

PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZS00157; Type: Portable Speaker; Serial: 212

Communication System: UID 0, IEEE 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$; $\sigma = 2.051 \text{ S/m}$; $\epsilon_r = 51.783$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-19-2017; Ambient Temp: 22.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7406; ConvF(7.6, 7.6, 7.6); Calibrated: 4/18/2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2017

Phantom: SAM Right; Type: QD000P40CD; Serial: TP:7535

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Body SAR,
Ch 11, 1 Mbps, Side, Chain1**

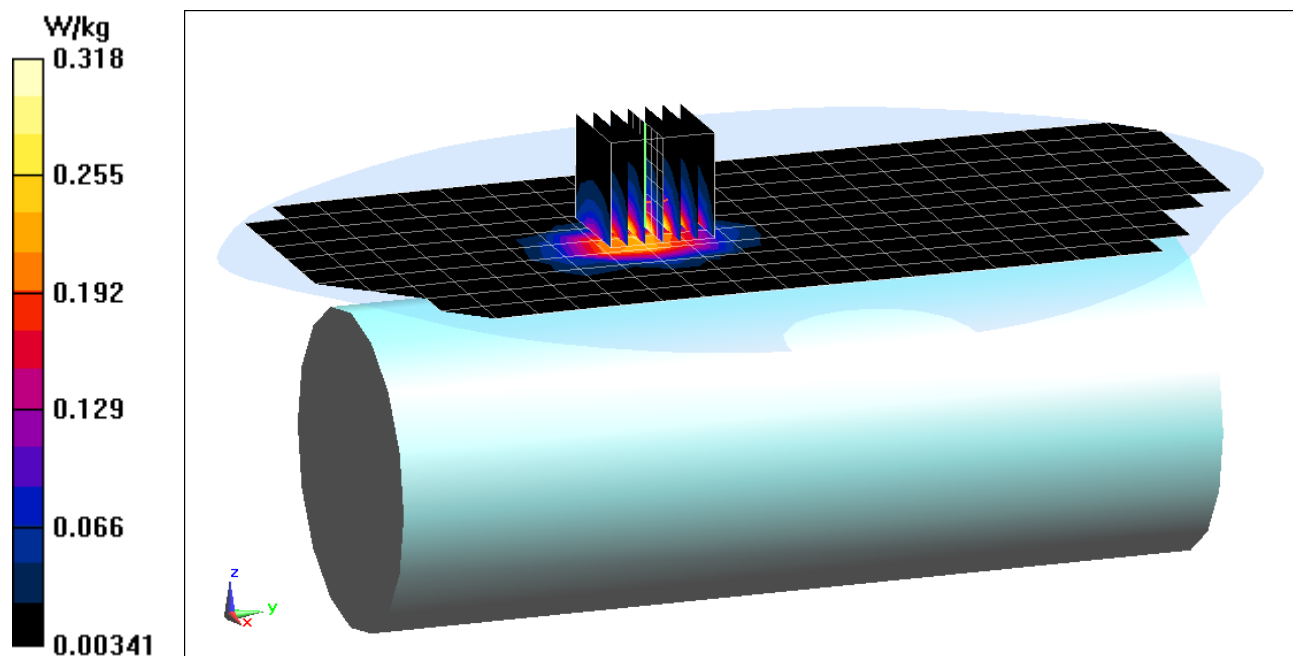
Area Scan (11x23x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Reference Value = 9.767 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.198 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZS00157; Type: Portable Speaker; Serial: 212

Communication System: UID 0, IEEE 802.11n; Frequency: 5755 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5755 \text{ MHz}$; $\sigma = 6.158 \text{ S/m}$; $\epsilon_r = 46.846$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-17-2017; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3589; ConvF(3.83, 3.83, 3.83); Calibrated: 1/13/2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 1/16/2017

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: IEEE 802.11n, UNII-3, 40 MHz Bandwidth, Body SAR,
Ch 151, 13.5 Mbps, Side, Chain1**

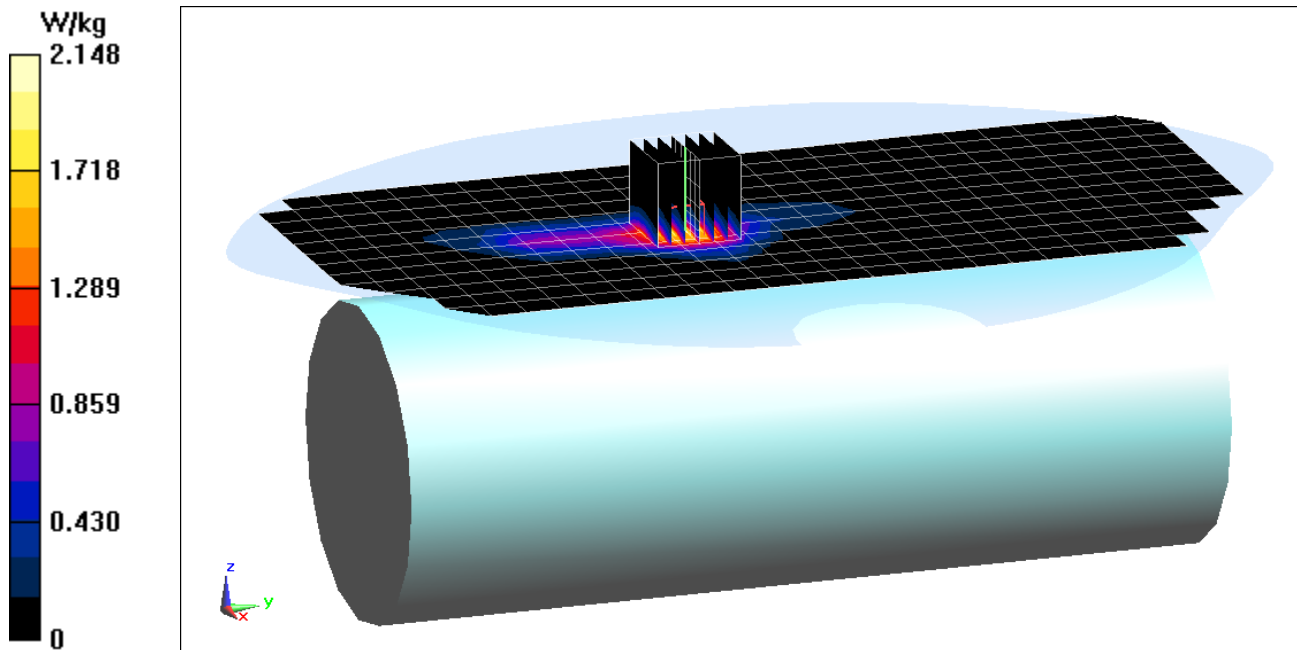
Area Scan (13x27x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 12.82 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 0.932 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZS00157; Type: Portable Speaker; Serial: 212

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.629

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 1.988 \text{ S/m}$; $\epsilon_r = 51.766$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-17-2017; Ambient Temp: 20.8°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7406; ConvF(7.6, 7.6, 7.6); Calibrated: 4/18/2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2017

Phantom: SAM Right; Type: QD000P40CD; Serial: TP:7535

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth LE, Body SAR, Ch 39, 1 Mbps, Side

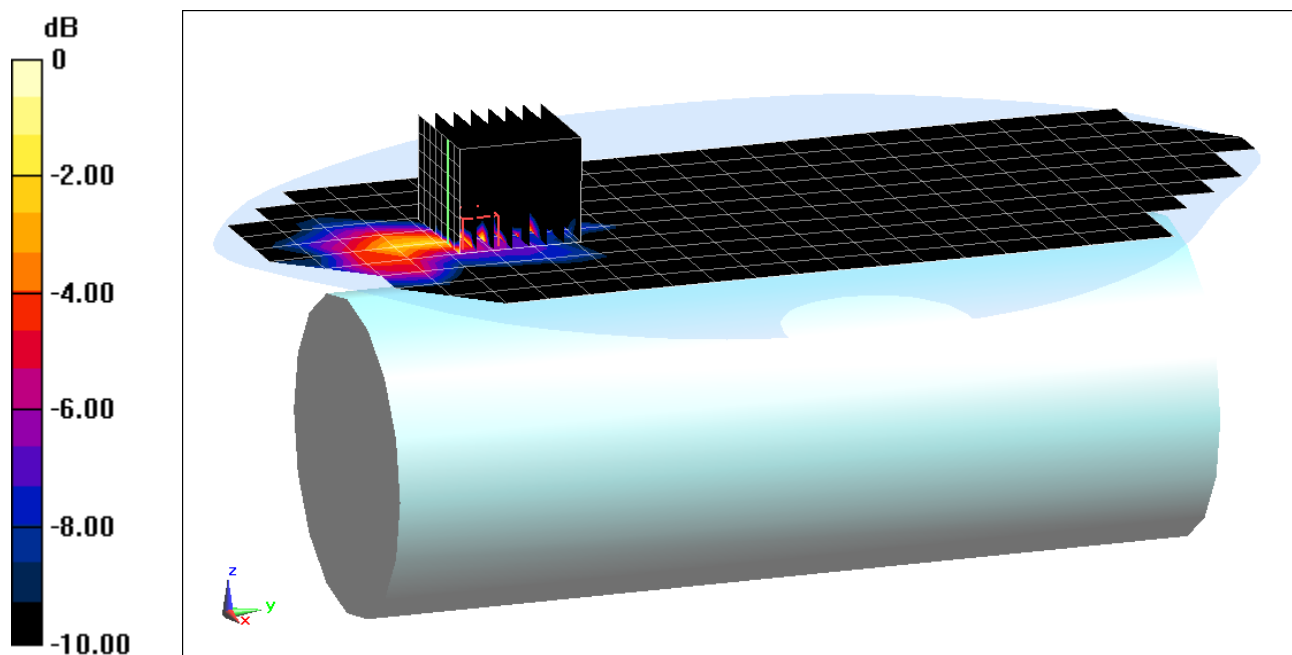
Area Scan (11x26x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.007 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0250 W/kg

SAR(1 g) = 0.00844 W/kg



0 dB = 0.0500 W/kg = -13.01 dBW/kg

PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZS00157; Type: Portable Speaker; Serial: 212

Communication System: UID 0, IEEE 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$; $\sigma = 1.962 \text{ S/m}$; $\epsilon_r = 51.842$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-17-2017; Ambient Temp: 20.8°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7406; ConvF(7.6, 7.6, 7.6); Calibrated: 4/18/2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2017

Phantom: SAM Right; Type: QD000P40CD; Serial: TP:7535

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Extremity SAR,
Ch 11, 1 Mbps, Side, Chain1**

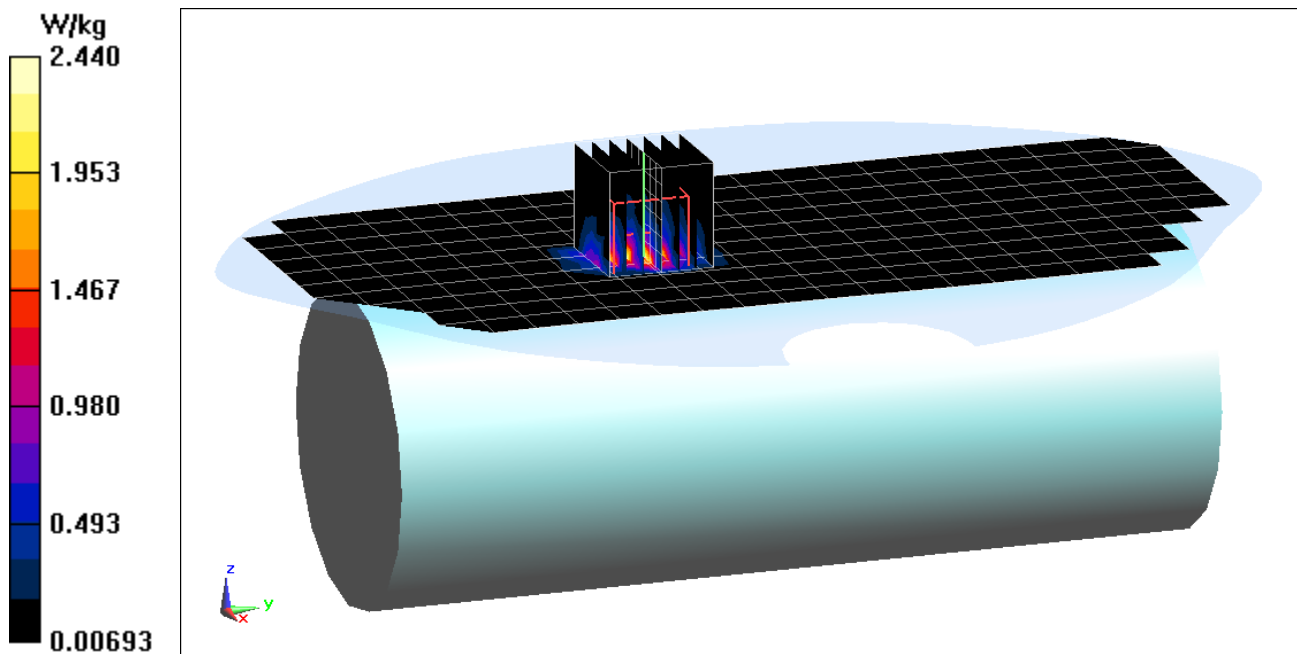
Area Scan (11x23x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

Reference Value = 24.77 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(10 g) = 0.524 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZS00157; Type: Portable Speaker; Serial: 212

Communication System: UID 0, IEEE 802.11n; Frequency: 5755 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5755 \text{ MHz}$; $\sigma = 6.158 \text{ S/m}$; $\epsilon_r = 46.846$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-17-2017; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3589; ConvF(3.83, 3.83, 3.83); Calibrated: 1/13/2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1466; Calibrated: 1/16/2017

Phantom: SAM with CRP v5.0 Front; Type: QD000P40CD; Serial: 1646

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

**Mode: IEEE 802.11n, UNII-3, 40 MHz Bandwidth, Extremity SAR,
Ch 151, 13.5 Mbps, Side, Chain0**

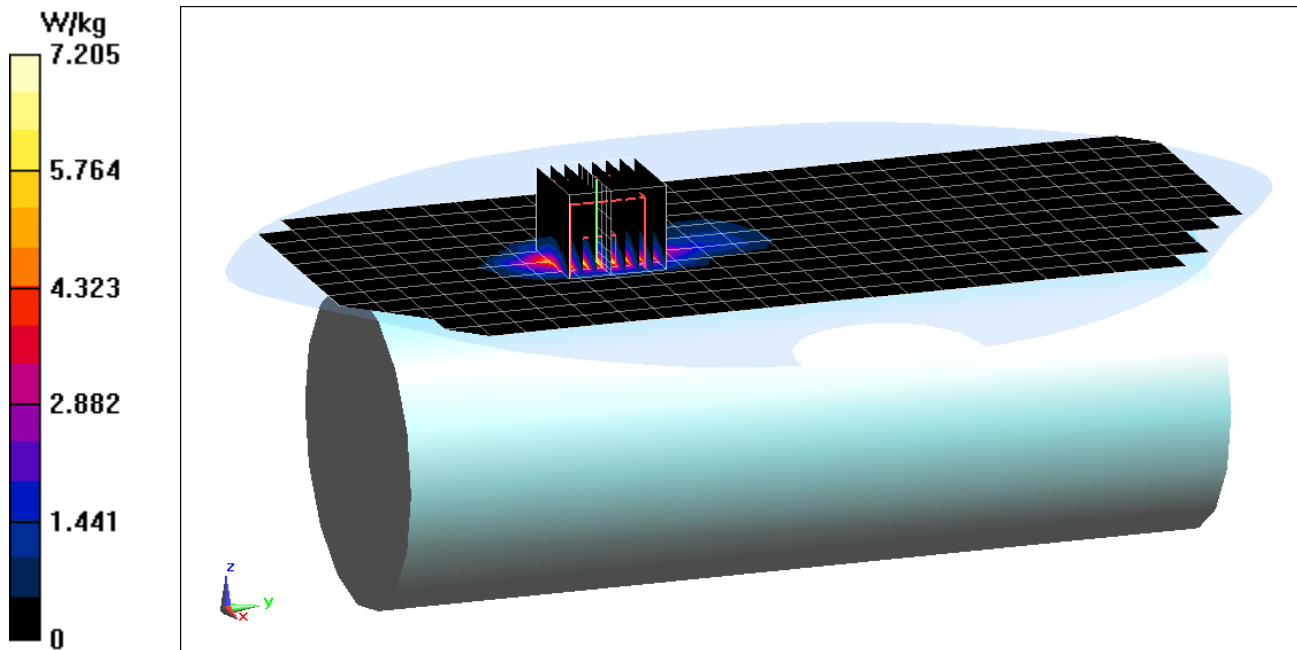
Area Scan (13x27x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

Reference Value = 23.87 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 12.0 W/kg

SAR(10 g) = 1.10 W/kg



PCTEST ENGINEERING LABORATORY, INC.

DUT: JNZS00157; Type: Portable Speaker; Serial: 212

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.629

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 1.988 \text{ S/m}$; $\epsilon_r = 51.766$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-17-2017; Ambient Temp: 20.8°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7406; ConvF(7.6, 7.6, 7.6); Calibrated: 4/18/2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/11/2017

Phantom: SAM Right; Type: QD000P40CD; Serial: TP:7535

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth LE, Extremity SAR, Ch 39, 1 Mbps, Side

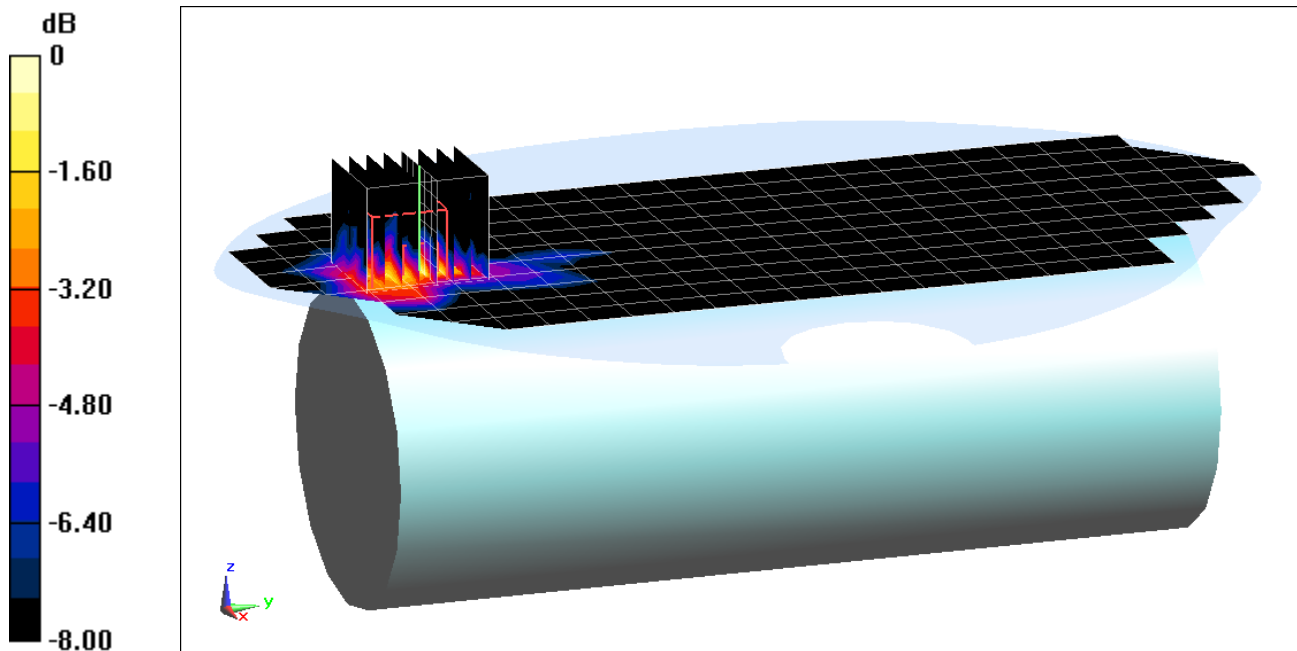
Area Scan (11x26x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.191 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.0470 W/kg

SAR(10 g) = 0.0115 W/kg



0 dB = 0.0366 W/kg = -14.37 dBW/kg