

SAR Plots of SAR Measurement

Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/4/2020

P01 GSM850_GPRS11_Right Cheek_Ch190

DUT: EUT

Communication System: GPRS11; Frequency: 836.6 MHz; Duty Cycle: 1:2.67

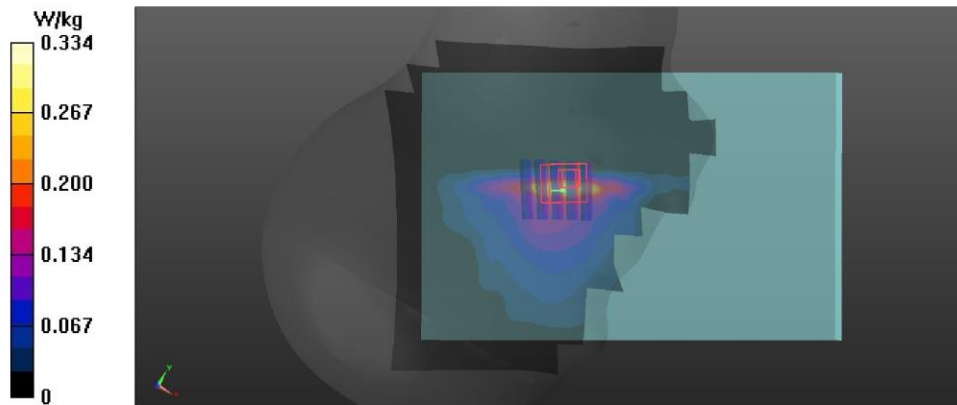
Medium: H835 Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.922 \text{ S/m}$; $\epsilon_r = 40.865$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.2, 10.2, 10.2) @ 836.6 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.334 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.822 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.171 W/kg
SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.103 W/kg
Maximum value of SAR (measured) = 0.157 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/5/2020

P02 GSM1900_GPRS11_Left Cheek_Ch810

DUT: EUT

Communication System: UID 0, GPRS11; Frequency: 1909 MHz; Duty Cycle: 1:2.67

Medium: H1900 Medium parameters used: $f = 1909$ MHz; $\sigma = 1.461$ S/m; $\epsilon_r = 39.26$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.42, 8.42, 8.42) @ 1909 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0423 W/kg

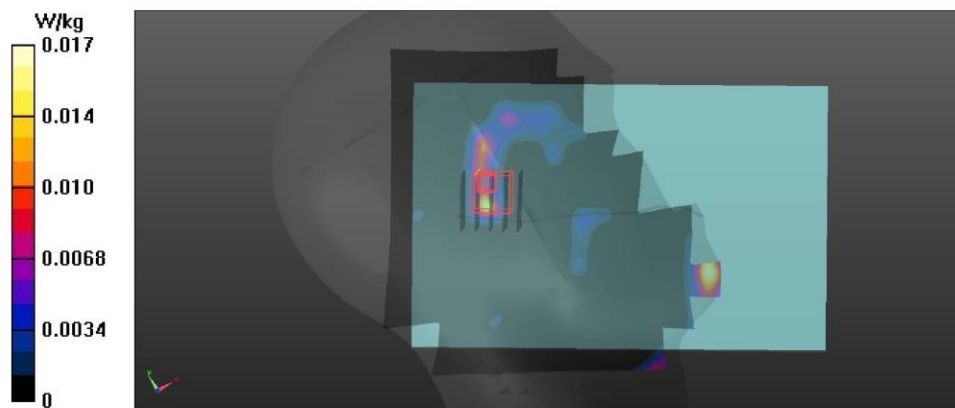
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.552 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00843 W/kg

Maximum value of SAR (measured) = 0.0170 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/5/2020

P03 WCDMA II_RMC12.2k_Left Tilted_Ch9400

DUT: EUT

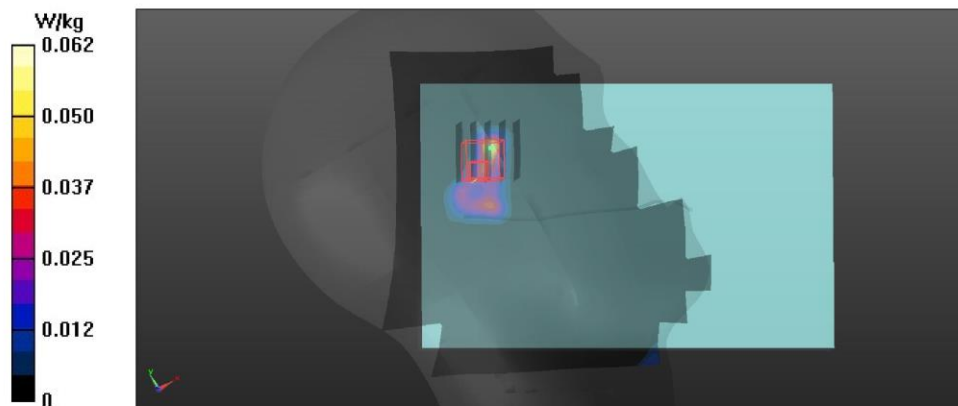
Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: H1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.444$ S/m; $\epsilon_r = 39.278$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0620 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.252 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.0310 W/kg
SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00886 W/kg
Maximum value of SAR (measured) = 0.0248 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/6/2020

P04 WCDMA IV_RMC12.2k_Right Cheek_Ch1413

DUT: EUT

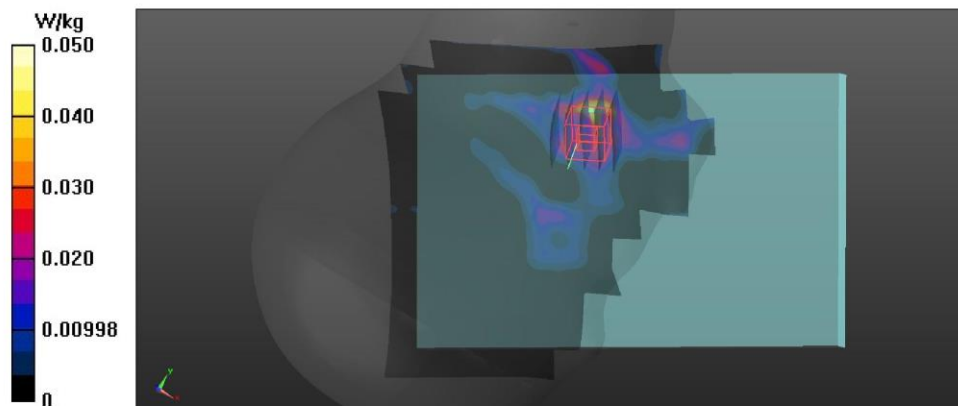
Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium: H1750 Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.366 \text{ S/m}$; $\epsilon_r = 39.502$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.73, 8.73, 8.73) @ 1732.6 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0499 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.453 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.0280 W/kg
SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.013 W/kg
Maximum value of SAR (measured) = 0.0242 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/4/2020

P05 WCDMA V_RMC12.2k_Right Cheek_Ch4233

DUT: EUT

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

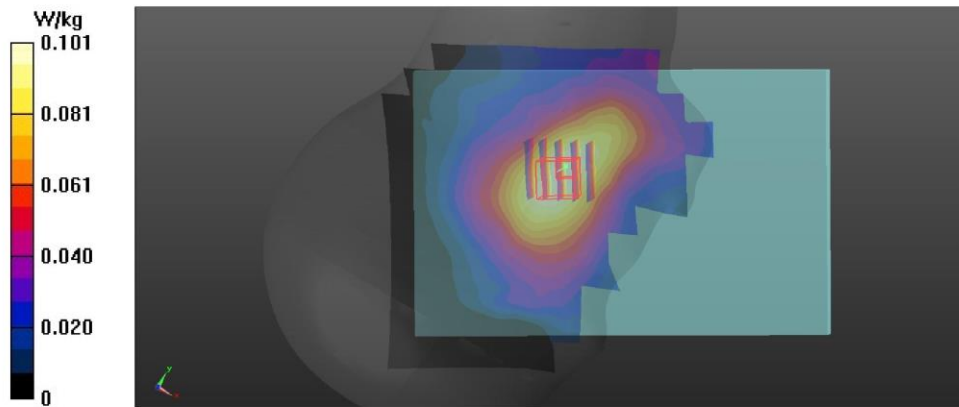
Medium: H835 Medium parameters used: $f = 847 \text{ MHz}$; $\sigma = 0.927 \text{ S/m}$; $\epsilon_r = 40.848$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.2, 10.2, 10.2) @ 846.6 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.101 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.493 V/m ; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.113 W/kg
SAR(1 g) = 0.088 W/kg ; SAR(10 g) = 0.068 W/kg
Maximum value of SAR (measured) = 0.105 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/5/2020

P06 LTE 2_QPSK20M_Left Tilted_Ch18900_1RB_OS50

DUT: EUT

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

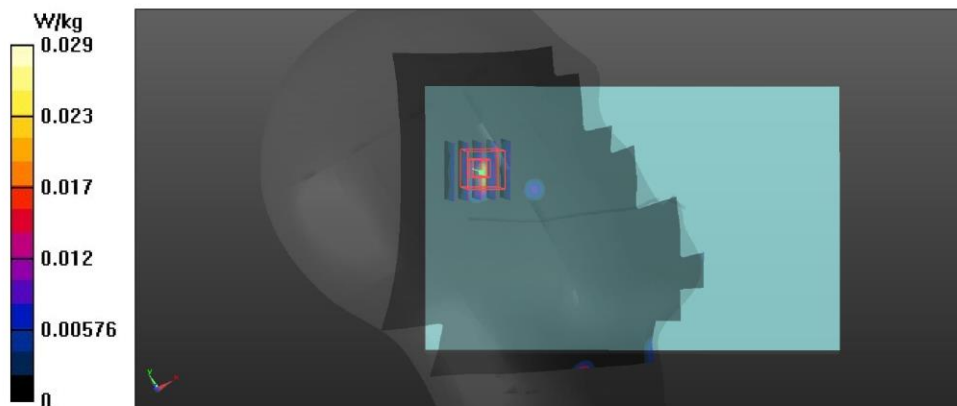
Medium: H1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.444$ S/m; $\epsilon_r = 39.278$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0288 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.381 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.0240 W/kg
SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.00866 W/kg
Maximum value of SAR (measured) = 0.0205 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/6/2020

P07 LTE 4_QPSK20M_Right Cheek_Ch20300_1RB_OS50

DUT: EUT

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

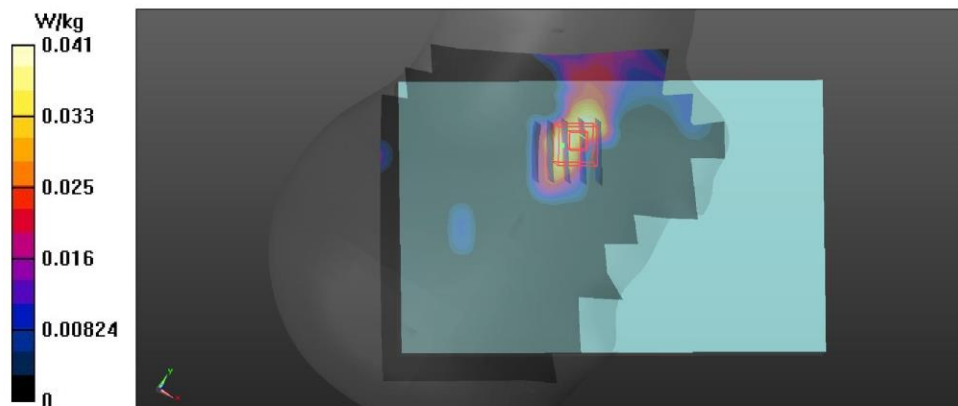
Medium: H1750 Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.372 \text{ S/m}$; $\epsilon_r = 39.481$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.73, 8.73, 8.73) @ 1745 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0412 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.457 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.0420 W/kg
SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.019 W/kg
Maximum value of SAR (measured) = 0.0362 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/4/2020

P08 LTE 5_QPSK10M_Right Cheek_Ch20600_1RB_OS49

DUT: EUT

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

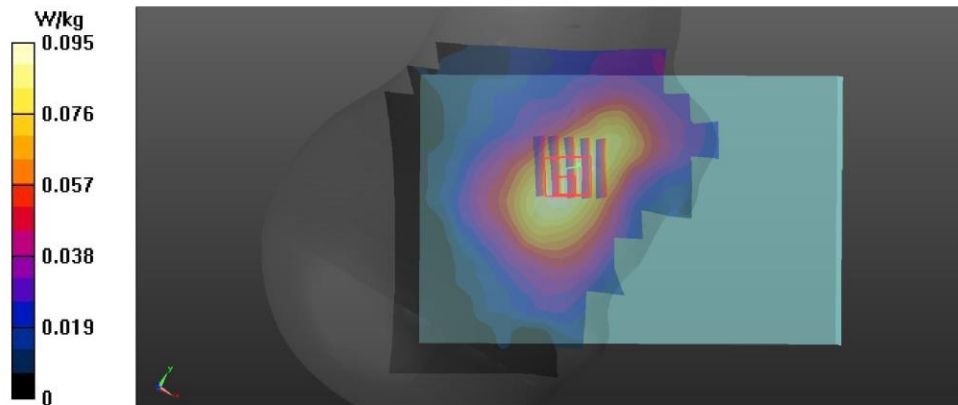
Medium: H835 Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 40.853$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.2, 10.2, 10.2) @ 844 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0946 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.366 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.103 W/kg
SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.062 W/kg
Maximum value of SAR (measured) = 0.0949 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/7/2020

P09 LTE 7_QPSK20M_Left Cheek_Ch21350_1RB_OS99

DUT: EUT

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

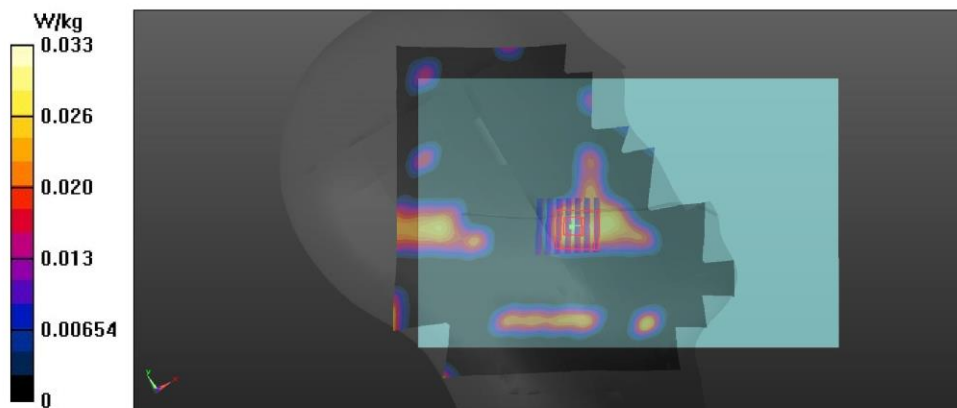
Medium: H2600 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.917$ S/m; $\epsilon_r = 37.76$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.39, 7.39, 7.39) @ 2560 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (151x221x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0327 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.8180 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.156 W/kg
SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00352
Maximum value of SAR (measured) = 0.156 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/3/2020

P10 LTE 12_QPSK10M_Left Cheek_Ch23130_1RB_OS0

DUT: EUT

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

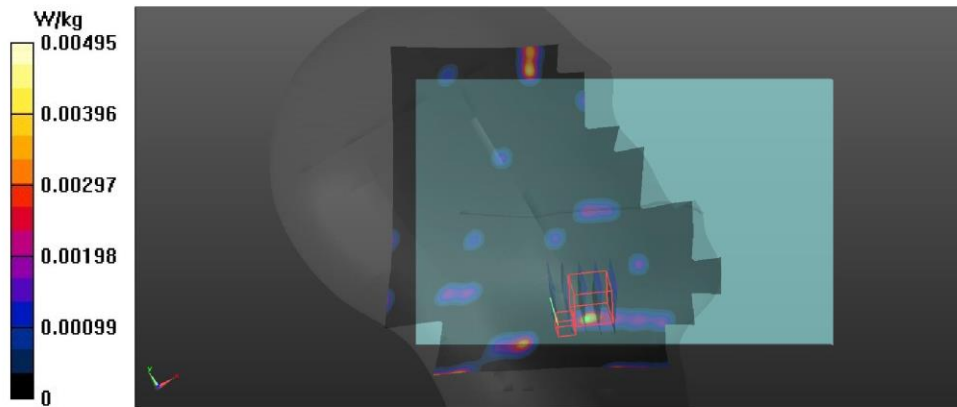
Medium: H750 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.877 \text{ S/m}$; $\epsilon_r = 41.202$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.34, 10.34, 10.34) @ 711 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.00495 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.420 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.00237 W/kg
SAR(1 g) = 0.000625 W/kg; SAR(10 g) = 7.91e-005 W/kg
Maximum value of SAR (measured) = 0.00218 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/3/2020

P11 LTE 13_QPSK10M_Left Cheek_Ch23230_1RB_OS24

DUT: EUT

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

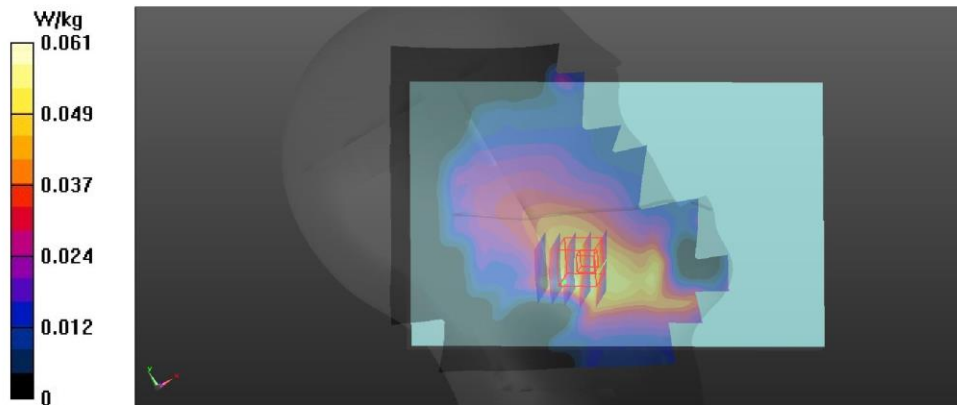
Medium: H750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 40.983$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.34, 10.34, 10.34) @ 782 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0610 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.291 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0530 W/kg
SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.0505 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/3/2020

P12 LTE 14_QPSK10M_Left Cheek_Ch23330_1RB_OS24

DUT: EUT

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

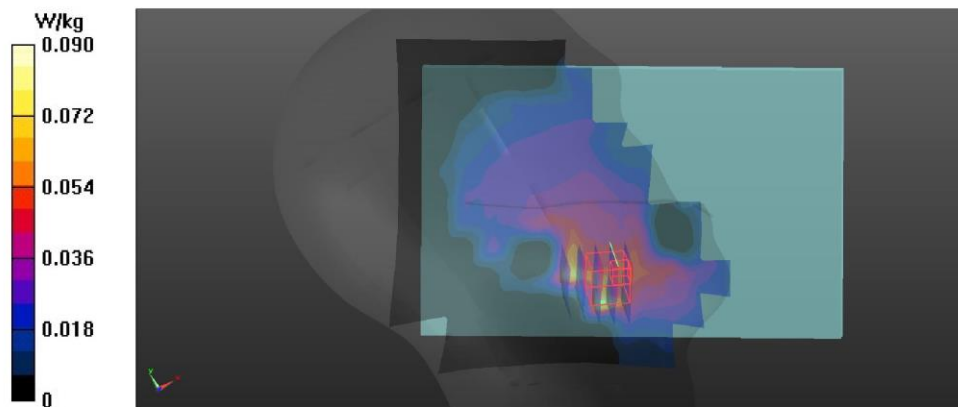
Medium: H750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 40.983$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.34, 10.34, 10.34) @ 782 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0901 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.731 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.0530 W/kg
SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.032 W/kg
Maximum value of SAR (measured) = 0.0505 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/3/2020

P13 LTE 17_QPSK10M_Left Cheek_Ch23800_1RB_OS0

DUT: EUT

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

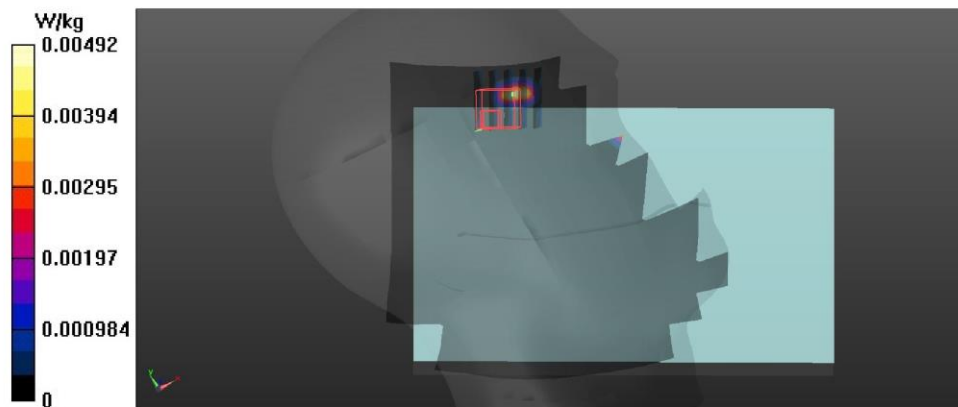
Medium: H750 Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.877 \text{ S/m}$; $\epsilon_r = 41.202$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.34, 10.34, 10.34) @ 711 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.00492 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 0.9670 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.00258 W/kg
SAR(1 g) = 1.57e-005 W/kg; SAR(10 g) = 1.9e-006 W/kg
Maximum value of SAR (measured) = 0.00253 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/5/2020

P14 LTE 25_QPSK20M_Left Tilted_Ch26365_1RB_OS99

DUT: EUT

Communication System: LTE; Frequency: 1882.5 MHz; Duty Cycle: 1:1

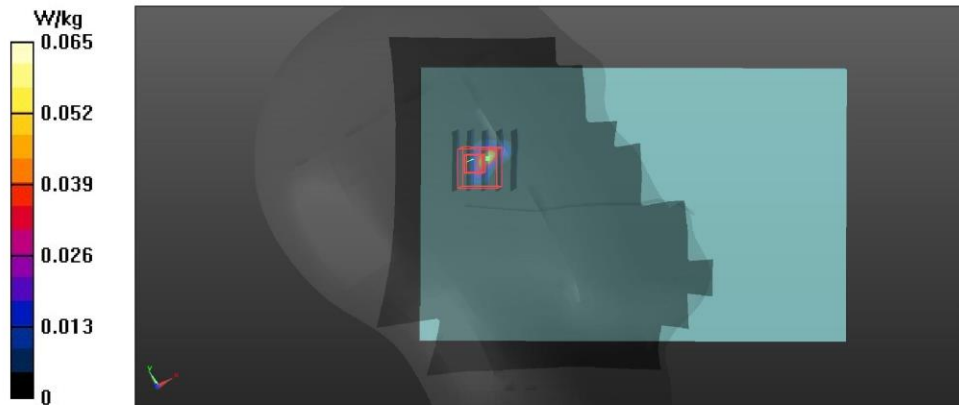
Medium: H1900 Medium parameters used: $f = 1882.5$ MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 39.277$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8.42, 8.42, 8.42) @ 1882.5 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0650 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.273 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.0370 W/kg
SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00836 W/kg
Maximum value of SAR (measured) = 0.0209 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/4/2020

P15 LTE 26_QPSK15M_Right Cheek_Ch26965_1RB_OS74

DUT: EUT

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

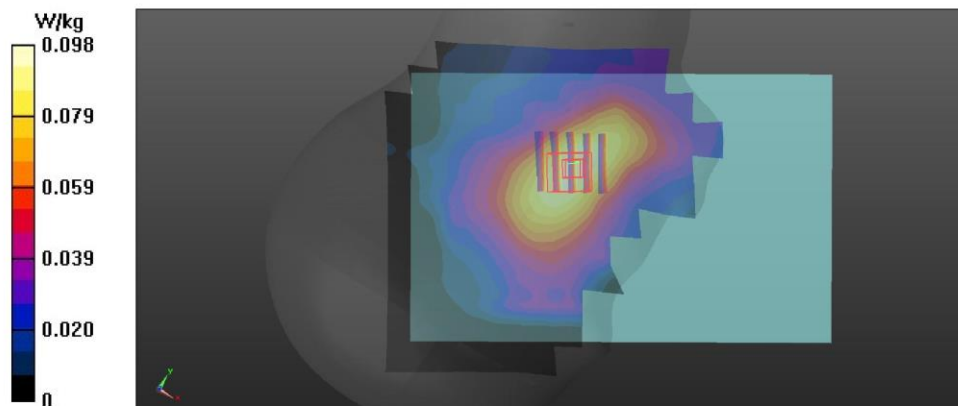
Medium: H835 Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 40.865$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(10.2, 10.2, 10.2) @ 841.5 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (121x171x1):** Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0984 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 5.992 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.107 W/kg
SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.063 W/kg
Maximum value of SAR (measured) = 0.0983 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/8/2020

P16 LTE 30_QPSK10M_Right Cheek_Ch27710_1RB_OS49

DUT: EUT

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: H2300 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.727$ S/m; $\epsilon_r = 38.061$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8, 8, 8) @ 2310 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (151x221x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0684 W/kg

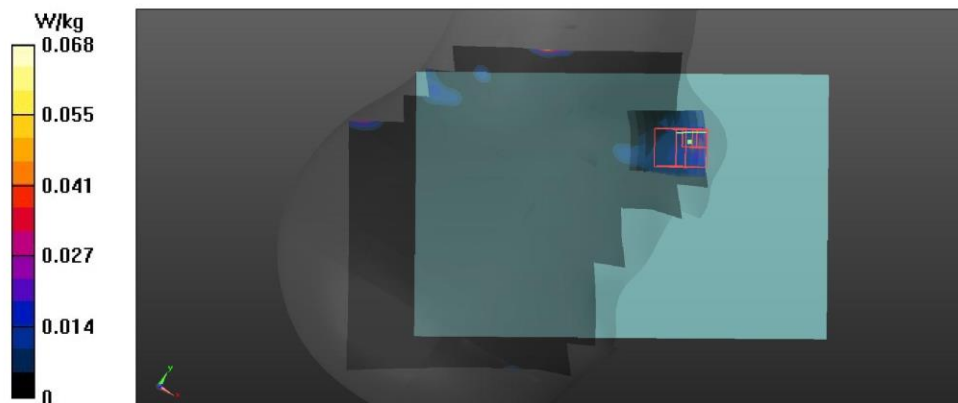
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.822 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0350 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0200 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/7/2020

P17 LTE 38_QPSK20M_Right Tilted_Ch38150_1RB_OS50

DUT: EUT

Communication System: LTE; Frequency: 2610 MHz; Duty Cycle: 1:1.58

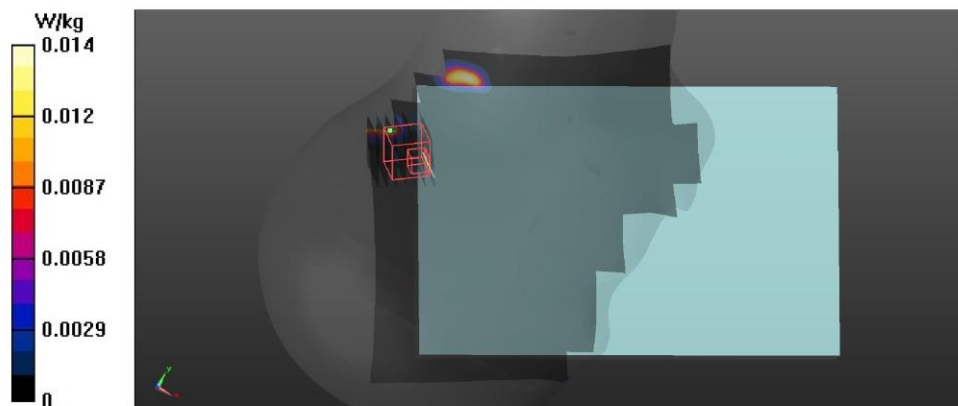
Medium: H2600 Medium parameters used: $f = 2610$ MHz; $\sigma = 1.954$ S/m; $\epsilon_r = 37.677$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.39, 7.39, 7.39) @ 2610 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (151x221x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.0145 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 1.019 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.0110 W/kg
SAR(1 g) = 0.00323 W/kg; SAR(10 g) = 0.00109 W/kg
Maximum value of SAR (measured) = 0.00628 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/8/2020

P18 LTE 40_QPSK20M_Right Cheek_Ch38750_1RB_OS99

DUT: EUT

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1.58

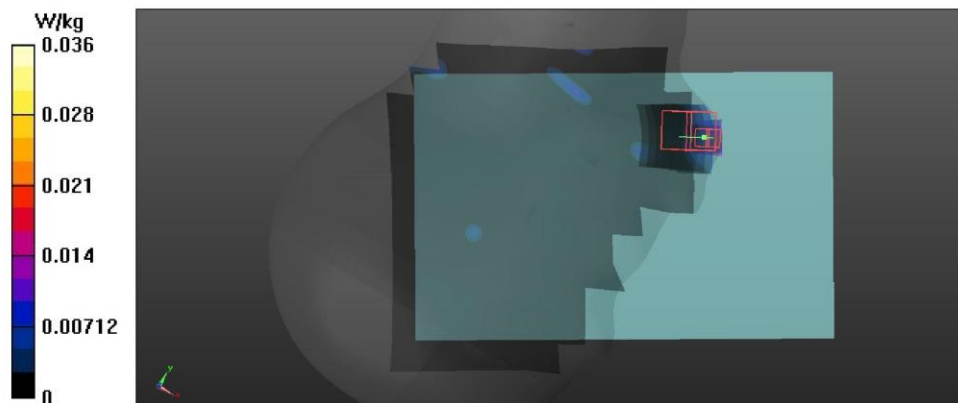
Medium: H2300 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.727$ S/m; $\epsilon_r = 38.061$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(8, 8, 8) @ 2310 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (151x221x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.0356 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 0.6360 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.0150 W/kg
SAR(1 g) = 0.0081 W/kg; SAR(10 g) = 0.00332 W/kg
Maximum value of SAR (measured) = 0.0109 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 9/7/2020

P19 LTE 41_QPSK20M_Left Cheek_Ch41490_1RB_OS0

DUT: EUT

Communication System: LTE; Frequency: 2680 MHz; Duty Cycle: 1:1.58

Medium: H2600 Medium parameters used: $f = 2680$ MHz; $\sigma = 2.008$ S/m; $\epsilon_r = 37.583$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.39, 7.39, 7.39) @ 2680 MHz; Calibrated: 5/29/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 5/27/2020
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

- **Area Scan (151x221x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0172 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.220 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.0210 W/kg
SAR(1 g) = 0.00824 W/kg; SAR(10 g) = 0.00222 W/kg
Maximum value of SAR (measured) = 0.0189 W/kg

