

Test Plot 1#: FM_12.5kHz_400.0125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 400.012$ MHz; $\sigma = 0.865$ S/m; $\epsilon_r = 44.718$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 400.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.35 W/kg

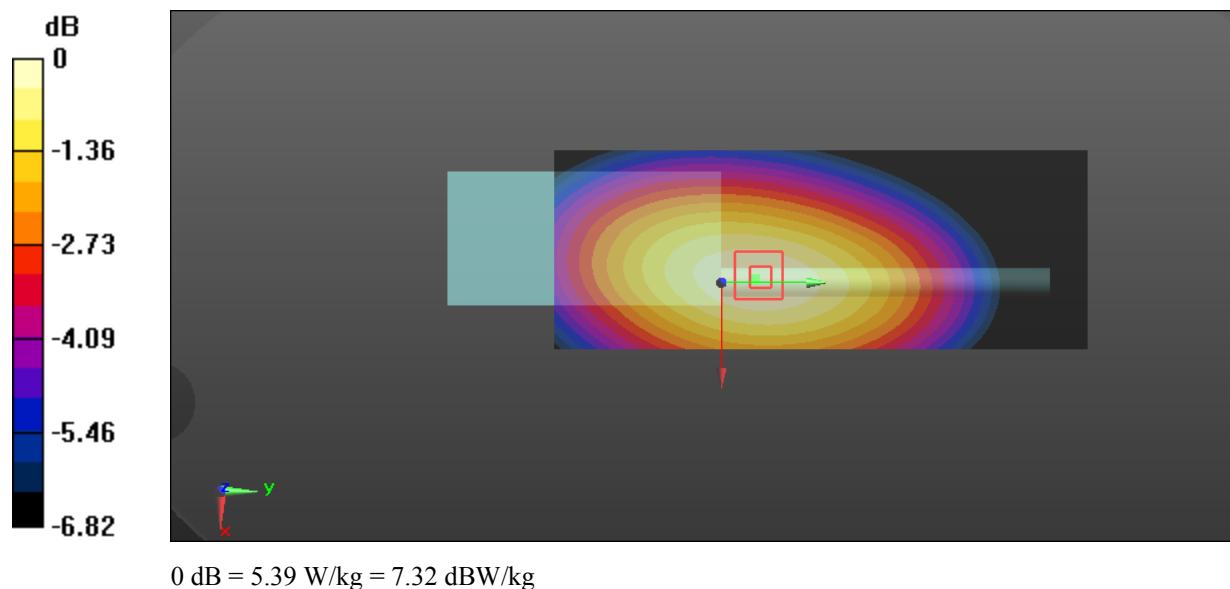
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 79.01 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 5.16 W/kg; SAR(10 g) = 3.96 W/kg

Maximum value of SAR (measured) = 5.39 W/kg



Test Plot 2#: FM_12.5kHz_417.5125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 417.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 417.512$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 44.513$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.32 W/kg

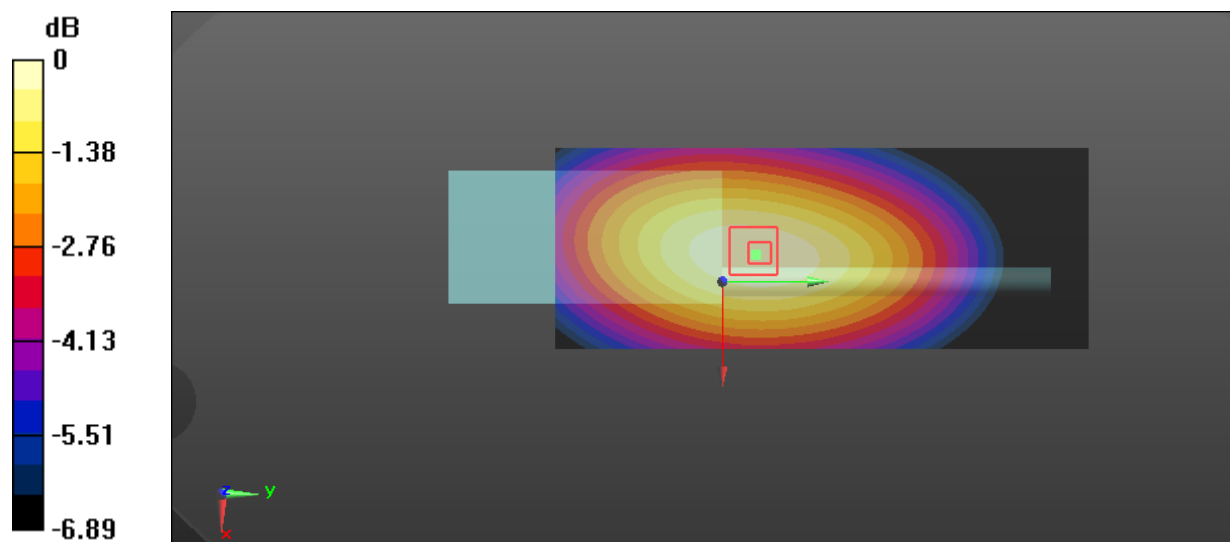
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.60 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 9.06 W/kg

SAR(1 g) = 7.07 W/kg; SAR(10 g) = 5.42 W/kg

Maximum value of SAR (measured) = 7.39 W/kg



0 dB = 7.39 W/kg = 8.69 dBW/kg

Test Plot 3#: FM_12.5kHz_435.0125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 435.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 435.012$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 44.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.69 W/kg

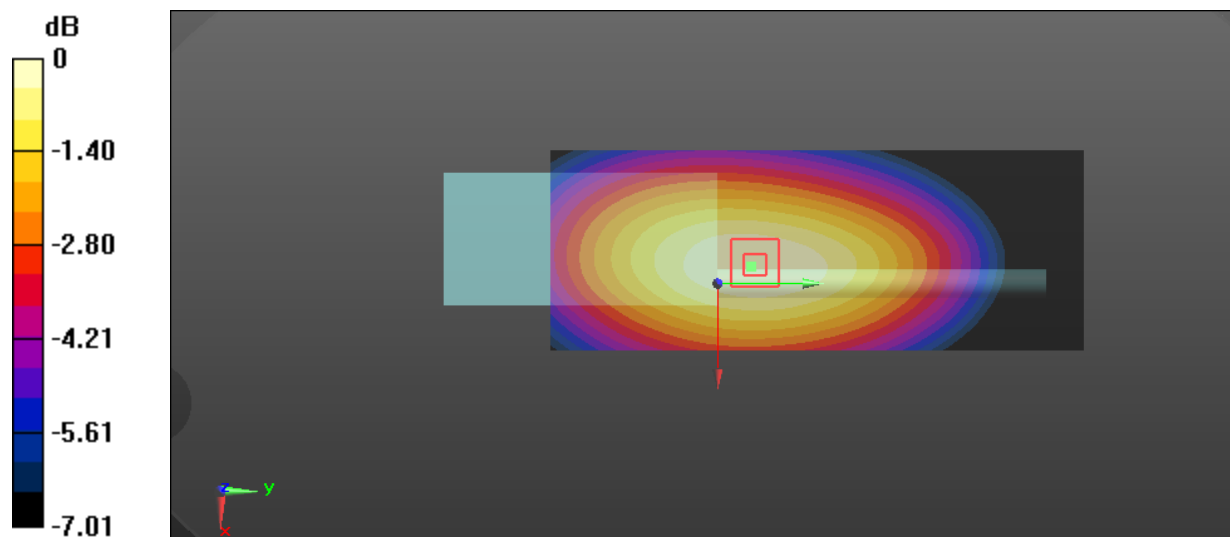
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 86.39 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 8.21 W/kg

SAR(1 g) = 6.36 W/kg; SAR(10 g) = 4.85 W/kg

Maximum value of SAR (measured) = 6.66 W/kg



0 dB = 6.66 W/kg = 8.23 dBW/kg

Test Plot 4#: FM_12.5kHz_452.4875 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 452.488 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 452.488$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 43.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 452.488 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.47 W/kg

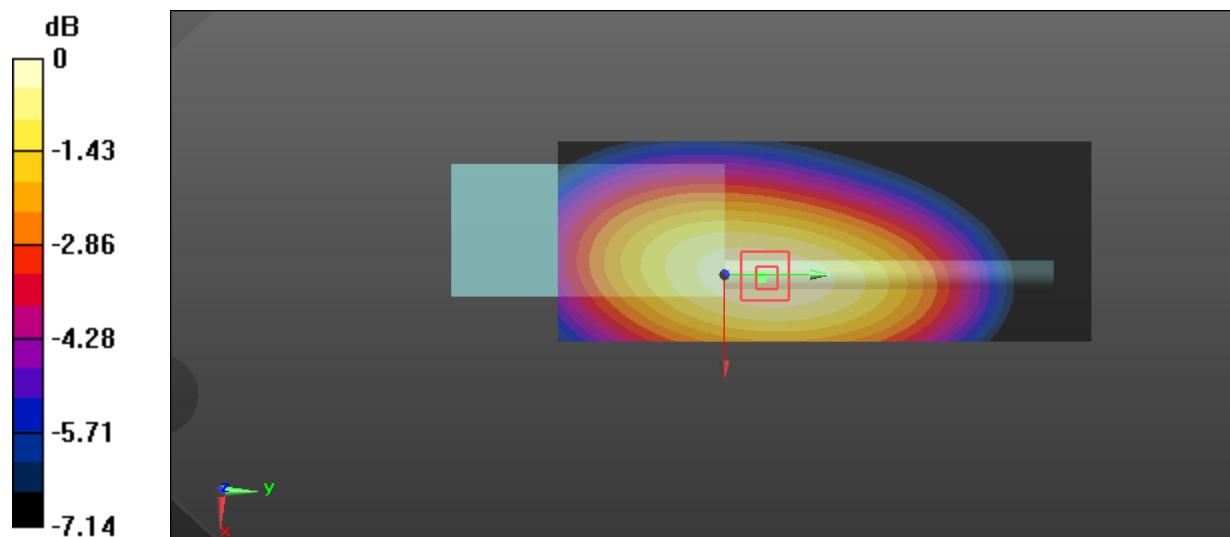
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 70.69 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 5.60 W/kg

SAR(1 g) = 4.29 W/kg; SAR(10 g) = 3.24 W/kg

Maximum value of SAR (measured) = 4.50 W/kg



0 dB = 4.50 W/kg = 6.53 dBW/kg

Test Plot 5#: FM_12.5kHz_469.9875 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 469.988$ MHz; $\sigma = 0.885$ S/m; $\epsilon_r = 43.637$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 469.988 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.29 W/kg

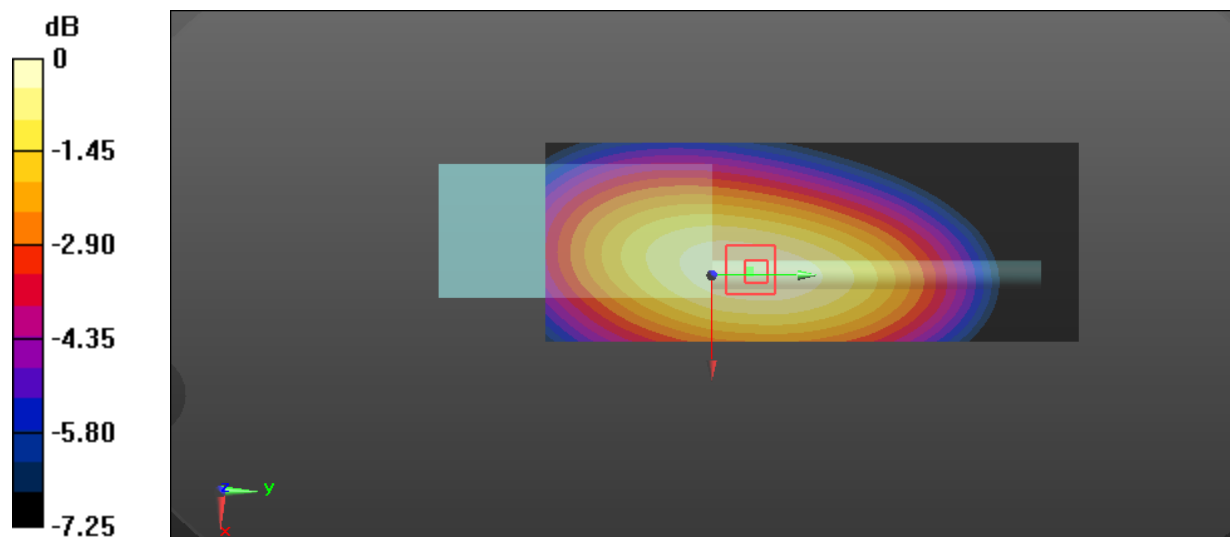
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 69.78 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.41 W/kg

SAR(1 g) = 4.14 W/kg; SAR(10 g) = 3.12 W/kg

Maximum value of SAR (measured) = 4.34 W/kg



0 dB = 4.34 W/kg = 6.37 dBW/kg

Test Plot 6#: FM_25kHz_400.0125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 400.012$ MHz; $\sigma = 0.865$ S/m; $\epsilon_r = 44.718$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 400.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.00 W/kg

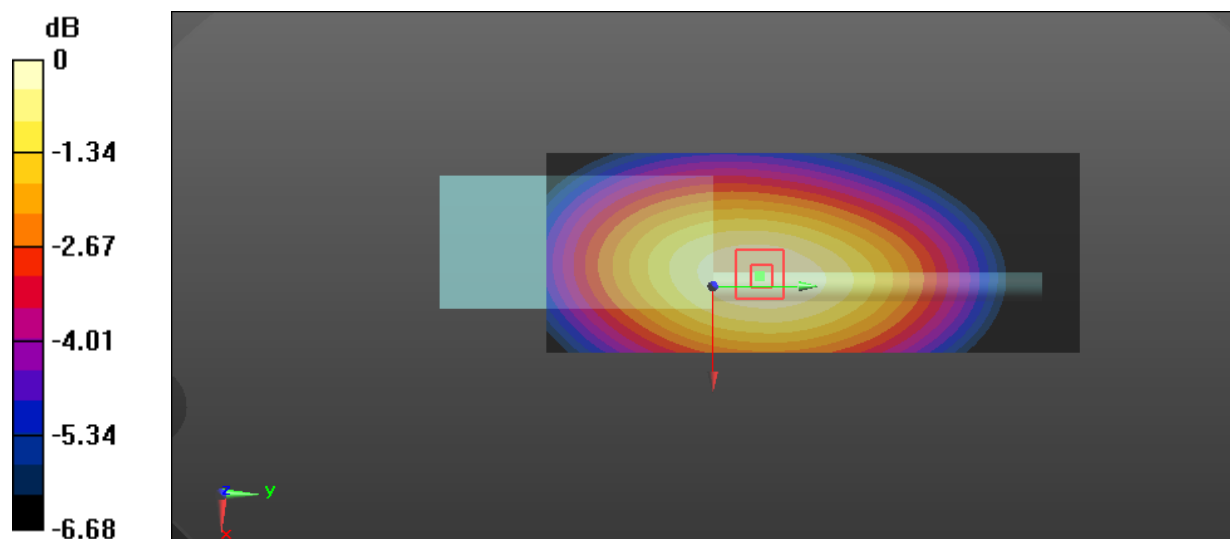
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 75.80 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 6.07 W/kg

SAR(1 g) = 4.79 W/kg; SAR(10 g) = 3.7 W/kg

Maximum value of SAR (measured) = 5.00 W/kg



0 dB = 5.00 W/kg = 6.99 dBW/kg

Test Plot 7#: FM_25kHz_417.5125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

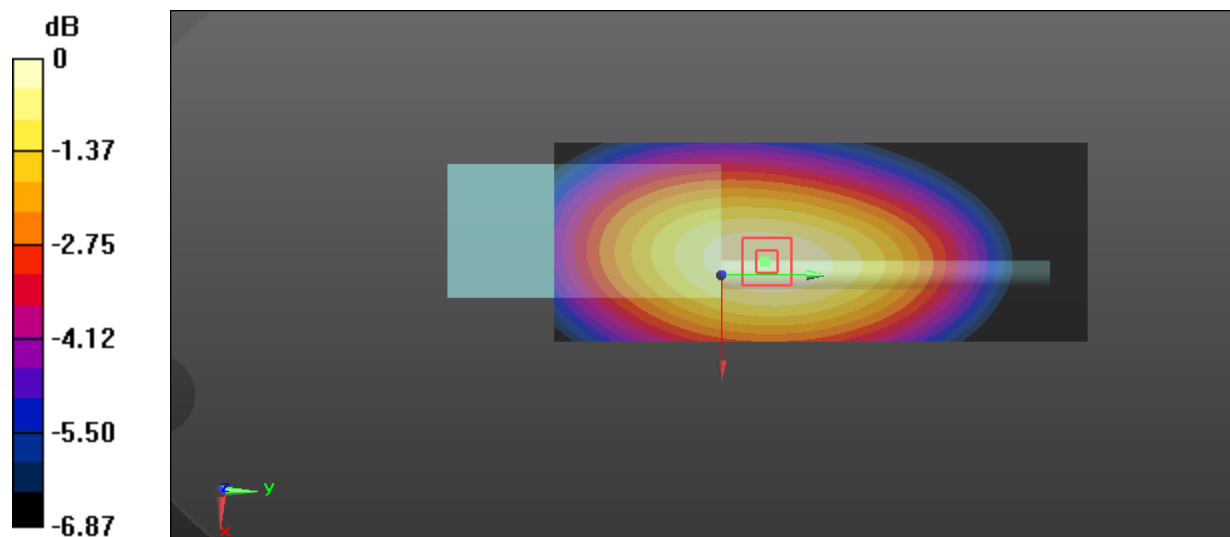
Communication System: FM; Frequency: 417.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 417.512 \text{ MHz}$; $\sigma = 0.874 \text{ S/m}$; $\epsilon_r = 44.513$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 7.65 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 92.52 V/m ; Power Drift = -0.08 dB Peak SAR (extrapolated) = 9.36 W/kg **SAR(1 g) = 7.32 W/kg ; SAR(10 g) = 5.6 W/kg** Maximum value of SAR (measured) = 7.66 W/kg 0 dB = 7.66 W/kg = 8.84 dBW/kg

Test Plot 8#: FM_25kHz_435.0125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 435.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 435.012$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 44.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.04 W/kg

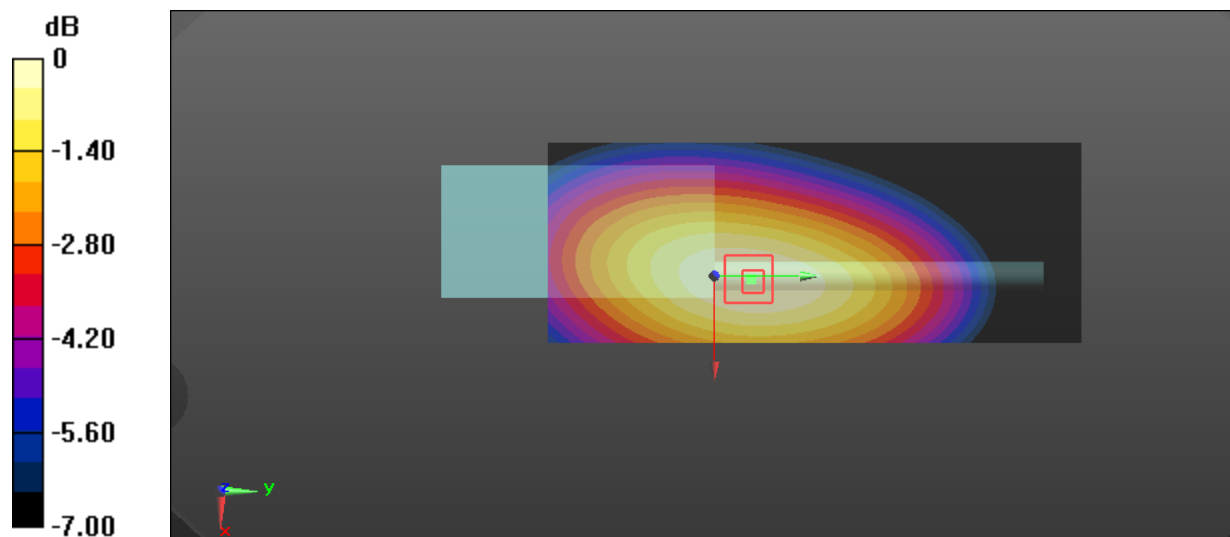
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.74 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 8.54 W/kg

SAR(1 g) = 6.63 W/kg; SAR(10 g) = 4.89 W/kg

Maximum value of SAR (measured) = 6.94 W/kg



0 dB = 6.94 W/kg = 8.41 dBW/kg

Test Plot 9#: FM_25kHz_452.4875 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 452.488 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 452.488$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 43.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 452.488 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.67 W/kg

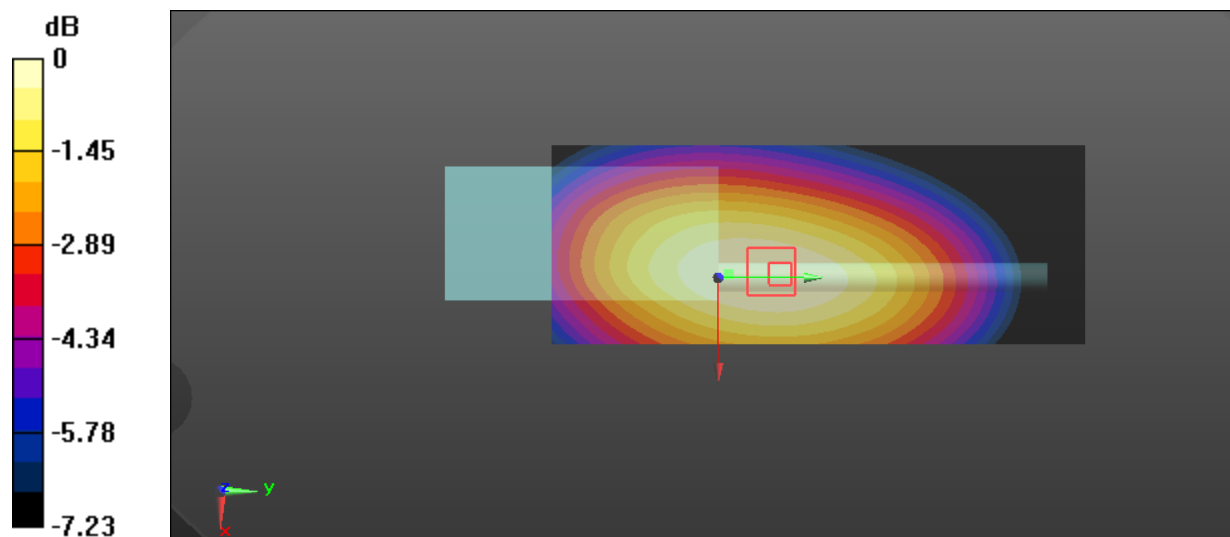
Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 75.18 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 5.56 W/kg

SAR(1 g) = 4.26 W/kg; SAR(10 g) = 3.22 W/kg

Maximum value of SAR (measured) = 4.49 W/kg



0 dB = 4.49 W/kg = 6.52 dBW/kg

Test Plot 10#: FM_25kHz_469.9875MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

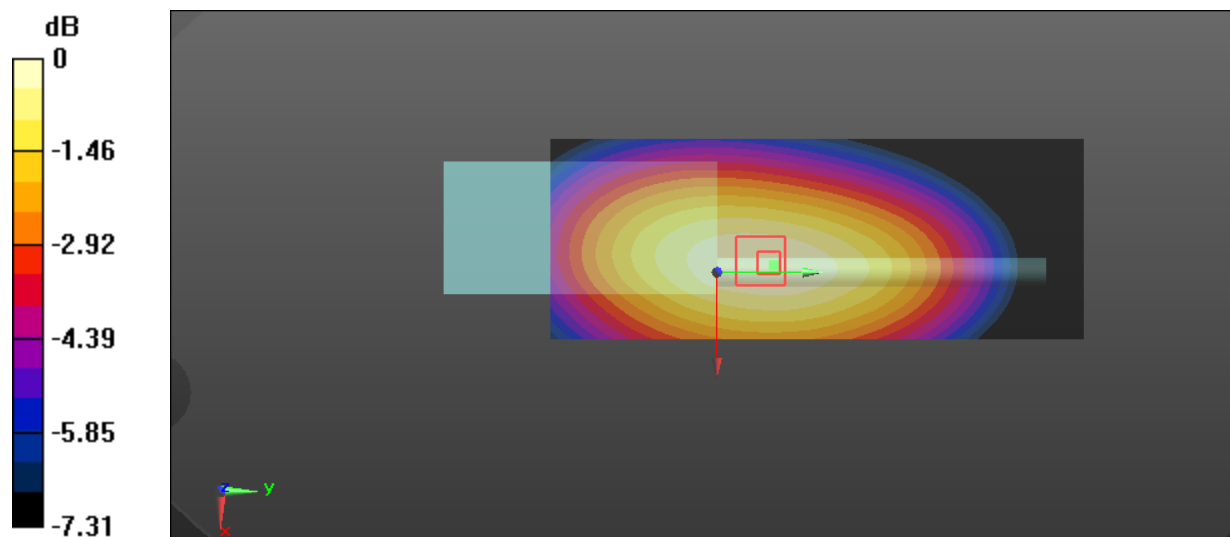
Communication System: FM; Frequency: 469.988 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 469.988 \text{ MHz}$; $\sigma = 0.885 \text{ S/m}$; $\epsilon_r = 43.637$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 469.988 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 4.08 W/kg **Zoom Scan (6x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 69.25 V/m ; Power Drift = -0.08 dB Peak SAR (extrapolated) = 5.09 W/kg **SAR(1 g) = 3.89 W/kg ; SAR(10 g) = 2.96 W/kg** Maximum value of SAR (measured) = 4.09 W/kg 0 dB = 4.09 W/kg = 6.12 dBW/kg

Test Plot 11#: 4FSK_12.5kHz_417.5125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: 4FSK; Frequency: 417.512 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 417.512$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 44.513$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.03 W/kg

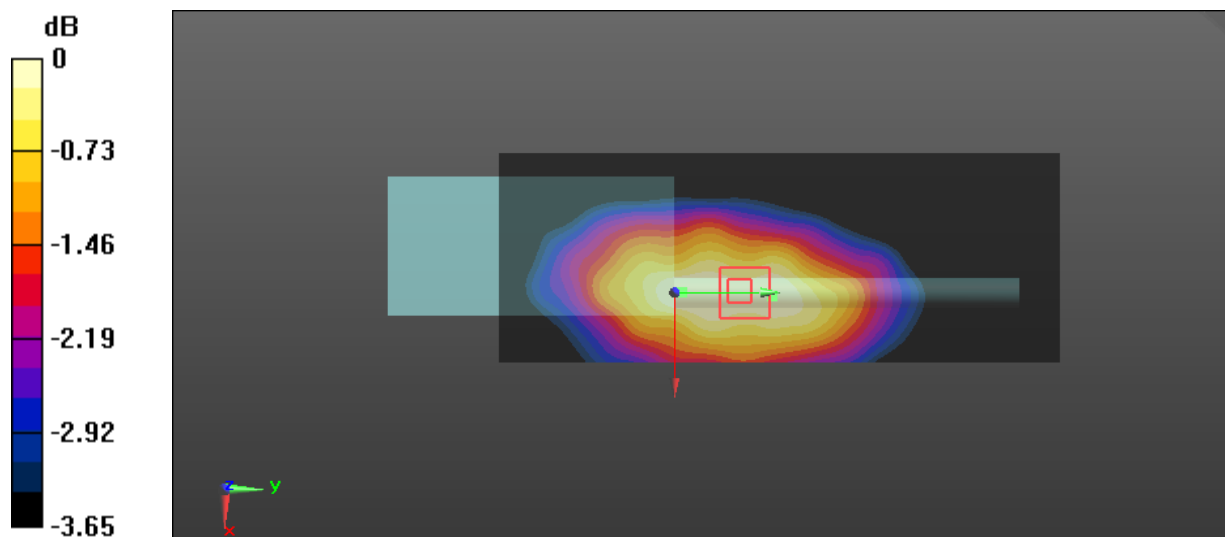
Zoom Scan (5x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 67.49 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.88 W/kg

SAR(1 g) = 3.72 W/kg; SAR(10 g) = 2.85 W/kg

Maximum value of SAR (measured) = 3.96 W/kg



0 dB = 3.96 W/kg = 5.98 dBW/kg

Test Plot 12#: FM_12.5kHz_400.0125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 400.012$ MHz; $\sigma = 0.865$ S/m; $\epsilon_r = 44.718$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 400.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.39 W/kg

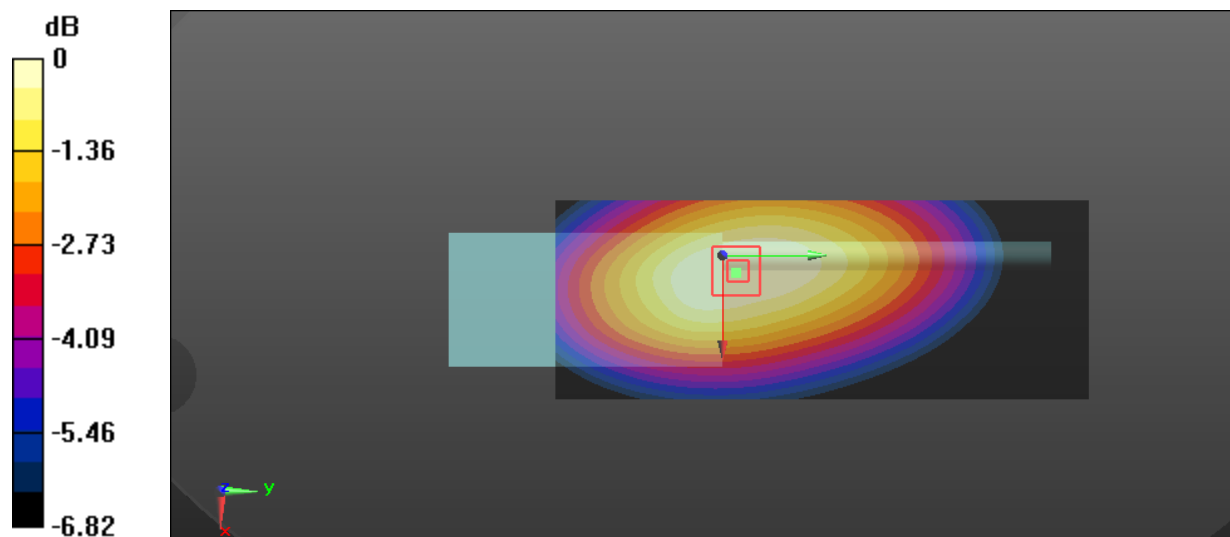
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.09 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 8.76 W/kg

SAR(1 g) = 6.78 W/kg; SAR(10 g) = 5.19 W/kg

Maximum value of SAR (measured) = 7.11 W/kg



0 dB = 7.11 W/kg = 8.52 dBW/kg

Test Plot 13#: FM_12.5kHz_417.5125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 417.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 417.512$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 44.513$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 8.62 W/kg

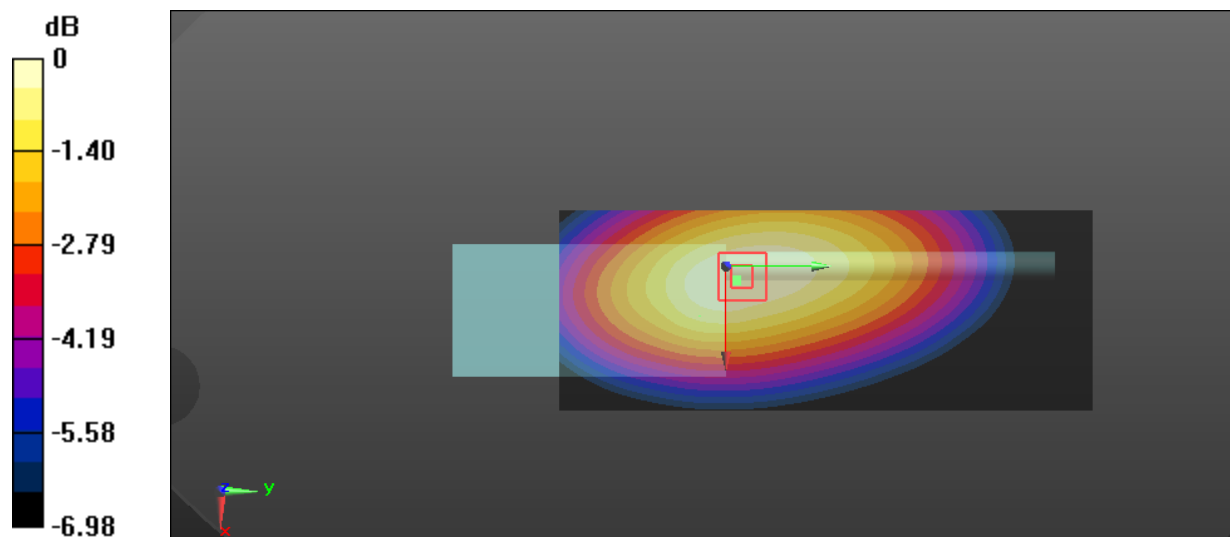
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 103.1 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 6.24 W/kg

Maximum value of SAR (measured) = 8.56 W/kg



0 dB = 8.56 W/kg = 9.32 dBW/kg

Test Plot 14#: FM_12.5kHz_435.0125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 435.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 435.012$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 44.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.10 W/kg

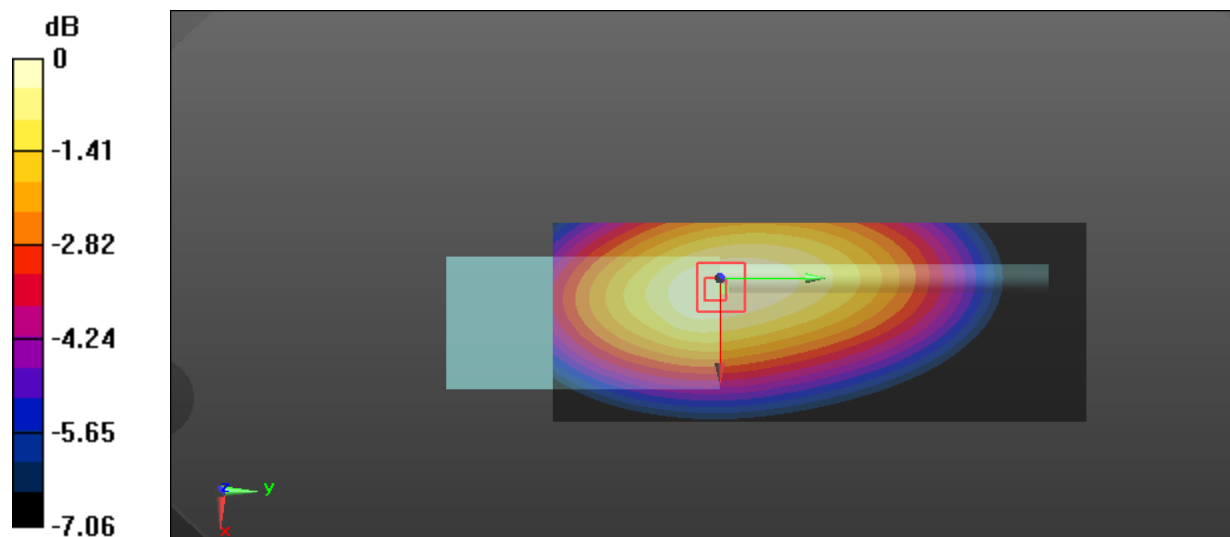
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.02 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 8.80 W/kg

SAR(1 g) = 6.81 W/kg; SAR(10 g) = 5.16 W/kg

Maximum value of SAR (measured) = 7.12 W/kg



0 dB = 7.12 W/kg = 8.52 dBW/kg

Test Plot 15#: FM_12.5kHz_452.4875 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 452.488 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 452.488$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 43.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 452.488 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.85 W/kg

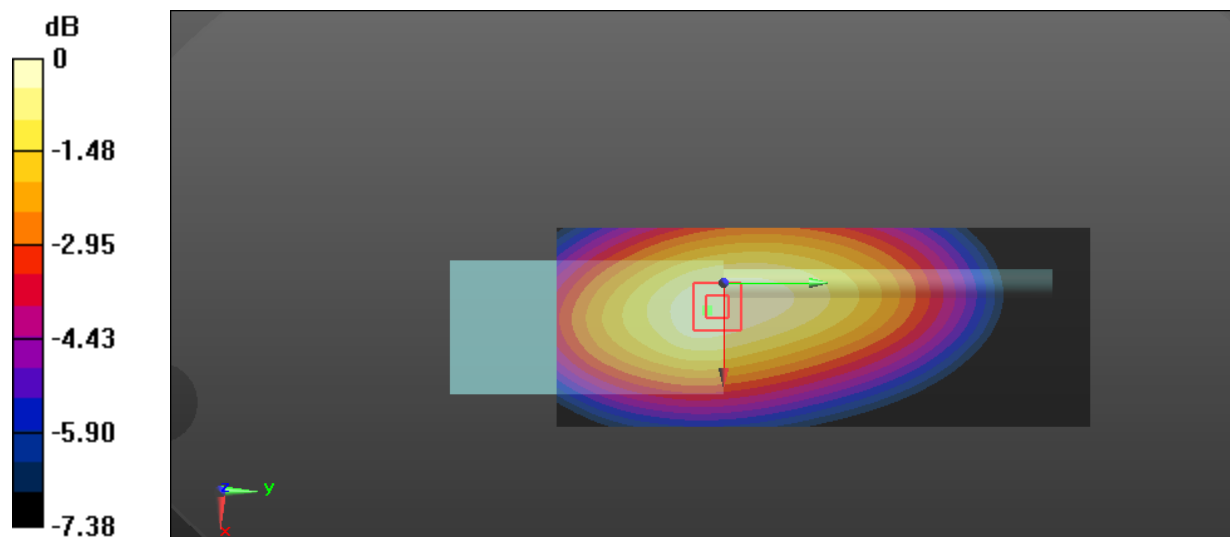
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 72.75 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 6.09 W/kg

SAR(1 g) = 4.69 W/kg; SAR(10 g) = 3.53 W/kg

Maximum value of SAR (measured) = 4.91 W/kg



0 dB = 4.91 W/kg = 6.91 dBW/kg

Test Plot 16#: FM_12.5kHz_469.9875 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 469.988$ MHz; $\sigma = 0.885$ S/m; $\epsilon_r = 43.637$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 469.988 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.84 W/kg

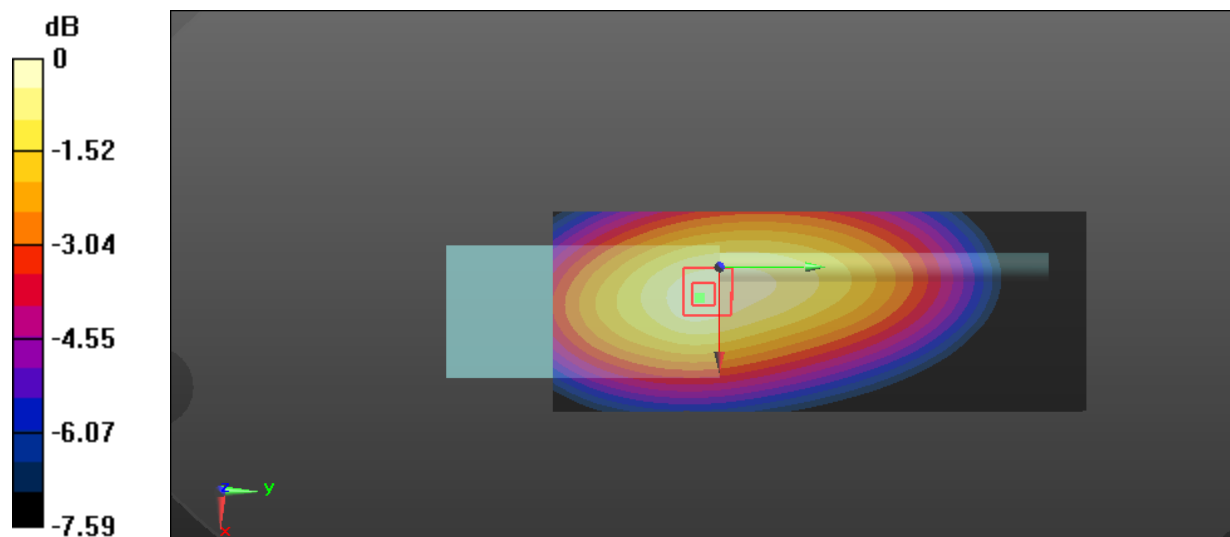
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 71.99 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 6.21 W/kg

SAR(1 g) = 4.73 W/kg; SAR(10 g) = 3.53 W/kg

Maximum value of SAR (measured) = 4.99 W/kg



0 dB = 4.99 W/kg = 6.98 dBW/kg

Test Plot 17#: FM_25kHz_400.0125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 400.012$ MHz; $\sigma = 0.865$ S/m; $\epsilon_r = 44.718$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 400.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.98 W/kg

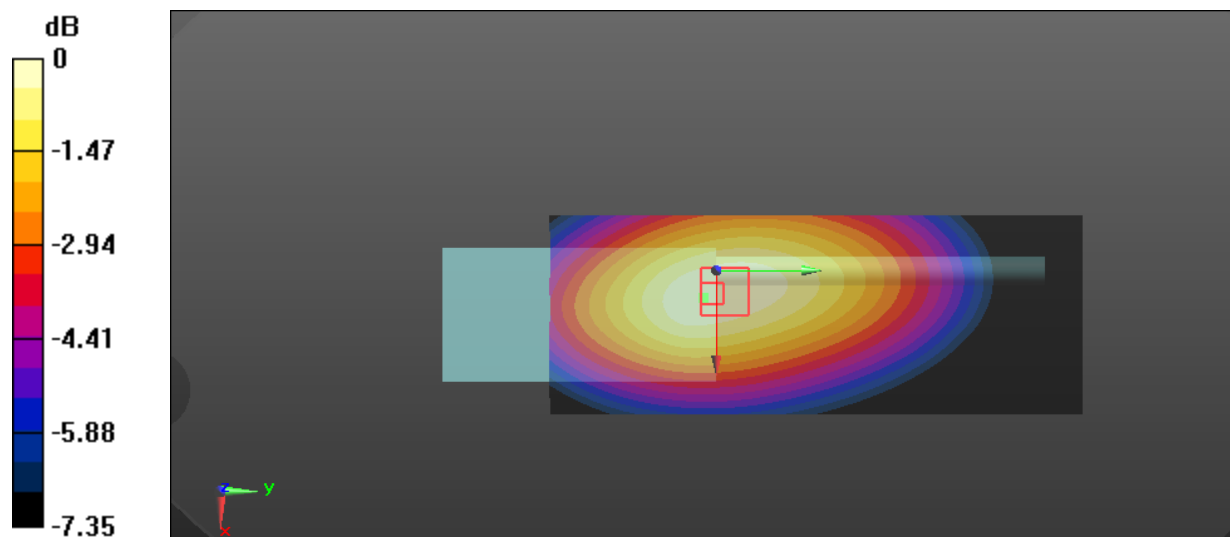
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 90.26 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 8.74 W/kg

SAR(1 g) = 6.76 W/kg; SAR(10 g) = 5.17 W/kg

Maximum value of SAR (measured) = 7.05 W/kg



0 dB = 7.05 W/kg = 8.48 dBW/kg

Test Plot 18#: FM_25kHz_417.5125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 417.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 417.512$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 44.513$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 8.55 W/kg

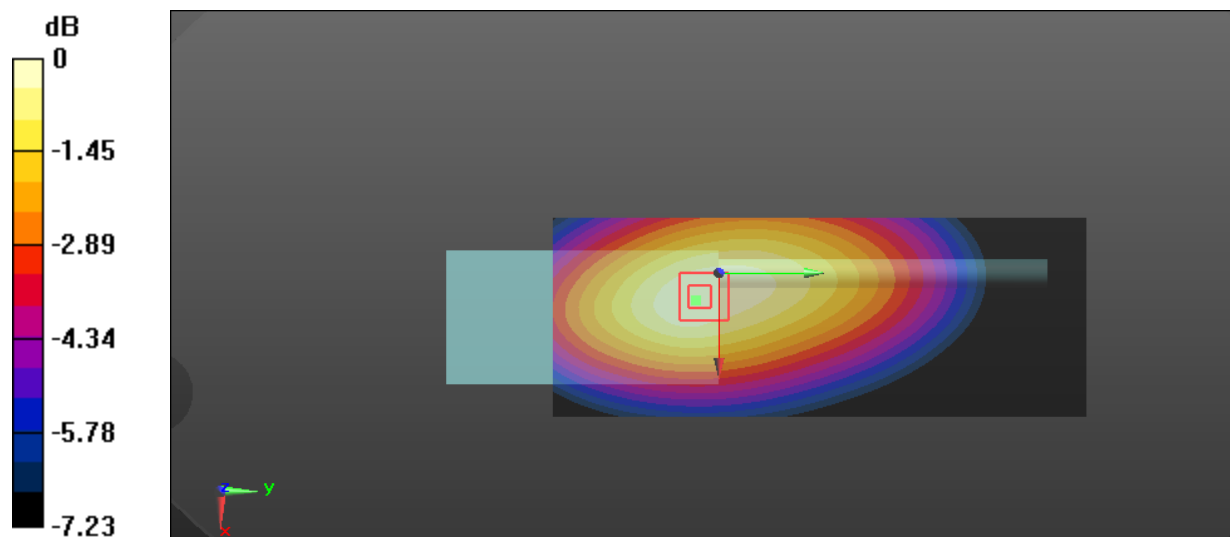
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.40 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 8.19 W/kg; SAR(10 g) = 6.22 W/kg

Maximum value of SAR (measured) = 8.60 W/kg



0 dB = 8.60 W/kg = 9.34 dBW/kg

Test Plot 19#: FM_25kHz_435.0125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 435.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 435.012$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 44.235$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 435.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.69 W/kg

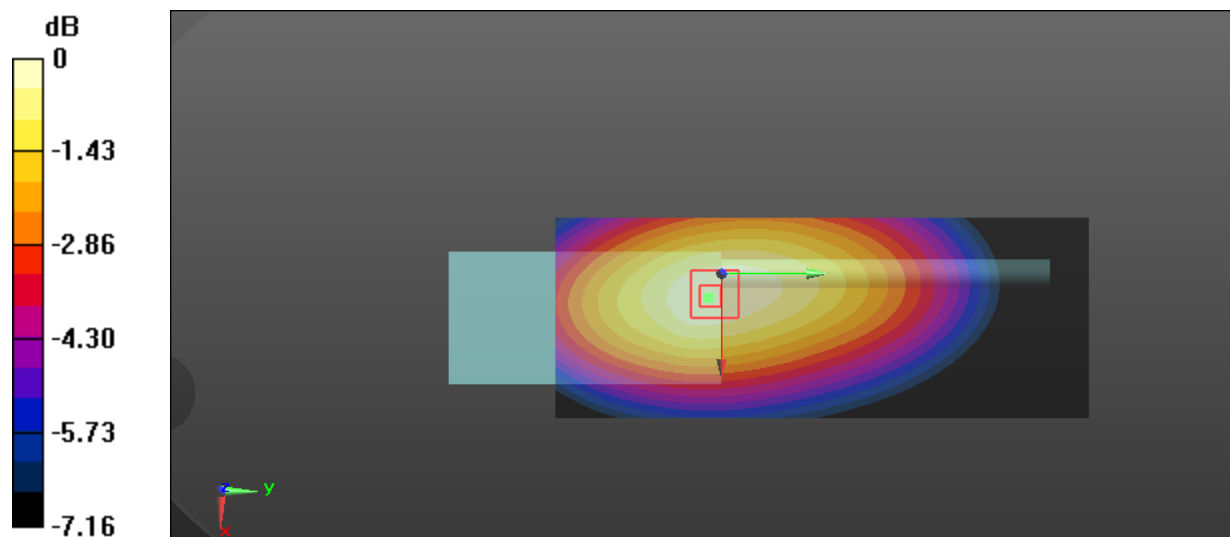
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.23 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 8.30 W/kg

SAR(1 g) = 6.44 W/kg; SAR(10 g) = 4.89 W/kg

Maximum value of SAR (measured) = 6.77 W/kg



0 dB = 6.77 W/kg = 8.31 dBW/kg

Test Plot 20#: FM_25kHz_452.4875 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 452.488 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 452.488$ MHz; $\sigma = 0.882$ S/m; $\epsilon_r = 43.911$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 452.488 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.28 W/kg

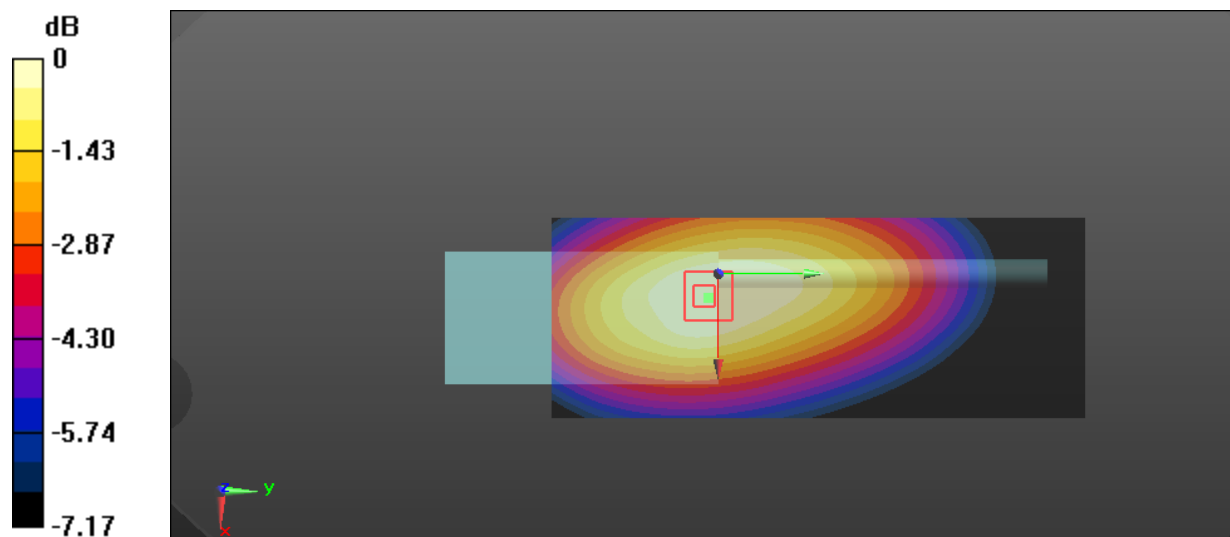
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 78.26 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 6.17 W/kg

SAR(1 g) = 4.72 W/kg; SAR(10 g) = 3.56 W/kg

Maximum value of SAR (measured) = 4.95 W/kg



0 dB = 4.95 W/kg = 6.95 dBW/kg

Test Plot 21#: FM_25kHz_469.9875 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

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

Medium parameters used: $f = 469.988$ MHz; $\sigma = 0.885$ S/m; $\epsilon_r = 43.637$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 469.988 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.06 W/kg

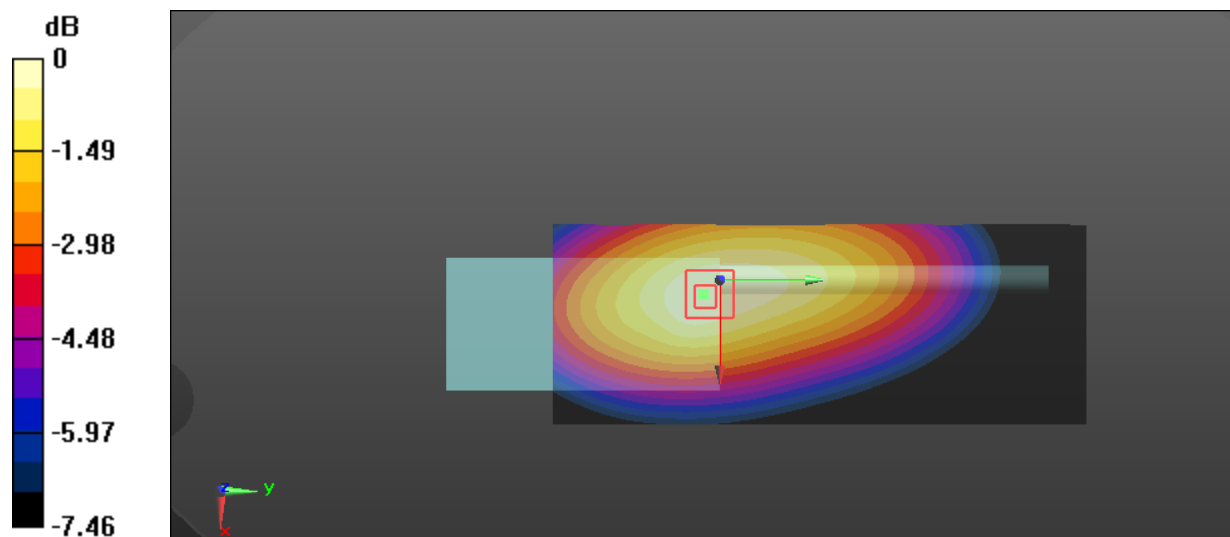
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 76.91 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 6.29 W/kg

SAR(1 g) = 4.85 W/kg; SAR(10 g) = 3.64 W/kg

Maximum value of SAR (measured) = 5.10 W/kg



0 dB = 5.10 W/kg = 7.08 dBW/kg

Test Plot 22#: 4FSK_12.5kHz_417.5125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: 4FSK; Frequency: 417.512 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 417.512$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 44.513$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 417.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.30 W/kg

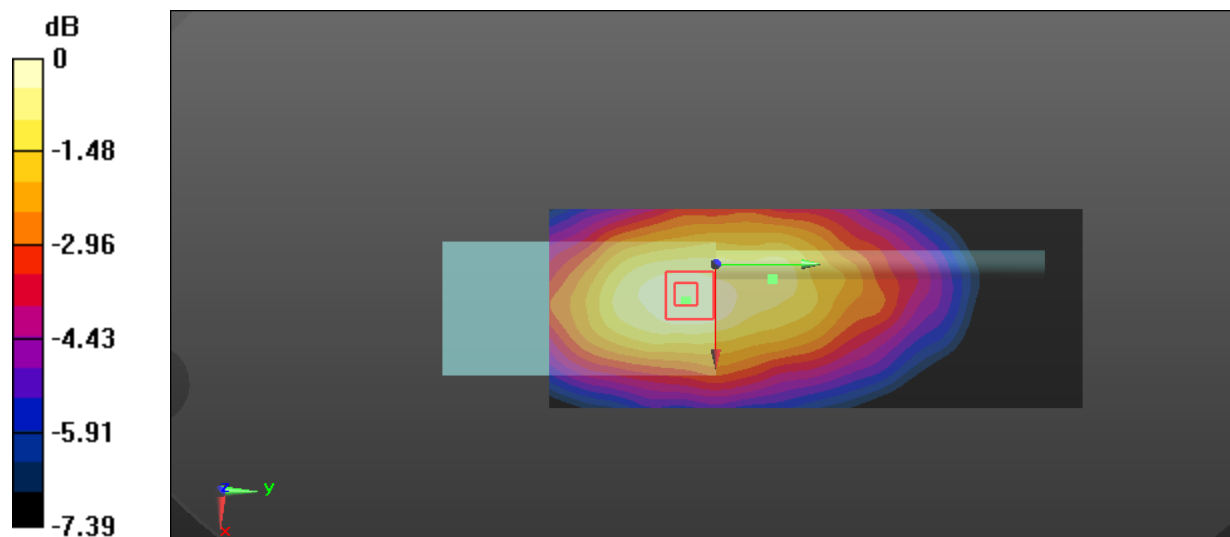
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 67.67 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.23 W/kg

SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.98 W/kg

Maximum value of SAR (measured) = 4.14 W/kg



0 dB = 4.14 W/kg = 6.17 dBW/kg

Test Plot 23#: FM_12.5kHz_484.2625 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 484.262 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 484.262$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 43.473$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 484.262 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.53 W/kg

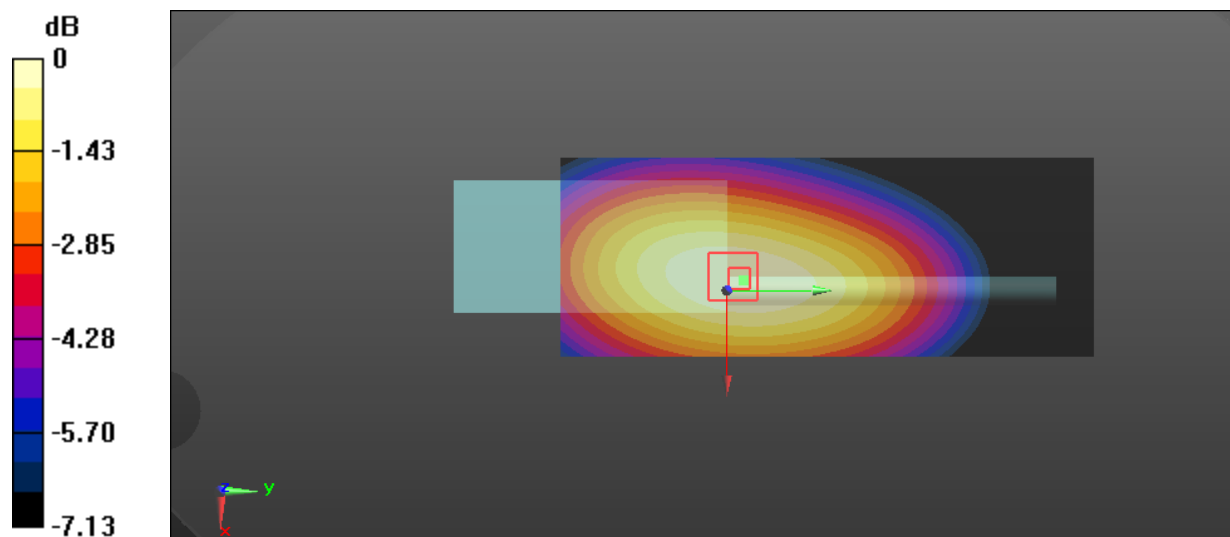
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.08 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 7.94 W/kg

SAR(1 g) = 6.2 W/kg; SAR(10 g) = 4.72 W/kg

Maximum value of SAR (measured) = 6.49 W/kg



0 dB = 6.49 W/kg = 8.12 dBW/kg

Test Plot 24#: FM_25kHz_470.0125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 470.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470.012$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 43.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 470.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.92 W/kg

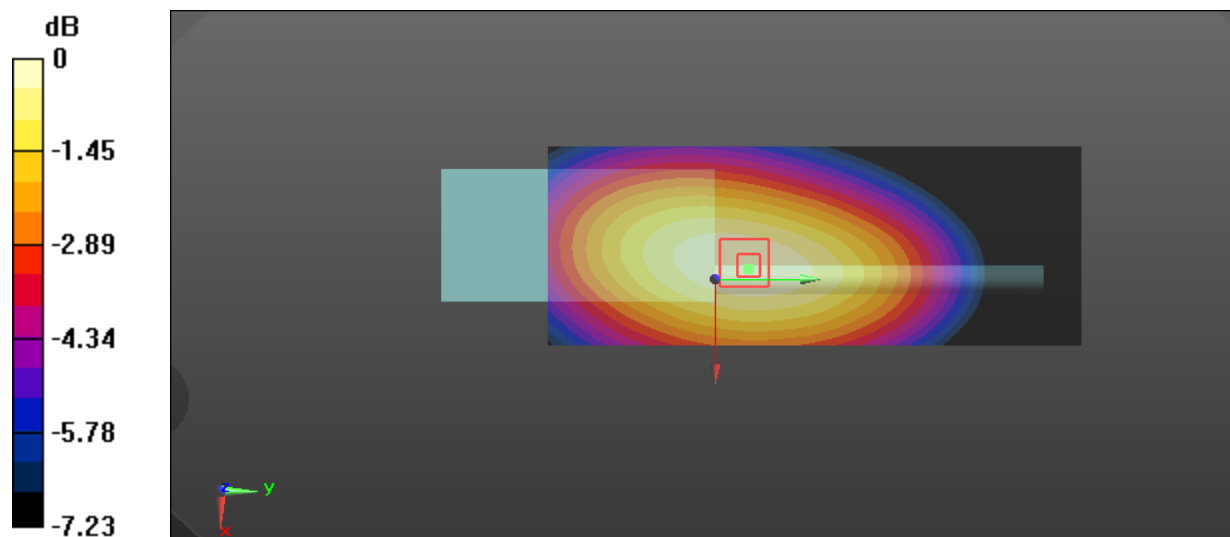
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 81.48 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 7.32 W/kg

SAR(1 g) = 5.65 W/kg; SAR(10 g) = 4.3 W/kg

Maximum value of SAR (measured) = 5.91 W/kg



0 dB = 5.91 W/kg = 7.72 dBW/kg

Test Plot 25#: FM_25kHz_484.2625 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 484.262 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 484.262$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 43.473$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 484.262 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.70 W/kg

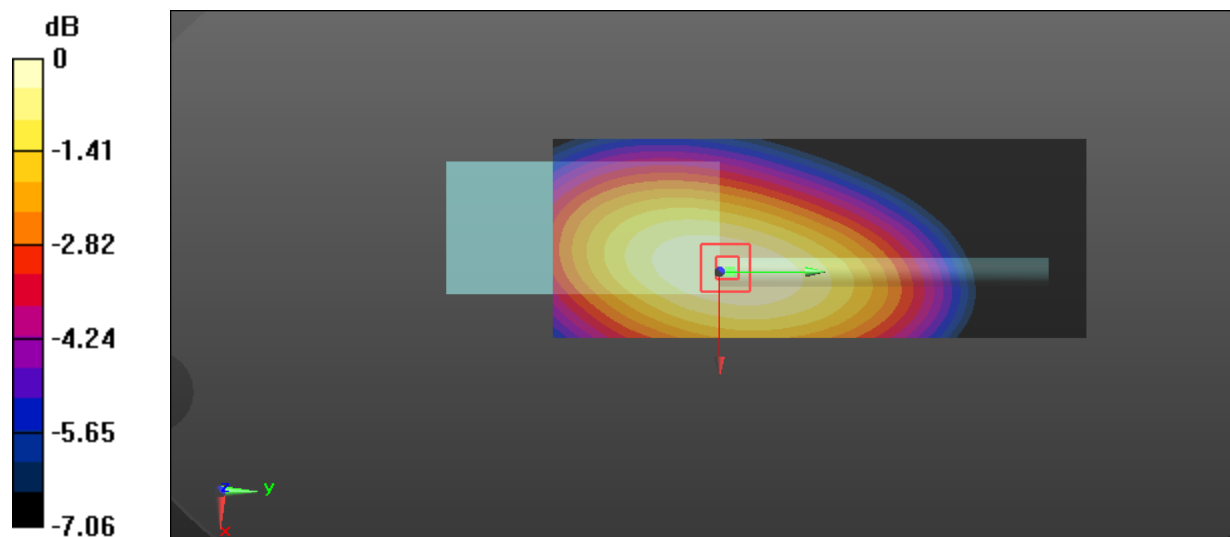
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.62 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 8.13 W/kg

SAR(1 g) = 6.31 W/kg; SAR(10 g) = 4.81 W/kg

Maximum value of SAR (measured) = 6.60 W/kg



0 dB = 6.60 W/kg = 8.20 dBW/kg

Test Plot 26#: FM_25kHz_498.5125 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 498.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 498.512$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 42.858$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 498.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.31 W/kg

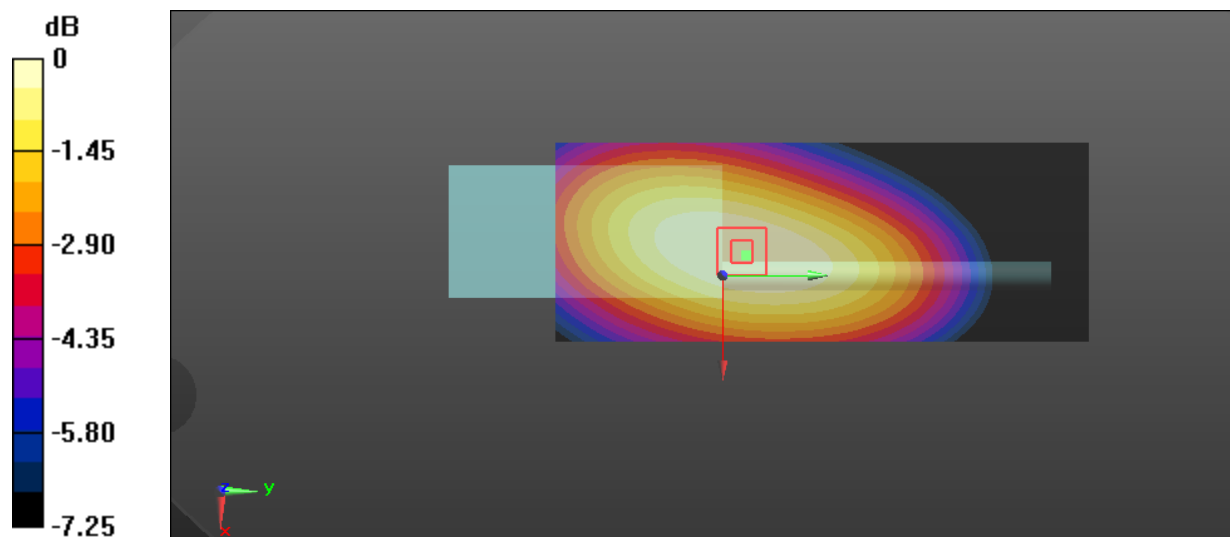
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 83.08 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 7.47 W/kg

SAR(1 g) = 5.78 W/kg; SAR(10 g) = 4.38 W/kg

Maximum value of SAR (measured) = 6.06 W/kg



0 dB = 6.06 W/kg = 7.82 dBW/kg

Test Plot 27#: FM_25kHz_512.7625 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

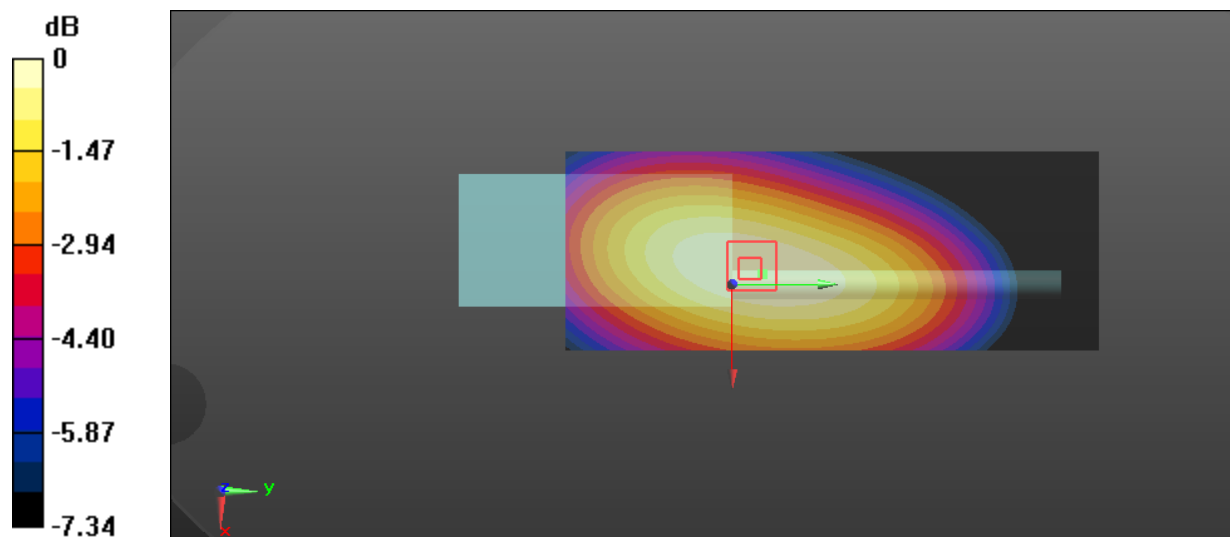
Communication System: FM; Frequency: 512.763 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 512.763 \text{ MHz}$; $\sigma = 0.883 \text{ S/m}$; $\epsilon_r = 42.746$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 512.763 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 3.85 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 66.39 V/m ; Power Drift = -0.17 dB Peak SAR (extrapolated) = 4.75 W/kg **SAR(1 g) = 3.64 W/kg ; SAR(10 g) = 2.75 W/kg** Maximum value of SAR (measured) = 3.80 W/kg 0 dB = 3.80 W/kg = 5.80 dBW/kg

Test Plot 28#: FM_25kHz_526.9875 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 526.987 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 526.987$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 526.987 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.06 W/kg

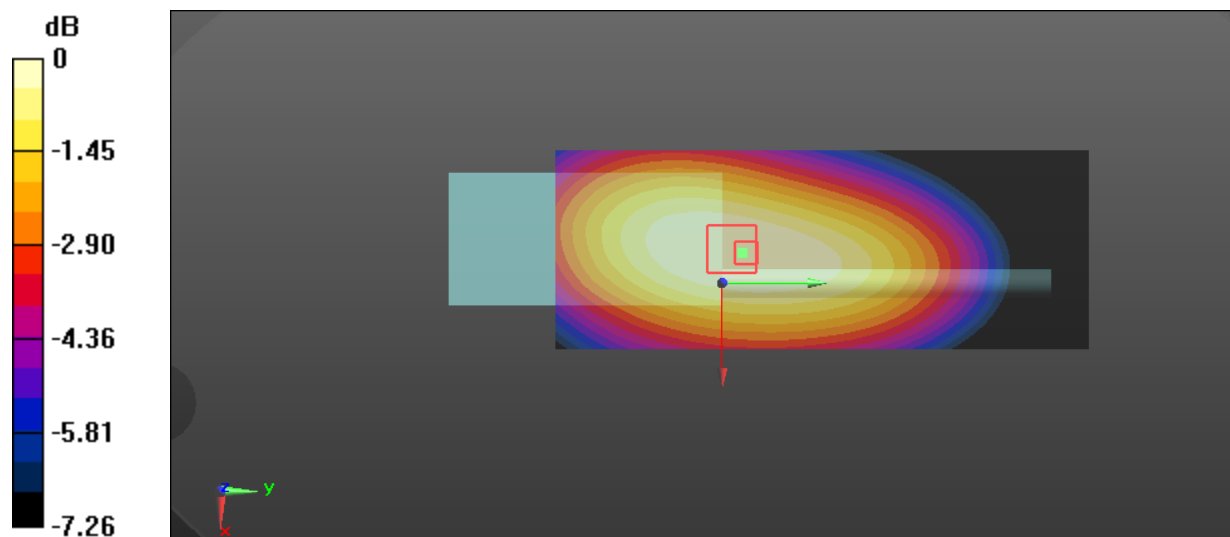
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 66.75 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.84 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 2.84 W/kg

Maximum value of SAR (measured) = 3.93 W/kg



0 dB = 3.93 W/kg = 5.94 dBW/kg

Test Plot 29#: 4FSK_12.5kHz_484.2625 MHz_Face Up**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: 4FSK; Frequency: 484.262 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 484.262$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 43.473$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 484.262 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.22 W/kg

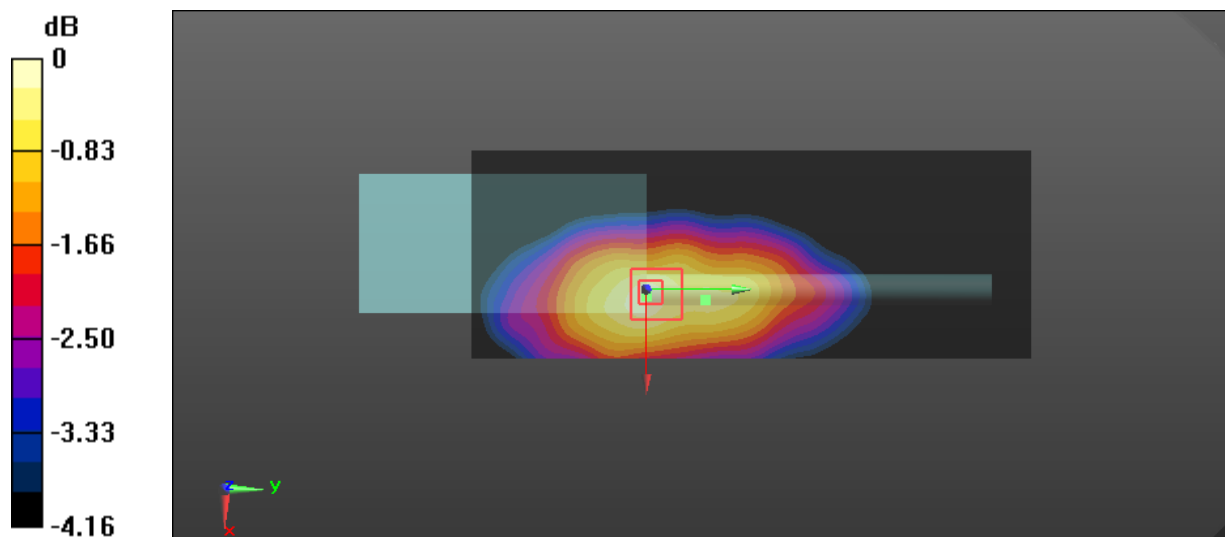
Zoom Scan (5x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 66.65 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 5.87 W/kg

SAR(1 g) = 4.02 W/kg; SAR(10 g) = 2.97 W/kg

Maximum value of SAR (measured) = 4.33 W/kg



0 dB = 4.33 W/kg = 6.36 dBW/kg

Test Plot 30#: FM_12.5kHz_470.0125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 470.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470.012$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 43.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 470.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.07 W/kg

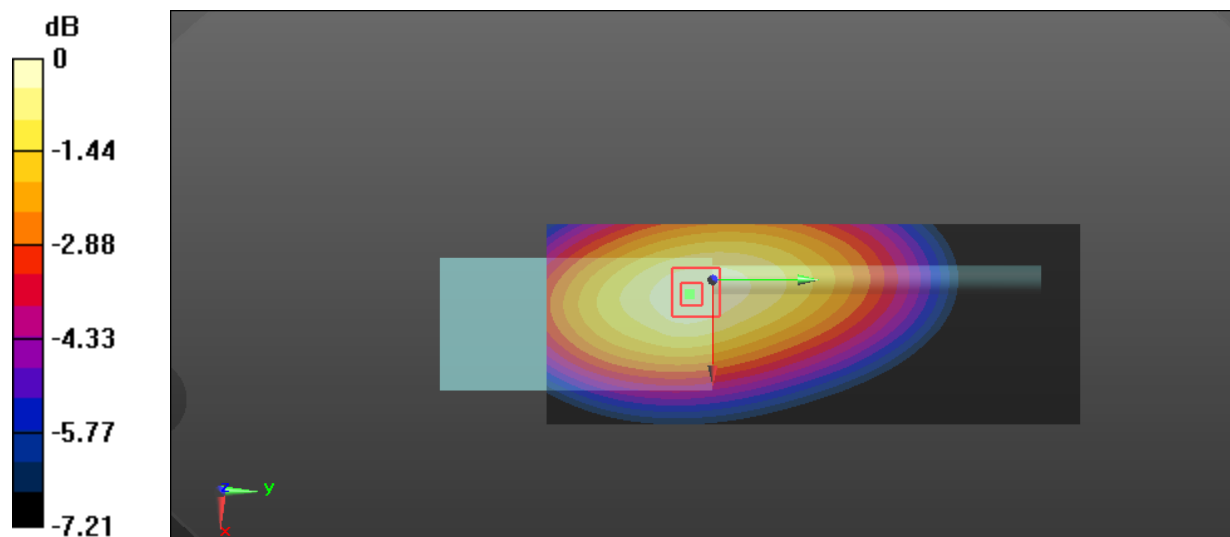
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 89.78 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 8.96 W/kg

SAR(1 g) = 6.81 W/kg; SAR(10 g) = 5.12 W/kg

Maximum value of SAR (measured) = 7.14 W/kg



0 dB = 7.14 W/kg = 8.54 dBW/kg

Test Plot 31#: FM_12.5kHz_484.2625 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 484.262 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 484.262$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 43.473$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 484.262 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 8.42 W/kg

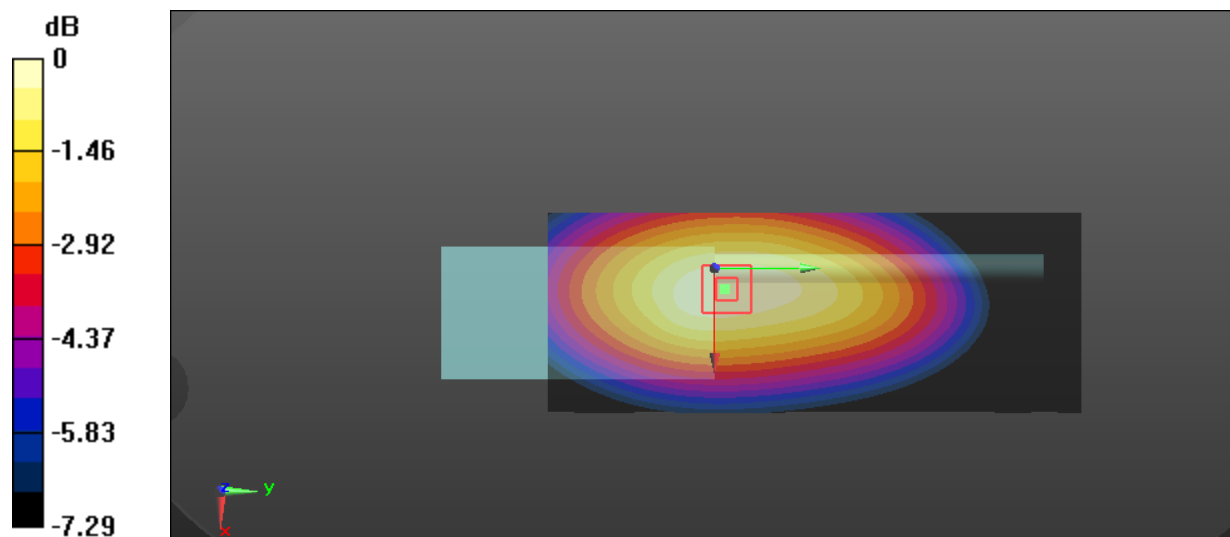
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.60 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 6.11 W/kg

Maximum value of SAR (measured) = 8.56 W/kg



0 dB = 8.56 W/kg = 9.32 dBW/kg

Test Plot 32#: FM_12.5kHz_498.5125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 498.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 498.512$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 42.858$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 498.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.44 W/kg

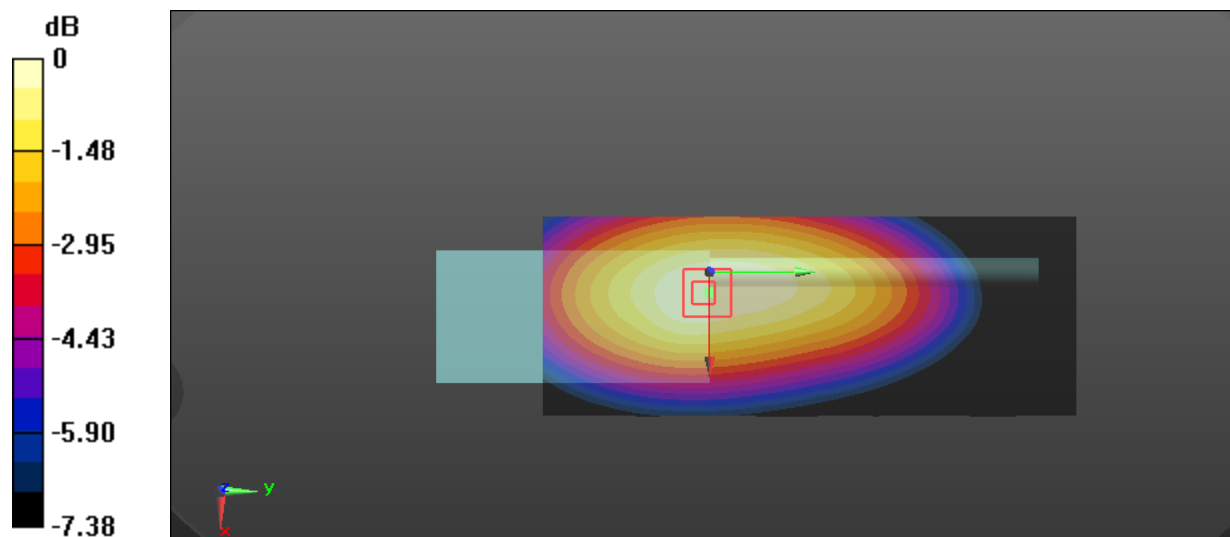
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.74 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 9.24 W/kg

SAR(1 g) = 7.03 W/kg; SAR(10 g) = 5.26 W/kg

Maximum value of SAR (measured) = 7.38 W/kg



0 dB = 7.38 W/kg = 8.68 dBW/kg

Test Plot 33#: FM_12.5kHz_512.7625 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

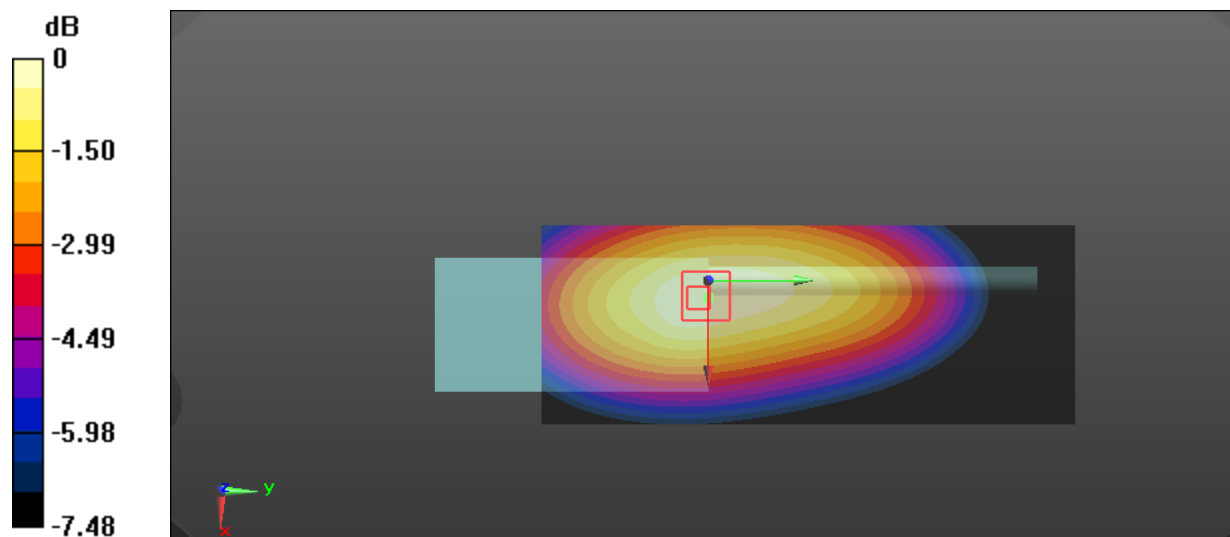
Communication System: FM; Frequency: 512.763 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 512.763 \text{ MHz}$; $\sigma = 0.883 \text{ S/m}$; $\epsilon_r = 42.746$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 512.763 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 5.08 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 76.52 V/m ; Power Drift = -0.17 dB Peak SAR (extrapolated) = 6.43 W/kg **SAR(1 g) = 4.86 W/kg ; SAR(10 g) = 3.62 W/kg** Maximum value of SAR (measured) = 5.11 W/kg  $0 \text{ dB} = 5.11 \text{ W/kg} = 7.08 \text{ dBW/kg}$

Test Plot 34#: FM_12.5kHz_526.9875 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

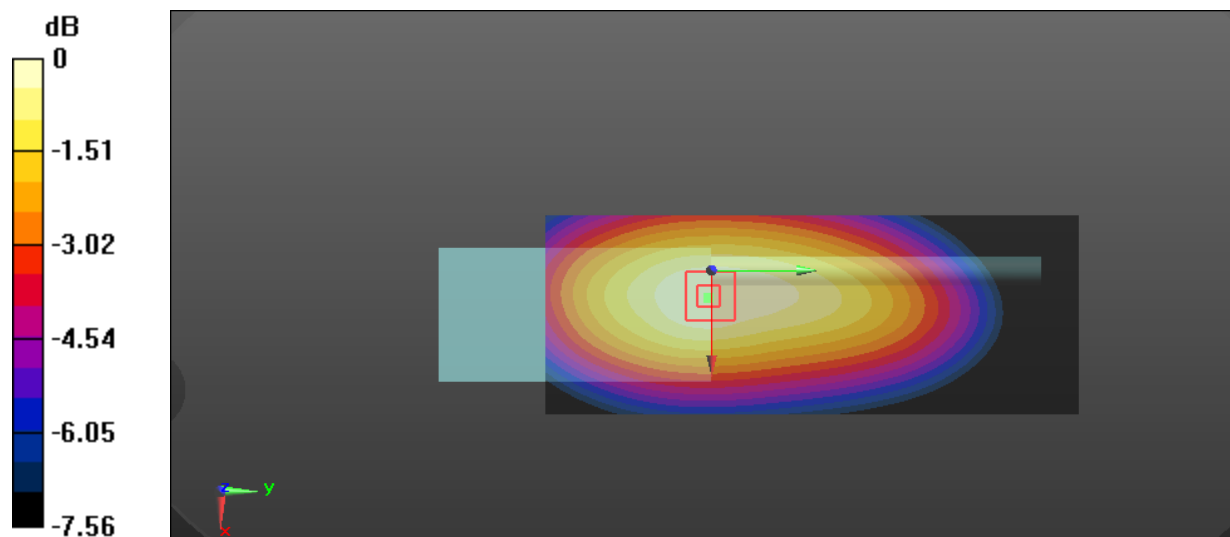
Communication System: FM; Frequency: 526.987 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 526.987 \text{ MHz}$; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 42.599$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 526.987 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 5.41 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 77.35 V/m ; Power Drift = -0.19 dB Peak SAR (extrapolated) = 6.68 W/kg **SAR(1 g) = 5.05 W/kg ; SAR(10 g) = 3.75 W/kg** Maximum value of SAR (measured) = 5.32 W/kg 0 dB = 5.32 W/kg = 7.26 dBW/kg

Test Plot 35#: FM_25kHz_470.0125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 470.012 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470.012$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 43.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 470.012 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.22 W/kg

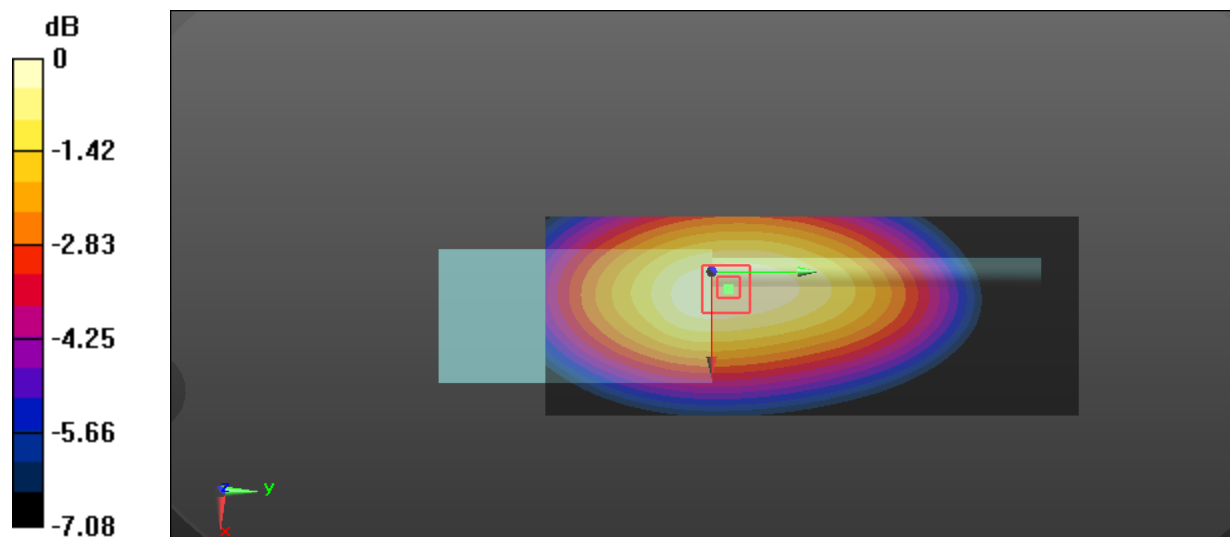
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.91 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 9.07 W/kg

SAR(1 g) = 6.96 W/kg; SAR(10 g) = 5.28 W/kg

Maximum value of SAR (measured) = 7.30 W/kg



0 dB = 7.30 W/kg = 8.63 dBW/kg

Test Plot 36#: FM_25kHz_484.2625 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 484.262 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 484.262$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 43.473$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 484.262 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 8.32 W/kg

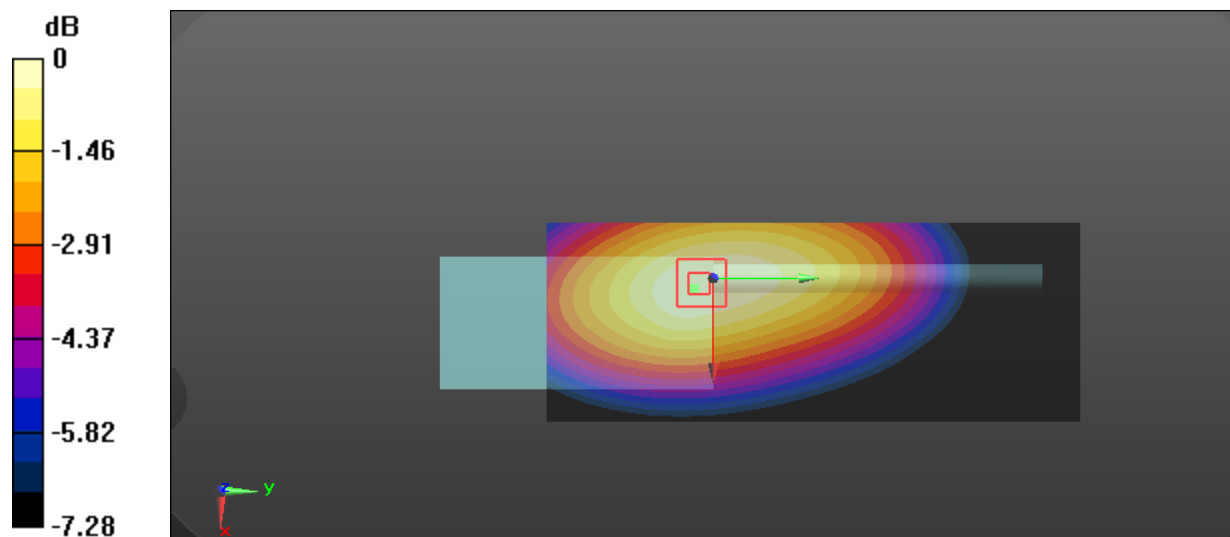
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 98.07 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 7.95 W/kg; SAR(10 g) = 6 W/kg

Maximum value of SAR (measured) = 8.33 W/kg



0 dB = 8.33 W/kg = 9.21 dBW/kg

Test Plot 37#: FM_25kHz_498.5125 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 498.512 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 498.512$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 42.858$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 498.512 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.05 W/kg

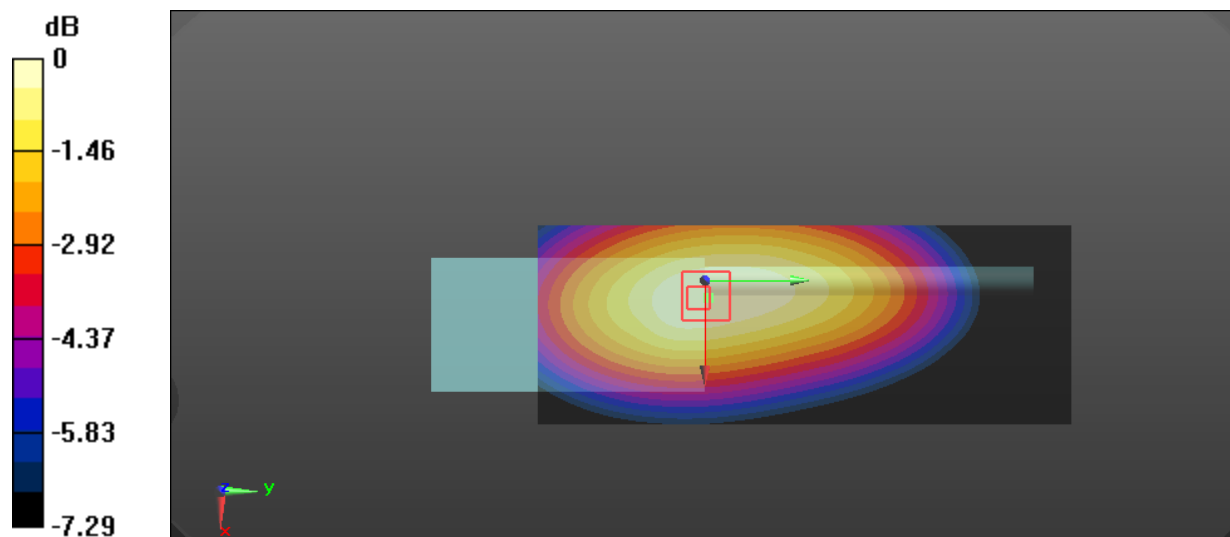
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.23 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 8.62 W/kg

SAR(1 g) = 6.63 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 6.96 W/kg



0 dB = 6.96 W/kg = 8.43 dBW/kg

Test Plot 38#: FM_25kHz_512.7625 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 512.763 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 512.763$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 42.746$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 512.763 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.90 W/kg

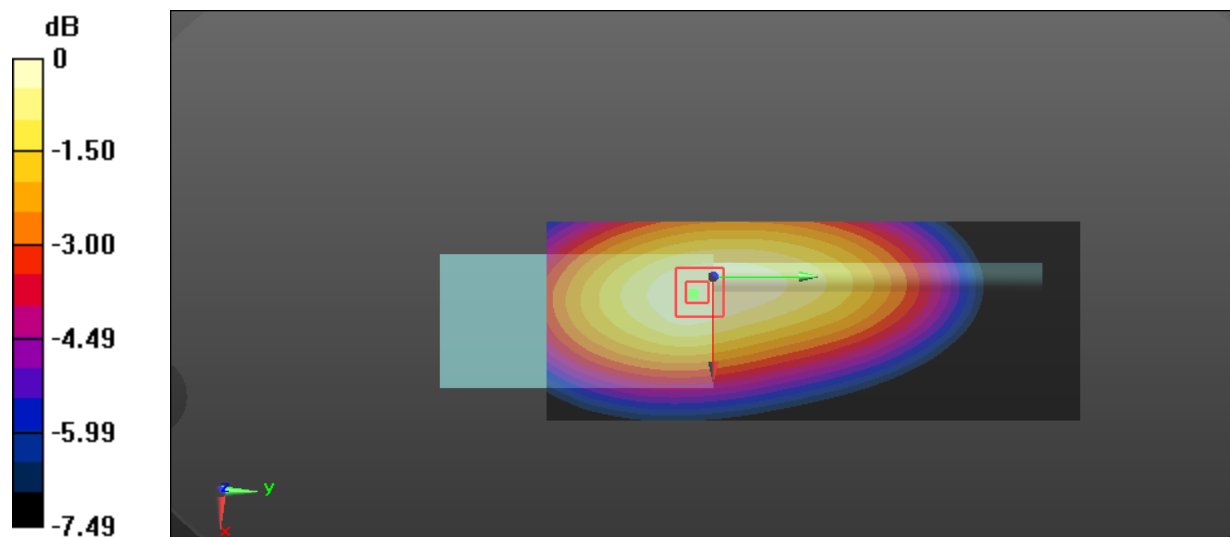
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 75.79 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 6.08 W/kg

SAR(1 g) = 4.62 W/kg; SAR(10 g) = 3.45 W/kg

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



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

Test Plot 39#: FM_25kHz_526.9875 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: FM; Frequency: 526.987 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 526.987$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 42.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 526.987 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.33 W/kg

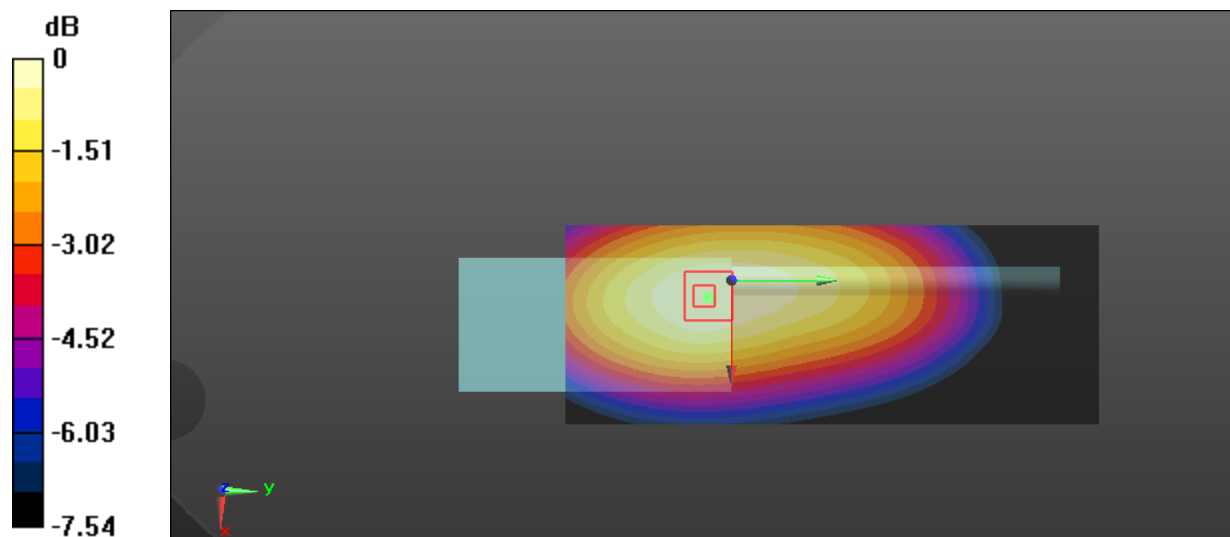
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 77.13 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 6.49 W/kg

SAR(1 g) = 4.96 W/kg; SAR(10 g) = 3.69 W/kg

Maximum value of SAR (measured) = 5.21 W/kg



0 dB = 5.21 W/kg = 7.17 dBW/kg

Test Plot 40#: 4FSK_12.5kHz_484.2625 MHz_Body Back**DUT: Digital Portable Radio; Type: HP682 Um; Serial: RDG191217003-SA-S1**

Communication System: 4FSK; Frequency: 484.262 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 484.262$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 43.473$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 484.262 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2019/12/25
- Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.09 W/kg

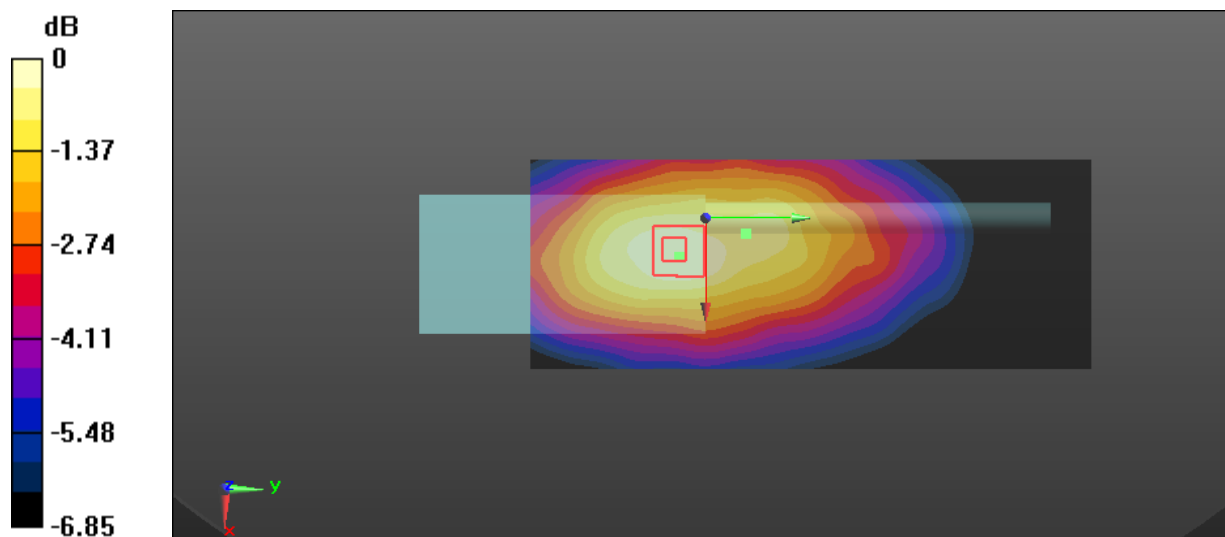
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 58.51 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 4.16 W/kg

SAR(1 g) = 2.88 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 3.07 W/kg



0 dB = 3.07 W/kg = 4.87 dBW/kg