

Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 2021/12/28

P01 802.11b_inside of glasses_Ch6

DUT: EUT

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

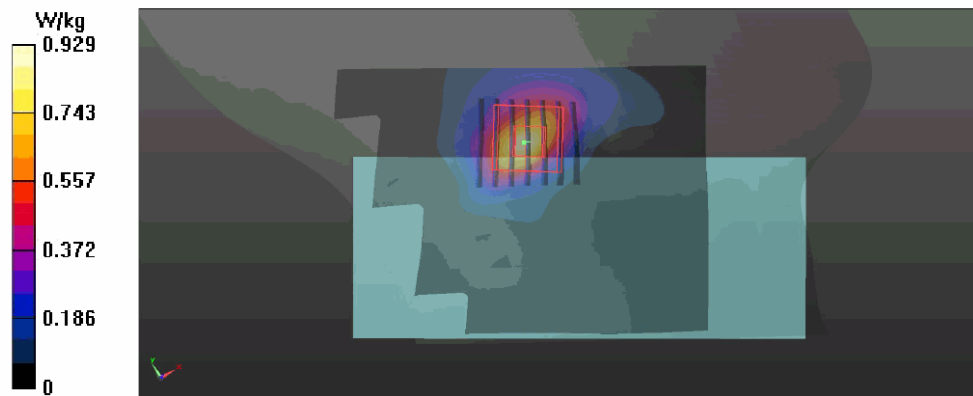
Medium: H2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.8, 7.8, 7.8) @ 2437 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (61x81x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.929 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 2.035 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.258 W/kg
Maximum value of SAR (measured) = 0.854 W/kg



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P02 802.11a_VHT80_inside of glasses_Ch42

DUT: EUT

Communication System: 802.11ac; Frequency: 5210 MHz; Duty Cycle: 1:1

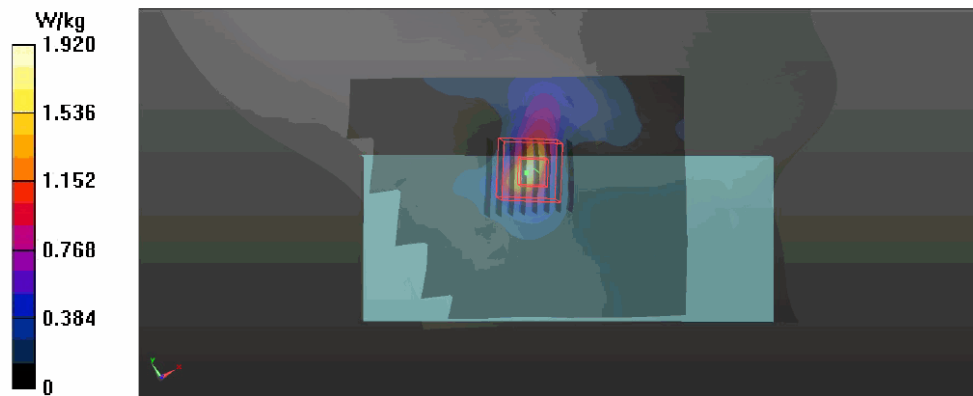
Medium: H5G Medium parameters used: $f = 5210$ MHz; $\sigma = 4.648$ S/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.39, 5.39, 5.39) @ 5210 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.92 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.692 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.30 W/kg
SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.244 W/kg
Maximum value of SAR (measured) = 2.00 W/kg



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P03 802.11a_VHT80_inside of glasses_Ch155

DUT: EUT

Communication System: 802.11ac; Frequency: 5775 MHz; Duty Cycle: 1:1

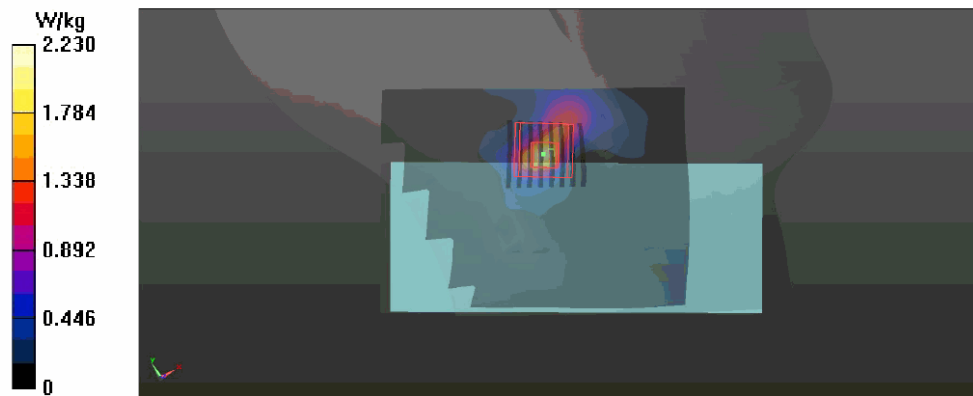
Medium: H5G Medium parameters used: $f = 5775$ MHz; $\sigma = 5.218$ S/m; $\epsilon_r = 34.588$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.23 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.631 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 4.01 W/kg
SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 2.52 W/kg



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P04 SDR-2.4G_3Mbps_inside of glasses_Ch High_Antenna 1_Degree 120

DUT: EUT

Communication System: SDR; Frequency: 2461.5 MHz; Duty Cycle: 1:1
Medium: H2450 Medium parameters used: $f = 2461.5$ MHz; $\sigma = 1.837$ S/m; $\epsilon_r = 37.97$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.8, 7.8, 7.8) @ 2461.5 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.695 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.442 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.792 W/kg
SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.307 W/kg
Maximum value of SAR (measured) = 0.677 W/kg

