Appendix B. SAR Measurement Plots

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 GSM850 251CH Left hand touch cheek

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 848.8 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 849 MHz; σ = 0.949 S/m; ε_r = 41.067; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.26, 6.26, 6.26); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
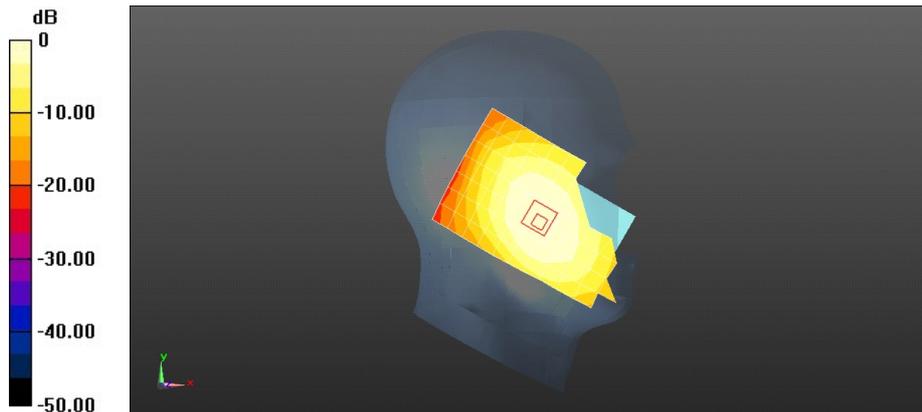
Maximum value of SAR (measured) = 0.410 W/kg

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

Reference Value = 5.929 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.290 W/kg

Maximum value of SAR (measured) = 0.418 W/kg

0 dB = 0.410 W/kg = -3.88 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 GSM850 190CH Back Side 15mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042

Medium parameters used: f = 837 MHz; σ = 0.958 S/m; ε_r = 53.371; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.509 W/kg

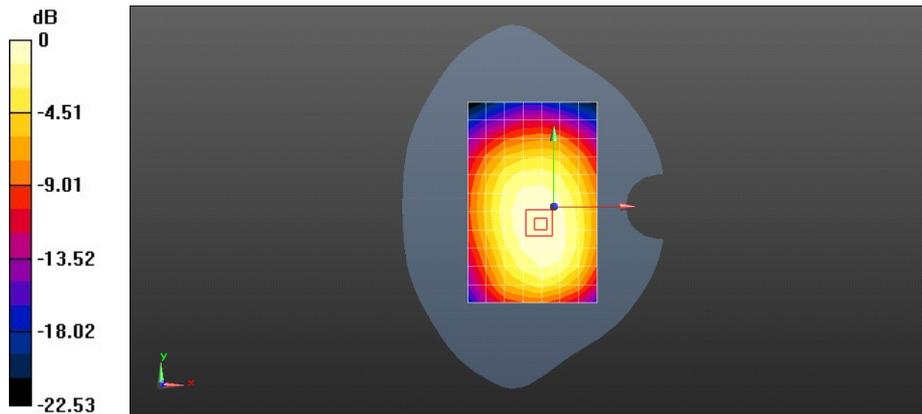**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.16 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.581 W/kg
SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.353 W/kg
Maximum value of SAR (measured) = 0.511 W/kg

0 dB = 0.509 W/kg = -2.93 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 GSM850 GPRS 2TS 190CH Back Side 10mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 836.6 MHz;Duty Cycle: 1:4.10015

Medium parameters used: f = 837 MHz; σ = 0.958 S/m; ε_r = 53.371; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(6.06, 6.06, 6.06); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
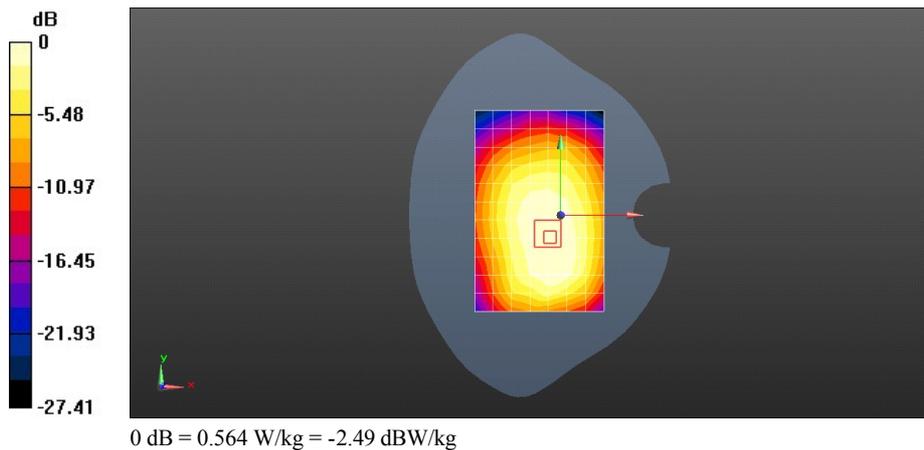
Maximum value of SAR (measured) = 0.564 W/kg

Configuration/Body/Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.05 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.691 W/kg

SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.389 W/kg

Maximum value of SAR (measured) = 0.560 W/kg

0 dB = 0.564 W/kg = -2.49 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 GSM1900 512CH Right hand touch cheek

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.368 S/m; ε_r = 39.665; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(5.15, 5.15, 5.15); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.234 W/kg

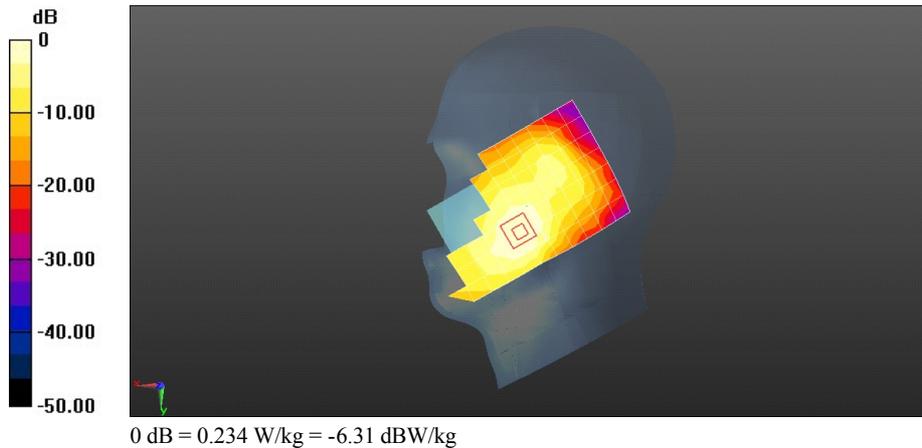**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.074 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.305 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.133 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.246 W/kg

0 dB = 0.234 W/kg = -6.31 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 GSM1900 661CH Back Side 15mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: f = 1880 MHz; σ = 1.5 S/m; $ε_r$ = 51.2; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.35, 7.35, 7.35); Calibrated: 2014-4-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
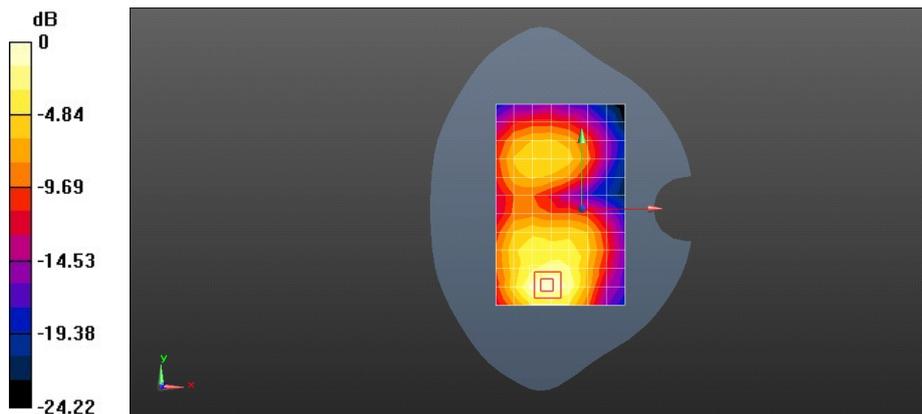Maximum value of SAR (measured) = 0.373 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.128 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.515 W/kg
SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.182 W/kg
Maximum value of SAR (measured) = 0.381 W/kg

0 dB = 0.373 W/kg = -4.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 GSM1900 GPRS 2TS 661CH Back Side 10mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz;Duty Cycle: 1:4.10015
Medium parameters used: f = 1880 MHz; σ = 1.5 S/m; $ε_r$ = 51.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.35, 7.35, 7.35); Calibrated: 2014-4-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
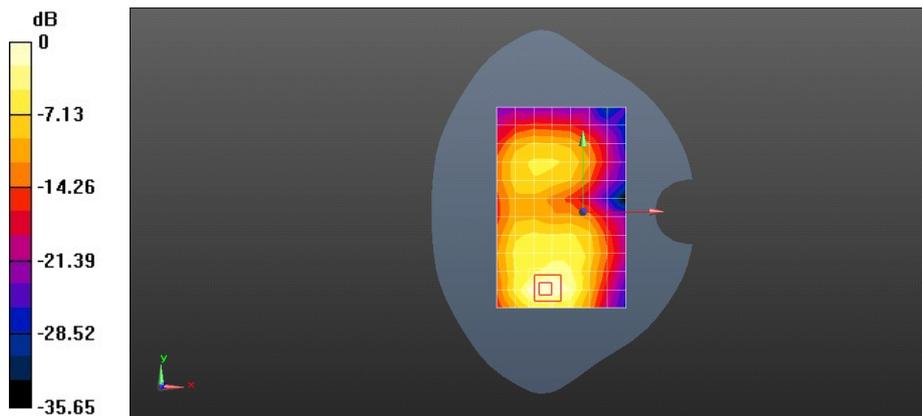Maximum value of SAR (measured) = 0.796 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.015 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.696 W/kg; SAR(10 g) = 0.369 W/kg
Maximum value of SAR (measured) = 0.865 W/kg

0 dB = 0.796 W/kg = -0.99 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 LTE Band VII 20M QPSK 1RB#50 21350CH Right hand touch cheek

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 1.947 S/m; ε_r = 39.557; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.39, 4.39, 4.39); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm
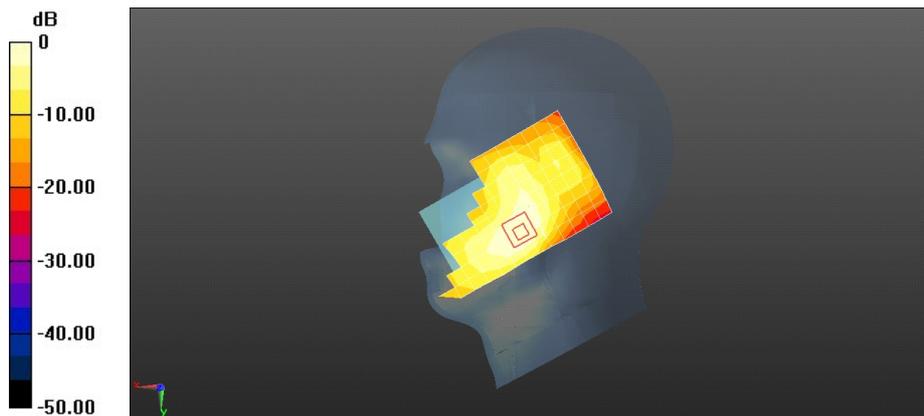Maximum value of SAR (measured) = 0.875 W/kg

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.716 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.392 W/kg
Maximum value of SAR (measured) = 0.889 W/kg

0 dB = 0.875 W/kg = -0.58 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 LTE Band VII 20M QPSK 1RB#0 20850CH Back Side 15mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 2.069 S/m; ε_r = 51.518; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.1, 4.1, 4.1); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm
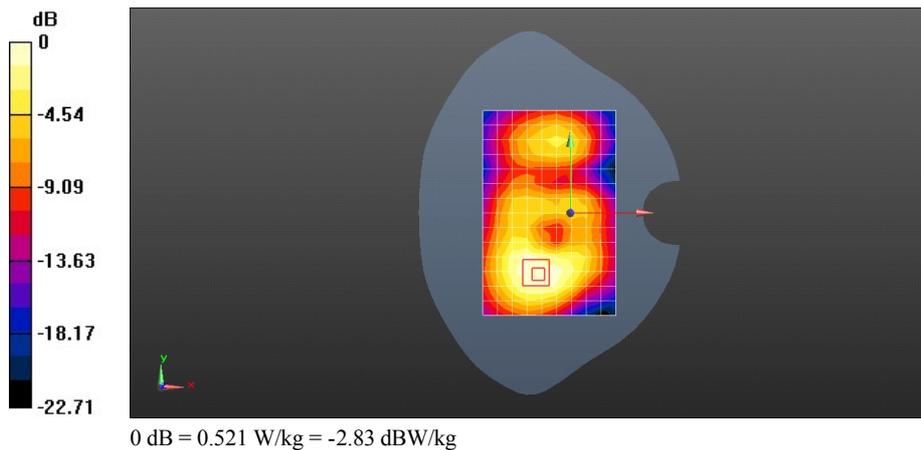Maximum value of SAR (measured) = 0.521 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.701 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.835 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.247 W/kg
Maximum value of SAR (measured) = 0.543 W/kg

0 dB = 0.521 W/kg = -2.83 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 LTE Band VII 20M QPSK 50%RB#25 21350CH Back Side 10mm
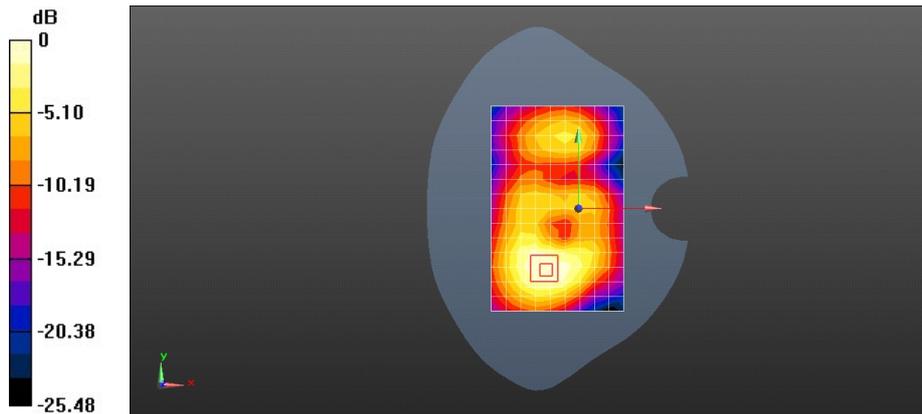
DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2560 MHz; σ = 2.125 S/m; $ε_r$ = 51.376; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.1, 4.1, 4.1); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (8x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.561 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.499 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.981 W/kg
SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.244 W/kg
Maximum value of SAR (measured) = 0.589 W/kg

0 dB = 0.561 W/kg = -2.51 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 WiFI 802.11b 6CH Left hand touch cheek

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 1.77 S/m; ε_r = 39.717; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3898; ConvF(7.55, 7.55, 7.55); Calibrated: 2014-3-10;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn852; Calibrated: 2014-4-30
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm
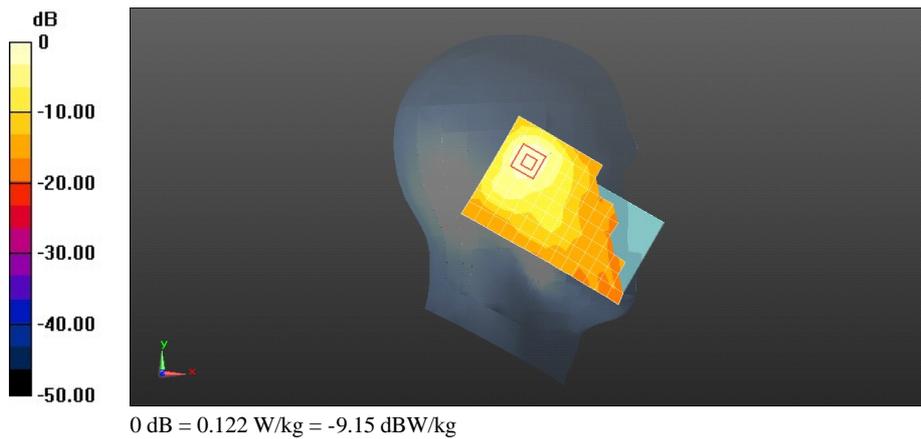Maximum value of SAR (measured) = 0.122 W/kg

Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.753 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.233 W/kg
SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.049 W/kg
Maximum value of SAR (measured) = 0.138 W/kg

0 dB = 0.122 W/kg = -9.15 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 WiFi 802.11b 6CH Back Side 15mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 2.024 S/m; ε_r = 51.63; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.25, 4.25, 4.25); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm
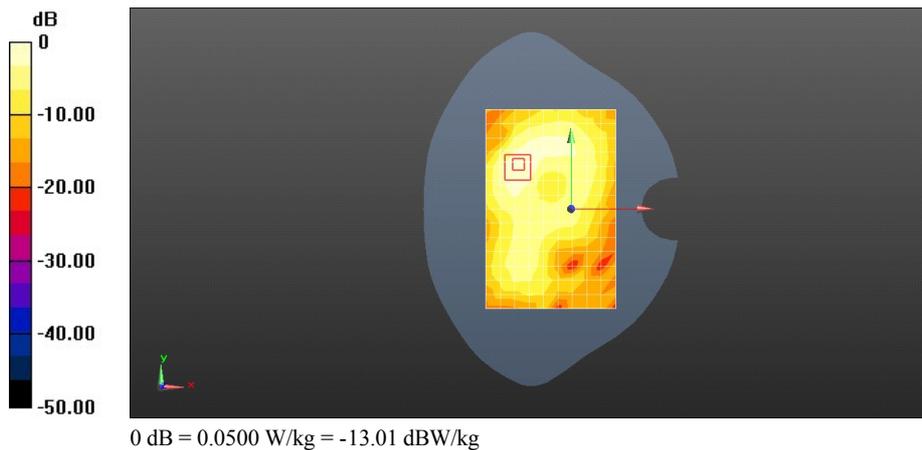Maximum value of SAR (measured) = 0.0482 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.762 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0790 W/kg
SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.019 W/kg
Maximum value of SAR (measured) = 0.0500 W/kg

0 dB = 0.0500 W/kg = -13.01 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

Y550-L01 WiFi 802.11b 6CH Back Side 10mm

DUT: HUAWEI Y550-L01; Type: Smart Phone; Serial: SAR1
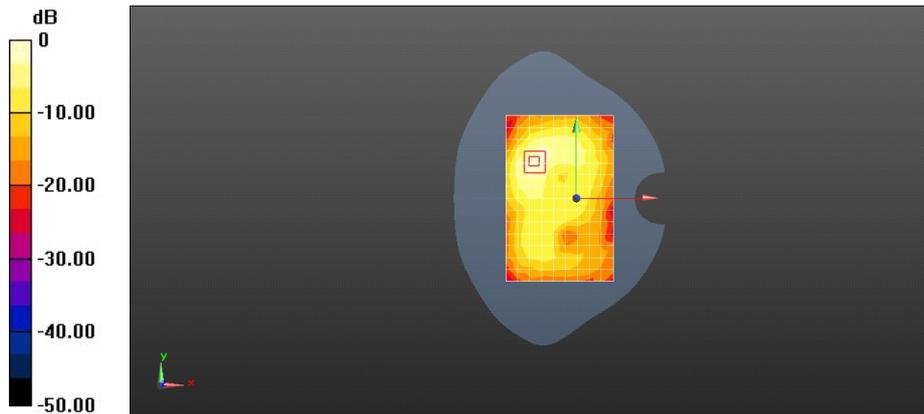
Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2437 MHz; σ = 2.024 S/m; ε_r = 51.63; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.25, 4.25, 4.25); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.131 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.505 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.250 W/kg
SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.047 W/kg
Maximum value of SAR (measured) = 0.138 W/kg

0 dB = 0.138 W/kg = -8.61 dBW/kg