

**Test Plot 1#: PTT\_FM 12.5kHz\_Face Up\_400.0125 MHz****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 18040400321**

Communication System: FM; Frequency: 400.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 400.012$  MHz;  $\sigma = 0.855$  S/m;  $\epsilon_r = 45.79$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(10.97, 10.97, 10.97); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 6.18 W/kg

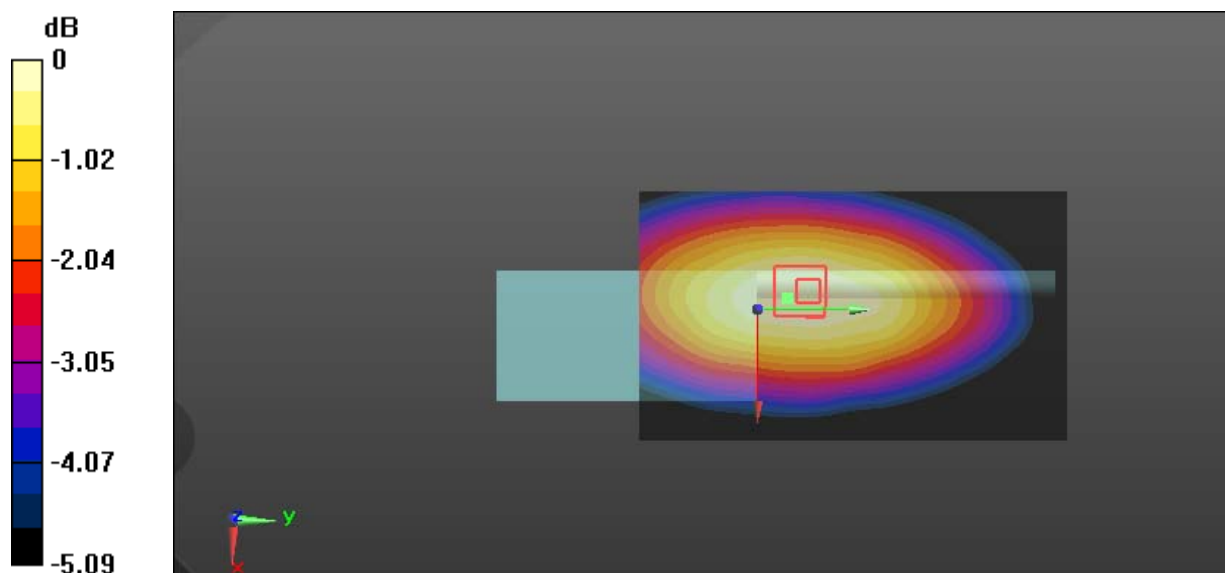
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 73.50 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 6.89 W/kg

**SAR(1 g) = 4.98 W/kg; SAR(10 g) = 4.08 W/kg**

Maximum value of SAR (measured) = 6.08 W/kg



0 dB = 6.08 W/kg = 7.84 dBW/kg

**Test Plot 2#: PTT\_FM 12.5kHz\_Body Back\_400.0125 MHz****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 18040400321**

Communication System: FM; Frequency: 400.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 400.012$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 59.009$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(12.08, 12.08, 12.08); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.4 W/kg

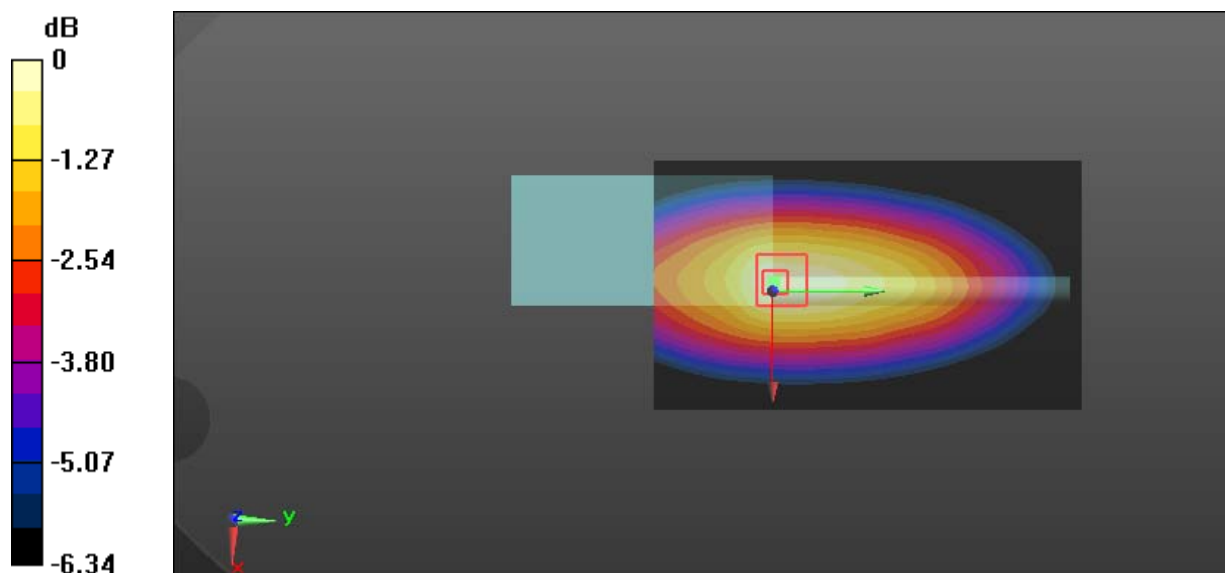
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 104.4 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 14.2 W/kg

**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 7.77 W/kg**

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



0 dB = 12.7 W/kg = 11.04 dBW/kg

**Test Plot 3#: PTT\_FM 12.5kHz\_Body Back\_417 MHz****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 18040400321**

Communication System: FM; Frequency: 417 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 417$  MHz;  $\sigma = 0.903$  S/m;  $\epsilon_r = 58.875$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(12.08, 12.08, 12.08); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 12.4 W/kg

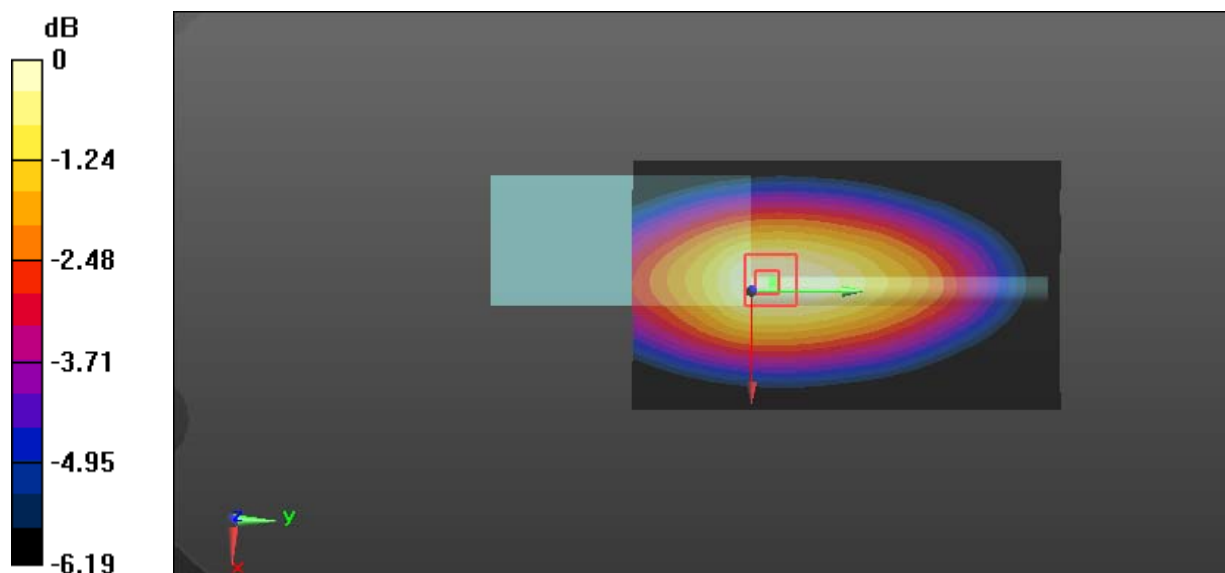
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 103.4 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 14.4 W/kg

**SAR(1 g) = 10.1 W/kg; SAR(10 g) = 8.06 W/kg**

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

**Test Plot 4#: PTT\_FM 12.5kHz\_Body Back\_435 MHz****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 18040400321**

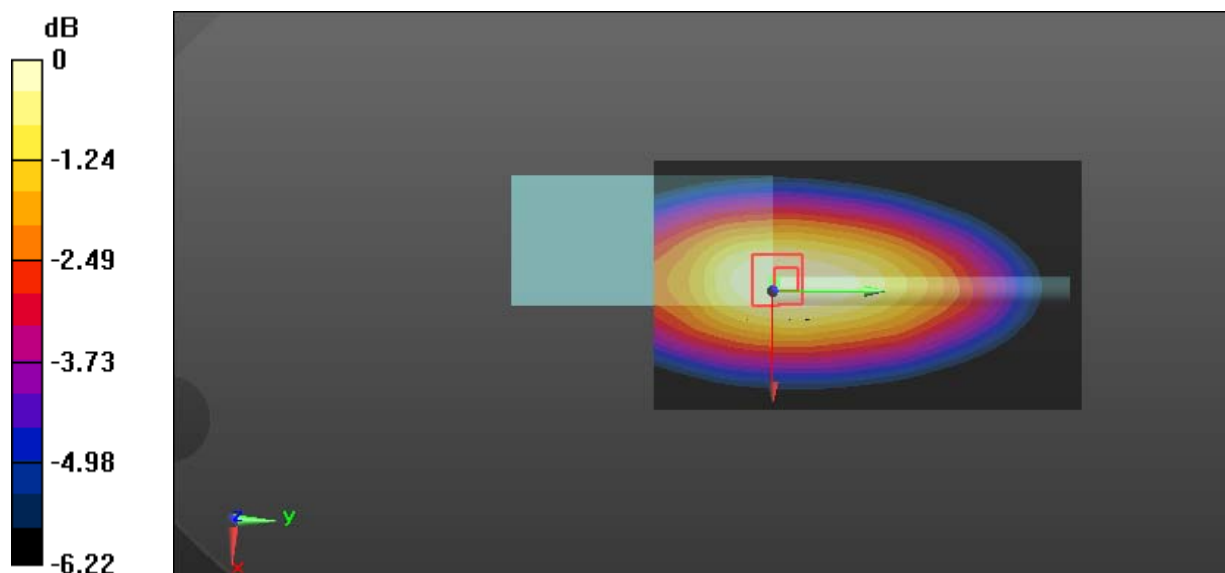
Communication System: FM; Frequency: 435 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 435 \text{ MHz}$ ;  $\sigma = 0.912 \text{ S/m}$ ;  $\epsilon_r = 58.436$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(12.08, 12.08, 12.08); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $11.1 \text{ W/kg}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $101.5 \text{ V/m}$ ; Power Drift =  $-0.18 \text{ dB}$ Peak SAR (extrapolated) =  $12.2 \text{ W/kg}$ **SAR(1 g) =  $8.85 \text{ W/kg}$ ; SAR(10 g) =  $6.98 \text{ W/kg}$** Maximum value of SAR (measured) =  $10.9 \text{ W/kg}$  $0 \text{ dB} = 10.9 \text{ W/kg} = 10.37 \text{ dBW/kg}$

**Test Plot 5#: PTT\_FM 12.5kHz\_Body Back\_452 MHz****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 18040400321**

Communication System: FM; Frequency: 452 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 452$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 58.005$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(12.08, 12.08, 12.08); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 10.7 W/kg

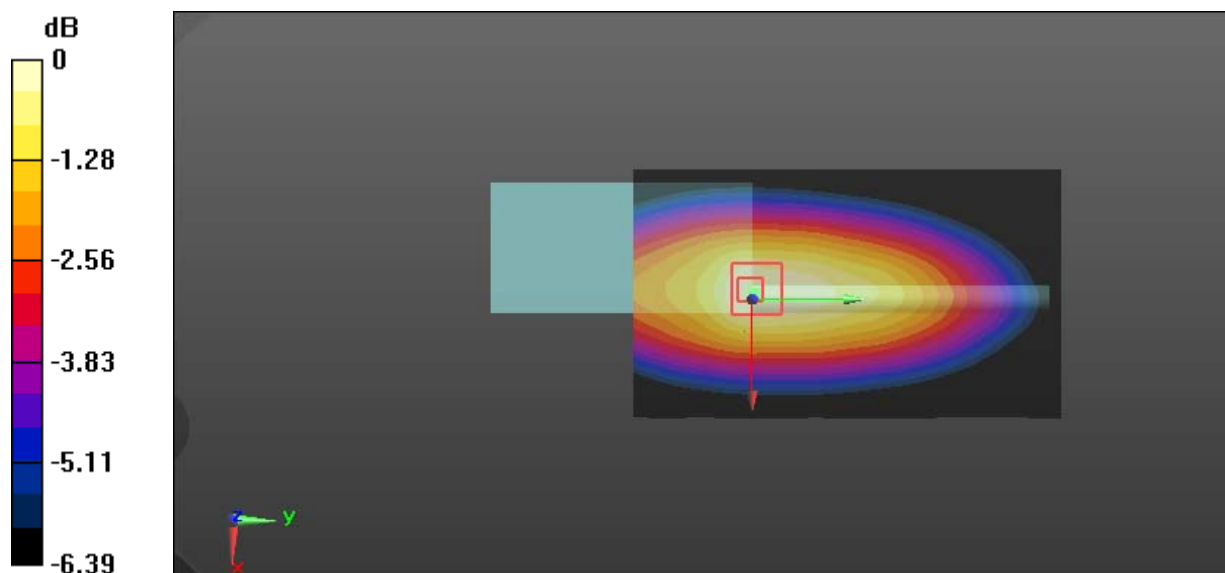
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 98.32 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 12.0 W/kg

**SAR(1 g) = 8.33 W/kg; SAR(10 g) = 6.31 W/kg**

Maximum value of SAR (measured) = 10.5 W/kg



0 dB = 10.5 W/kg = 10.21 dBW/kg

**Test Plot 6#: PTT\_FM 12.5kHz\_Body Back\_469.9875 MHz****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 18040400321**

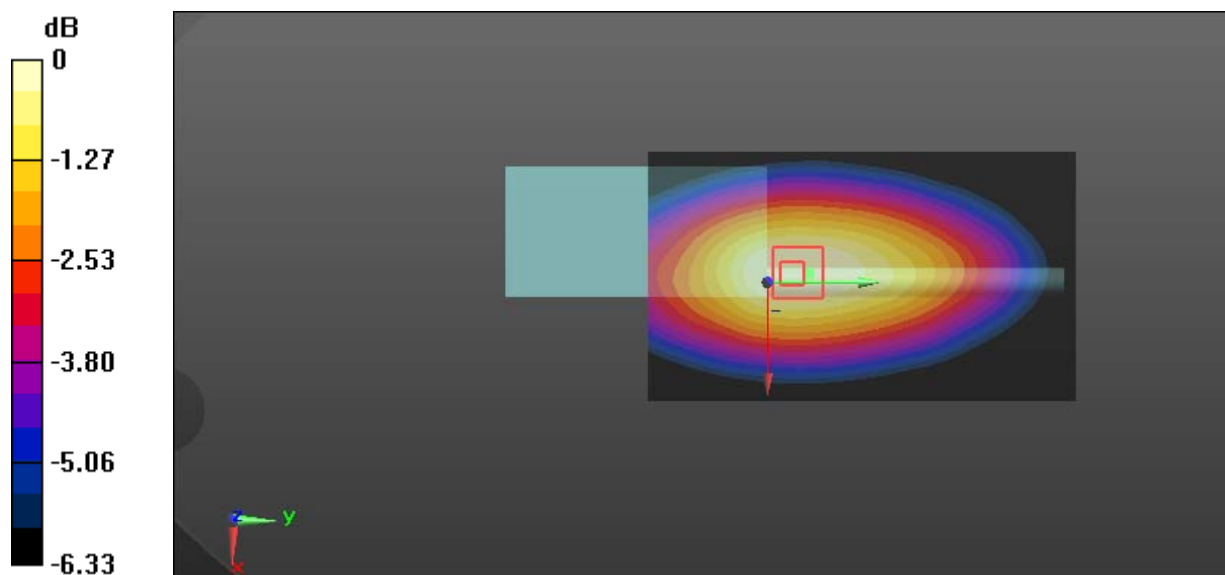
Communication System: FM; Frequency: 469.988 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 469.988 \text{ MHz}$ ;  $\sigma = 0.925 \text{ S/m}$ ;  $\epsilon_r = 57.663$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(12.08, 12.08, 12.08); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) =  $9.47 \text{ W/kg}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $90.32 \text{ V/m}$ ; Power Drift =  $-0.18 \text{ dB}$ Peak SAR (extrapolated) =  $10.5 \text{ W/kg}$ **SAR(1 g) =  $7.64 \text{ W/kg}$ ; SAR(10 g) =  $6.04 \text{ W/kg}$** Maximum value of SAR (measured) =  $9.34 \text{ W/kg}$  $0 \text{ dB} = 9.34 \text{ W/kg} = 9.70 \text{ dBW/kg}$

**Test Plot 7#:Procedure Name: 400.012 -4FSK****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 17112300721**

Communication System: 4FSK; Frequency: 400.012 MHz;Duty Cycle: 1:2

Medium parameters used:  $f = 400.012$  MHz;  $\sigma = 0.881$  S/m;  $\epsilon_r = 44.171$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(10.97, 10.97, 10.97); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.11 W/kg

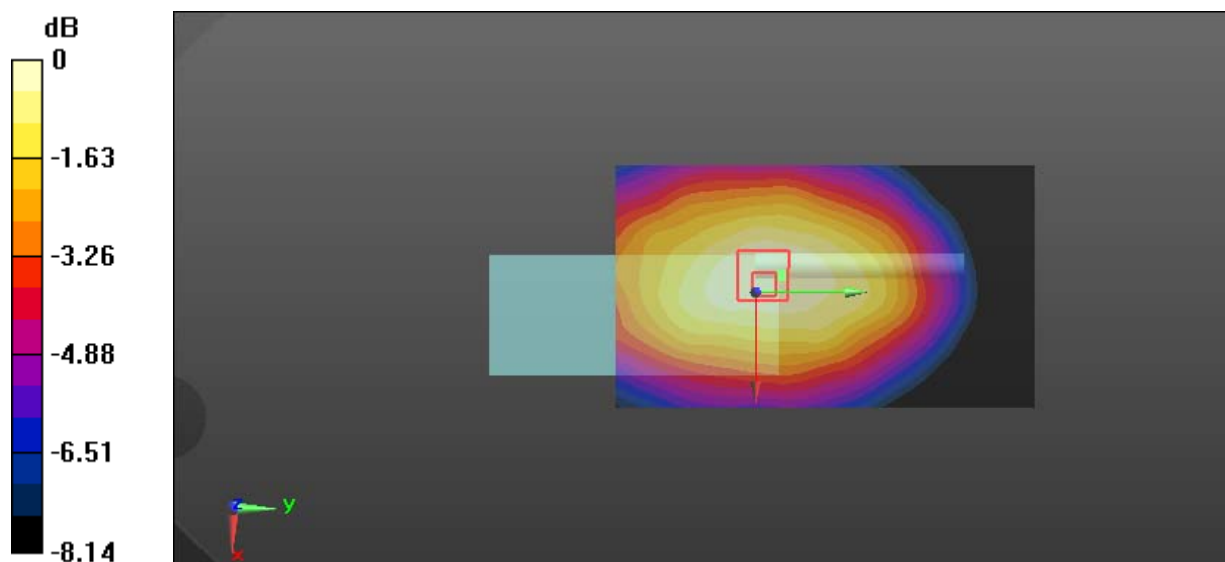
**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 66.72 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 5.66 W/kg

**SAR(1 g) = 3.84 W/kg; SAR(10 g) = 2.88 W/kg**

Maximum value of SAR (measured) = 4.87 W/kg



0 dB = 4.87 W/kg = 6.88 dBW/kg

**Test Plot 8#:Procedure Name: 400.012MHz-4FSK****DUT: DMR Handheld Two Way Radio; Type: HYDX-D25; Serial: 17112300721**

Communication System: 4FSK; Frequency: 400.012 MHz;Duty Cycle: 1:2

Medium parameters used:  $f = 400.012$  MHz;  $\sigma = 0.942$  S/m;  $\epsilon_r = 57.71$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7441; ConvF(12.08, 12.08, 12.08); Calibrated: 2017/11/23;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1459; Calibrated: 2017/9/15
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.8 (8);

**Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.81 W/kg

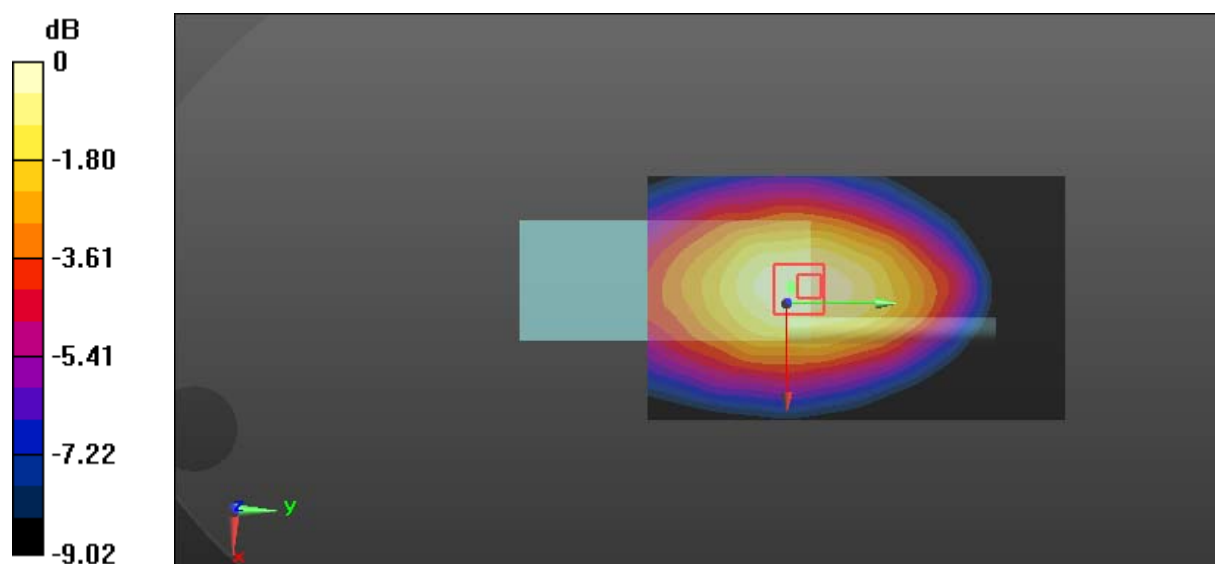
**/Zoom Scan (6x7x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 79.61 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 9.18 W/kg

**SAR(1 g) = 6.03 W/kg; SAR(10 g) = 4.39 W/kg**

Maximum value of SAR (measured) = 7.86 W/kg



0 dB = 7.86 W/kg = 8.95 dBW/kg