

**Test Plot 1#: FM\_12.5kHz\_136.0125 MHz\_Face Up****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 136.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 136.012$  MHz;  $\sigma = 0.762$  S/m;  $\epsilon_r = 52.53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.59, 7.59, 7.59) @ 136.012 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.92 W/kg

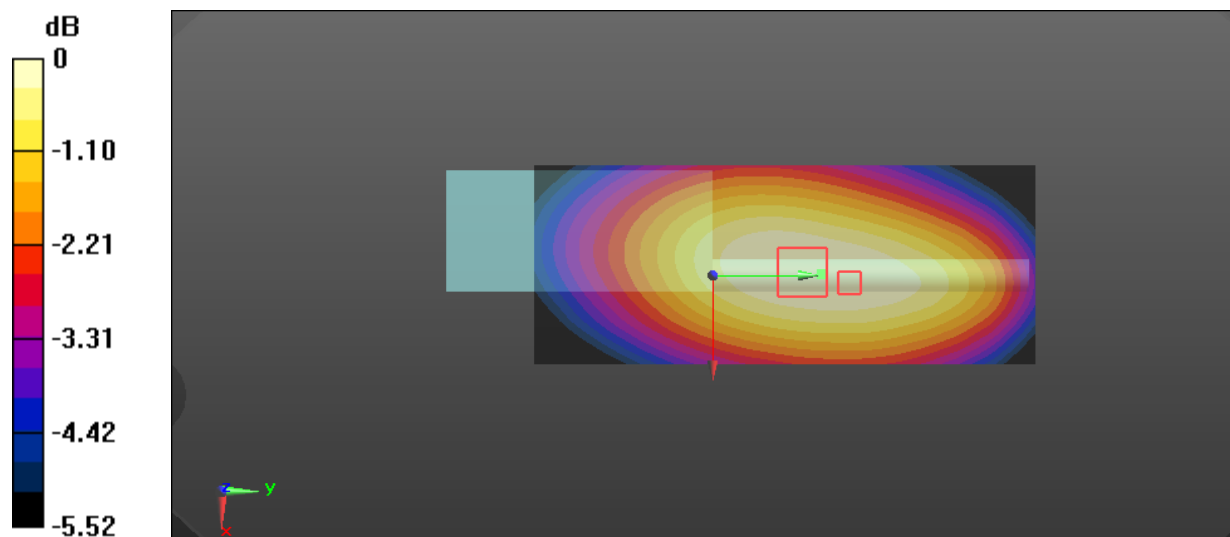
**Zoom Scan (5x8x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.19 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.54 W/kg

**SAR(1 g) = 2.77 W/kg; SAR(10 g) = 2.24 W/kg**

Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dBW/kg

**Test Plot 2#: FM\_25kHz\_136.0125 MHz\_Face Up****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 136.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 136.012$  MHz;  $\sigma = 0.762$  S/m;  $\epsilon_r = 52.53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.59, 7.59, 7.59) @ 136.012 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.86 W/kg

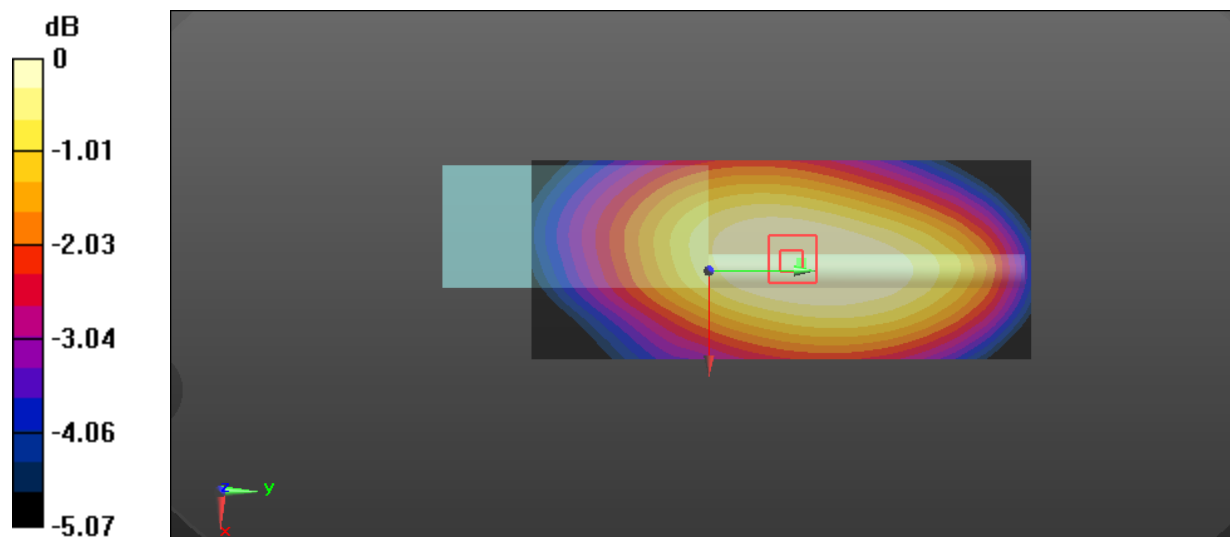
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.82 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.22 W/kg

**SAR(1 g) = 2.63 W/kg; SAR(10 g) = 2.13 W/kg**

Maximum value of SAR (measured) = 2.72 W/kg



0 dB = 2.72 W/kg = 4.35 dBW/kg

**Test Plot 3#: 4FSK\_12.5kHz\_136.0125 MHz\_Face Up****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: 4FSK; Frequency: 136.012 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 136.012$  MHz;  $\sigma = 0.762$  S/m;  $\epsilon_r = 52.53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.59, 7.59, 7.59) @ 136.012 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.910 W/kg

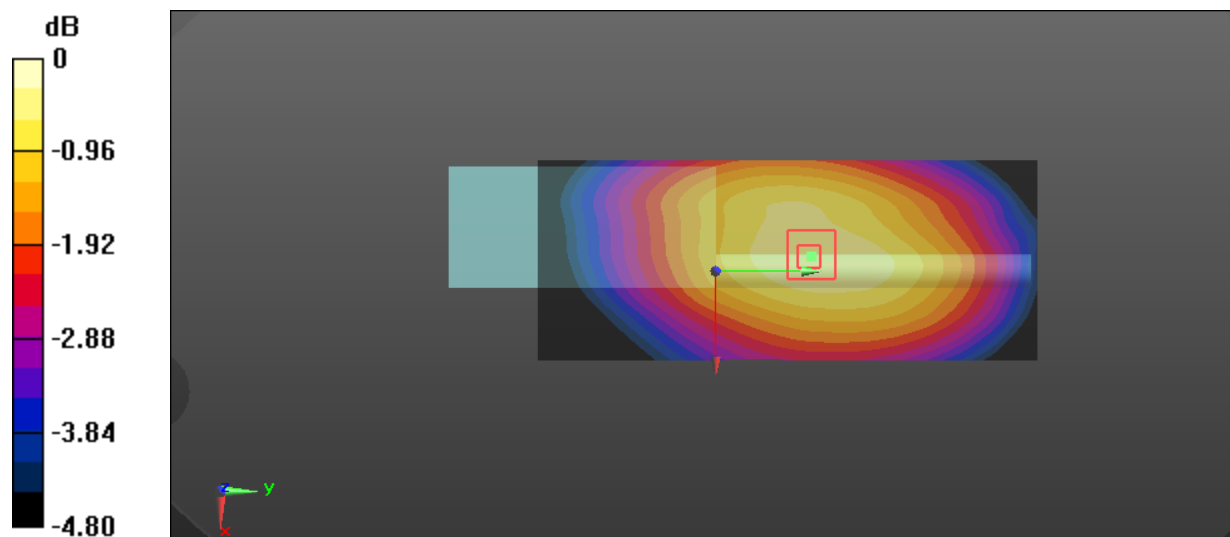
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.68 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.949 W/kg; SAR(10 g) = 0.784 W/kg**

Maximum value of SAR (measured) = 0.984 W/kg



0 dB = 0.984 W/kg = -0.07 dBW/kg

**Test Plot 4#: FM\_12.5kHz\_136.0125 MHz\_Body Back****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 136.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 136.012$  MHz;  $\sigma = 0.778$  S/m;  $\epsilon_r = 60.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.43, 7.43, 7.43) @ 136.012 MHz; Calibrated: 2020/2/24
- 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 7.01 W/kg

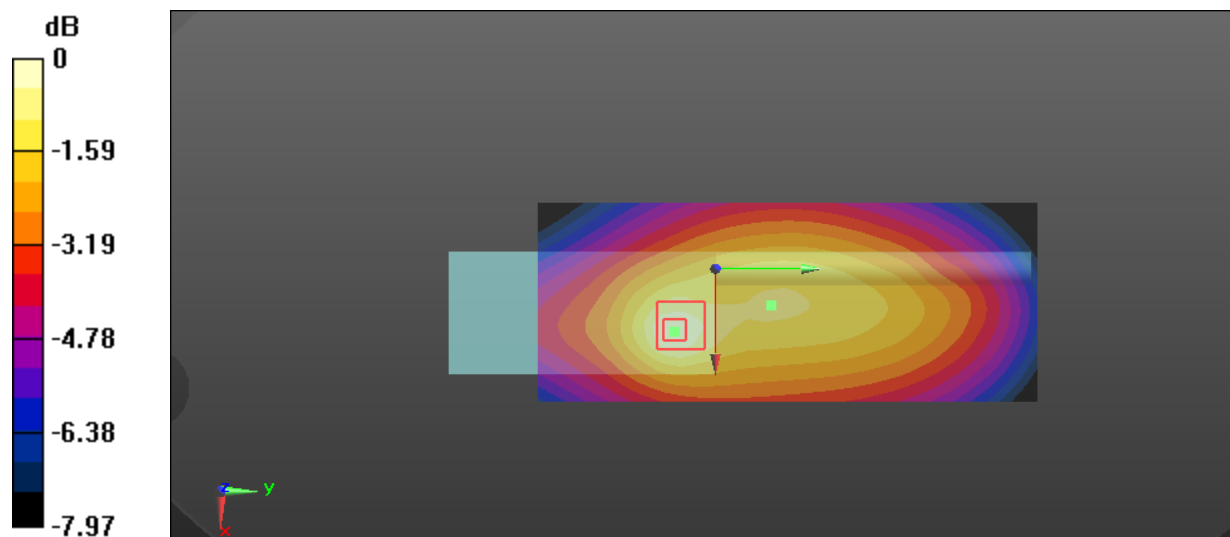
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 79.86 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 10.4 W/kg

**SAR(1 g) = 6.07 W/kg; SAR(10 g) = 4.16 W/kg**

Maximum value of SAR (measured) = 6.56 W/kg



0 dB = 6.56 W/kg = 8.17 dBW/kg

**Test Plot 5#: FM\_25kHz\_136.0125 MHz\_Body Back****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 136.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 136.012$  MHz;  $\sigma = 0.778$  S/m;  $\epsilon_r = 60.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.43, 7.43, 7.43) @ 136.012 MHz; Calibrated: 2020/2/24
- 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 (61x151x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 5.55 W/kg

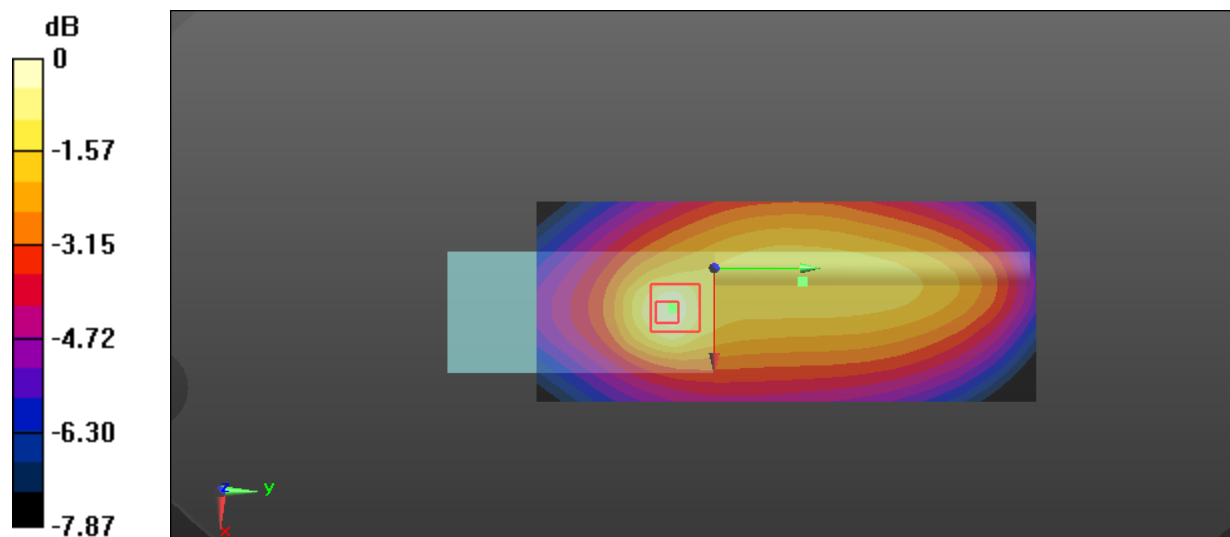
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 77.63 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 9.63 W/kg

**SAR(1 g) = 5.44 W/kg; SAR(10 g) = 3.67 W/kg**

Maximum value of SAR (measured) = 5.73 W/kg



0 dB = 5.73 W/kg = 7.58 dBW/kg

**Test Plot 6#: 4FSK\_12.5kHz\_136.0125 MHz\_Body Back****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: 4FSK; Frequency: 136.012 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 136.012$  MHz;  $\sigma = 0.778$  S/m;  $\epsilon_r = 60.74$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.43, 7.43, 7.43) @ 136.012 MHz; Calibrated: 2020/2/24
- 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

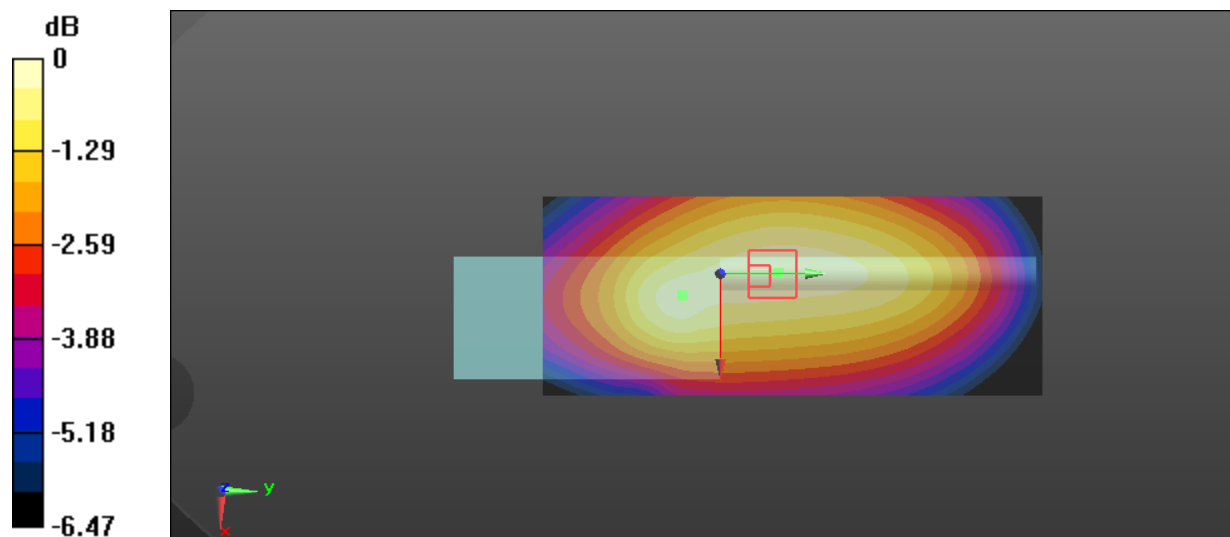
**Zoom Scan (7x10x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.73 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.99 W/kg

**SAR(1 g) = 3.06 W/kg; SAR(10 g) = 2.52 W/kg**

Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.18 W/kg = 5.02 dBW/kg

**Test Plot 7#: FM\_12.5kHz\_160.0125 MHz\_Face Up****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 160.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 160.012$  MHz;  $\sigma = 0.762$  S/m;  $\epsilon_r = 51.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.59, 7.59, 7.59) @ 160.012 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.54 W/kg

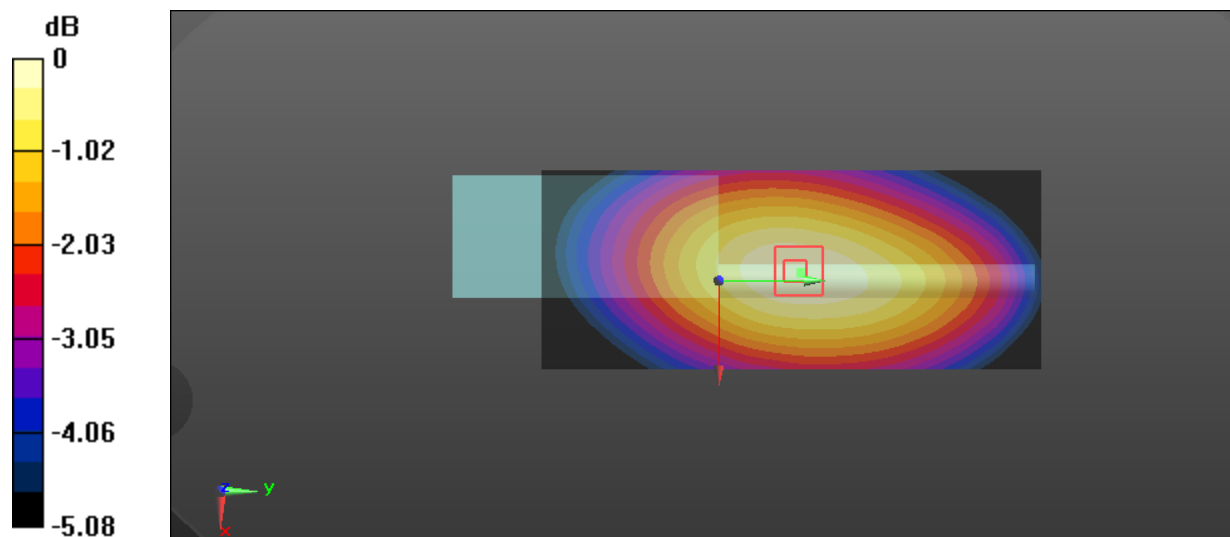
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.39 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.03 W/kg

**SAR(1 g) = 2.48 W/kg; SAR(10 g) = 2.01 W/kg**

Maximum value of SAR (measured) = 2.57 W/kg



0 dB = 2.57 W/kg = 4.10 dBW/kg

**Test Plot 8#: FM\_25kHz\_160.0125 MHz\_Face Up****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 160.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 160.012$  MHz;  $\sigma = 0.762$  S/m;  $\epsilon_r = 51.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.59, 7.59, 7.59) @ 160.012 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 (61x151x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 2.48 W/kg

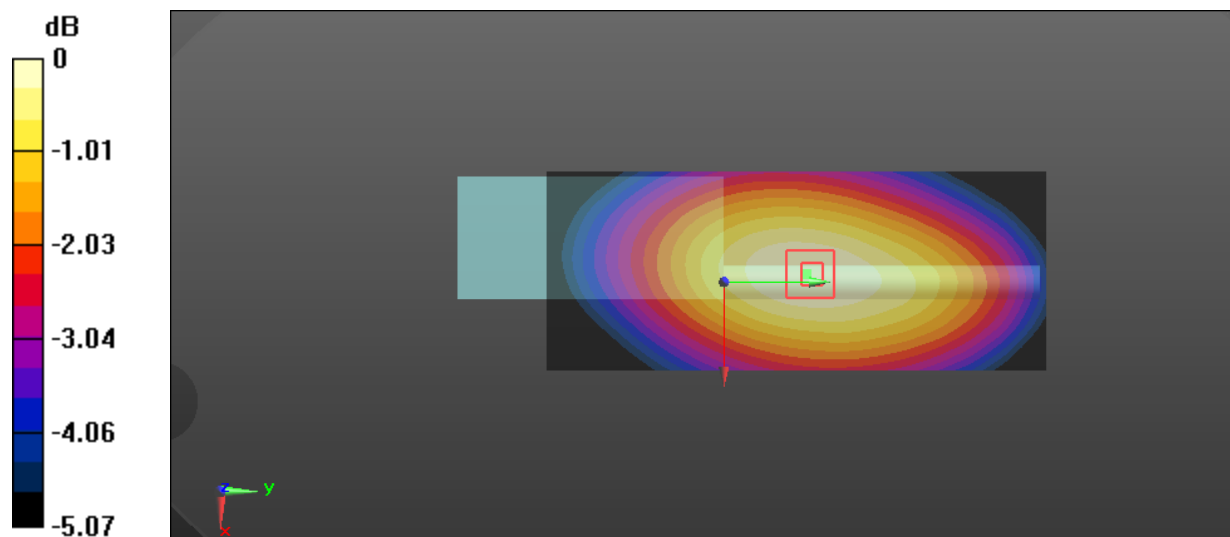
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 54.88 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.89 W/kg

**SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.94 W/kg**

Maximum value of SAR (measured) = 2.47 W/kg



0 dB = 2.47 W/kg = 3.93 dBW/kg



**Test Plot 9#: 4FSK\_12.5kHz\_160.0125 MHz\_Face Up****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: 4FSK; Frequency: 160.012 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 160.012$  MHz;  $\sigma = 0.762$  S/m;  $\epsilon_r = 51.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.59, 7.59, 7.59) @ 160.012 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 (61x151x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.26 W/kg

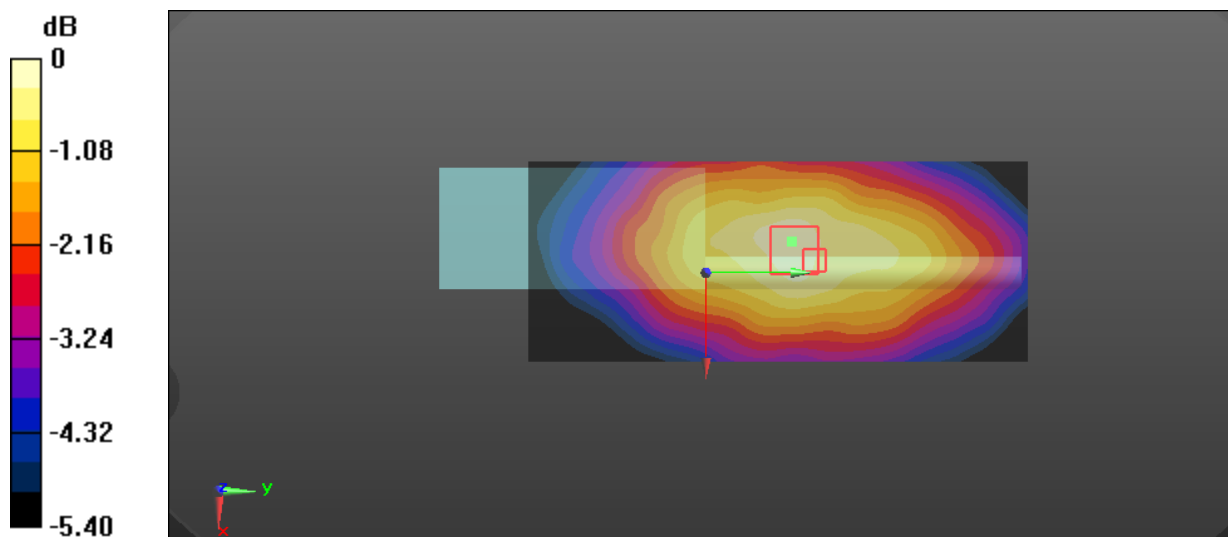
**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 37.79 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.970 W/kg**

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

**Test Plot 10#: FM\_12.5kHz\_153.0125 MHz\_Body Back****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 153.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 153.012$  MHz;  $\sigma = 0.814$  S/m;  $\epsilon_r = 60.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.43, 7.43, 7.43) @ 153.012 MHz; Calibrated: 2020/2/24
- 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.71 W/kg

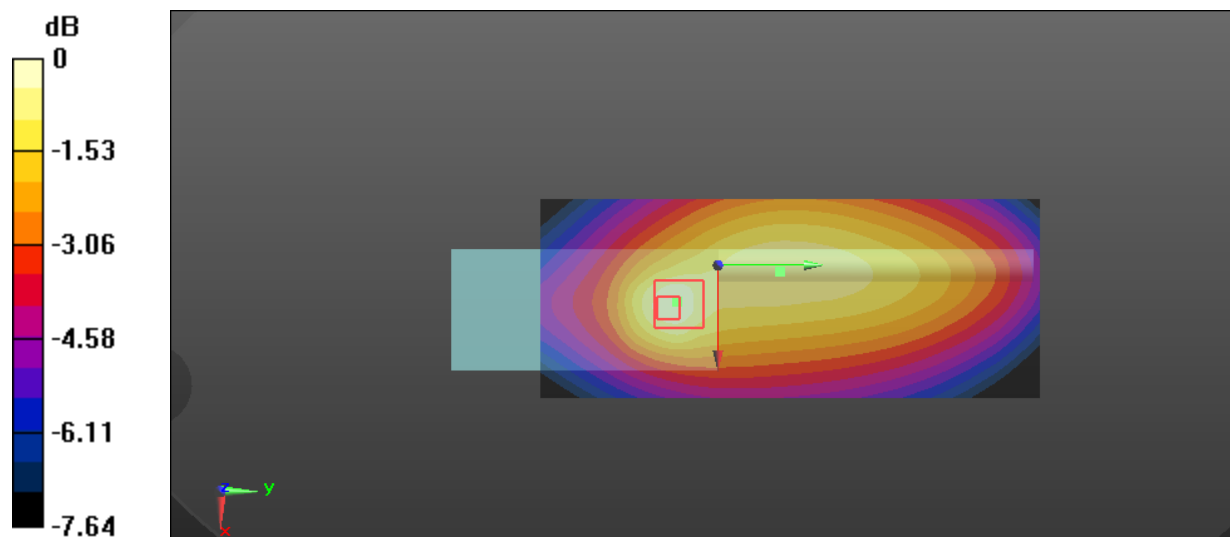
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 69.39 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 7.95 W/kg

**SAR(1 g) = 4.5 W/kg; SAR(10 g) = 3.07 W/kg**

Maximum value of SAR (measured) = 4.63 W/kg



0 dB = 4.63 W/kg = 6.66 dBW/kg

**Test Plot 11#: FM\_25kHz\_153.0125 MHz\_Body Back****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: FM; Frequency: 153.012 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 153.012$  MHz;  $\sigma = 0.814$  S/m;  $\epsilon_r = 60.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.43, 7.43, 7.43) @ 153.012 MHz; Calibrated: 2020/2/24
- 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

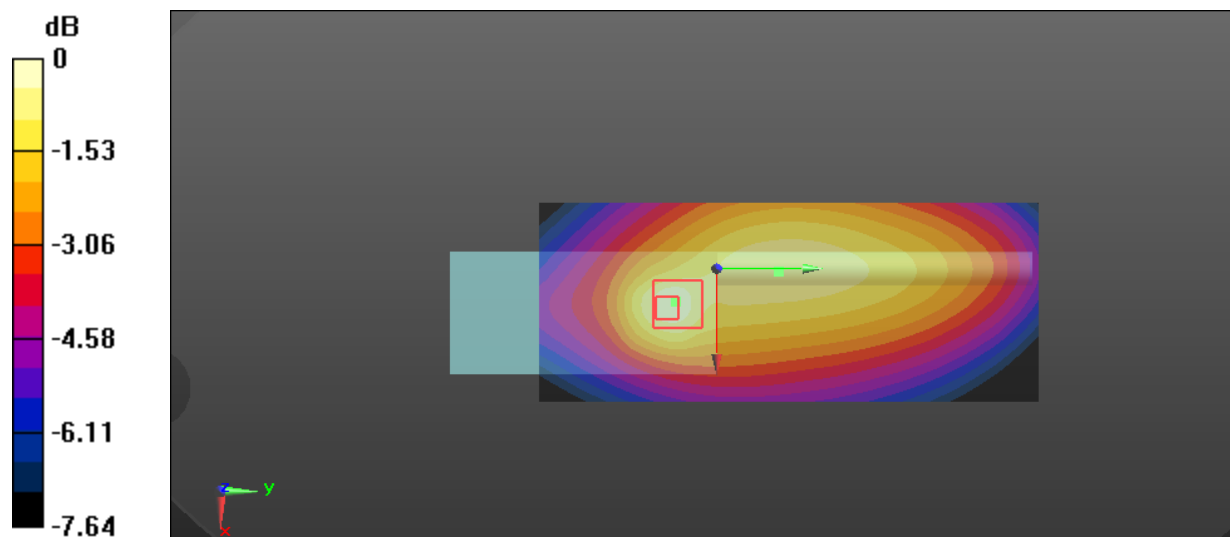
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 67.15 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 7.72 W/kg

**SAR(1 g) = 4.29 W/kg; SAR(10 g) = 2.9 W/kg**

Maximum value of SAR (measured) = 4.41 W/kg



0 dB = 4.41 W/kg = 6.44 dBW/kg

**Test Plot 12#: 4FSK\_12.5kHz\_153.0125 MHz\_Body Back****DUT: Digital Portable Radio; Type: HP682 VHF; Serial: RDG200117009-SA-S1**

Communication System: 4FSK; Frequency: 153.012 MHz; Duty Cycle: 1:2

Medium parameters used:  $f = 153.012$  MHz;  $\sigma = 0.814$  S/m;  $\epsilon_r = 60.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV2 - SN3019; ConvF(7.43, 7.43, 7.43) @ 153.012 MHz; Calibrated: 2020/2/24
- 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 (61x151x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

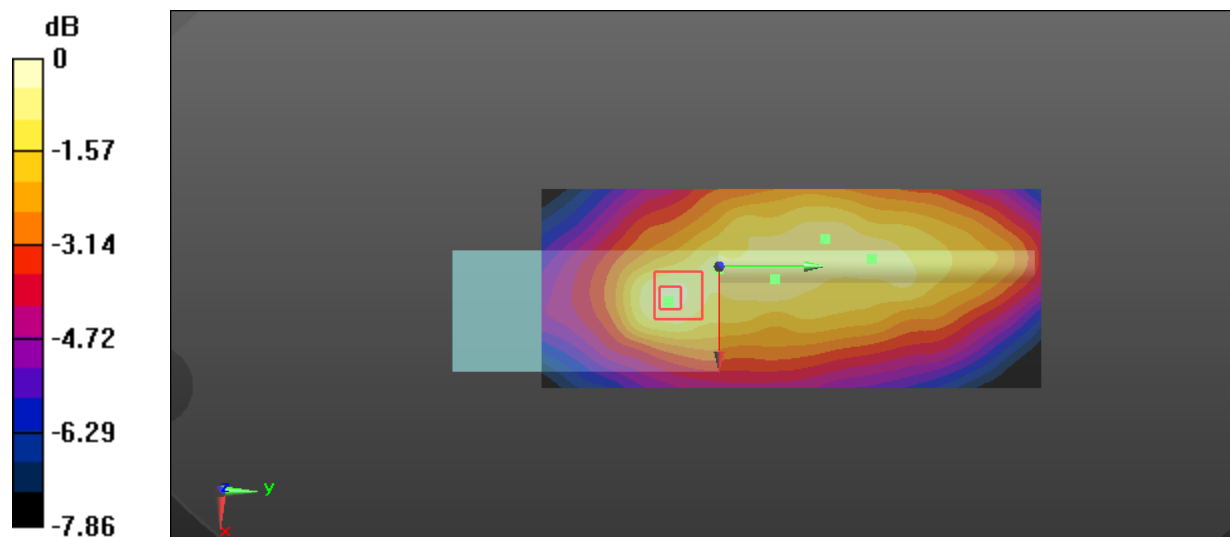
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 46.98 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 3.81 W/kg

**SAR(1 g) = 1.95 W/kg; SAR(10 g) = 1.33 W/kg**

Maximum value of SAR (measured) = 2.06 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg