

Test Laboratory: UL CCS SAR Lab B

**SystemPerformanceCheck-D2450V2 SN 706**

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

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.977$  mho/m;  $\epsilon_r = 50.87$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(6.87, 6.87, 6.87); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/Pin=100 mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 7.451 mW/g

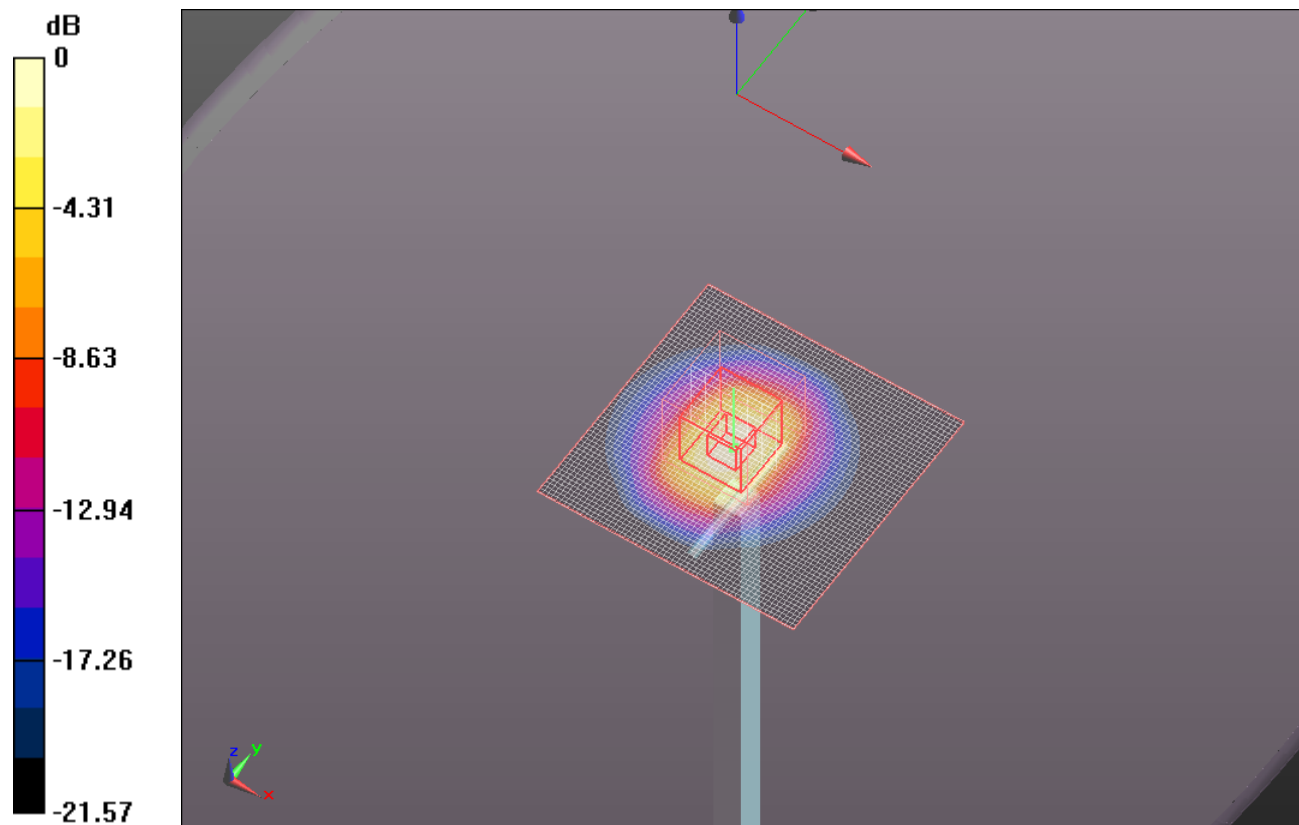
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.031 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 11.389 W/kg

**SAR(1 g) = 5.47 mW/g; SAR(10 g) = 2.54 mW/g**

Maximum value of SAR (measured) = 7.788 mW/g

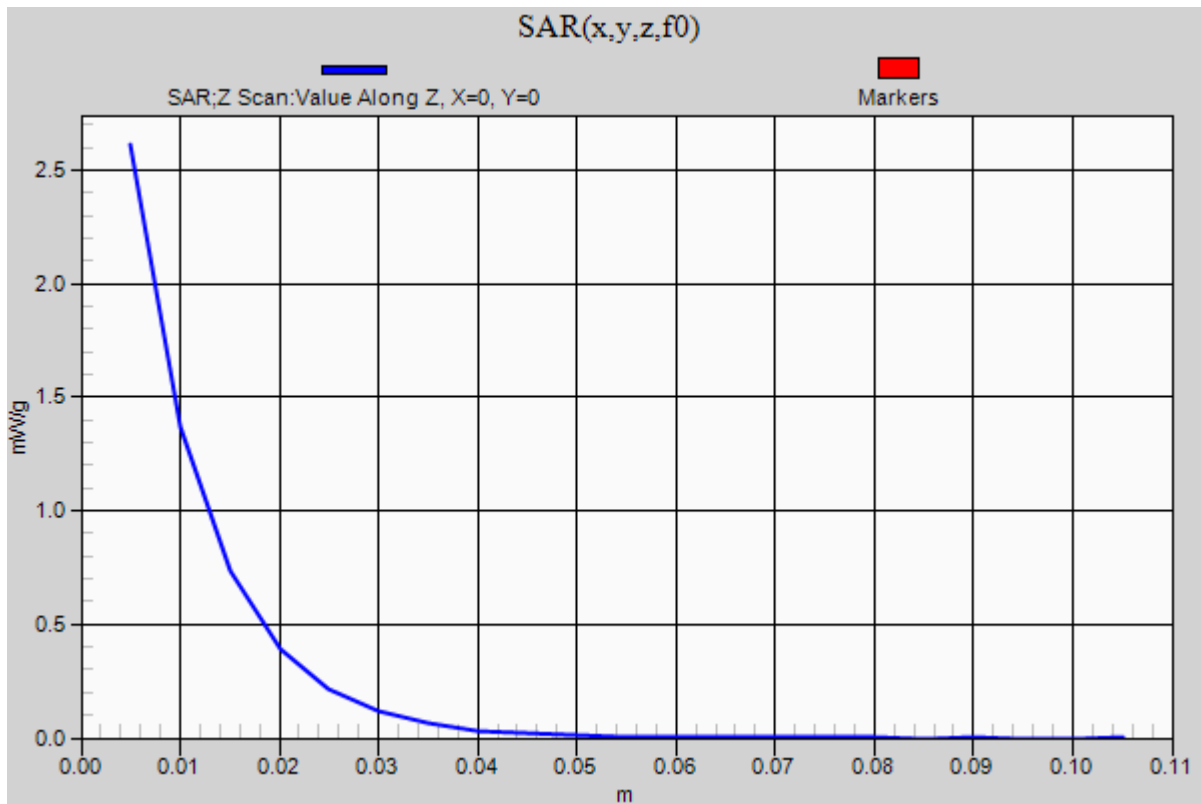


0 dB = 7.790mW/g

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**SystemPerformanceCheck-D2450V2 SN 706**

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

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 2.613 mW/g

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**SystemPerformanceCheck-D5GHzV2 SN 1075**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.041$  mho/m;  $\epsilon_r = 49.687$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/5.2 GHz, Pin=100mW/Area Scan (61x61x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 12.450 mW/g

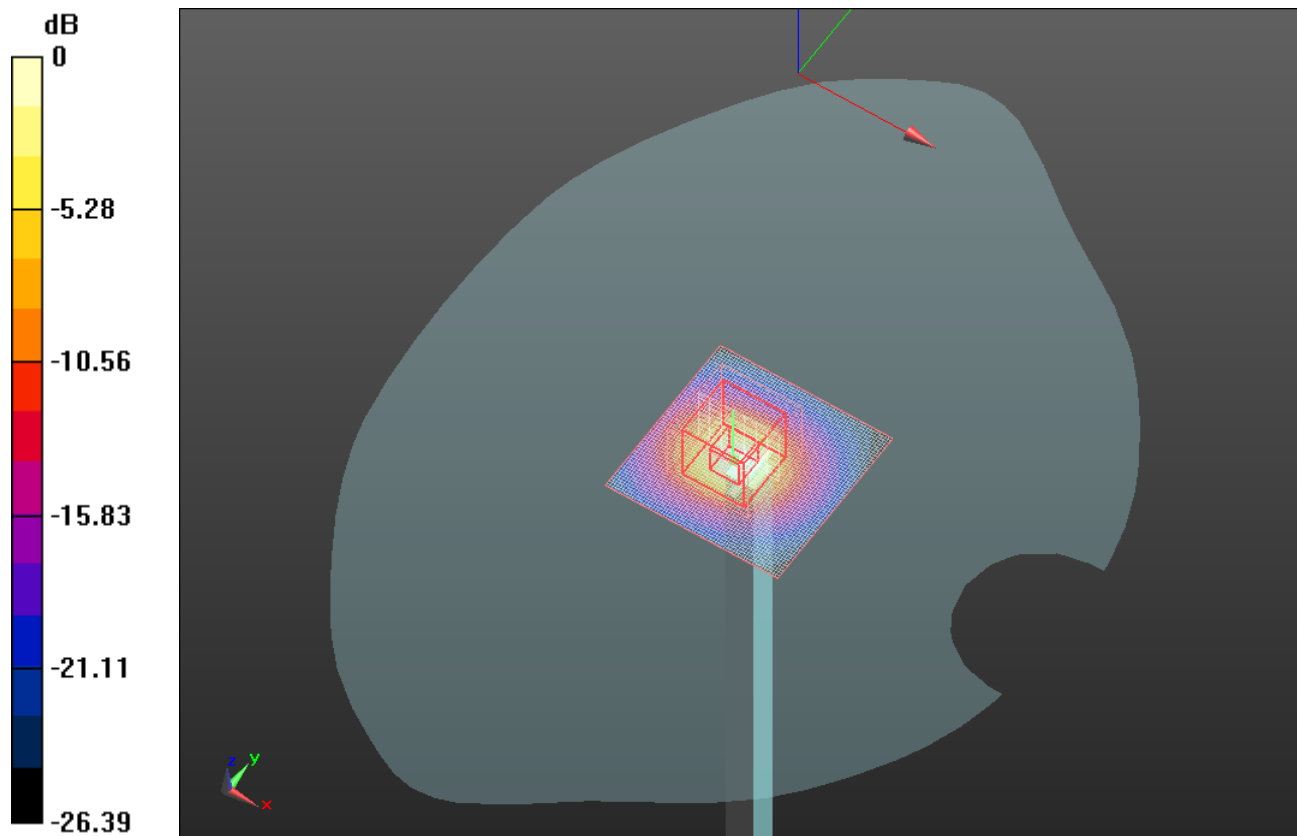
**Body/5.2 GHz, Pin=100mW/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 48.671 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 24.494 W/kg

**SAR(1 g) = 7.18 mW/g; SAR(10 g) = 2.05 mW/g**

Maximum value of SAR (measured) = 12.919 mW/g



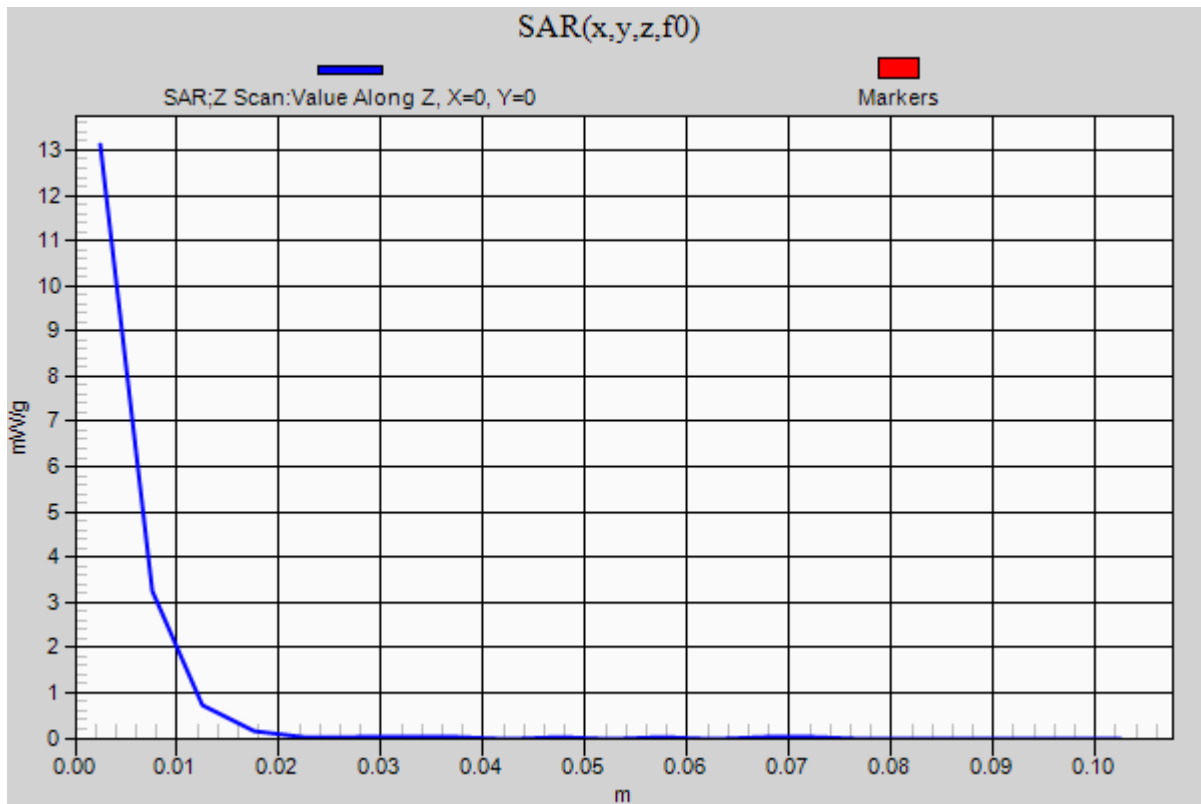
0 dB = 12.920mW/g

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## SystemPerformanceCheck-D5GHzV2 SN 1075

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

**Body/5.2 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.117 mW/g



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**SystemPerformanceCheck-D5GHzV2 SN 1075**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.714$  mho/m;  $\epsilon_r = 49.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(3.49, 3.49, 3.49); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/5.5 GHz, Pin=100mW/Area Scan (61x61x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.072 mW/g

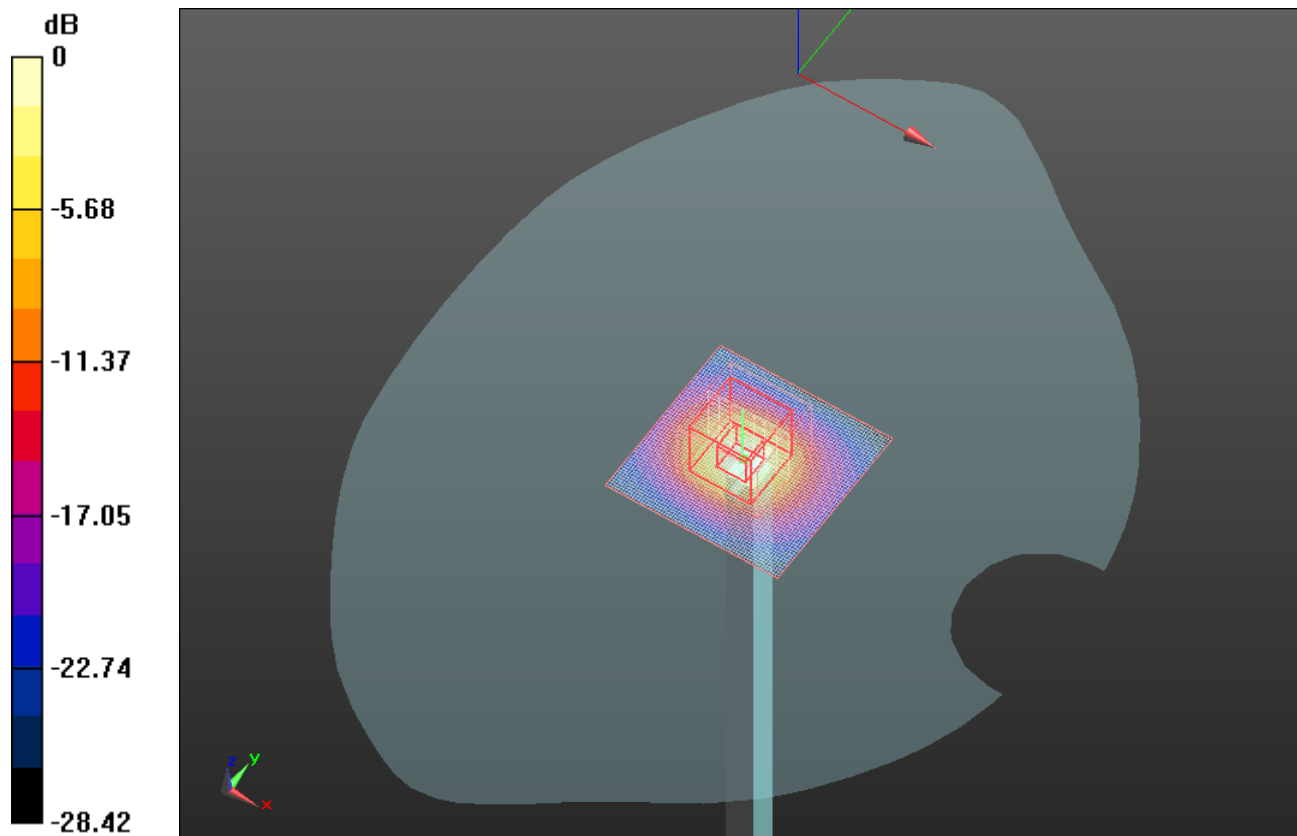
**Body/5.5 GHz, Pin=100mW/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 53.893 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 28.744 W/kg

**SAR(1 g) = 8.38 mW/g; SAR(10 g) = 2.38 mW/g**

Maximum value of SAR (measured) = 15.223 mW/g

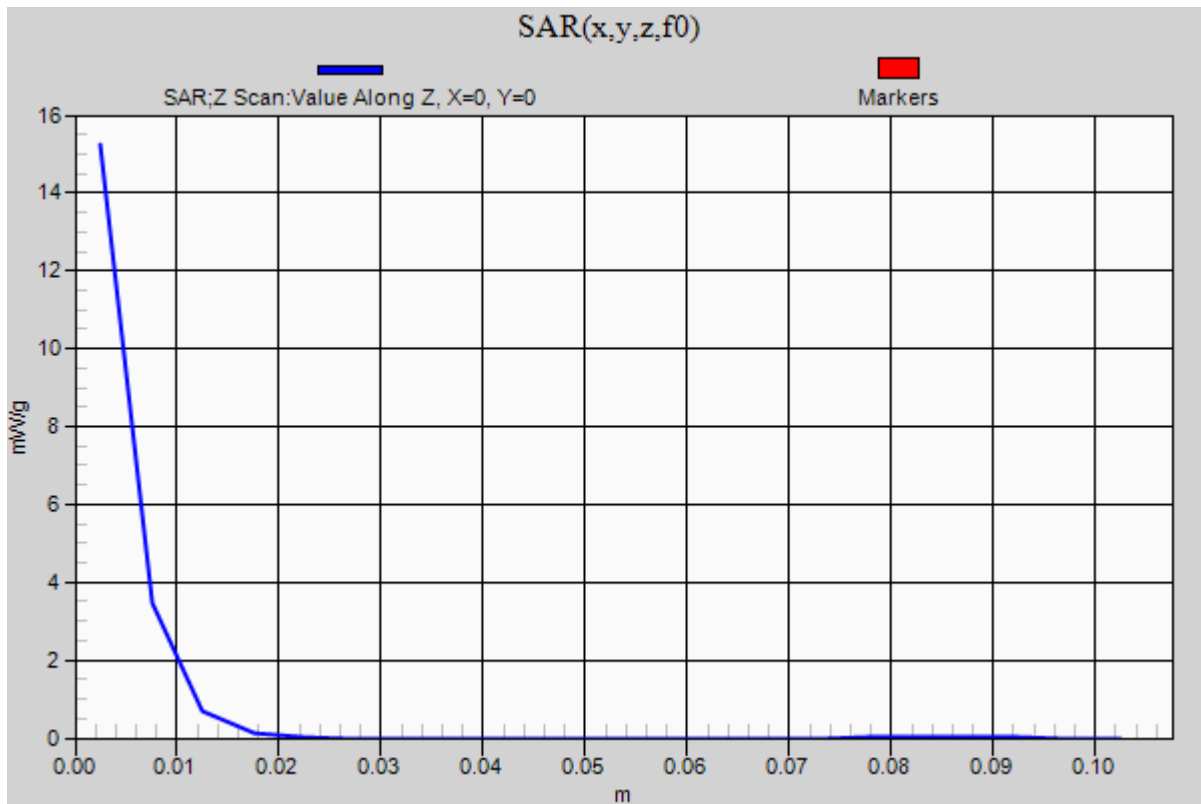


0 dB = 15.220mW/g

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**SystemPerformanceCheck-D5GHzV2 SN 1075**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

**Body/5.5 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 15.238 mW/g

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**SystemPerformanceCheck-D5GHzV2 SN 1075**

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

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.123$  mho/m;  $\epsilon_r = 49.065$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(3.58, 3.58, 3.58); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/5.8 GHz, Pin=100mW/Area Scan (61x61x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 13.002 mW/g

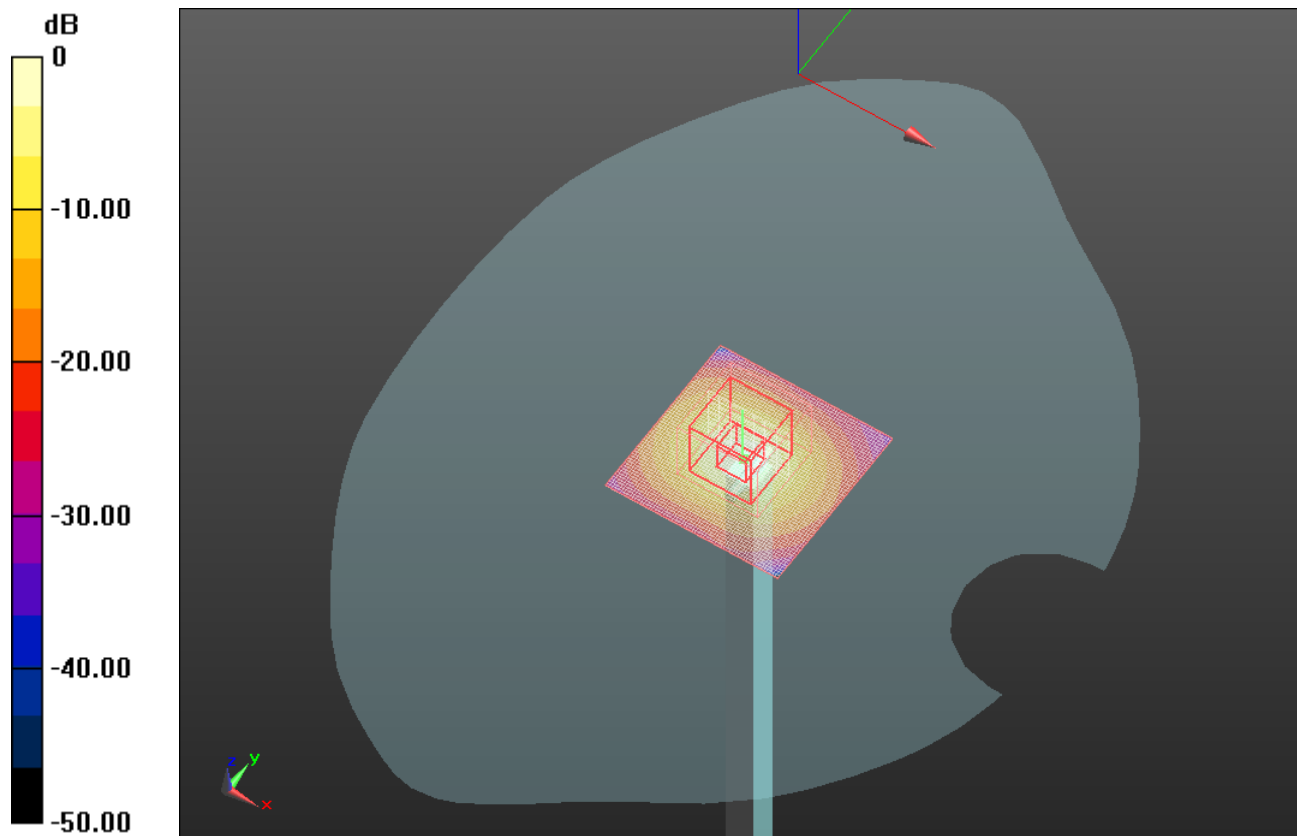
**Body/5.8 GHz, Pin=100mW/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 49.001 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 26.883 W/kg

**SAR(1 g) = 7.26 mW/g; SAR(10 g) = 2.04 mW/g**

Maximum value of SAR (measured) = 13.306 mW/g

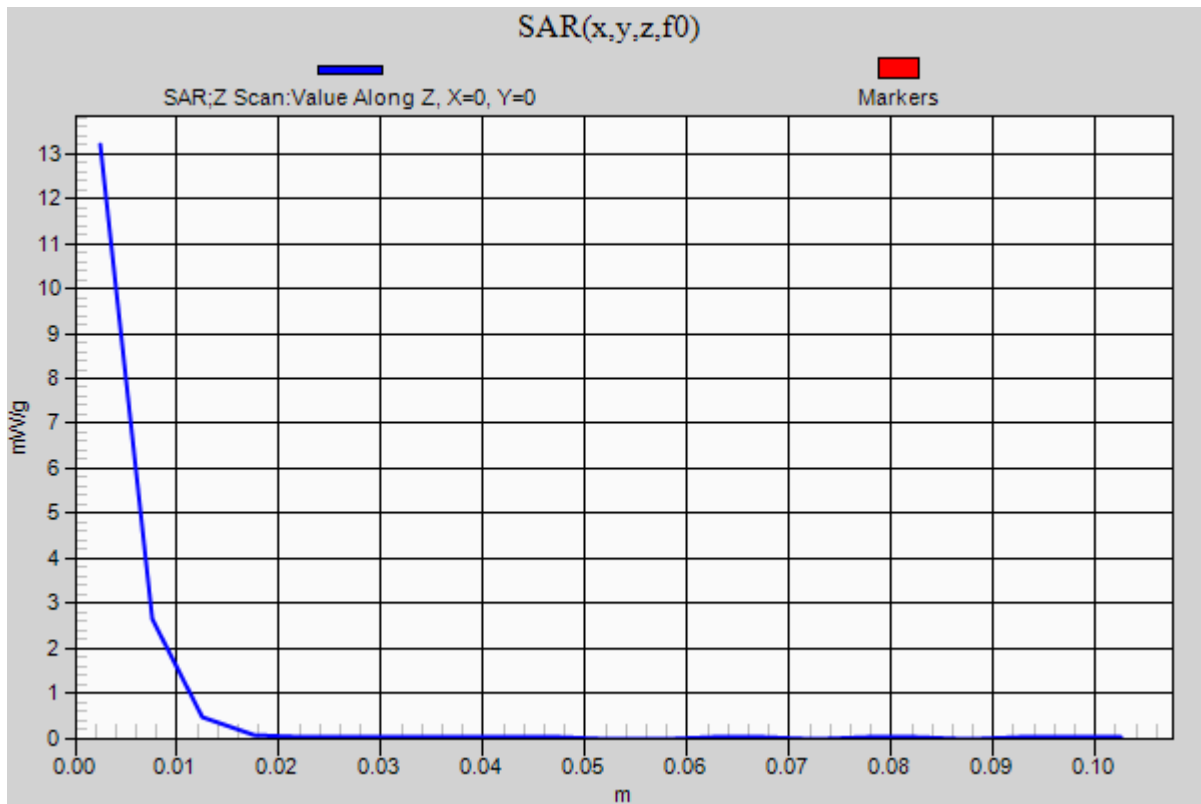


0 dB = 13.310mW/g

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**SystemPerformanceCheck-D5GHzV2 SN 1075**

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

**Body/5.8 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.201 mW/g

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**SystemPerformanceCheck-D5GHzV2 SN 1075**

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.712$  mho/m;  $\epsilon_r = 50.967$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(3.49, 3.49, 3.49); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/5.5 GHz, Pin=100mW/Area Scan (61x61x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 15.052 mW/g

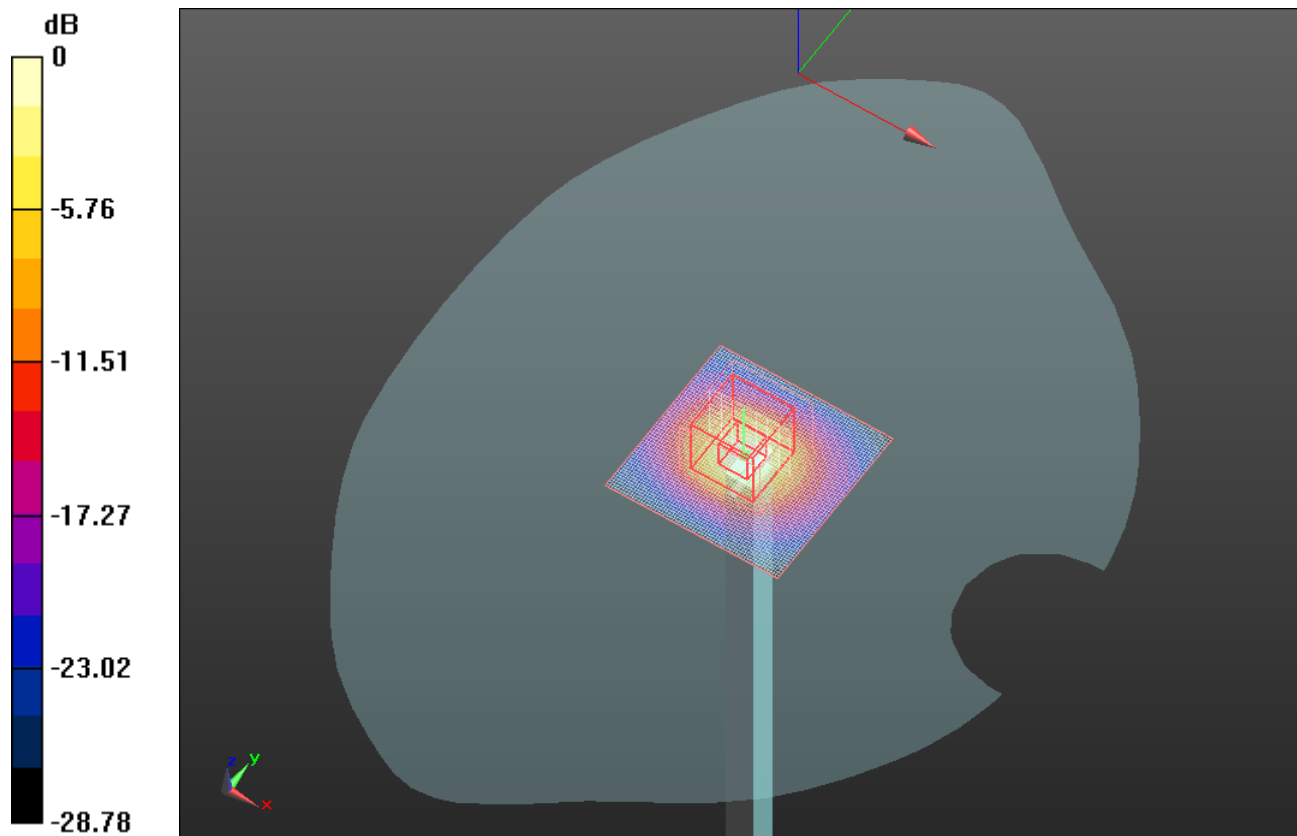
**Body/5.5 GHz, Pin=100mW/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 53.817 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 29.696 W/kg

**SAR(1 g) = 8.44 mW/g; SAR(10 g) = 2.39 mW/g**

Maximum value of SAR (measured) = 15.463 mW/g



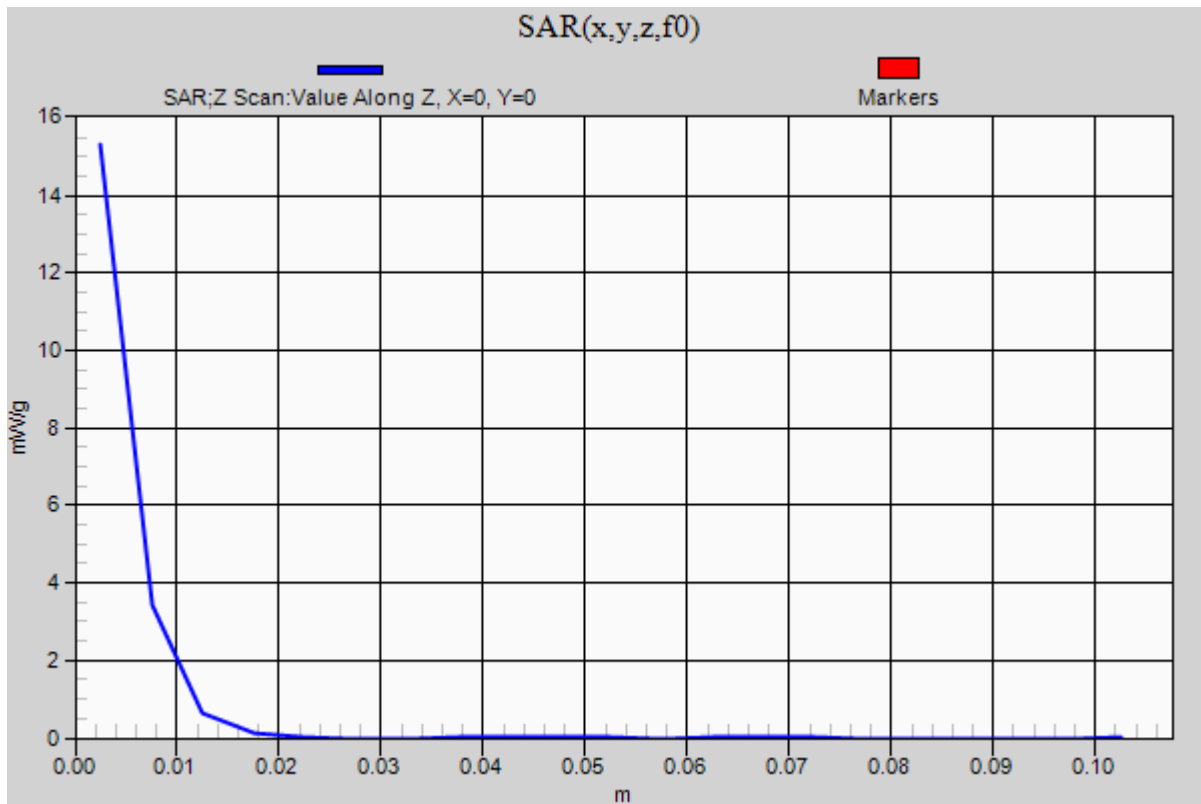
0 dB = 15.460mW/g

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## SAM\_SystemPerformanceCheck-D5GHzV2 SN 1075

Communication System: CW; Frequency: 5500 MHz; Duty Cycle: 1:1

**Body/5.5 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 15.312 mW/g



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**SystemPerformanceCheck-D5GHzV2 SN 1075**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.105$  mho/m;  $\epsilon_r = 51.356$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(4.1, 4.1, 4.1); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP1632
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

**Body/5.2 GHz, Pin=100mW/Area Scan (61x61x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 13.359 mW/g

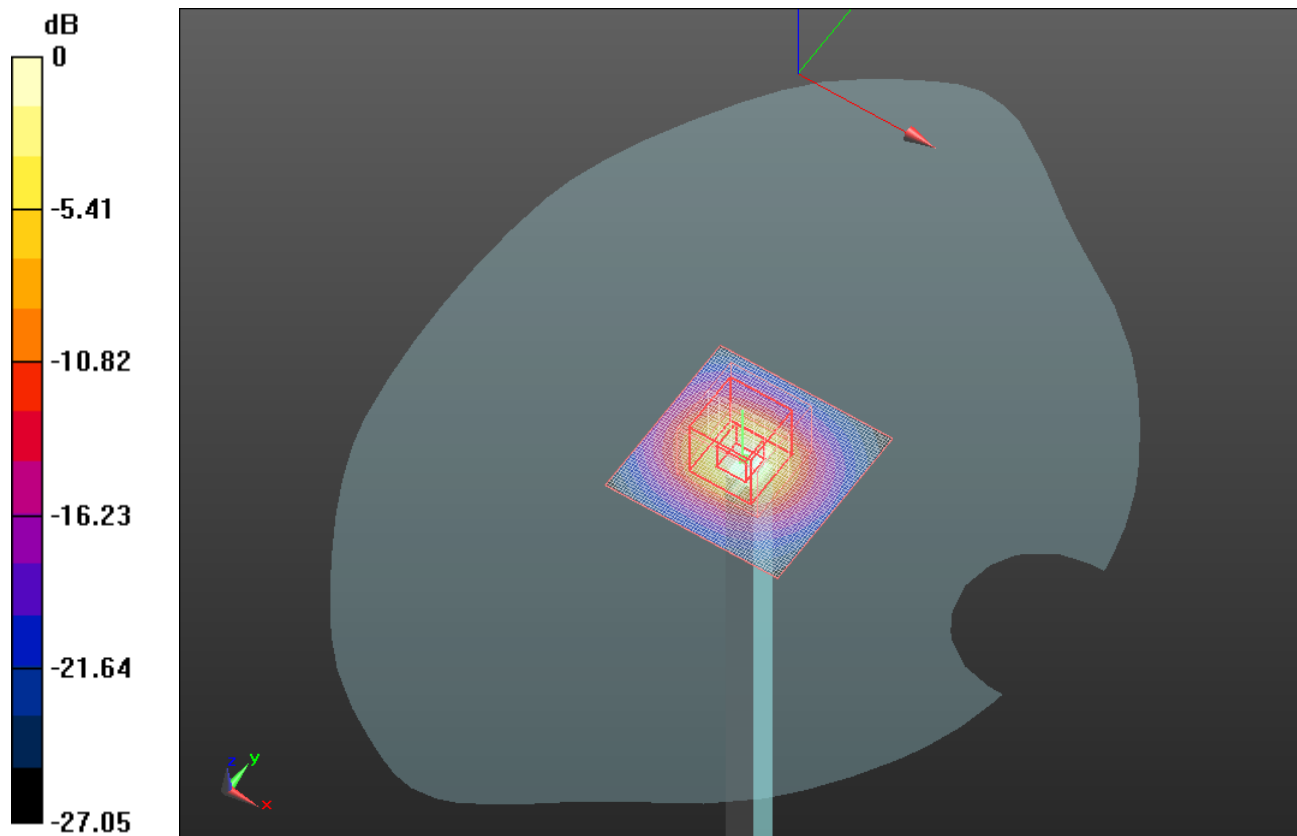
**Body/5.2 GHz, Pin=100mW/Zoom Scan (8x8x10)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 54.081 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 25.516 W/kg

**SAR(1 g) = 7.59 mW/g; SAR(10 g) = 2.18 mW/g**

Maximum value of SAR (measured) = 13.567 mW/g



0 dB = 13.570mW/g

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## SystemPerformanceCheck-D5GHzV2 SN 1075

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

**Body/5.2 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.788 mW/g

