**Appendix B. SAR Measurement Plots**

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Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 GSM850 251CH Left hand touch cheek with battery 2#

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

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 = 0.905 S/m; $ε_r$ = 40.819; ρ = 1000 kg/m$^3$
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.13, 9.13, 9.13); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
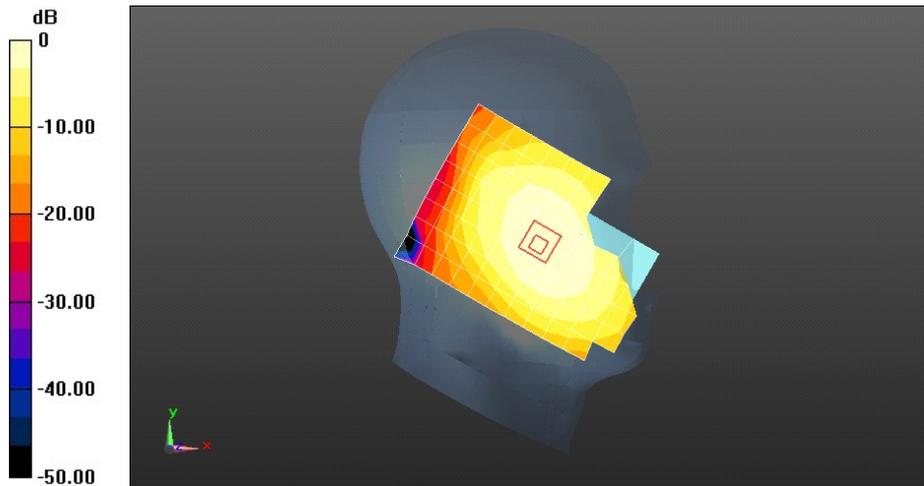Maximum value of SAR (measured) = 0.543 W/kg

**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.287 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.635 W/kg
**SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.375 W/kg**
Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.543 W/kg = -2.65 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 GSM850 190CH Back side 15mm with battery 2#

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

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 = 0.993 S/m; $\varepsilon_r$ = 54.81; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.07, 9.07, 9.07); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
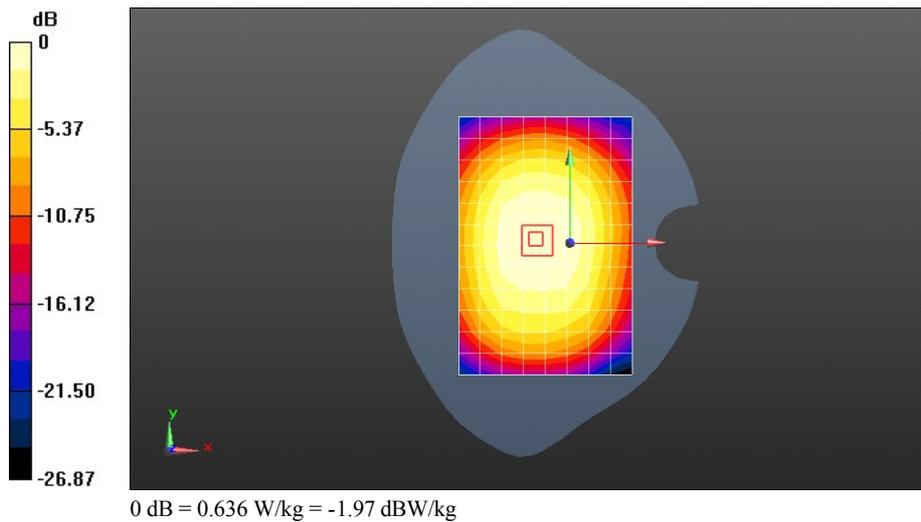Maximum value of SAR (measured) = 0.636 W/kg

**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.884 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.735 W/kg
**SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.462 W/kg**
Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.636 W/kg = -1.97 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 GSM850 GPRS 2TS 251CH Left Side-repeated 10mm with battery 2#**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 848.8 MHz;Duty Cycle: 1:4.10015
Medium parameters used: f = 849 MHz; σ = 1.002 S/m; $ε_r$ = 54.73; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.07, 9.07, 9.07); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
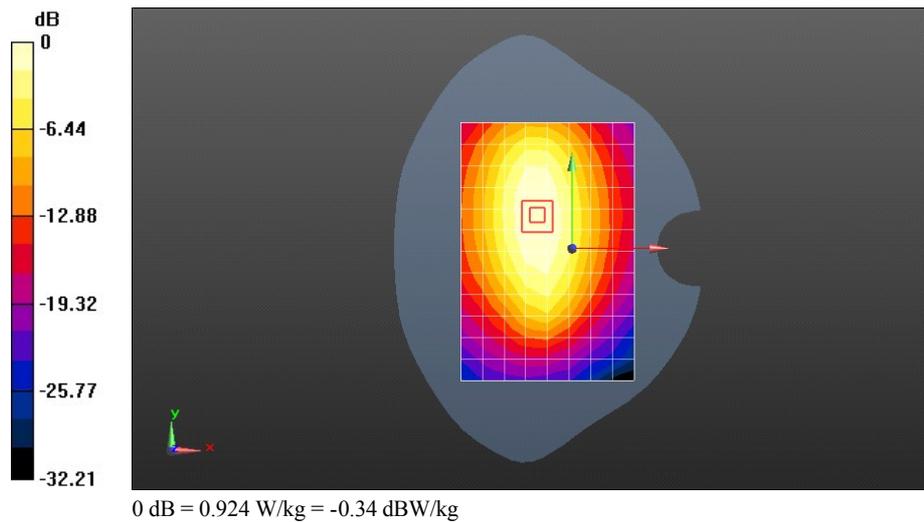Maximum value of SAR (measured) = 0.924 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.384 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.29 W/kg
**SAR(1 g) = 0.895 W/kg; SAR(10 g) = 0.610 W/kg**
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 0.924 W/kg = -0.34 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 GSM1900 810CH Left hand touch cheek

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1909.8 MHz;Duty Cycle: 1:8.30042
Medium parameters used: f = 1910 MHz; σ = 1.405 S/m; $ε_r$ = 41.23; ρ = 1000 kg/m$^3$
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.57, 7.57, 7.57); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
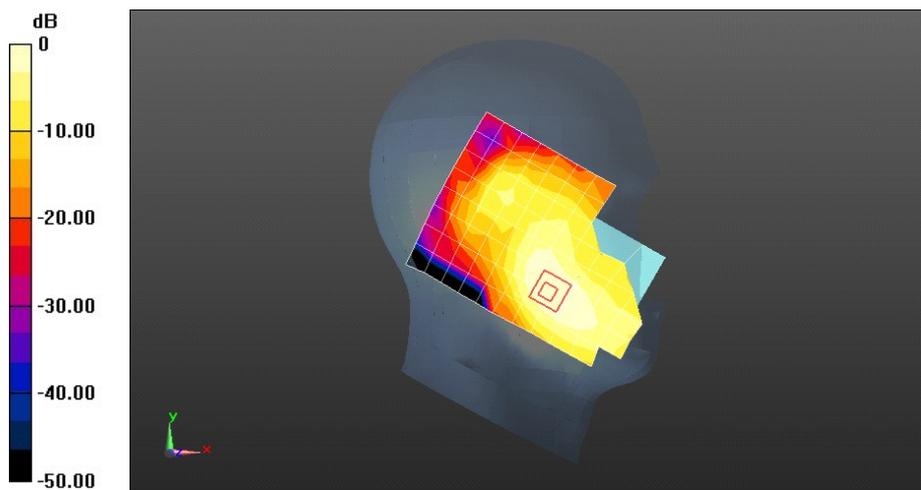Maximum value of SAR (measured) = 0.278 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.064 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.362 W/kg
**SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.151 W/kg**
Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.278 W/kg = -5.56 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 GSM1900 810CH Back side 15mm with battery 2#

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1909.8 MHz;Duty Cycle: 1:8.30042
Medium parameters used: f = 1910 MHz; σ = 1.566 S/m; $ε_r$ = 51.126; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.27, 7.27, 7.27); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
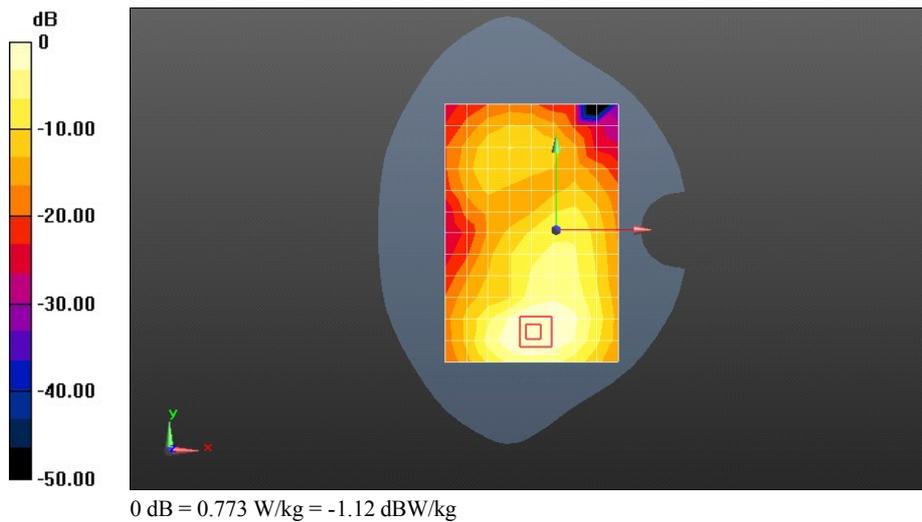Maximum value of SAR (measured) = 0.773 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.975 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.16 W/kg
**SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.442 W/kg**
Maximum value of SAR (measured) = 0.881 W/kg



0 dB = 0.773 W/kg = -1.12 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 GSM1900 GPRS 2TS 810CH Bottom side 10mm-repeated

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1909.8 MHz;Duty Cycle: 1:4.10015
Medium parameters used: f = 1910 MHz; σ = 1.566 S/m; $\varepsilon_r$ = 51.126; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.27, 7.27, 7.27); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
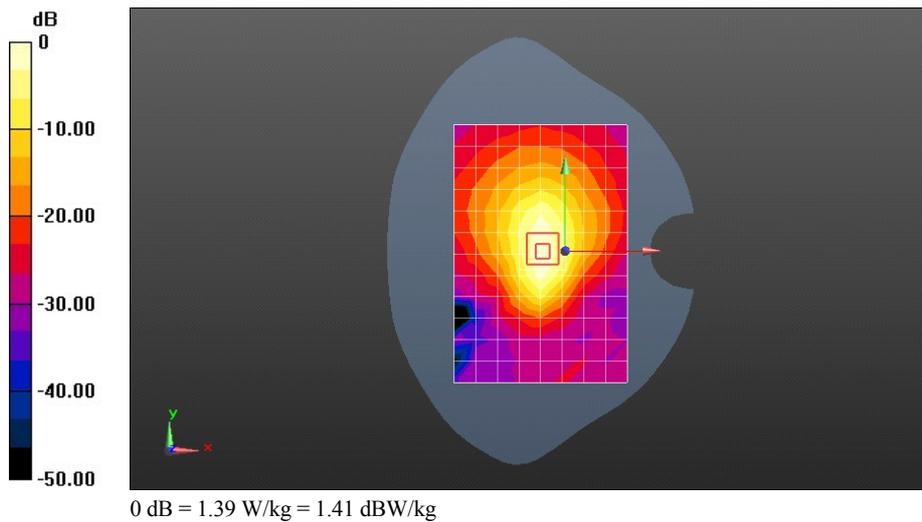Maximum value of SAR (measured) = 1.39 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.550 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.93 W/kg
**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.626 W/kg**
Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.39 W/kg = 1.41 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 UMTS Band V 4132CH Left hand touch cheek

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.885 S/m; $\varepsilon_r$ = 40.931; ρ = 1000 kg/m$^3$
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.13, 9.13, 9.13); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.382 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
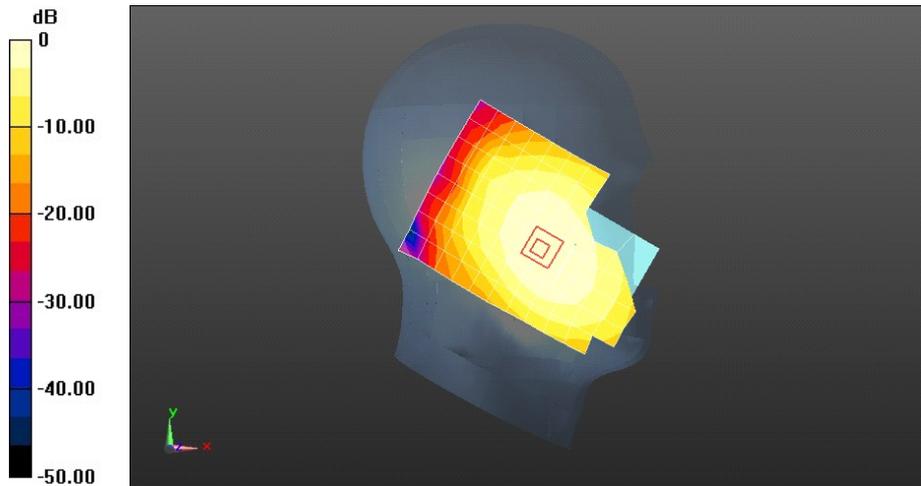Reference Value = 8.048 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.461 W/kg
**SAR(1 g) = 0.360 W/kg; SAR(10 g) = 0.270 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.392 W/kg



0 dB = 0.382 W/kg = -4.18 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 UMTS Band V 4182CH Back Side 15mm with battery 2#**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.988 S/m; $\varepsilon_r$ = 54.898; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.07, 9.07, 9.07); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.547 W/kg

**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
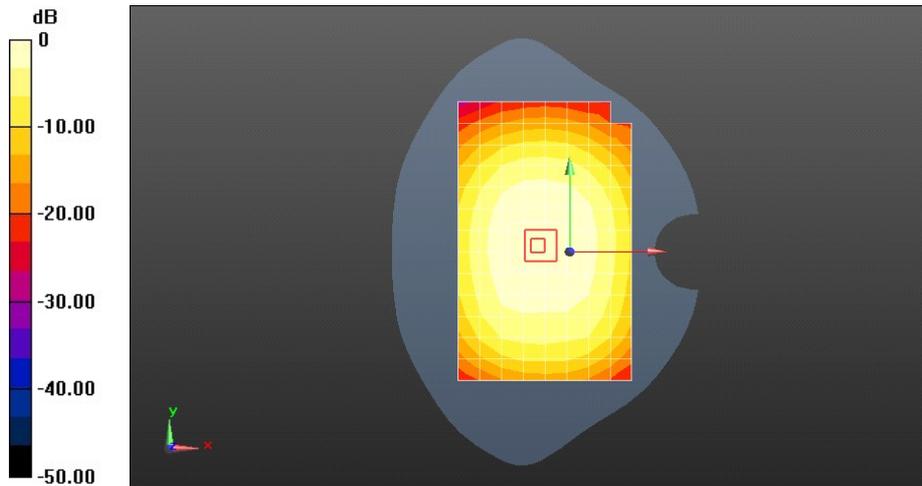Reference Value = 23.070 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.633 W/kg
**SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.396 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.547 W/kg = -2.62 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 UMTS Band V 4182CH Right Side 10mm with battery 2#

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.988 S/m; $ε_r$ = 54.898; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(9.07, 9.07, 9.07); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.775 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
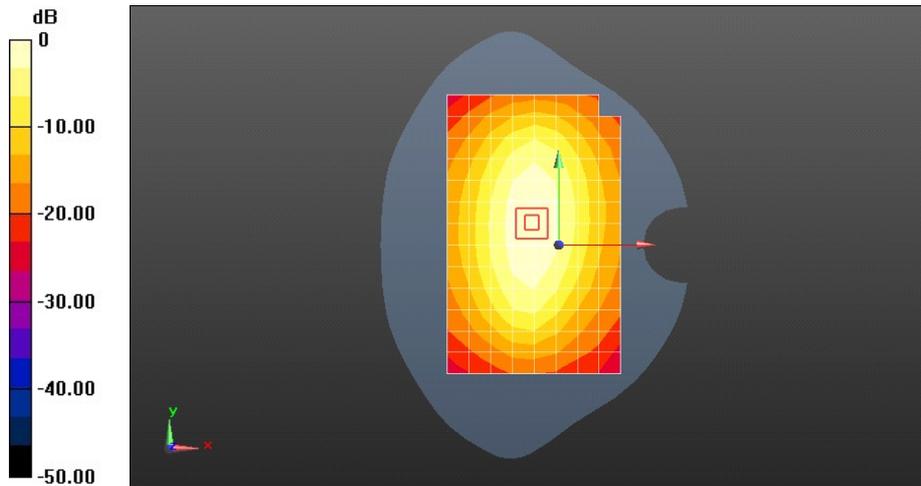Reference Value = 25.753 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.984 W/kg
**SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.467 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.790 W/kg



0 dB = 0.775 W/kg = -1.11 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 UMTS Band IV 1513CH Right hand touch cheek with battery 2#

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1753 MHz; σ = 1.32 S/m; $\varepsilon_r$ = 39.411; ρ = 1000 kg/m$^3$
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.84, 7.84, 7.84); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
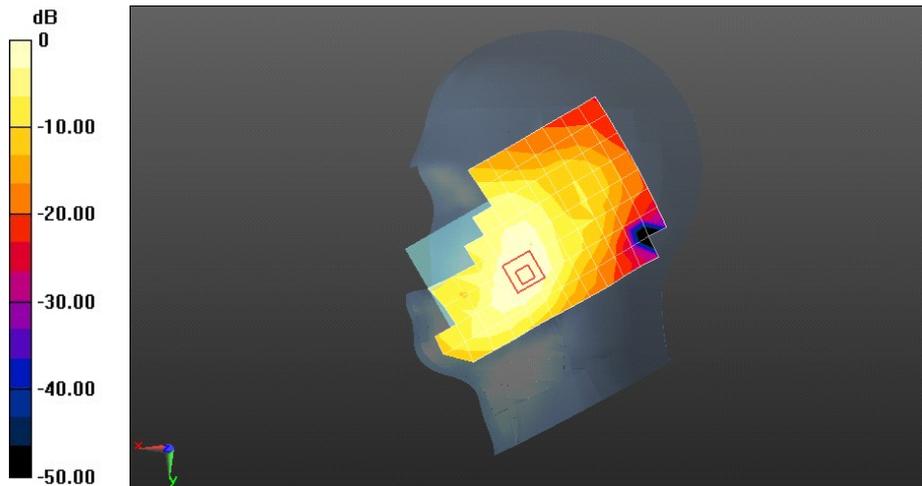Maximum value of SAR (measured) = 0.428 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.917 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.605 W/kg
**SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.256 W/kg**
Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.428 W/kg = -3.69 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 UMTS Band IV 1413CH Back Side 15mm with battery 2#**
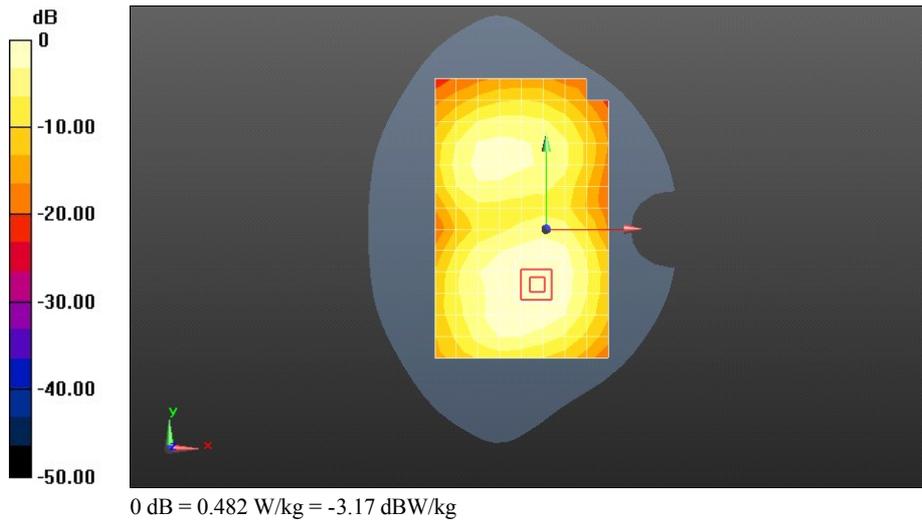
**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1733 MHz; σ = 1.488 S/m; $ε_r$ = 52.514; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.48, 7.48, 7.48); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.482 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.915 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.632 W/kg
**SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.289 W/kg**
Maximum value of SAR (measured) = 0.498 W/kg



0 dB = 0.482 W/kg = -3.17 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 UMTS Band IV 1413CH Front Side 10mm**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1733 MHz; σ = 1.488 S/m; $\varepsilon_r$ = 52.514; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.48, 7.48, 7.48); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
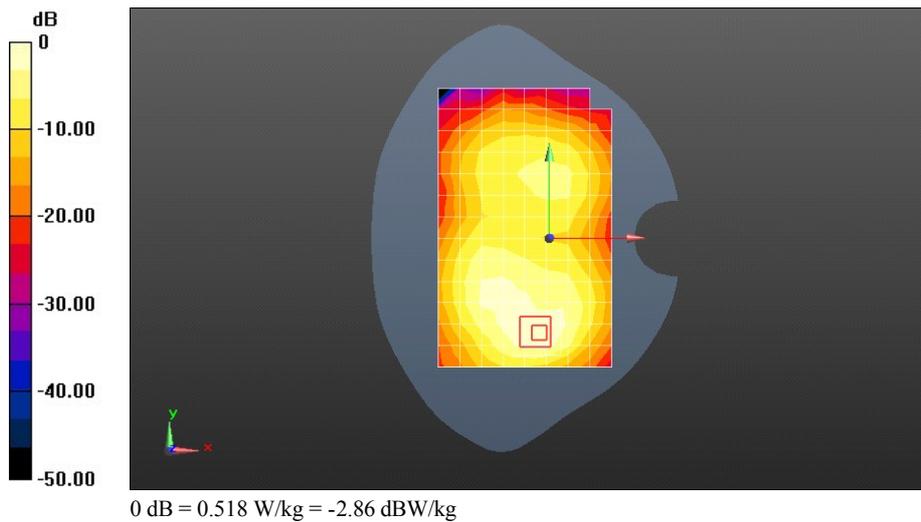Maximum value of SAR (measured) = 0.518 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.165 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.980 W/kg
**SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.279 W/kg**
Maximum value of SAR (measured) = 0.693 W/kg



0 dB = 0.518 W/kg = -2.86 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 UMTS Band II 9400CH Left hand touch cheek

### DUT: P7-L12; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.385 S/m; $ε_r$ = 41.246; ρ = 1000 kg/m$^3$
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.57, 7.57, 7.57); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
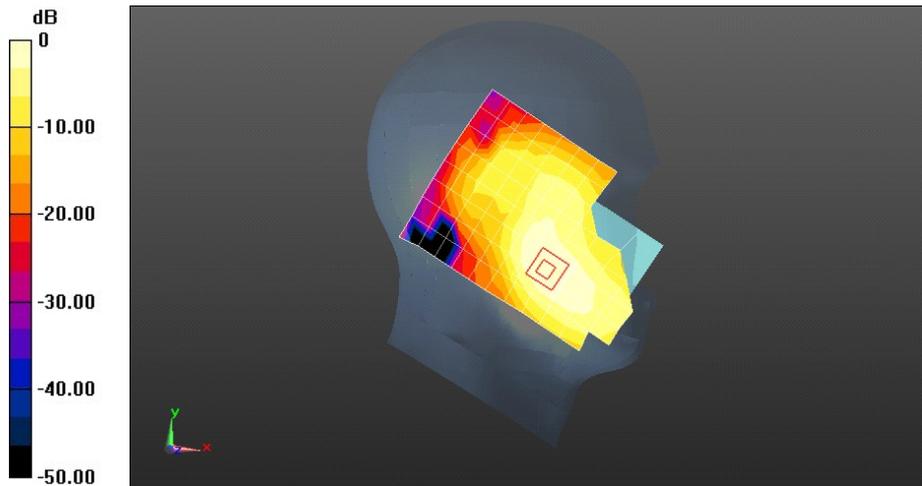Maximum value of SAR (measured) = 0.320 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.702 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.467 W/kg
**SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.190 W/kg**
Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 UMTS Band II 9538CH Back Side 15mm**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1908 MHz; σ = 1.545 S/m; $ε_r$ = 51.123; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.27, 7.27, 7.27); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
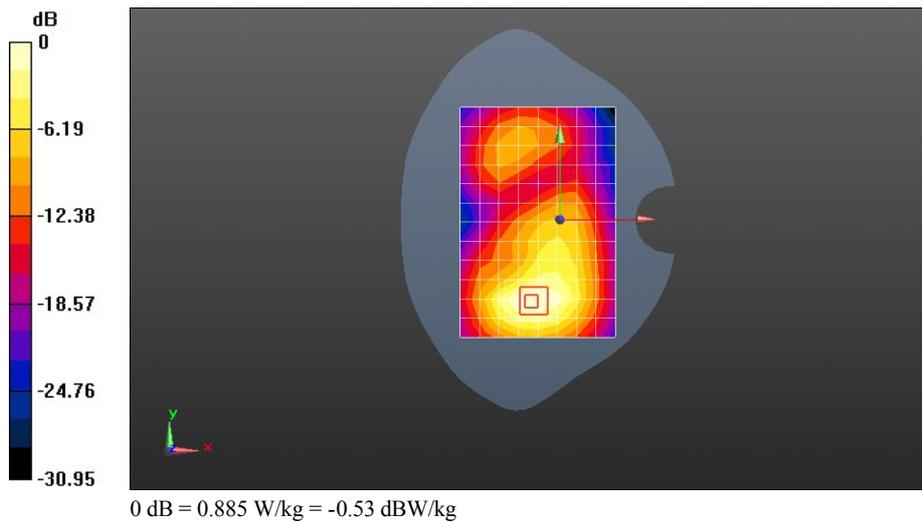Maximum value of SAR (measured) = 0.885 W/kg

**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.278 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.20 W/kg
**SAR(1 g) = 0.753 W/kg; SAR(10 g) = 0.447 W/kg**
Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.885 W/kg = -0.53 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 UMTS Band II 9538CH Bottom Side 10mm

### DUT: P7-L12; Type: Smart Phone; Serial: SAR2

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1908 MHz; σ = 1.545 S/m; $ε_r$ = 51.123; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.27, 7.27, 7.27); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
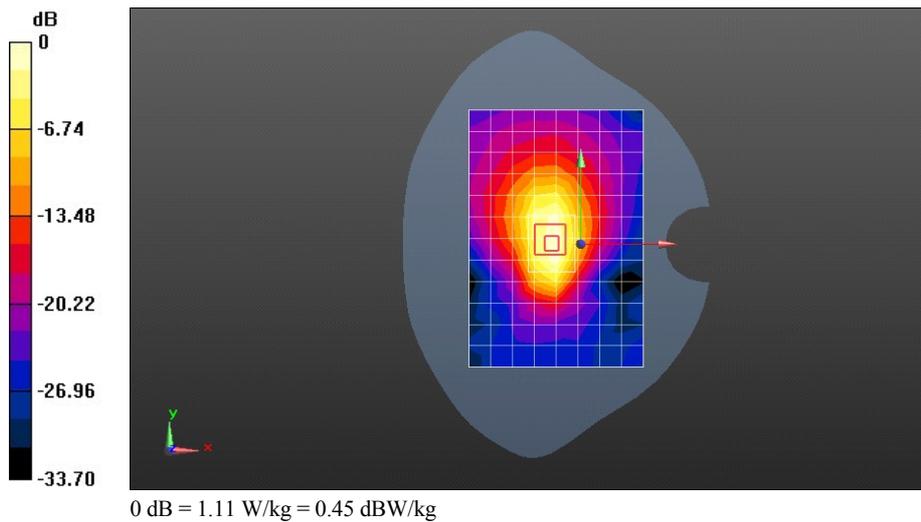Maximum value of SAR (measured) = 1.11 W/kg

**Configuration/Body/Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.877 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.70 W/kg
**SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.527 W/kg**
Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 UMTS Band II 9538CH Bottom Side 10mm-repeated**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1908 MHz; σ = 1.545 S/m; $ε_r$ = 51.123; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.27, 7.27, 7.27); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm
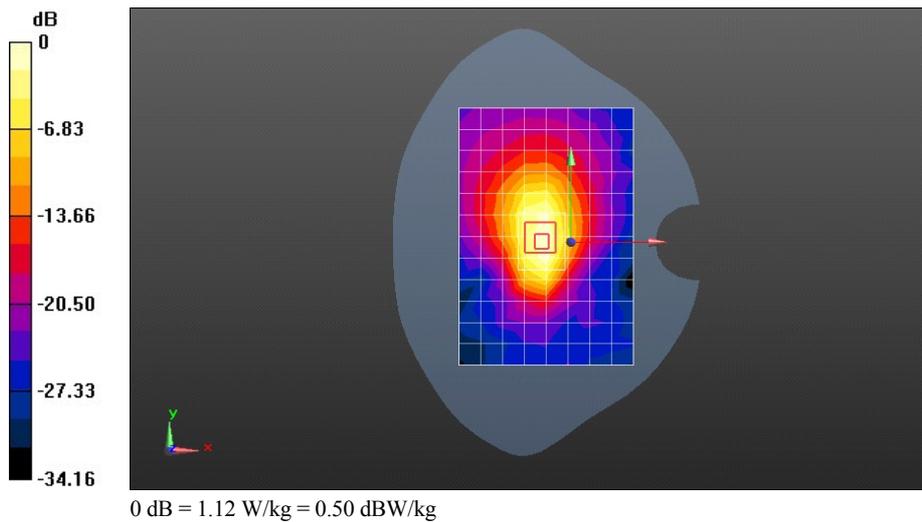Maximum value of SAR (measured) = 1.12 W/kg

**Configuration/Body/Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.146 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.70 W/kg
**SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.527 W/kg**
Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.12 W/kg = 0.50 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 LTE Band IV 20M QPSK 1RB#0 20300CH Right hand touch cheek with battery 2#**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1745 MHz; σ = 1.307 S/m; $\varepsilon_r$ = 39.339; ρ = 1000 kg/m$^3$
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.84, 7.84, 7.84); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
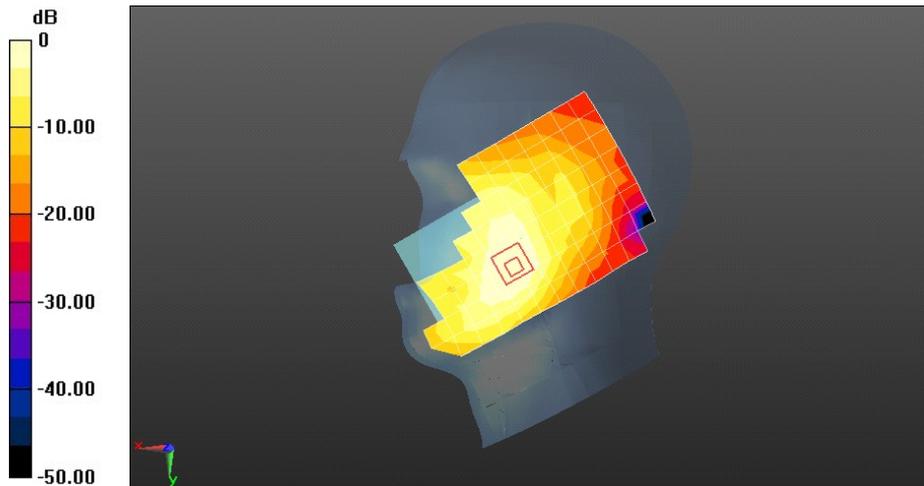Maximum value of SAR (measured) = 0.412 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.634 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.564 W/kg
**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.246 W/kg**
Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.412 W/kg = -3.86 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 LTE Band IV 20M QPSK 1RB#0 20300CH Back side 15mm**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1745 MHz; σ = 1.504 S/m; $ε_r$ = 52.334; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.48, 7.48, 7.48); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
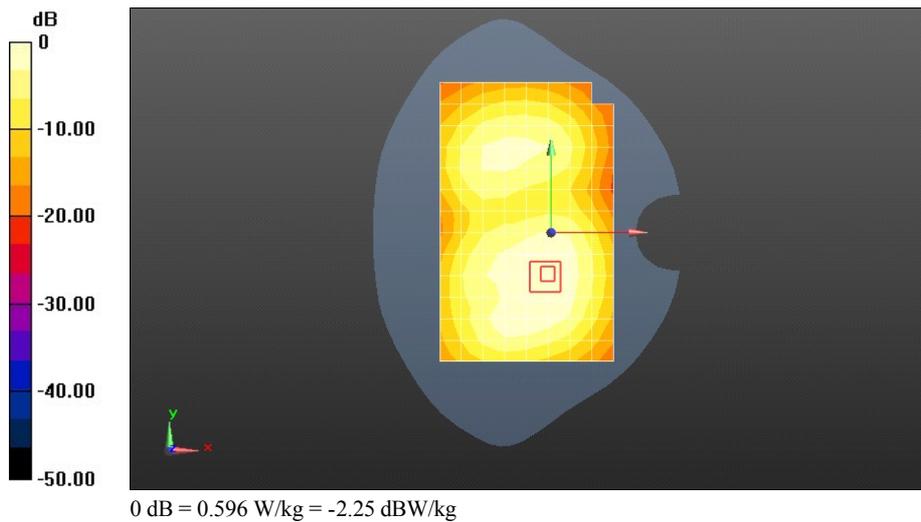Maximum value of SAR (measured) = 0.596 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.112 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.752 W/kg
**SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.339 W/kg**
Maximum value of SAR (measured) = 0.585 W/kg



0 dB = 0.596 W/kg = -2.25 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 LTE Band IV 20M QPSK 1RB#0 20300CH Front side 10mm**

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used: f = 1745 MHz; σ = 1.504 S/m; $ε_r$ = 52.334; ρ = 1000 kg/m$^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.48, 7.48, 7.48); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm
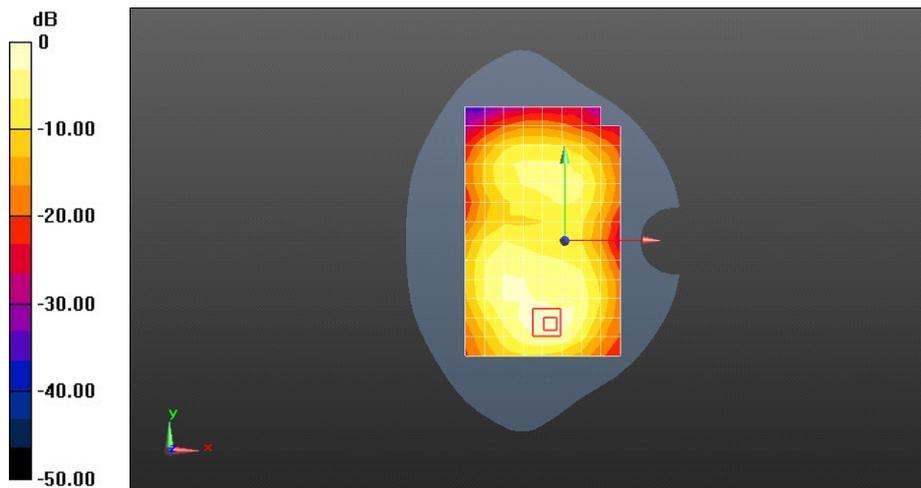Maximum value of SAR (measured) = 1.09 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.528 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.77 W/kg
**SAR(1 g) = 0.980 W/kg; SAR(10 g) = 0.509 W/kg**
Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.09 W/kg = 0.39 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**P7-L12 LTE Band VII 20M QPSK 1RB#50 21100CH Left hand touch cheek**
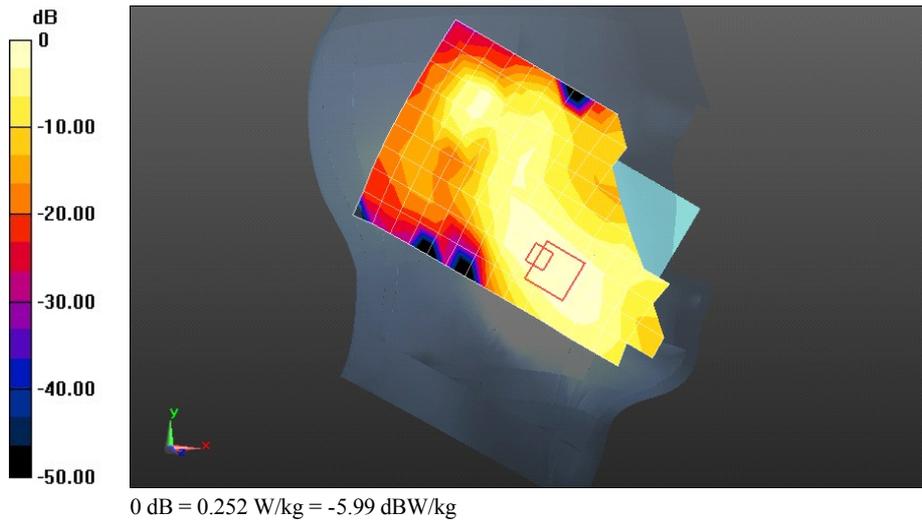
**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 1.93 S/m; $\varepsilon_r$ = 37.852; ρ = 1000 kg/m$^3$
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.74, 6.74, 6.74); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.252 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.103 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.375 W/kg
**SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.109 W/kg**
Maximum value of SAR (measured) = 0.254 W/kg



0 dB = 0.252 W/kg = -5.99 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 LTE Band VII 20M QPSK 1RB#50 21100CH Back side 15mm
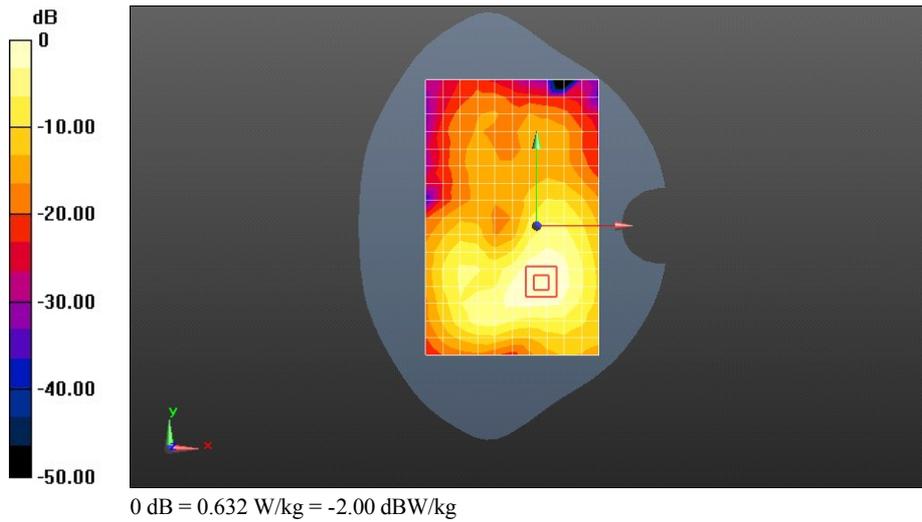
**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.075 S/m; $ε_r$ = 51.204; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.75, 6.75, 6.75); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.632 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.732 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.03 W/kg
**SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.305 W/kg**
Maximum value of SAR (measured) = 0.698 W/kg



0 dB = 0.632 W/kg = -2.00 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 LTE Band VII 20M QPSK 1RB#50 21100CH Back side 10mm

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2535 MHz; σ = 2.075 S/m; $ε_r$ = 51.204; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.75, 6.75, 6.75); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm
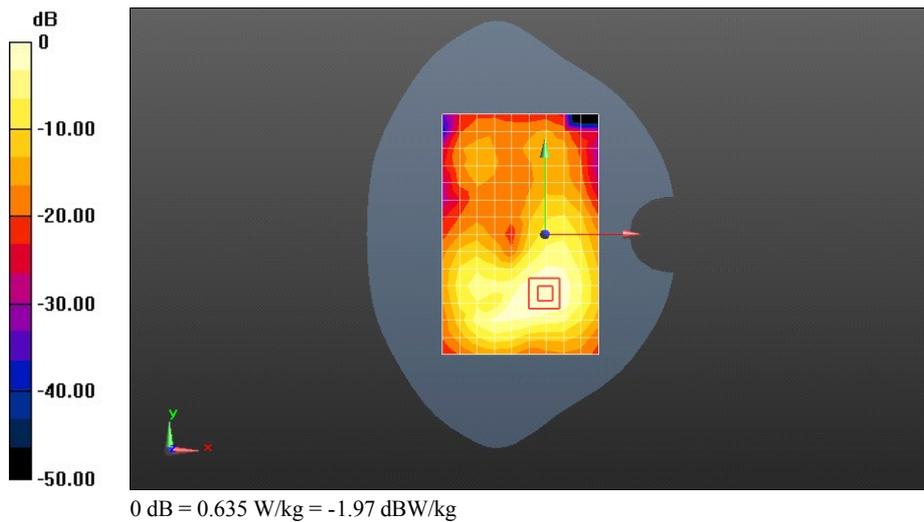Maximum value of SAR (measured) = 0.635 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.430 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.07 W/kg
**SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.295 W/kg**
Maximum value of SAR (measured) = 0.712 W/kg



0 dB = 0.635 W/kg = -1.97 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 WiFi 802.11b 11CH Left hand touch cheek

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2462 MHz; σ = 1.794 S/m; $ε_r$ = 39.172; ρ = 1000 kg/m$^3$
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.96, 6.96, 6.96); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm
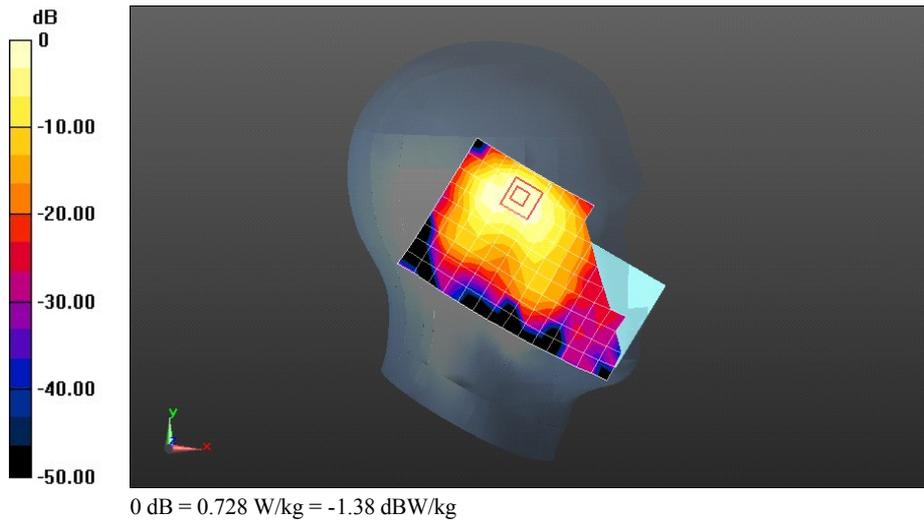Maximum value of SAR (measured) = 0.728 W/kg

**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.632 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.83 W/kg
**SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.343 W/kg**
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 0.728 W/kg = -1.38 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 WiFi 802.11b 11CH Back side 15mm

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2462 MHz; σ = 1.976 S/m; $ε_r$ = 50.696; ρ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.91, 6.91, 6.91); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm
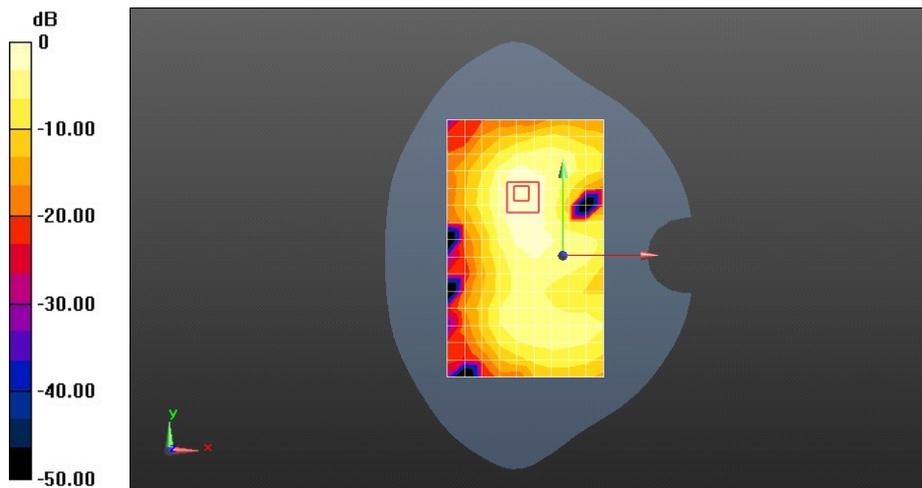Maximum value of SAR (measured) = 0.142 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.479 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.223 W/kg
**SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.064 W/kg**
Maximum value of SAR (measured) = 0.149 W/kg



0 dB = 0.142 W/kg = -8.49 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## P7-L12 WiFi 802.11b 11CH Back side 10mm

**DUT: P7-L12; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2462 MHz; σ = 1.976 S/m; $\varepsilon_r$ = 50.696; ρ = 1000 kg/m³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(6.91, 6.91, 6.91); Calibrated: 2013-7-26;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn851; Calibrated: 2013-7-31
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.300 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.126 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.502 W/kg
**SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.129 W/kg**
Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.300 W/kg = -5.23 dBW/kg