

Test Plot 1#:LoRa 125kHz_Body Back_Low**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_125kHz; Frequency: 902.487 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 902.487$ MHz; $\sigma = 1.014$ S/m; $\epsilon_r = 55.964$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.63 W/kg

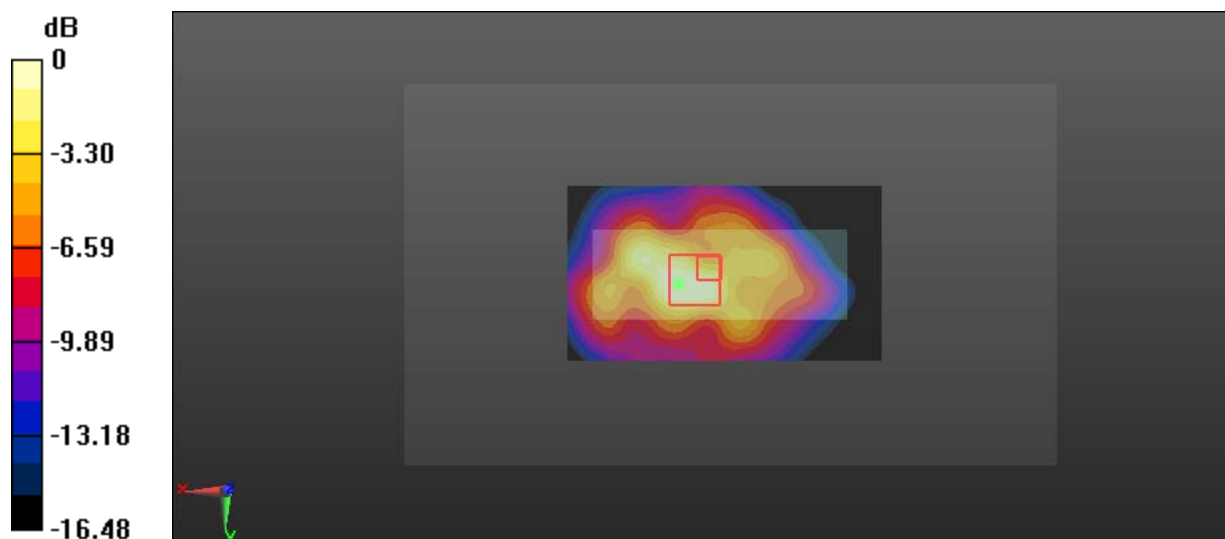
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.64 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.829 W/kg

Maximum value of SAR (measured) = 2.44 W/kg



0 dB = 2.44 W/kg = 3.87 dBW/kg

Test Plot 2#:LoRa 125kHz_Body Back_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

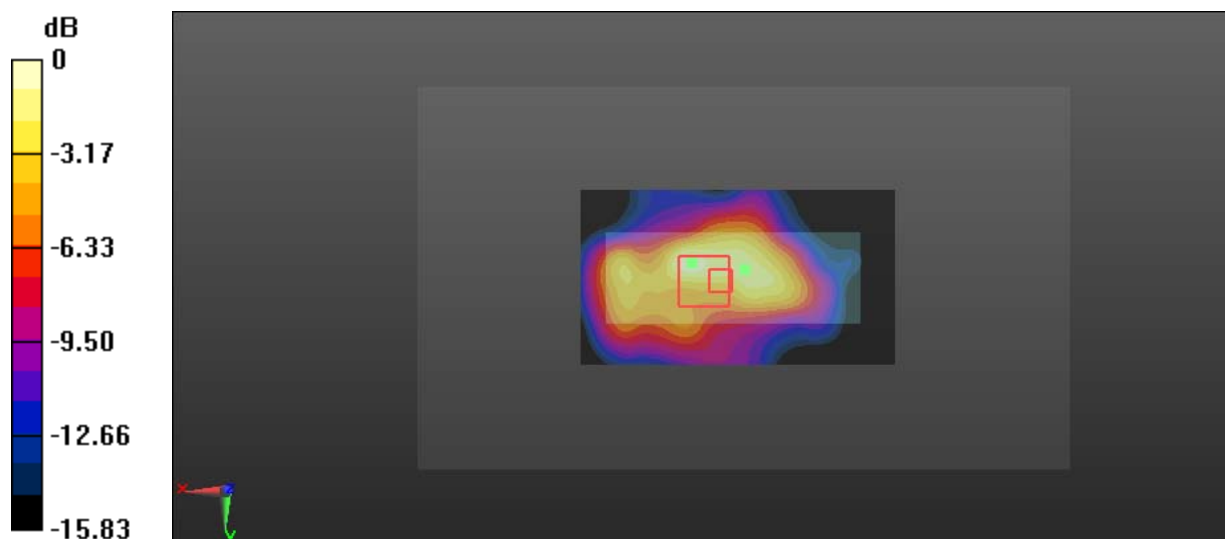
Communication System: LoRa_125kHz; Frequency: 914.987 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 2.17 W/kg **Zoom Scan (6x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 40.85 V/m ; Power Drift = -0.12 dB Peak SAR (extrapolated) = 3.15 W/kg **SAR(1 g) = 1.1 W/kg ; SAR(10 g) = 0.732 W/kg** Maximum value of SAR (measured) = 2.30 W/kg  $0 \text{ dB} = 2.30 \text{ W/kg} = 3.62 \text{ dBW/kg}$

Test Plot 3#:LoRa 125kHz_Body Back_High**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_125kHz; Frequency: 927.487 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 927.487$ MHz; $\sigma = 1.024$ S/m; $\epsilon_r = 55.704$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

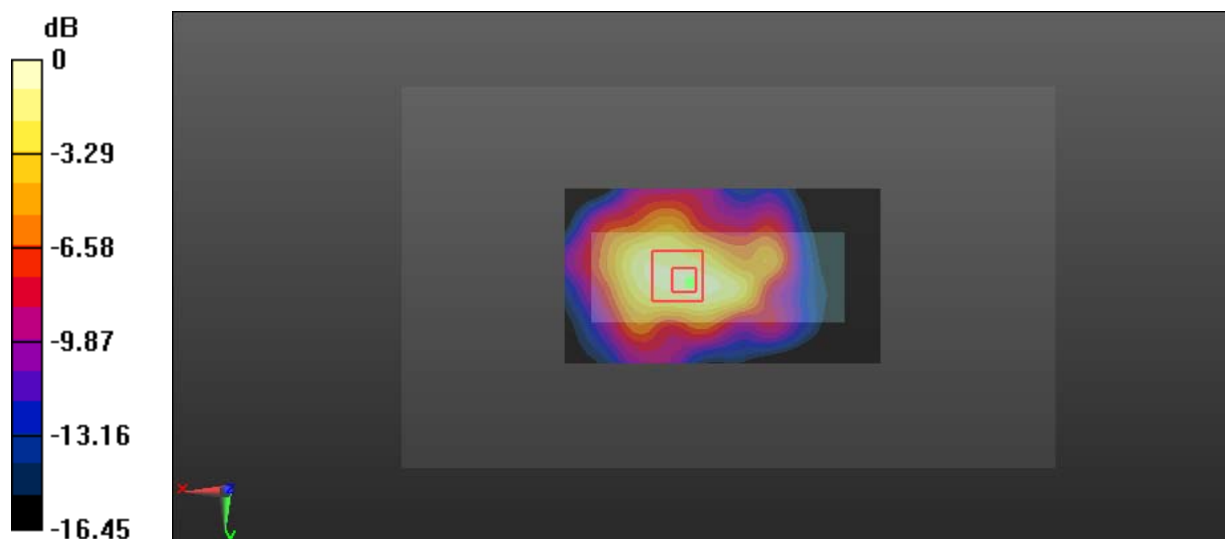
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.53 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.607 W/kg

Maximum value of SAR (measured) = 1.66 W/kg



0 dB = 1.66 W/kg = 2.20 dBW/kg

Test Plot 4#:LoRa 125kHz_Body Front_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_125kHz; Frequency: 914.987 MHz; Duty Cycle: 1:4.13

Medium parameters used: $f = 914.987$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.687$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.571 W/kg

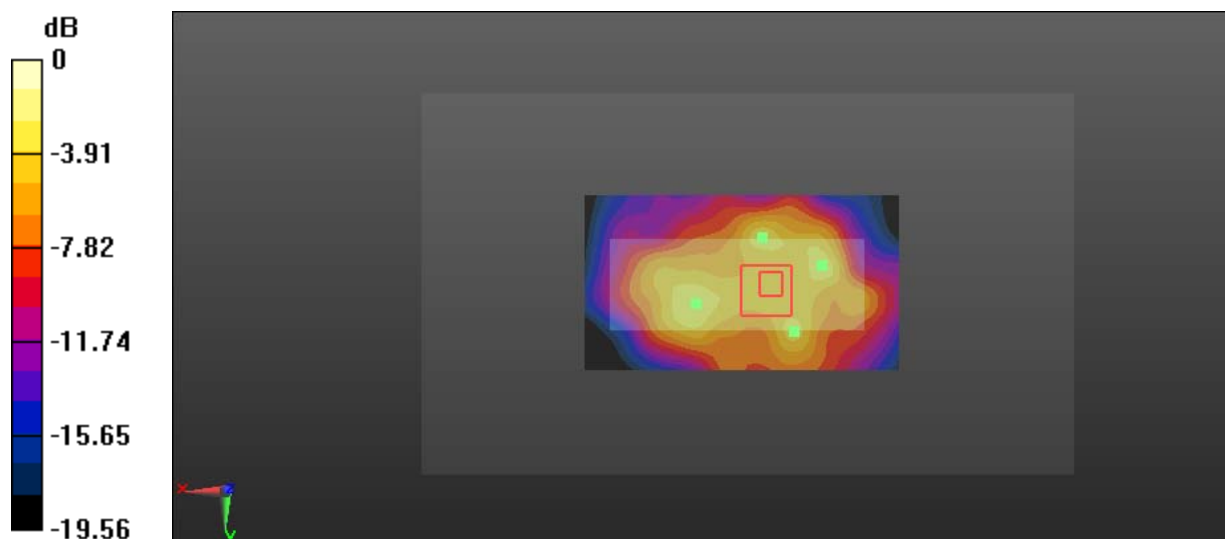
Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.50 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

Test Plot 5#:LoRa 125kHz_Body Left_Low**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_125kHz; Frequency: 902.487 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 902.487$ MHz; $\sigma = 1.014$ S/m; $\epsilon_r = 55.964$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

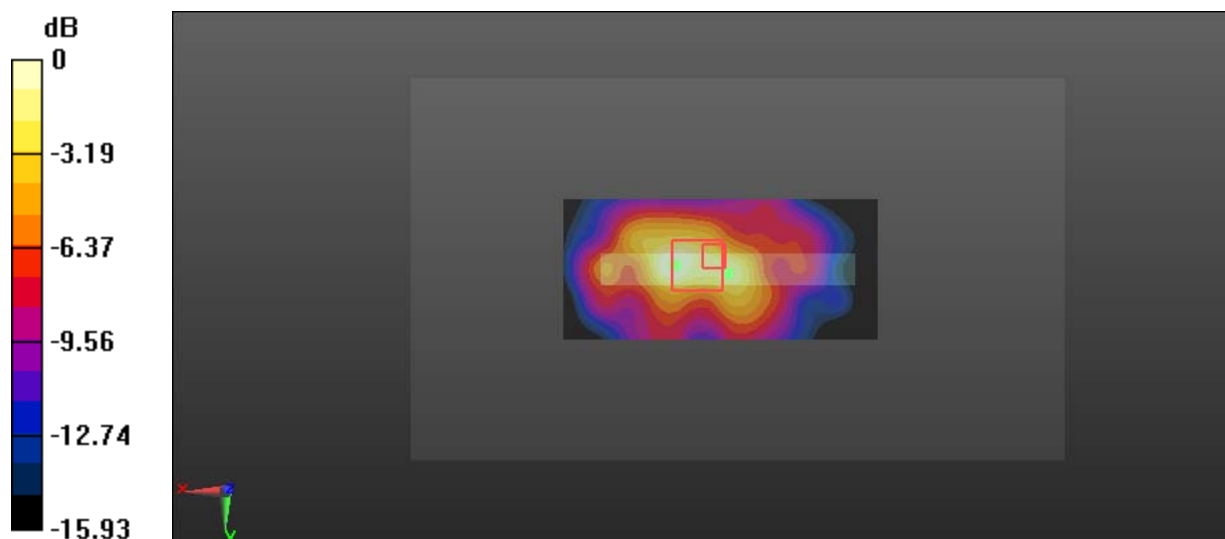
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.53 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.512 W/kg

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

Test Plot 6#:LoRa 125kHz_Body Left_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

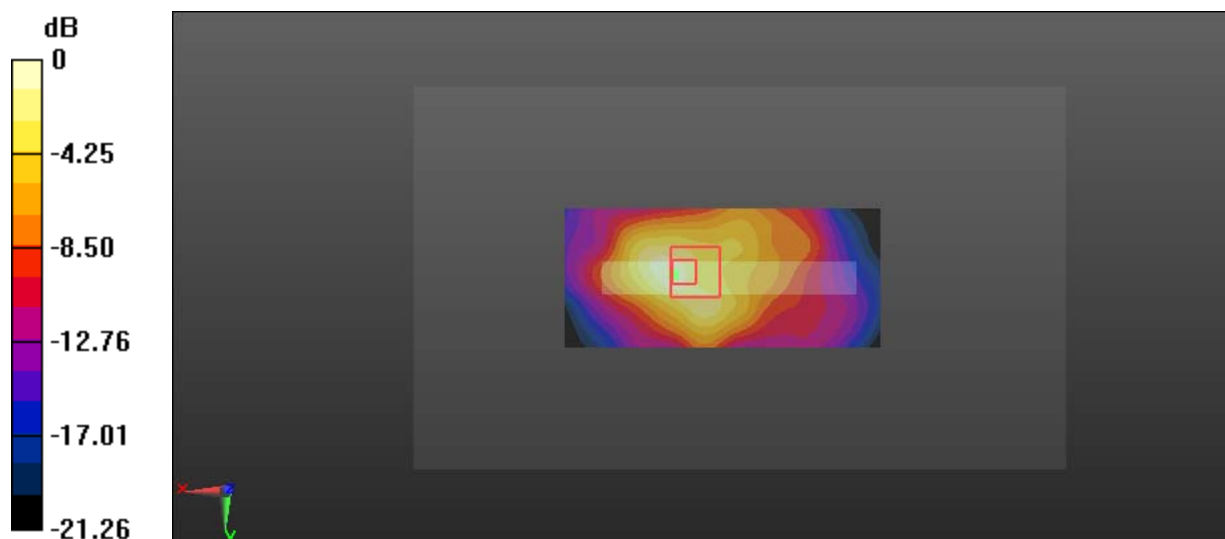
Communication System: LoRa_125kHz; Frequency: 914.987 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 1.48 W/kg **Zoom Scan (8x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 23.30 V/m ; Power Drift = 0.13 dB Peak SAR (extrapolated) = 2.20 W/kg **SAR(1 g) = 0.859 W/kg ; SAR(10 g) = 0.519 W/kg** Maximum value of SAR (measured) = 1.61 W/kg  $0 \text{ dB} = 1.61 \text{ W/kg} = 2.07 \text{ dBW/kg}$

Test Plot 7#:LoRa 125kHz_Body Left_High**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_125kHz; Frequency: 927.487 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 927.487$ MHz; $\sigma = 1.024$ S/m; $\epsilon_r = 55.704$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

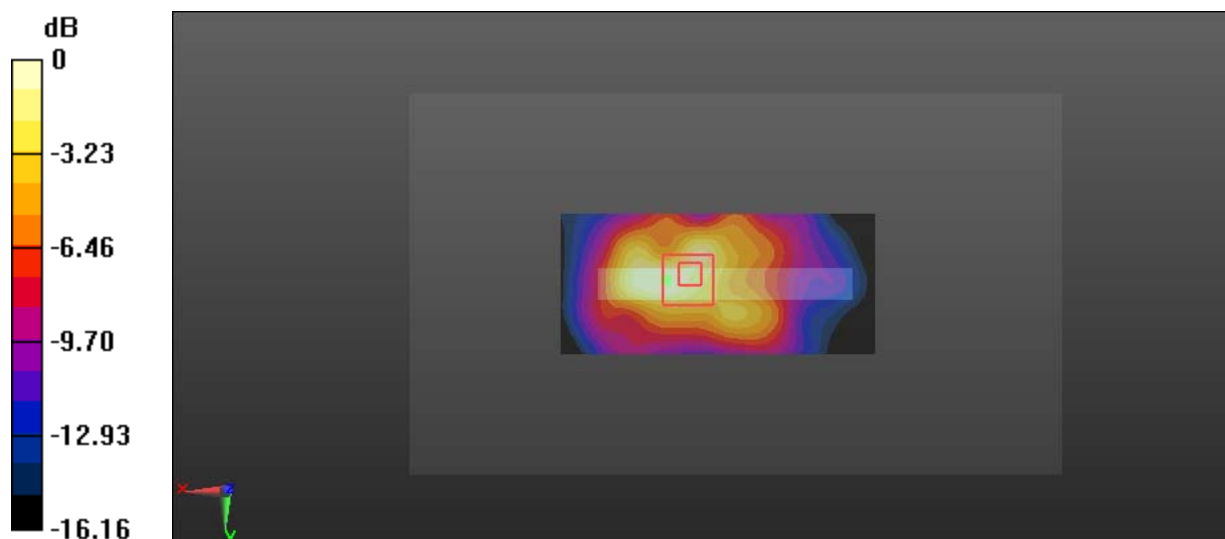
Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.56 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.387 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

Test Plot 8#:LoRa 125kHz_Body Right_Low**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_125kHz; Frequency: 902.487 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 902.487$ MHz; $\sigma = 1.014$ S/m; $\epsilon_r = 55.964$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.97 W/kg

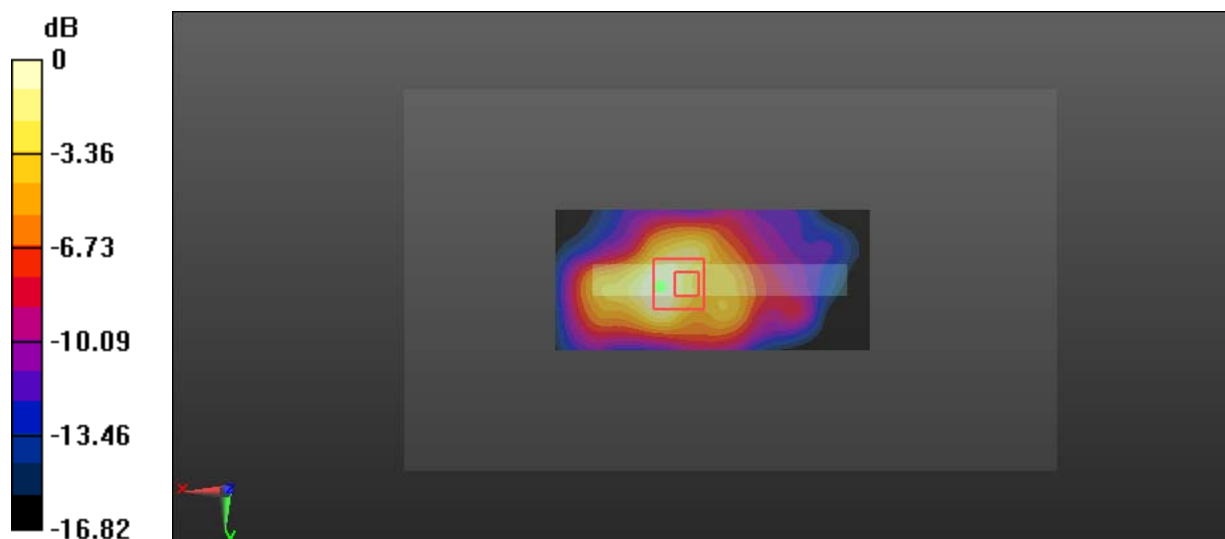
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.41 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.55 W/kg

SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.568 W/kg

Maximum value of SAR (measured) = 1.86 W/kg



0 dB = 1.86 W/kg = 2.70 dBW/kg

Test Plot 9#:LoRa 125kHz_Body Right_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

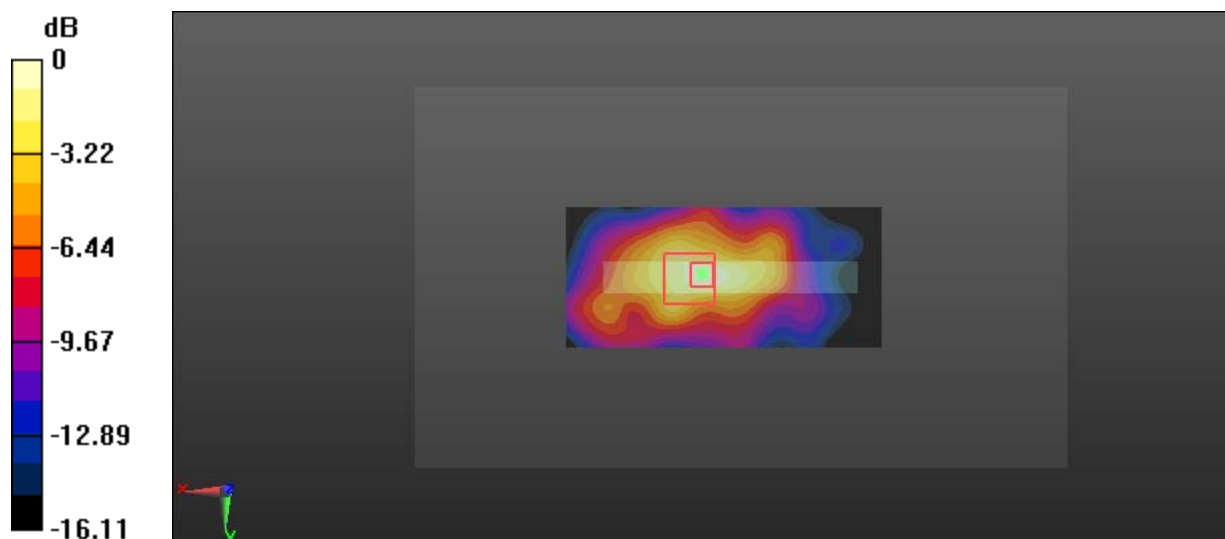
Communication System: LoRa_125kHz; Frequency: 914.987 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 1.98 W/kg **Zoom Scan (6x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 30.40 V/m ; Power Drift = -0.19 dB Peak SAR (extrapolated) = 2.15 W/kg **SAR(1 g) = 0.929 W/kg ; SAR(10 g) = 0.578 W/kg** Maximum value of SAR (measured) = 2.00 W/kg 0 dB = 2.00 W/kg = 3.01 dBW/kg

Test Plot 10#:LoRa 125kHz_Body Right_High**DUT: Radacat C1; Type: C1; Serial: 18011700220**

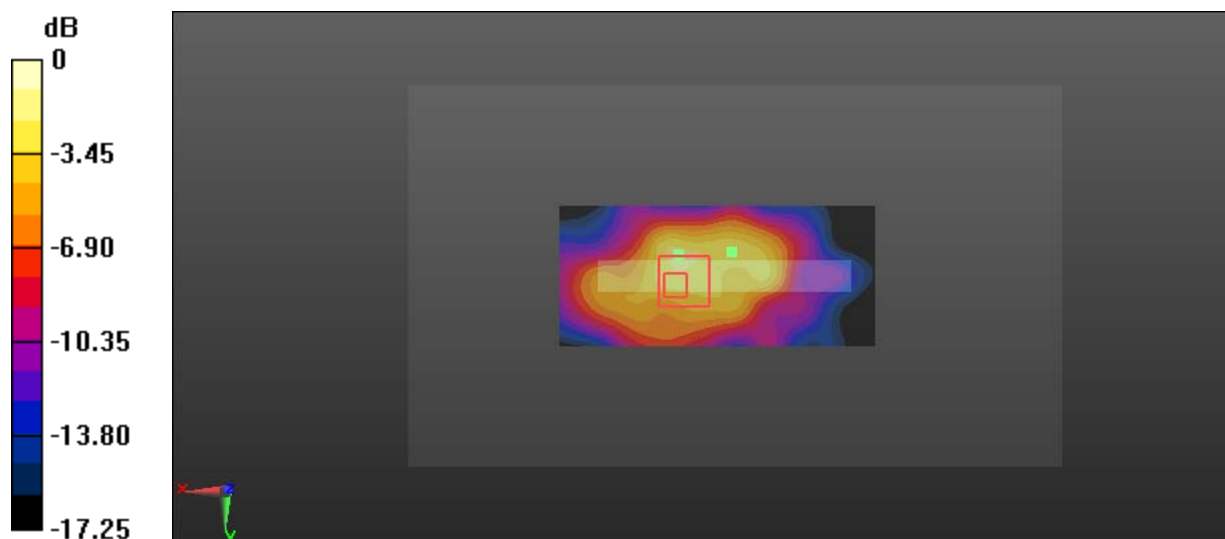
Communication System: LoRa_125kHz; Frequency: 927.487 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 927.487 \text{ MHz}$; $\sigma = 1.024 \text{ S/m}$; $\epsilon_r = 55.704$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 1.10 W/kg **Zoom Scan (6x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 34.94 V/m ; Power Drift = -0.15 dB Peak SAR (extrapolated) = 2.01 W/kg **SAR(1 g) = 0.865 W/kg ; SAR(10 g) = 0.502 W/kg** Maximum value of SAR (measured) = 1.65 W/kg  $0 \text{ dB} = 1.65 \text{ W/kg} = 2.17 \text{ dBW/kg}$

Test Plot 11#:LoRa 125kHz_Body Top_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

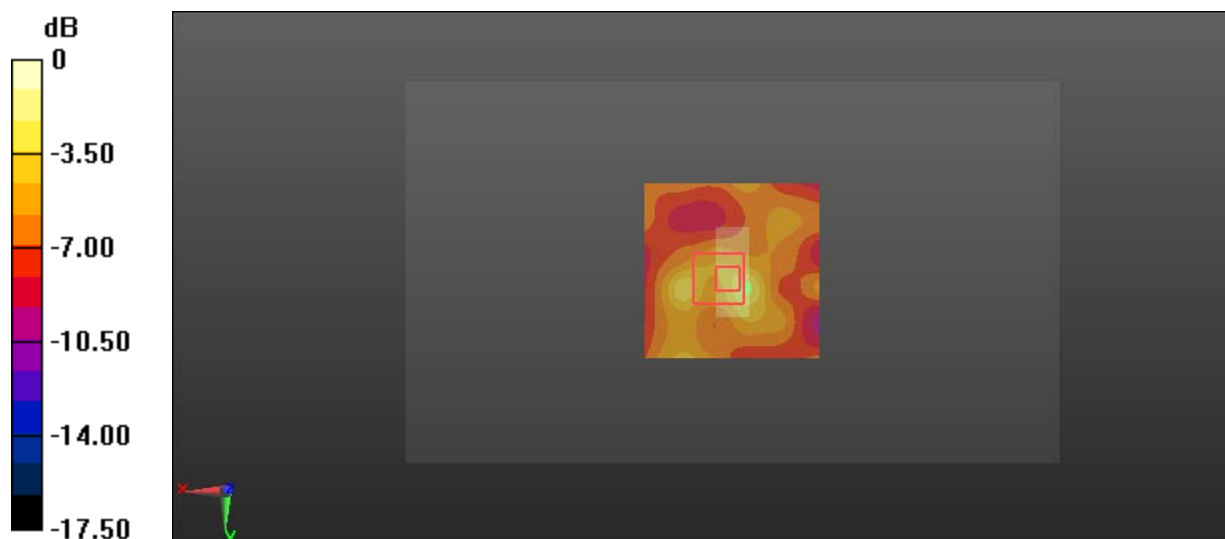
Communication System: LoRa_125kHz; Frequency: 914.987 MHz;Duty Cycle: 1:4.13

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.114 W/kg **Zoom Scan (6x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 12.37 V/m ; Power Drift = -0.16 dB Peak SAR (extrapolated) = 0.243 W/kg **SAR(1 g) = 0.083 W/kg ; SAR(10 g) = 0.041 W/kg** Maximum value of SAR (measured) = 0.183 W/kg 0 dB = 0.183 W/kg = -7.38 dBW/kg

Test Plot 12#:LoRa 250kHz_Body Back_Low**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_250kHz; Frequency: 902.487 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 902.487$ MHz; $\sigma = 1.014$ S/m; $\epsilon_r = 55.964$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.971 W/kg

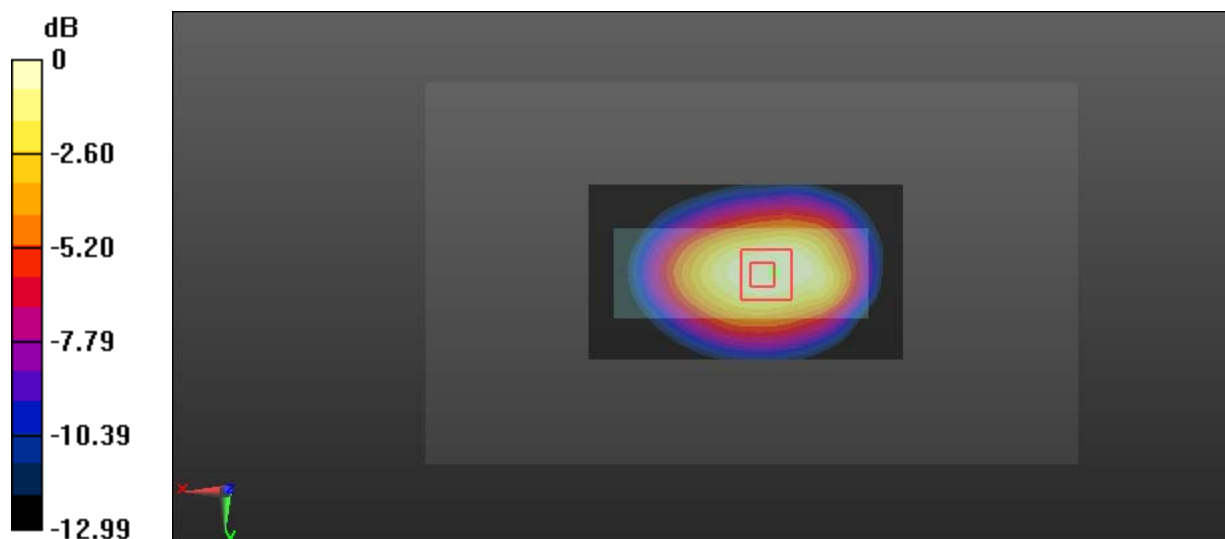
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.03 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.443 W/kg

Maximum value of SAR (measured) = 0.932 W/kg



0 dB = 0.932 W/kg = -0.31 dBW/kg

Test Plot 13#:LoRa 250kHz_Body Back_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

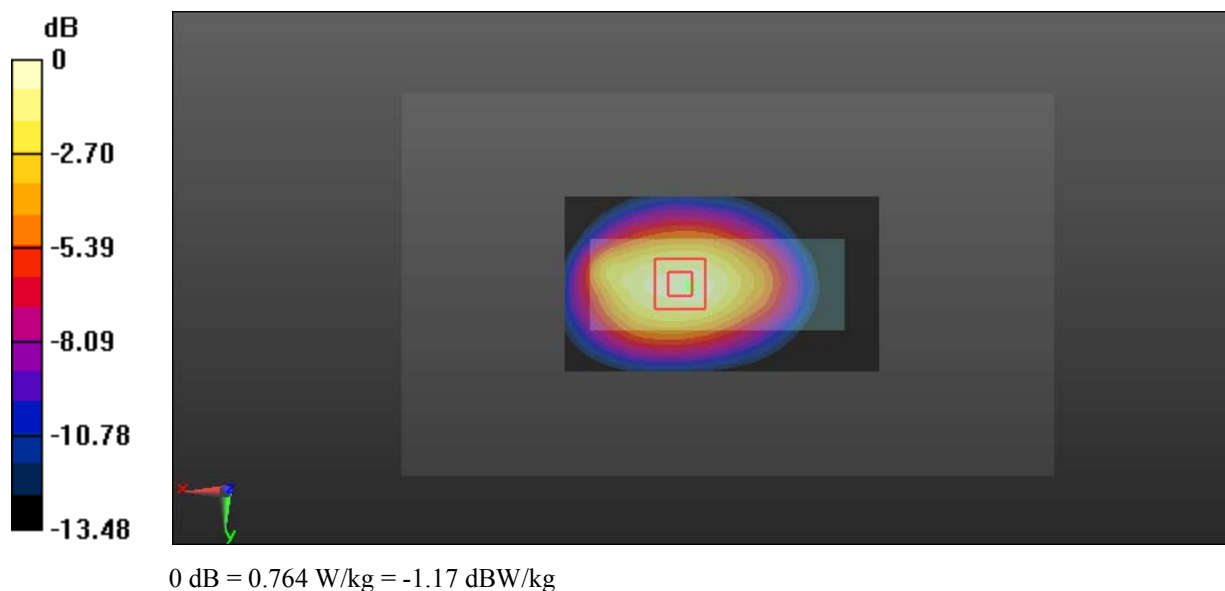
Communication System: LoRa_250kHz; Frequency: 914.987 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.707 W/kg **Zoom Scan (6x6x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 20.70 V/m ; Power Drift = 0.05 dB Peak SAR (extrapolated) = 0.888 W/kg **SAR(1 g) = 0.529 W/kg ; SAR(10 g) = 0.333 W/kg** Maximum value of SAR (measured) = 0.764 W/kg 

Test Plot 14#:LoRa 250kHz_Body Back_High**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_250kHz; Frequency: 927.487 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 927.487$ MHz; $\sigma = 1.024$ S/m; $\epsilon_r = 55.704$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.505 W/kg

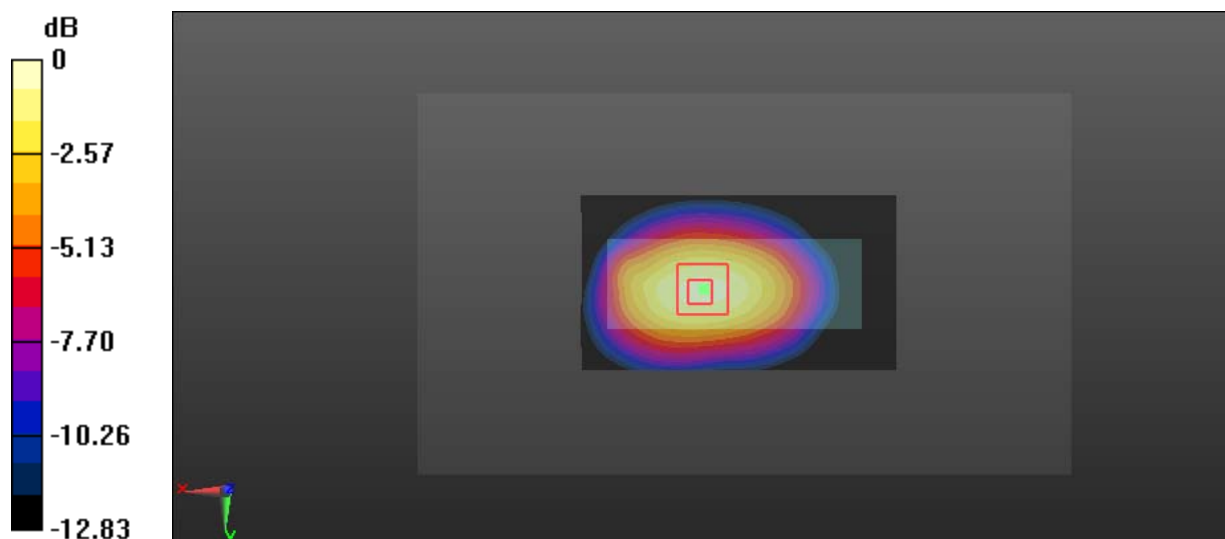
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.39 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.640 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.240 W/kg

Maximum value of SAR (measured) = 0.558 W/kg



0 dB = 0.558 W/kg = -2.53 dBW/kg

Test Plot 15#:LoRa 250kHz_Body Front_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: LoRa_250kHz; Frequency: 914.987 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 914.987$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.687$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.281 W/kg

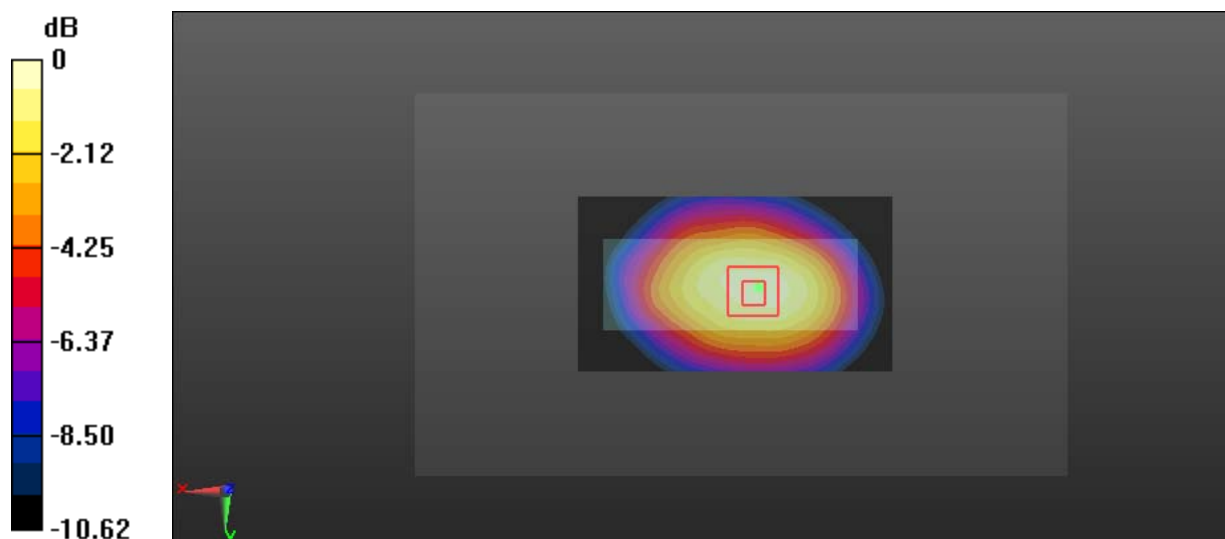
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.26 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.350 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.304 W/kg



0 dB = 0.304 W/kg = -5.17 dBW/kg

Test Plot 16#:LoRa 250kHz_Body Left_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

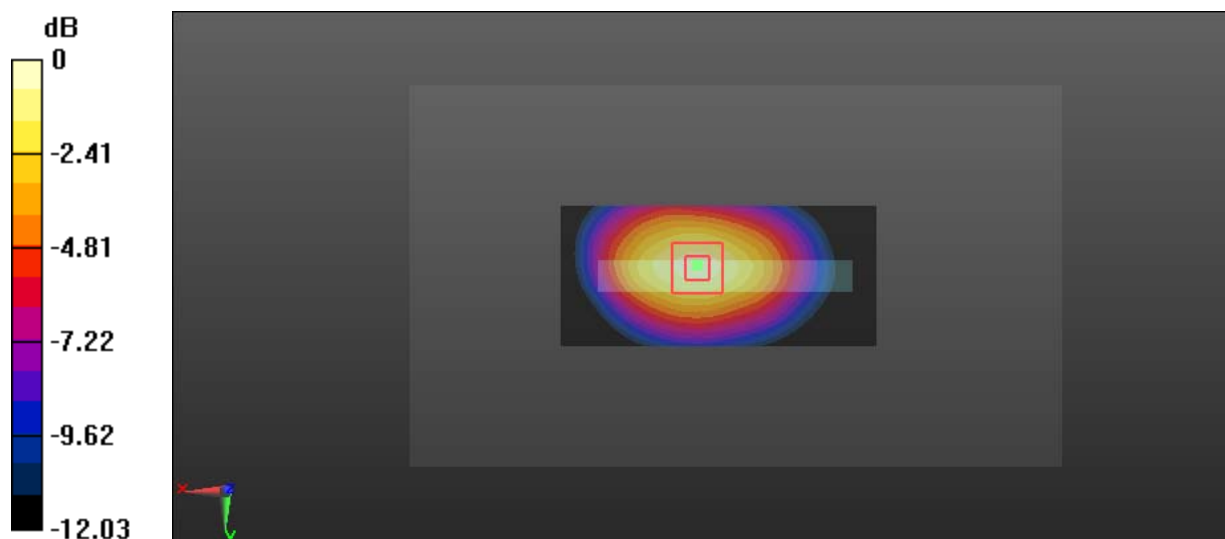
Communication System: LoRa_250kHz; Frequency: 914.987 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.450 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 19.30 V/m ; Power Drift = -0.11 dB Peak SAR (extrapolated) = 0.573 W/kg **SAR(1 g) = 0.326 W/kg ; SAR(10 g) = 0.205 W/kg** Maximum value of SAR (measured) = 0.491 W/kg  $0 \text{ dB} = 0.491 \text{ W/kg} = -3.09 \text{ dBW/kg}$

Test Plot 17#:LoRa 250kHz_Body Right_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

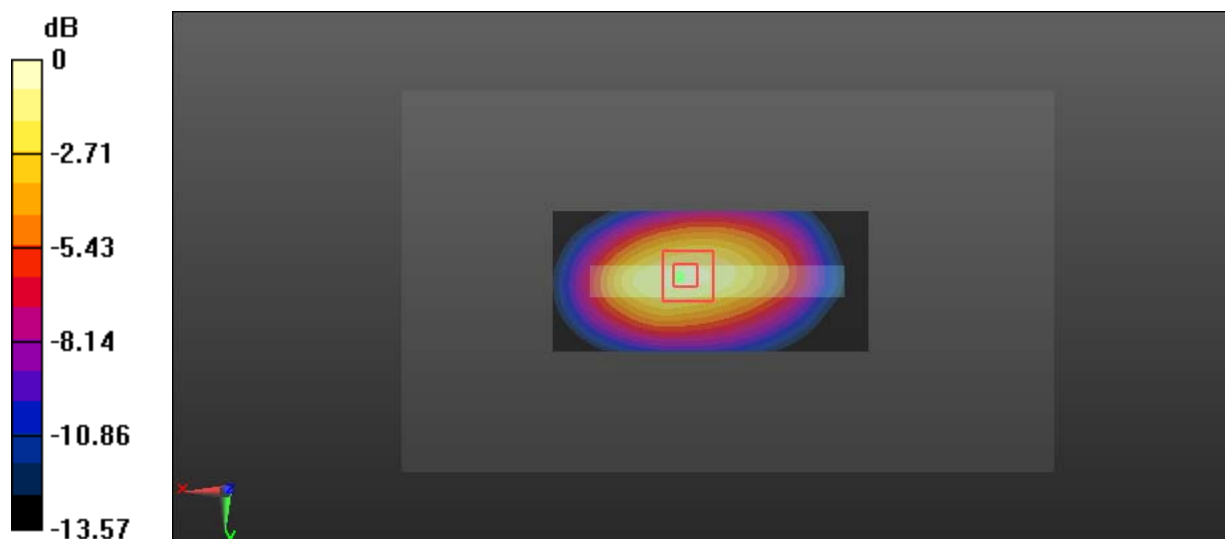
Communication System: LoRa_250kHz; Frequency: 914.987 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.509 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 21.21 V/m ; Power Drift = 0.11 dB Peak SAR (extrapolated) = 0.729 W/kg **SAR(1 g) = 0.382 W/kg ; SAR(10 g) = 0.237 W/kg** Maximum value of SAR (measured) = 0.586 W/kg  $0 \text{ dB} = 0.586 \text{ W/kg} = -2.32 \text{ dBW/kg}$

Test Plot 18#:LoRa 250kHz_Body Top_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

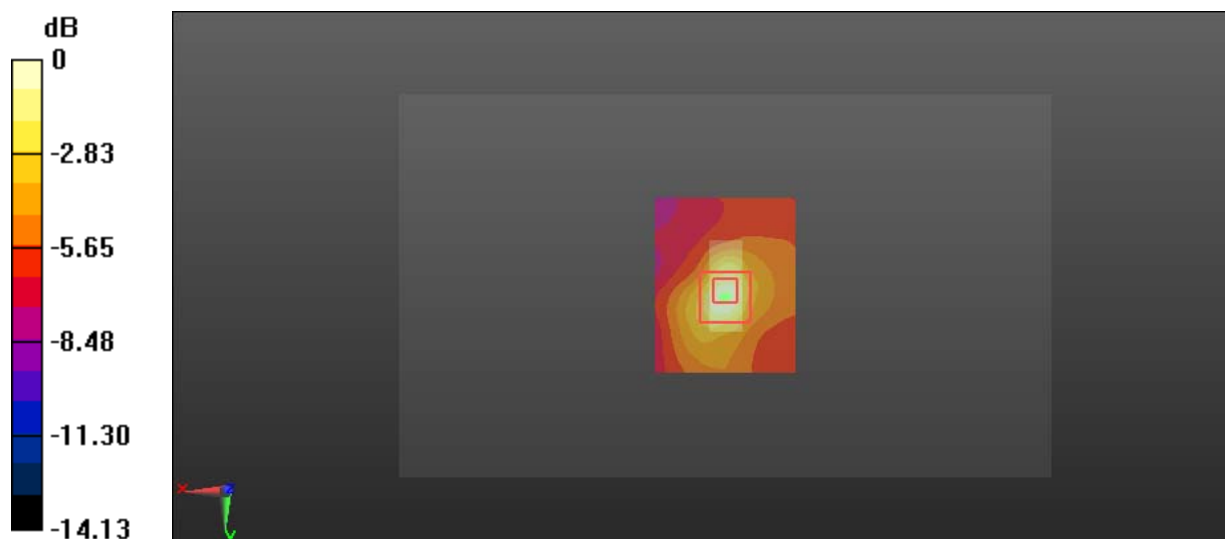
Communication System: LoRa_250kHz; Frequency: 914.987 MHz;Duty Cycle: 1:48.33

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (41x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.0452 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.503 V/m ; Power Drift = -0.09 dB Peak SAR (extrapolated) = 0.0640 W/kg **SAR(1 g) = 0.027 W/kg ; SAR(10 g) = 0.014 W/kg** Maximum value of SAR (measured) = 0.0453 W/kg 0 dB = 0.0453 W/kg = -13.44 dBW/kg

Test Plot 19#:FSK_Body Back_Low**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: FSK; Frequency: 902.487 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 902.487$ MHz; $\sigma = 1.014$ S/m; $\epsilon_r = 55.964$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.935 W/kg

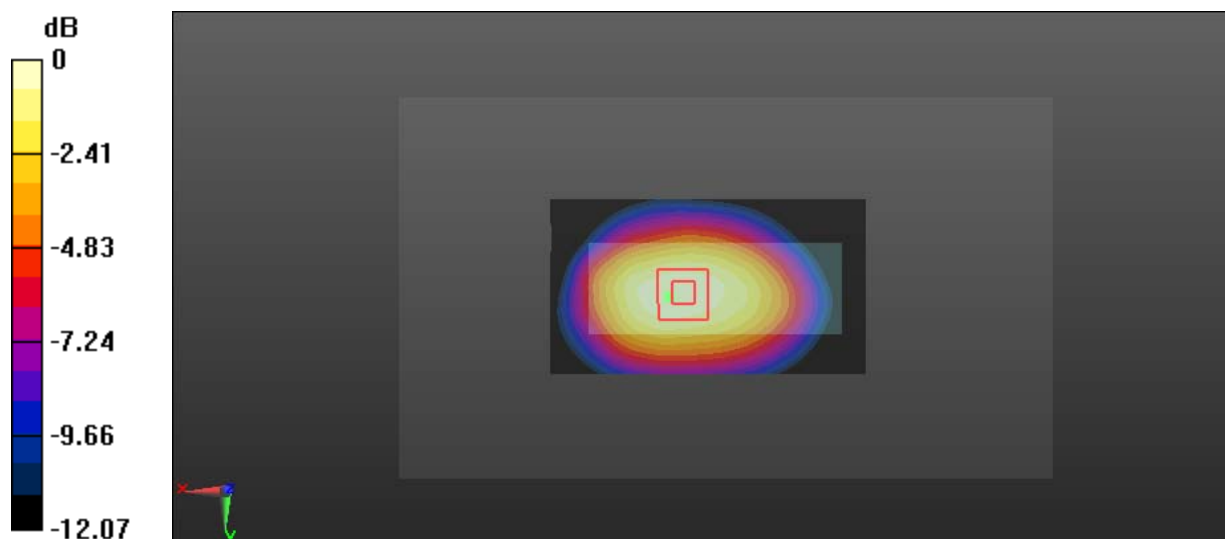
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.91 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.515 W/kg

Maximum value of SAR (measured) = 0.956 W/kg



0 dB = 0.956 W/kg = -0.20 dBW/kg

Test Plot 20#:FSK_Body Back_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: FSK; Frequency: 914.987 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 914.987$ MHz; $\sigma = 1.009$ S/m; $\epsilon_r = 55.76$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.847 W/kg

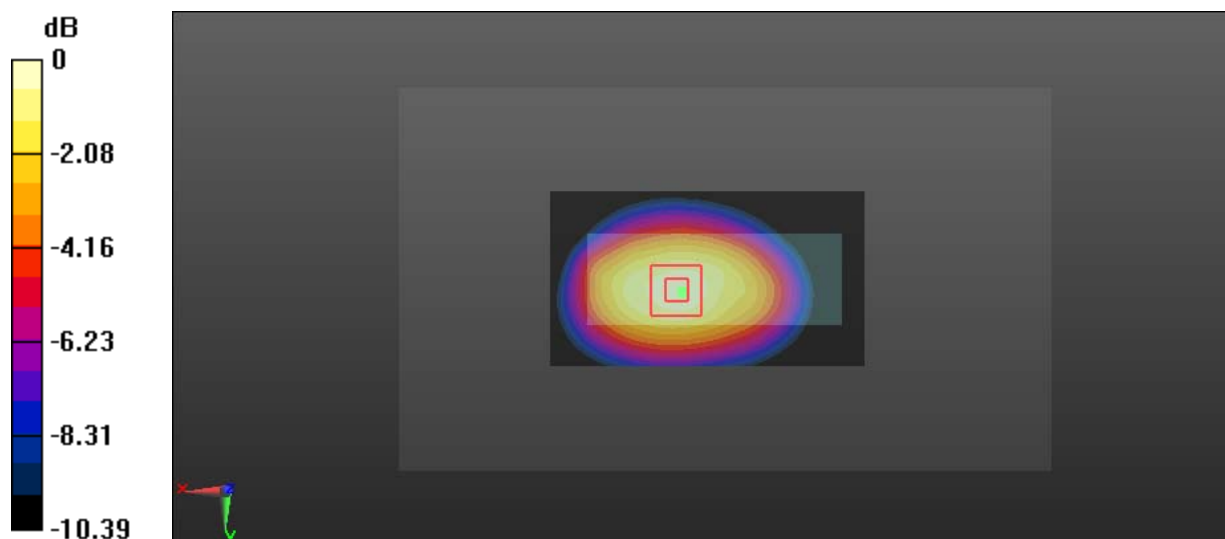
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.52 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.476 W/kg

Maximum value of SAR (measured) = 0.876 W/kg



0 dB = 0.876 W/kg = -0.57 dBW/kg

Test Plot 21#:FSK_Body Back_High**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: FSK; Frequency: 927.487 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 927.487$ MHz; $\sigma = 1.024$ S/m; $\epsilon_r = 55.704$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.735 W/kg

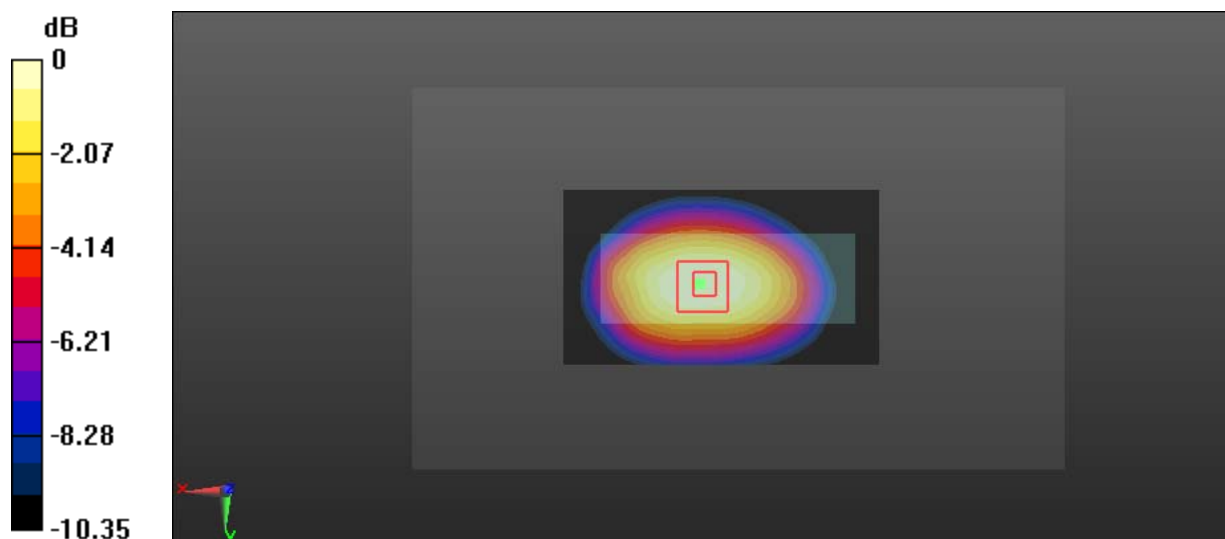
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.15 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.809 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.395 W/kg

Maximum value of SAR (measured) = 0.715 W/kg



0 dB = 0.715 W/kg = -1.46 dBW/kg

Test Plot 22#:FSK_Body Front_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: FSK; Frequency: 914.987 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 914.987$ MHz; $\sigma = 1.028$ S/m; $\epsilon_r = 55.687$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.676 W/kg

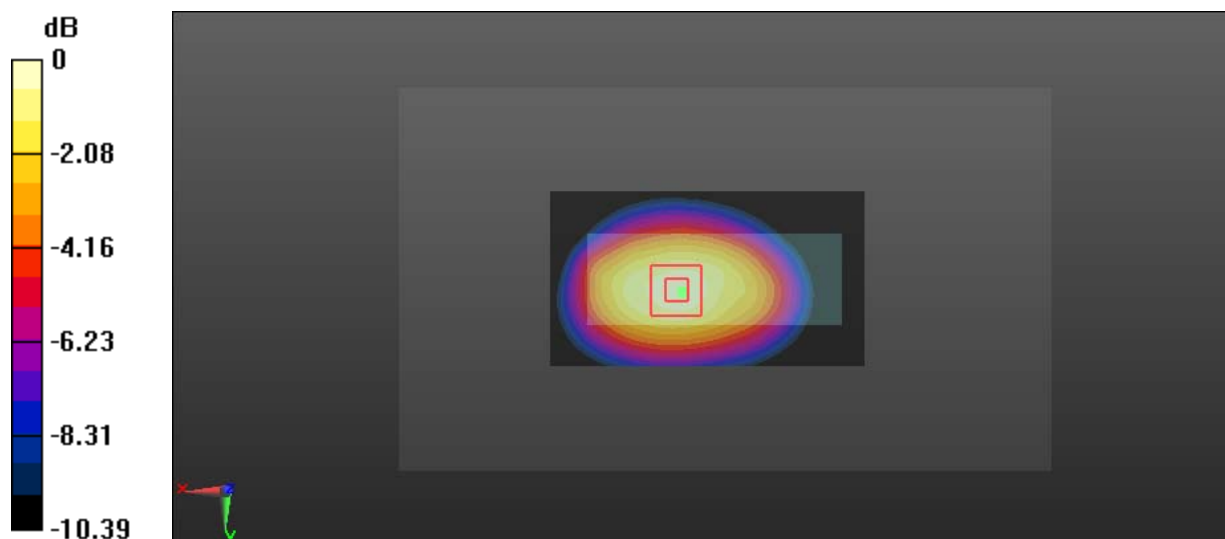
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.52 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.379 W/kg

Maximum value of SAR (measured) = 0.699 W/kg



0 dB = 0.699 W/kg = -1.56 dBW/kg

Test Plot 23#:FSK_Body Left_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: FSK; Frequency: 914.987 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 914.987$ MHz; $\sigma = 1.009$ S/m; $\epsilon_r = 55.76$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.690 W/kg

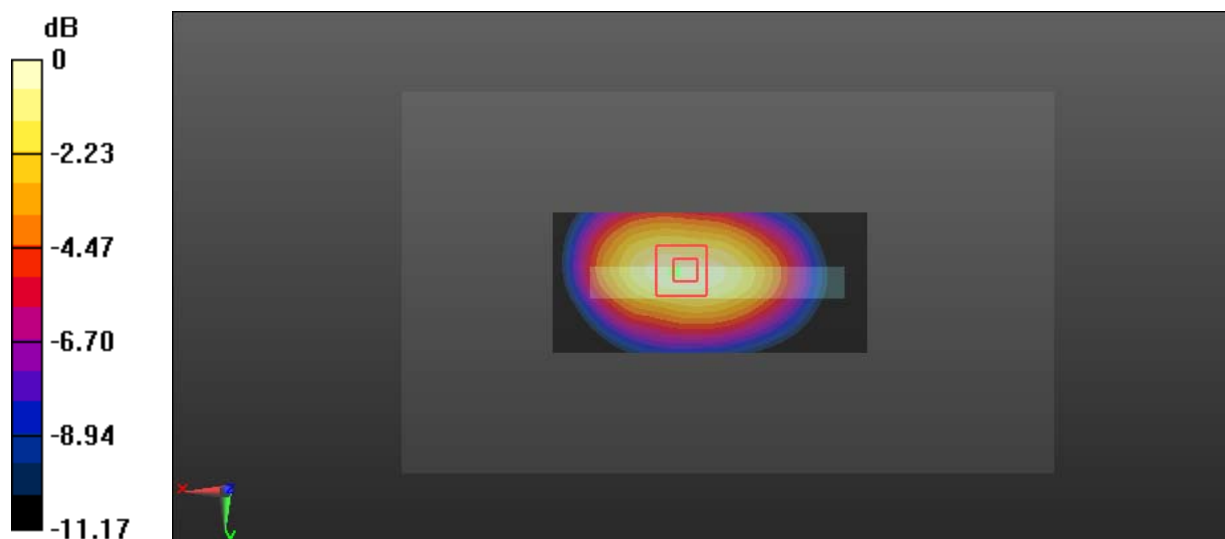
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.78 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.363 W/kg

Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.718 W/kg = -1.44 dBW/kg

Test Plot 24#:FSK_Body Right_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

Communication System: FSK; Frequency: 914.987 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 914.987$ MHz; $\sigma = 1.009$ S/m; $\epsilon_r = 55.76$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (91x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.882 W/kg

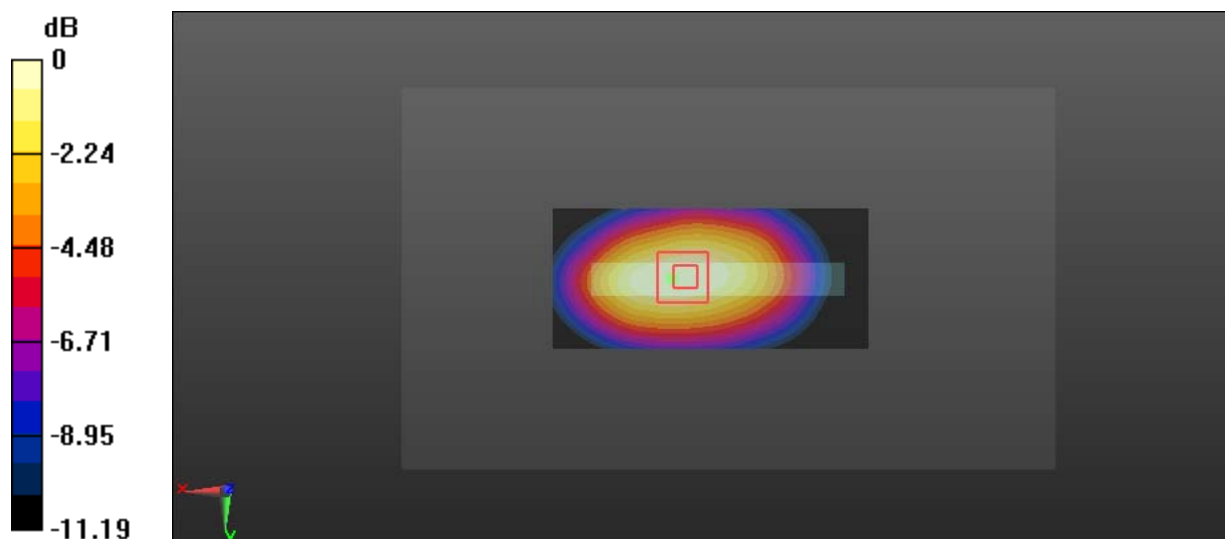
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.33 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.944 W/kg

SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.432 W/kg

Maximum value of SAR (measured) = 0.846 W/kg



0 dB = 0.846 W/kg = -0.73 dBW/kg

Test Plot 25#:FSK_Body Top_Middle**DUT: Radacat C1; Type: C1; Serial: 18011700220**

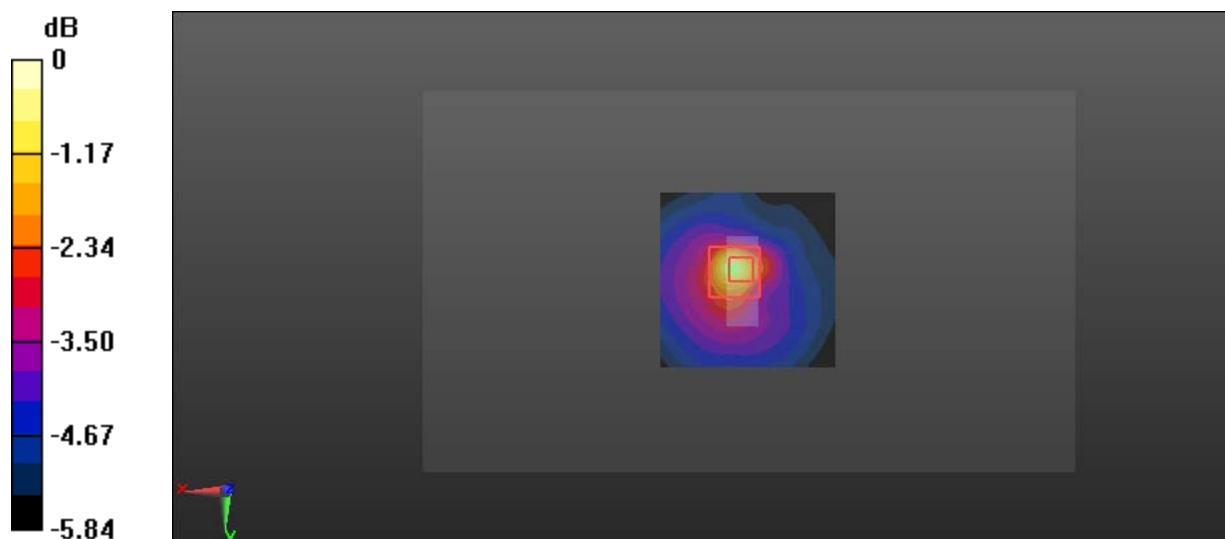
Communication System: FSK; Frequency: 914.987 MHz; Duty Cycle: 1:123.4

Medium parameters used: $f = 914.987 \text{ MHz}$; $\sigma = 1.009 \text{ S/m}$; $\epsilon_r = 55.76$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7431; ConvF(9.86, 9.86, 9.86); Calibrated: 2017/9/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2017/10/9
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (51x51x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.0786 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.038 V/m ; Power Drift = -0.15 dB Peak SAR (extrapolated) = 0.129 W/kg **SAR(1 g) = 0.049 W/kg ; SAR(10 g) = 0.026 W/kg** Maximum value of SAR (measured) = 0.0862 W/kg  $0 \text{ dB} = 0.0862 \text{ W/kg} = -10.64 \text{ dBW/kg}$