Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 GSM850_GPRS12_Left Cheek_Ch189_Ant1

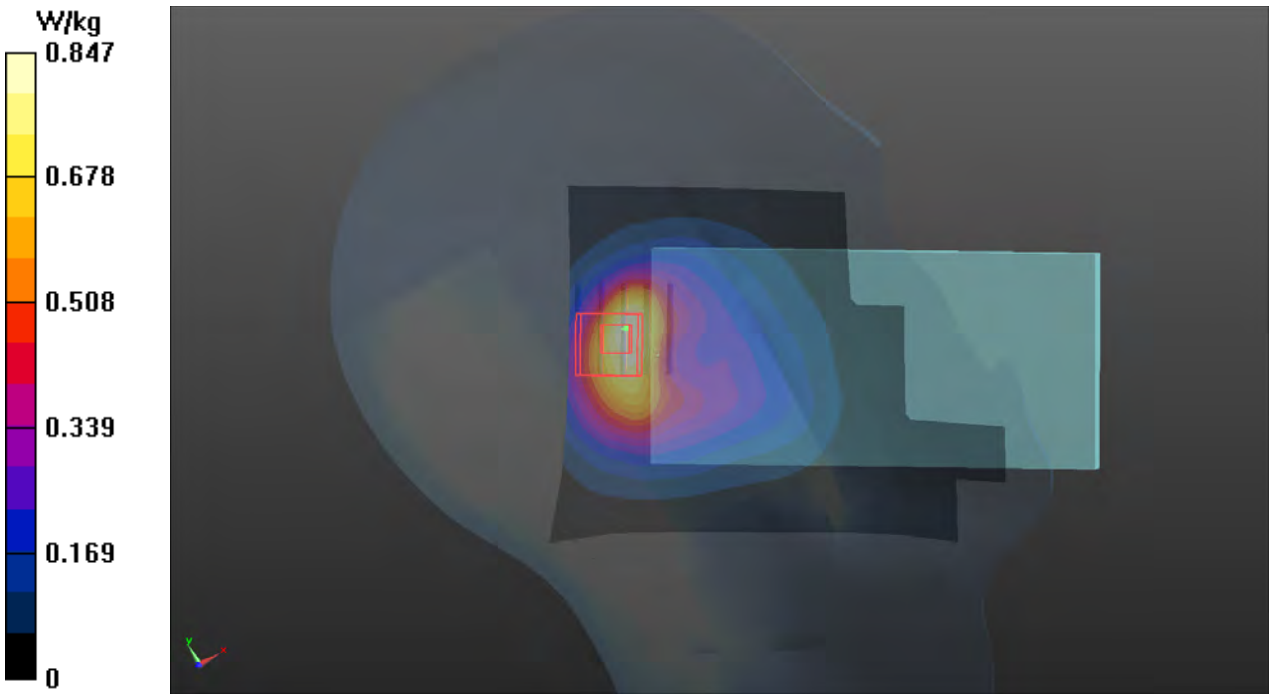
DUT: 190719C19

Communication System: GPRS12; Frequency: 836.4 MHz;Duty Cycle: 1:2
Medium: H07T10N1_0725 Medium parameters used: f = 836.4 MHz; σ = 0.917 S/m; ε_r = 40.64; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(10.13, 10.13, 10.13); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): 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 = 31.31 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.281 W/kg
Maximum value of SAR (measured) = 0.924 W/kg



P02 GSM1900_GPRS12_Right Tilted_Ch810_Ant1

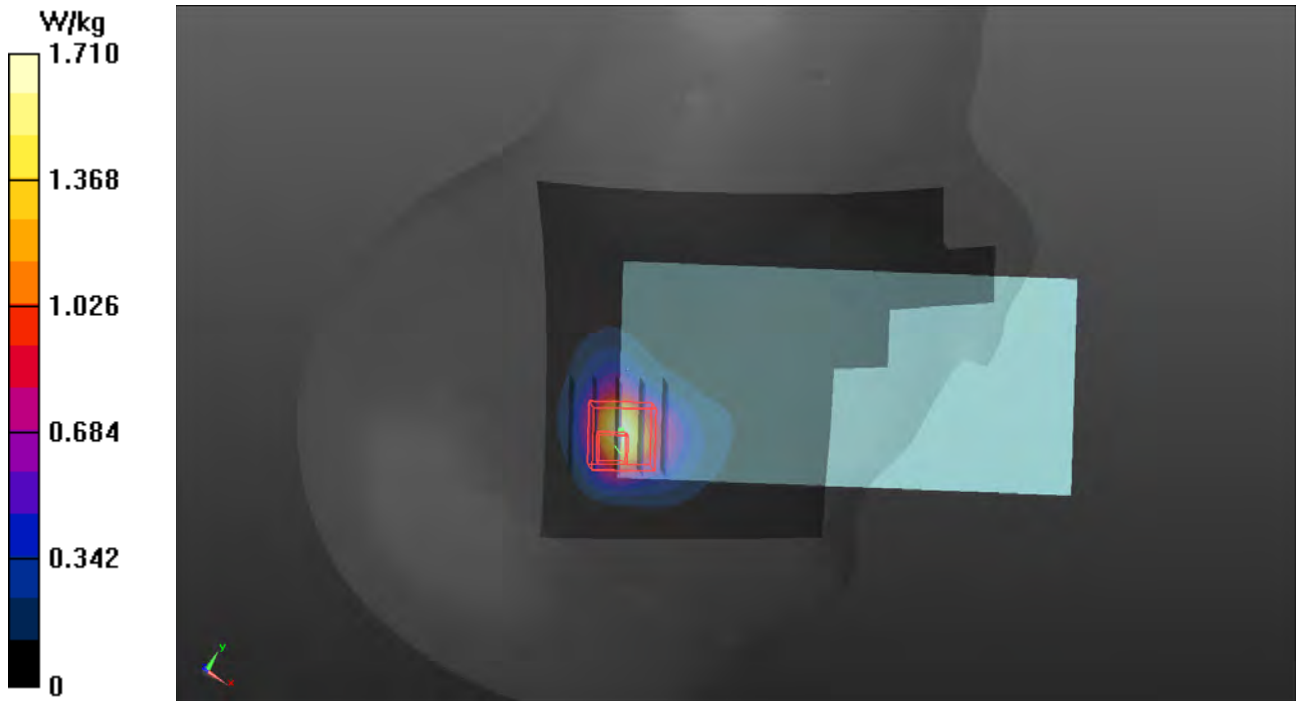
DUT: 190719C19

Communication System: GPRS12; Frequency: 1909.8 MHz;Duty Cycle: 1:2
Medium: H16T20N1_0805 Medium parameters used: f = 1910 MHz; σ = 1.457 S/m; ε_r = 39.212; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.13, 8.13, 8.13); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.71 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.8660 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.60 W/kg
SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.343 W/kg
Maximum value of SAR (measured) = 1.22 W/kg



P03 WCDMA II_RMC12.2K_Right Tilted_Ch9400_Ant1

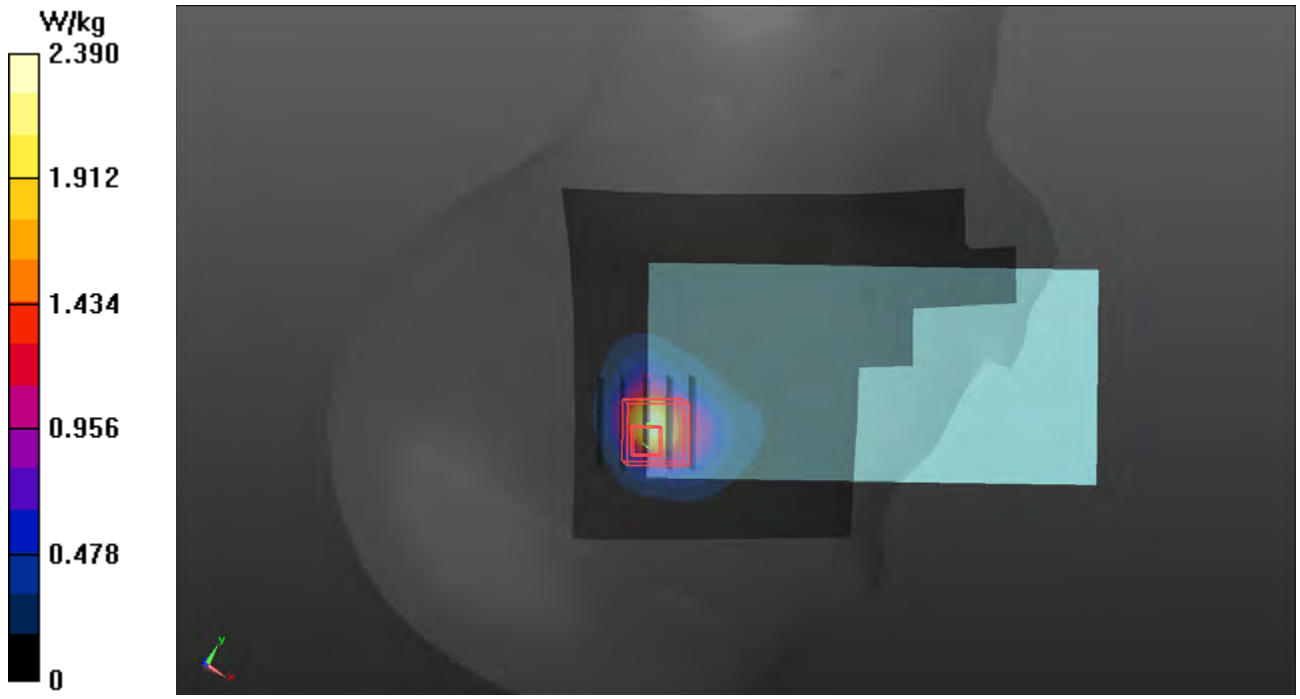
DUT: 190719C19

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1880 MHz; σ = 1.43 S/m; ε_r = 39.272; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.13, 8.13, 8.13); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.39 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 37.88 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 2.66 W/kg
SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.477 W/kg
Maximum value of SAR (measured) = 1.95 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/08/05

P04 WCDMA IV_RMC12.2K_Right Tilted_Ch1513_Ant1

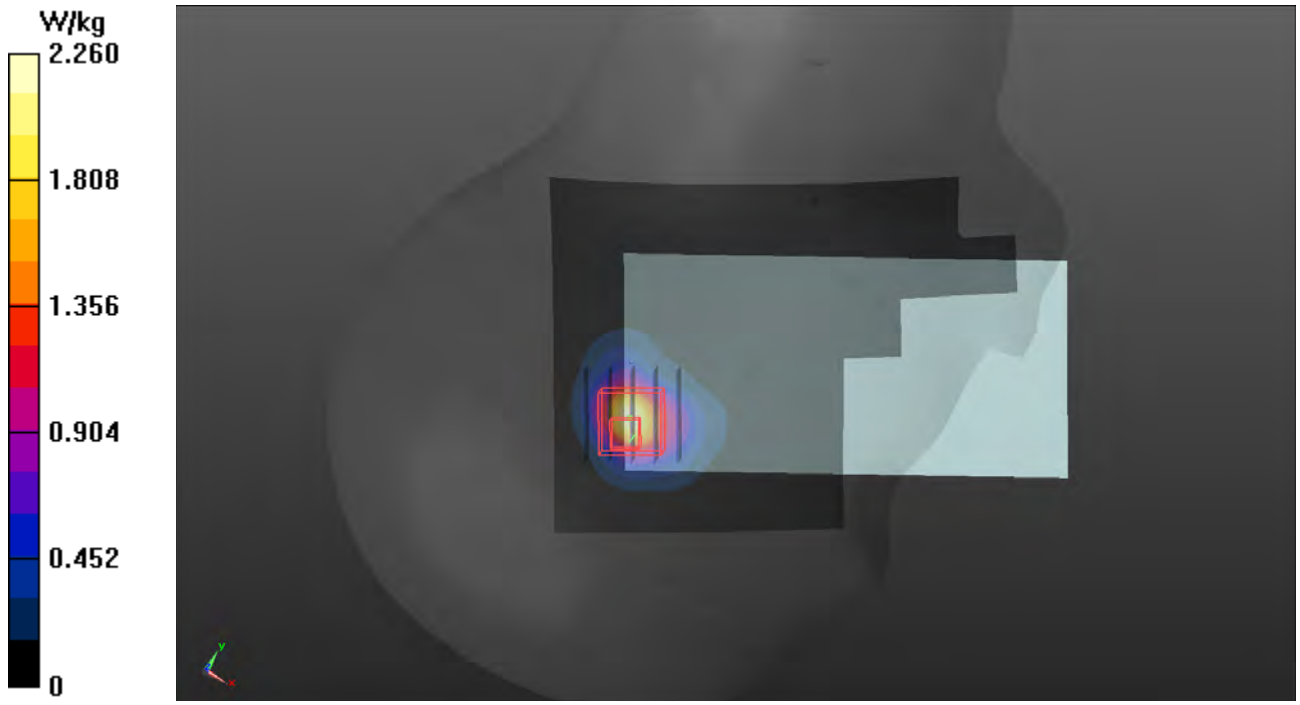
DUT: 190719C19

Communication System: WCDMA; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1753 MHz; σ = 1.322 S/m; ε_r = 39.726; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.26 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.33 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.40 W/kg
SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.424 W/kg
Maximum value of SAR (measured) = 1.79 W/kg



P05 WCDMA V_RMC12.2K_Left Cheek_Ch4132_Ant1

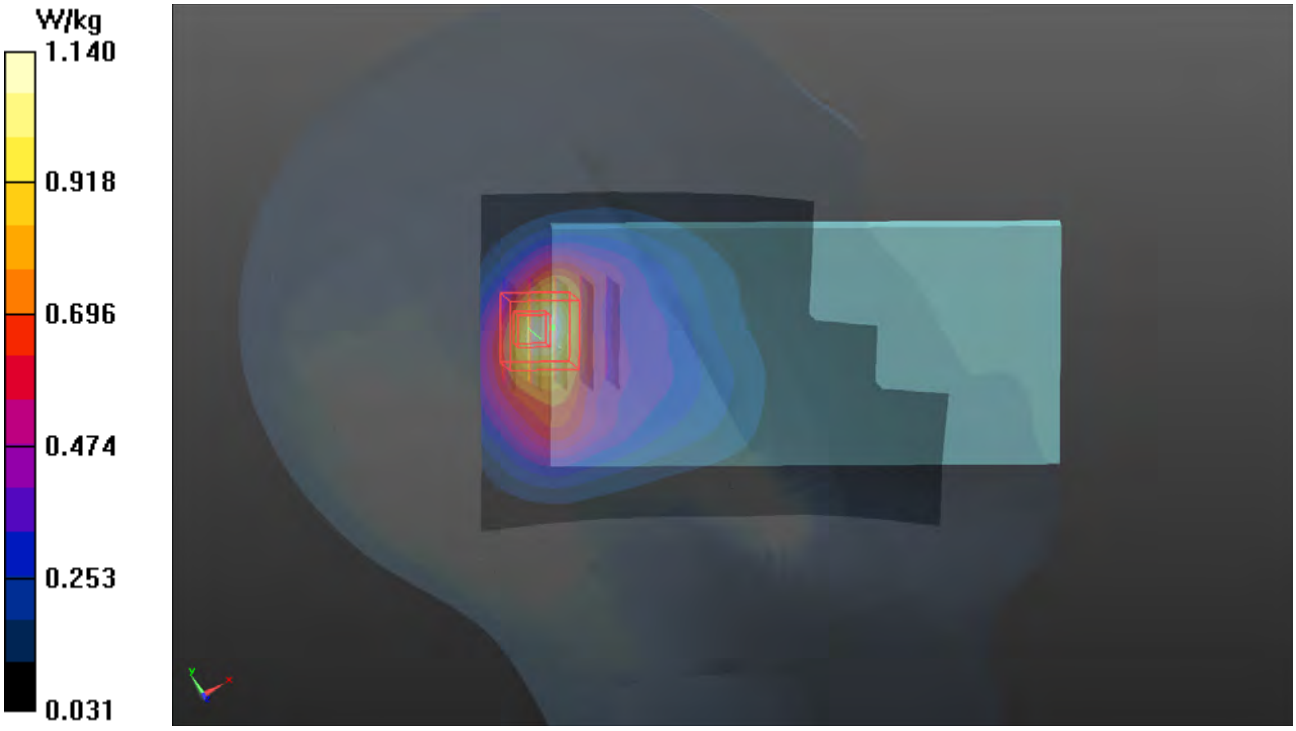
DUT: 190719C19

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: H07T10N1_0803 Medium parameters used: f = 826.4 MHz; σ = 0.911 S/m; ε_r = 41.833; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(10.18, 10.18, 10.18); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.27 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.46 W/kg
SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.387 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/08/05

P06 LTE 2_QPSK20M_Right Tilted_Ch18700_1RB_OS0_Ant1

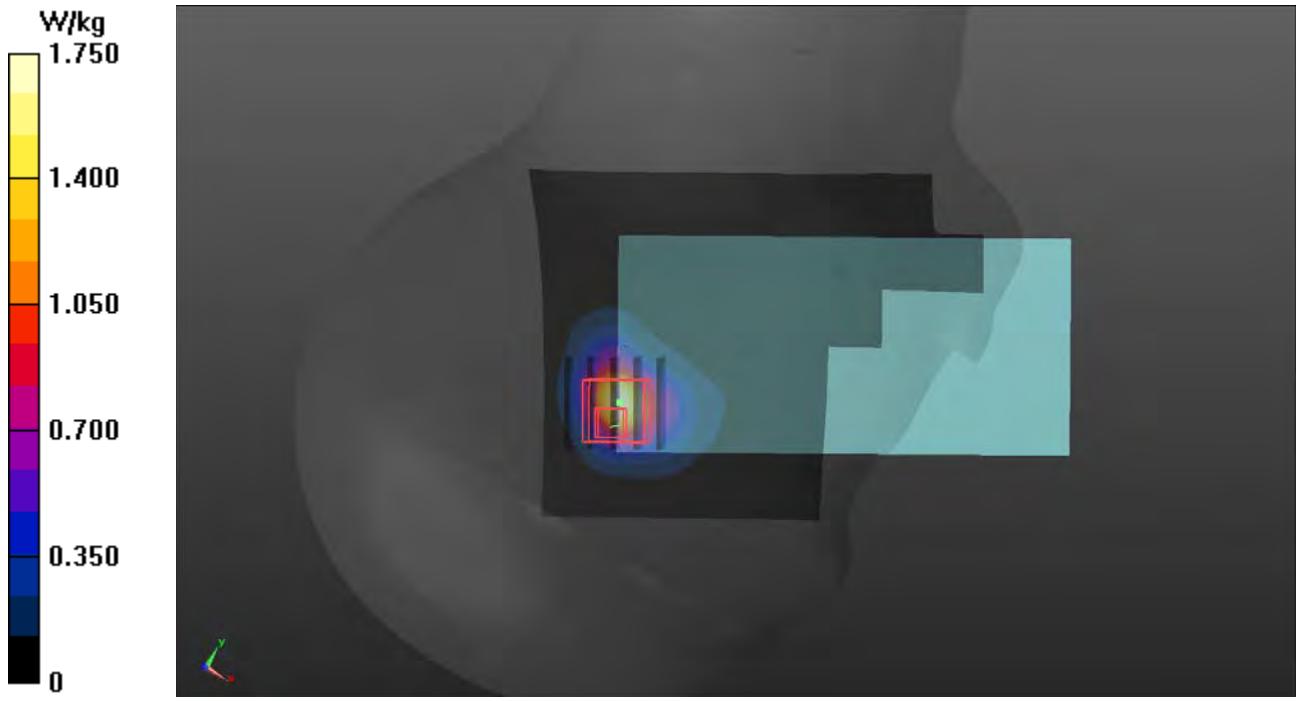
DUT: 190719C19

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1860 MHz; σ = 1.415 S/m; ε_r = 39.337; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.13, 8.13, 8.13); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.75 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.36 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.64 W/kg
SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.339 W/kg
Maximum value of SAR (measured) = 1.27 W/kg



P07 LTE 4_QPSK20M_Right Tilted_Ch20300_1RB_OS0_Ant1

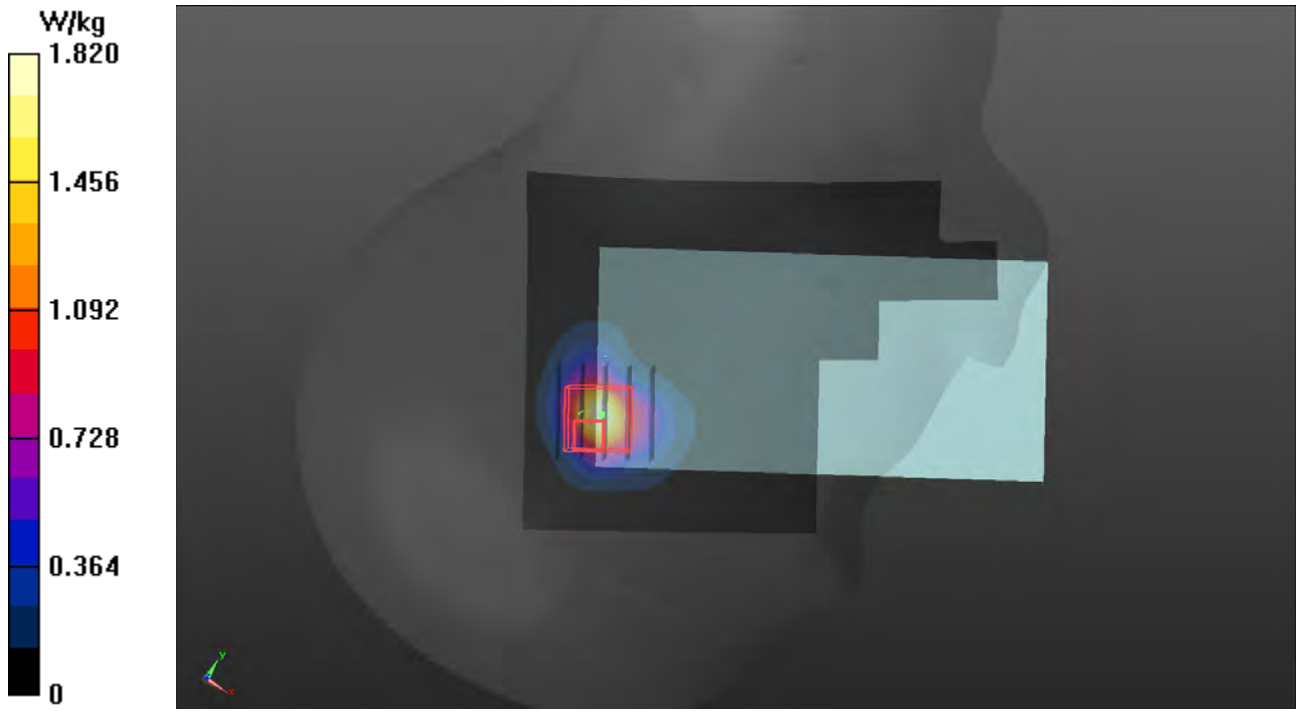
DUT: 190719C19

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1745 MHz; σ = 1.316 S/m; ε_r = 39.767; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.82 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.96 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.346 W/kg
Maximum value of SAR (measured) = 1.35 W/kg



P08 LTE 5_QPSK10M_Right Cheek_Ch20450_1RB_OS0_Ant1

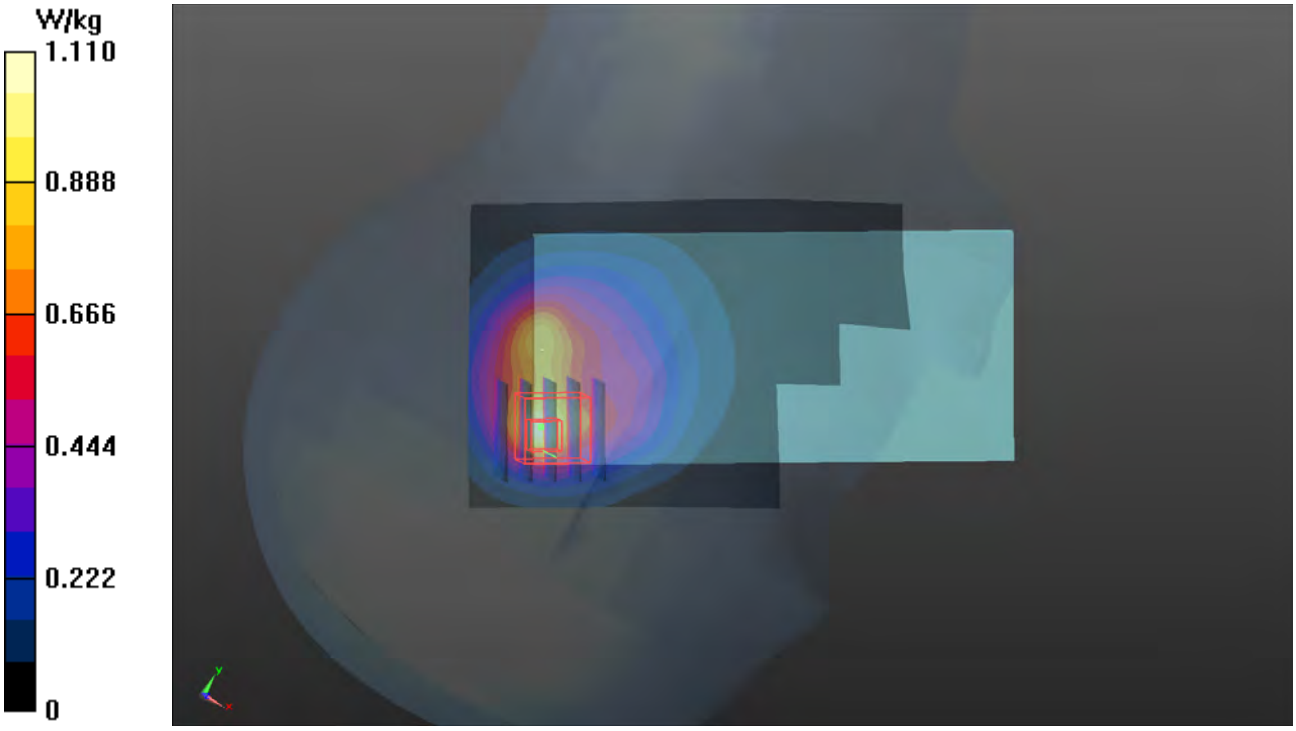
DUT: 190719C19

Communication System: LTE; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: H07T10N1_0803 Medium parameters used: f = 829 MHz; σ = 0.913 S/m; ε_r = 41.803; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(10.18, 10.18, 10.18); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.33 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.618 W/kg; SAR(10 g) = 0.350 W/kg
Maximum value of SAR (measured) = 0.987 W/kg



P09 LTE 7_QPSK20M_Right Cheek_Ch21350_1RB_OS50_Ant1

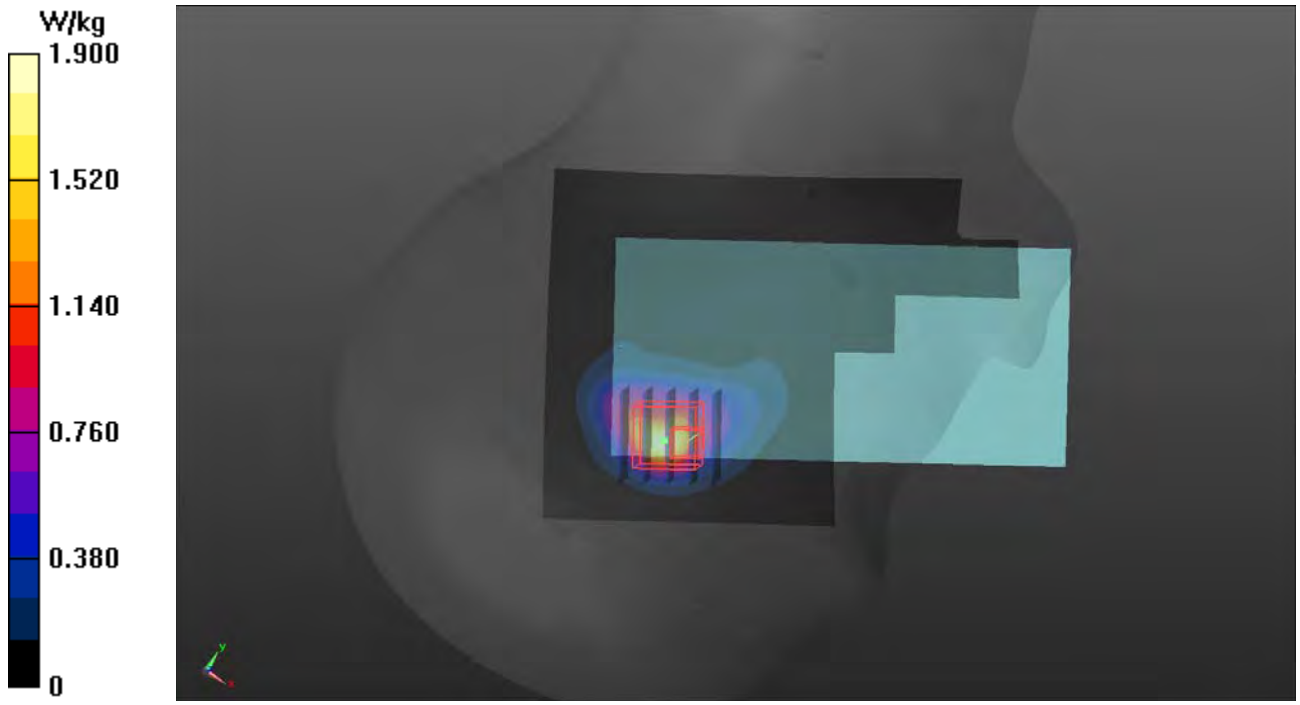
DUT: 190719C19

Communication System: LTE; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0806 Medium parameters used: f = 2560 MHz; σ = 1.976 S/m; ε_r = 38.517; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.19, 7.19, 7.19); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.90 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.80 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.77 W/kg
SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.392 W/kg
Maximum value of SAR (measured) = 1.44 W/kg



P10 LTE 38_QPSK20M_Right Cheek_Ch38150_1RB_OS0_Ant1

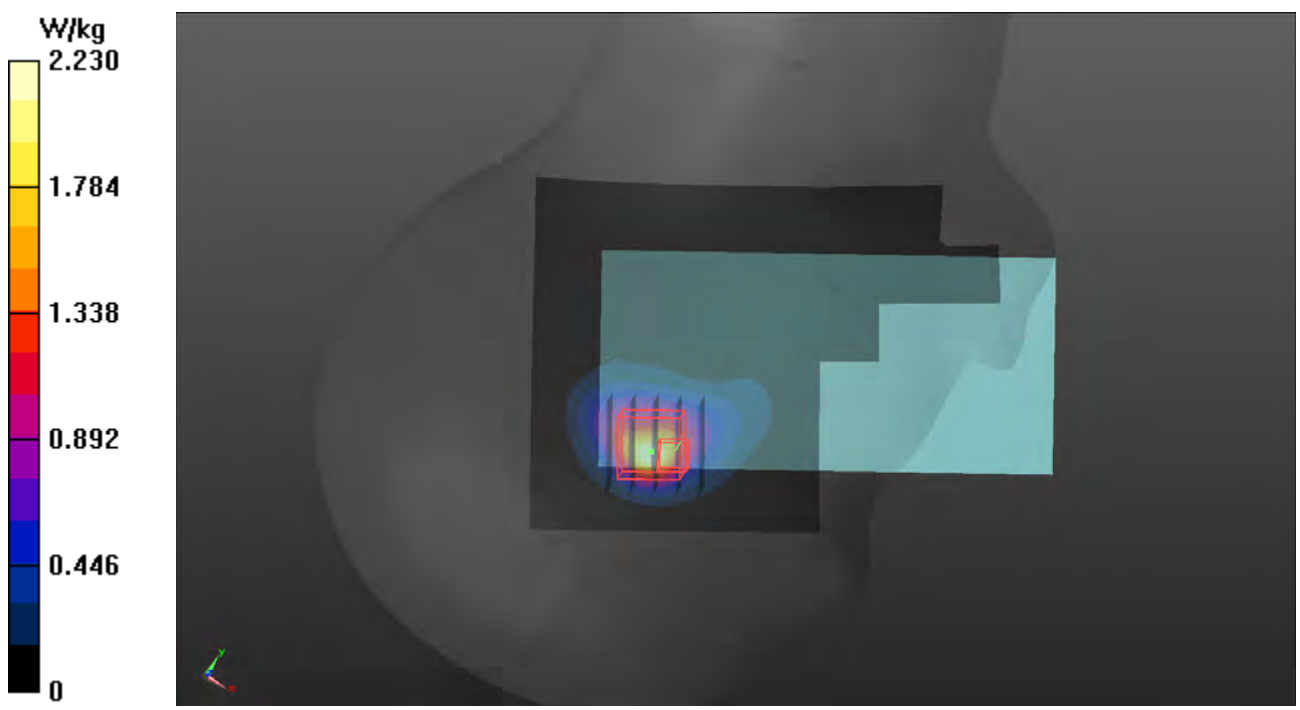
DUT: 190719C19

Communication System: LTE TDD CF0; Frequency: 2610 MHz;Duty Cycle: 1:1.58
Medium: H19T27N1_0806 Medium parameters used: f = 2610 MHz; σ = 2.053 S/m; ε_r = 38.557; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.19, 7.19, 7.19); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.23 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.64 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.06 W/kg
SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 1.66 W/kg



P11 WLAN2.4G_802.11b_Left Cheek_Ch11

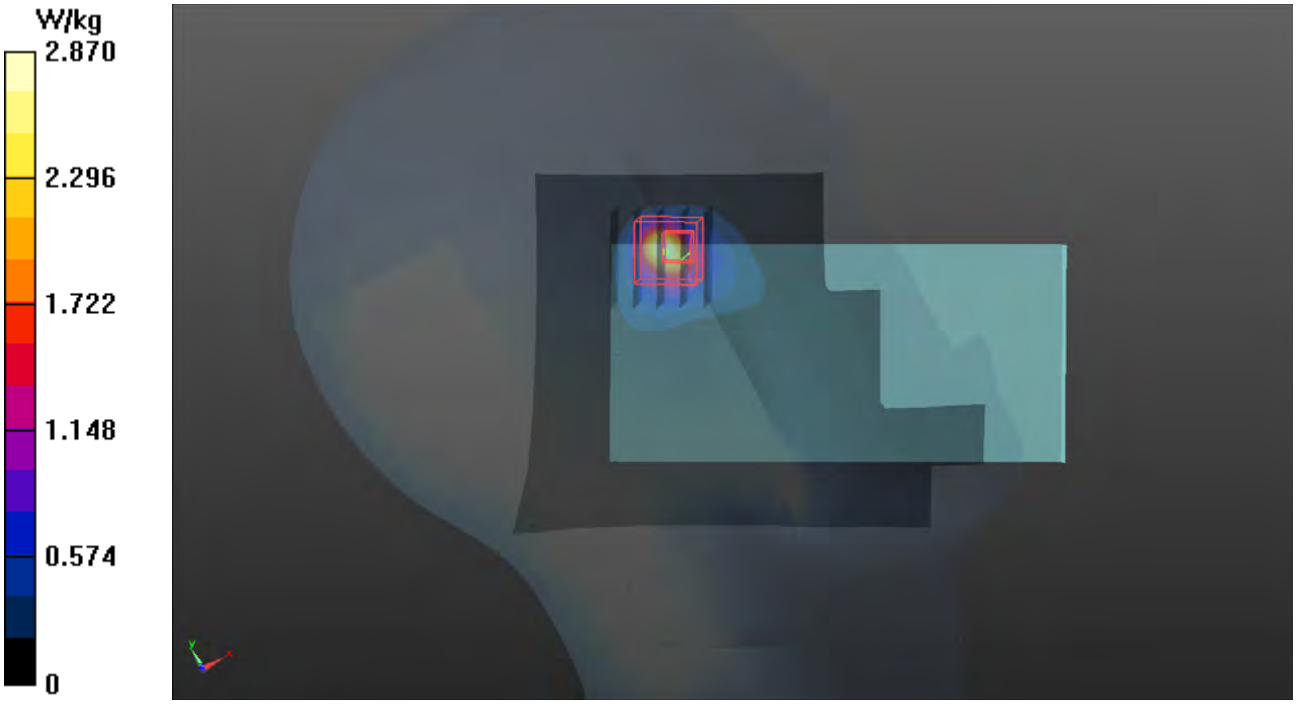
DUT: 190719C19

Communication System: WLAN_2.4G; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0806 Medium parameters used: f = 2462 MHz; σ = 1.895 S/m; ε_r = 38.277; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.65, 7.65, 7.65); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.87 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.8530 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 2.84 W/kg
SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.481 W/kg
Maximum value of SAR (measured) = 2.11 W/kg



P12 WLAN2.4G_802.11b_Left Cheek_Ch11

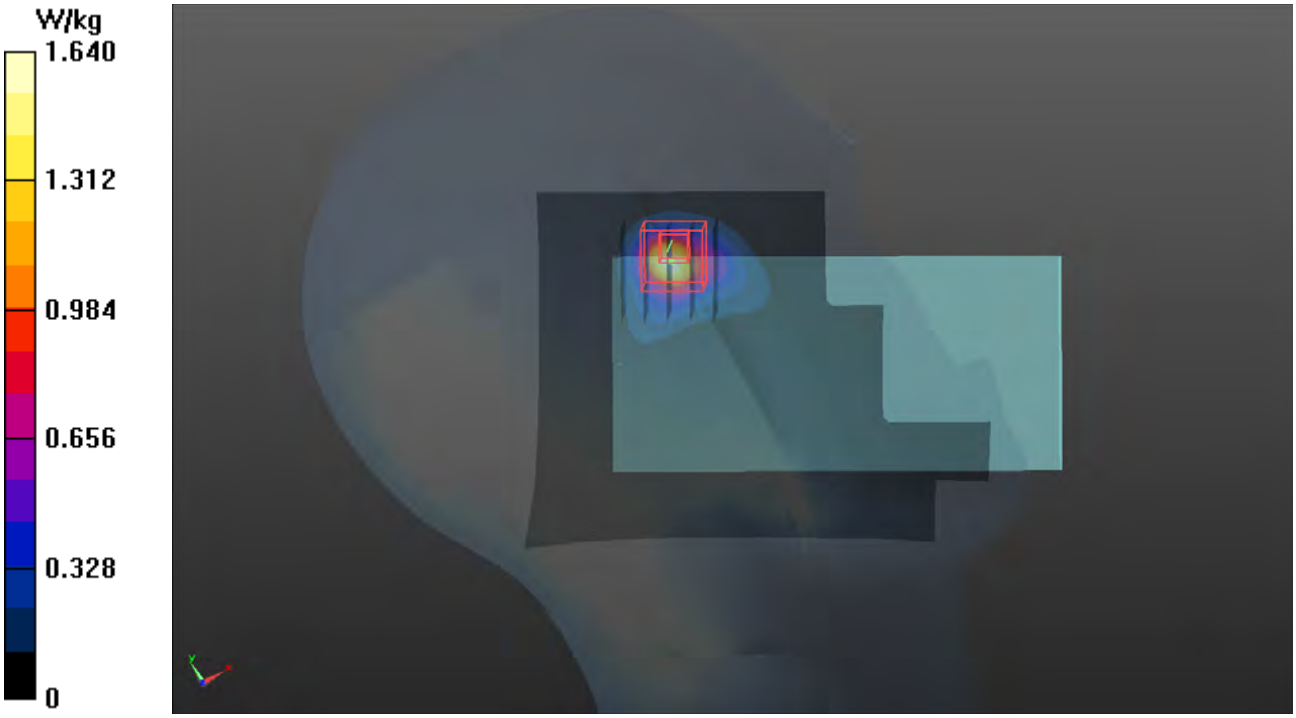
DUT: 190719C19

Communication System: WLAN_2.4G; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0806 Medium parameters used: f = 2462 MHz; σ = 1.895 S/m; ε_r = 38.277; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.65, 7.65, 7.65); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.64 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.283 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



P13 WLAN5.3G_802.11n HT40_Left Cheek_Ch62

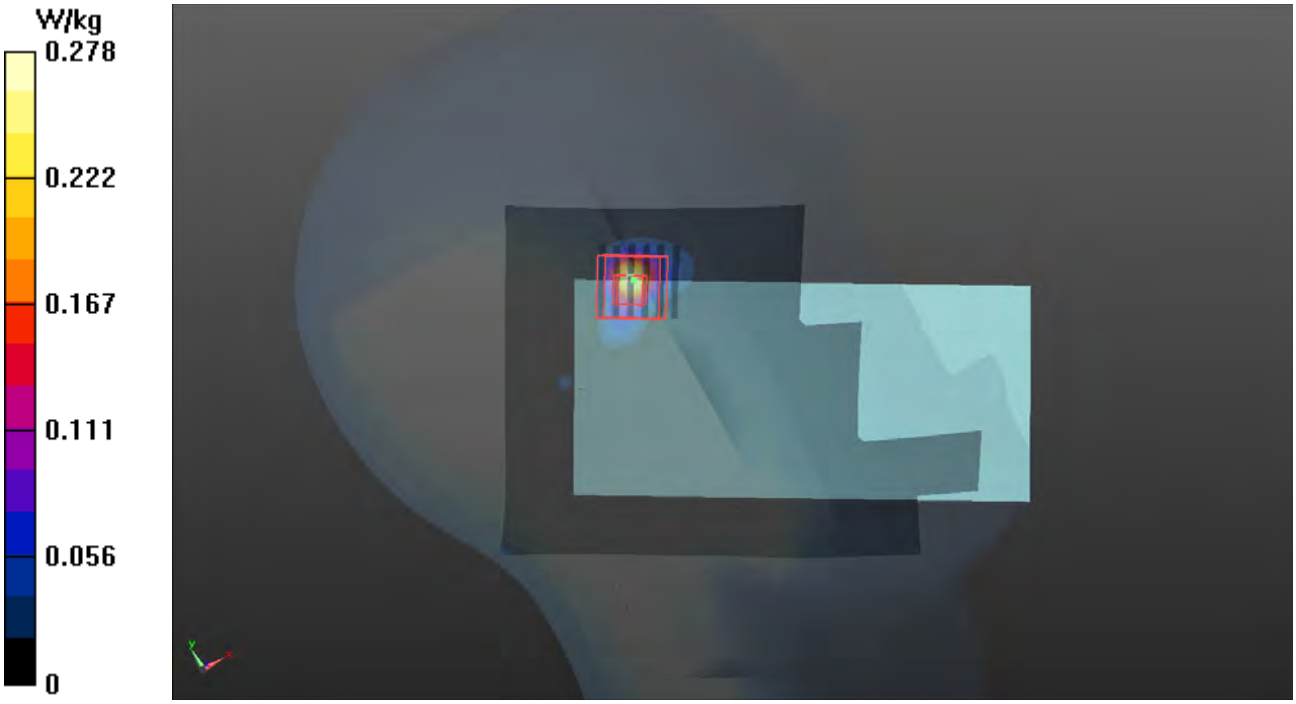
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5310 MHz;Duty Cycle: 1:1.02
Medium: H34T60N1_0806 Medium parameters used: f = 5310 MHz; σ = 4.851 S/m; ε_r = 36.112; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.278 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0.9740 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.933 W/kg
SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.026 W/kg
Maximum value of SAR (measured) = 0.278 W/kg



P14 WLAN5.6G_802.11n HT40_Left Cheek_Ch110

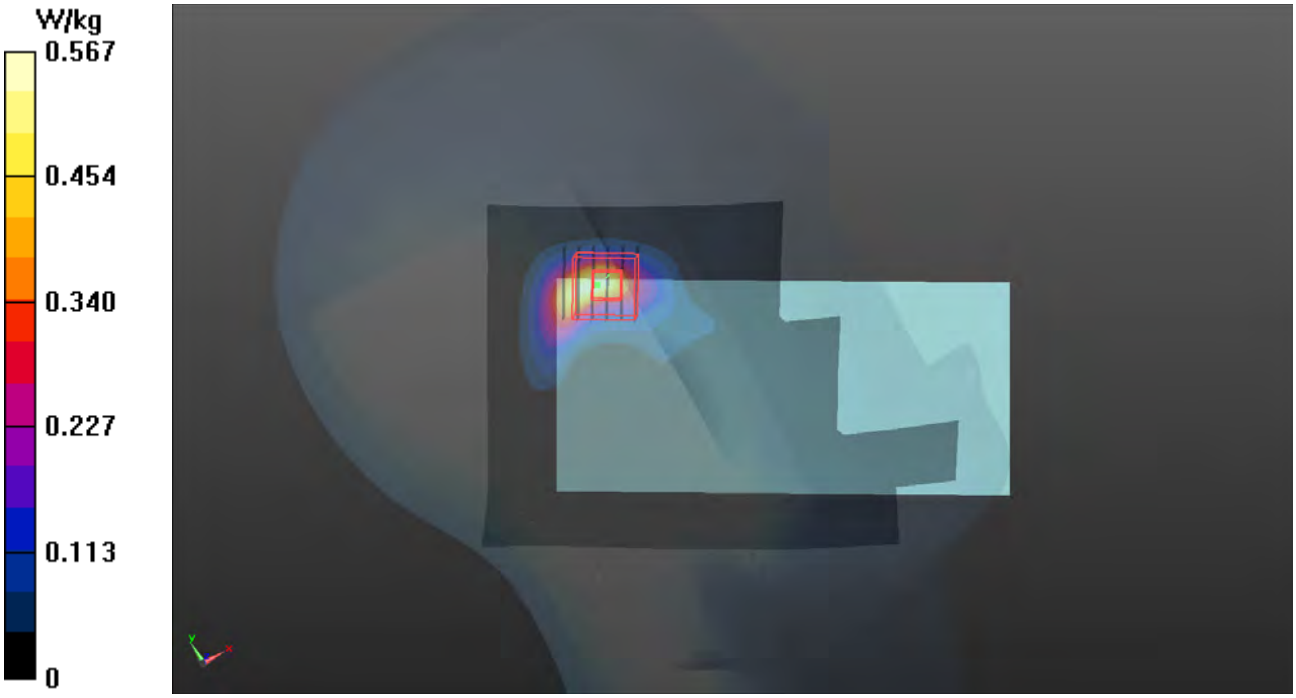
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5550 MHz;Duty Cycle: 1:1.02
Medium: H34T60N1_0806 Medium parameters used: f = 5550 MHz; σ = 5.079 S/m; ε_r = 35.62; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(4.78, 4.78, 4.78); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.567 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.902 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.061 W/kg
Maximum value of SAR (measured) = 0.624 W/kg



P15 WLAN5.8G_802.11n HT40_Left Cheek_Ch151

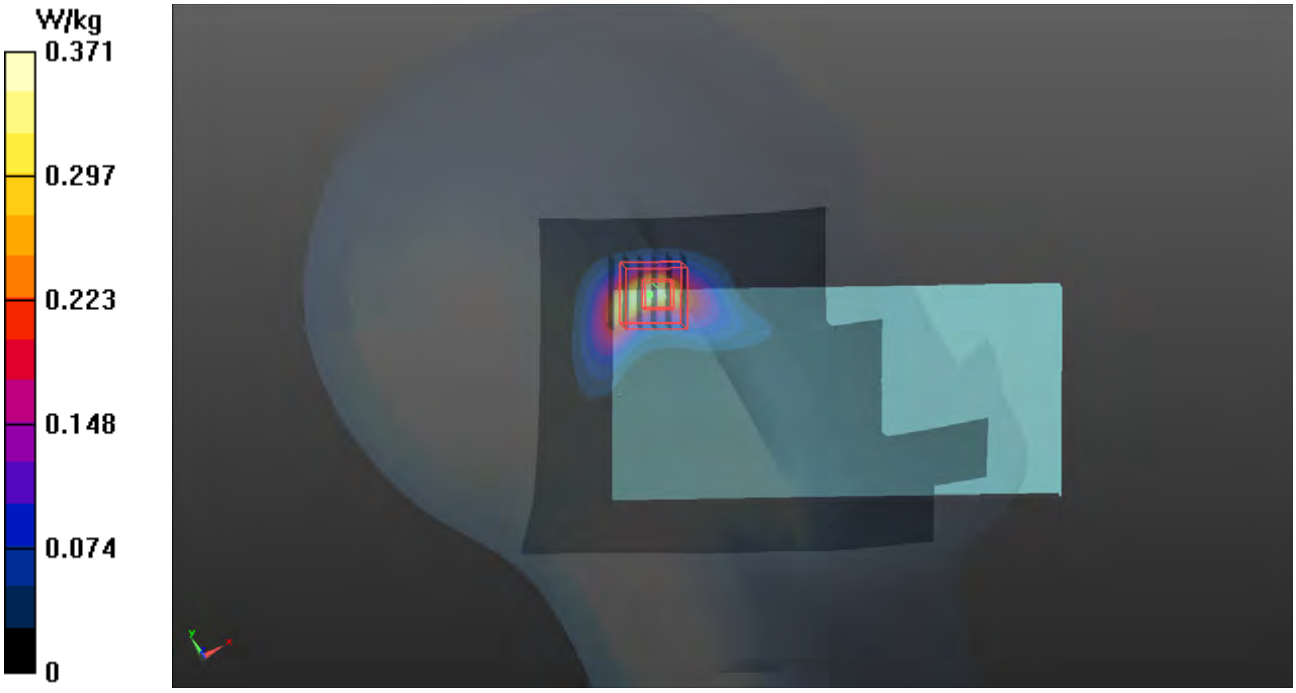
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5755 MHz;Duty Cycle: 1:1.02
Medium: H34T60N1_0806 Medium parameters used: f = 5755 MHz; σ = 5.347 S/m; ε_r = 35.467; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(4.92, 4.92, 4.92); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.371 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 0.9540 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.969 W/kg
SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.045 W/kg
Maximum value of SAR (measured) = 0.423 W/kg



P16 BT_BDR_Left Cheek_Ch78

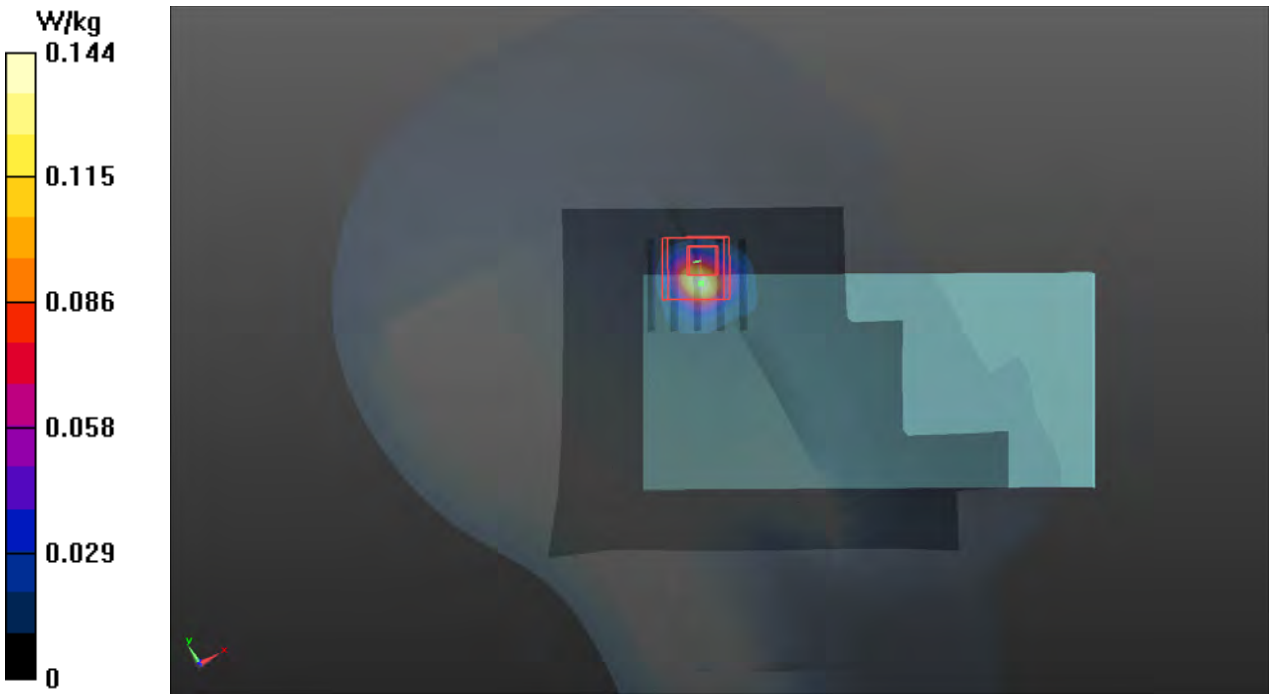
DUT: 190719C19

Communication System: BT; Frequency: 2480 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0725 Medium parameters used: f = 2480 MHz; σ = 1.914 S/m; ε_r = 38.11; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(7.71, 7.71, 7.71); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.144 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.674 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.108 W/kg
SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.015 W/kg
Maximum value of SAR (measured) = 0.0839 W/kg



P17 GSM850_GPRS12_Rear Face_15mm_Ch128_Ant1

DUT: 190719C19

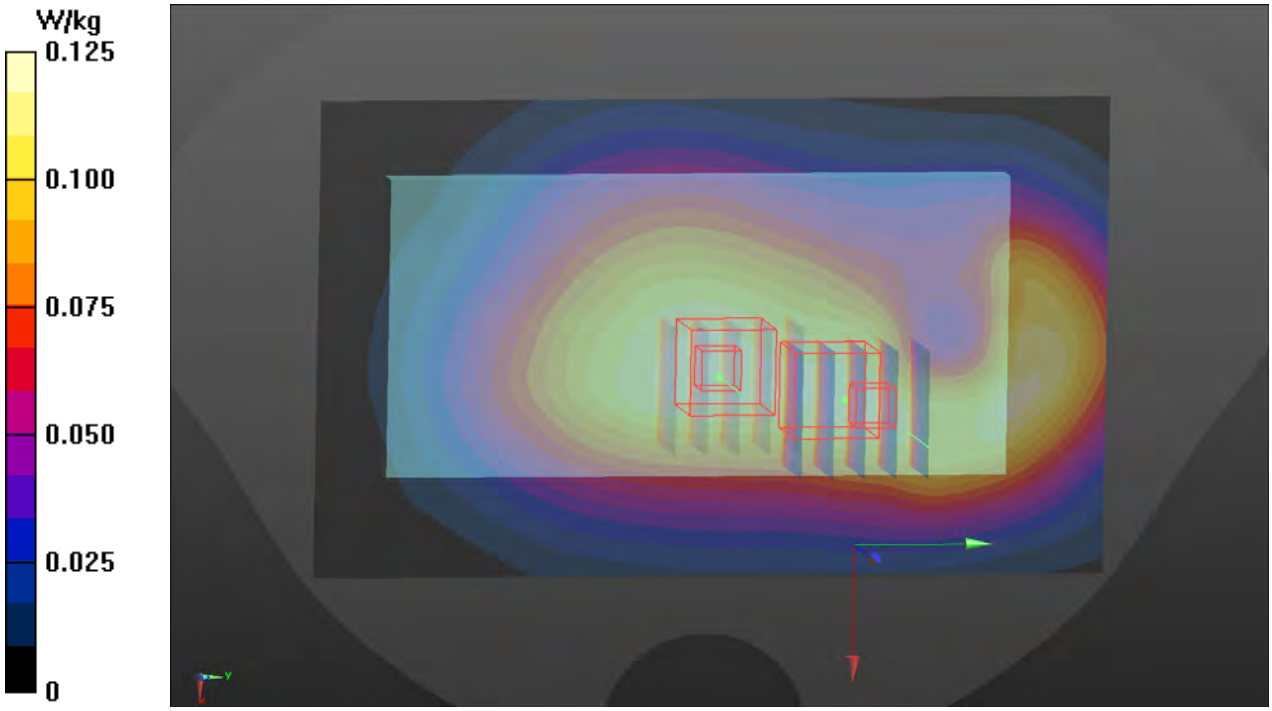
Communication System: GPRS12; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: H07T10N1_0725 Medium parameters used: f = 824.2 MHz; σ = 0.911 S/m; ε_r = 42.472; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(10.48, 10.48, 10.48); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.125 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.03 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.128 W/kg
SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.070 W/kg
Maximum value of SAR (measured) = 0.117 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.03 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.135 W/kg
SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.069 W/kg
Maximum value of SAR (measured) = 0.120 W/kg



P18 GSM1900_GPRS12_Rear Face_15mm_Ch512_Ant0

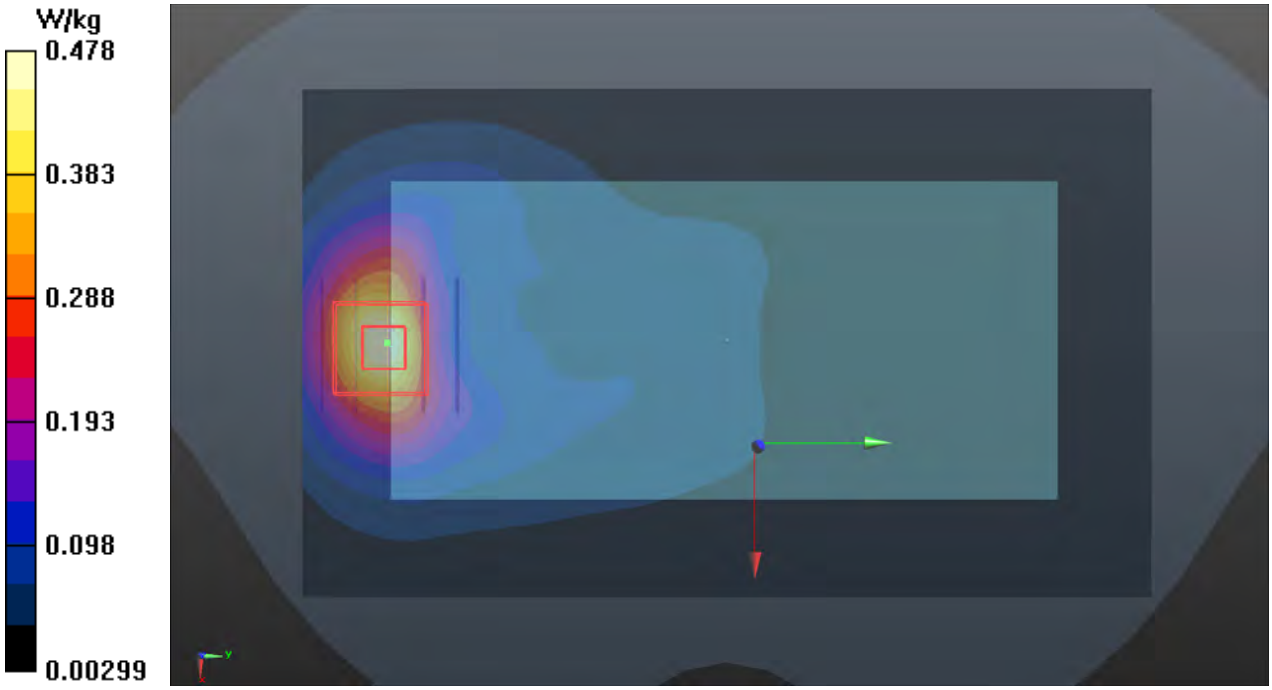
DUT: 190719C19

Communication System: GPRS12; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: H16T20N1_0730 Medium parameters used: f = 1850.2 MHz; σ = 1.405 S/m; ε_r = 39.737; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(8.44, 8.44, 8.44); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.478 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.07 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.574 W/kg
SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.192 W/kg
Maximum value of SAR (measured) = 0.490 W/kg



P19 WCDMA II_RMC12.2K_Rear Face_15mm_Ch9262_Ant0

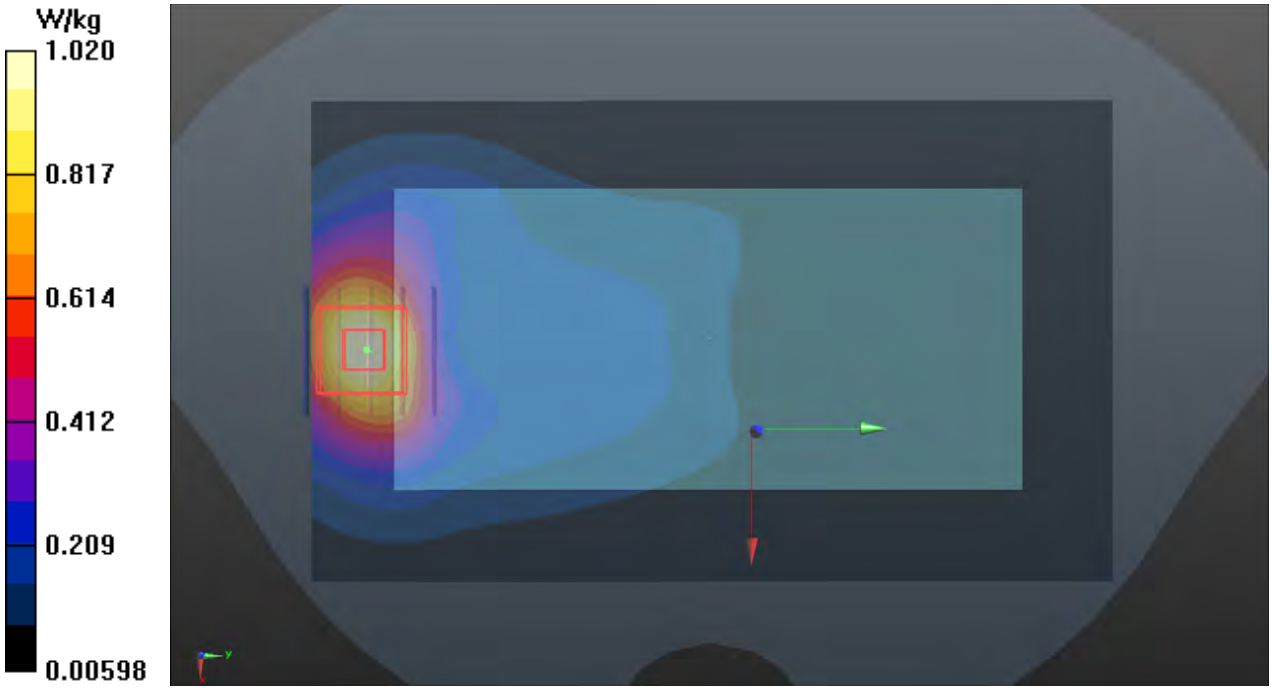
DUT: 190719C19

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0730 Medium parameters used: f = 1852.4 MHz; σ = 1.407 S/m; ε_r = 39.733; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(8.44, 8.44, 8.44); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.72 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.456 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



P20 WCDMA IV_RMC12.2K_Rear Face_15mm_Ch1312_Ant0

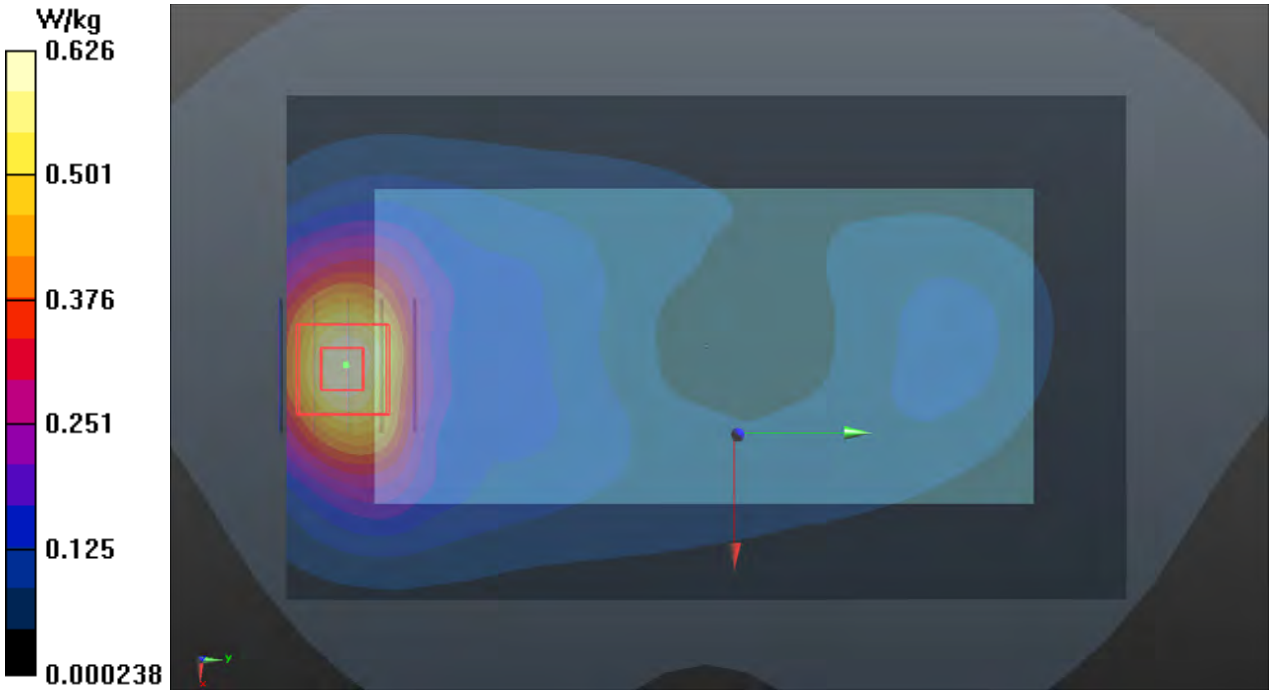
DUT: 190719C19

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0730 Medium parameters used: f = 1712.4 MHz; σ = 1.287 S/m; ε_r = 40.3; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(8.79, 8.79, 8.79); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.626 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.06 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.846 W/kg
SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 0.731 W/kg



P21 WCDMA V_RMC12.2K_Rear Face_15mm_Ch4233_Ant0

DUT: 190719C19

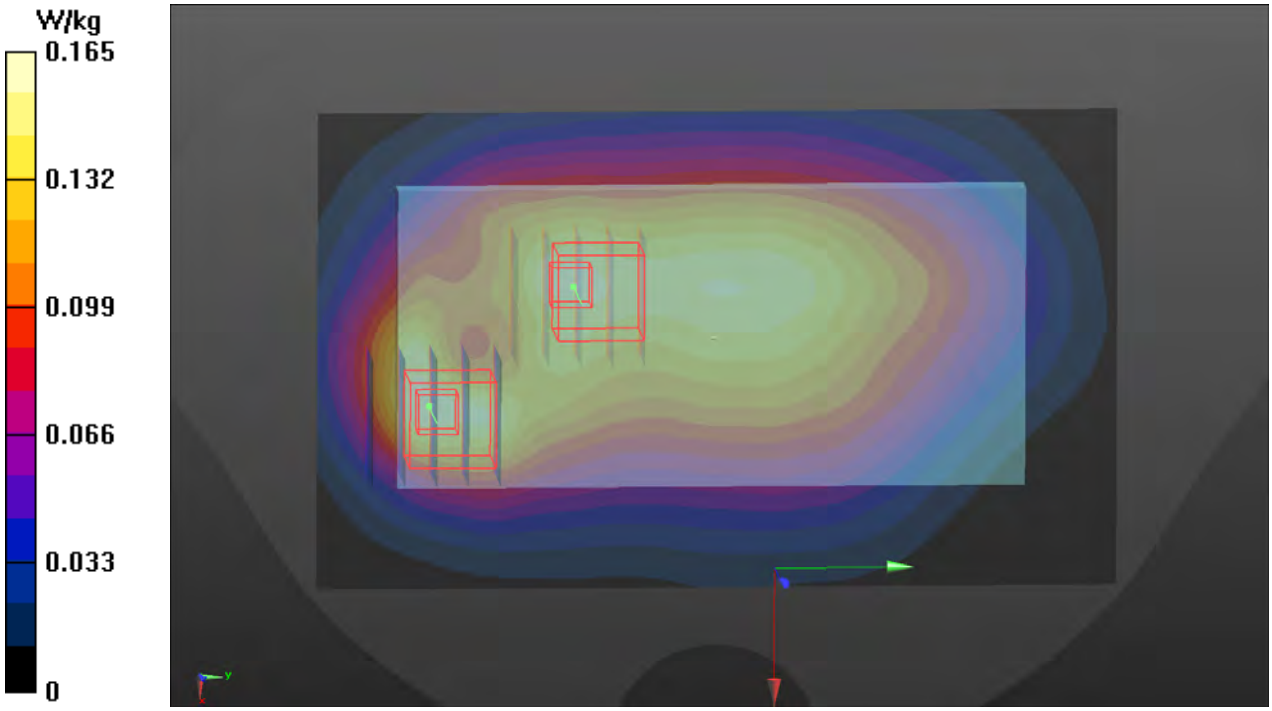
Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: H07T10N1_0725 Medium parameters used: f = 847 MHz; σ = 0.932 S/m; ε_r = 42.18; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(10.48, 10.48, 10.48); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.165 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.70 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.178 W/kg
SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.090 W/kg
Maximum value of SAR (measured) = 0.158 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.70 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.201 W/kg
SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.071 W/kg
Maximum value of SAR (measured) = 0.170 W/kg



P22 LTE 2_QPSK20M_Rear Face_15mm_Ch18900_1RB_OS0_Ant0

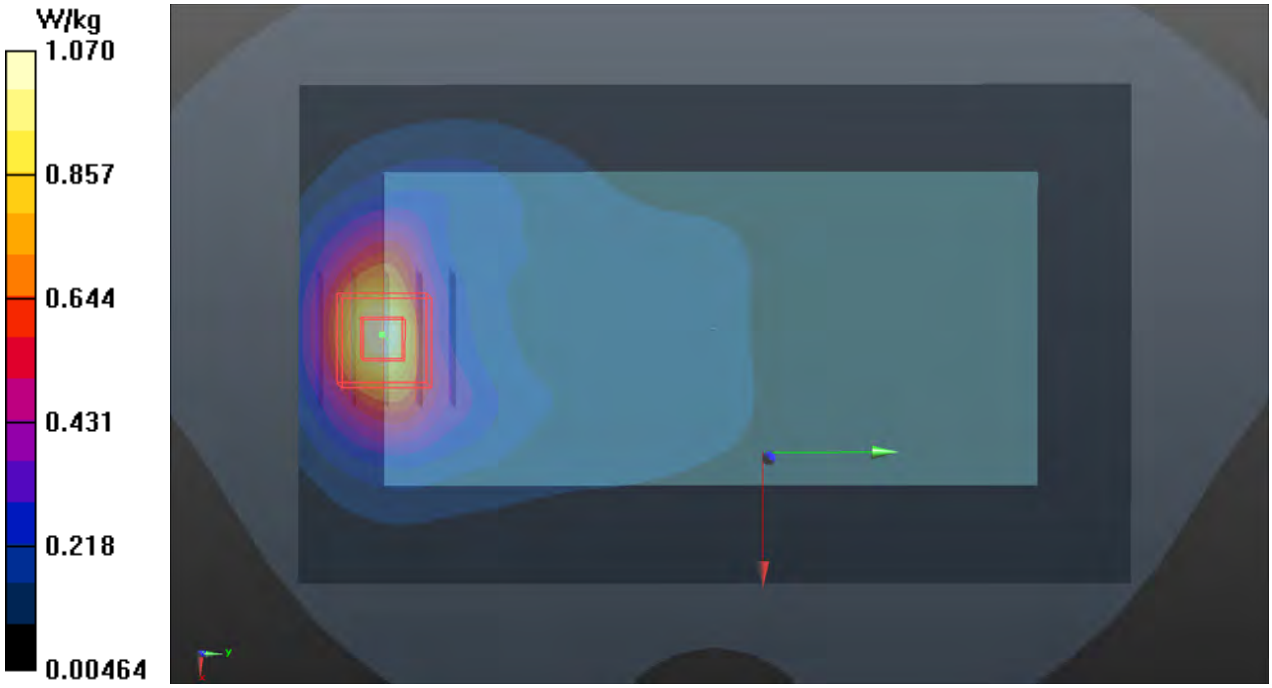
DUT: 190719C19

Communication System: LTE; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0730 Medium parameters used: f = 1880 MHz; σ = 1.429 S/m; ε_r = 39.679; ρ = 1000 kg/m^3
Ambient Temperature：23.9 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(8.44, 8.44, 8.44); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.23 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.416 W/kg
Maximum value of SAR (measured) = 1.08 W/kg



P23 LTE 4_QPSK20M_Rear Face_15mm_Ch20300_1RB_OS0_Ant0

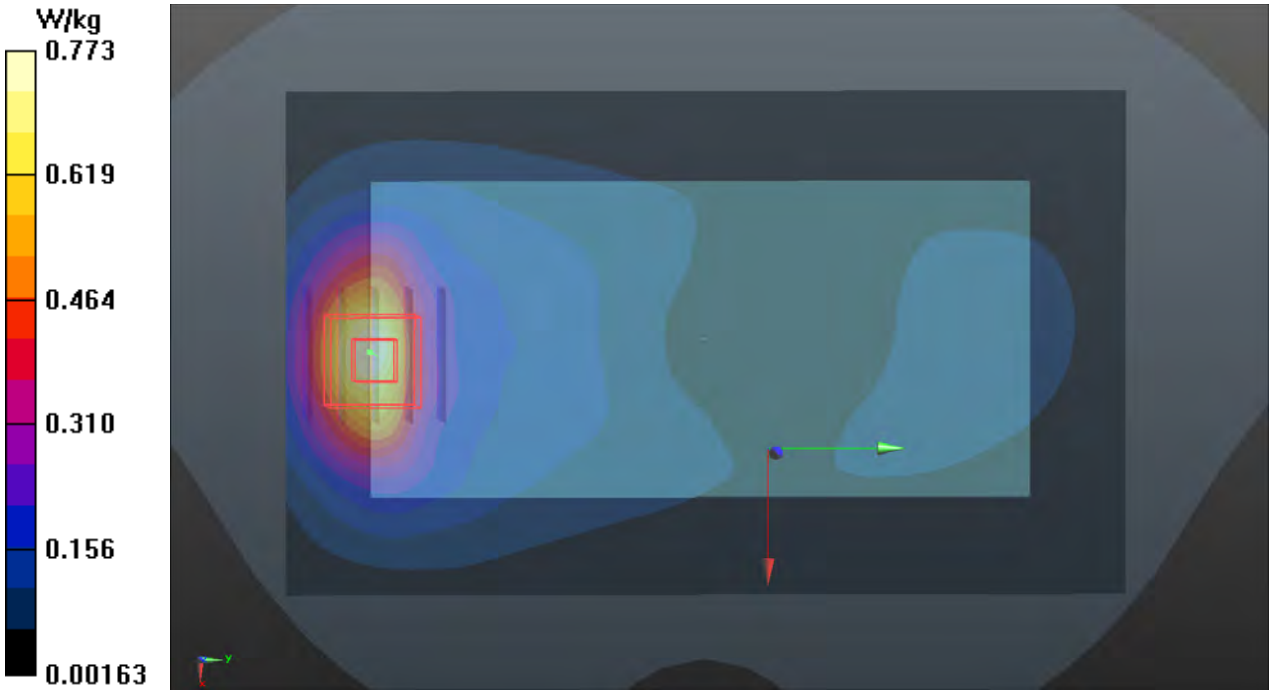
DUT: 190719C19

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0730 Medium parameters used: f = 1745 MHz; σ = 1.318 S/m; ε_r = 40.166; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(8.79, 8.79, 8.79); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.773 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.76 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.894 W/kg
SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.321 W/kg
Maximum value of SAR (measured) = 0.769 W/kg



P24 LTE 5_QPSK10M_Rear Face_15mm_Ch20450_1RB_OS0_Ant1

DUT: 190719C19

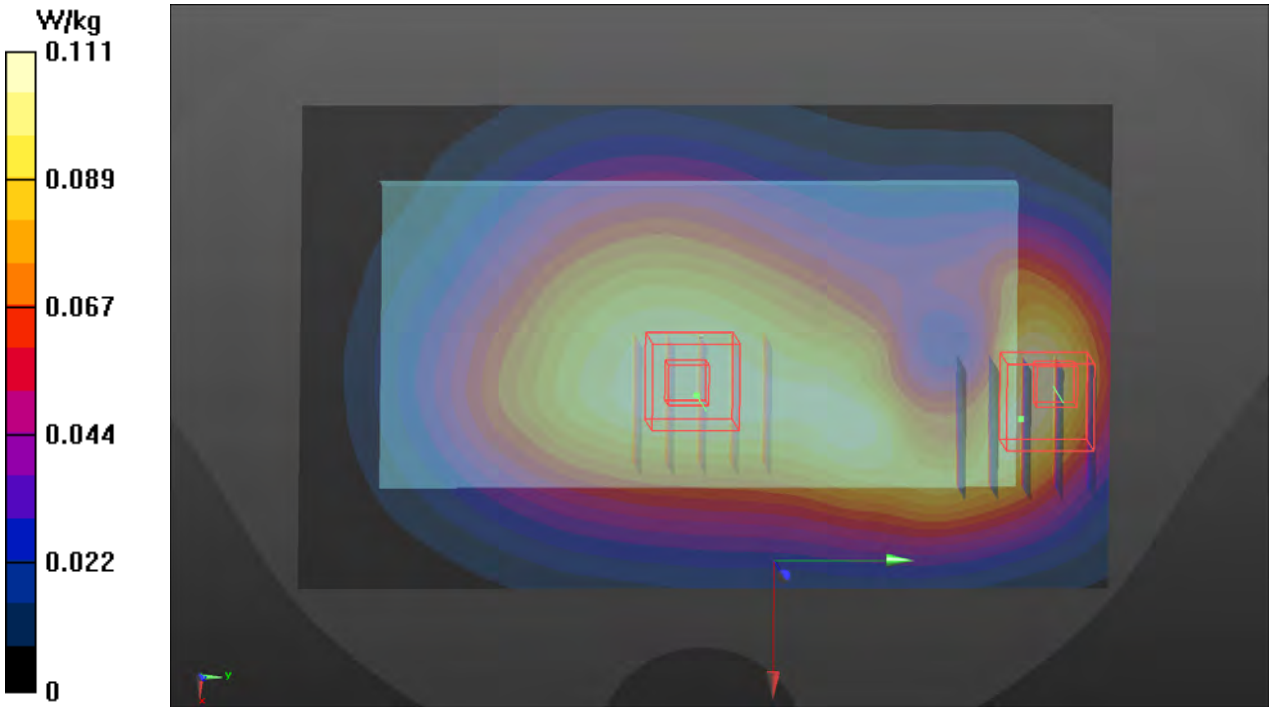
Communication System: LTE; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: H07T10N1_0725 Medium parameters used: f = 829 MHz; σ = 0.915 S/m; ε_r = 42.404; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(10.48, 10.48, 10.48); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.111 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.42 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.122 W/kg
SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.111 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.42 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.137 W/kg
SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.046 W/kg
Maximum value of SAR (measured) = 0.116 W/kg



P25 LTE 7_QPSK20M_Rear Face_15mm_Ch20850_1RB_OS50_Ant0

DUT: 190719C19

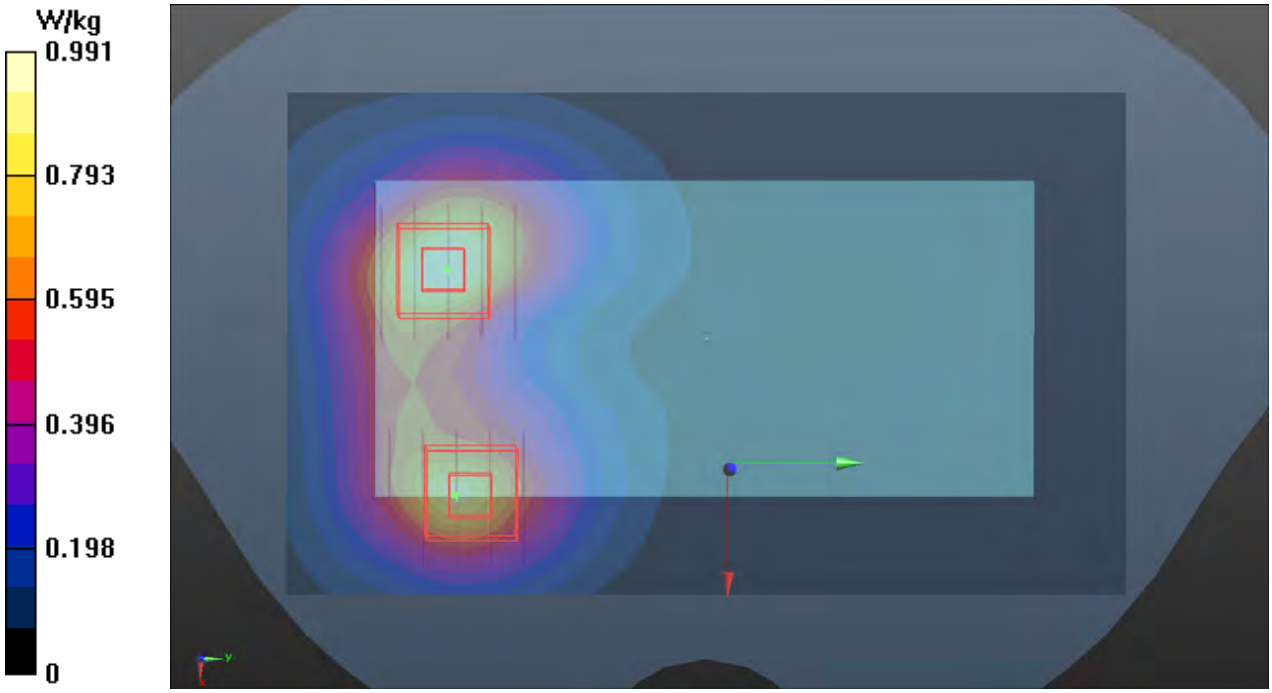
Communication System: LTE; Frequency: 2510 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0731 Medium parameters used: f = 2510 MHz; σ = 1.947 S/m; ε_r = 38.171; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(7.53, 7.53, 7.53); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.991 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.20 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.378 W/kg
Maximum value of SAR (measured) = 0.995 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.20 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.553 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 0.840 W/kg



P26 LTE 38_QPSK20M_Rear Face_15mm_Ch37850_1RB_OS0_Ant0

DUT: 190719C19

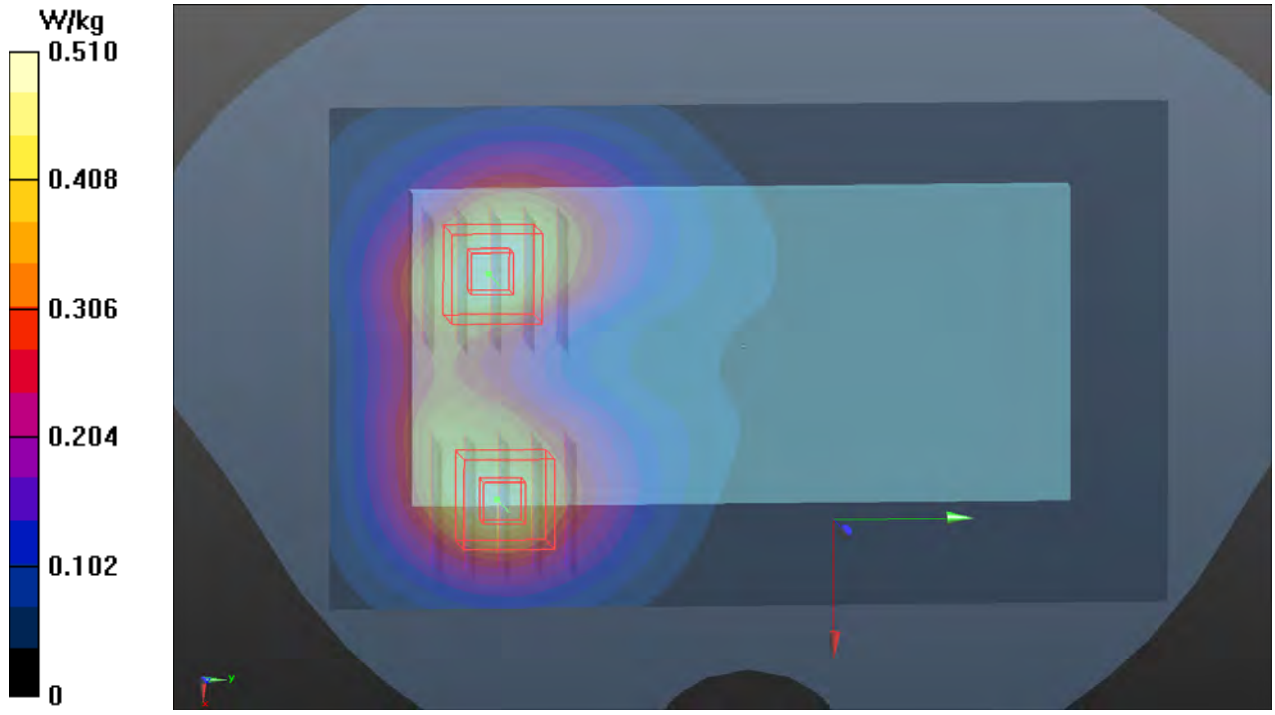
Communication System: LTE TDD CF0; Frequency: 2580 MHz;Duty Cycle: 1:1.58
Medium: H19T27N1_0731 Medium parameters used: f = 2580 MHz; σ = 2.023 S/m; ε_r = 37.901; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(7.53, 7.53, 7.53); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.510 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.50 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.627 W/kg
SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.196 W/kg
Maximum value of SAR (measured) = 0.520 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.50 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.589 W/kg
SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.170 W/kg
Maximum value of SAR (measured) = 0.482 W/kg



P27 WLAN2.4G_802.11b_Front Face_15mm_Ch6

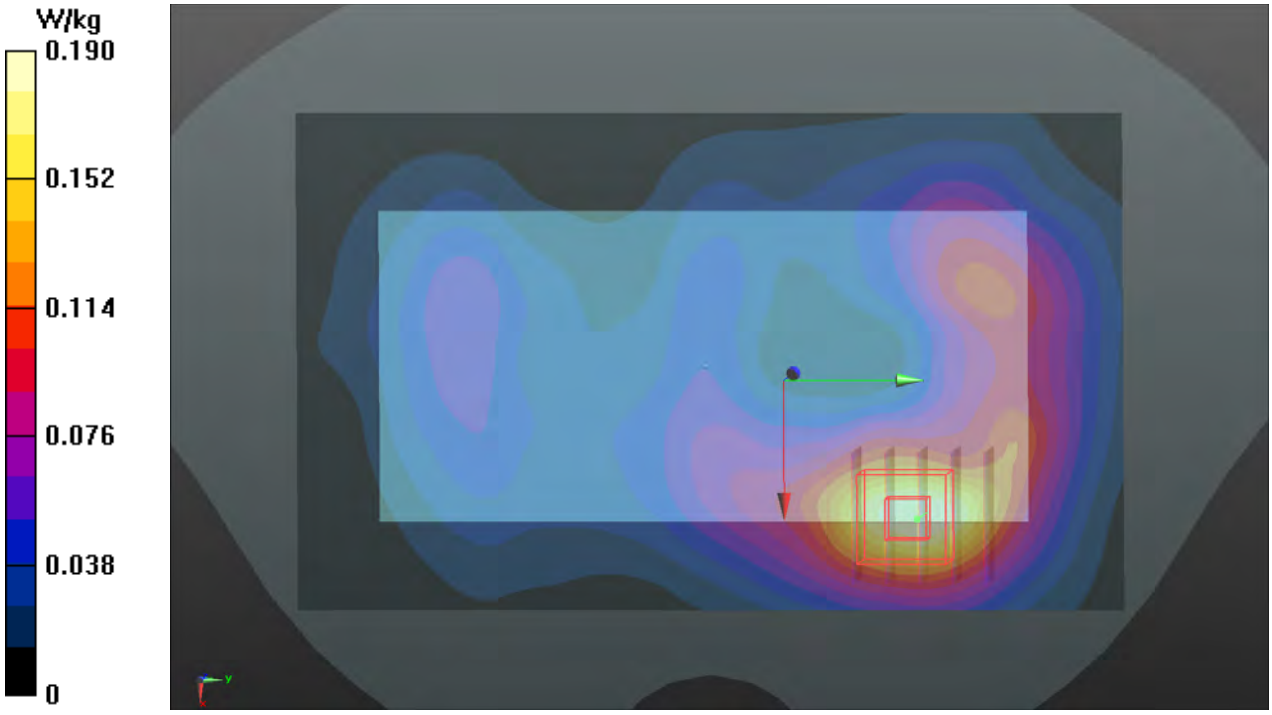
DUT: 190719C19

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0731 Medium parameters used: f = 2437 MHz; σ = 1.871 S/m; ε_r = 38.384; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(7.71, 7.71, 7.71); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.190 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.879 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.253 W/kg
SAR(1 g) = 0.134 W/kg; SAR(10 g) = 0.072 W/kg
Maximum value of SAR (measured) = 0.208 W/kg



P28 WLAN2.4G_802.11b_Front Face_15mm_Ch6

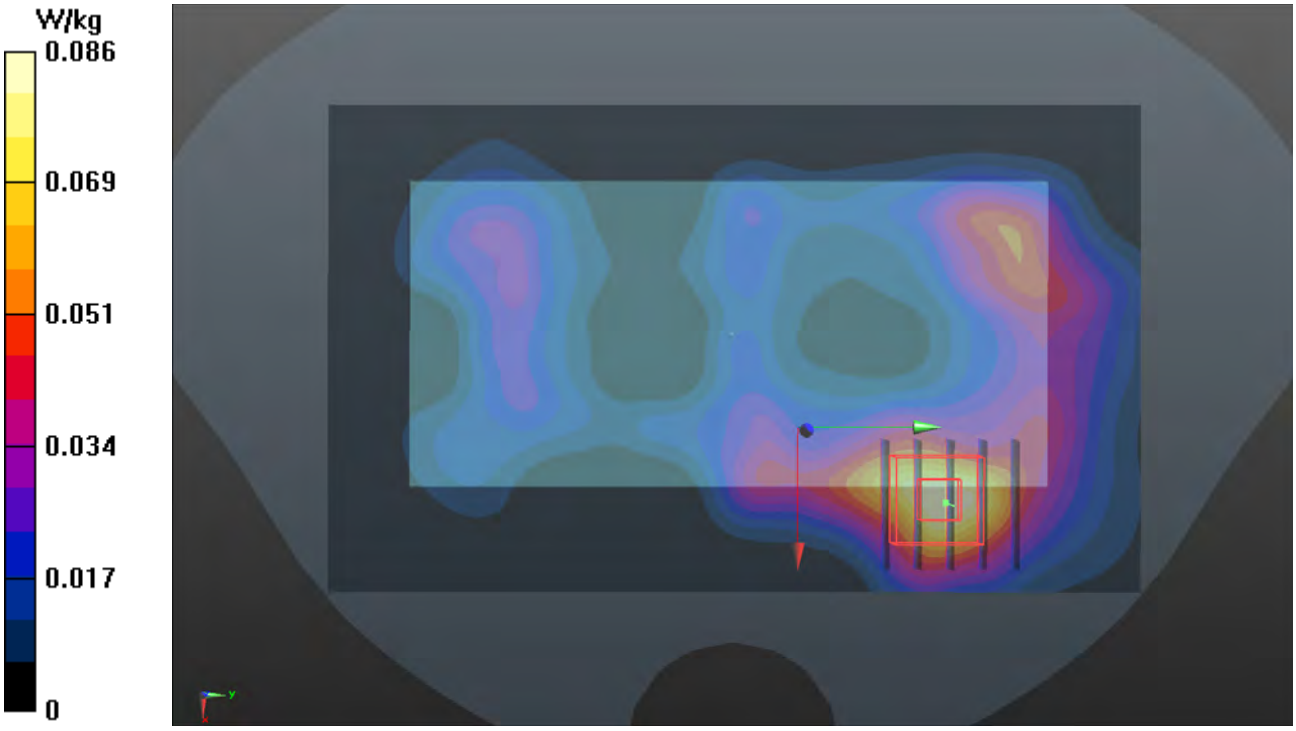
DUT: 190719C19

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0807 Medium parameters used: f = 2437 MHz; σ = 1.873 S/m; ε_r = 38.379; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.65, 7.65, 7.65); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0858 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.598 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.111 W/kg
SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.029 W/kg
Maximum value of SAR (measured) = 0.0898 W/kg



P29 WLAN5.3G_802.11n HT40_Rear Face_15mm_Ch54

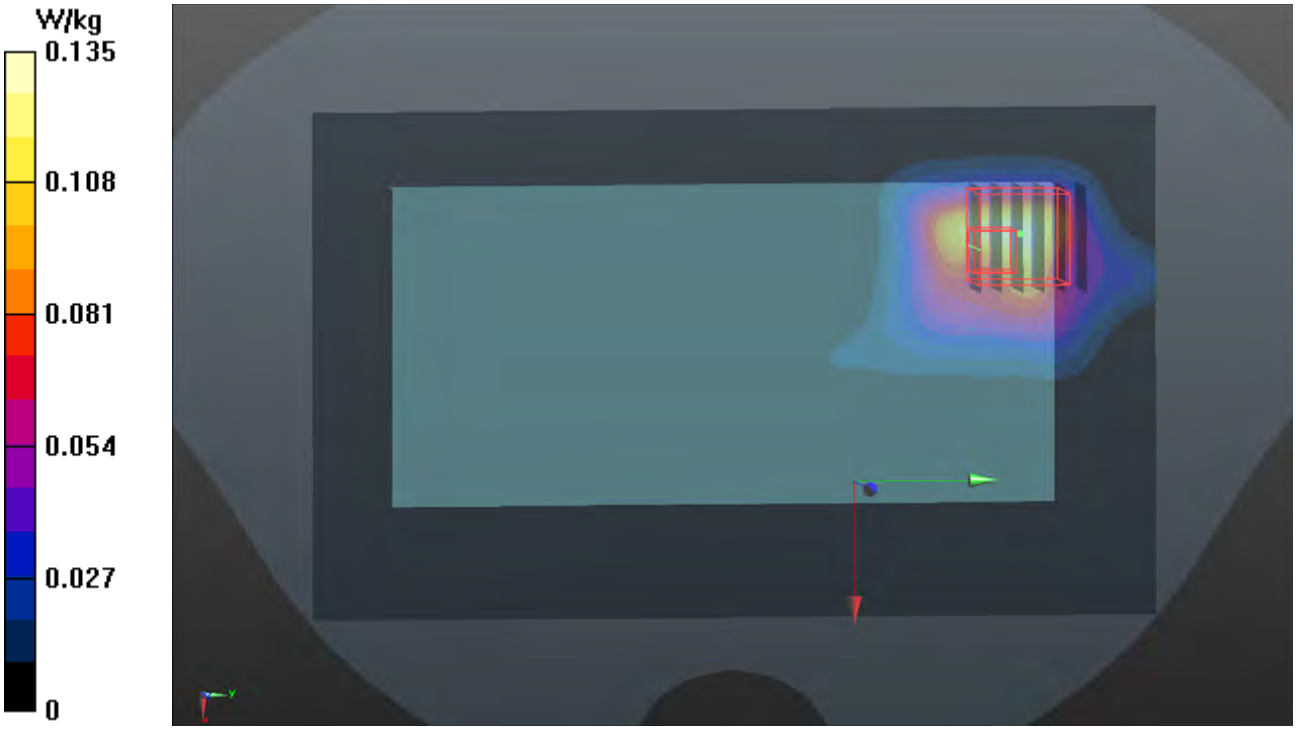
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5270 MHz;Duty Cycle: 1:1.02
Medium: H34T60N2_0807 Medium parameters used: f = 5270 MHz; σ = 4.82 S/m; ε_r = 35.236; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.135 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 4.446 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.217 W/kg
SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.010 W/kg
Maximum value of SAR (measured) = 0.0919 W/kg



P30 WLAN5.6G_802.11n HT40_Rear Face_15mm_Ch110

DUT: 190719C19

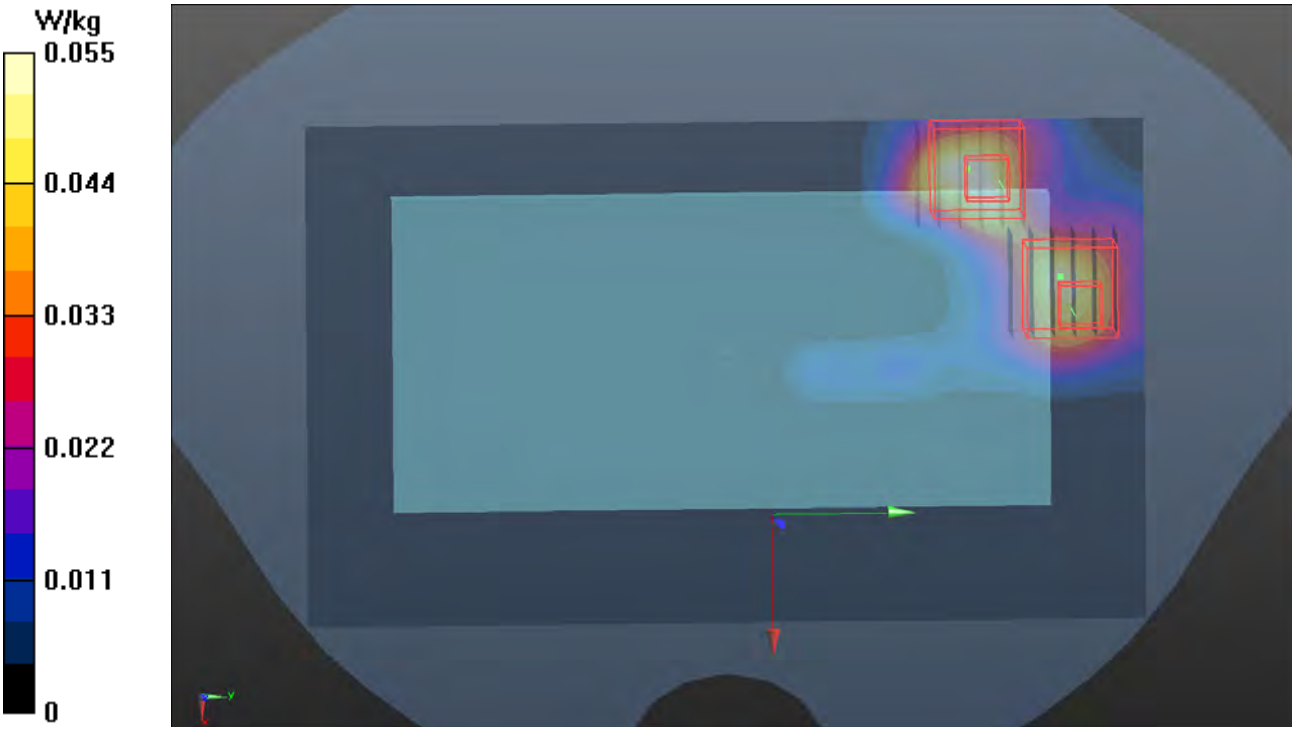
Communication System: WLAN_5G; Frequency: 5550 MHz;Duty Cycle: 1:1.02
Medium: H34T60N2_0807 Medium parameters used: f = 5550 MHz; σ = 5.124 S/m; ε_r = 34.738; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(4.78, 4.78, 4.78); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0549 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 3.164 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.117 W/kg
SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.00751 W/kg
Maximum value of SAR (measured) = 0.0596 W/kg

- Zoom Scan (6x6x12)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 3.164 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.118 W/kg
SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00589 W/kg
Maximum value of SAR (measured) = 0.0550 W/kg



P31 WLAN5.8G_802.11n HT40_Rear Face_15mm_Ch159

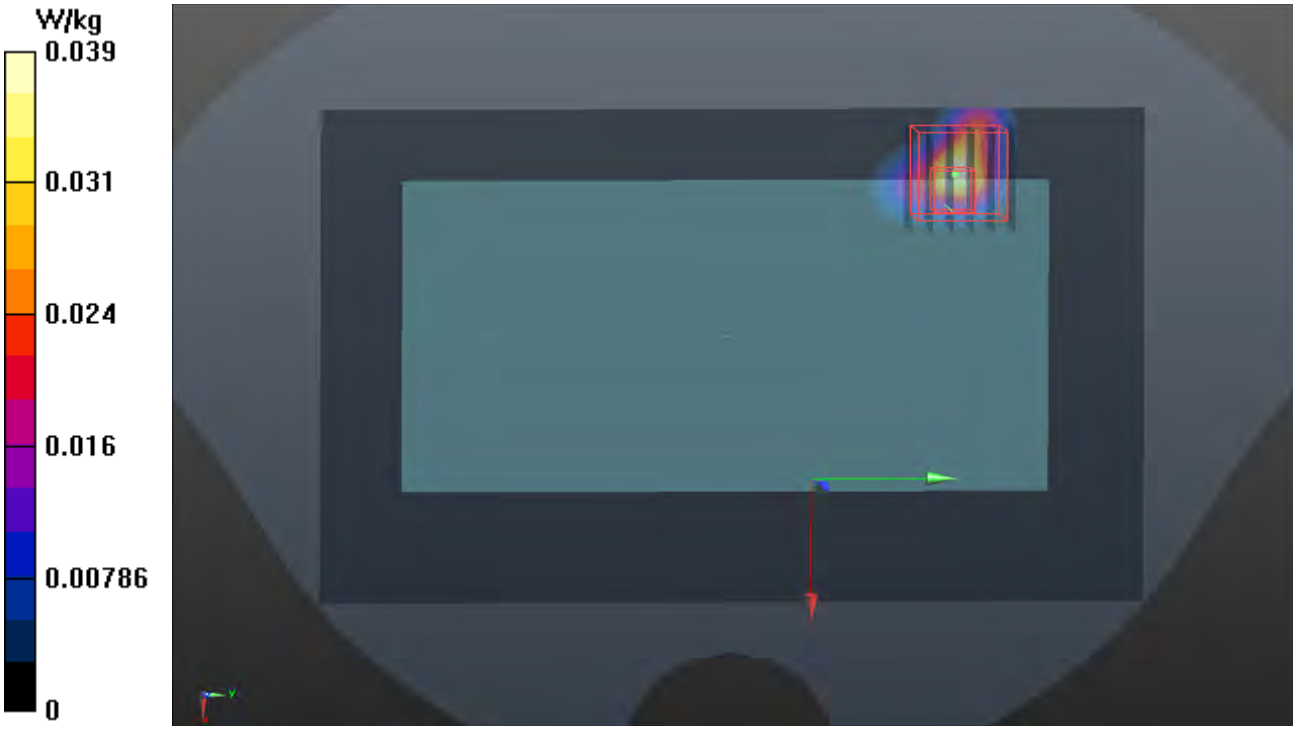
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5795 MHz;Duty Cycle: 1:1.02
Medium: H34T60N2_0807 Medium parameters used: f = 5795 MHz; σ = 5.394 S/m; ε_r = 34.305; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(4.92, 4.92, 4.92); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0393 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 2.305 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.0780 W/kg
SAR(1 g) = 0.00981 W/kg; SAR(10 g) = 0.00386 W/kg
Maximum value of SAR (measured) = 0.0317 W/kg



P32 BT_BDR_Front Face_15mm_Ch78

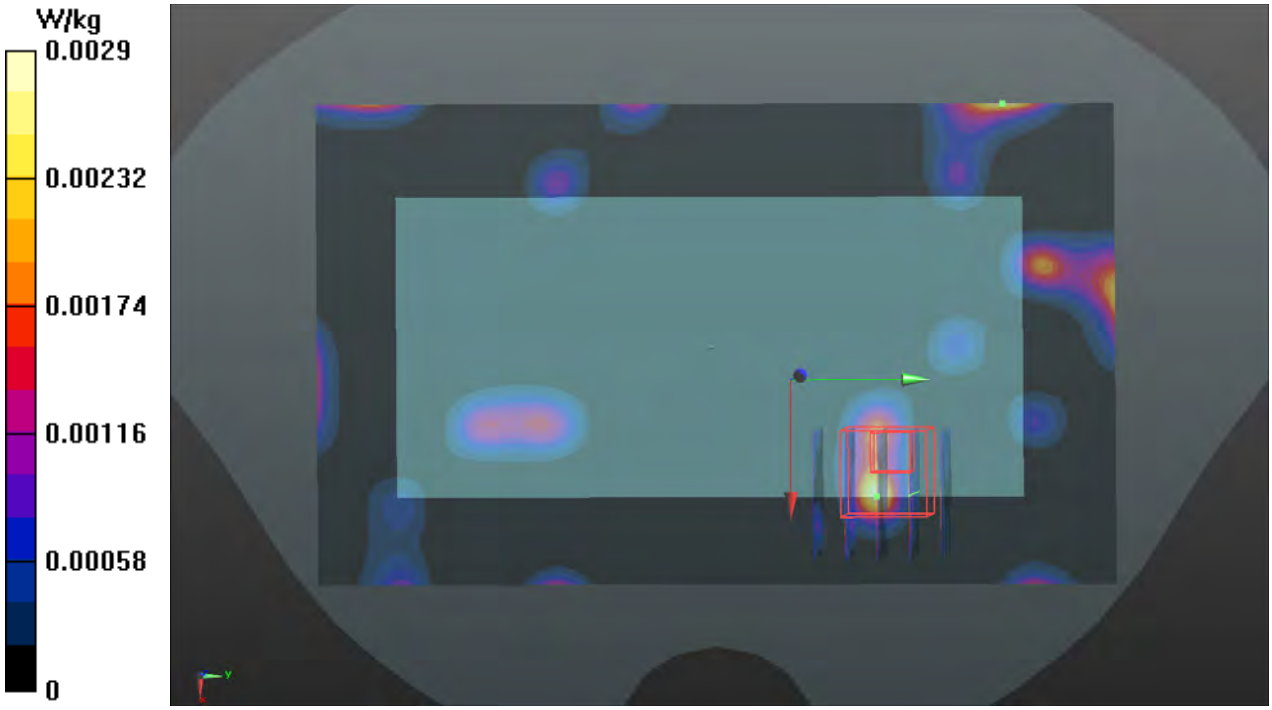
DUT: 190719C19

Communication System: BT; Frequency: 2480 MHz;Duty Cycle: 1:1
Medium: H19T27N2_0726 Medium parameters used: f = 2480 MHz; σ = 1.913 S/m; ε_r = 38.583; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.63, 7.63, 7.63); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: Twin SAM Phantom_1653; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00290 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.316 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.00500 W/kg
SAR(1 g) = 0.000798 W/kg; SAR(10 g) = 0.000179 W/kg
Maximum value of SAR (measured) = 0.00270 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/25

P33 GSM850_GPRS12_Rear Face_10mm_Ch128_Ant1

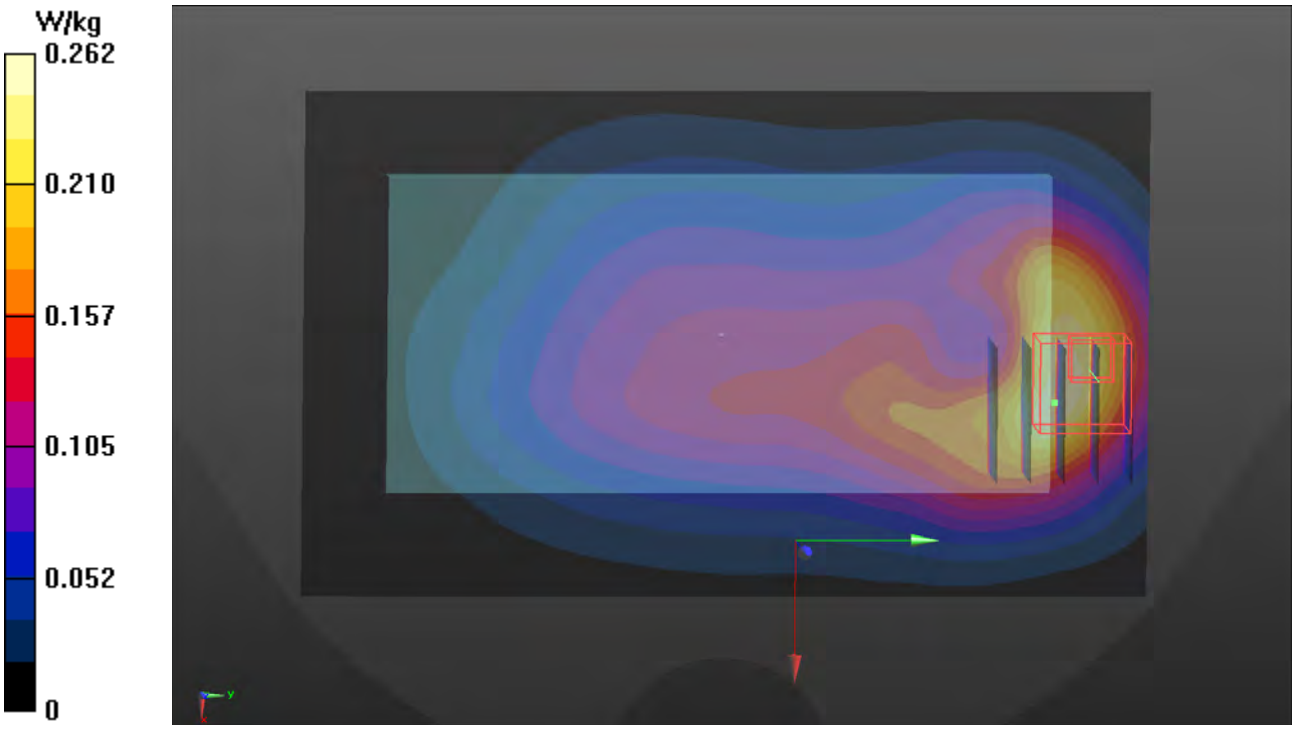
DUT: 190719C19

Communication System: GPRS12; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: H07T10N1_0725 Medium parameters used: f = 824.2 MHz; σ = 0.911 S/m; ε_r = 42.472; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(10.48, 10.48, 10.48); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.262 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.20 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.332 W/kg
SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.102 W/kg
Maximum value of SAR (measured) = 0.283 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/08/05

P34 GSM1900_GPRS12_Bottom Side_10mm_Ch810_Ant0

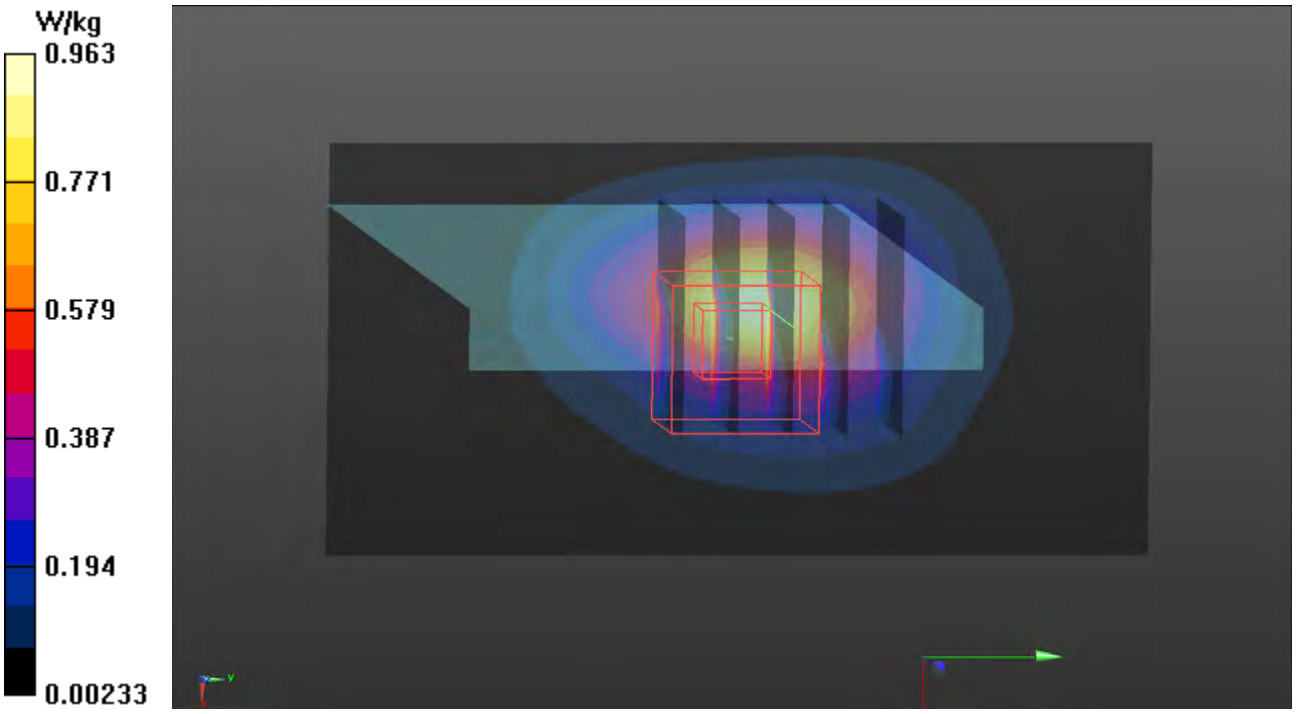
DUT: 190719C19

Communication System: GPRS12; Frequency: 1909.8 MHz;Duty Cycle: 1:2
Medium: H16T20N1_0805 Medium parameters used: f = 1909.8 MHz; σ = 1.457 S/m; ε_r = 39.212; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.13, 8.13, 8.13); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.963 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.79 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.06 W/kg
SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.265 W/kg
Maximum value of SAR (measured) = 1.06 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/08/05

P35 WCDMA II_RMC12.2K_Bottom Side_10mm_Ch9400_Ant0

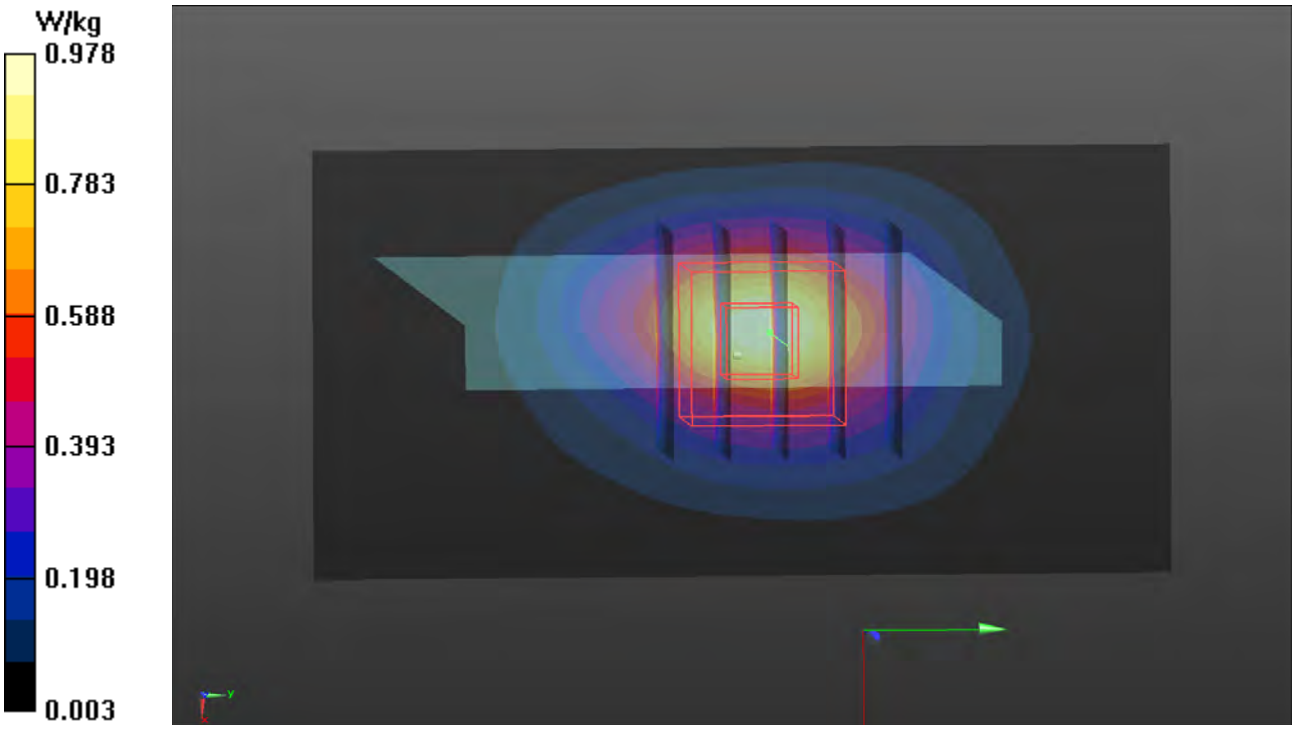
DUT: 190719C19

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1880 MHz; σ = 1.43 S/m; ε_r = 39.272; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.13, 8.13, 8.13); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.978 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.32 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.753 W/kg; SAR(10 g) = 0.380 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/08/05

P36 WCDMA IV_RMC12.2K_Bottom Side_10mm_Ch1413_Ant0

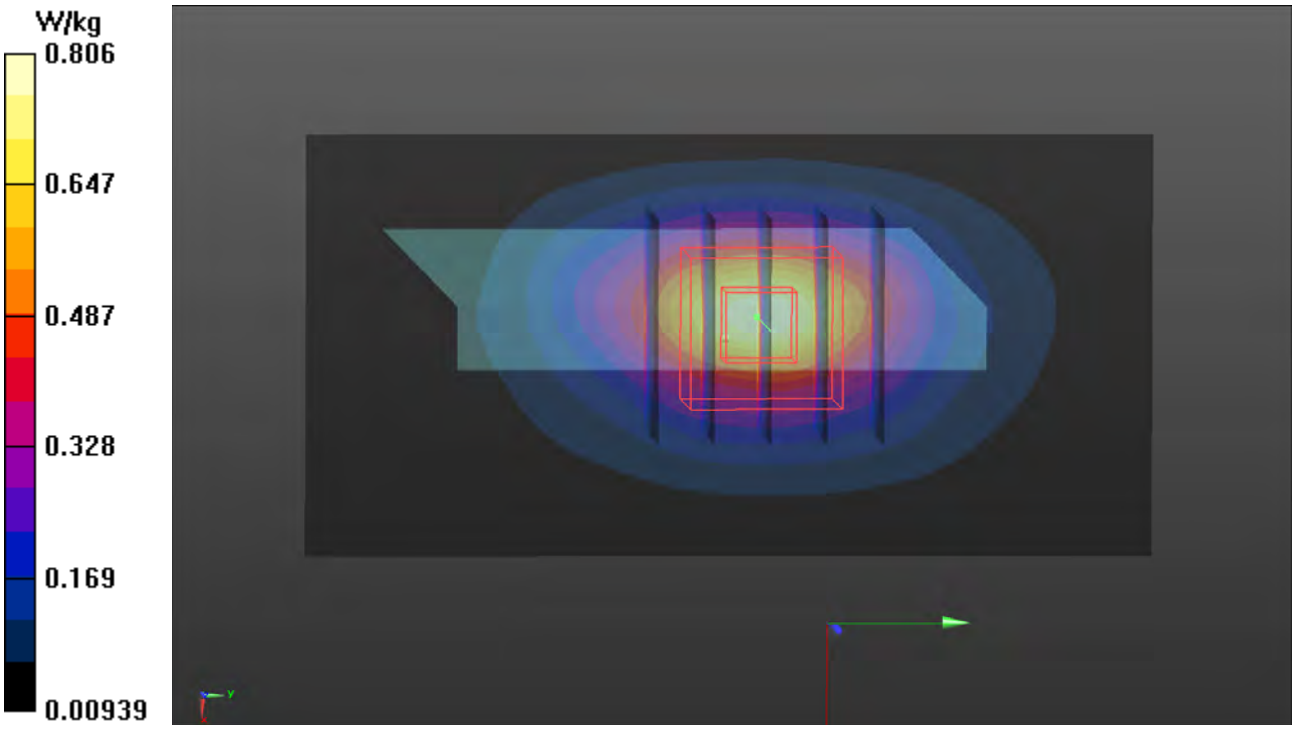
DUT: 190719C19

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1732.6 MHz; σ = 1.306 S/m; ε_r = 39.814; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.806 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.48 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.600 W/kg; SAR(10 g) = 0.313 W/kg
Maximum value of SAR (measured) = 0.905 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/25

P37 WCDMA V_RMC12.2K_Rear Face_10mm_Ch4233_Ant1

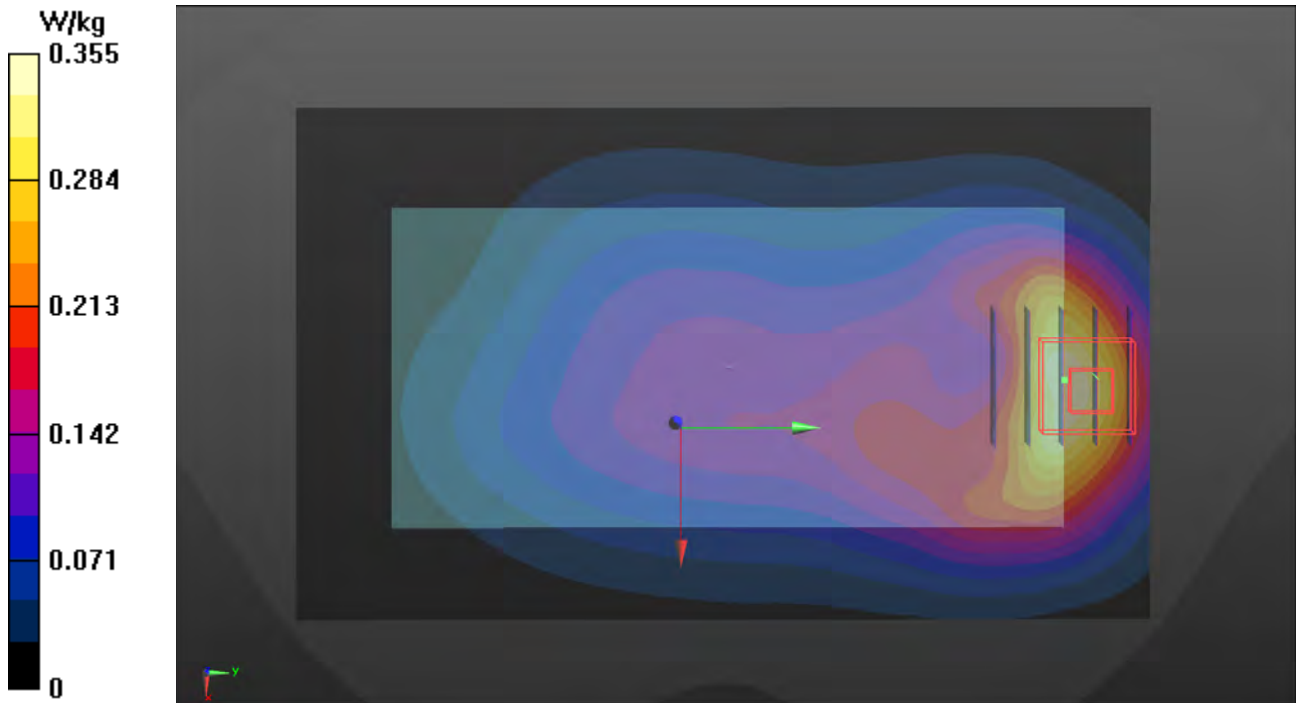
DUT: 190719C19

Communication System: WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: H07T10N1_0725 Medium parameters used: f = 846.6 MHz; σ = 0.932 S/m; ε_r = 42.18; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(10.48, 10.48, 10.48); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.355 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.31 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.499 W/kg
SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.146 W/kg
Maximum value of SAR (measured) = 0.385 W/kg



P38 LTE 2_QPSK20M_Bottom Side_10mm_Ch19100_1RB_OS0_Ant0

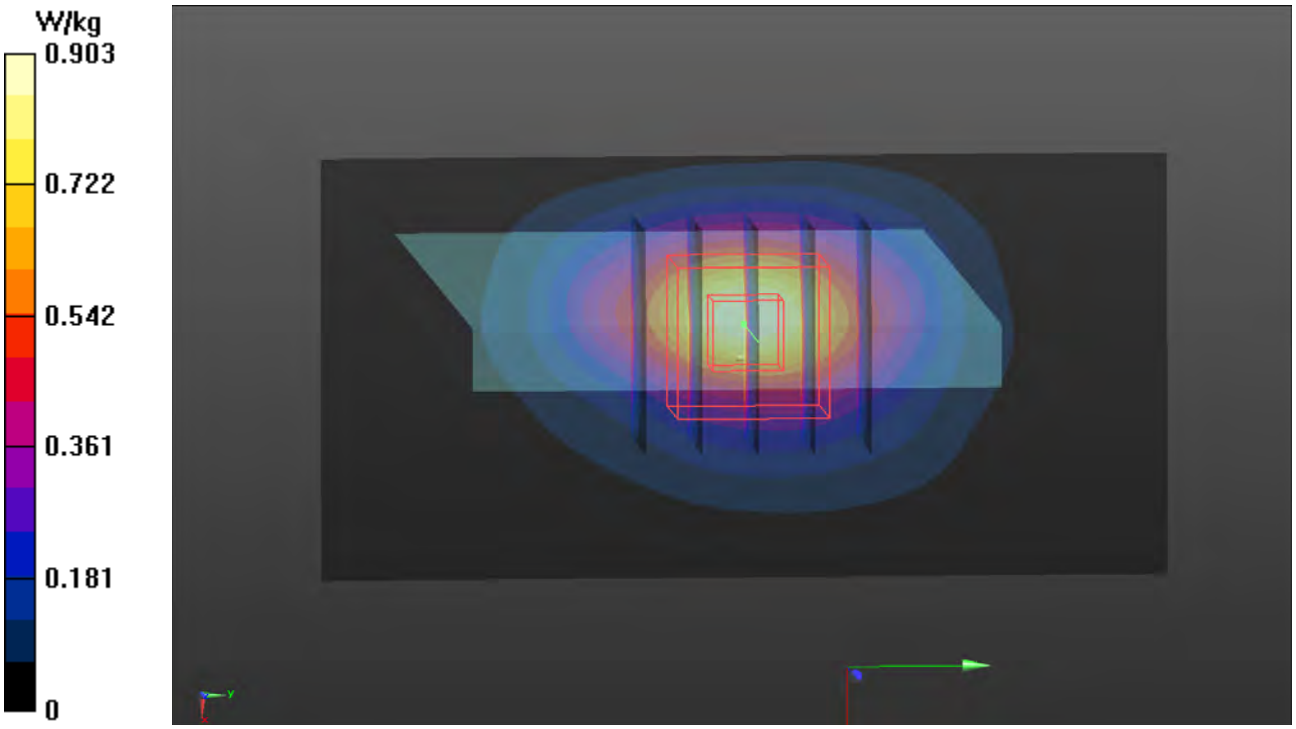
DUT: 190719C19

Communication System: LTE; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1900 MHz; σ = 1.447 S/m; ε_r = 39.229; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.13, 8.13, 8.13); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.903 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.02 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.342 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/08/05

P39 LTE 4_QPSK20M_Bottom Side_10mm_Ch20300_1RB_OS0_Ant0

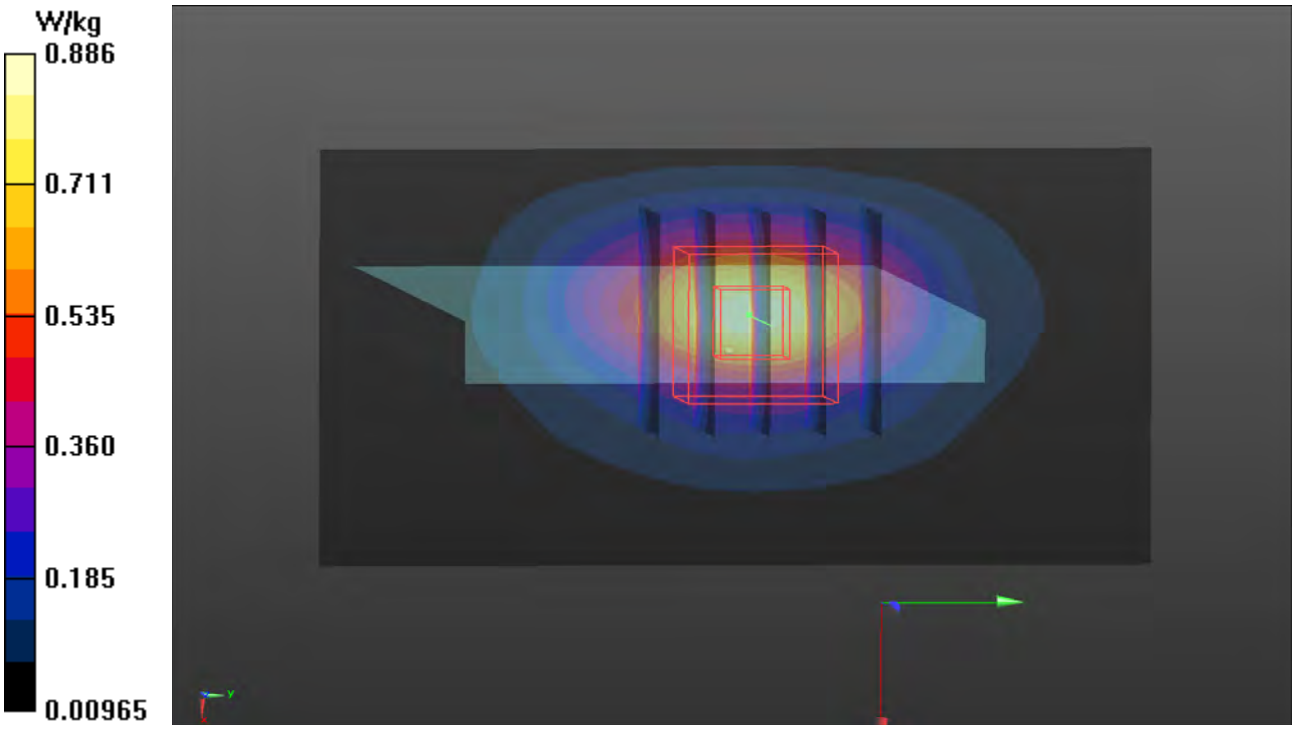
DUT: 190719C19

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0805 Medium parameters used: f = 1745 MHz; σ = 1.316 S/m; ε_r = 39.767; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.886 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.35 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.337 W/kg
Maximum value of SAR (measured) = 0.966 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2019/07/25

P40 LTE 5_QPSK10M_Rear Face_10mm_Ch20450_1RB_OS0_Ant1

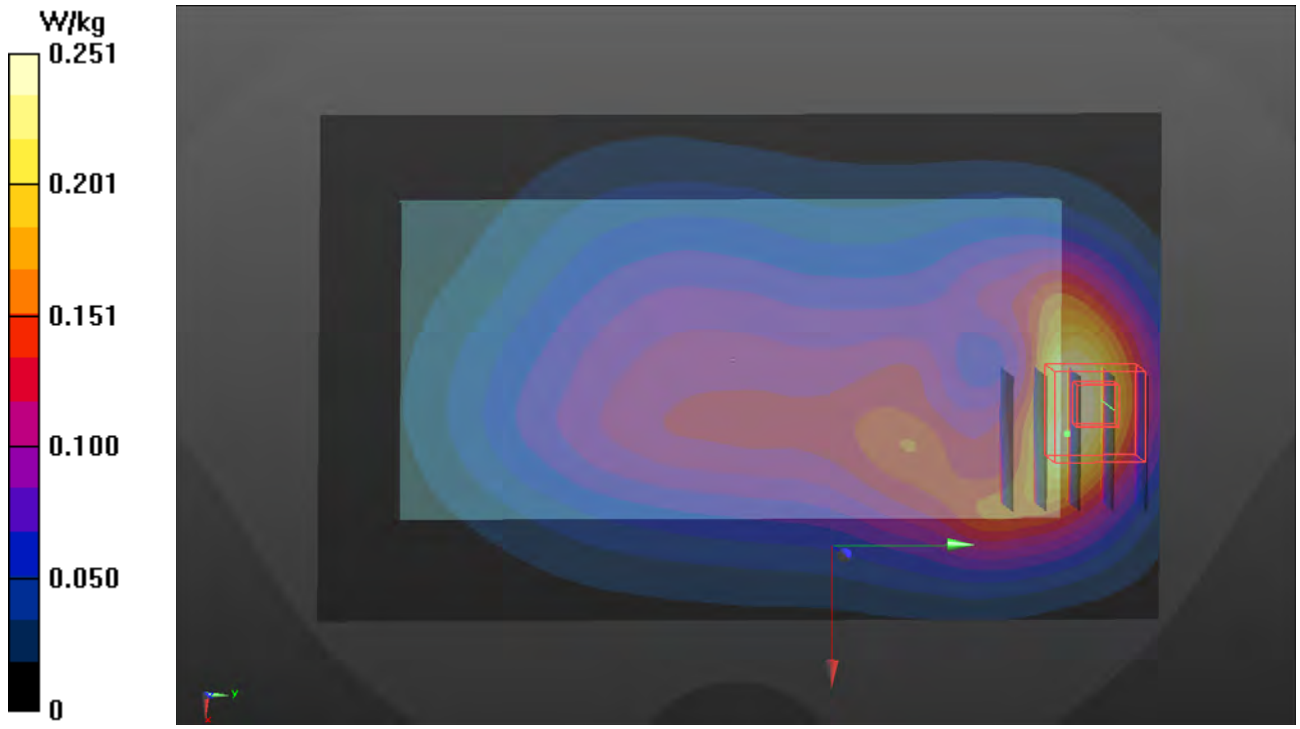
DUT: 190719C19

Communication System: LTE; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: H07T10N1_0725 Medium parameters used: f = 829 MHz; σ = 0.915 S/m; ε_r = 42.404; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(10.48, 10.48, 10.48); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.251 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.96 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.312 W/kg
SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.095 W/kg
Maximum value of SAR (measured) = 0.249 W/kg



P41 LTE 7_QPSK20M_Bottom Side_10mm_Ch20850_1RB_OS50_Ant0

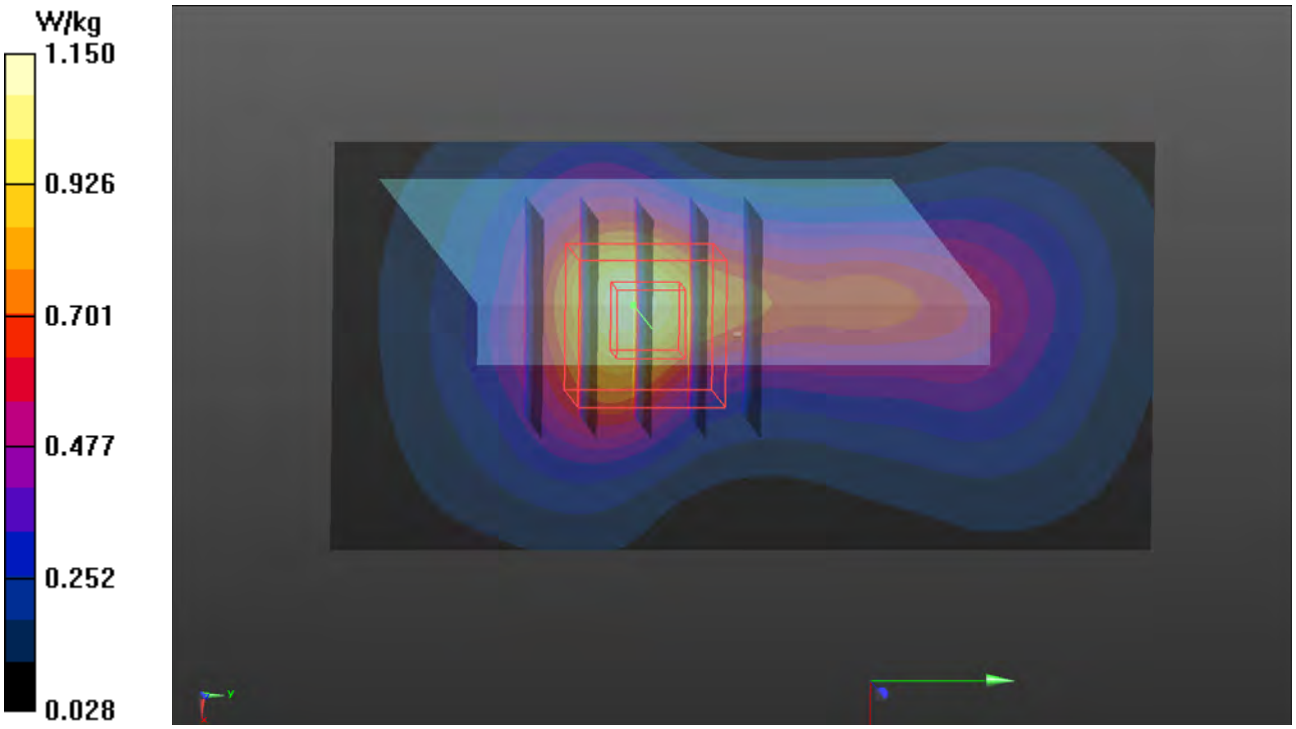
DUT: 190719C19

Communication System: LTE; Frequency: 2510 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0806 Medium parameters used: f = 2510 MHz; σ = 1.933 S/m; ε_r = 38.906; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.19, 7.19, 7.19); Calibrated: 2019/06/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2019/06/07
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax; Serial: 1982
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.93 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.419 W/kg
Maximum value of SAR (measured) = 1.26 W/kg



P42 LTE 38_QPSK20M_Bottom Side_10mm_Ch37850_1RB_OS0_Ant0

DUT: 190719C19

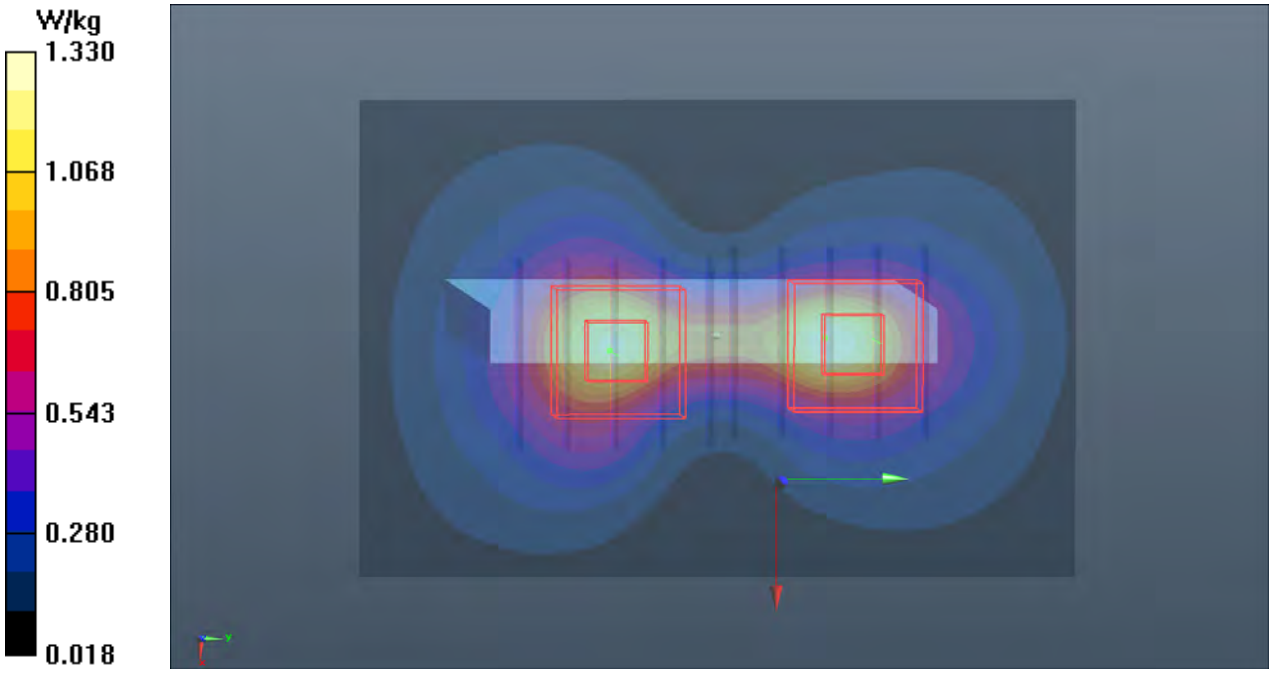
Communication System: LTE TDD CF0; Frequency: 2580 MHz;Duty Cycle: 1:1.58
Medium: H19T27N1_0729 Medium parameters used: f = 2580 MHz; σ = 2.012 S/m; ε_r = 37.83; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(7.53, 7.53, 7.53); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.33 W/kg

- Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.42 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.421 W/kg
Maximum value of SAR (measured) = 1.32 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.42 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.361 W/kg
Maximum value of SAR (measured) = 1.31 W/kg



P43 WLAN2.4G_802.11b_Right Side_10mm_Ch6

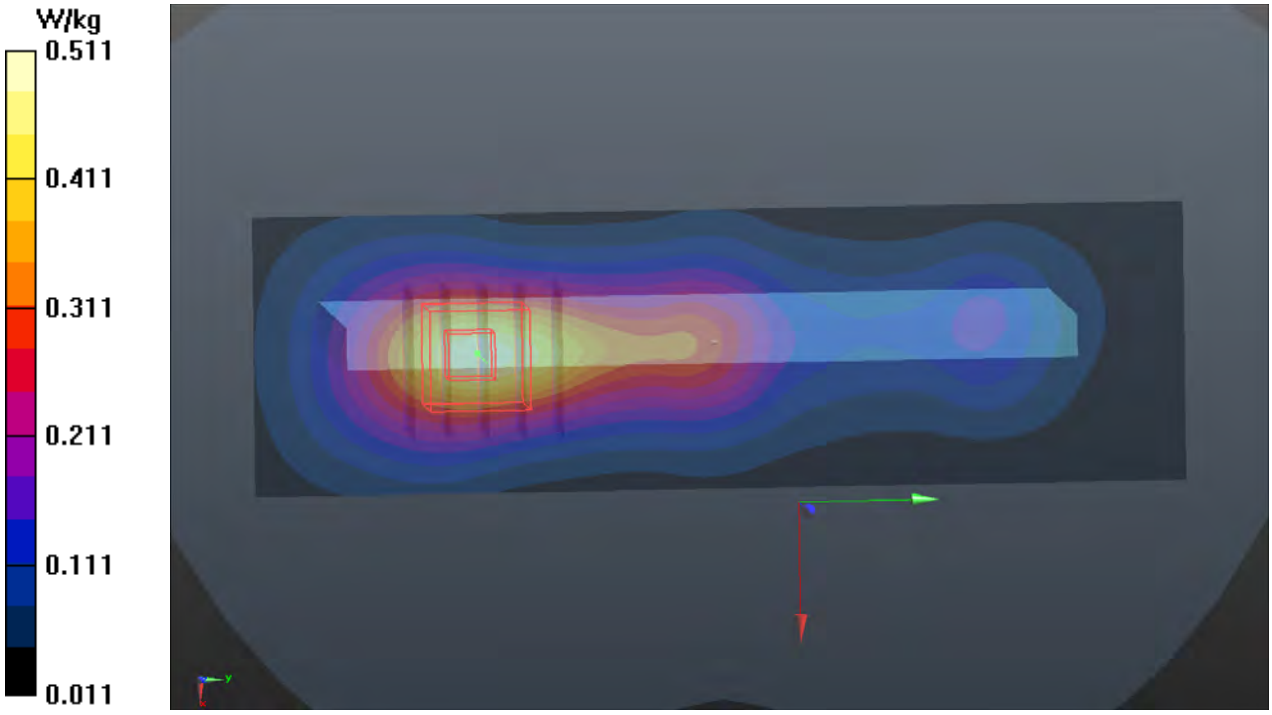
DUT: 190719C19

Communication System: WLAN_2.4G; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0731 Medium parameters used: f = 2437 MHz; σ = 1.871 S/m; ε_r = 38.384; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7472; ConvF(7.71, 7.71, 7.71); Calibrated: 2018/08/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2018/08/27
- Phantom: Twin SAM Phantom_1823; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (51x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.511 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.93 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.982 W/kg



P44 WLAN5.2G_802.11a_Right Side_10mm_Ch48

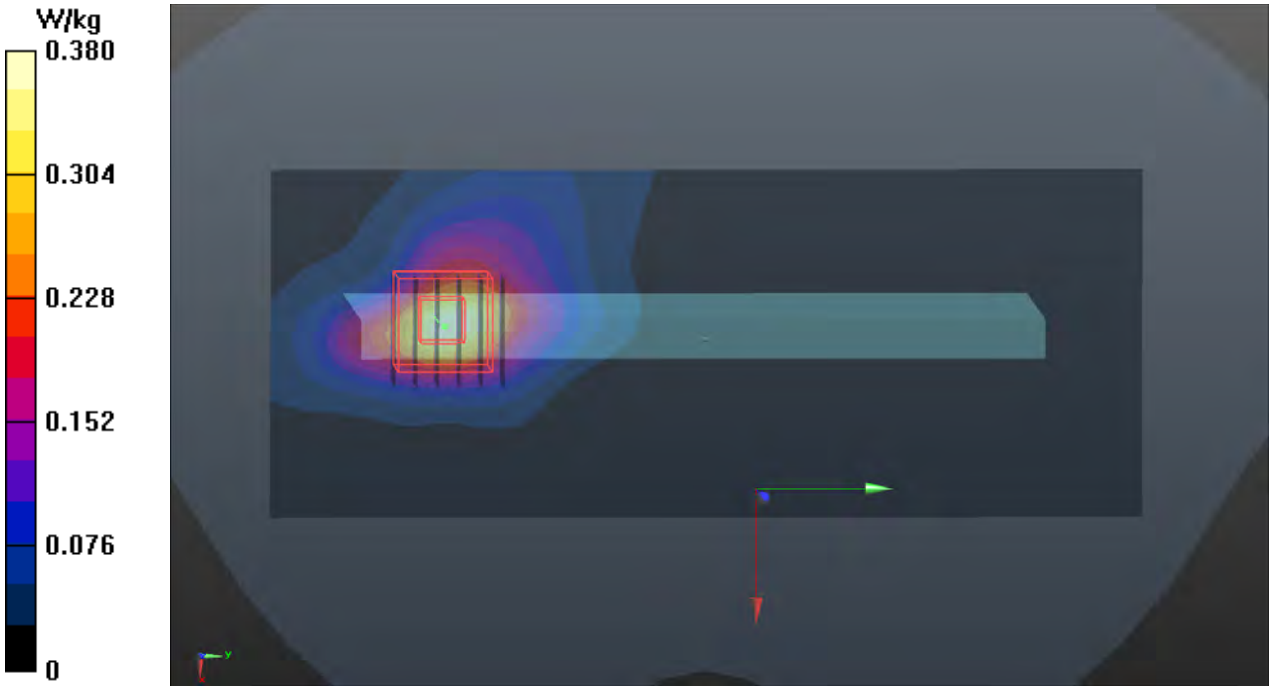
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5240 MHz;Duty Cycle: 1:1.04
Medium: H34T60N1_0731 Medium parameters used: f = 5240 MHz; σ = 4.778 S/m; ε_r = 35.119; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(5.4, 5.4, 5.4); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: Twin SAM Phantom_1653; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.380 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 9.288 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.669 W/kg
SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.069 W/kg
Maximum value of SAR (measured) = 0.412 W/kg



P45 WLAN5.8G_802.11a_Right Side_10mm_Ch149

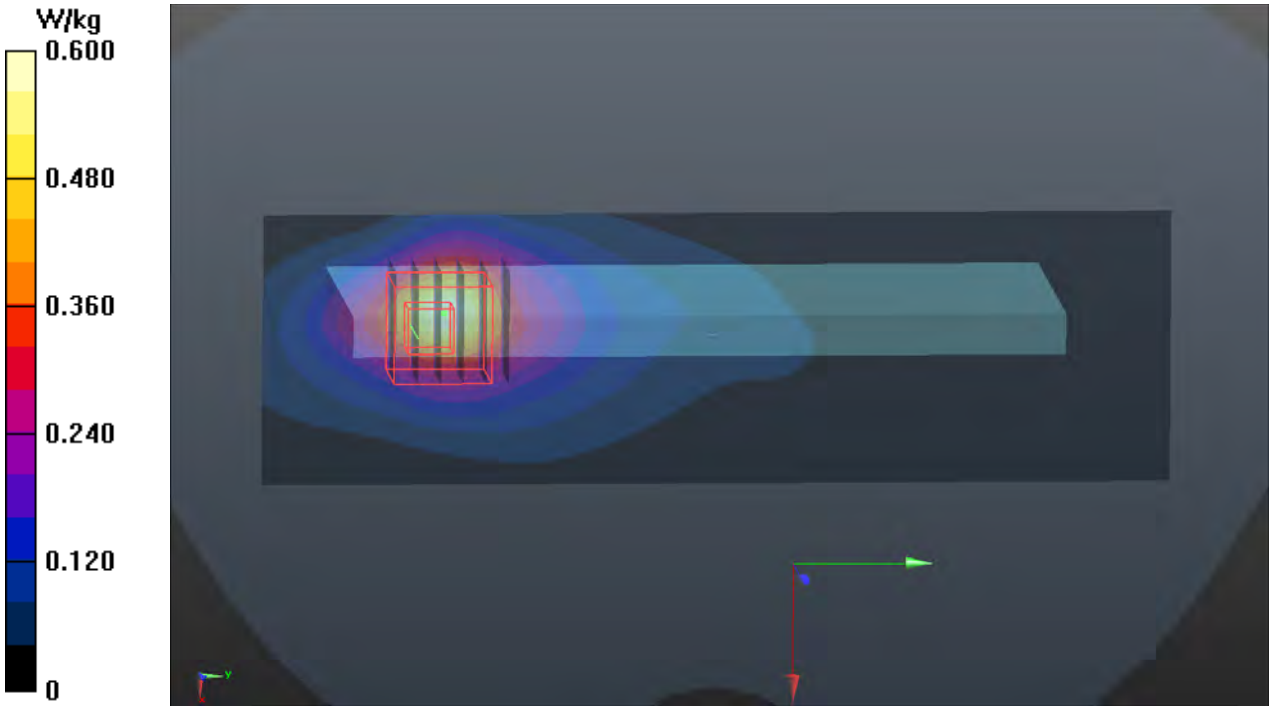
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5745 MHz;Duty Cycle: 1:1.04
Medium: H34T60N2_0727 Medium parameters used: f = 5745 MHz; σ = 5.099 S/m; ε_r = 36.415; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(5.17, 5.17, 5.17); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: Twin SAM Phantom_1653; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (61x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.600 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 11.85 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.111 W/kg
Maximum value of SAR (measured) = 0.678 W/kg



P46 BT_BDR_Right Side_10mm_Ch78

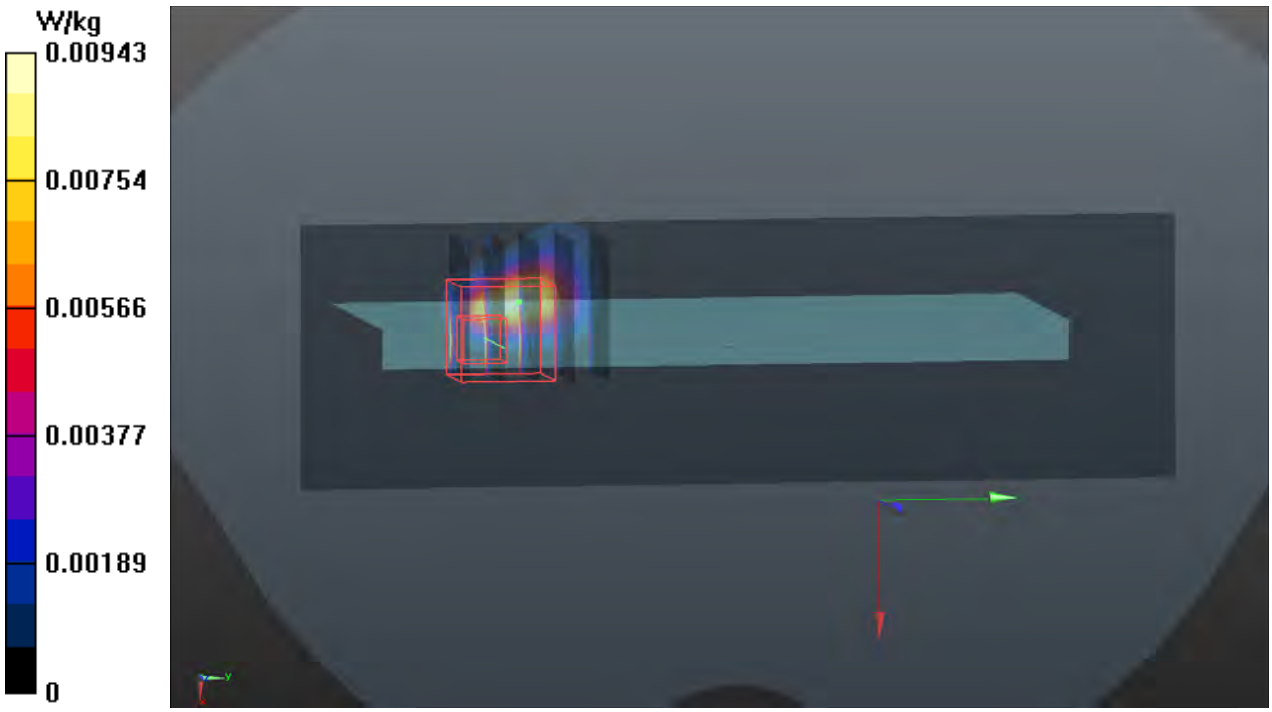
DUT: 190719C19

Communication System: BT; Frequency: 2480 MHz;Duty Cycle: 1:1
Medium: H19T27N2_0726 Medium parameters used: f = 2480 MHz; σ = 1.913 S/m; ε_r = 38.583; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(7.63, 7.63, 7.63); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: Twin SAM Phantom_1653; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (51x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00943 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.085 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.0190 W/kg
SAR(1 g) = 0.00583 W/kg; SAR(10 g) = 0.00146 W/kg
Maximum value of SAR (measured) = 0.0138 W/kg



P47 GSM1900_GPRS12_Bottom Side_0mm_Ch810_Ant0

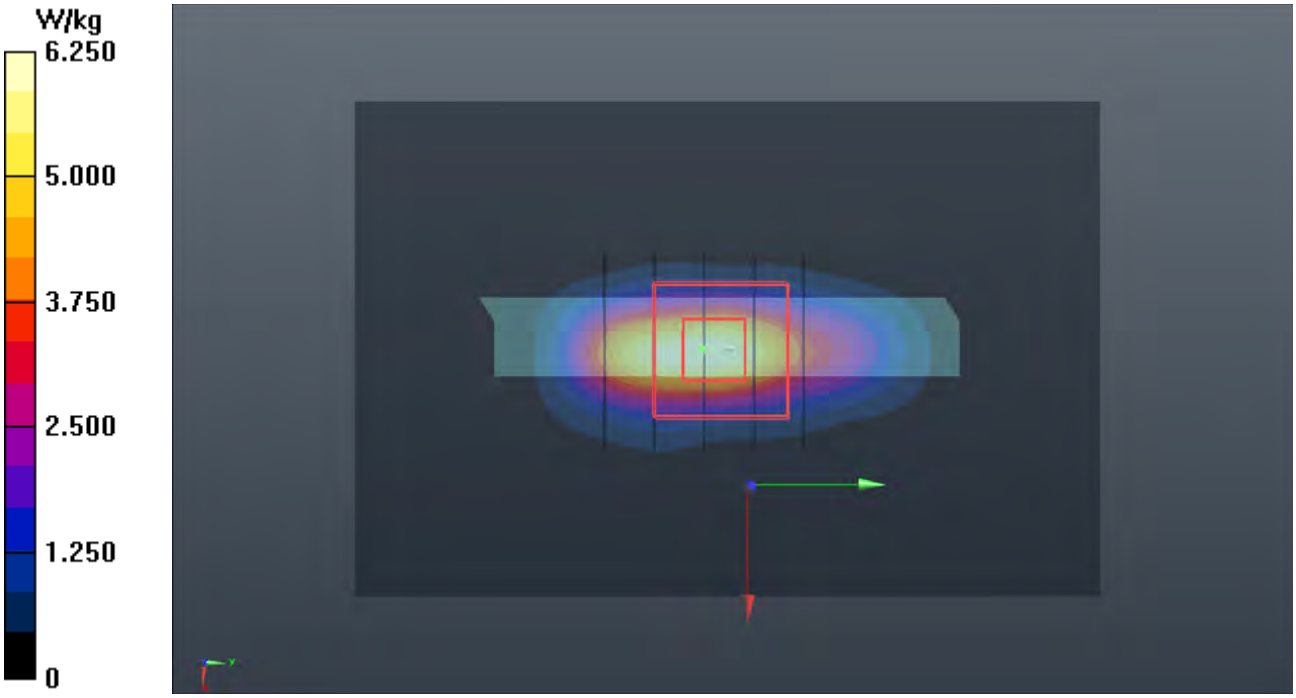
DUT: 190719C19

Communication System: GPRS12; Frequency: 1909.8 MHz;Duty Cycle: 1:2
Medium: H16T20N1_0808 Medium parameters used: f = 1910 MHz; σ = 1.469 S/m; ε_r = 39.099; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.47, 8.47, 8.47); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 6.25 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 66.54 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 7.77 W/kg
SAR(1 g) = 3.13 W/kg; SAR(10 g) = 1.16 W/kg
Maximum value of SAR (measured) = 6.61 W/kg



P48 WCDMA II_RMC12.2K_Rear Face_0mm_Ch9262_Ant0

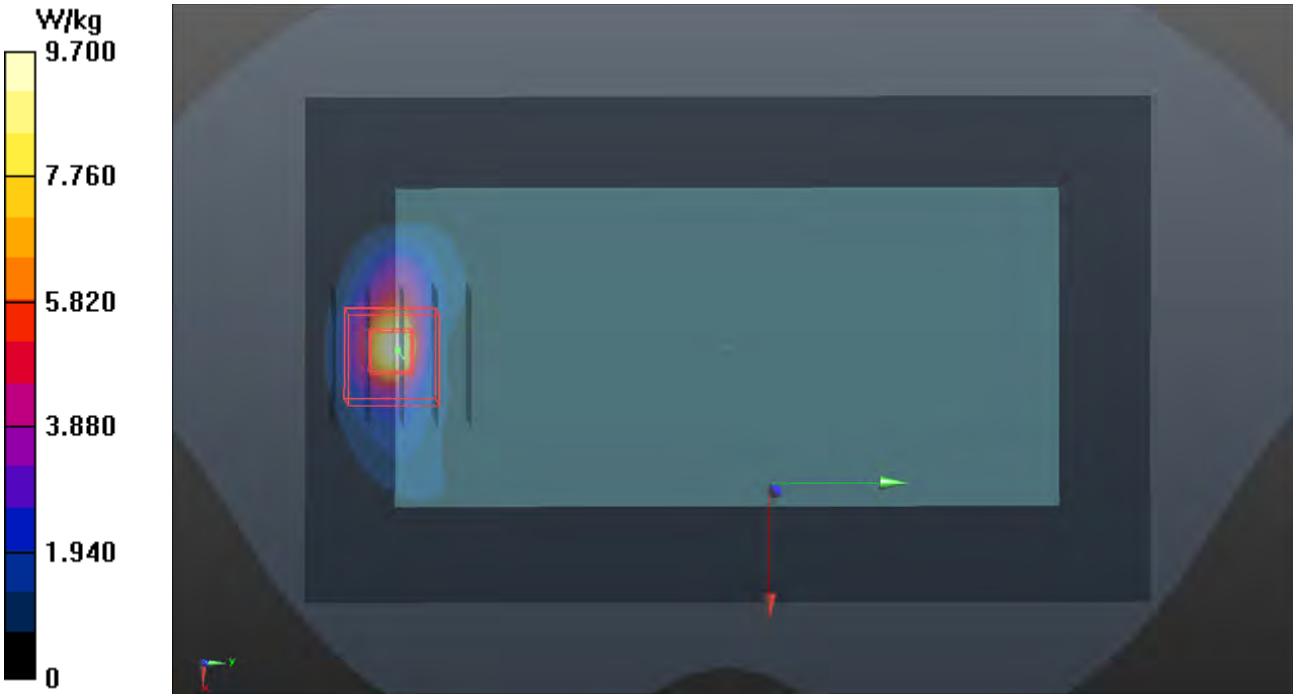
DUT: 190719C19

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0808 Medium parameters used: f = 1852.4 MHz; σ = 1.424 S/m; ε_r = 39.289; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.47, 8.47, 8.47); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.70 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 84.57 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 12.7 W/kg
SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 10.0 W/kg



P49 WCDMA IV_RMC12.2K_Bottom Side_0mm_Ch1413_Ant0

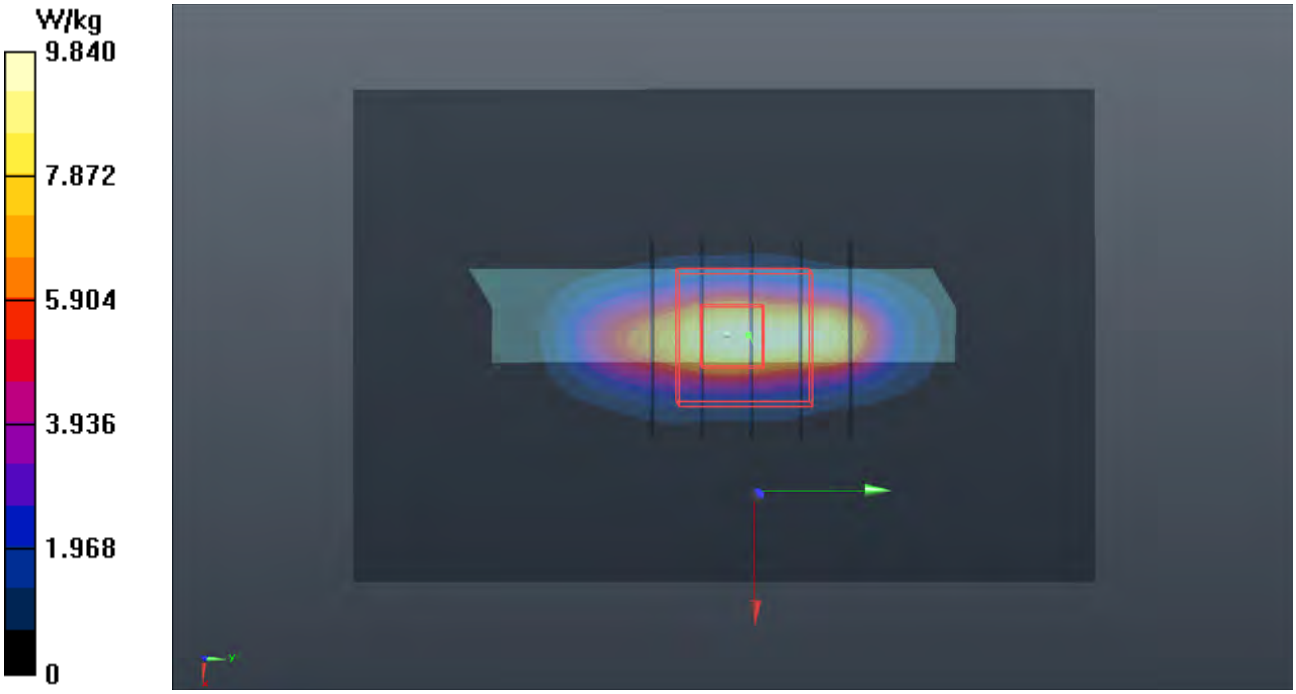
DUT: 190719C19

Communication System: WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0808 Medium parameters used: f = 1733 MHz; σ = 1.318 S/m; ε_r = 39.719; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.8, 8.8, 8.8); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.84 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 87.77 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 11.0 W/kg
SAR(1 g) = 4.97 W/kg; SAR(10 g) = 2.19 W/kg
Maximum value of SAR (measured) = 9.05 W/kg



P50 LTE 2_QPSK20M_Rear Face_0mm_Ch18700_1RB_OS0_Ant0

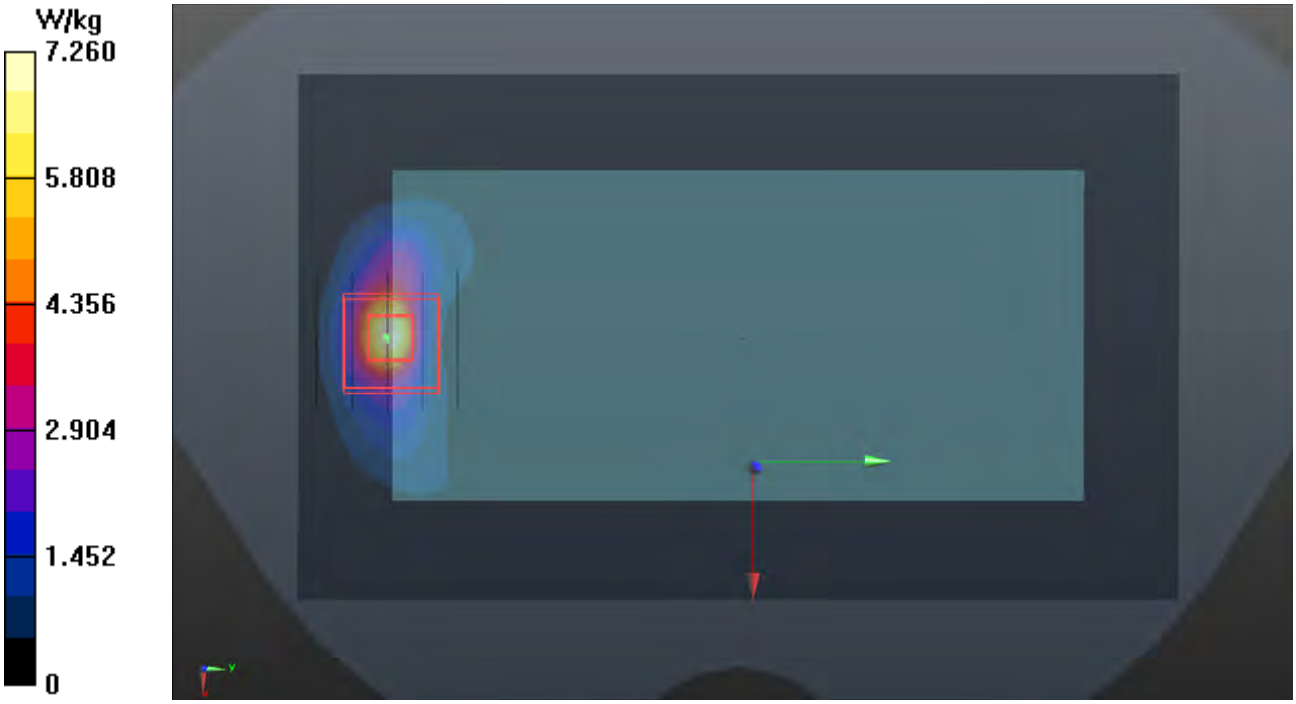
DUT: 190719C19

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0808 Medium parameters used: f = 1860 MHz; σ = 1.432 S/m; ε_r = 39.263; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.47, 8.47, 8.47); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.26 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 72.82 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 9.09 W/kg
SAR(1 g) = 4.32 W/kg; SAR(10 g) = 1.9 W/kg
Maximum value of SAR (measured) = 7.22 W/kg



P51 LTE 4_QPSK20M_Bottom Side_0mm_Ch20050_1RB_OS0_Ant0

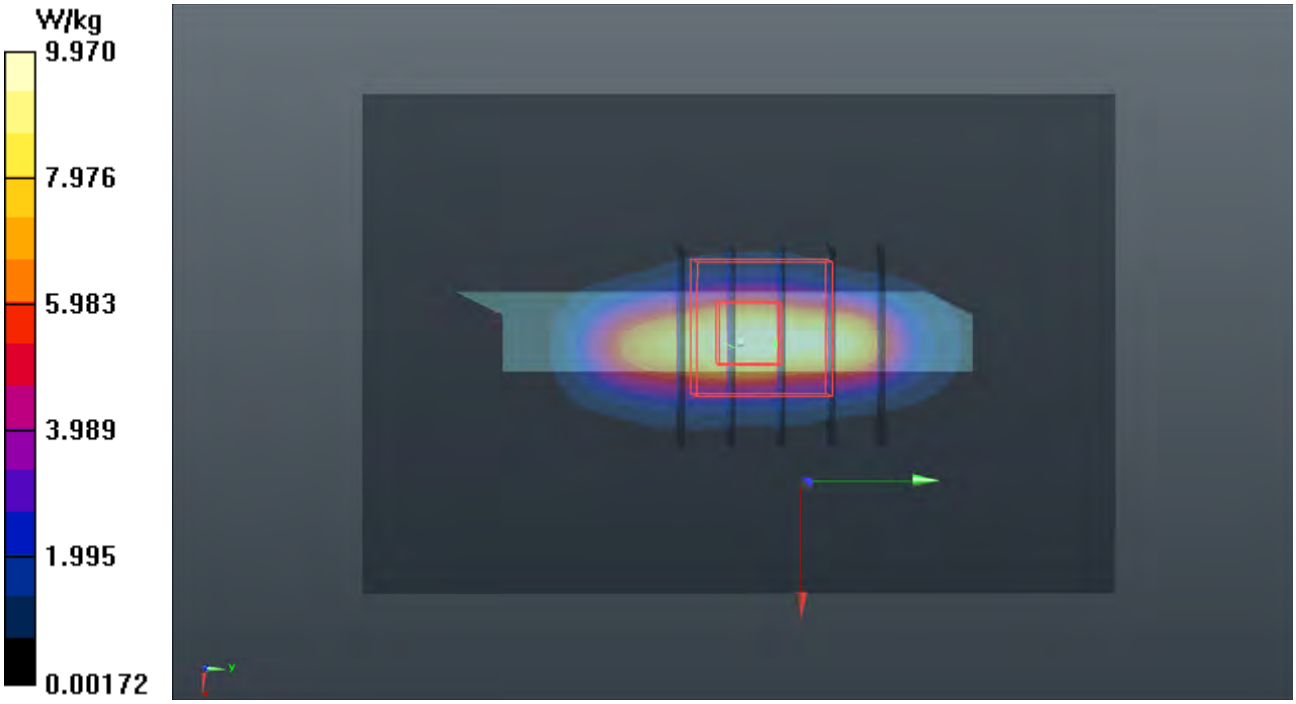
DUT: 190719C19

Communication System: LTE; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: H16T20N1_0808 Medium parameters used: f = 1720 MHz; σ = 1.306 S/m; ε_r = 39.772; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(8.8, 8.8, 8.8); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.97 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 88.90 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 12.2 W/kg
SAR(1 g) = 5.32 W/kg; SAR(10 g) = 2.35 W/kg
Maximum value of SAR (measured) = 9.67 W/kg



P52 LTE 7_QPSK20M_Bottom Side_0mm_Ch20850_1RB_OS0_Ant0

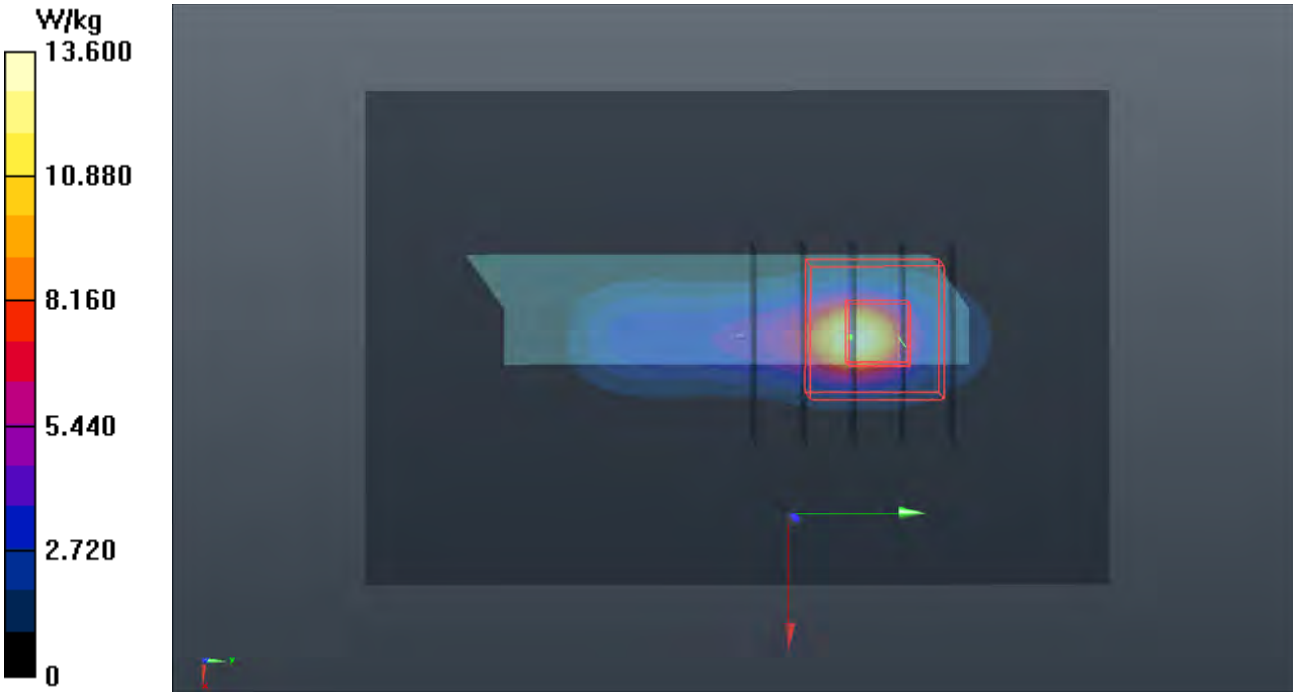
DUT: 190719C19

Communication System: LTE; Frequency: 2510 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0808 Medium parameters used: f = 2510 MHz; σ = 1.944 S/m; ε_r = 38.866; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3971; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/03/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2019/03/25
- Phantom: Twin SAM Phantom_1496; Type: QD000P40CB;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (71x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 13.6 W/kg

- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 86.02 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 21.4 W/kg
SAR(1 g) = 7.21 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 16.4 W/kg



P53 WLAN5.3G_802.11a_Right Side_0mm_Ch60

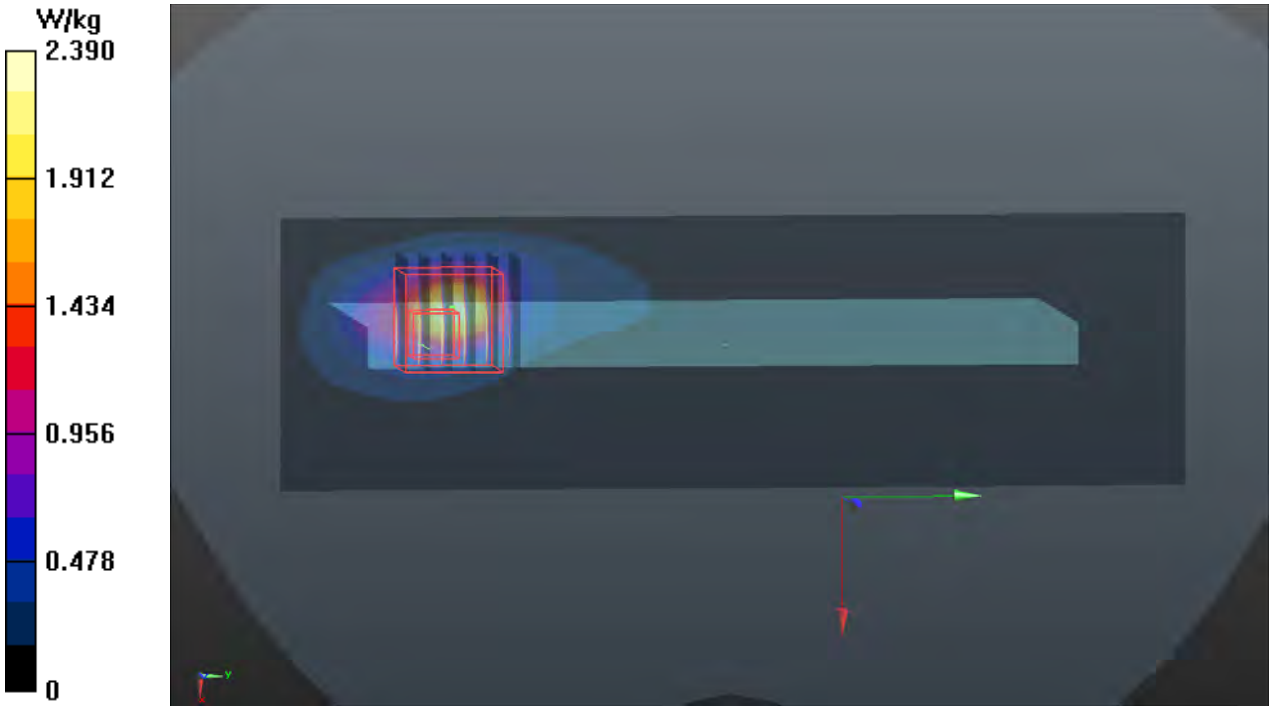
DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5300 MHz;Duty Cycle: 1:1.04
Medium: H34T60N2_0727 Medium parameters used: f = 5300 MHz; σ = 4.651 S/m; ε_r = 36.687; ρ = 1000 kg/m^3
Ambient Temperature：23.8 ℃ ; Liquid Temperature：23.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(5.4, 5.4, 5.4); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: Twin SAM Phantom_1653; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (61x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.39 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 25.44 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 18.2 W/kg
SAR(1 g) = 3.16 W/kg; SAR(10 g) = 0.737 W/kg
Maximum value of SAR (measured) = 8.71 W/kg

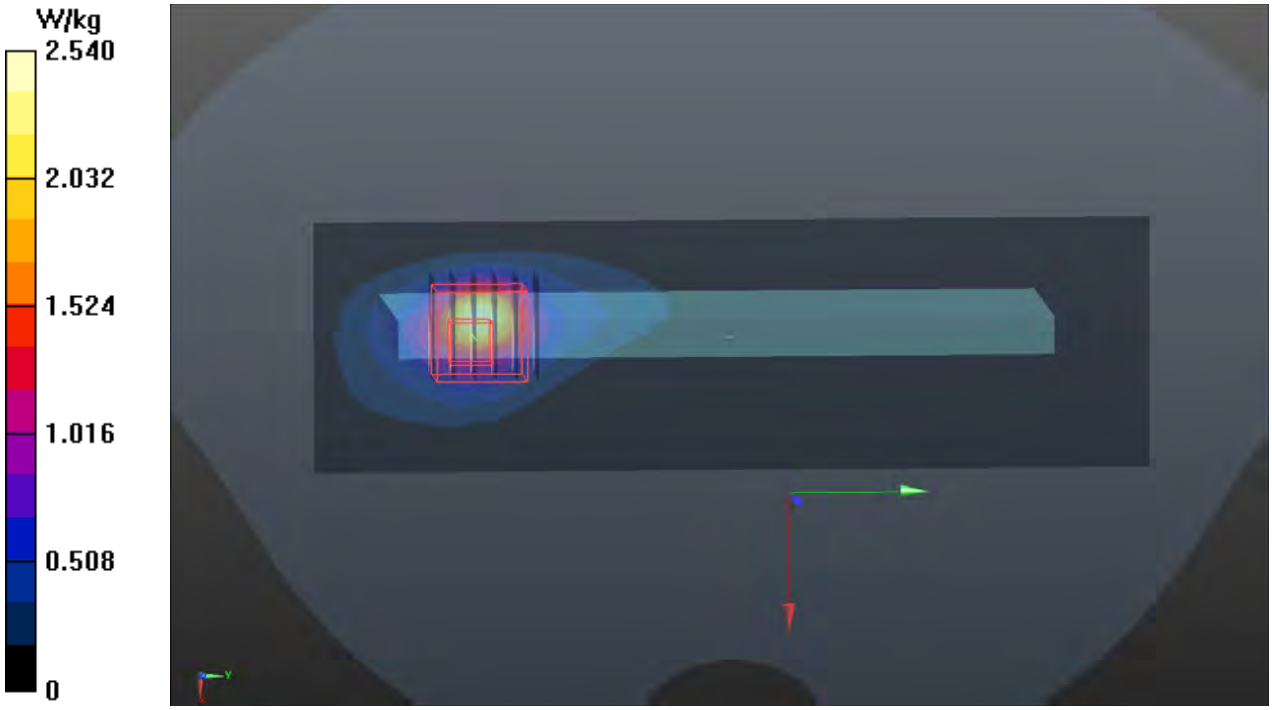


P54 WLAN5.6G_802.11a_Right Side_0mm_Ch116

DUT: 190719C19

Communication System: WLAN_5G; Frequency: 5580 MHz;Duty Cycle: 1:1.04
Medium: H34T60N1_0726 Medium parameters used: f = 5580 MHz; σ = 5.051 S/m; ε_r = 35.015; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃ ; Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3650; ConvF(4.9, 4.9, 4.9); Calibrated: 2019/05/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn861; Calibrated: 2019/05/08
- Phantom: Twin SAM Phantom_1653; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

- Area Scan (61x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.54 W/kg

- Zoom Scan (6x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm
Reference Value = 23.64 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 34.8 W/kg
SAR(1 g) = 5.75 W/kg; SAR(10 g) = 1.33 W/kg
Maximum value of SAR (measured) = 15.3 W/kg