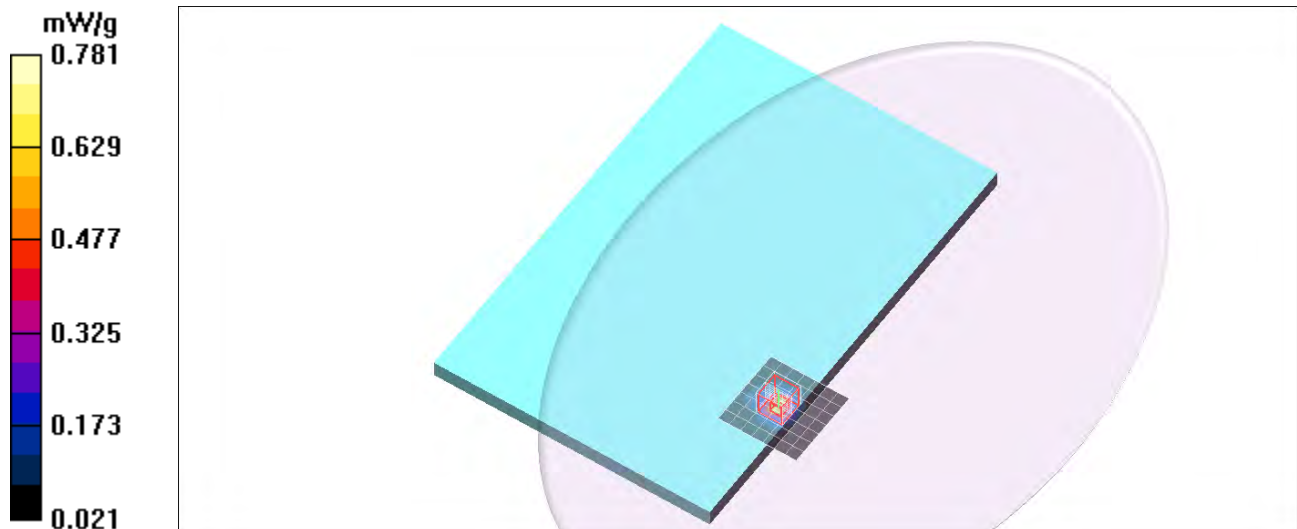
Reference Value = 2.32 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.152 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.781 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.484 mW/g

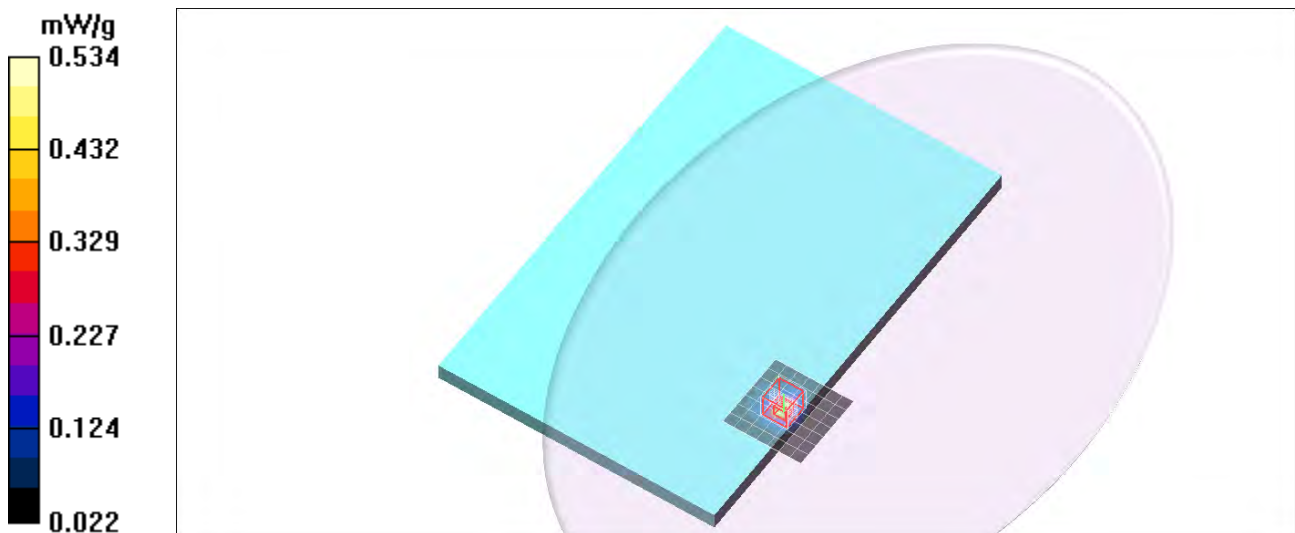
**Rear/Main Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.93 V/m; Power Drift = 0.172 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.115 mW/g**

Maximum value of SAR (measured) = 0.534 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.756 mW/g

**Rear/Main Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

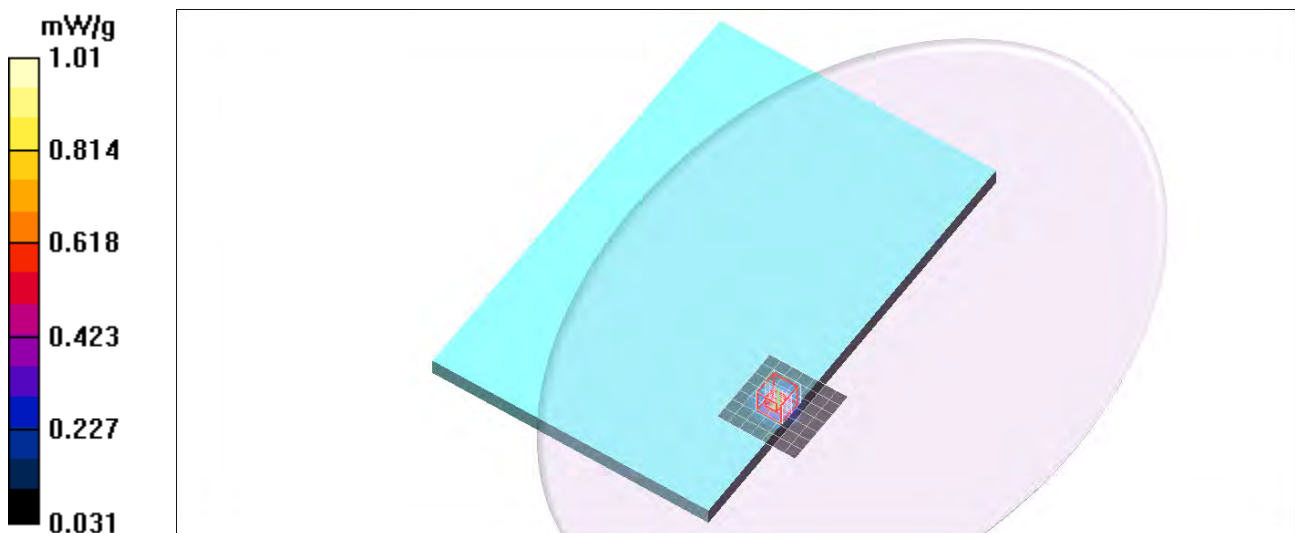
Reference Value = 2.43 V/m; Power Drift = 0.145 dB

Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.190 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.01 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.523 mW/g

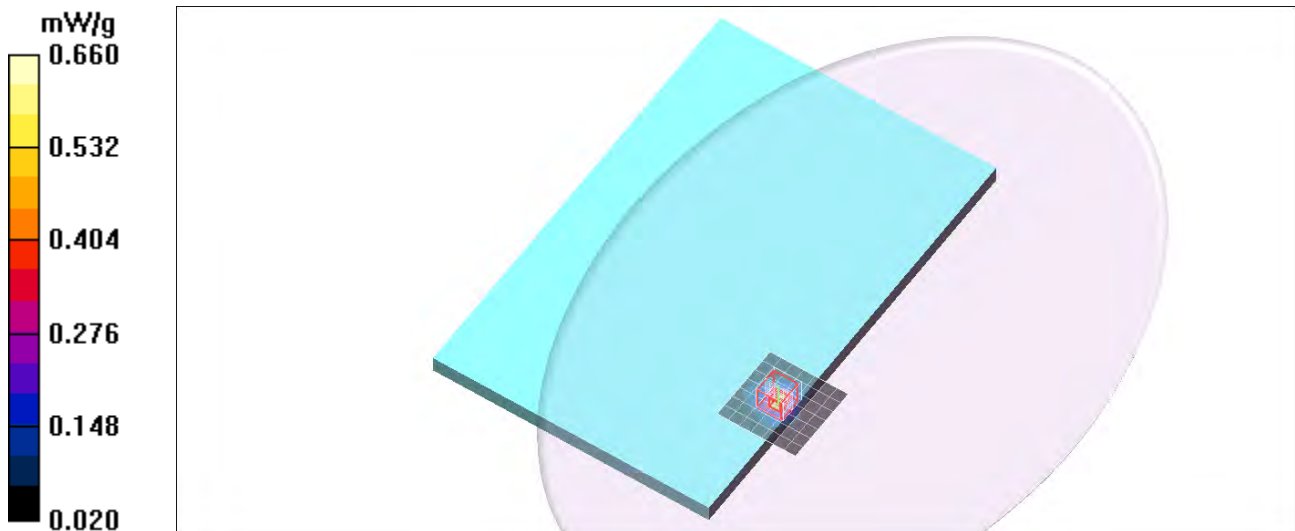
**Rear/Main Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.07 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.335 mW/g; SAR(10 g) = 0.128 mW/g**

Maximum value of SAR (measured) = 0.660 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.133 mW/g

**Rear/Aux Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

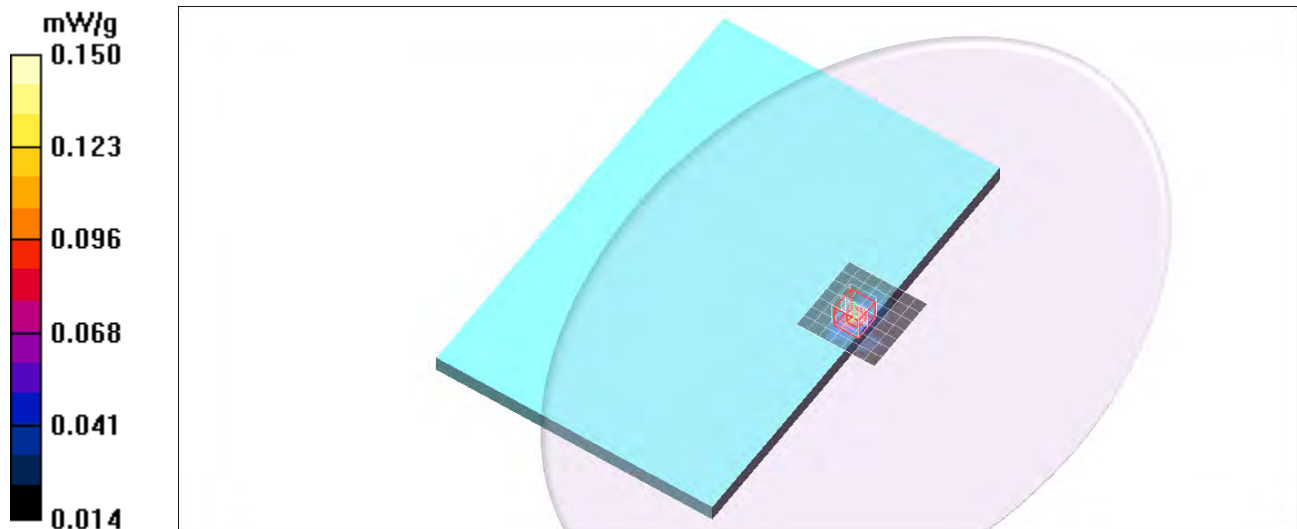
Reference Value = 3.03 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.451 W/kg

**SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.047 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.250 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.251 mW/g

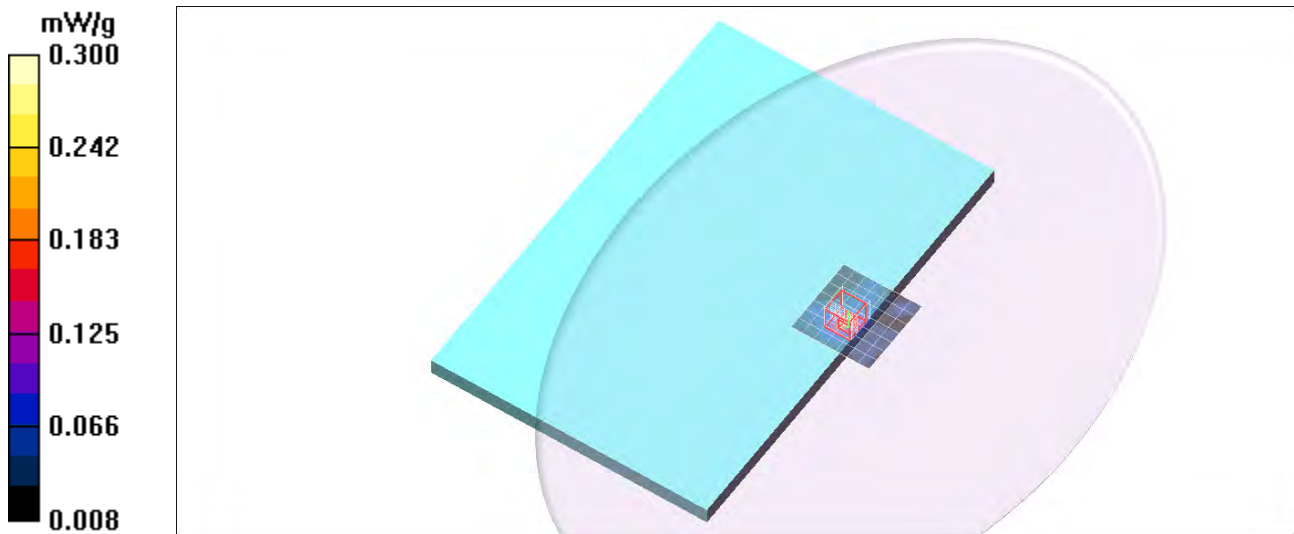
**Rear/Aux Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.51 V/m; Power Drift = 0.179 dB

Peak SAR (extrapolated) = 0.701 W/kg

**SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.648 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.383 mW/g

**Rear/Aux Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

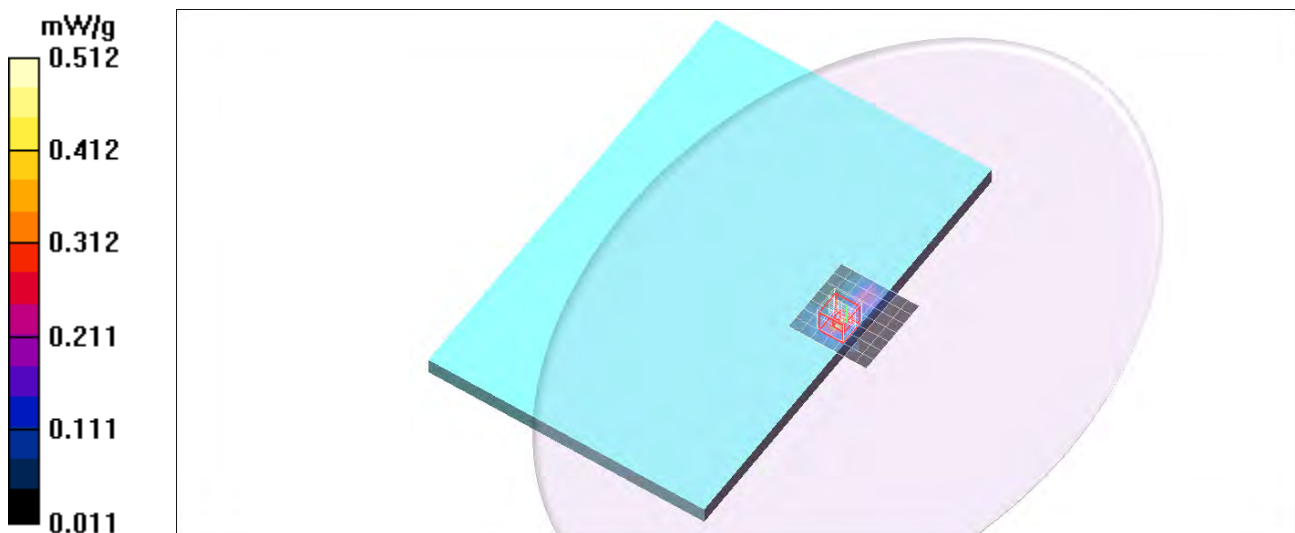
Reference Value = 4.14 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.094 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.512 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.299 mW/g

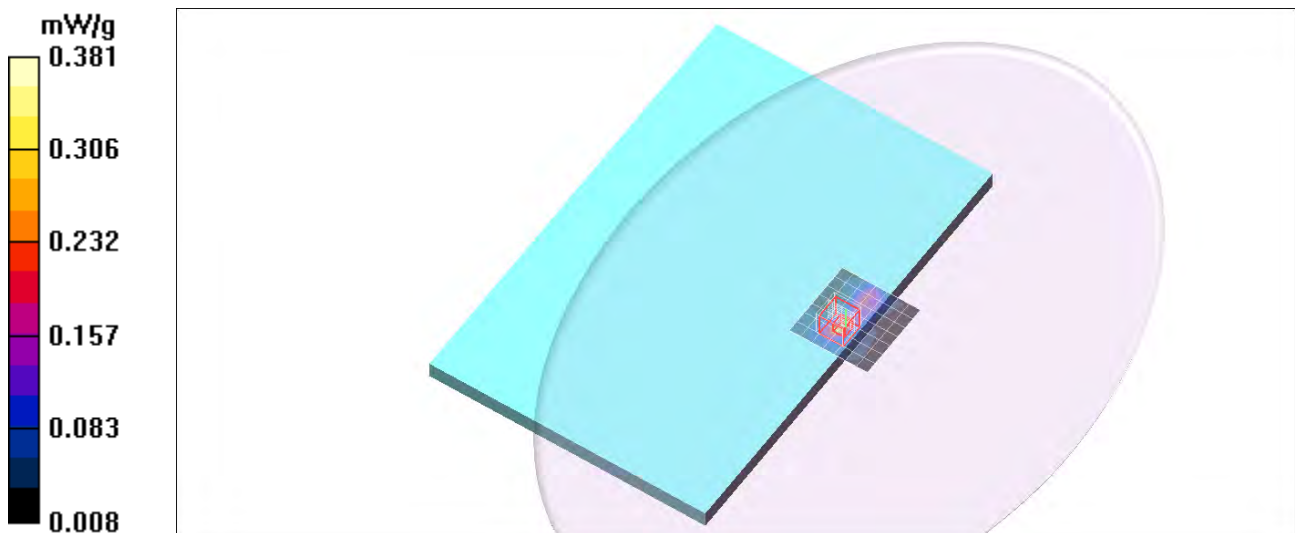
**Rear/Aux Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.32 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.731 W/kg

**SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.074 mW/g**

Maximum value of SAR (measured) = 0.381 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.487 mW/g

**Rear/Main Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.30 V/m; Power Drift = -0.192 dB

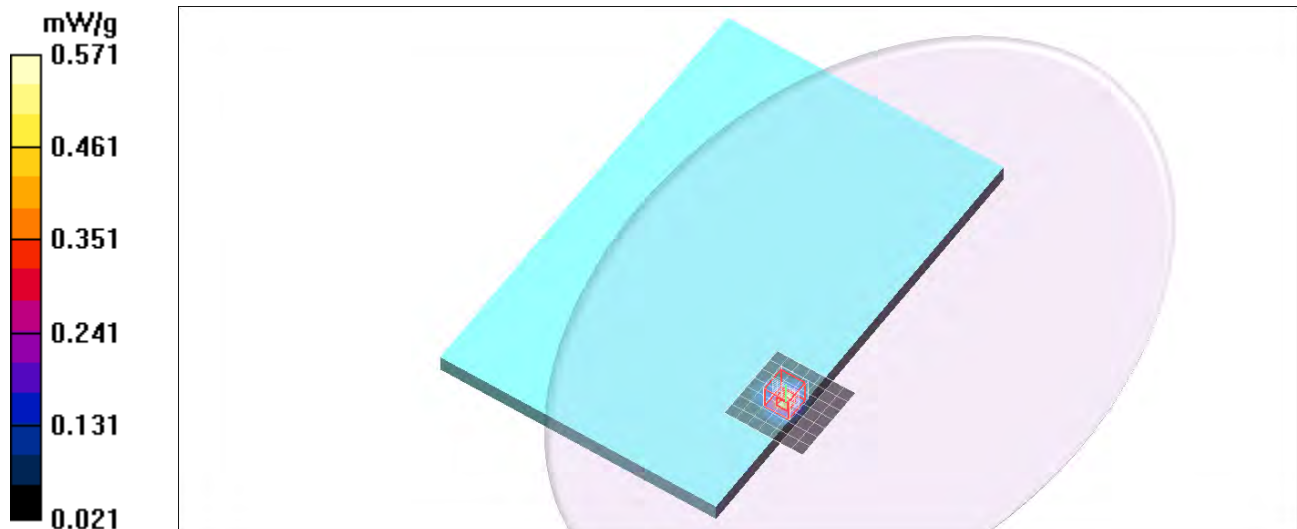
Peak SAR (extrapolated) = 1.34 W/kg

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.119 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.571 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.436 mW/g

**Rear/Main Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

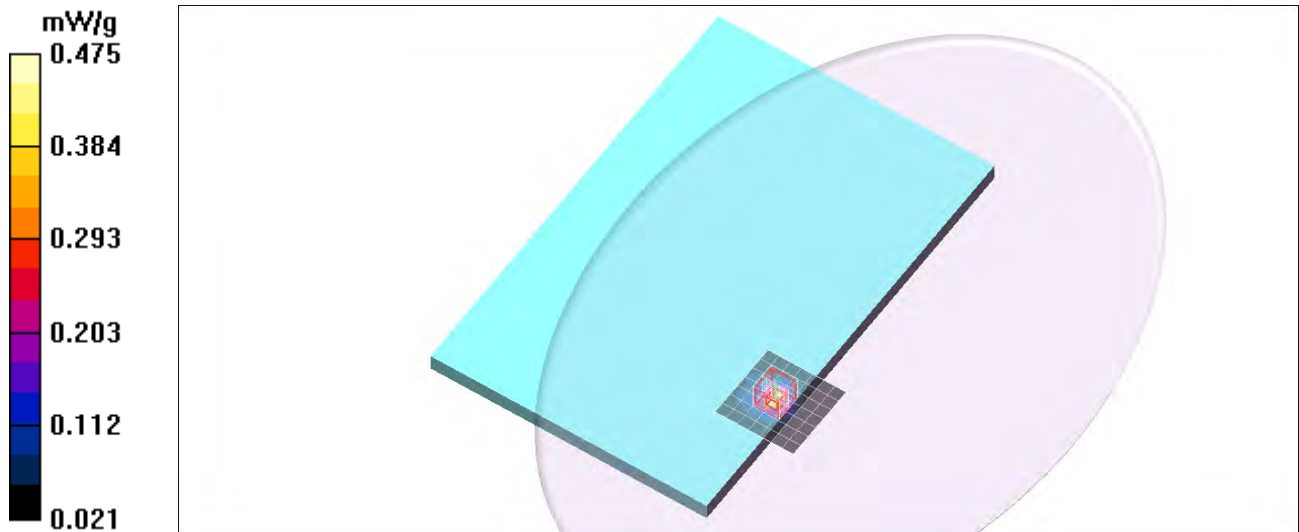
Reference Value = 2.26 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 1.20 W/kg

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.104 mW/g**

Maximum value of SAR (measured) = 0.475 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.914 mW/g

**Rear/Main Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.67 V/m; Power Drift = -0.117 dB

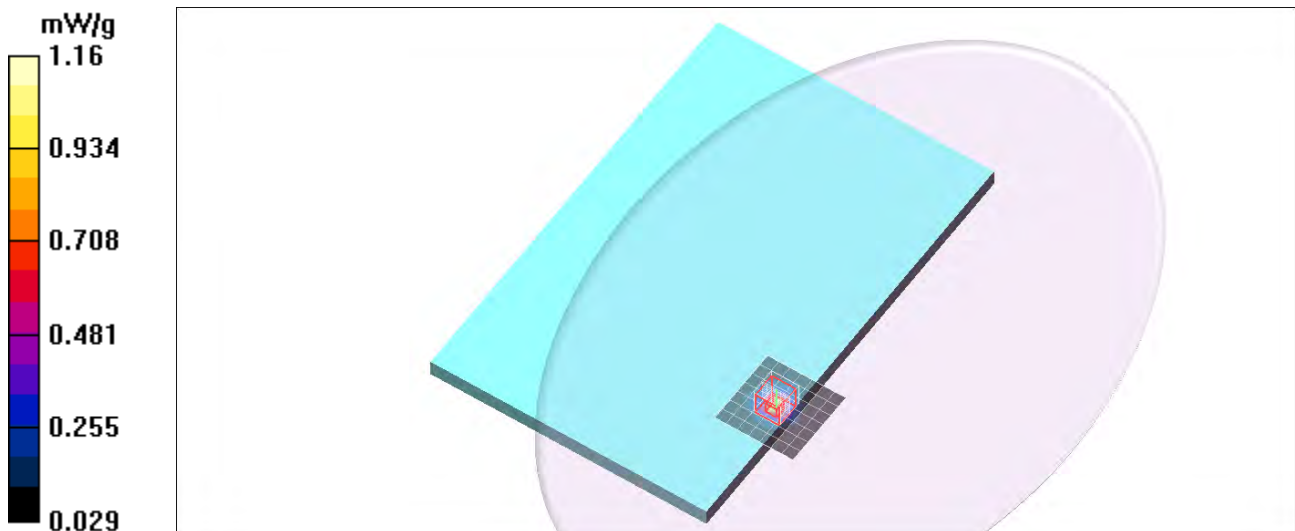
Peak SAR (extrapolated) = 2.65 W/kg

Peak SAR (extrapolated) = 2.65 W/kg

**SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.224 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.16 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.433 mW/g

**Rear/Main Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

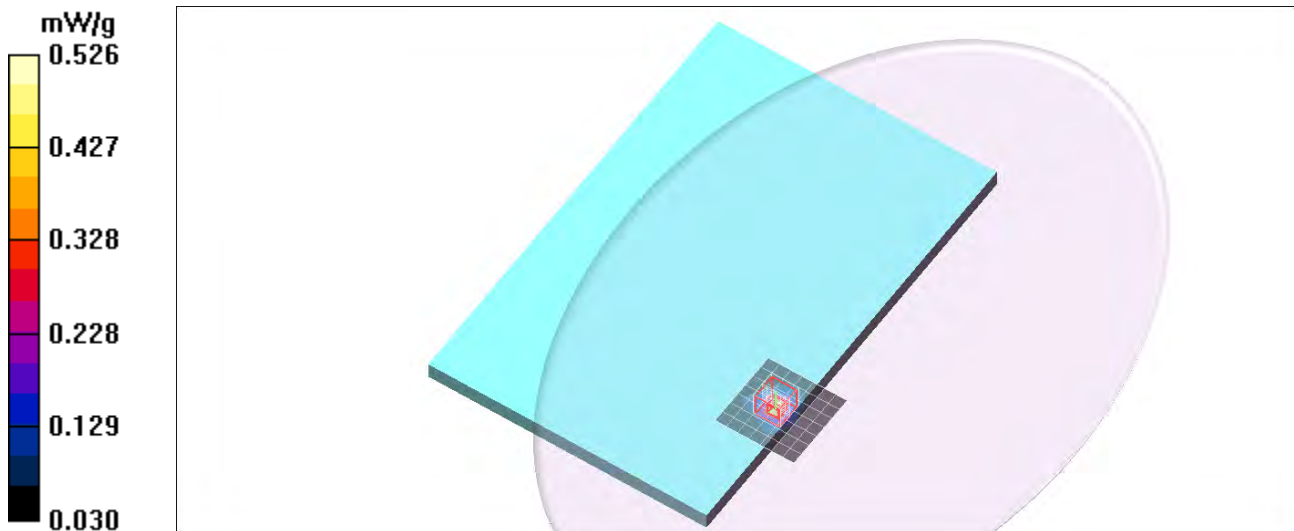
Reference Value = 2.42 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 1.34 W/kg

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.110 mW/g**

Maximum value of SAR (measured) = 0.526 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.089 mW/g

**Rear/Aux Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm,

dy=4mm, dz=2mm

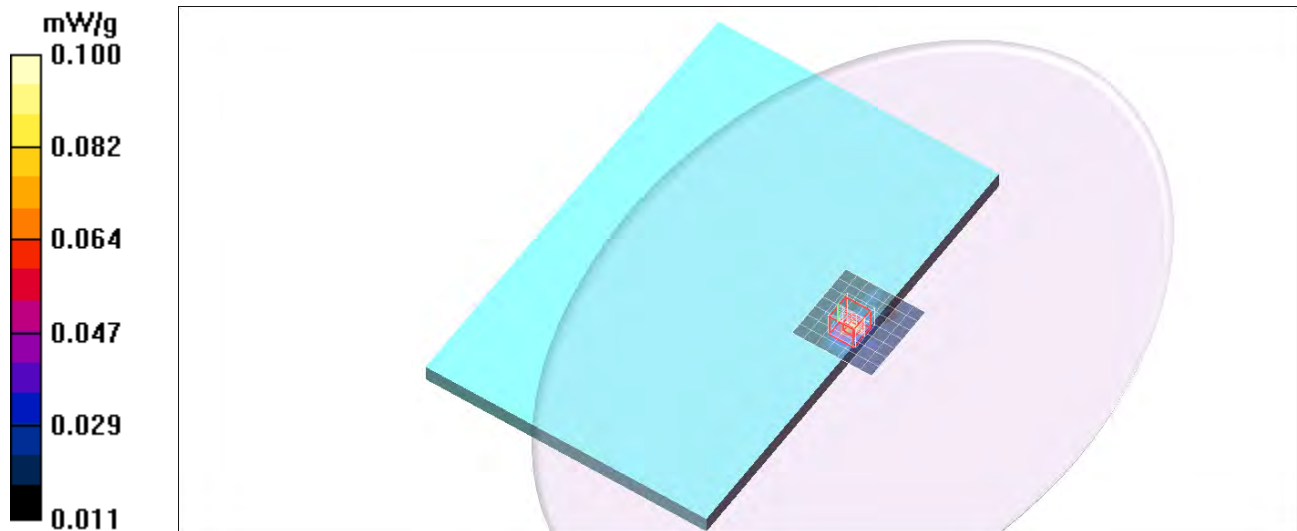
Reference Value = 2.92 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.570 W/kg

**SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.041 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.497 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.193 mW/g

**Rear/Aux Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

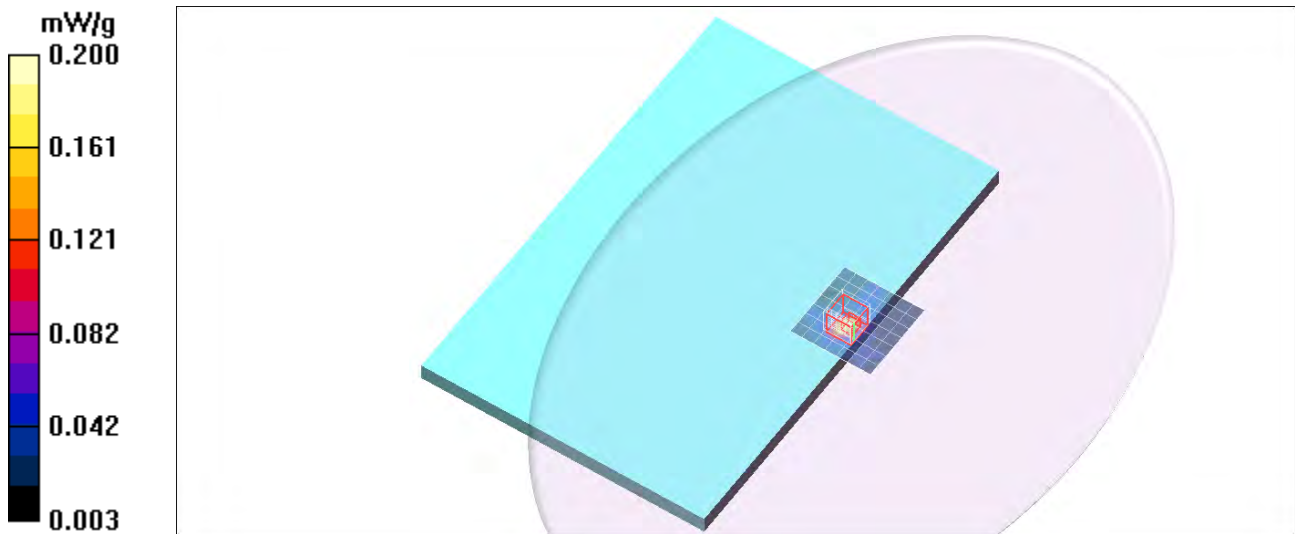
Reference Value = 3.16 V/m; Power Drift = 0.153 dB

Peak SAR (extrapolated) = 0.865 W/kg

Peak SAR (extrapolated) = 0.865 W/kg

**SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.361 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.339 mW/g

**Rear/Aux Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

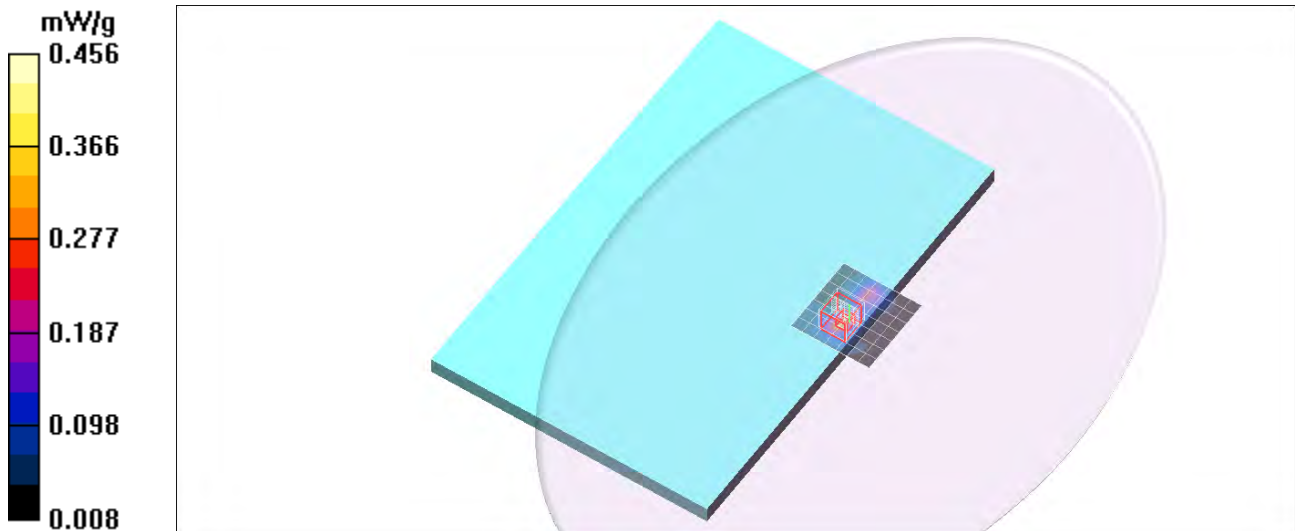
Reference Value = 4.15 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 0.877 W/kg

**SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.085 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.456 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.253 mW/g

**Rear/Aux Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm,

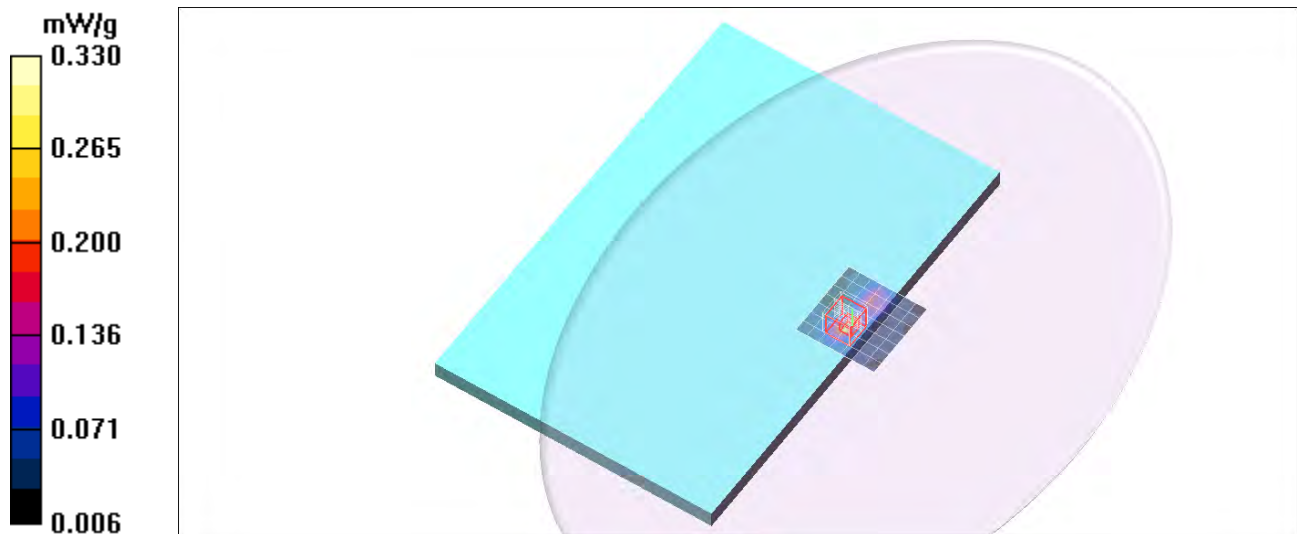
dy=4mm, dz=2mm

Reference Value = 3.28 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 0.620 W/kg

**SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.067 mW/g**

Maximum value of SAR (measured) = 0.330 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.21$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.285 mW/g

**Rear/Main Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

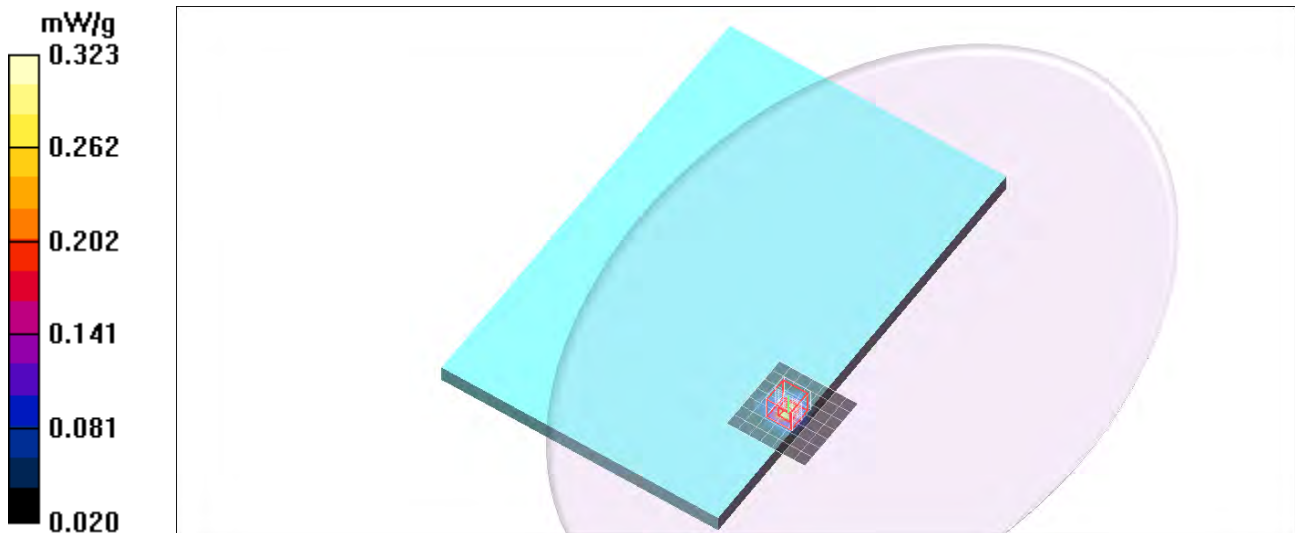
Reference Value = 2.14 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.909 W/kg

**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.080 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.323 mW/g



## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.3$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.282 mW/g

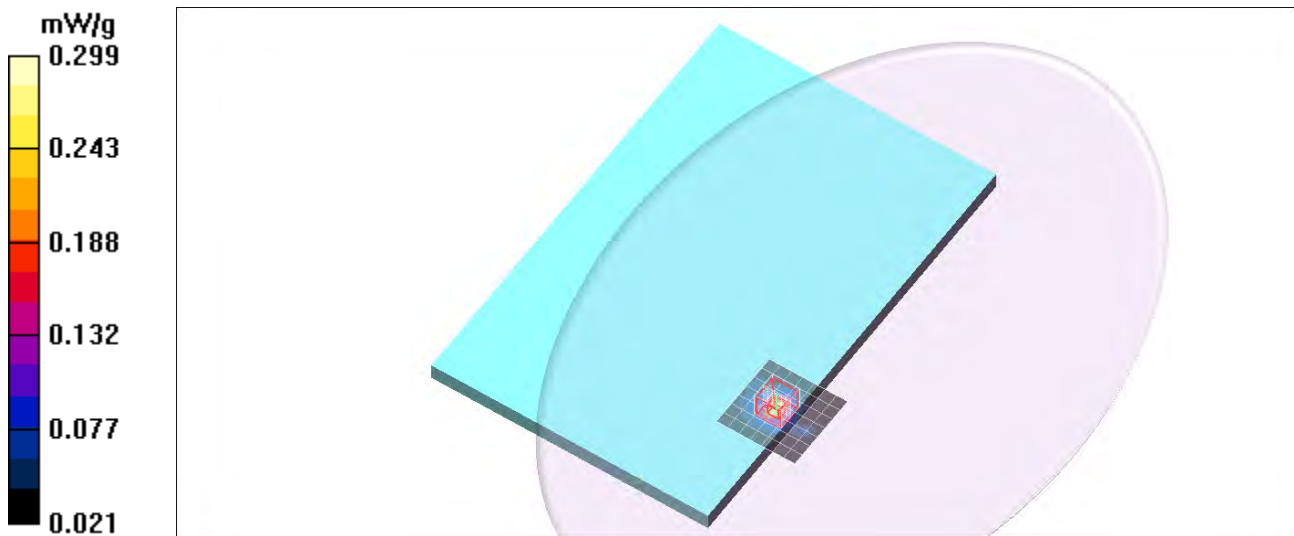
**Rear/Main Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.20 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.735 W/kg

**SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.075 mW/g**

Maximum value of SAR (measured) = 0.299 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.69$  mho/m;  $\epsilon_r = 48.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.859 mW/g

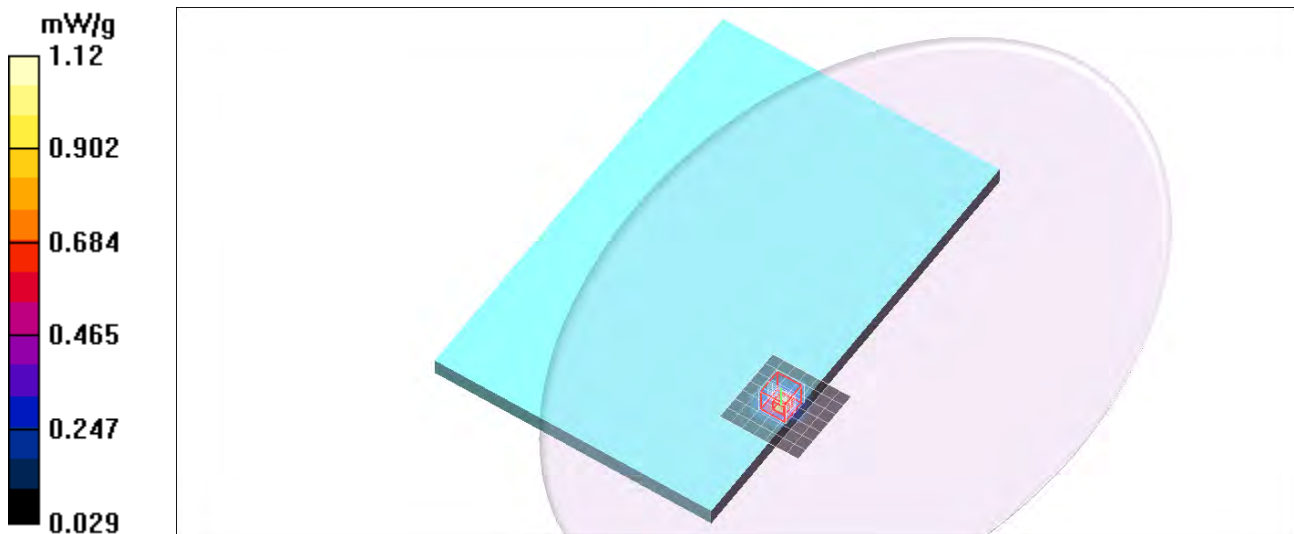
**Rear/Main Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.35 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 2.57 W/kg

**SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.200 mW/g**

Maximum value of SAR (measured) = 1.12 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.9$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.538 mW/g

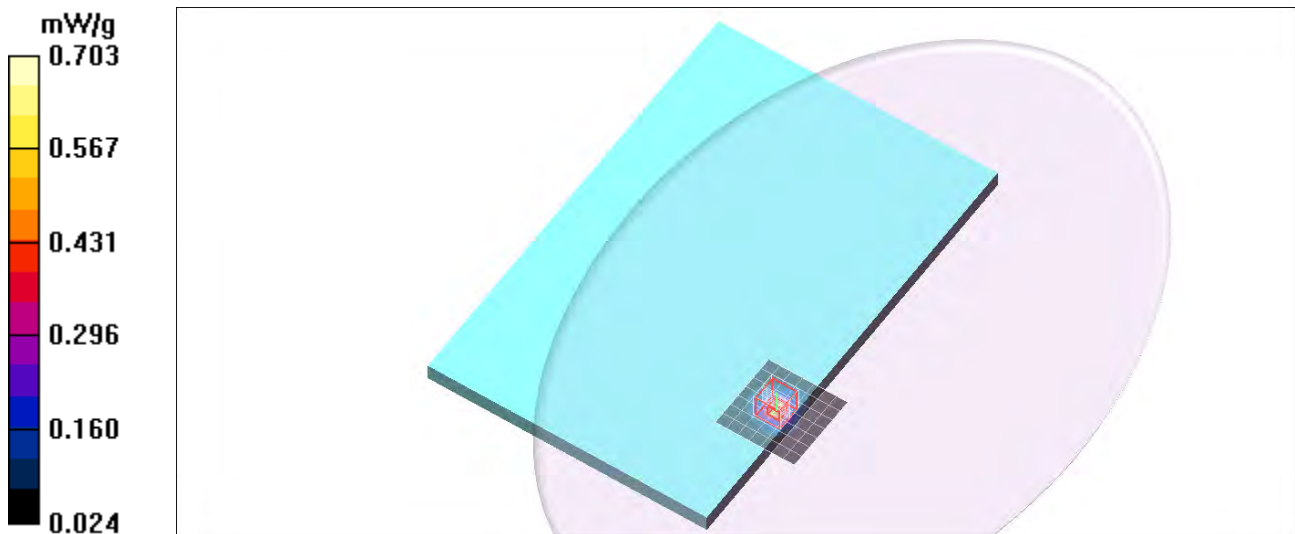
**Rear/Main Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.44 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.132 mW/g**

Maximum value of SAR (measured) = 0.703 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.21$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.054 mW/g

**Rear/Aux Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

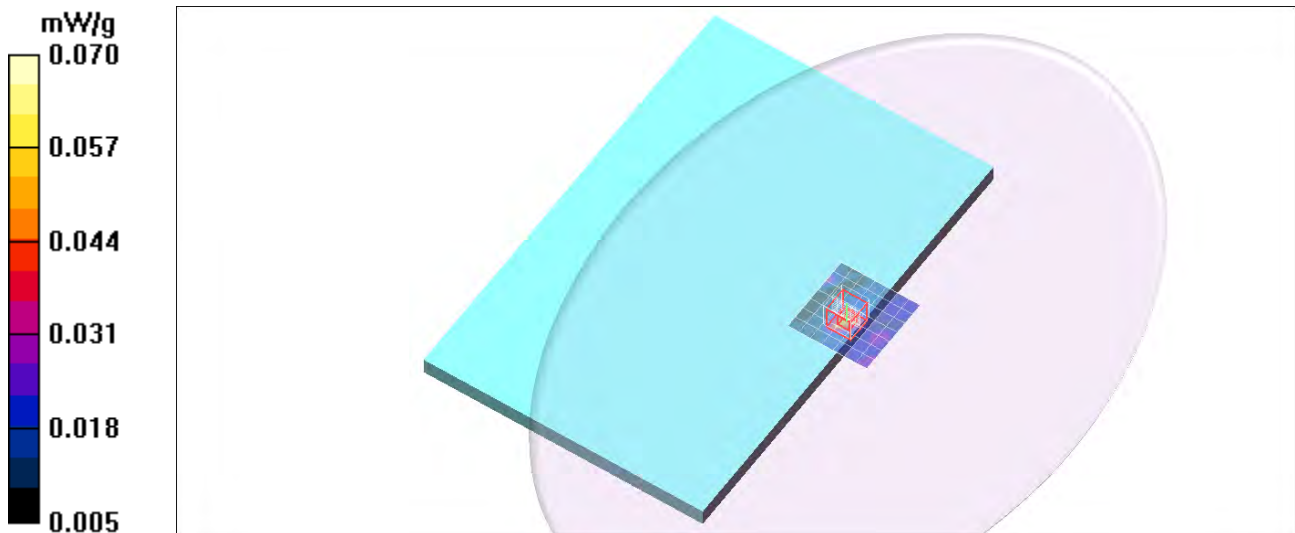
Reference Value = 3.64 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.033 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.096 mW/g





## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.3$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.181 mW/g

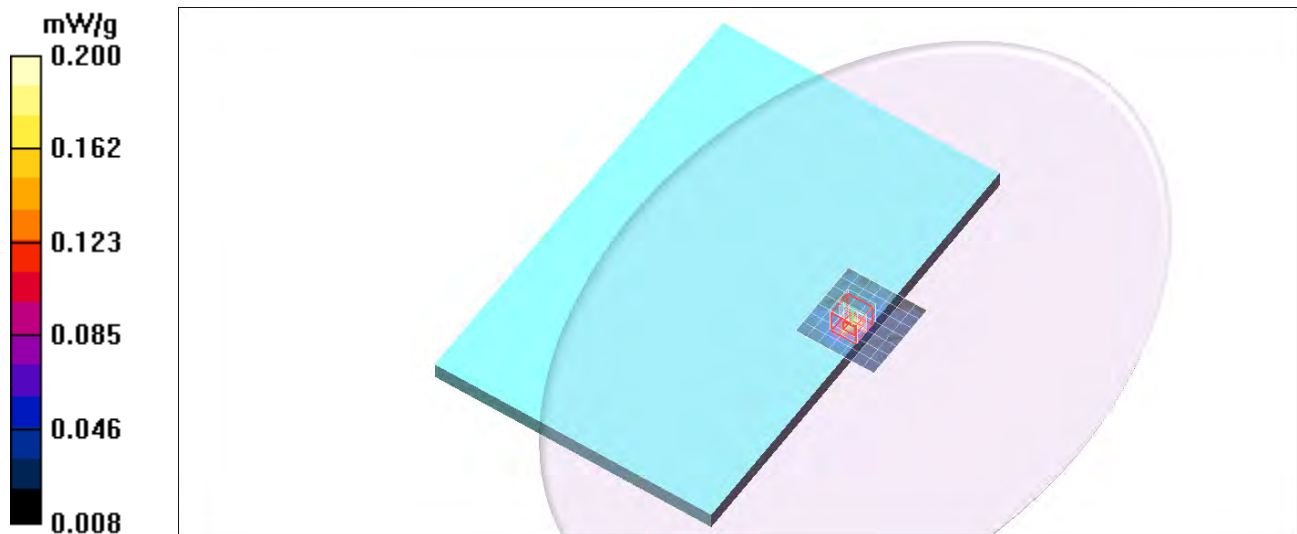
**Rear/Aux Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.08 V/m; Power Drift = 0.129 dB

Peak SAR (extrapolated) = 0.522 W/kg

**SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.052 mW/g**

Maximum value of SAR (measured) = 0.262 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.69$  mho/m;  $\epsilon_r = 48.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.375 mW/g

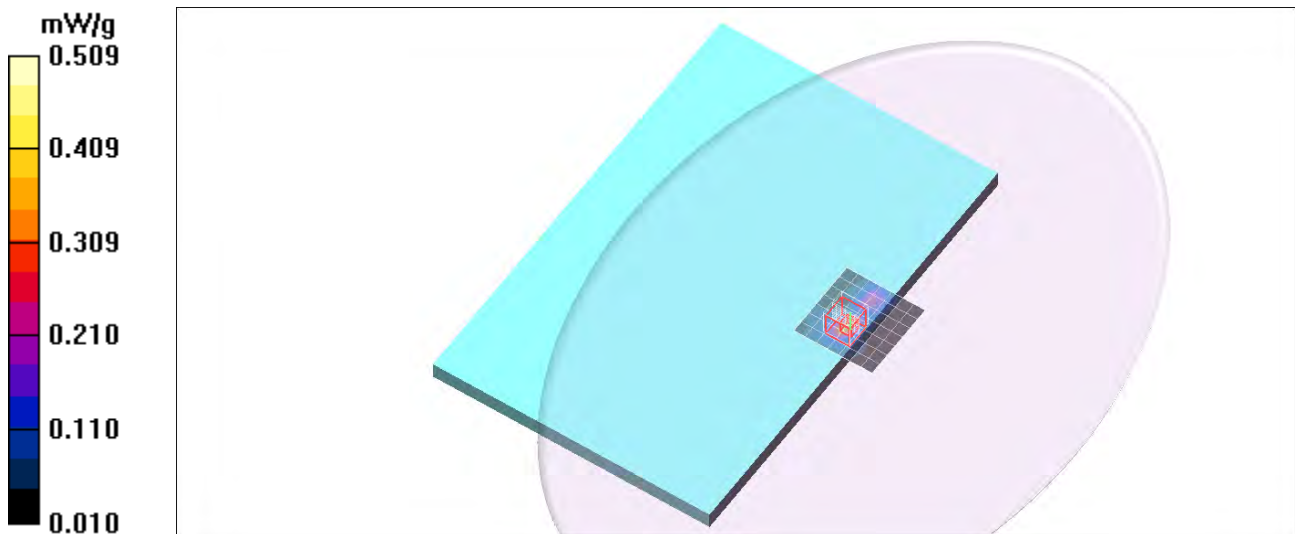
**Rear/Aux Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.08 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.094 mW/g**

Maximum value of SAR (measured) = 0.509 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.9$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.306 mW/g

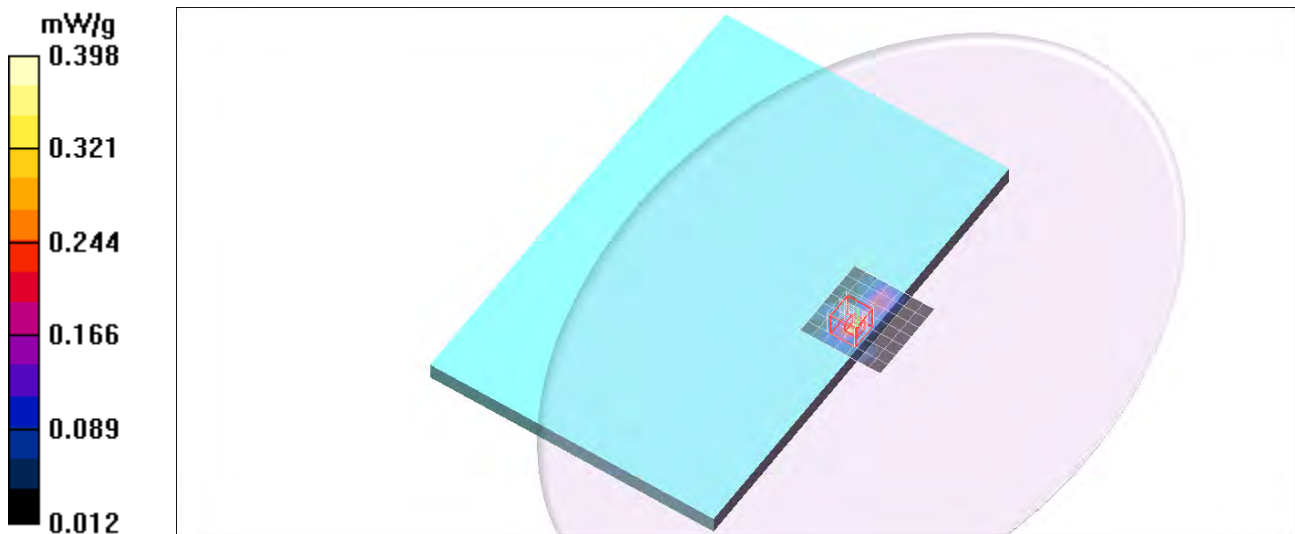
**Rear/Aux Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.29 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.754 W/kg

**SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.076 mW/g**

Maximum value of SAR (measured) = 0.398 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.451 mW/g

**Edge3/Main Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

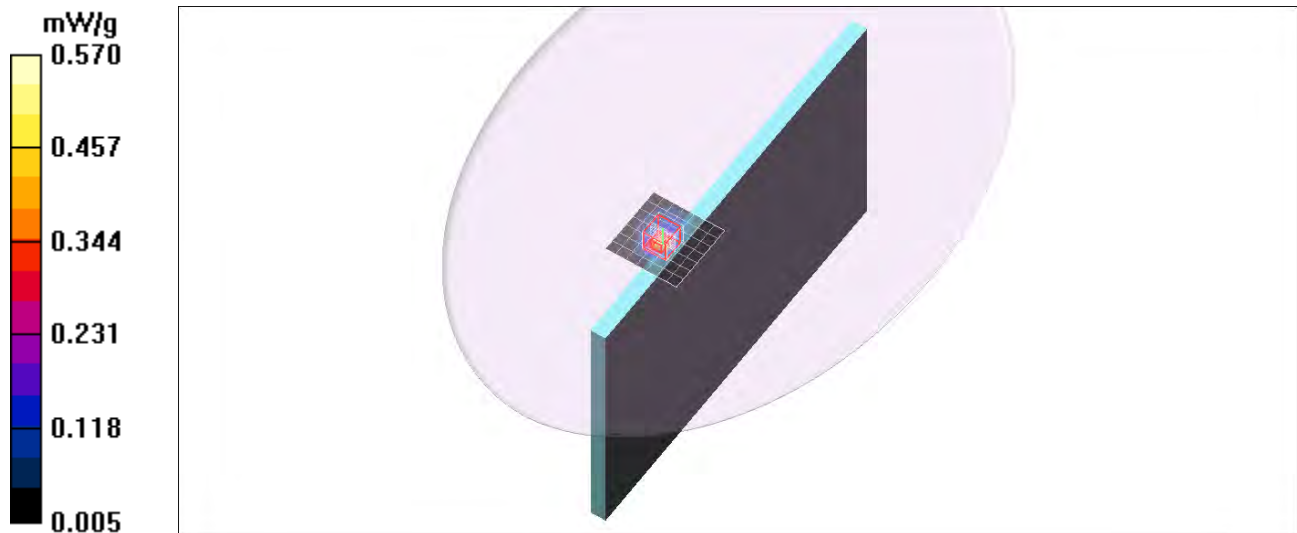
Reference Value = 0.660 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.097 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.570 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.377 mW/g

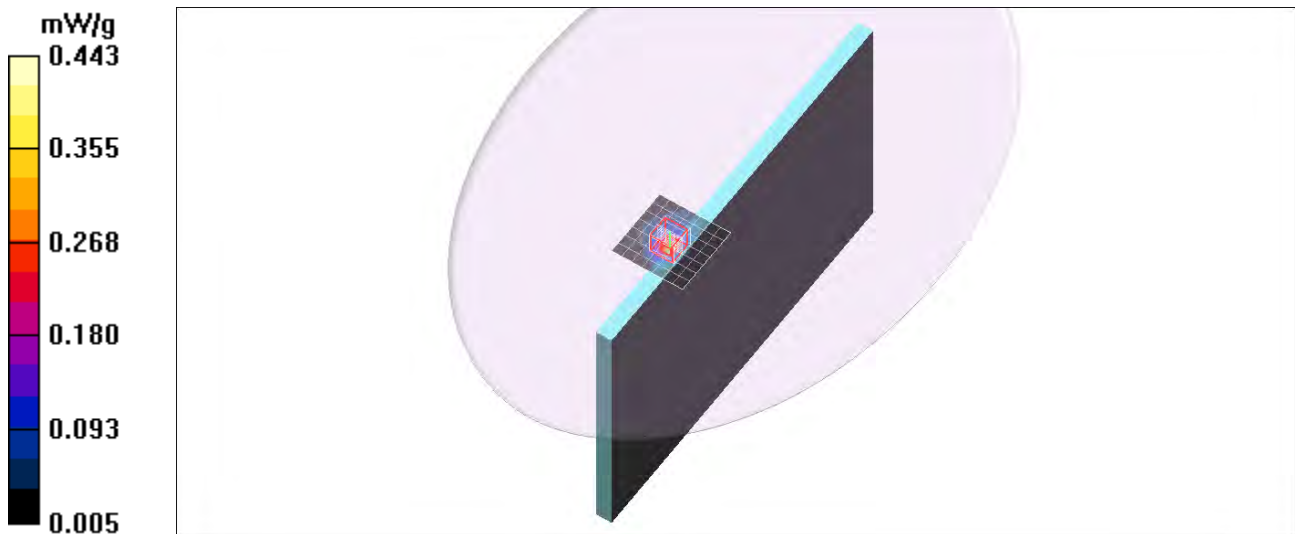
**Edge3/Main Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.08 V/m; Power Drift = 0.179 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.073 mW/g**

Maximum value of SAR (measured) = 0.443 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.540 mW/g

**Edge3/Main Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.31 V/m; Power Drift = 0.154 dB

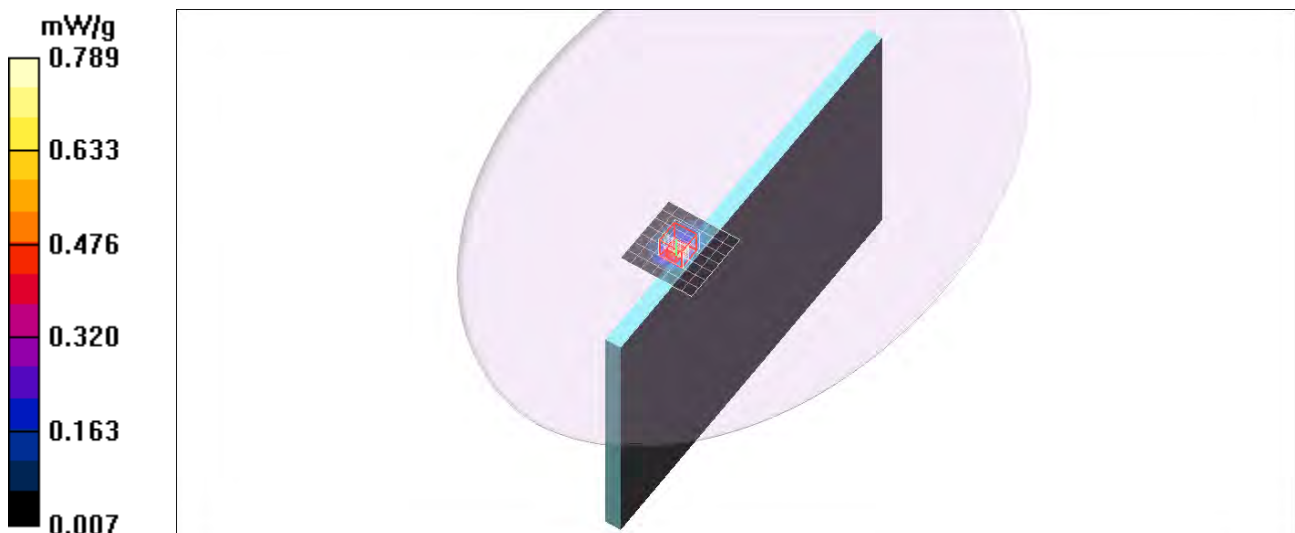
Peak SAR (extrapolated) = 1.72 W/kg

Peak SAR (extrapolated) = 1.72 W/kg

**SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.124 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.789 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.448 mW/g

**Edge3/Main Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

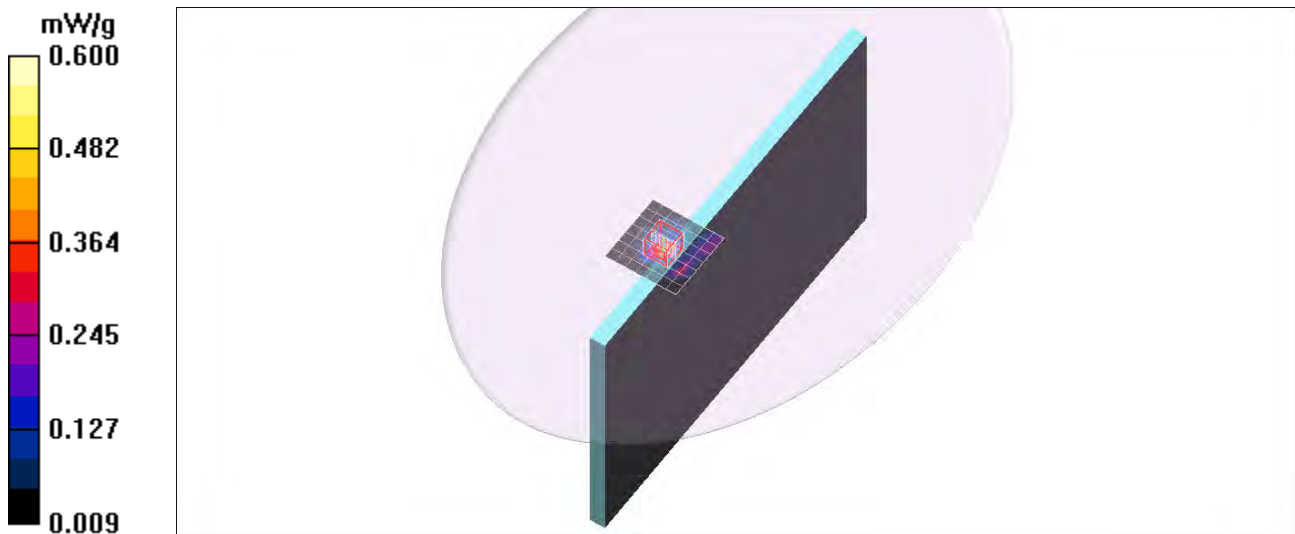
Reference Value = 0.208 V/m; Power Drift = 0.125 dB

Peak SAR (extrapolated) = 1.20 W/kg

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.086 mW/g**

Maximum value of SAR (measured) = 0.508 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 49.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.076 mW/g

**Edge3/Aux Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

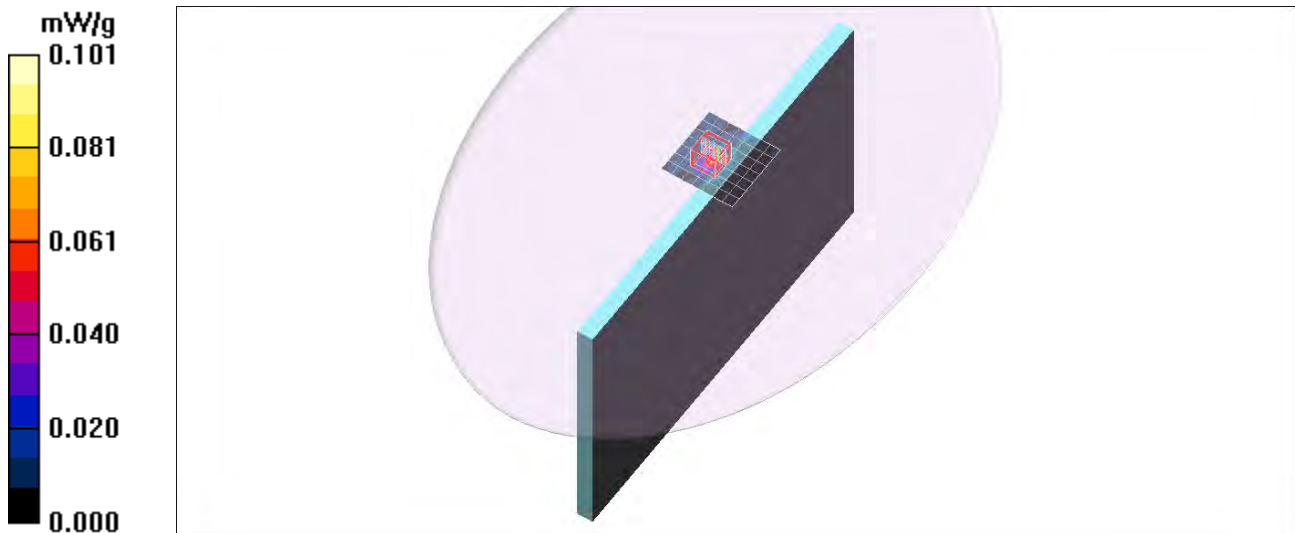
Reference Value = 0.962 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 0.450 W/kg

**SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.020 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.101 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.153 mW/g

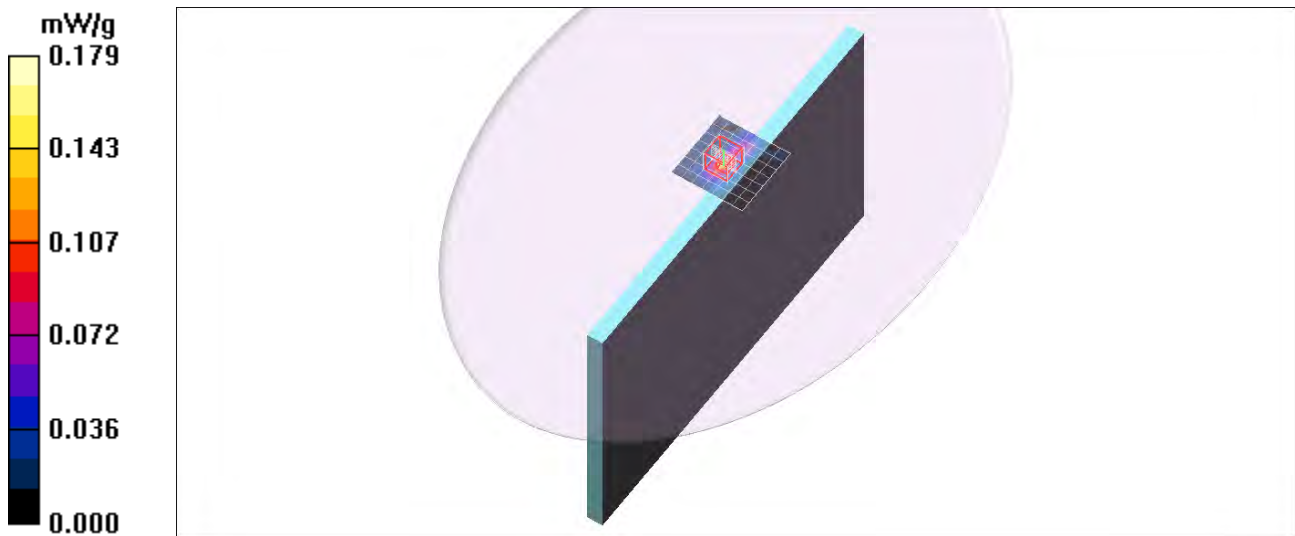
**Edge3/Aux Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.51 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.179 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.75$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.242 mW/g

**Edge3/Aux Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

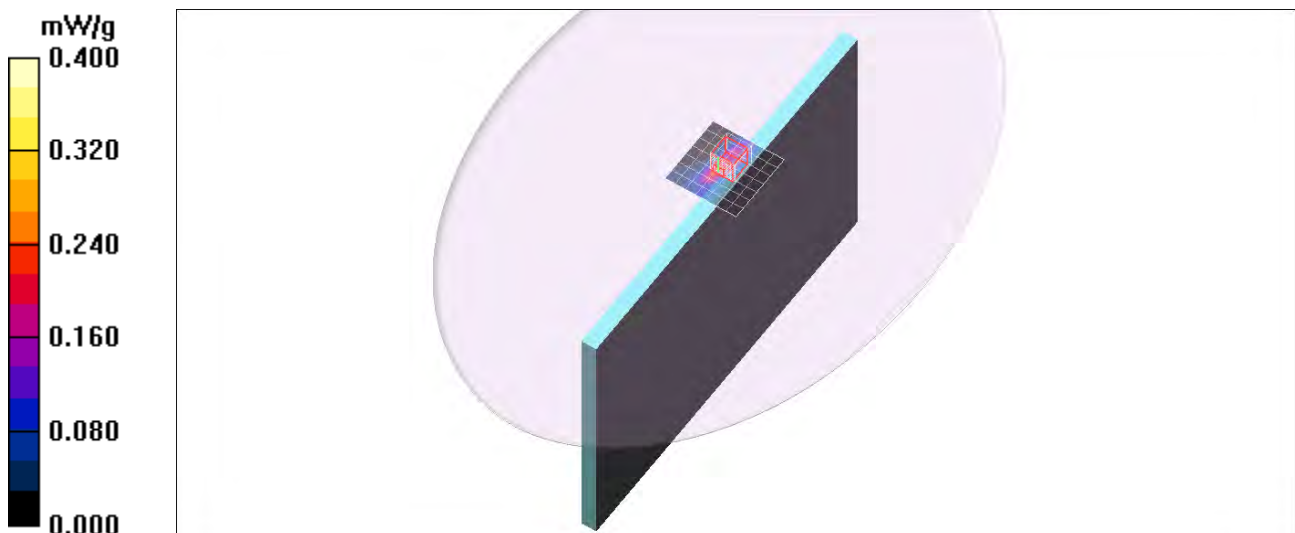
Reference Value = 1.92 V/m; Power Drift = 0.166 dB

Peak SAR (extrapolated) = 0.549 W/kg

**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.043 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.300 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.92$  mho/m;  $\epsilon_r = 48.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.204 mW/g

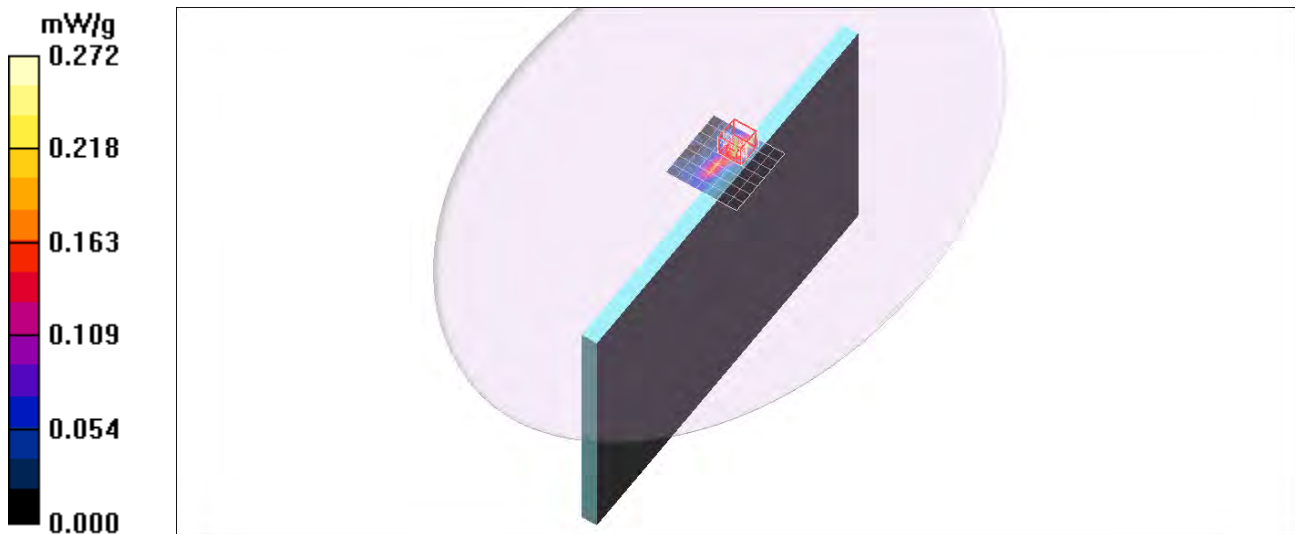
**Edge3/Aux Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.86 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 0.546 W/kg

**SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.272 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.450 mW/g

**Edge3/Main Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

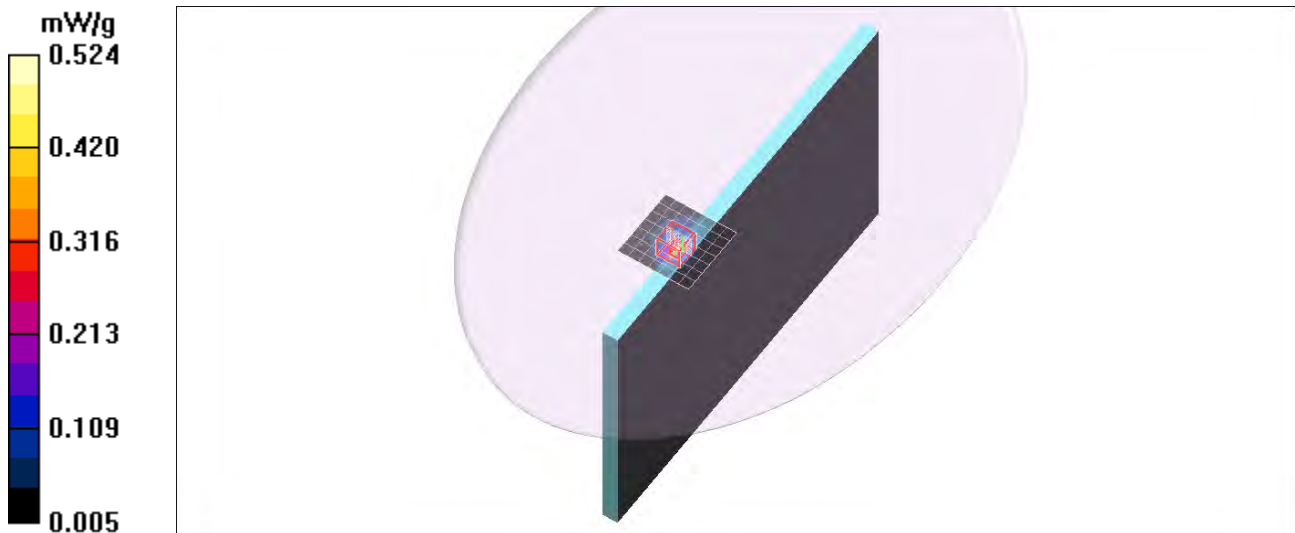
Reference Value = 0.000 V/m; Power Drift = 0.125 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.105 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.524 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.398 mW/g

**Edge3/Main Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

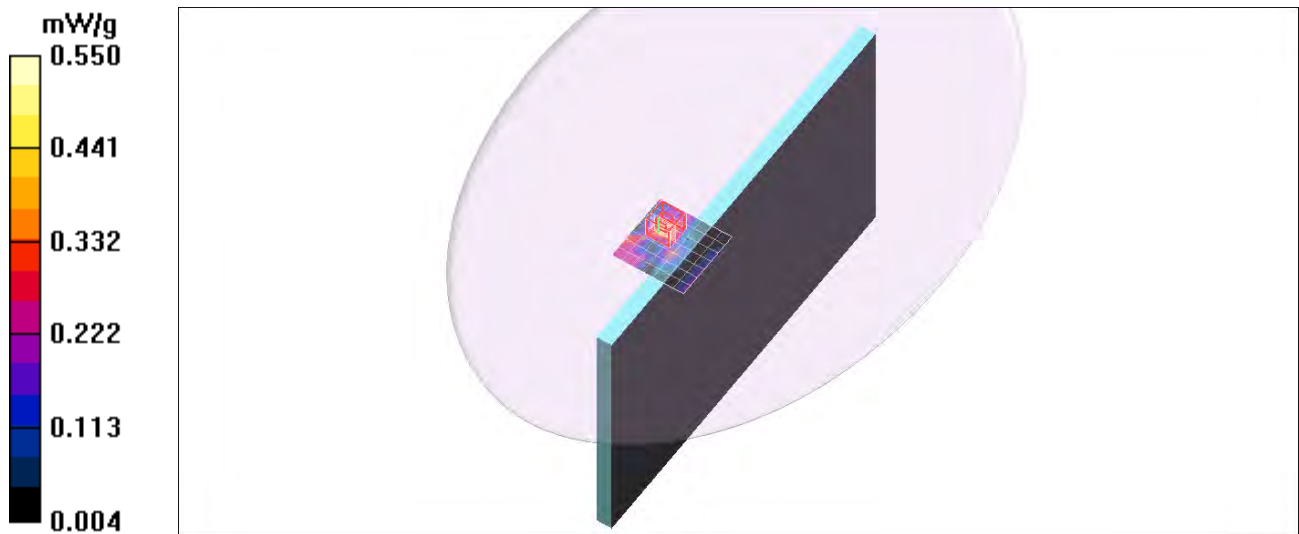
Reference Value = 0.923 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.858 W/kg

Peak SAR (extrapolated) = 0.858 W/kg

**SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.106 mW/g**

Maximum value of SAR (measured) = 0.488 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.696 mW/g

**Edge3/Main Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.767 V/m; Power Drift =0.109 dB

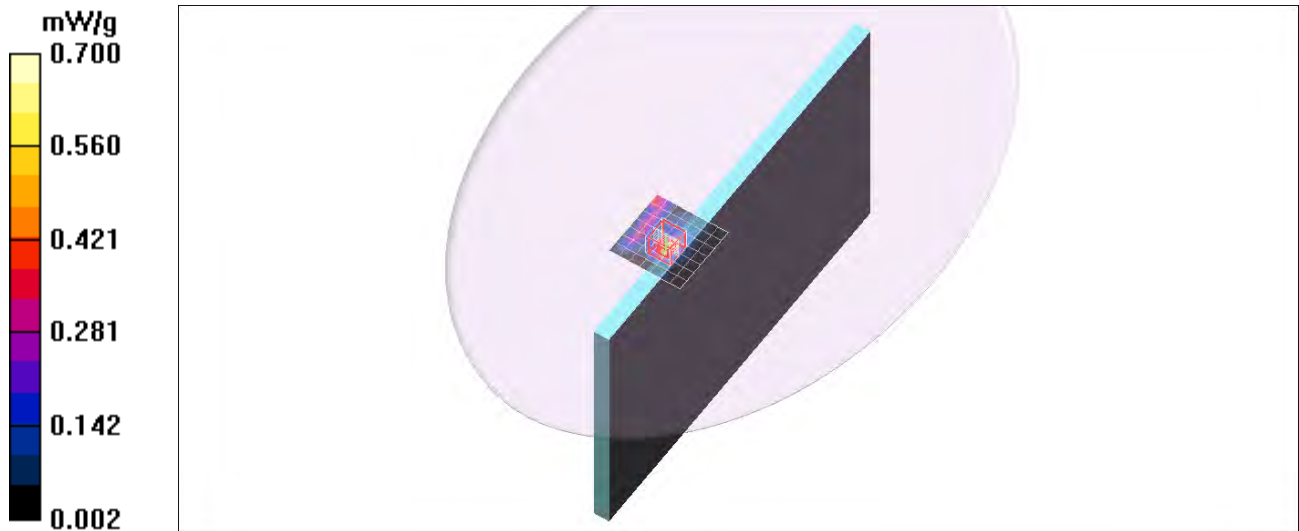
Peak SAR (extrapolated) = 1.70 W/kg

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.132 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.747 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.373 mW/g

**Edge3/Main Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

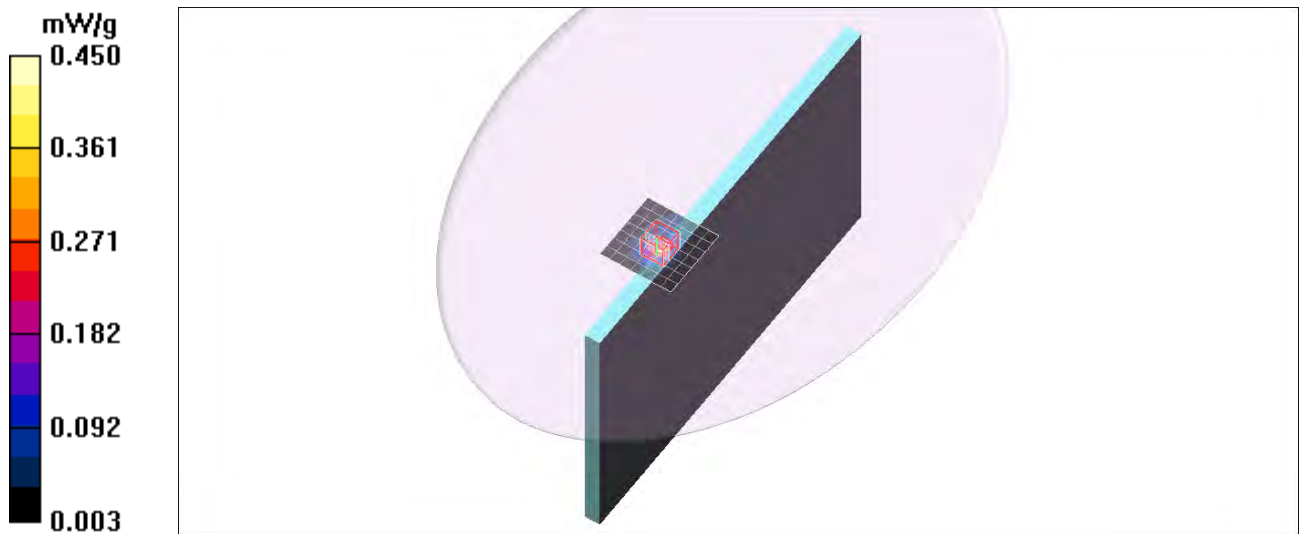
Reference Value = 0.000 V/m; Power Drift = 0.159 dB

Peak SAR (extrapolated) = 2.55 W/kg

Peak SAR (extrapolated) = 2.55 W/kg

**SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.194 mW/g**

Maximum value of SAR (measured) = 0.671 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.338 mW/g

**Edge3/Aux Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.76 V/m; Power Drift = 0.101 dB

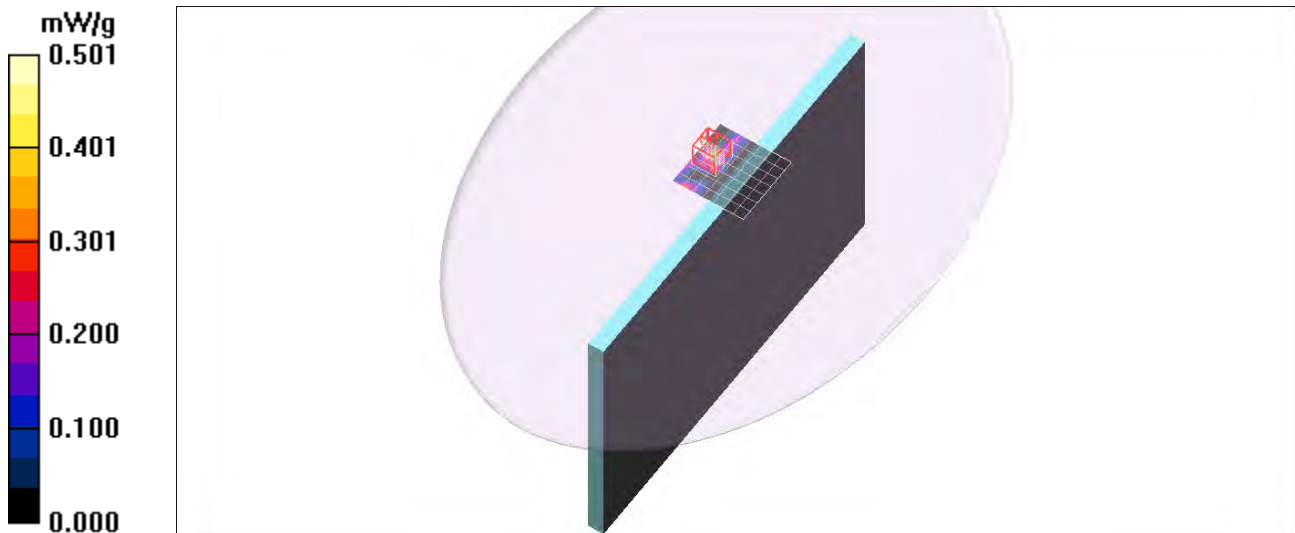
Peak SAR (extrapolated) = 0.501 W/kg

Peak SAR (extrapolated) = 0.501 W/kg

**SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.082 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.501 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.446 mW/g

**Edge3/Aux Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

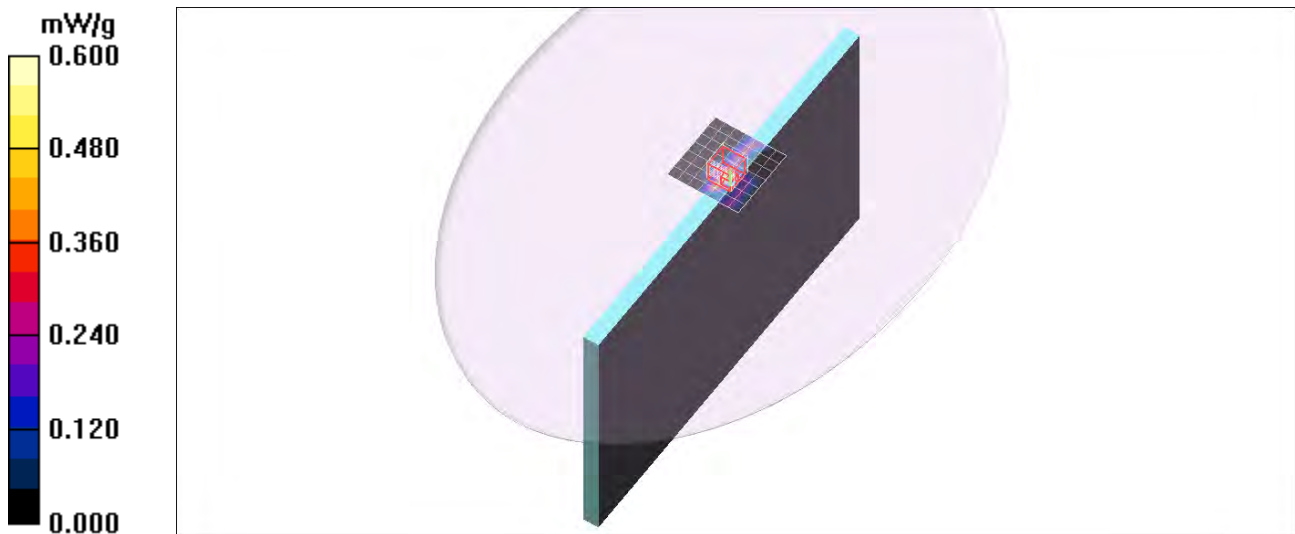
Reference Value = 2.38 V/m; Power Drift = 0.180 dB

Peak SAR (extrapolated) = 0.521 W/kg

Peak SAR (extrapolated) = 0.521 W/kg

**SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.037 mW/g**

Maximum value of SAR (measured) = 0.521 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.296 mW/g

**Edge3/Aux Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

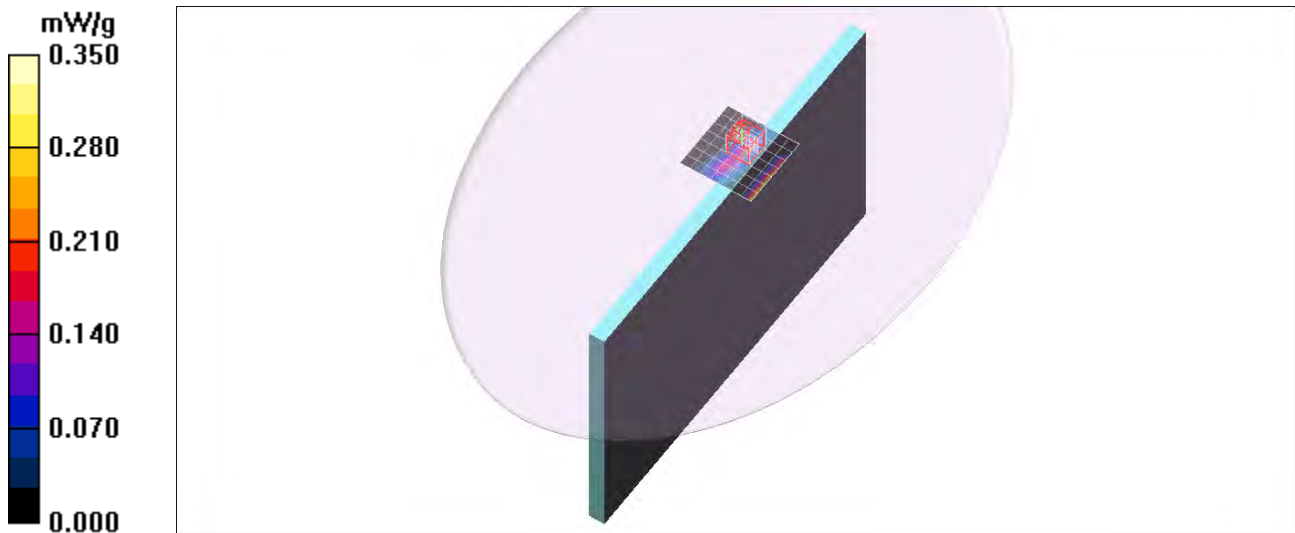
Reference Value = 8.84 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 0.615 W/kg

**SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.049 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.615 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.244 mW/g

**Edge3/Aux Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

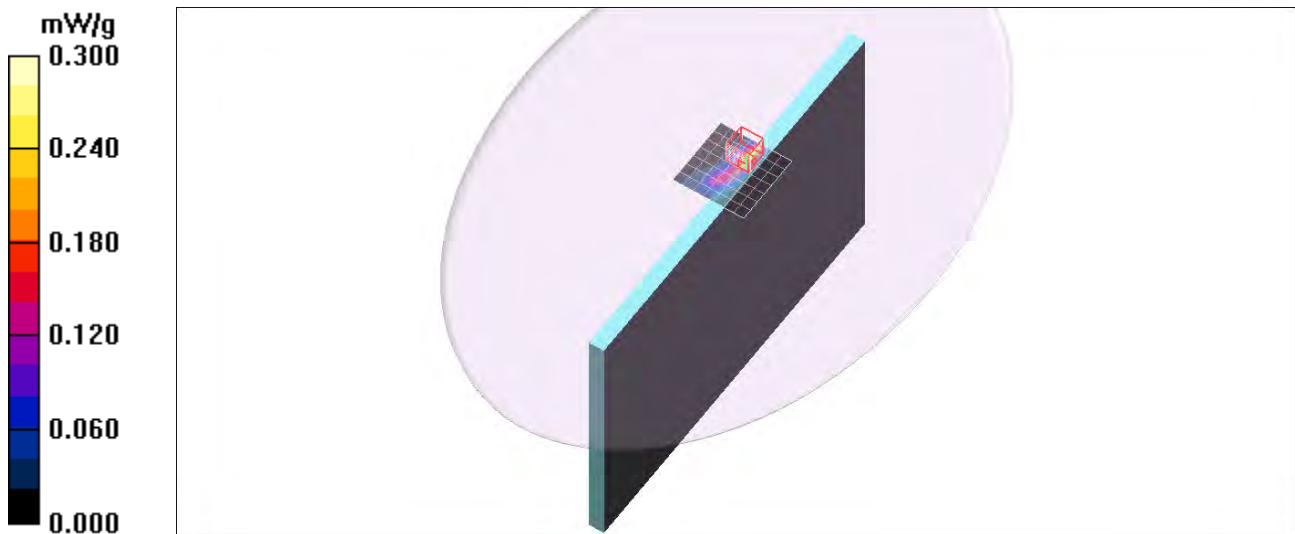
Reference Value = 2.08 V/m; Power Drift = 0.173 dB

Peak SAR (extrapolated) = 0.752 W/kg

Peak SAR (extrapolated) = 0.752 W/kg

**SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.609 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.18$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.306 mW/g

**Edge3/Main Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

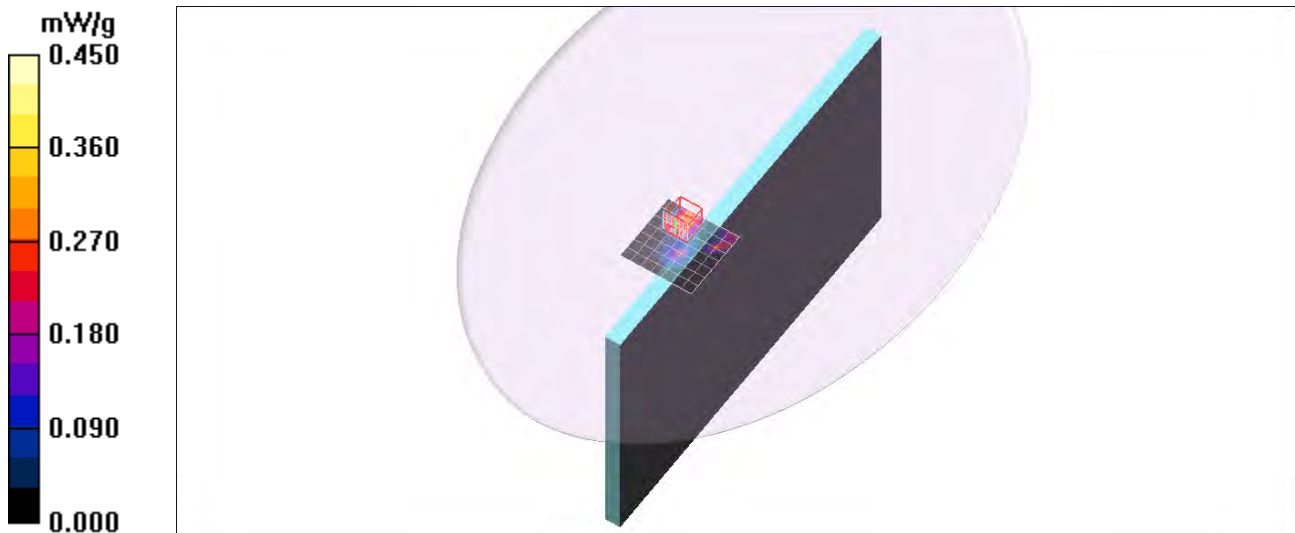
Reference Value = 0.612 V/m; Power Drift = 0.127 dB

Peak SAR (extrapolated) = 0.706 W/kg

**SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.044 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.525 mW/g



## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.27$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.576 mW/g

**Edge3/Main Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

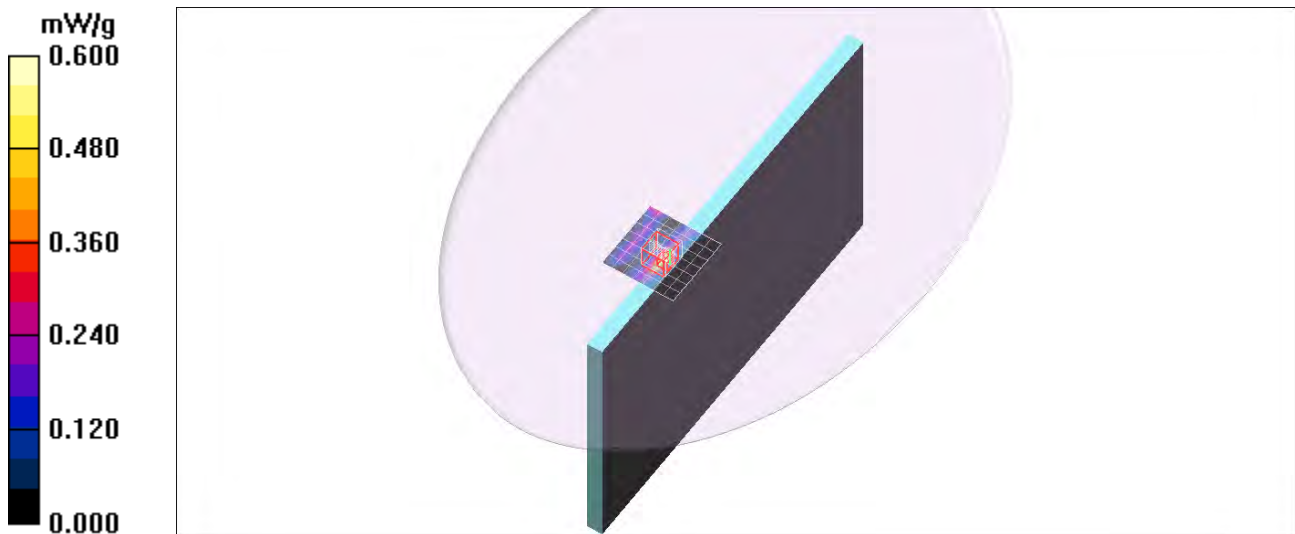
Reference Value = 1.06 V/m; Power Drift = 0.195 dB

Peak SAR (extrapolated) = 2.34 W/kg

Peak SAR (extrapolated) = 2.34 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.088 mW/g**

Maximum value of SAR (measured) = 0.547 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.67$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.819 mW/g

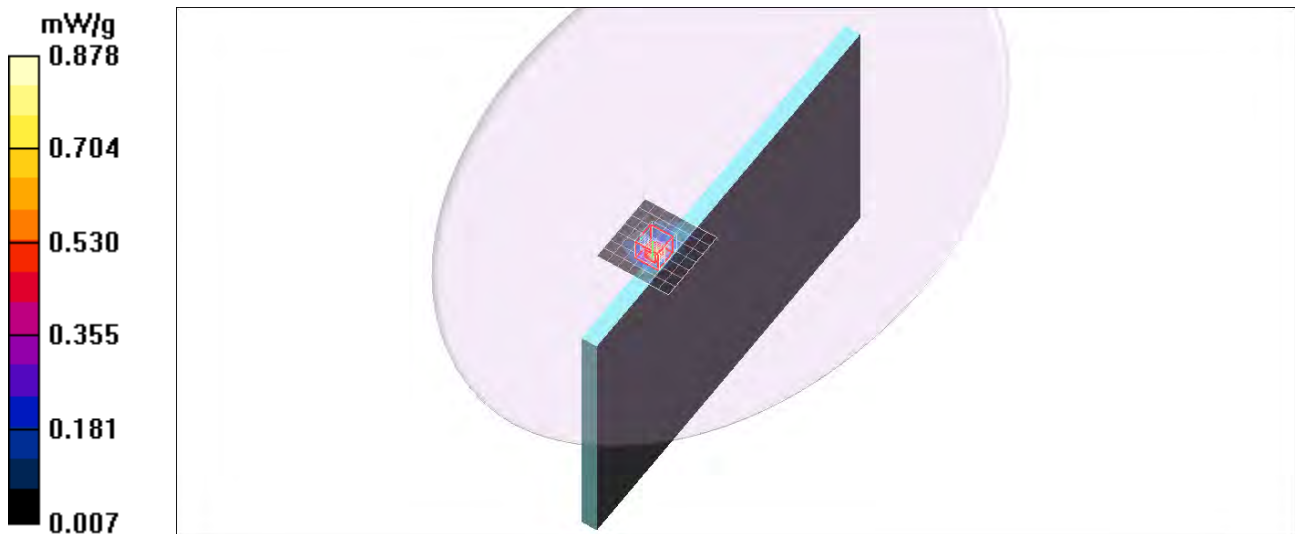
**Edge3/Main Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.601 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 2.94 W/kg

**SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.145 mW/g**

Maximum value of SAR (measured) = 0.878 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.874 mW/g

**Edge3/Main Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

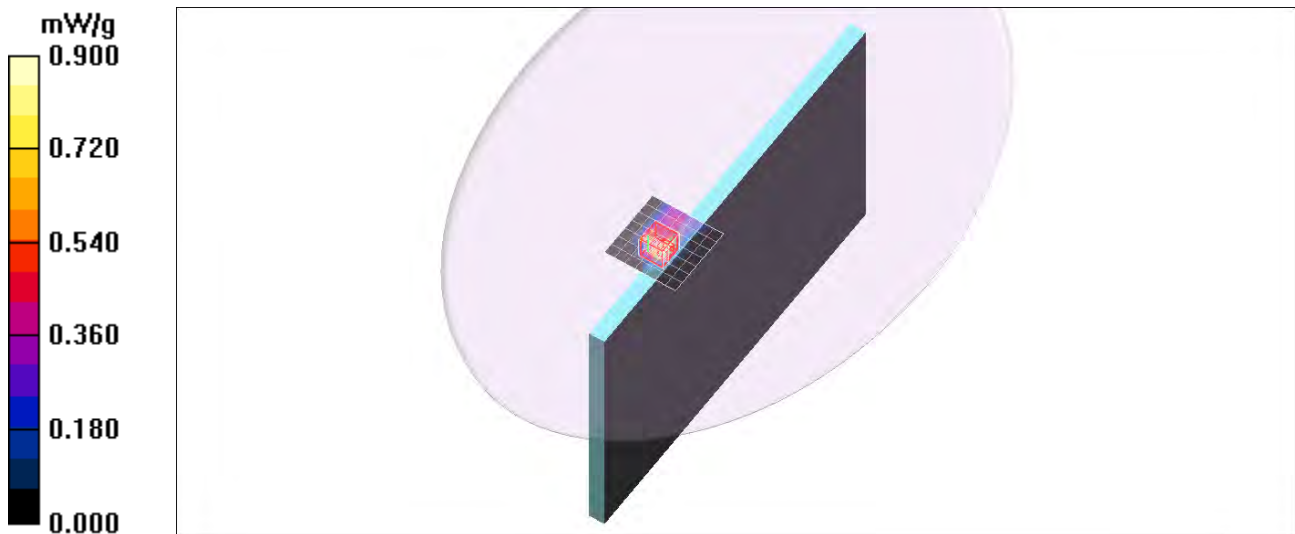
Reference Value = 0.787 V/m; Power Drift = 0.195 dB

Peak SAR (extrapolated) = 1.18 W/kg

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.116 mW/g**

Maximum value of SAR (measured) = 0.730 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.18$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.327 mW/g

**Edge3/Aux Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

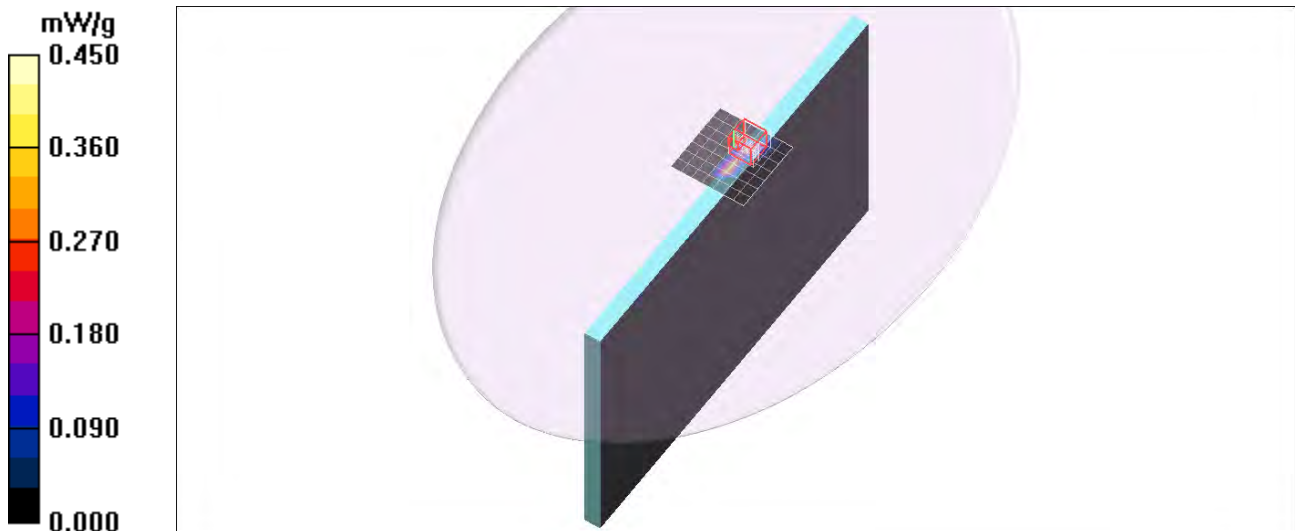
Reference Value = 1.51 V/m; Power Drift = 0.193 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.031 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.522 mW/g





## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.27$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.098 mW/g

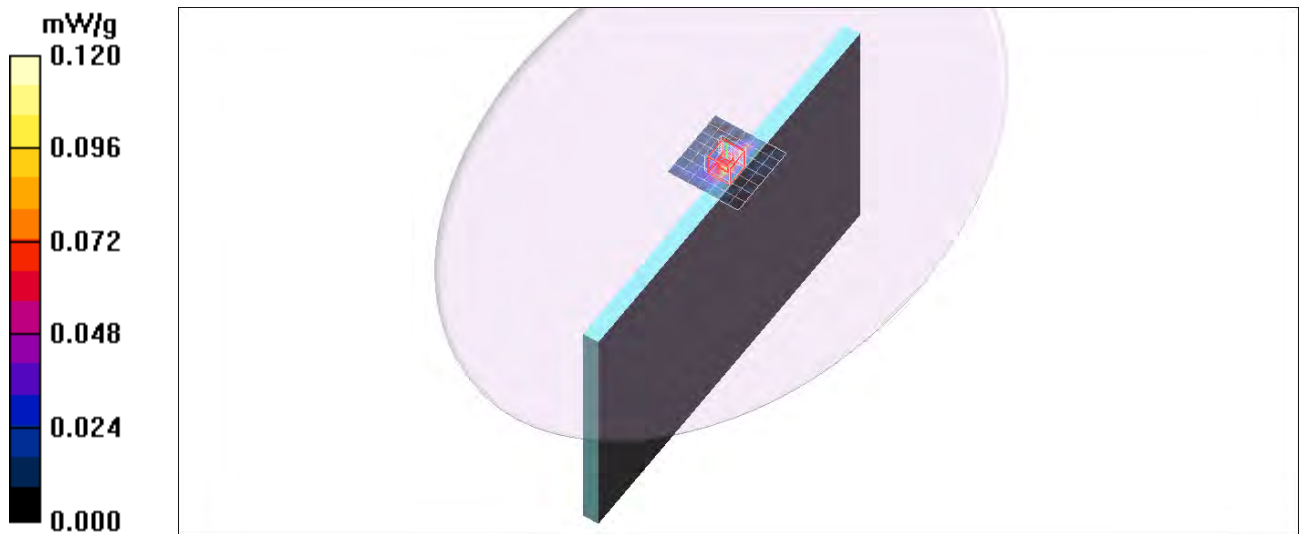
**Edge3/Aux Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.53 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 0.574 W/kg

**SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.571 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.67$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.284 mW/g

**Edge3/Aux Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

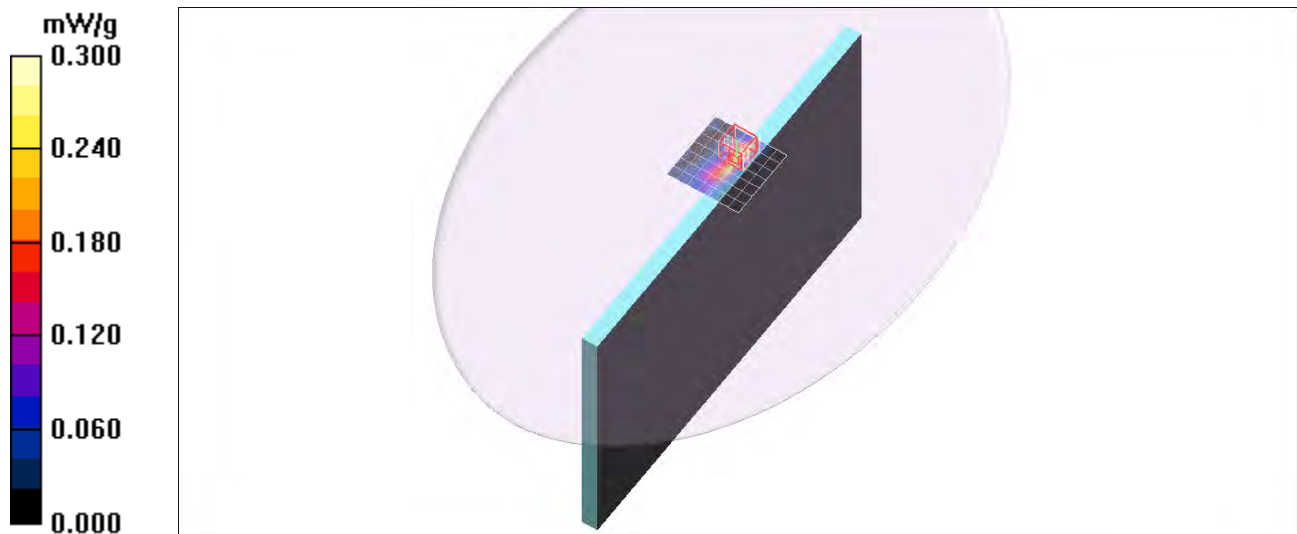
Reference Value = 3.73 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 0.592 W/kg

Peak SAR (extrapolated) = 0.592 W/kg

**SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.278 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.7$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.272 mW/g

**Edge3/Aux Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

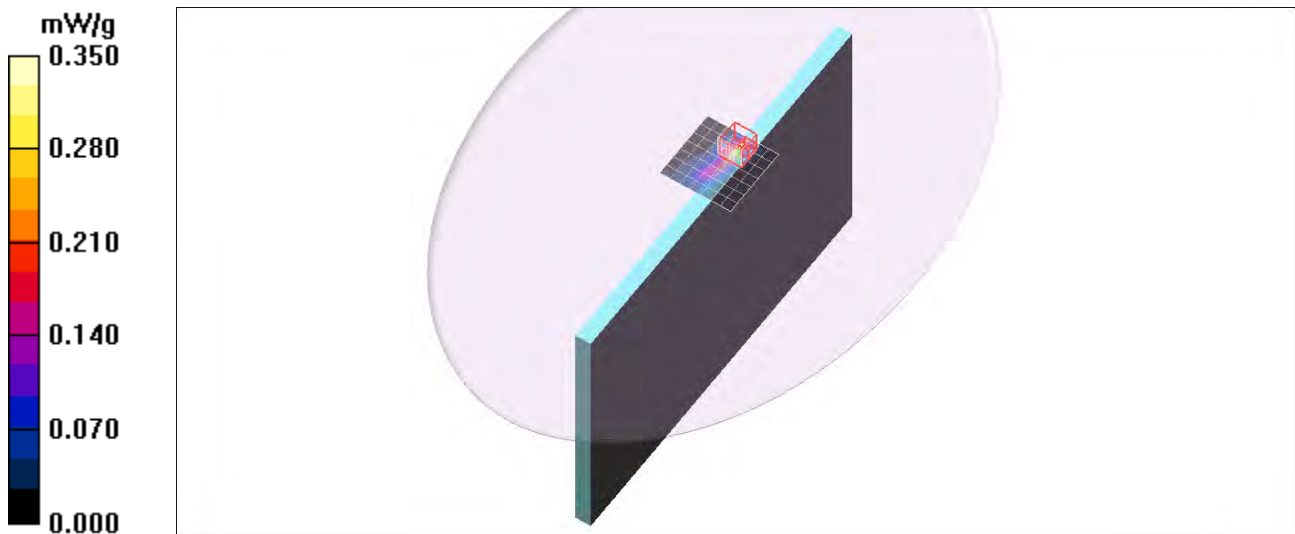
Reference Value = 3.06 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 1.25 W/kg

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.058 mW/g**

Maximum value of SAR (measured) = 0.769 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.451 mW/g

**Rear/Main Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

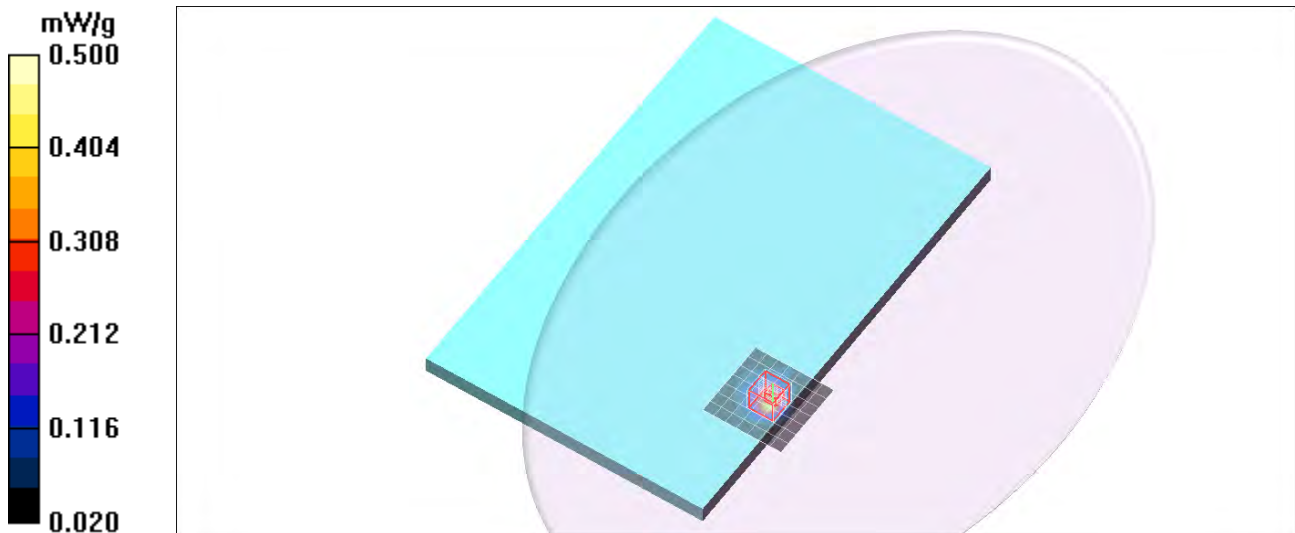
Reference Value = 2.20 V/m; Power Drift = 0.1.64 dB

Peak SAR (extrapolated) = 2.35 W/kg

**SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.128 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.966 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.378 mW/g

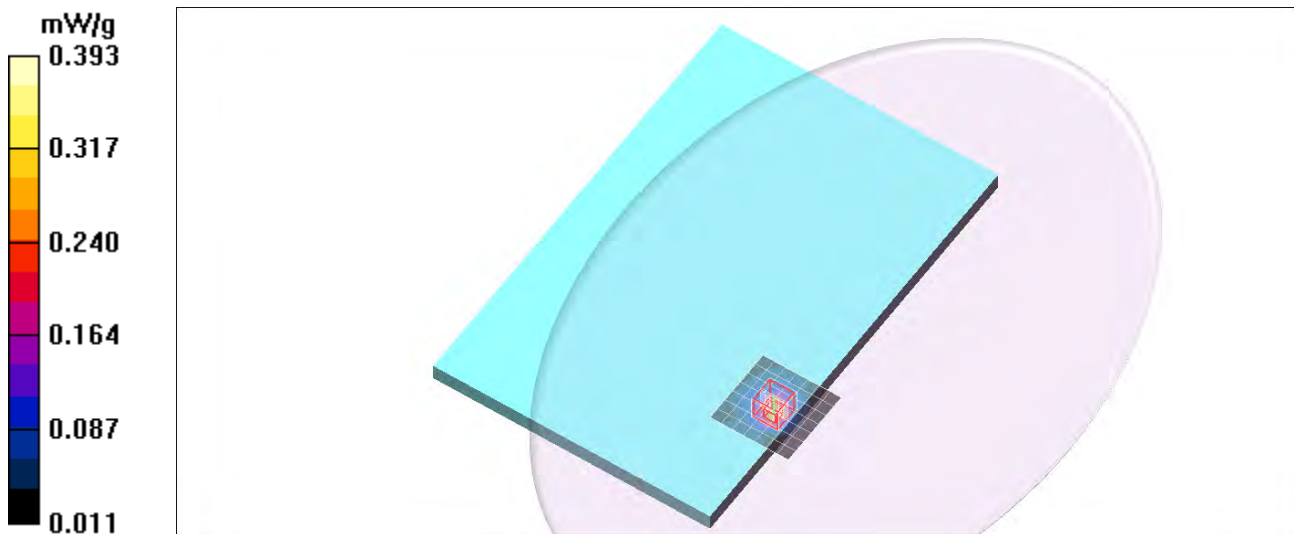
**Rear/Main Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.21 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.090 mW/g**

Maximum value of SAR (measured) = 0.393 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.468 mW/g

**Rear/Main Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

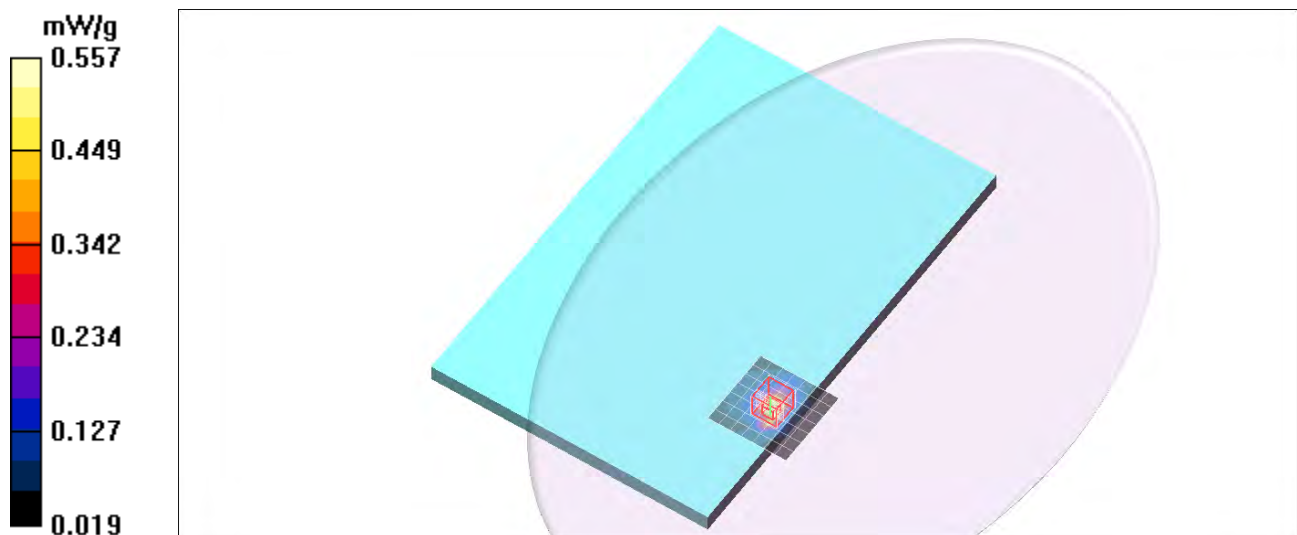
Reference Value = 2.32 V/m; Power Drift = 0.119 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.311 mW/g; SAR(10 g) = 0.134 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.557 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.338 mW/g

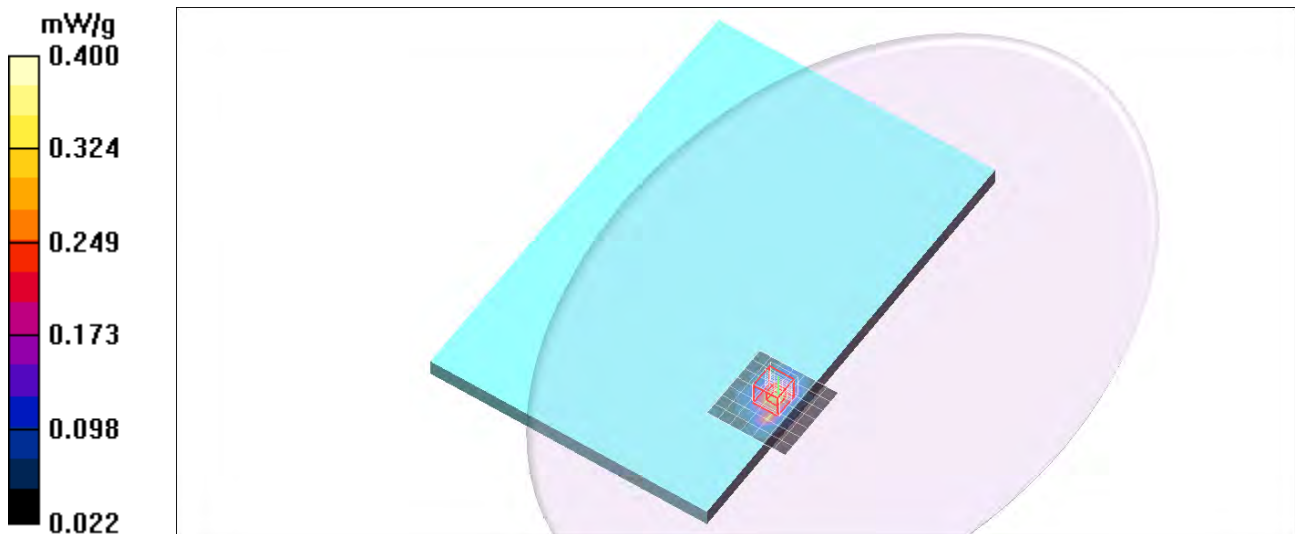
**Rear/Main Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.24 V/m; Power Drift = 0.188 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.097 mW/g**

Maximum value of SAR (measured) = 0.381 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.250 mW/g

**Rear/Aux Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

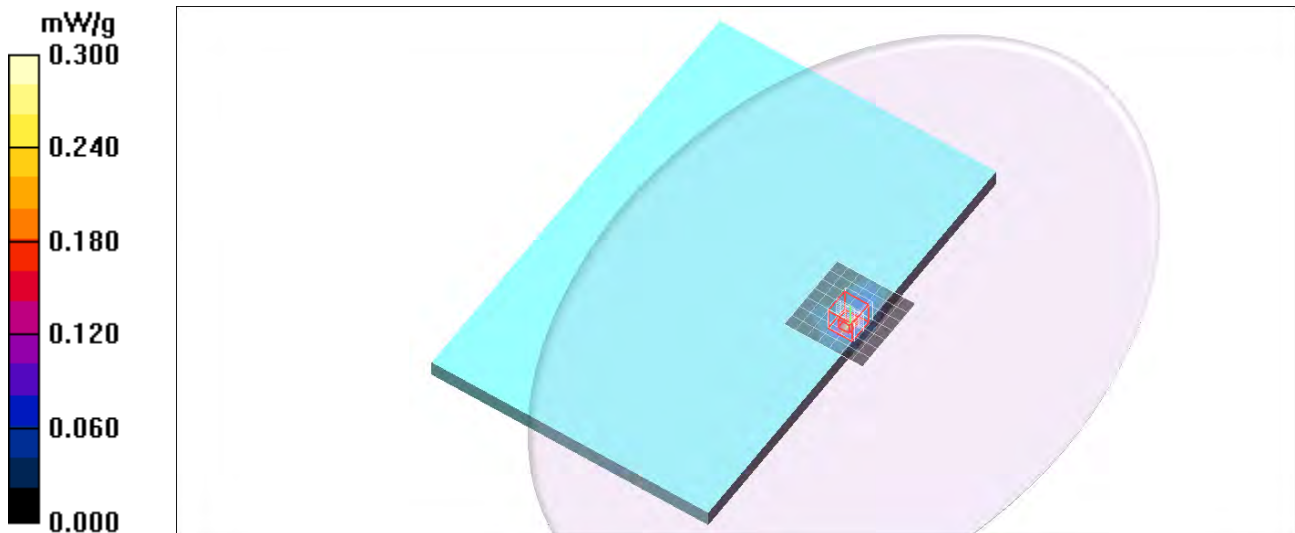
Reference Value = 4.94 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.984 W/kg

**SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.055 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.272 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.378 mW/g

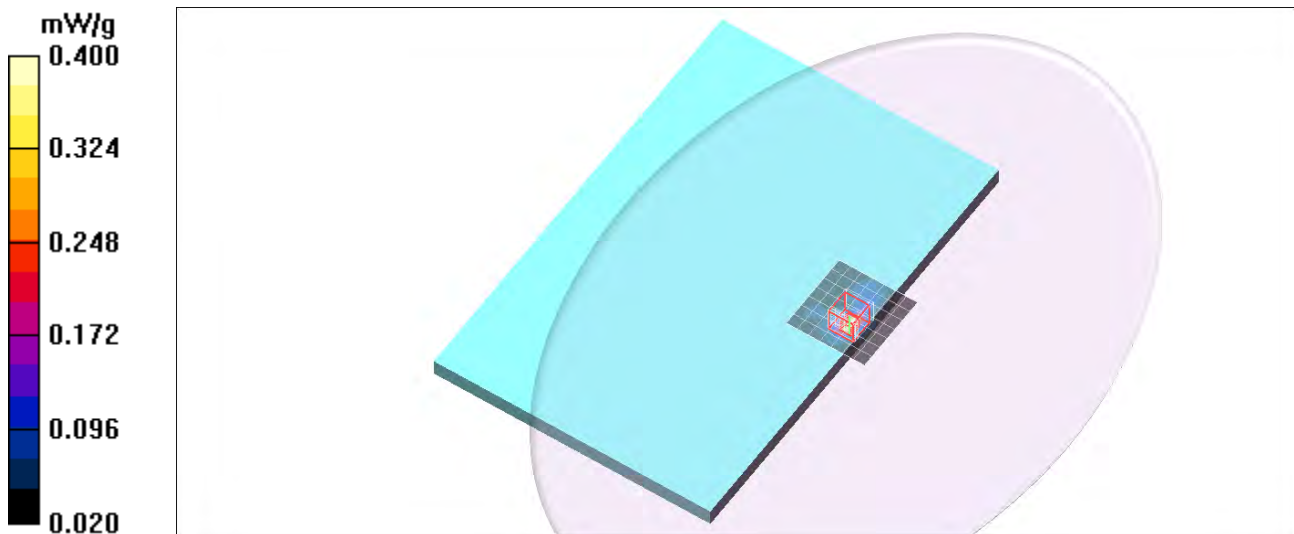
**Rear/Aux Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.93 V/m; Power Drift = 0.190 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.110 mW/g**

Maximum value of SAR (measured) = 0.924 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.448 mW/g

**Rear/Aux Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

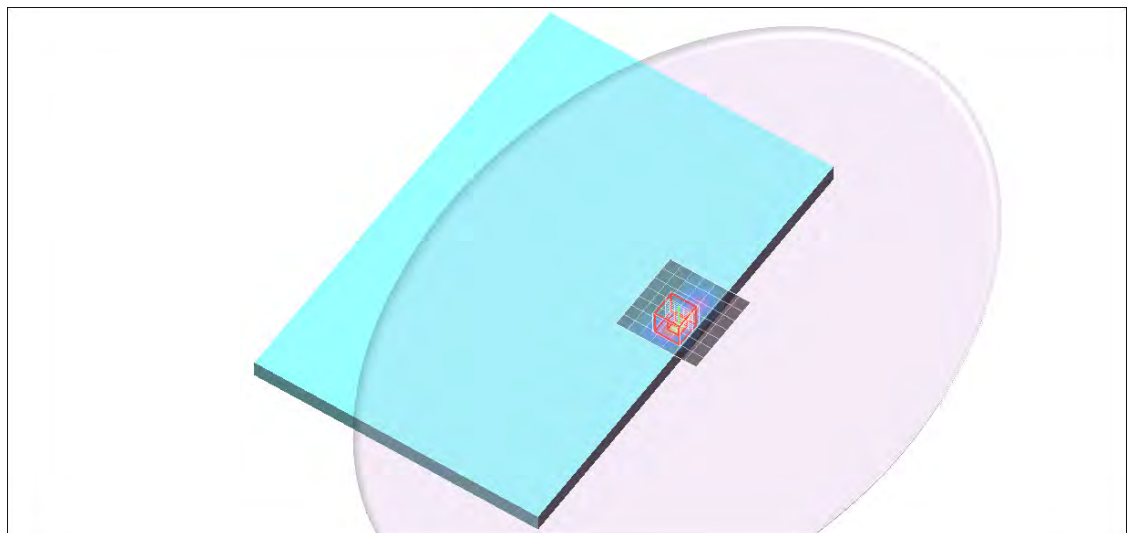
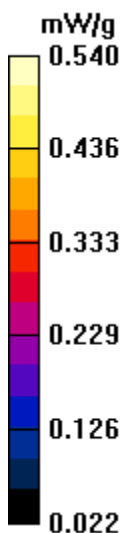
Reference Value = 6.99 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.104 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.540 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.360 mW/g

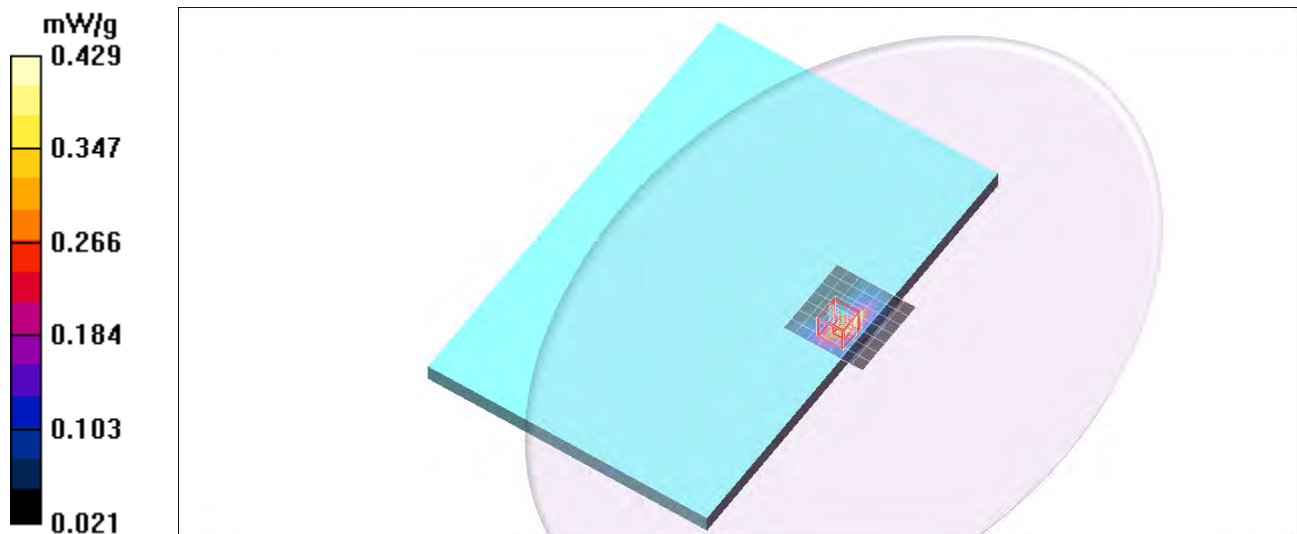
**Rear/Aux Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.83 V/m; Power Drift = 0.157 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.093 mW/g**

Maximum value of SAR (measured) = 0.429 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.343 mW/g

**Rear/Main Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.42 V/m; Power Drift = -0.015 dB

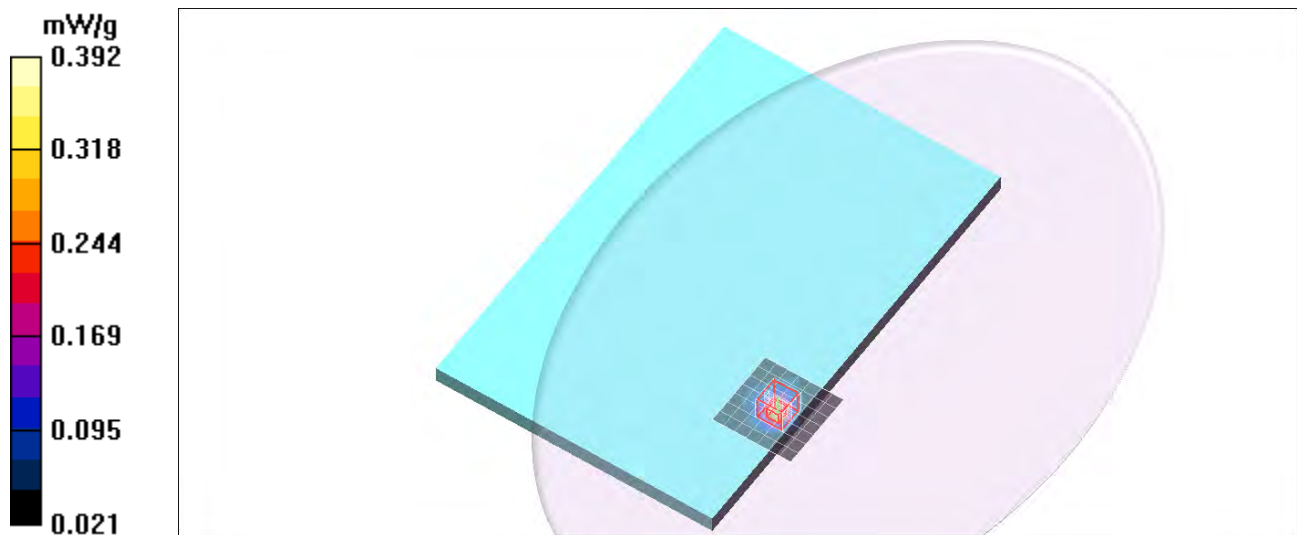
Peak SAR (extrapolated) = 1.05 W/kg

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.089 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.392 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.333 mW/g

**Rear/Main Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

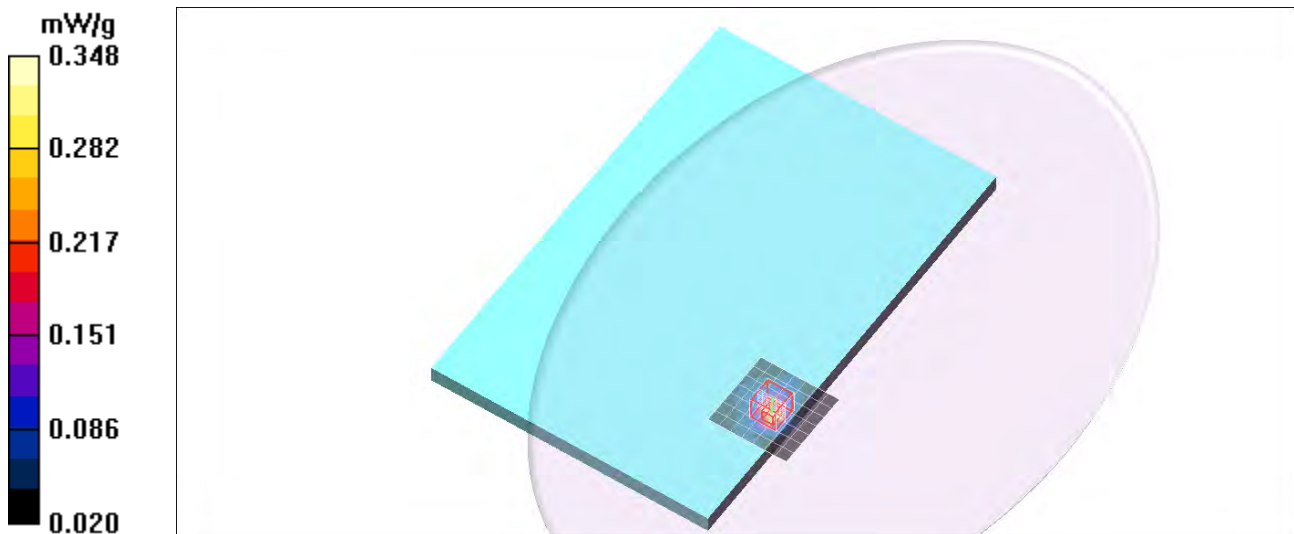
Reference Value = 2.09 V/m; Power Drift = 0.114 dB

Peak SAR (extrapolated) = 0.974 W/kg

Peak SAR (extrapolated) = 0.974 W/kg

**SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.085 mW/g**

Maximum value of SAR (measured) = 0.348 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.552 mW/g

**Rear/Main Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.41 V/m; Power Drift = 0.117 dB

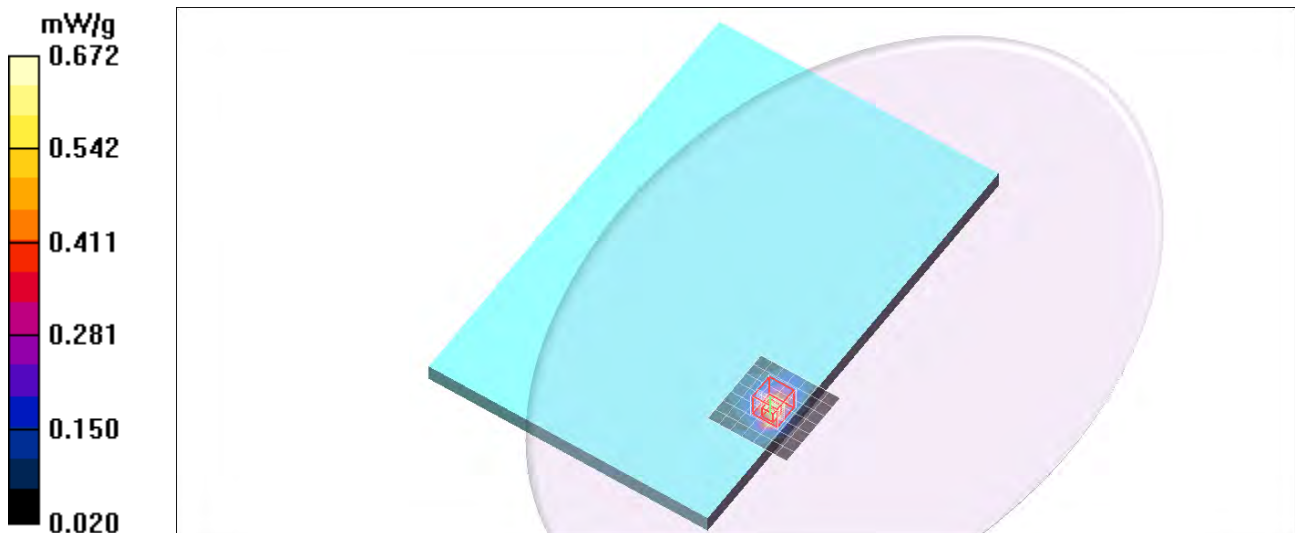
Peak SAR (extrapolated) = 1.69 W/kg

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.155 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.672 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.267 mW/g

**Rear/Main Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm,

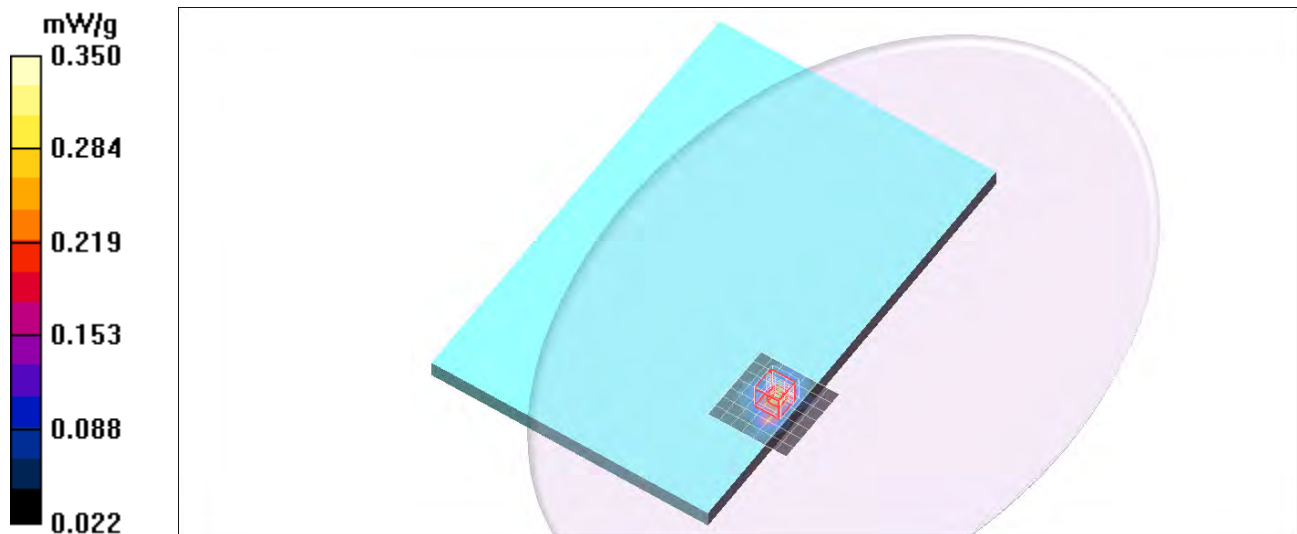
dy=4mm, dz=2mm

Reference Value = 2.06 V/m; Power Drift = 0.177 dB

Peak SAR (extrapolated) = 0.880 W/kg

**SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.301 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.19$  mho/m;  $\epsilon_r = 48.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.166 mW/g

**Rear/Aux Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

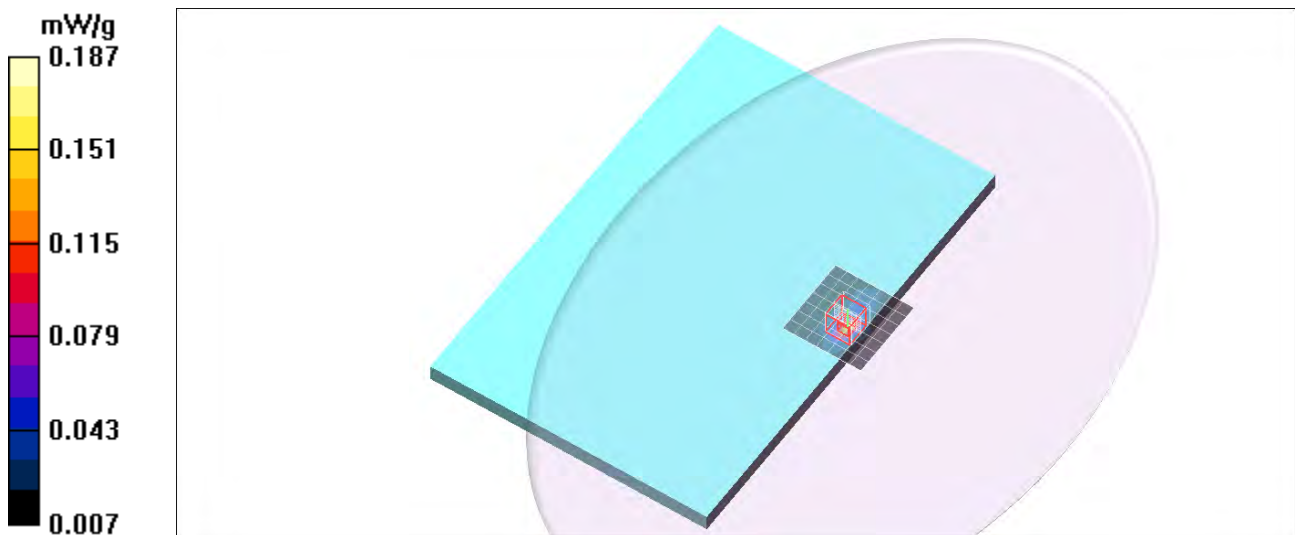
Reference Value = 3.96 V/m; Power Drift = 0.112 dB

Peak SAR (extrapolated) = 0.324 W/kg

**SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.042 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.187 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.279 mW/g

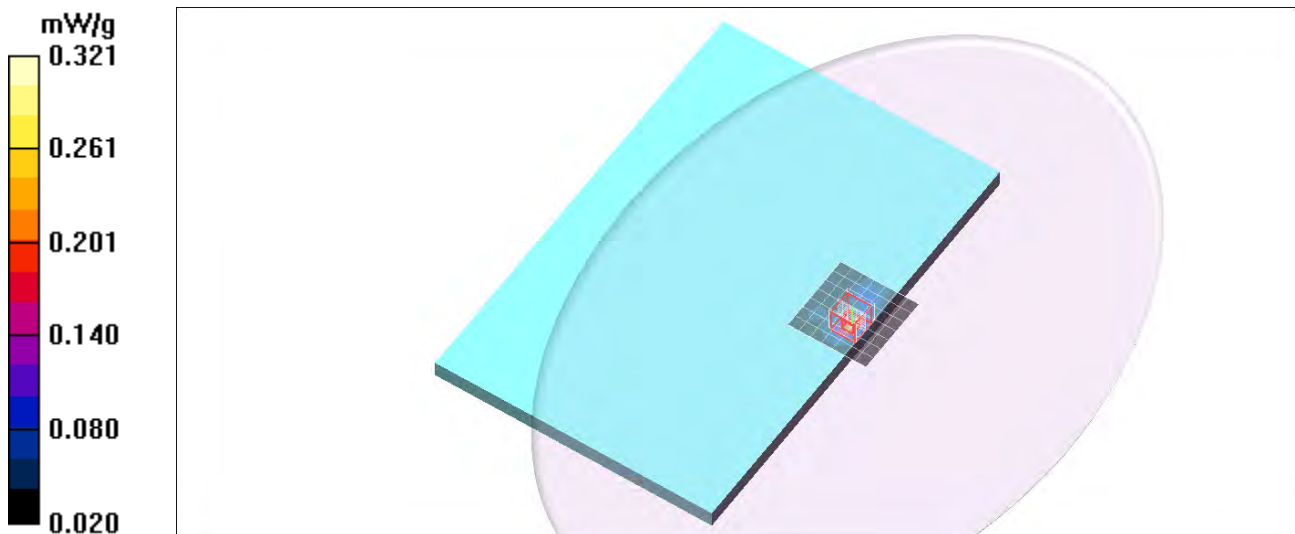
**Rear/Aux Ant/802.11n HT20/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.31 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.878 W/kg

**SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.060 mW/g**

Maximum value of SAR (measured) = 0.321 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.71$  mho/m;  $\epsilon_r = 47.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.406 mW/g

**Rear/Aux Ant/802.11n HT20/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

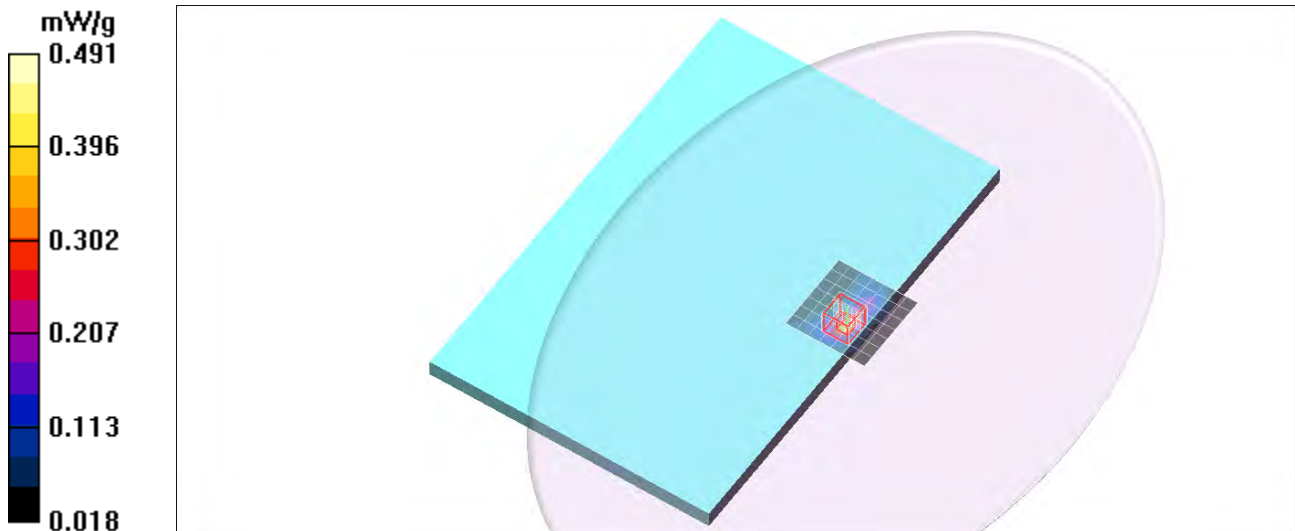
Reference Value = 6.57 V/m; Power Drift = 0.095 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.098 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.491 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 5.85$  mho/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.307 mW/g

**Rear/Aux Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

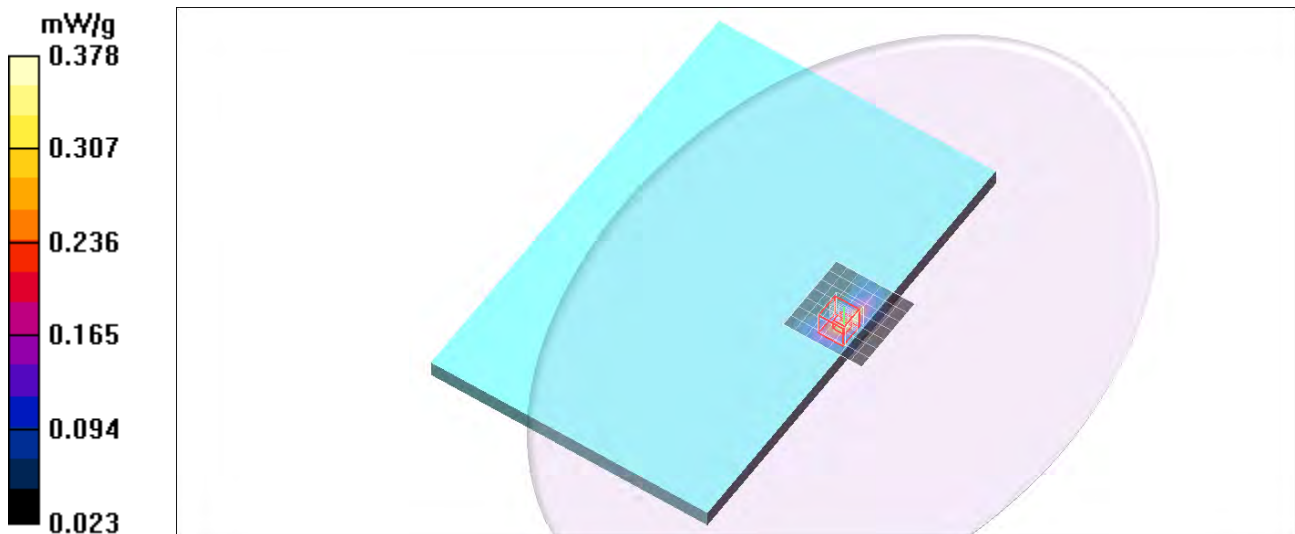
Reference Value = 5.49 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 1.14 W/kg

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.378 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.274 mW/g

**Rear/Main Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

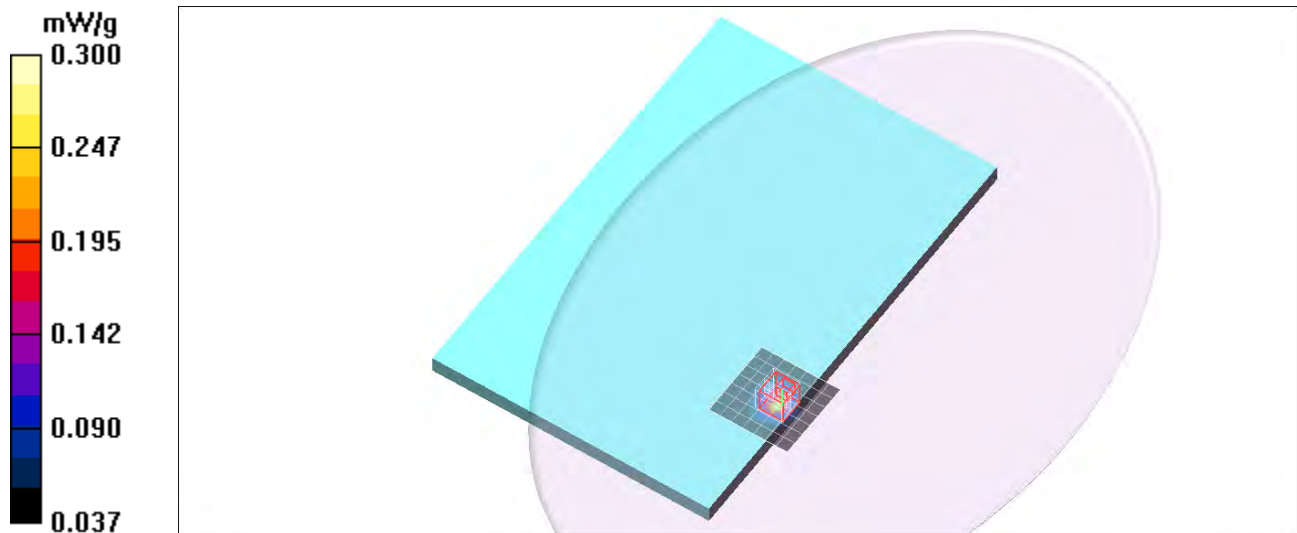
Reference Value = 2.57 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 0.838 W/kg

**SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.259 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.838 mW/g



## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.38$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.601 mW/g

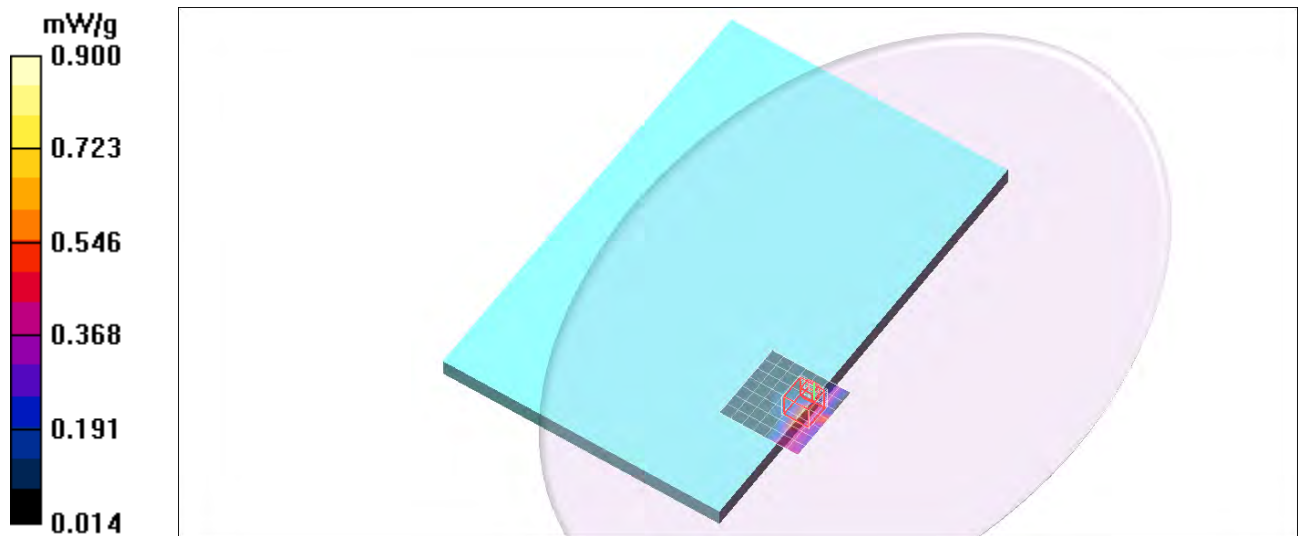
**Rear/Main Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.33 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.137 mW/g**

Maximum value of SAR (measured) = 0.890 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.79$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.612 mW/g

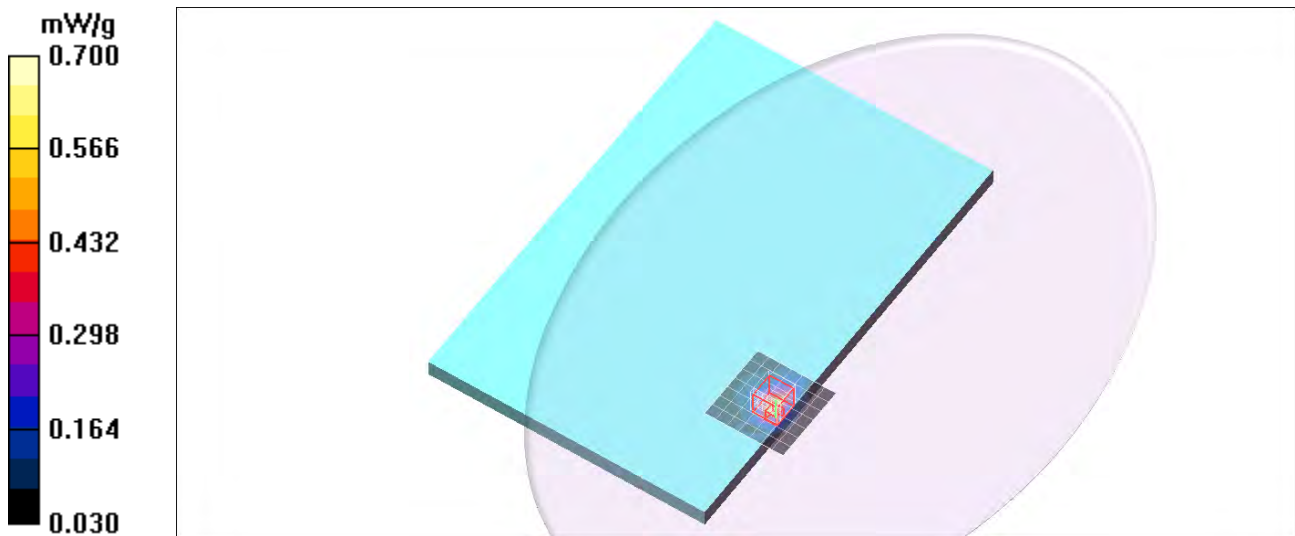
**Rear/Main Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.58 V/m; Power Drift = 0.135 dB

Peak SAR (extrapolated) = 2.14 W/kg

**SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.179 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.98$  mho/m;  $\epsilon_r = 46.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Main Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.349 mW/g

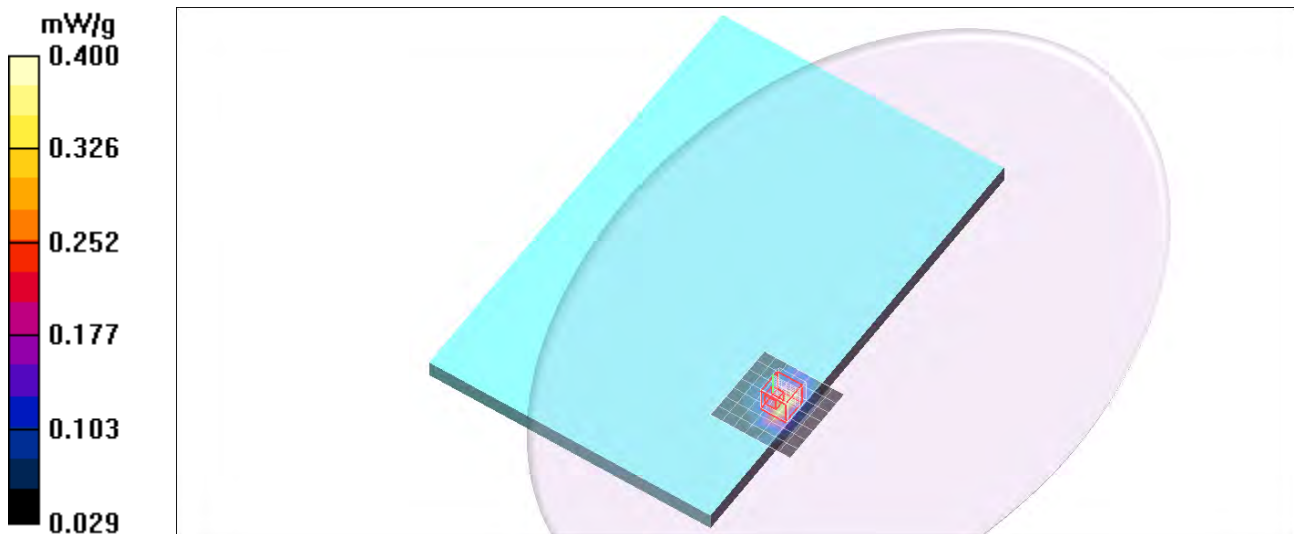
**Rear/Main Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.61 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 2.78 W/kg

**SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.163 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.734 mW/g

**Rear/Aux Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

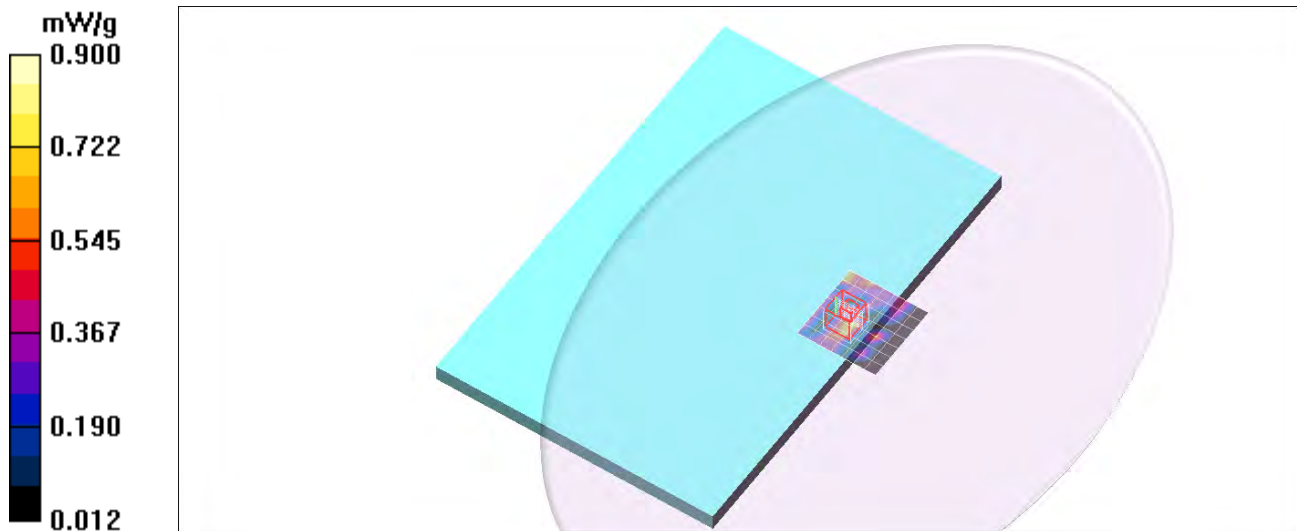
Reference Value = 12.1 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 2.02 W/kg

**SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.163 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.01 mW/g





## 5GHz Band

Frequency: 5290 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5290.3$  MHz;  $\sigma = 5.38$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch58/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.270 mW/g

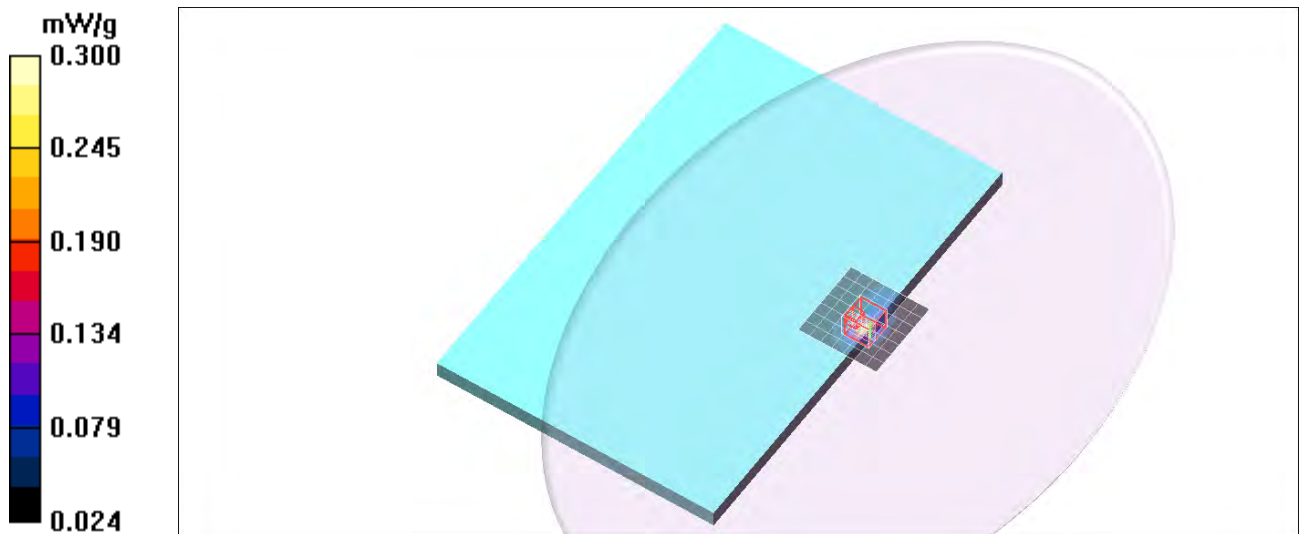
**Rear/Aux Ant/802.11ac/Ch58/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.54 V/m; Power Drift = 0.151 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.428 mW/g; SAR(10 g) = 0.250 mW/g**

Maximum value of SAR (measured) = 1.00 mW/g



## 5GHz Band

Frequency: 5610 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5610.4$  MHz;  $\sigma = 5.79$  mho/m;  $\epsilon_r = 46.5$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch122/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.510 mW/g

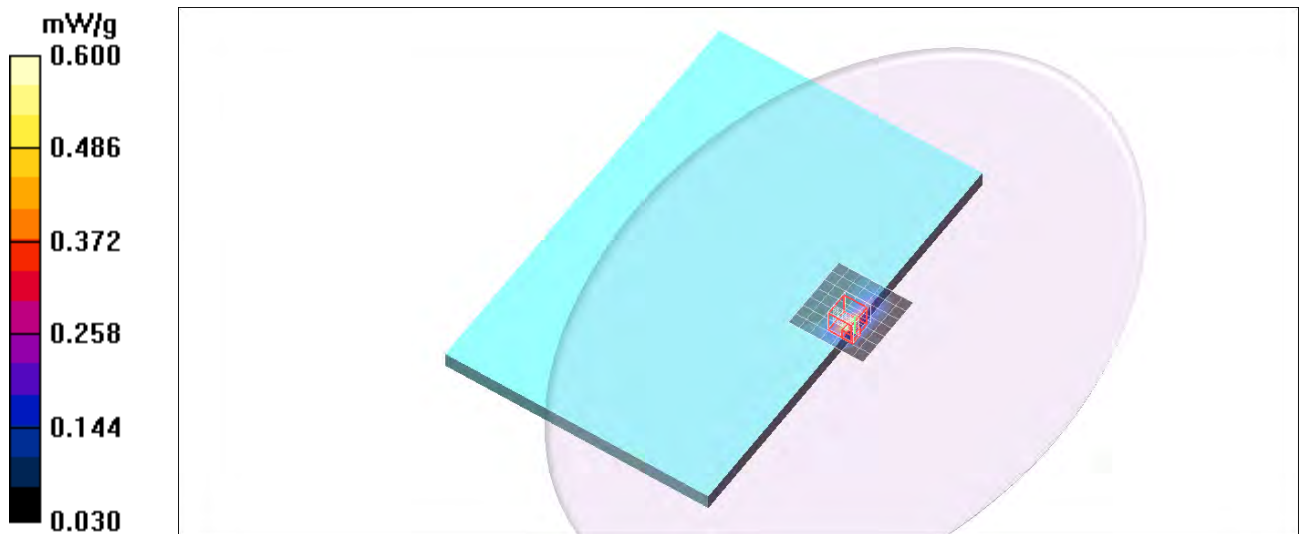
**Rear/Aux Ant/802.11ac/Ch122/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.22 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 2.31 W/kg

**SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.154 mW/g**

Maximum value of SAR (measured) = 1.08 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.98$  mho/m;  $\epsilon_r = 46.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Rear/Aux Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.401 mW/g

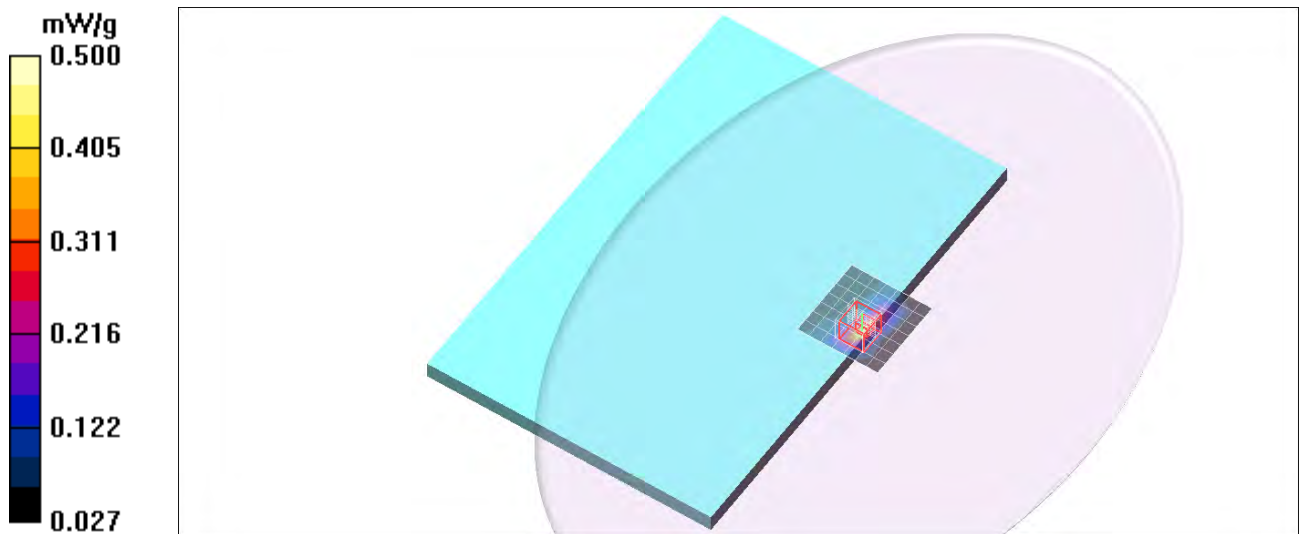
**Rear/Aux Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.17 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 2.21 W/kg

**SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.205 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.29$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.640 mW/g

**Edge3/Main Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

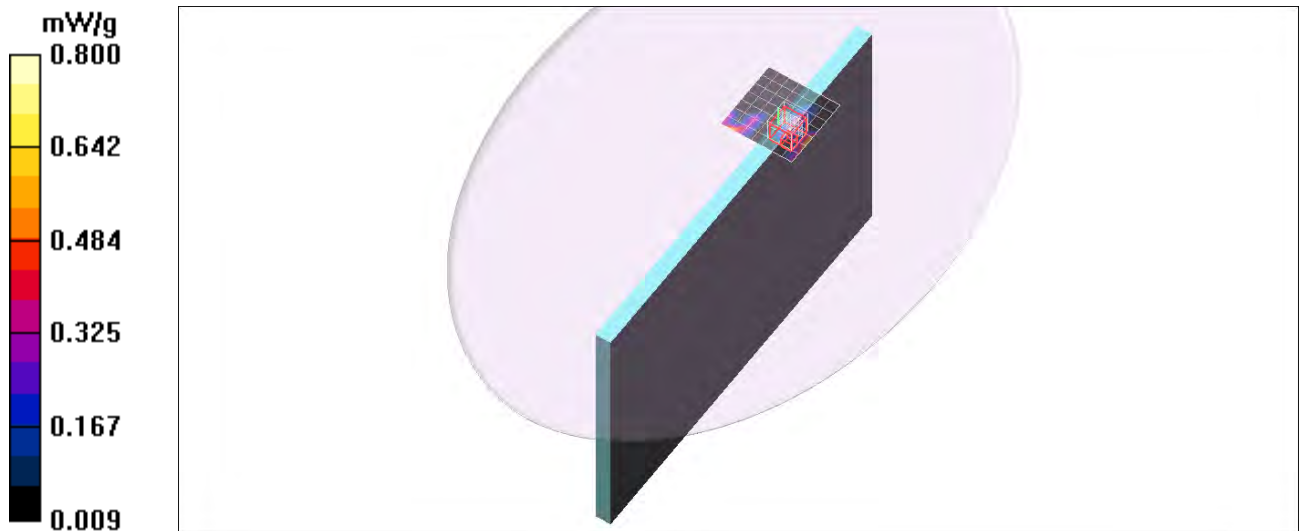
Reference Value = 1.69 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 0.912 W/kg

**SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.054 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.912 mW/g



## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.082 mW/g

**Edge3/Main Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,

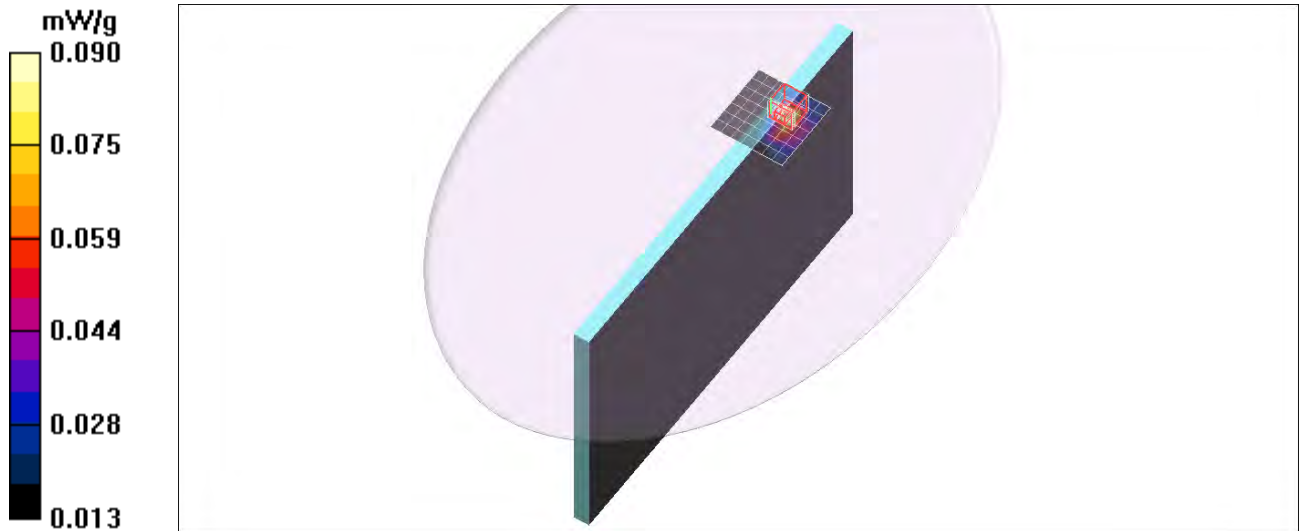
dz=2mm

Reference Value = 2.15 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.077 mW/g**

Maximum value of SAR (measured) = 0.960 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C  
Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.84$  mho/m;  $\epsilon_r = 46.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.885 mW/g

**Edge3/Main Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm,

dy=4mm, dz=2mm

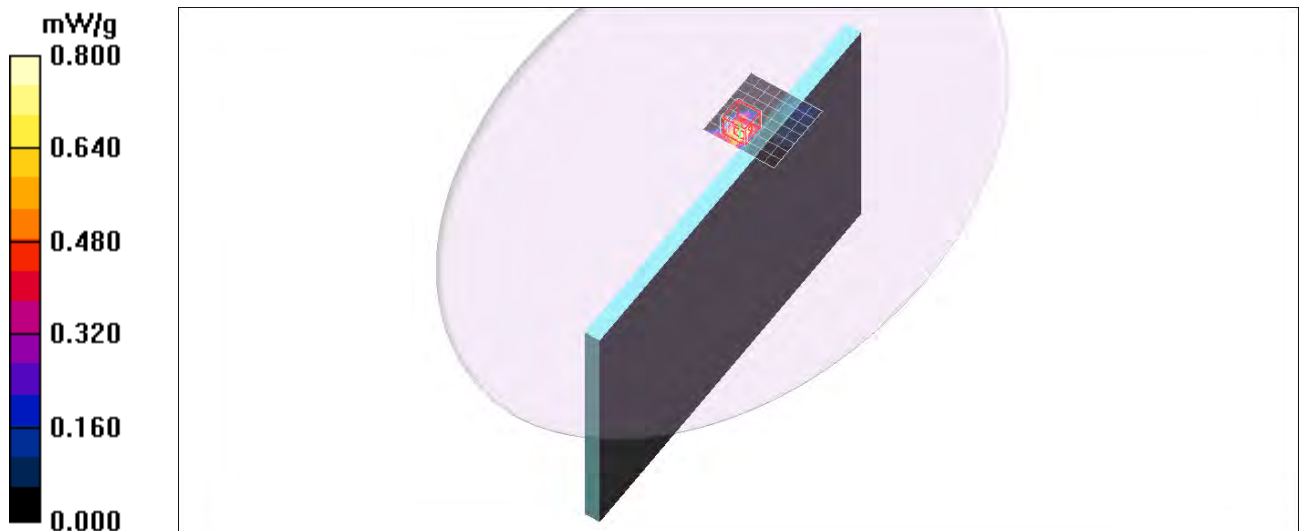
Reference Value = 2.27 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.091 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.21 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6$  mho/m;  $\epsilon_r = 46.1$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.120 mW/g

**Edge3/Main Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

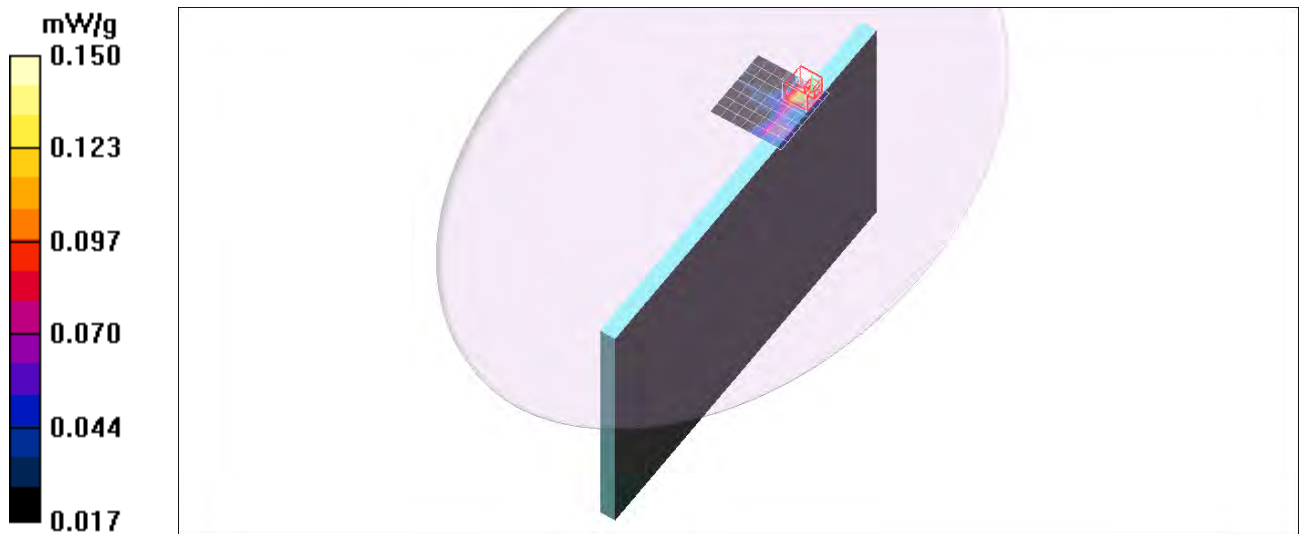
Reference Value = 2.51 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 2.80 W/kg

Peak SAR (extrapolated) = 2.80 W/kg

**SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.208 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.29$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.032 mW/g

**Edge3/Aux Ant/802.11a/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,

dz=2mm

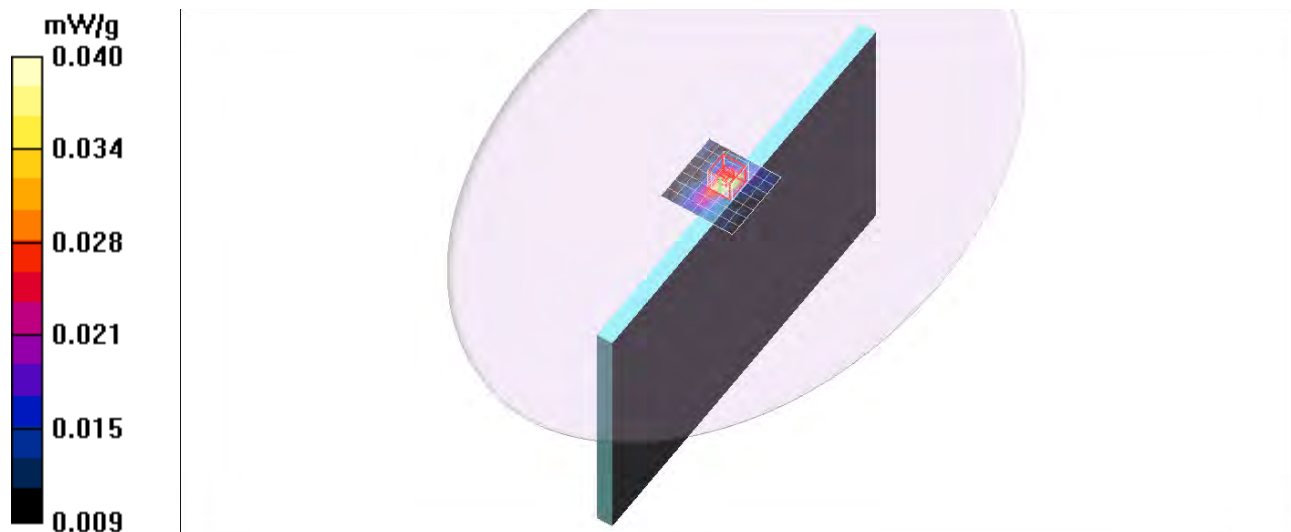
Reference Value = 2.15 V/m; Power Drift = 0.148 dB

Peak SAR (extrapolated) = 0.701 W/kg

**SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.091 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.696 mW/g





## 5GHz Band

Frequency: 5300 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5300.2$  MHz;  $\sigma = 5.39$  mho/m;  $\epsilon_r = 47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.82, 3.82, 3.82); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch60/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.074 mW/g

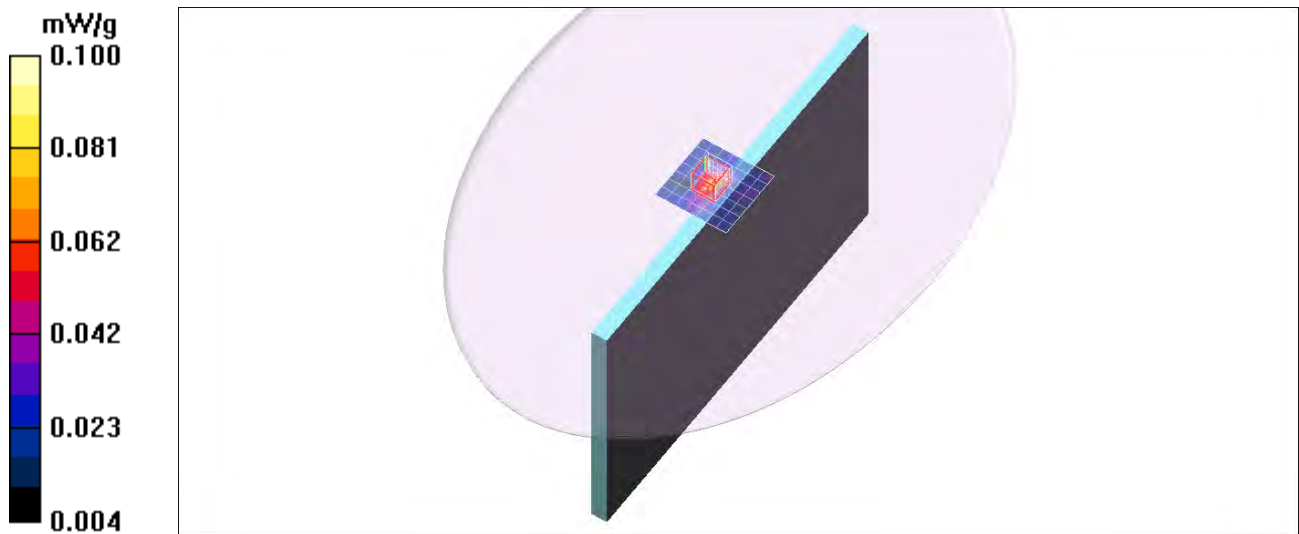
**Edge3/Aux Ant/802.11a/Ch60/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.18 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.067 mW/g**

Maximum value of SAR (measured) = 0.580 mW/g



## 5GHz Band

Frequency: 5660 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5660$  MHz;  $\sigma = 5.84$  mho/m;  $\epsilon_r = 46.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.27, 3.27, 3.27); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch132/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.152 mW/g

**Edge3/Aux Ant/802.11a/Ch132/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

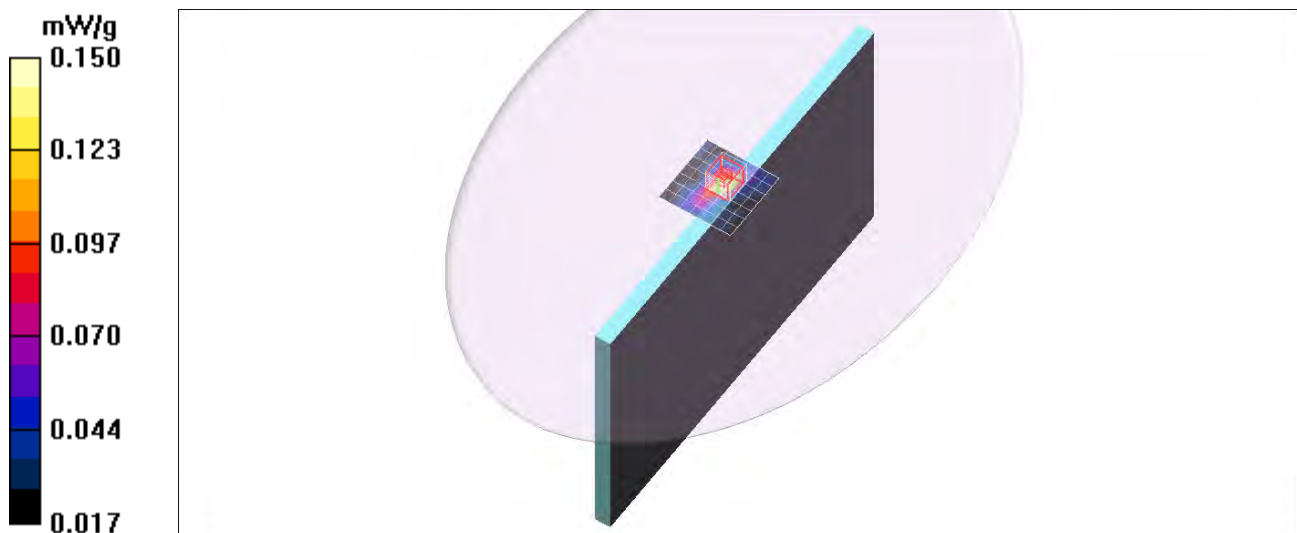
Reference Value = 3.76 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.086 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.00 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6$  mho/m;  $\epsilon_r = 46.1$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11a/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.155 mW/g

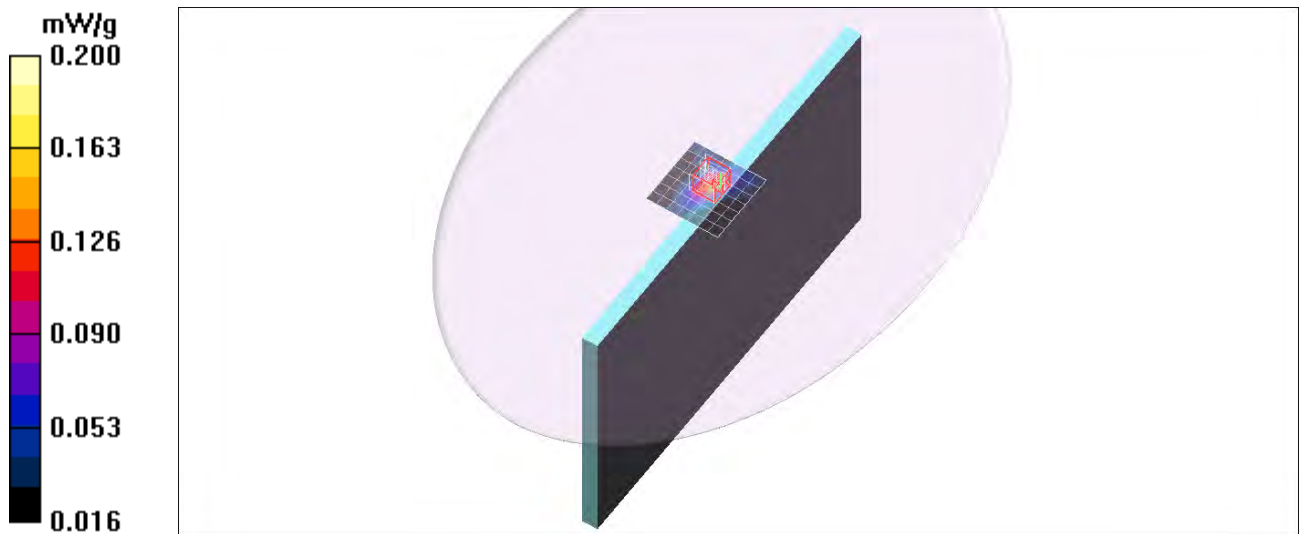
**Edge3/Aux Ant/802.11a/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.53 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.067 mW/g**

Maximum value of SAR (measured) = 0.962 mW/g



## 5GHz Band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5785.3$  MHz;  $\sigma = 6$  mho/m;  $\epsilon_r = 46.1$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11n HT20/Ch157/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.146 mW/g

**Edge3/Main Ant/802.11n HT20/Ch157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

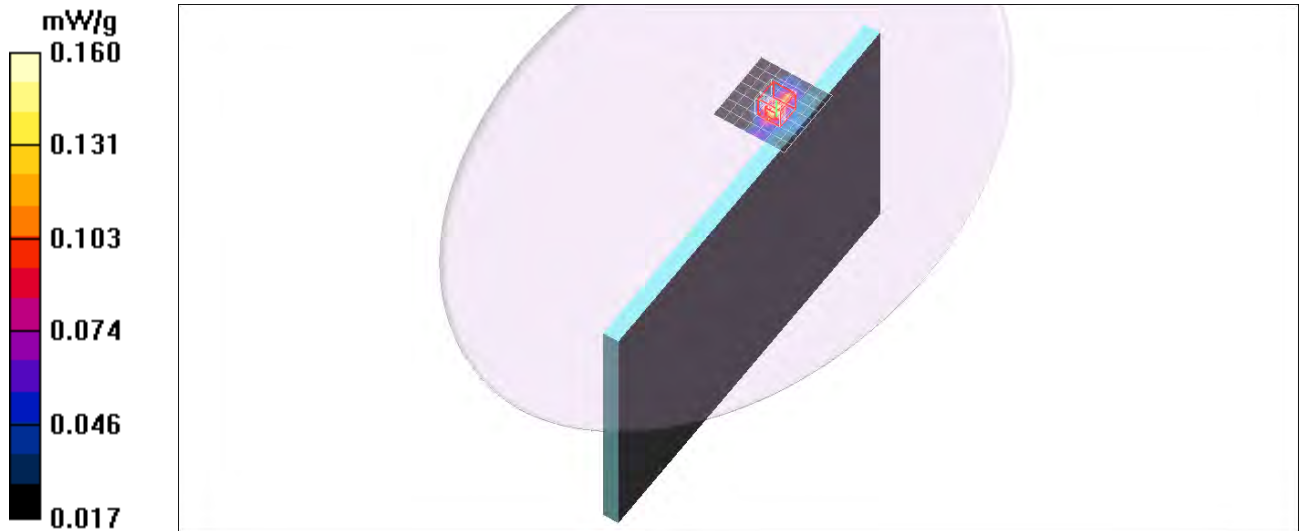
Reference Value = 2.21 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 0.289 W/kg

Peak SAR (extrapolated) = 0.289 W/kg

**SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.143 mW/g



## 5GHz Band

Frequency: 5220 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5220$  MHz;  $\sigma = 5.29$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11n HT20/Ch44/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.045 mW/g

**Edge3/Aux Ant/802.11n HT20/Ch44/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

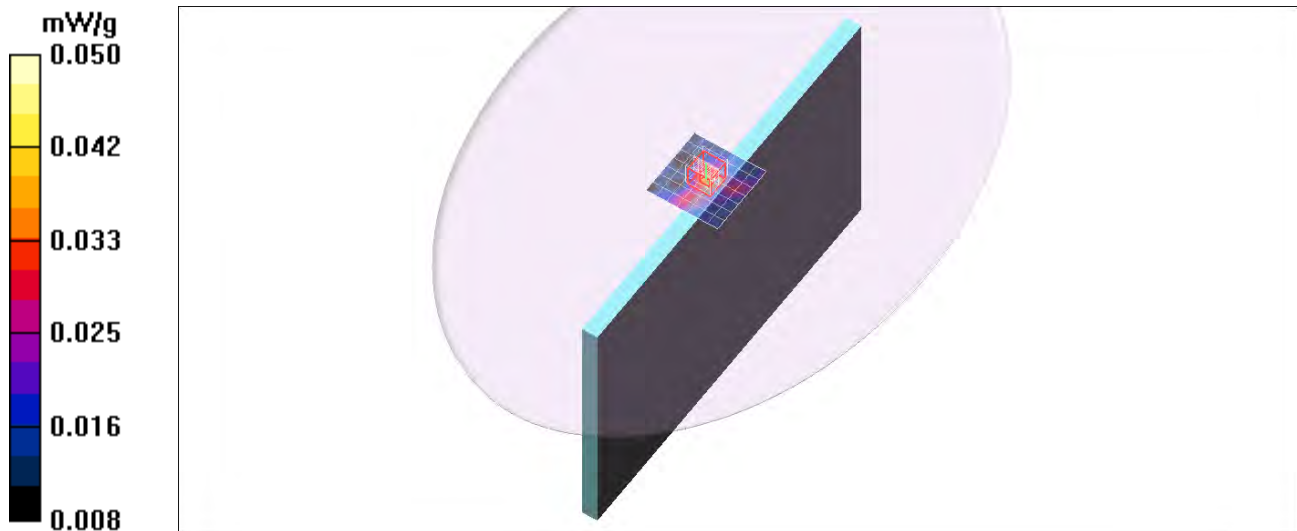
Reference Value = 2.09 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.129 W/kg

**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.029 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.067 mW/g



## 5GHz Band

Frequency: 5775 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5775.4$  MHz;  $\sigma = 5.98$  mho/m;  $\epsilon_r = 46.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(3.53, 3.53, 3.53); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Main Ant/802.11ac/Ch155/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.203 mW/g

**Edge3/Main Ant/802.11ac/Ch155/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

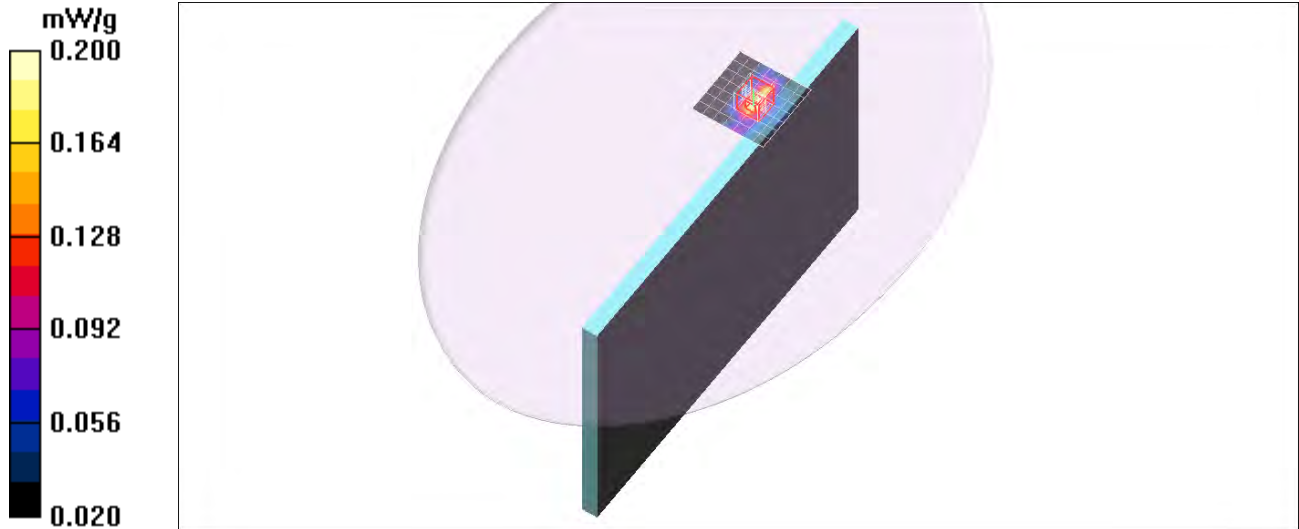
Reference Value = 2.36 V/m; Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.397 W/kg

Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.060 mW/g**

Maximum value of SAR (measured) = 0.200 mW/g



## 5GHz Band

Frequency: 5210 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used (interpolated):  $f = 5210$  MHz;  $\sigma = 5.28$  mho/m;  $\epsilon_r = 47.2$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn558; Calibrated: 7/25/2013
- Probe: EX3DV4 - SN3554; ConvF(4.02, 4.02, 4.02); Calibrated: 9/26/2013
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: Flat Phantom ELI4.0; Type: QDOVA001BA; Serial: SN: 1052

**Edge3/Aux Ant/802.11ac/Ch42/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.030 mW/g

**Edge3/Aux Ant/802.11ac/Ch42/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

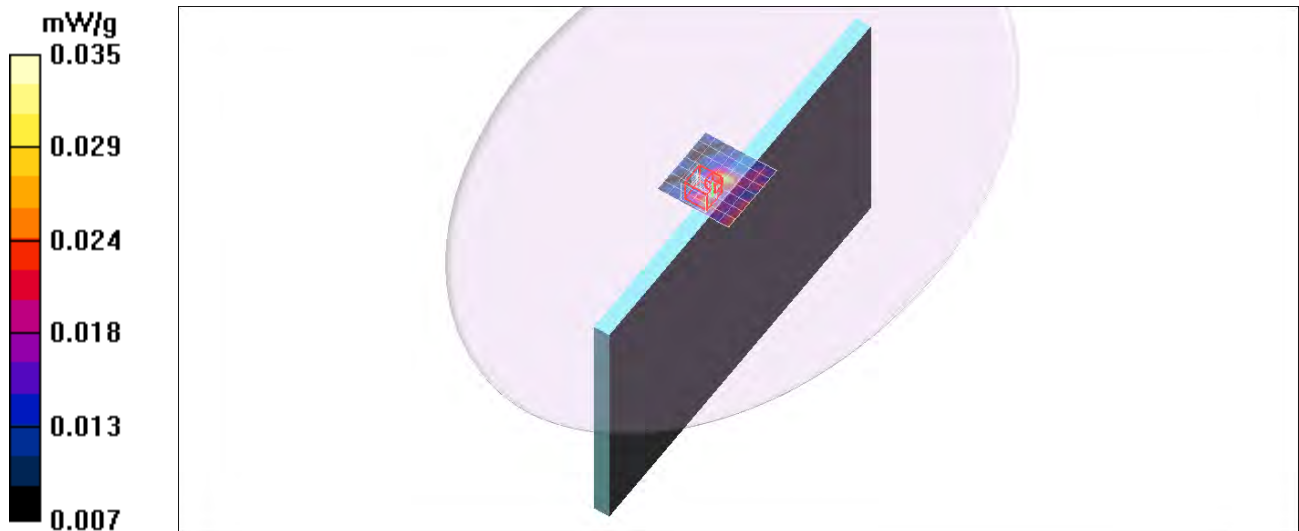
Reference Value = 2.44 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.063 W/kg

**SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.027 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.057 mW/g







Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **CCS-TW (Auden)**

Certificate No: **EX3-3554\_Sep13**

**CALIBRATION CERTIFICATE**

Object **EX3DV4 - SN:3554**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6  
Calibration procedure for dosimetric E-field probes**

Calibration date: **September 26, 2013**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	04-Apr-13 (No. 217-01733)	Apr-14
Power sensor E4412A	MY41498087	04-Apr-13 (No. 217-01733)	Apr-14
Reference 3 dB Attenuator	SN: S5054 (3c)	04-Apr-13 (No. 217-01737)	Apr-14
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-13 (No. 217-01735)	Apr-14
Reference 30 dB Attenuator	SN: S5129 (30b)	04-Apr-13 (No. 217-01738)	Apr-14
Reference Probe ES3DV2	SN: 3013	28-Dec-12 (No. ES3-3013_Dec12)	Dec-13
DAE4	SN: 660	4-Sep-13 (No. DAE4-660_Sep13)	Apr-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-15
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-12)	In house check: Oct-13

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 26, 2013

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.





Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

**Glossary:**

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization $\varphi$	$\varphi$ rotation around probe axis
Polarization $\vartheta$	$\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

**Calibration is Performed According to the Following Standards:**

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

**Methods Applied and Interpretation of Parameters:**

- **NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- **NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* *frequency\_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- **DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- **PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- **A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- **ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- **Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

# Probe EX3DV4

## SN:3554

Manufactured: July 13, 2004  
Calibrated: September 26, 2013

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3554

### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup>	0.40	0.46	0.38	$\pm 10.1 \%$
DCP (mV) <sup>B</sup>	98.6	97.6	99.7	

### Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc <sup>E</sup> (k=2)
0	CW	X	0.0	0.0	1.0	0.00	187.4	$\pm 2.5 \%$
		Y	0.0	0.0	1.0		152.5	
		Z	0.0	0.0	1.0		182.8	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of NormX,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3554

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
900	41.5	0.97	7.74	7.74	7.74	0.41	0.94	± 12.0 %
1810	40.0	1.40	6.85	6.85	6.85	0.68	0.67	± 12.0 %
1900	40.0	1.40	6.81	6.81	6.81	0.48	0.79	± 12.0 %
2000	40.0	1.40	6.80	6.80	6.80	0.76	0.62	± 12.0 %
2450	39.2	1.80	6.24	6.24	6.24	0.54	0.72	± 12.0 %
5200	36.0	4.66	4.73	4.73	4.73	0.30	1.80	± 13.1 %
5300	35.9	4.76	4.39	4.39	4.39	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.32	4.32	4.32	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.10	4.10	4.10	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.09	4.09	4.09	0.40	1.80	± 13.1 %

<sup>C</sup> Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3554

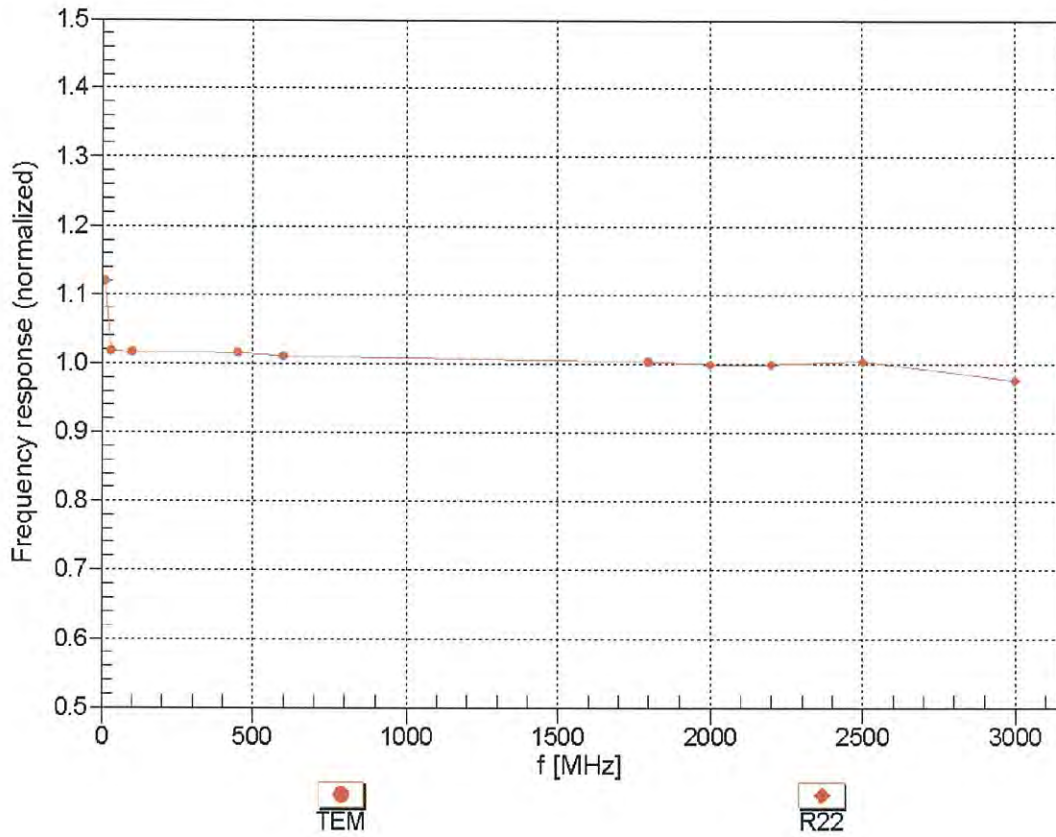
### Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
900	55.0	1.05	7.70	7.70	7.70	0.58	0.78	± 12.0 %
1810	53.3	1.52	6.65	6.65	6.65	0.69	0.70	± 12.0 %
1900	53.3	1.52	6.52	6.52	6.52	0.40	0.89	± 12.0 %
2000	53.3	1.52	6.63	6.63	6.63	0.80	0.64	± 12.0 %
2450	52.7	1.95	6.24	6.24	6.24	0.75	0.66	± 12.0 %
5200	49.0	5.30	4.02	4.02	4.02	0.40	1.90	± 13.1 %
5300	48.9	5.42	3.82	3.82	3.82	0.40	1.90	± 13.1 %
5500	48.6	5.65	3.59	3.59	3.59	0.40	1.90	± 13.1 %
5600	48.5	5.77	3.27	3.27	3.27	0.50	1.90	± 13.1 %
5800	48.2	6.00	3.53	3.53	3.53	0.50	1.90	± 13.1 %

<sup>C</sup> Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

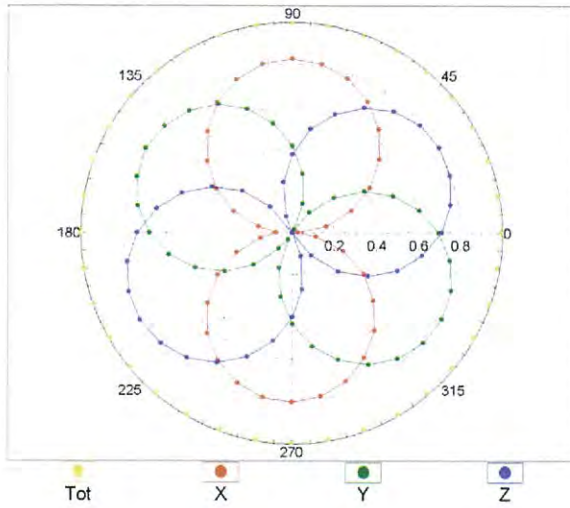
# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



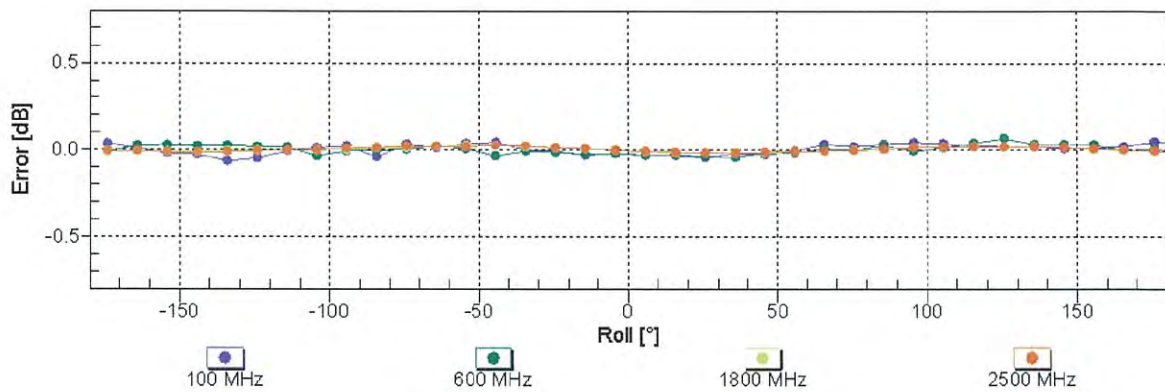
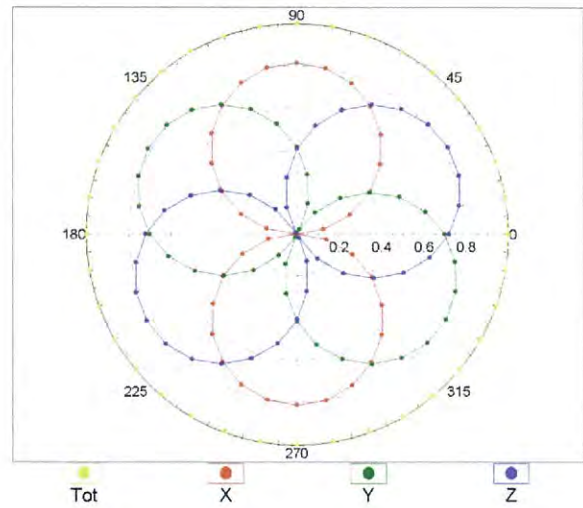
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

### Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$

f=600 MHz, TEM



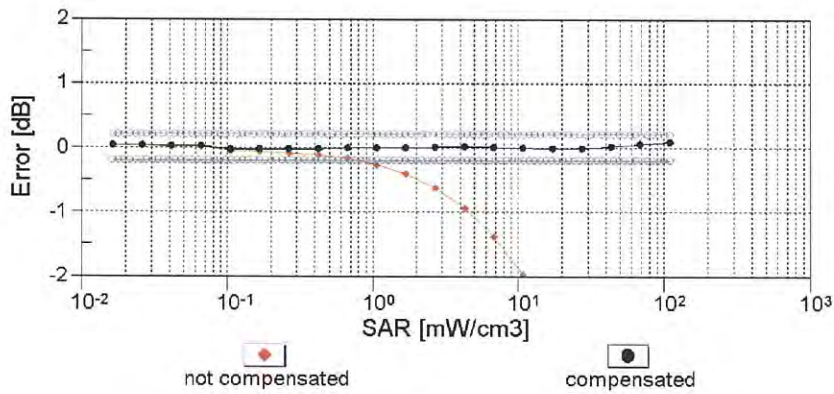
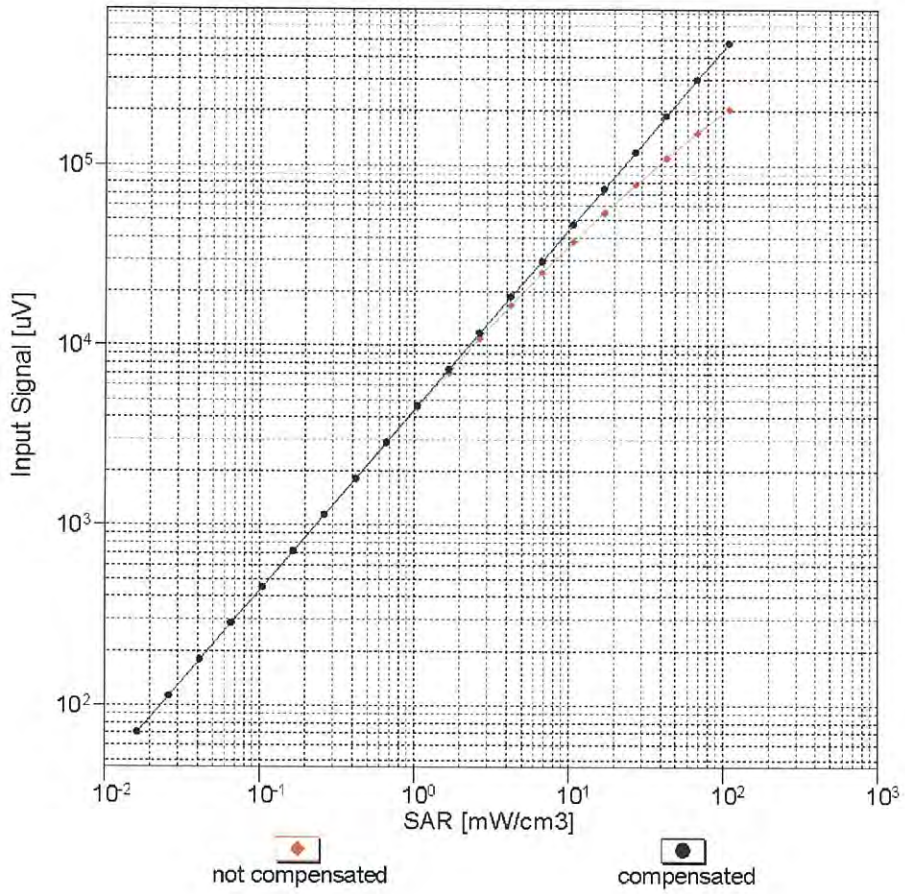
f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  (k=2)



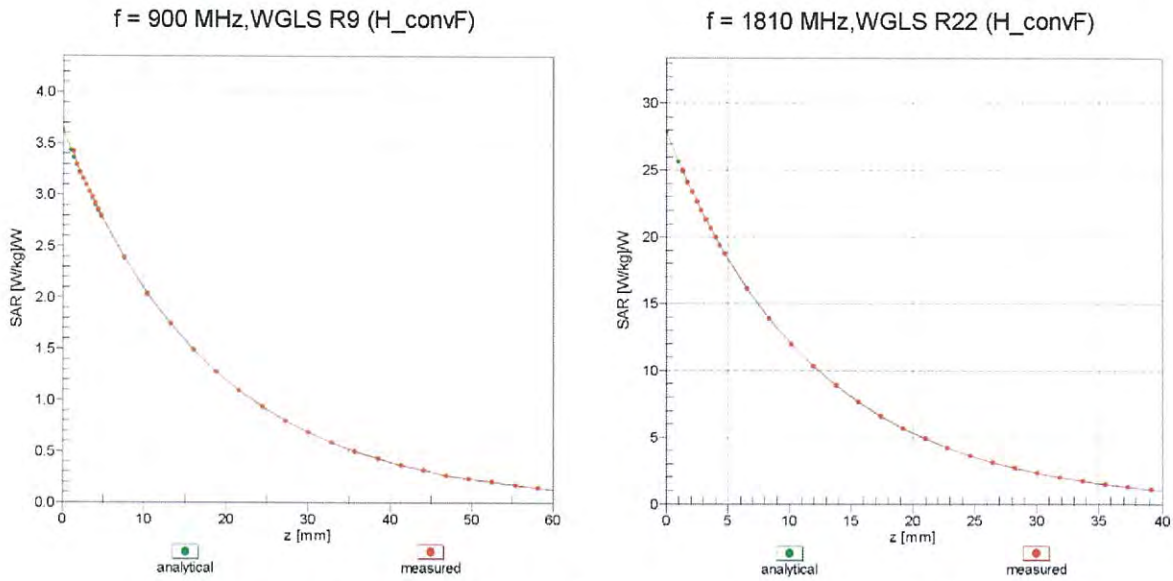
### Dynamic Range $f(SAR_{head})$ (TEM cell , $f = 900$ MHz)



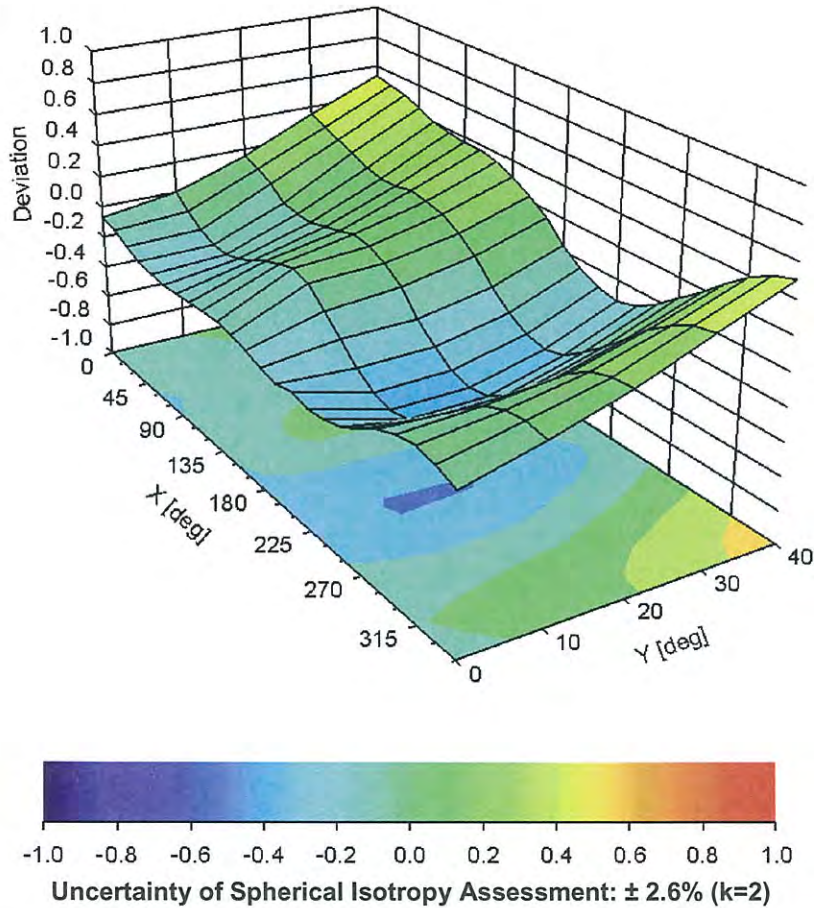
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )



# Conversion Factor Assessment



## Deviation from Isotropy in Liquid Error ( $\phi, \vartheta$ ), f = 900 MHz



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3554

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-34.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm



## IMPORTANT NOTICE

### USAGE OF THE DAE 4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

**Battery Exchange:** The battery cover of the DAE4 unit is closed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

**Shipping of the DAE:** Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

**E-Stop Failures:** Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

**Repair:** Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

**DASY Configuration Files:** Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

**Important Note:**

**Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.**

**Important Note:**

**Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the E-stop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.**

**Important Note:**

**To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.**





Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **CCS-TW (Auden)**

Certificate No: **DAE4-558\_Jul13**

## CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BM - SN: 558**

Calibration procedure(s) **QA CAL-06.v26  
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **July 25, 2013**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	02-Oct-12 (No:12728)	Oct-13
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-13 (in house check)	In house check: Jan-14
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-13 (in house check)	In house check: Jan-14

Calibrated by:	Name Dominique Steffen	Function Technician	Signature 
Approved by:	Fin Bomholt	Deputy Technical Manager	

Issued: July 25, 2013

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.





Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

## Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

## Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

## DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 $\mu$ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.834 $\pm$ 0.02% (k=2)	404.719 $\pm$ 0.02% (k=2)	404.888 $\pm$ 0.02% (k=2)
Low Range	3.96252 $\pm$ 1.50% (k=2)	3.93898 $\pm$ 1.50% (k=2)	3.98830 $\pm$ 1.50% (k=2)

## Connector Angle

Connector Angle to be used in DASY system	226.5 $^{\circ}$ $\pm$ 1 $^{\circ}$
---	-------------------------------------



## Appendix

### 1. DC Voltage Linearity

High Range	Reading ( $\mu\text{V}$ )	Difference ( $\mu\text{V}$ )	Error (%)
Channel X + Input	199999.87	2.22	0.00
Channel X + Input	20007.13	6.49	0.03
Channel X - Input	-19995.23	5.84	-0.03
Channel Y + Input	199999.72	2.06	0.00
Channel Y + Input	20004.76	4.02	0.02
Channel Y - Input	-19995.40	5.45	-0.03
Channel Z + Input	199999.60	2.04	0.00
Channel Z + Input	20002.08	1.38	0.01
Channel Z - Input	-20000.87	0.09	-0.00

Low Range	Reading ( $\mu\text{V}$ )	Difference ( $\mu\text{V}$ )	Error (%)
Channel X + Input	2000.97	0.18	0.01
Channel X + Input	201.57	0.30	0.15
Channel X - Input	-198.13	0.50	-0.25
Channel Y + Input	2001.13	0.17	0.01
Channel Y + Input	201.02	-0.49	-0.24
Channel Y - Input	-198.55	-0.05	0.02
Channel Z + Input	2000.94	-0.06	-0.00
Channel Z + Input	200.15	-1.21	-0.60
Channel Z - Input	-199.64	-1.04	0.52

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading ( $\mu\text{V}$ )	Low Range Average Reading ( $\mu\text{V}$ )
Channel X	200	1.27	-0.63
	- 200	1.15	-0.57
Channel Y	200	8.66	8.49
	- 200	-9.25	-9.75
Channel Z	200	3.62	3.94
	- 200	-5.72	-5.74

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X ( $\mu\text{V}$ )	Channel Y ( $\mu\text{V}$ )	Channel Z ( $\mu\text{V}$ )
Channel X	200	-	5.21	-0.00
Channel Y	200	9.58	-	5.96
Channel Z	200	7.07	7.92	-

#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16226	15249
Channel Y	15710	15696
Channel Z	16055	16722

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M $\Omega$

	Average ( $\mu$ V)	min. Offset ( $\mu$ V)	max. Offset ( $\mu$ V)	Std. Deviation ( $\mu$ V)
Channel X	0.52	-0.76	1.55	0.43
Channel Y	-0.06	-1.00	1.38	0.46
Channel Z	-0.89	-1.79	0.54	0.46

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

#### 8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

#### 9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9