



## Appendix B. SAR Measurement Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 190CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.953$  S/m;  $\epsilon_r = 54.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.664 W/kg

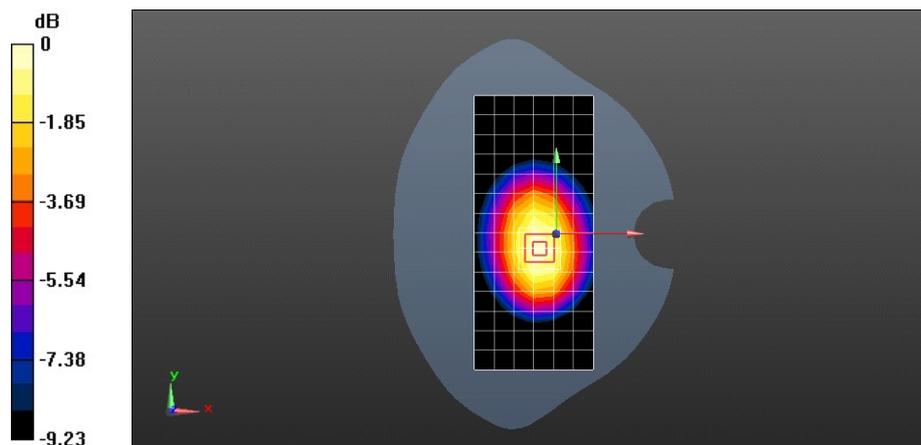
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 25.438 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.806 W/kg

**SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.427 W/kg**

Maximum value of SAR (measured) = 0.679 W/kg



0 dB = 0.679 W/kg = -1.68 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.752 W/kg

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

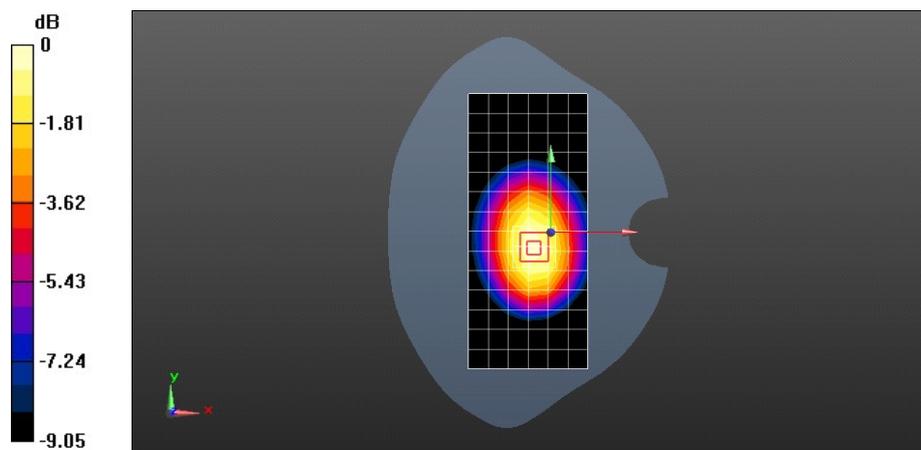
Reference Value = 27.464 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.908 W/kg

**SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.487 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.768 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 251CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.949$  S/m;  $\epsilon_r = 54.295$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.497 W/kg

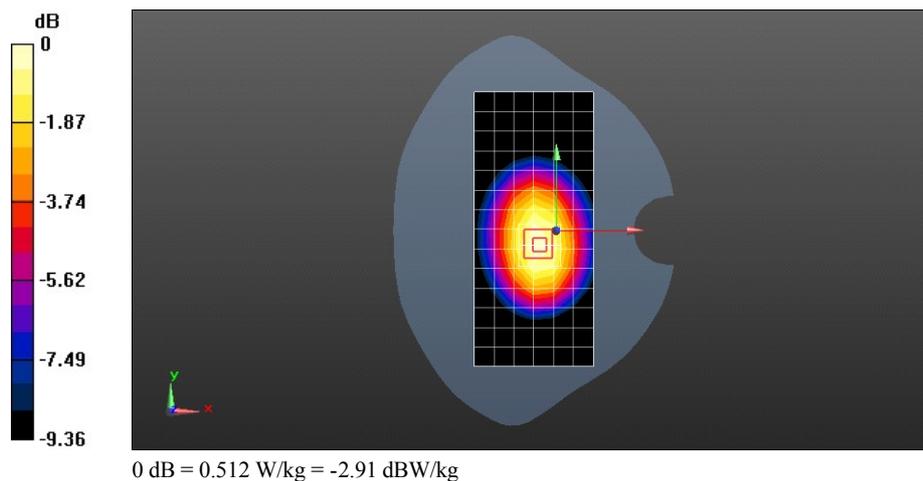
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 22.040 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.606 W/kg

**SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.321 W/kg**

Maximum value of SAR (measured) = 0.512 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**F615-51 GSM850 190CH Top side 25mm-antenna vertical**

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.953$  S/m;  $\epsilon_r = 54.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.875 W/kg

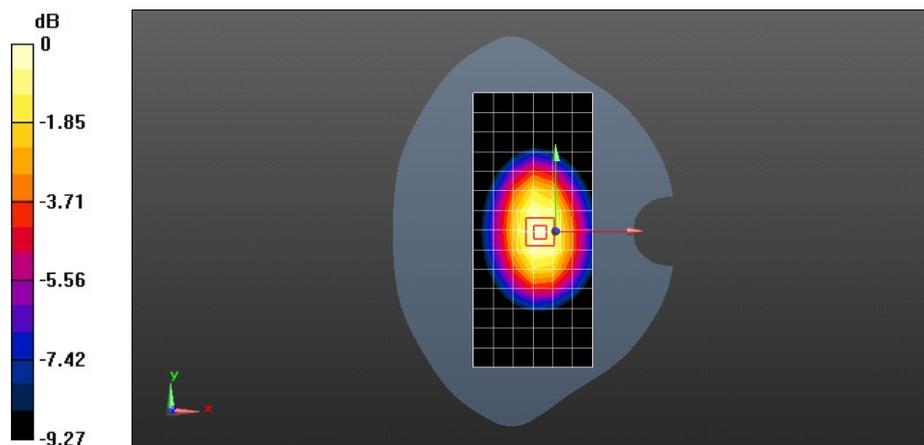
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 29.962 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.800 W/kg; SAR(10 g) = 0.565 W/kg**

Maximum value of SAR (measured) = 0.905 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Top side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 W/kg

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

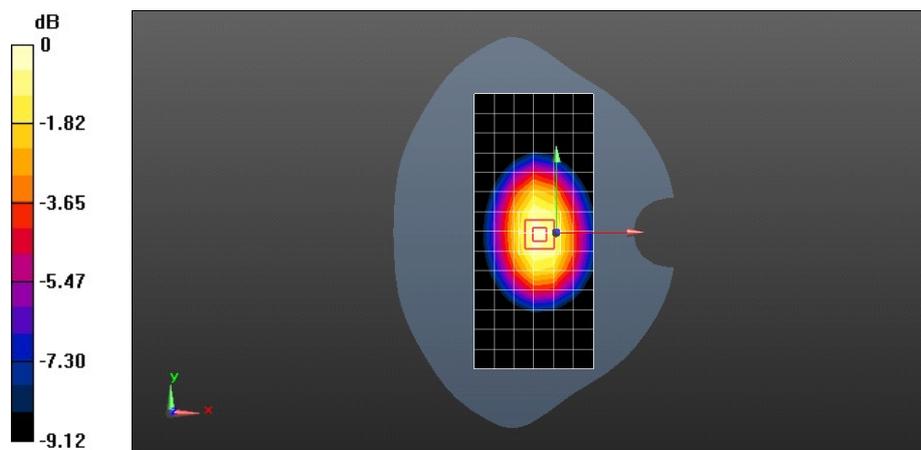
Reference Value = 32.715 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.936 W/kg; SAR(10 g) = 0.662 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Top side 25mm-antenna vertical-repeated

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.993 W/kg

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

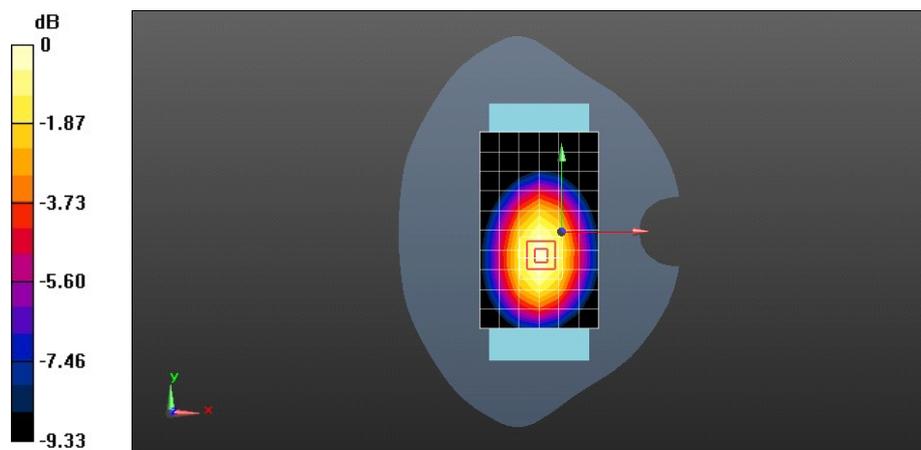
Reference Value = 30.292 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.896 W/kg; SAR(10 g) = 0.634 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.01 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 251CH Top side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.949$  S/m;  $\epsilon_r = 54.295$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.614 W/kg

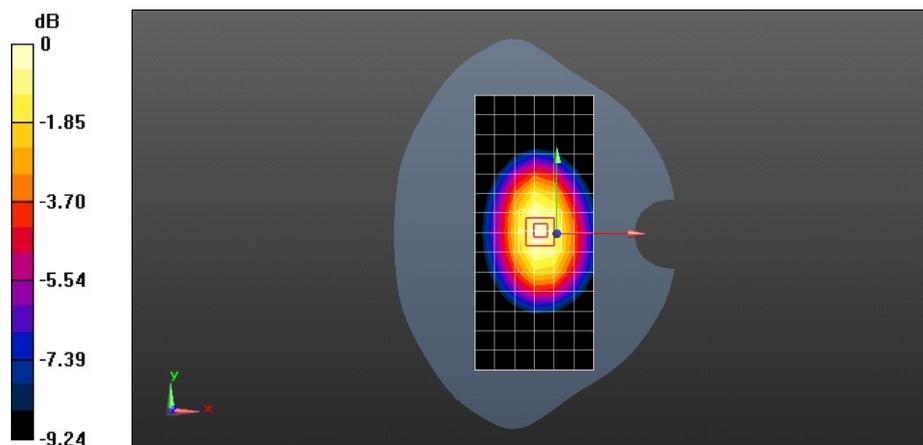
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 24.986 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.758 W/kg

**SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.395 W/kg**

Maximum value of SAR (measured) = 0.635 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 190CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.953$  S/m;  $\epsilon_r = 54.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.773 W/kg

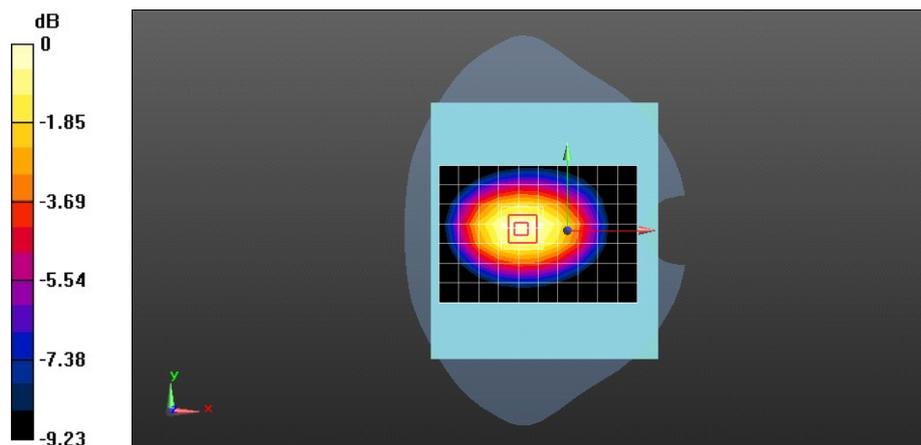
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 26.592 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.934 W/kg

**SAR(1 g) = 0.691 W/kg; SAR(10 g) = 0.489 W/kg**

Maximum value of SAR (measured) = 0.780 W/kg



0 dB = 0.780 W/kg = -1.08 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.893 W/kg

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

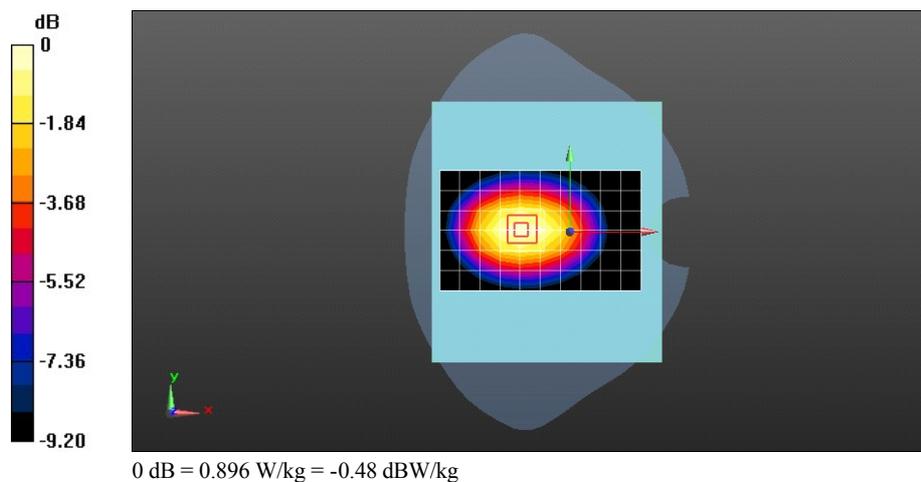
Reference Value = 28.223 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.559 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.896 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 251CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.949$  S/m;  $\epsilon_r = 54.295$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.535 W/kg

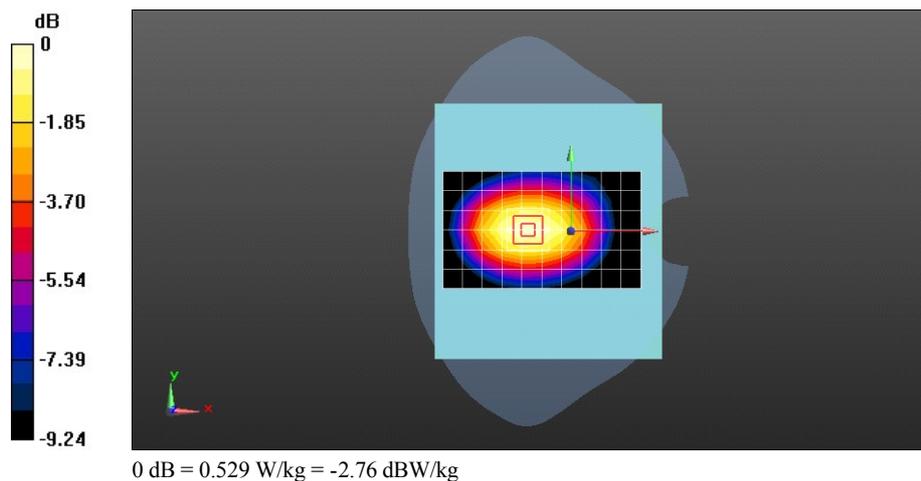
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 22.166 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.631 W/kg

**SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.333 W/kg**

Maximum value of SAR (measured) = 0.529 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 190CH Back side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.953$  S/m;  $\epsilon_r = 54.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0204 W/kg

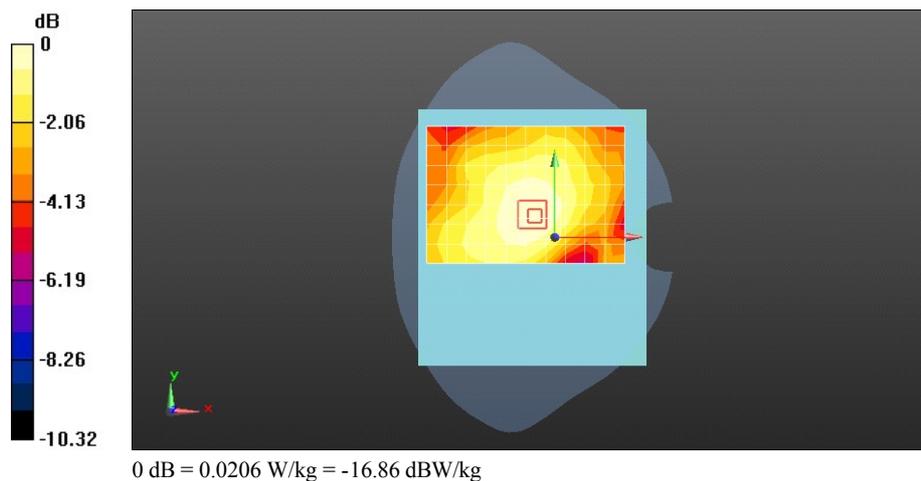
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.409 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.0240 W/kg

**SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.014 W/kg**

Maximum value of SAR (measured) = 0.0206 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Top side 25mm-antenna vertical and adapter

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.947 W/kg

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

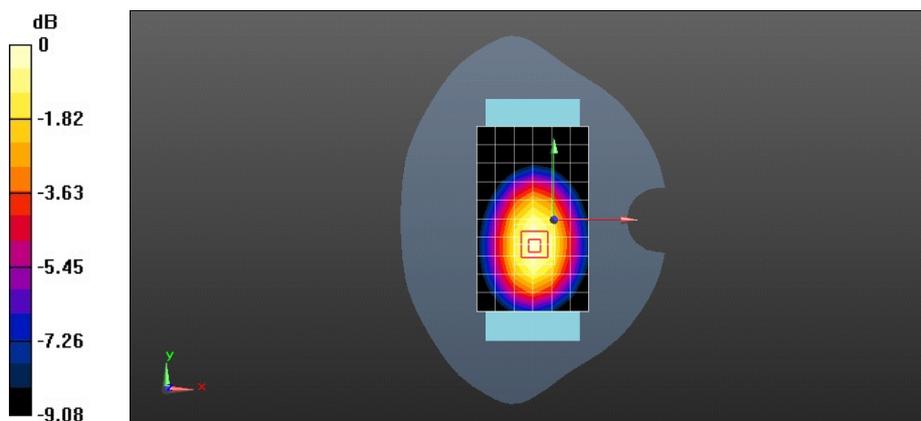
Reference Value = 29.307 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.602 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.955 W/kg



0 dB = 0.955 W/kg = -0.20 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Top side 25mm-antenna vertical with battery 2#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.954 W/kg

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

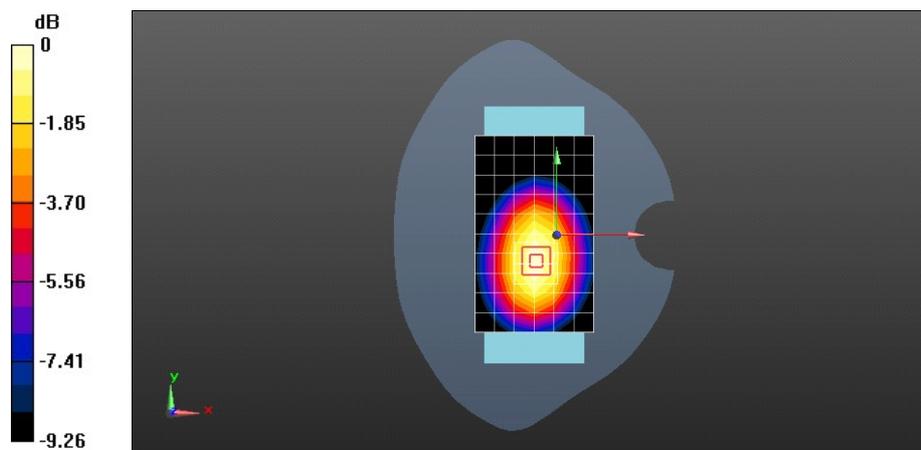
Reference Value = 29.475 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.853 W/kg; SAR(10 g) = 0.606 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.965 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 128CH Top side 25mm-antenna vertical with battery 3#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-1TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.921 W/kg

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

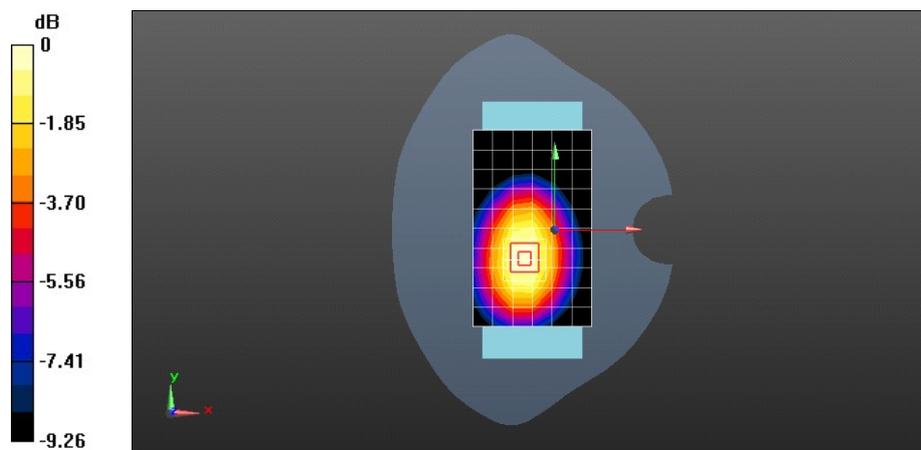
Reference Value = 28.696 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.874 W/kg; SAR(10 g) = 0.623 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.985 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 190CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.953$  S/m;  $\epsilon_r = 54.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.991 W/kg

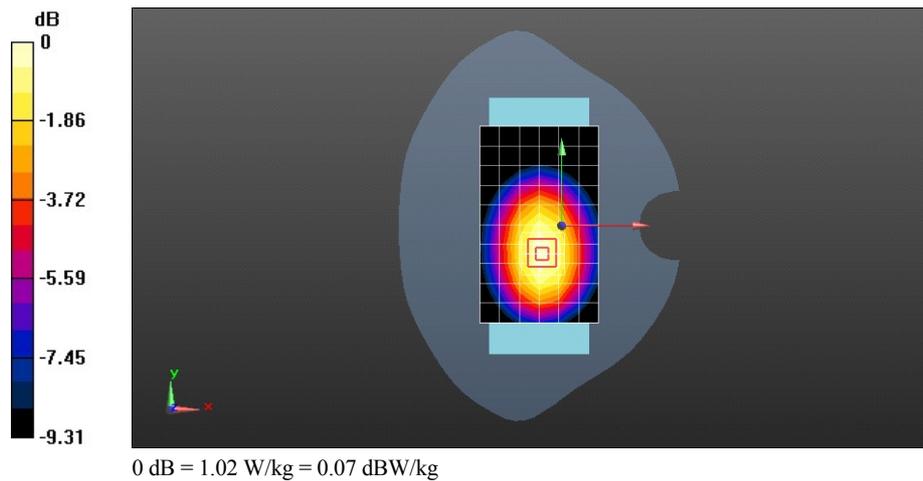
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 29.427 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.639 W/kg**

Maximum value of SAR (measured) = 1.02 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 128CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 54.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.20 W/kg

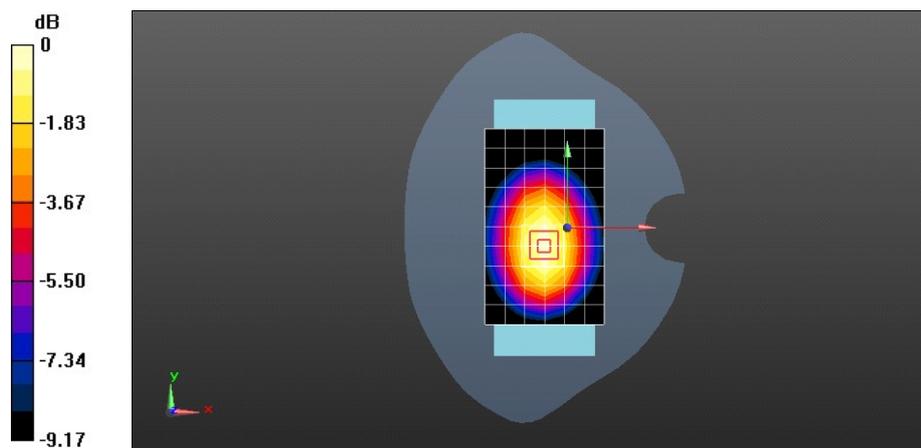
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 34.596 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.759 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)



0 dB = 1.20 W/kg = 0.81 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 251CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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;  $\sigma = 0.949$  S/m;  $\epsilon_r = 54.295$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.819 W/kg

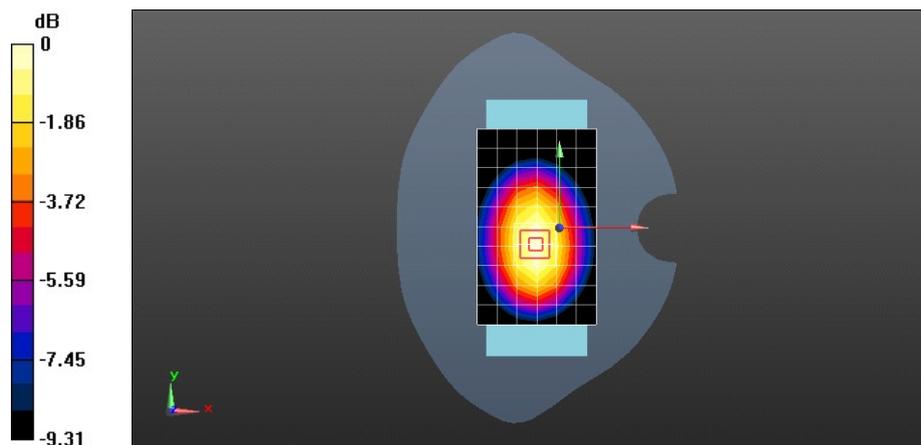
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 27.924 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.973 W/kg

**SAR(1 g) = 0.727 W/kg; SAR(10 g) = 0.515 W/kg**

Maximum value of SAR (measured) = 0.817 W/kg



0 dB = 0.817 W/kg = -0.88 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 190CH Top side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.977$  S/m;  $\epsilon_r = 54.145$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.959 W/kg

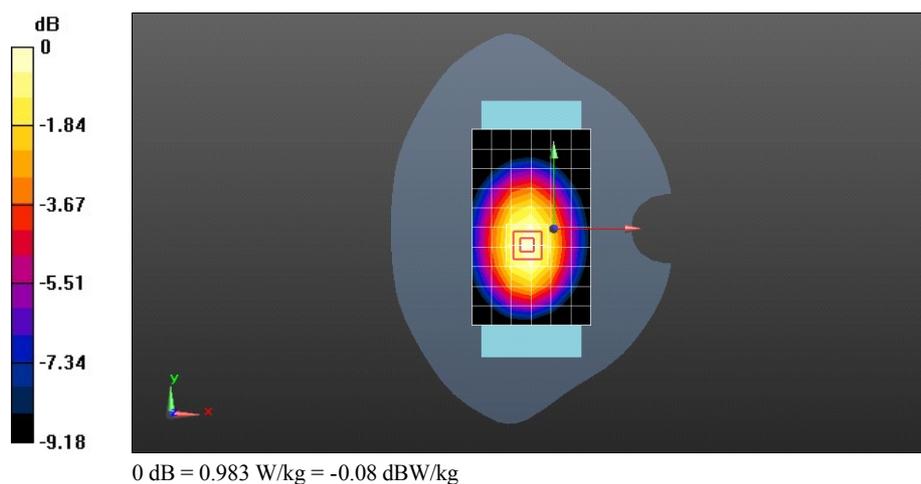
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 29.699 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.870 W/kg; SAR(10 g) = 0.619 W/kg**

Maximum value of SAR (measured) = 0.983 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 128CH Top side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.34 W/kg

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

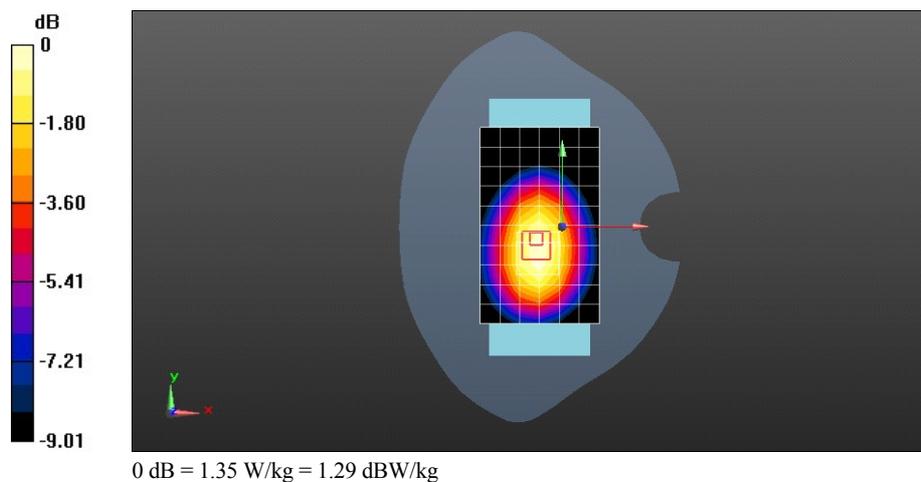
Reference Value = 34.577 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.810 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.35 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 251CH Top side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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;  $\sigma = 0.983$  S/m;  $\epsilon_r = 54.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.822 W/kg

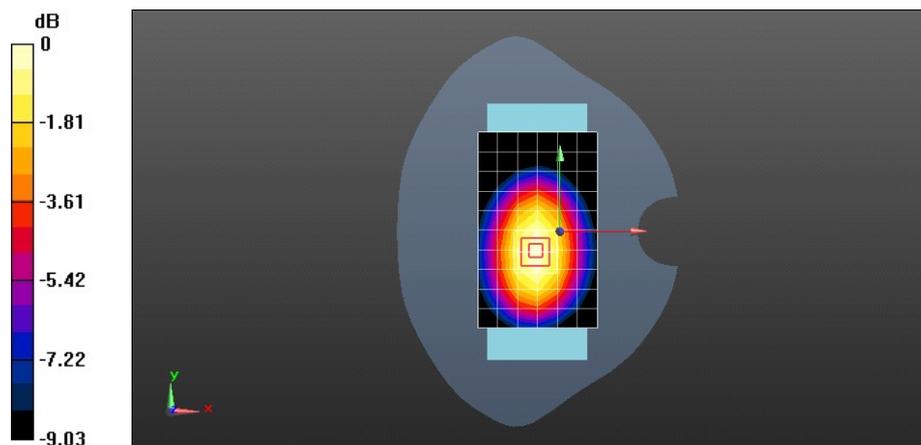
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 27.138 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.973 W/kg

**SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.517 W/kg**

Maximum value of SAR (measured) = 0.820 W/kg



0 dB = 0.820 W/kg = -0.86 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 190CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.977$  S/m;  $\epsilon_r = 54.145$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.05 W/kg

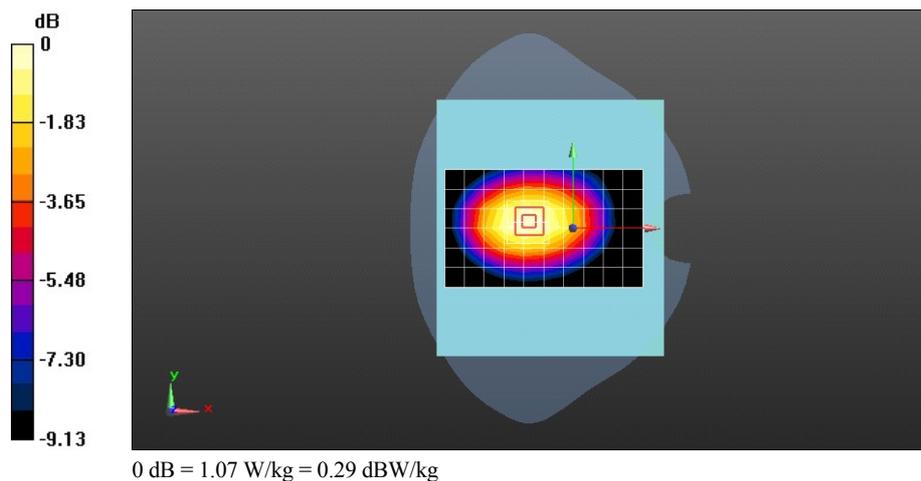
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 30.205 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.676 W/kg**

Maximum value of SAR (measured) = 1.07 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 128CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.19 W/kg

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

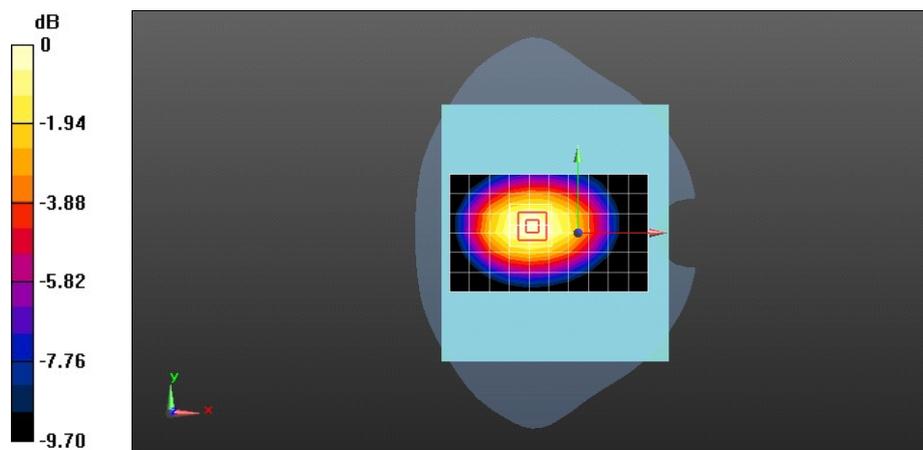
Reference Value = 32.437 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.785 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.24 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 251CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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;  $\sigma = 0.983$  S/m;  $\epsilon_r = 54.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (11x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.727 W/kg

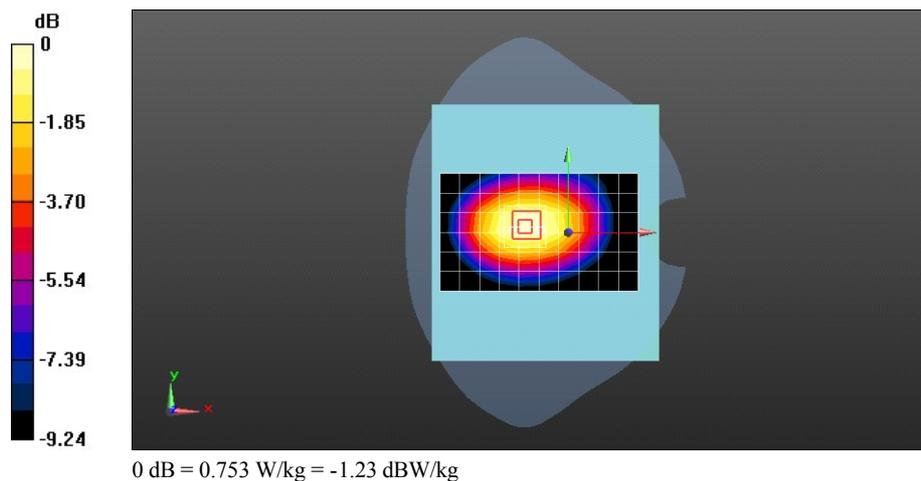
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 25.614 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.898 W/kg

**SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.474 W/kg**

Maximum value of SAR (measured) = 0.753 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 190CH Back side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 0.977$  S/m;  $\epsilon_r = 54.145$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0347 W/kg

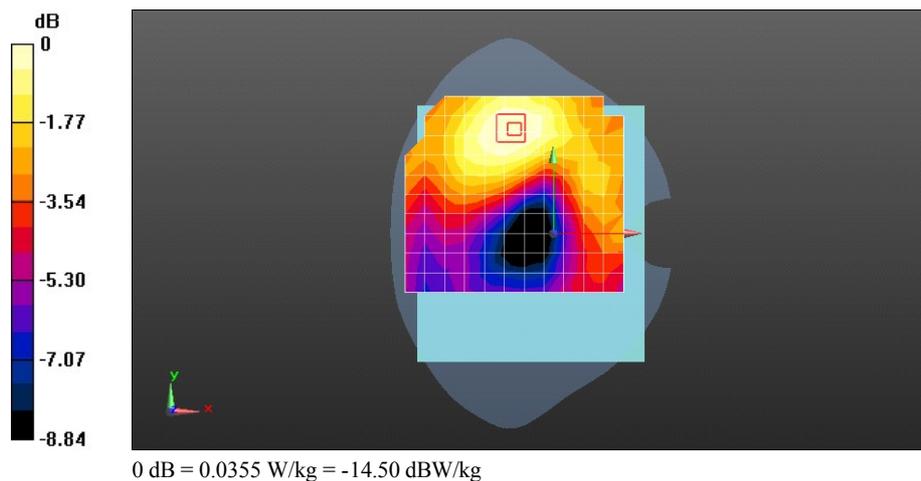
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 1.466 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0410 W/kg

**SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.024 W/kg**

Maximum value of SAR (measured) = 0.0355 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## F615-51 GSM850 GPRS 2TS 128CH Top side 25mm-antenna vertical and adapter

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.24 W/kg

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

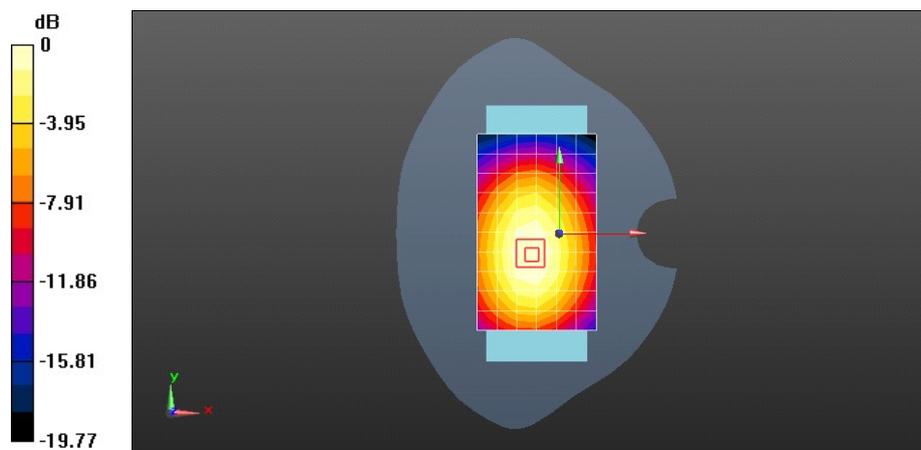
Reference Value = 33.840 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.809 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.28 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 128CH Top side 25mm-antenna vertical with battery 2#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.37 W/kg

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

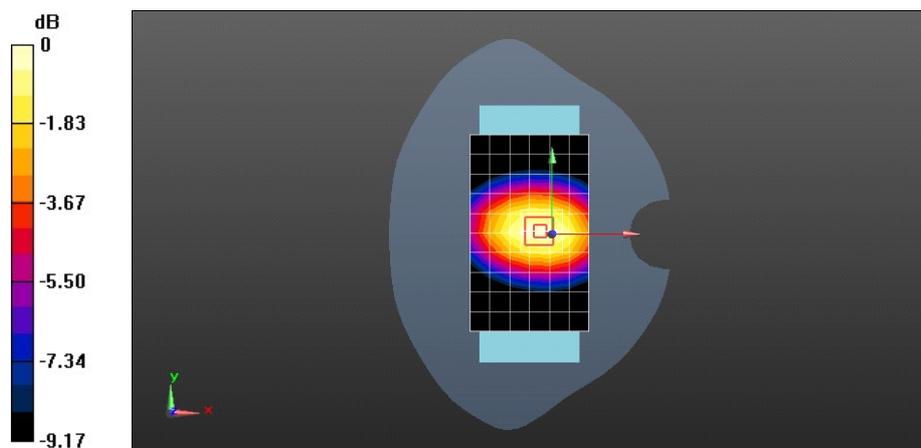
Reference Value = 36.994 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.878 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg = 1.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 128CH Top side 25mm-antenna vertical-repeated

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.37 W/kg

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

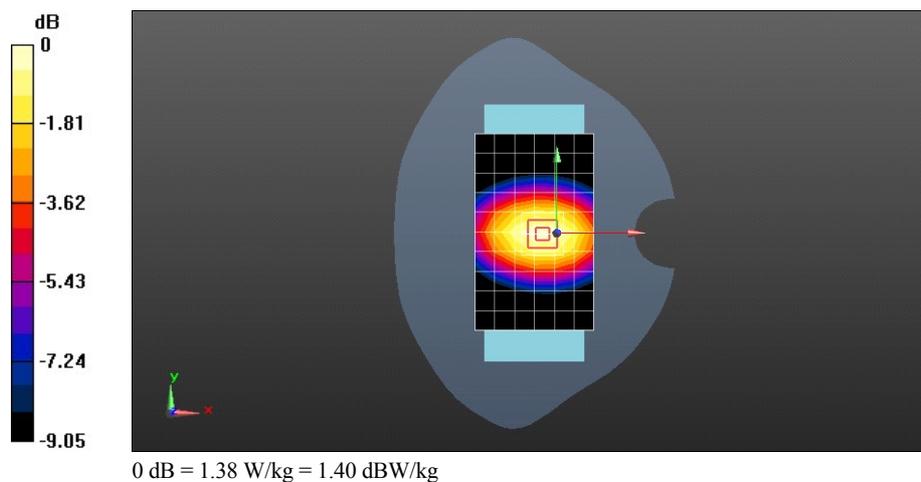
Reference Value = 36.886 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.63 W/kg

**SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.875 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.38 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM850 GPRS 2TS 128CH Top side 25mm-antenna vertical with battery 3#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-GSM/GPRS/EGPRS-2TS (0); Frequency: 824.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.785$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.27 W/kg

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

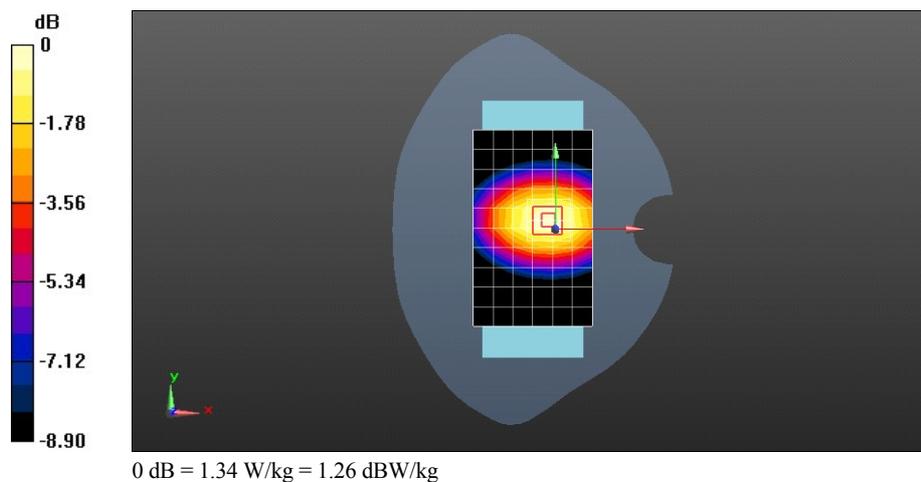
Reference Value = 34.555 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.846 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.34 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**F615-51 GSM1900 661CH Top side 25mm-antenna horizontal****DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0830 W/kg

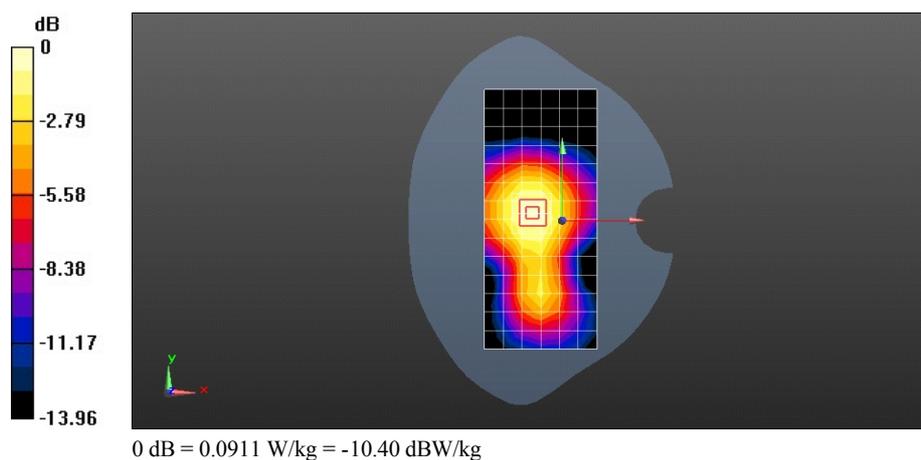
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.194 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.118 W/kg

**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.049 W/kg**

Maximum value of SAR (measured) = 0.0911 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 661CH Top side 25mm-antenna Vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

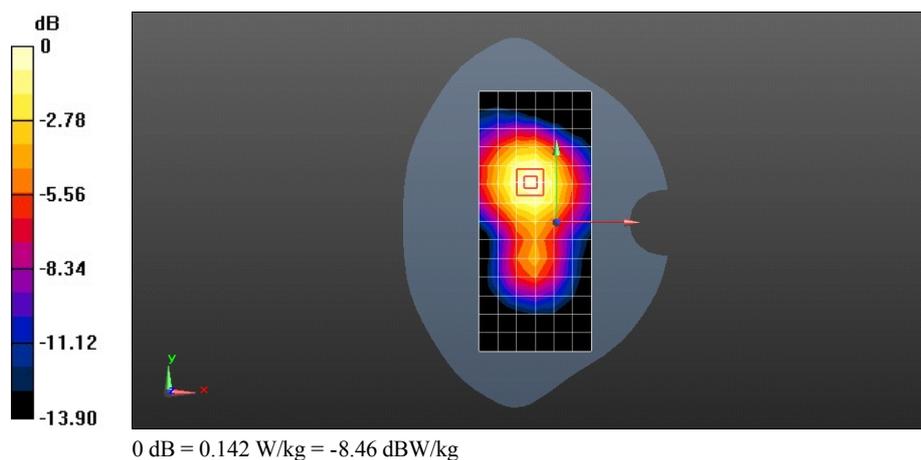
Maximum value of SAR (measured) = 0.142 W/kg

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

Reference Value = 6.147 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.183 W/kg

**SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.077 W/kg**



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 661CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.286 W/kg

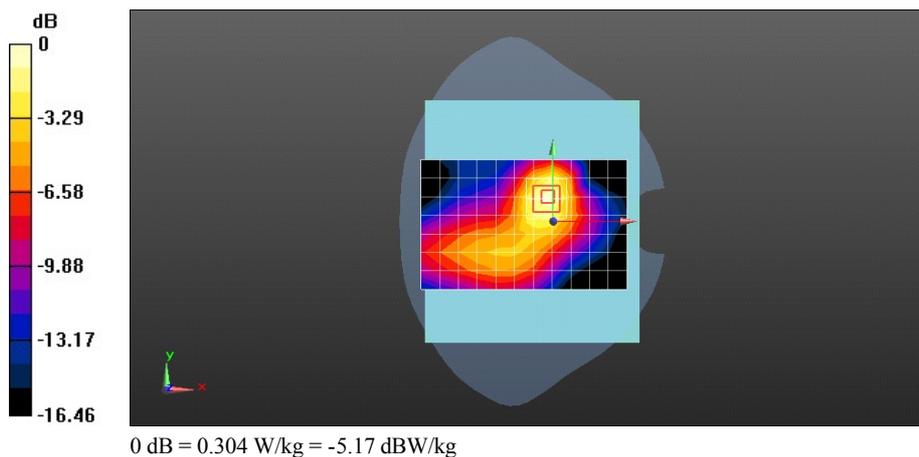
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.813 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.402 W/kg

**SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.151 W/kg**

Maximum value of SAR (measured) = 0.304 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 661CH Back side 25mm-antenna Vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.175 W/kg

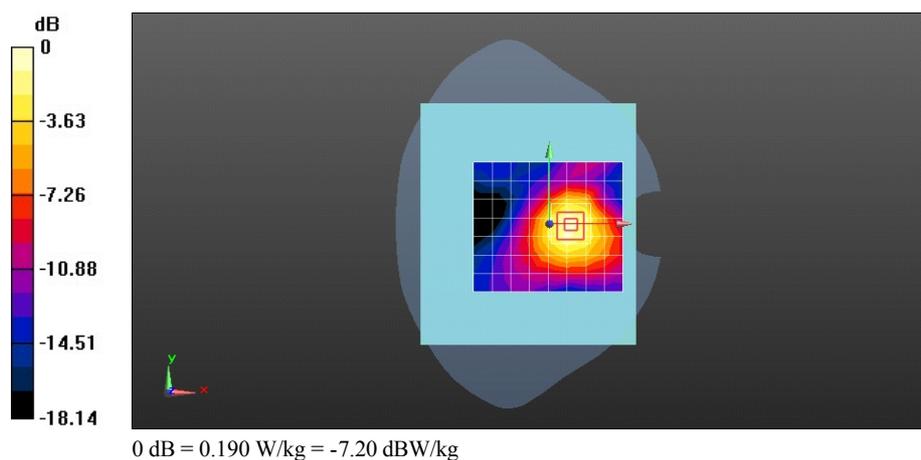
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.886 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.253 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.094 W/kg**

Maximum value of SAR (measured) = 0.190 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 661CH Back side 25mm-antenna horizontal and adapter

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.304 W/kg

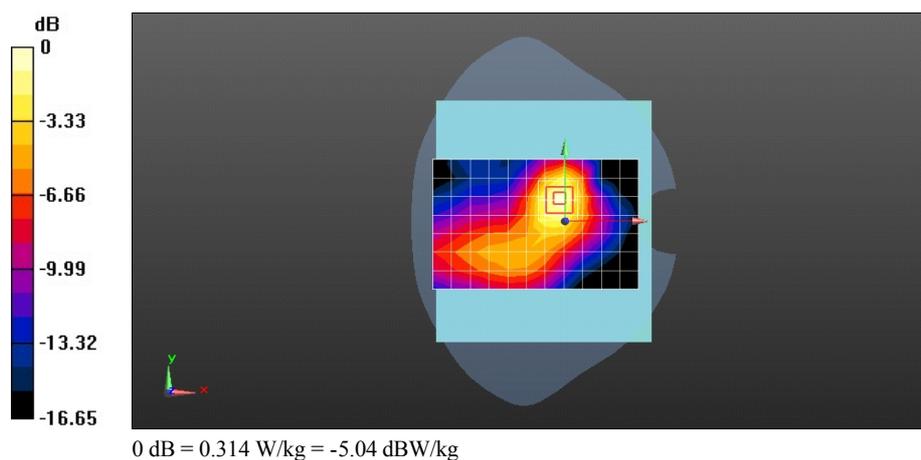
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.928 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.417 W/kg

**SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.155 W/kg**

Maximum value of SAR (measured) = 0.314 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 661CH Back side 25mm-antenna horizontal with battery 2#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.315 W/kg

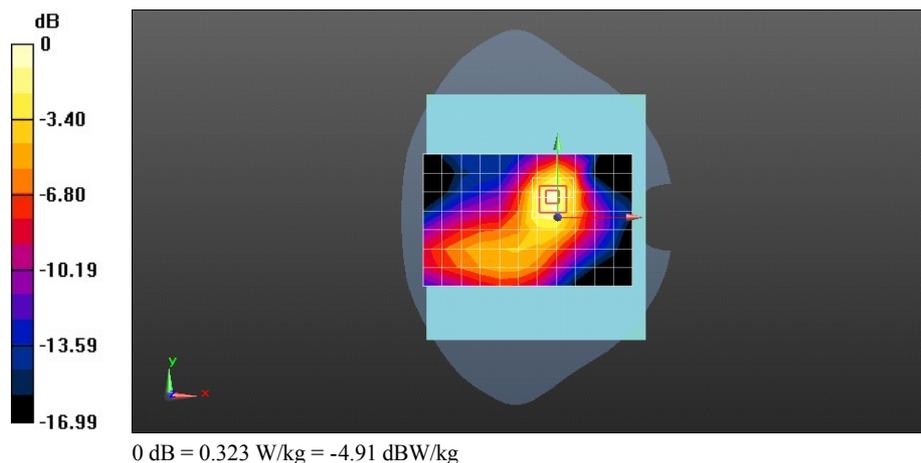
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.351 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.430 W/kg

**SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.160 W/kg**

Maximum value of SAR (measured) = 0.323 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 661CH Back side 25mm-antenna horizontal with battery 3#

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.293 W/kg

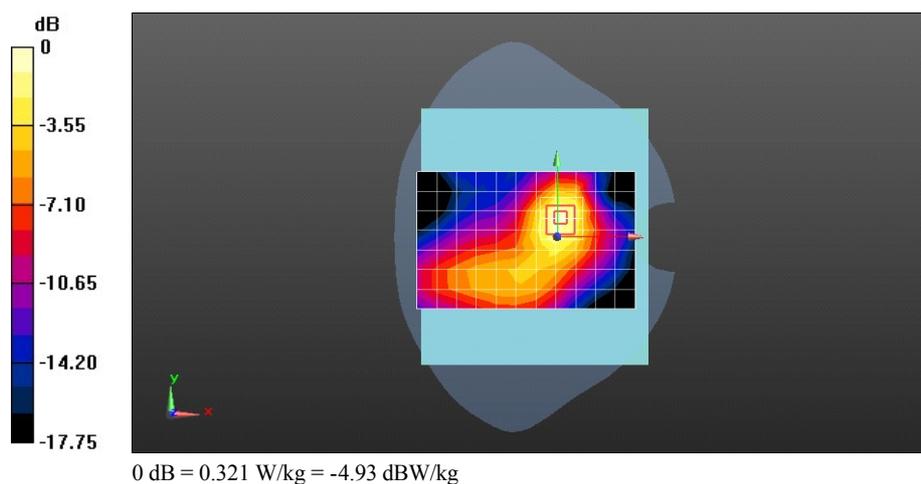
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.607 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.427 W/kg

**SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.159 W/kg**

Maximum value of SAR (measured) = 0.321 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.128 W/kg

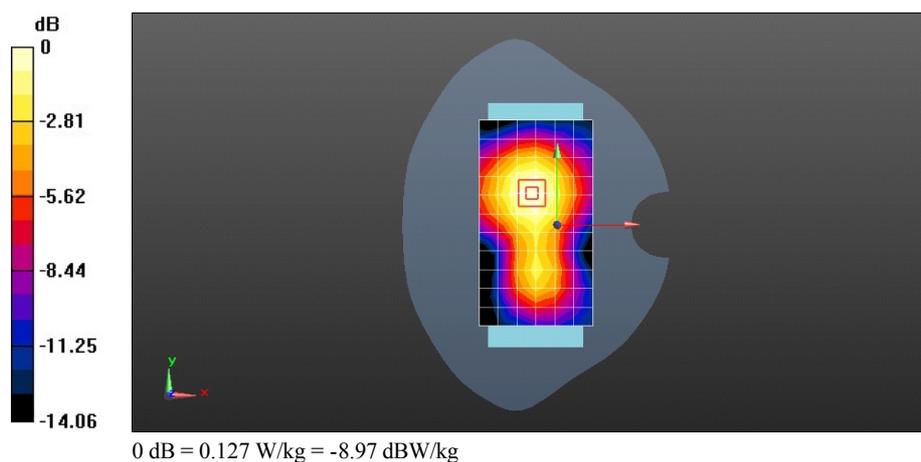
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.167 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.163 W/kg

**SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.069 W/kg**

Maximum value of SAR (measured) = 0.127 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Top side 25mm-antenna Vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.184 W/kg

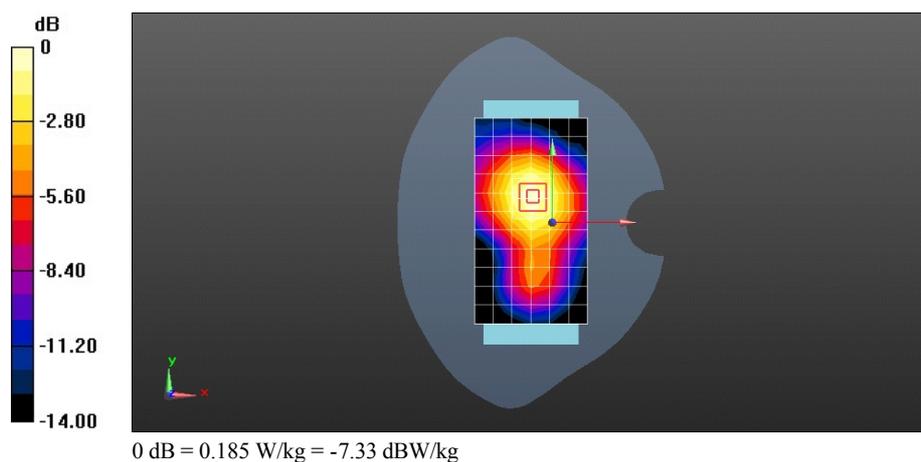
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.805 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.239 W/kg

**SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.099 W/kg**

Maximum value of SAR (measured) = 0.185 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.385 W/kg

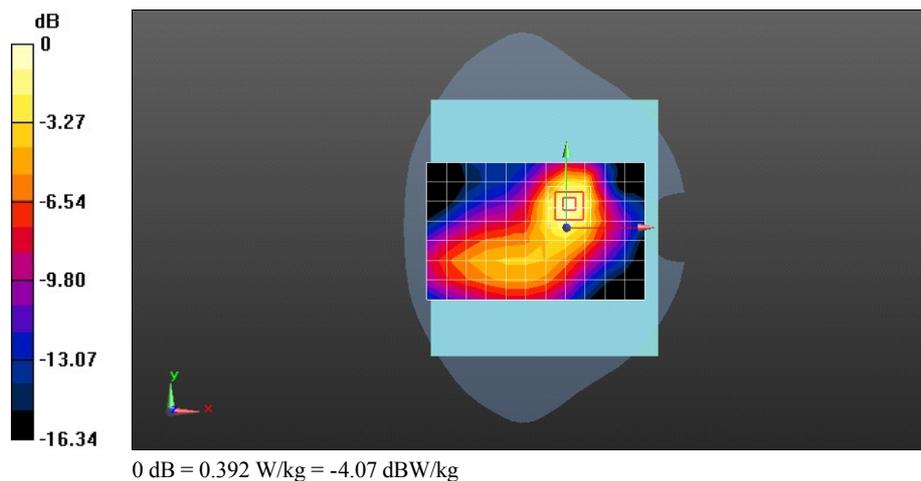
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.667 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.524 W/kg

**SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.197 W/kg**

Maximum value of SAR (measured) = 0.392 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Back side 25mm-antenna Vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (9x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.257 W/kg

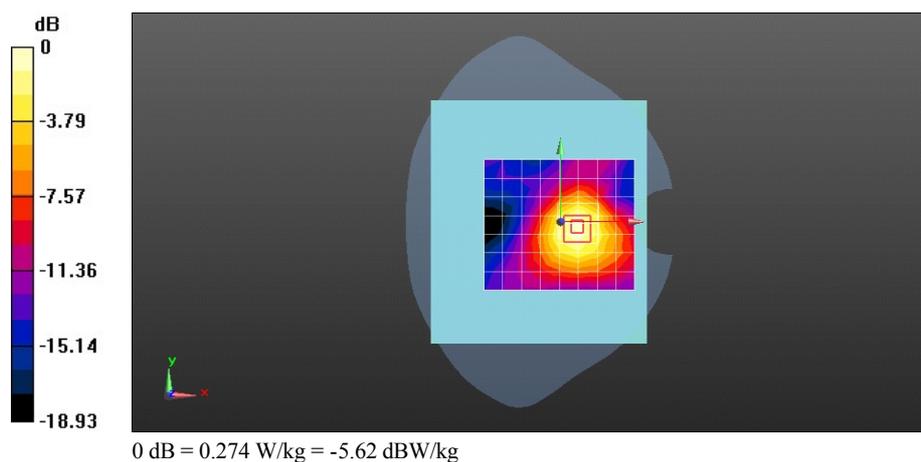
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.026 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.367 W/kg

**SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.138 W/kg**

Maximum value of SAR (measured) = 0.274 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Back side 25mm-antenna horizontal with battery 1# and adapter

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.274 W/kg

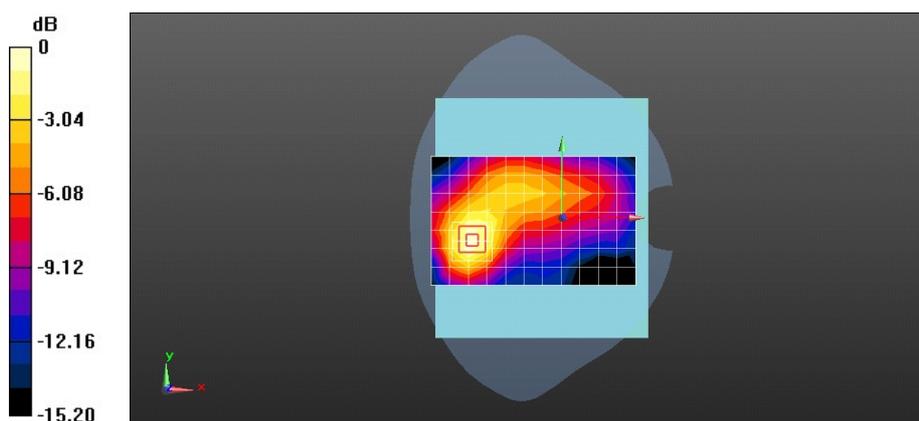
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.066 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.379 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.151 W/kg**

Maximum value of SAR (measured) = 0.295 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Back side 25mm-antenna horizontal with battery 2#

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.344 W/kg

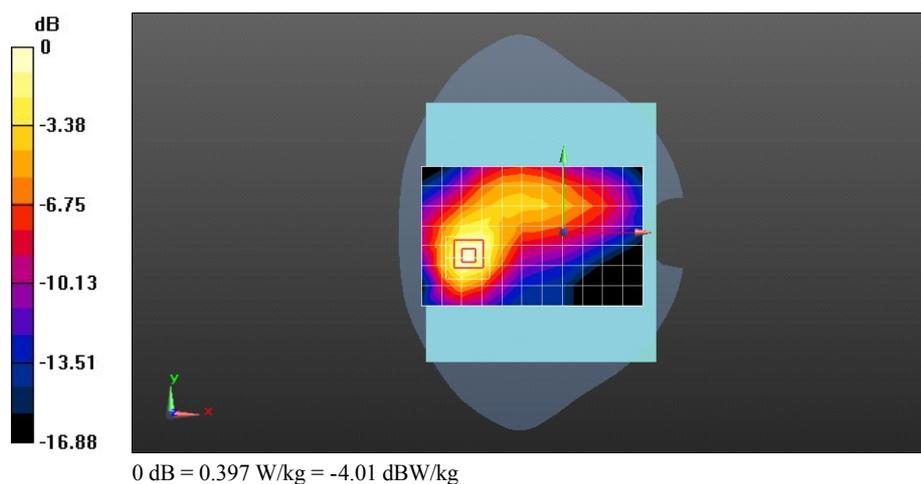
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.033 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.520 W/kg

**SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.200 W/kg**

Maximum value of SAR (measured) = 0.397 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 GSM1900 GPRS 2TS 661CH Back side 25mm-antenna horizontal with battery 3#

**DUT: F615-51; Type: Fixed Wireless Terminal; 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;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.322 W/kg

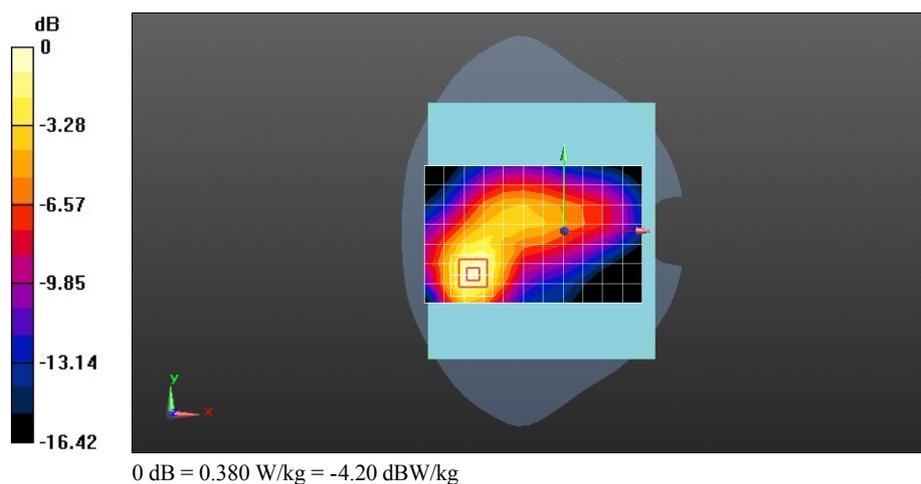
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.969 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.496 W/kg

**SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.193 W/kg**

Maximum value of SAR (measured) = 0.380 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4182CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.597 W/kg

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

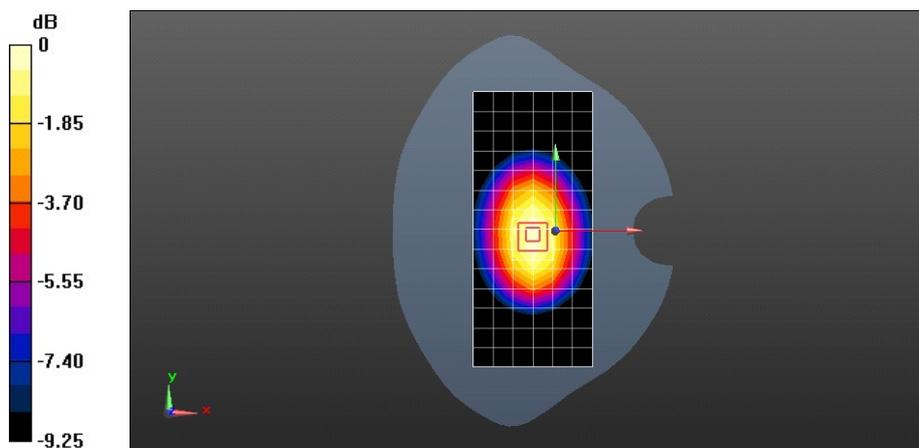
Reference Value = 25.160 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.723 W/kg

**SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.383 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.607 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**F615-51 UMTS Band V 4182CH Top side 25mm-antenna vertical****DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.843 W/kg

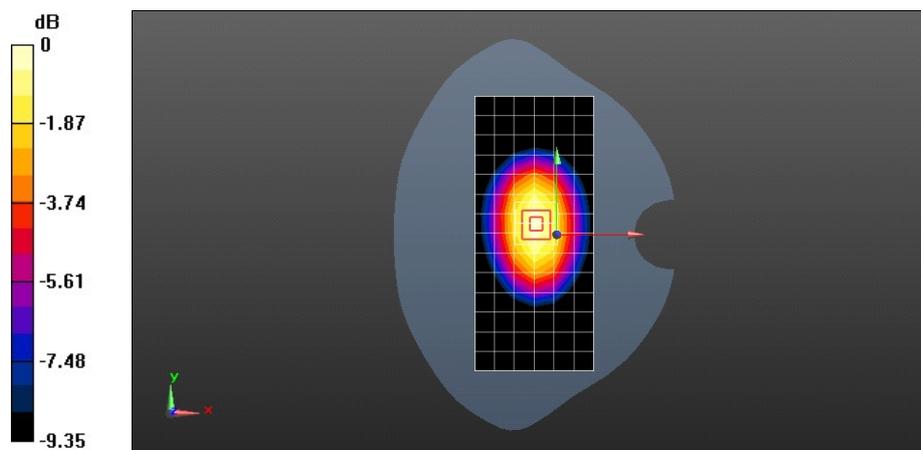
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.214 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.547 W/kg**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.885 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**F615-51 UMTS Band V 4132CH Top side 25mm-antenna vertical****DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.932$  S/m;  $\epsilon_r = 54.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.715 W/kg

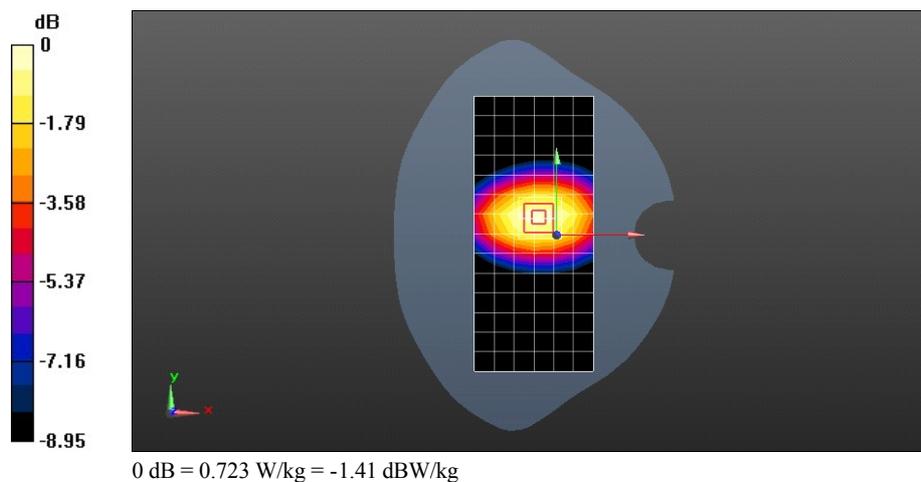
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.350 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.854 W/kg

**SAR(1 g) = 0.642 W/kg; SAR(10 g) = 0.458 W/kg**[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.723 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4233CH Top side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 54.108$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.721 W/kg

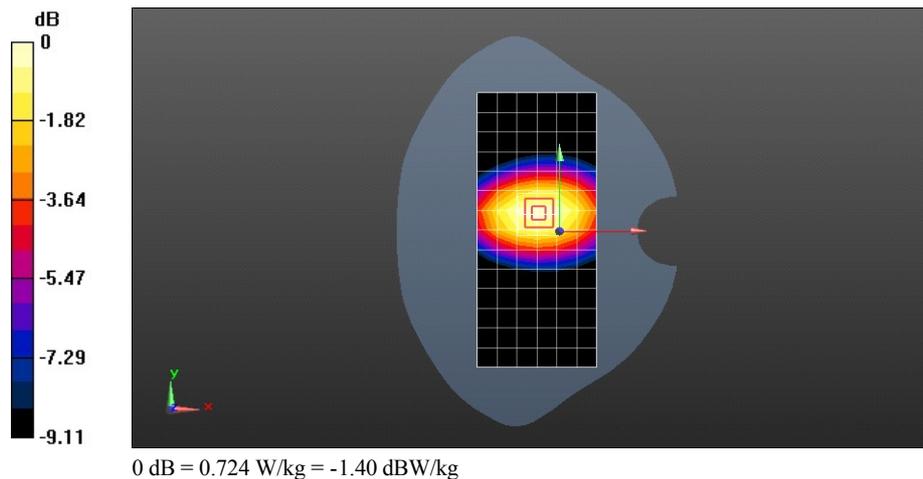
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 24.370 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.859 W/kg

**SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.456 W/kg**

Maximum value of SAR (measured) = 0.724 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4182CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.638 W/kg

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

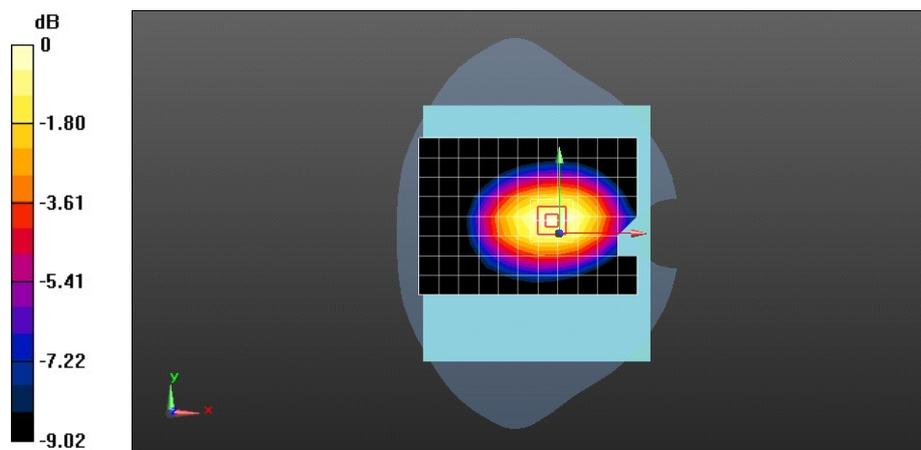
Reference Value = 23.977 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.772 W/kg

**SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.412 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.655 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4132CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.932$  S/m;  $\epsilon_r = 54.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.570 W/kg

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

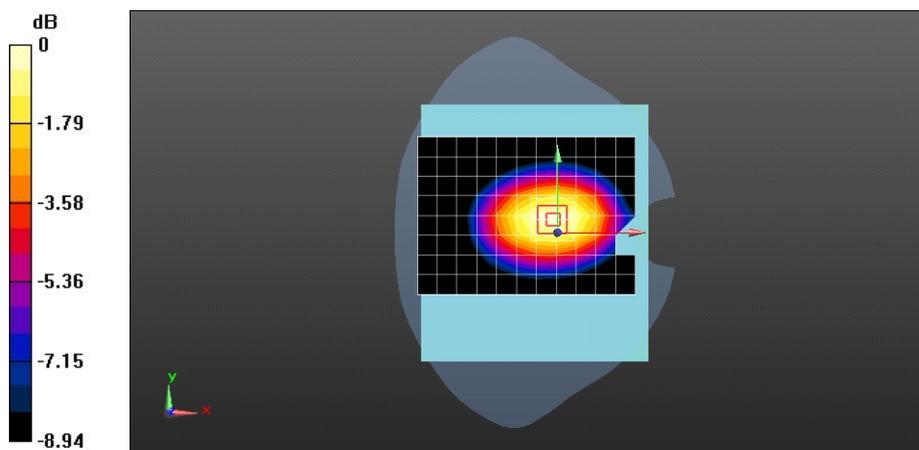
Reference Value = 22.191 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.678 W/kg

**SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.363 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.574 W/kg



0 dB = 0.574 W/kg = -2.41 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4233CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 54.108$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.4(1052); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.521 W/kg

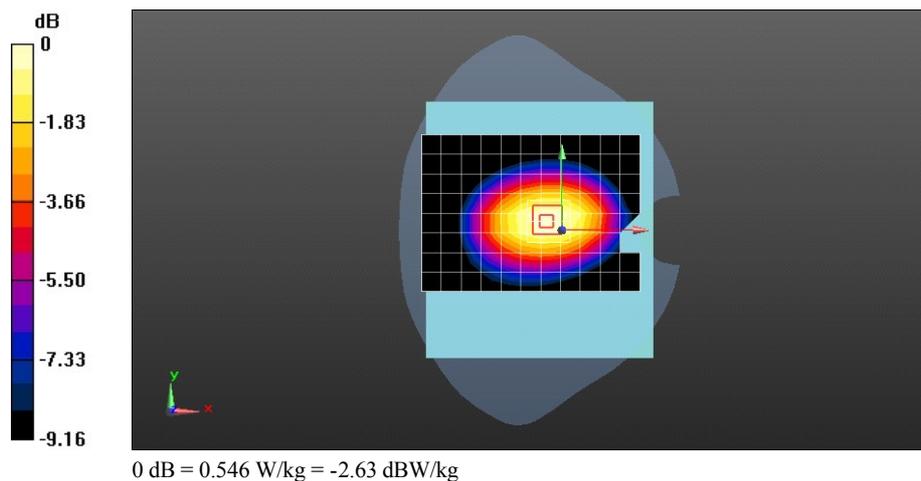
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 23.006 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.649 W/kg

**SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.348 W/kg**

Maximum value of SAR (measured) = 0.546 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4182CH Back side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x13x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0277 W/kg

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

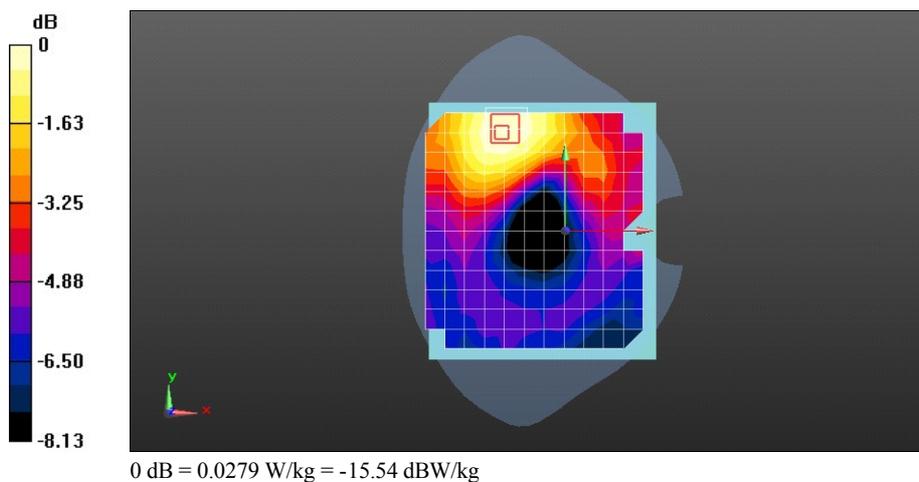
Reference Value = 1.406 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.0320 W/kg

**SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.019 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0279 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## F615-51 UMTS Band V 4182CH Top side 25mm-antenna vertical and adapter

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.753 W/kg

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

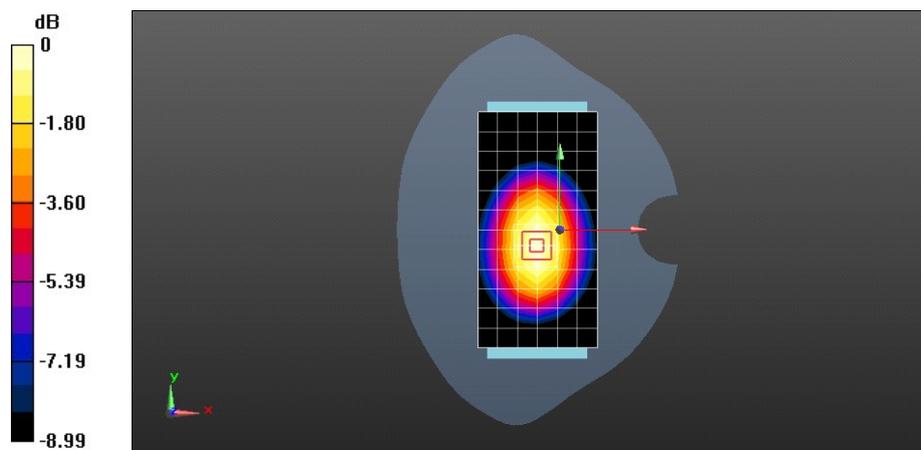
Reference Value = 27.307 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.886 W/kg

**SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.473 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg = -1.27 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4182CH Top side 25mm-antenna vertical with battery 2#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.763 W/kg

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

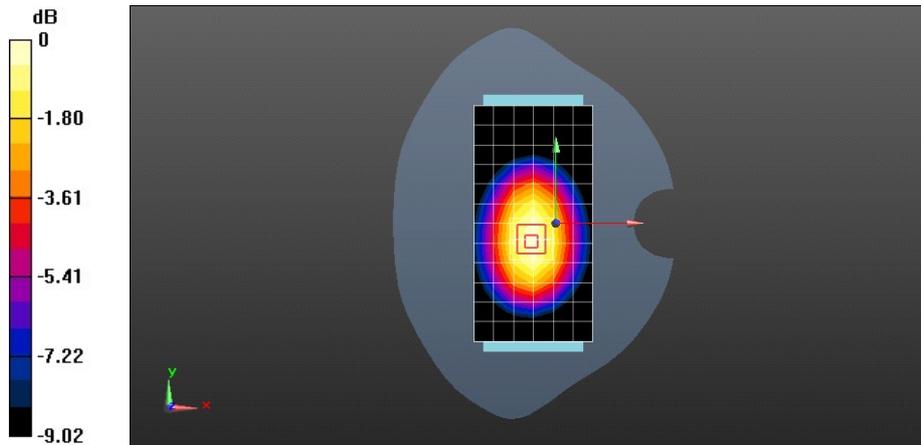
Reference Value = 27.497 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.907 W/kg

**SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.484 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.764 W/kg



0 dB = 0.764 W/kg = -1.17 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band V 4182CH Top side 25mm-antenna vertical with battery 3#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.934$  S/m;  $\epsilon_r = 54.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.758 W/kg

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

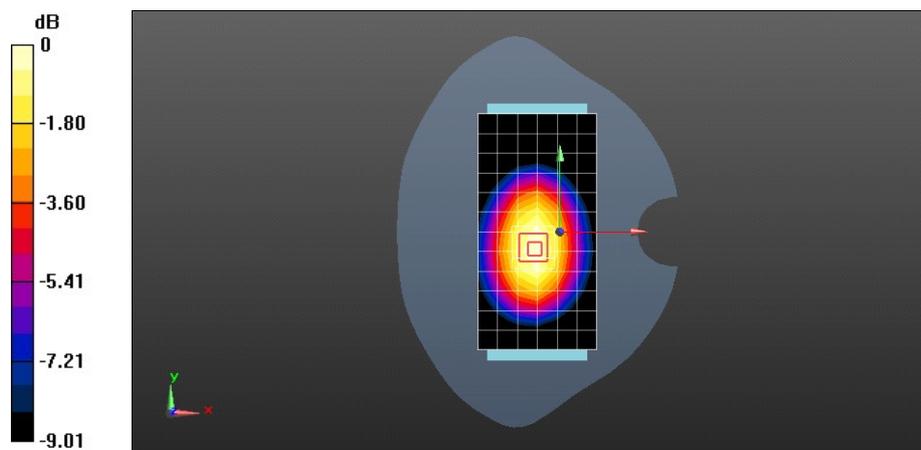
Reference Value = 27.235 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.897 W/kg

**SAR(1 g) = 0.677 W/kg; SAR(10 g) = 0.483 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.756 W/kg



0 dB = 0.756 W/kg = -1.21 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Top side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.221 W/kg

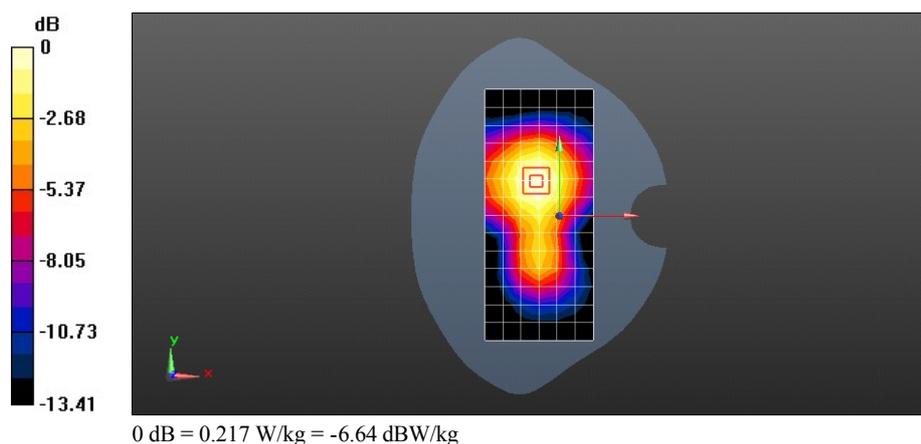
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.985 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.280 W/kg

**SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.119 W/kg**

Maximum value of SAR (measured) = 0.217 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Top side 25mm-antenna Vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD ; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (7x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.315 W/kg

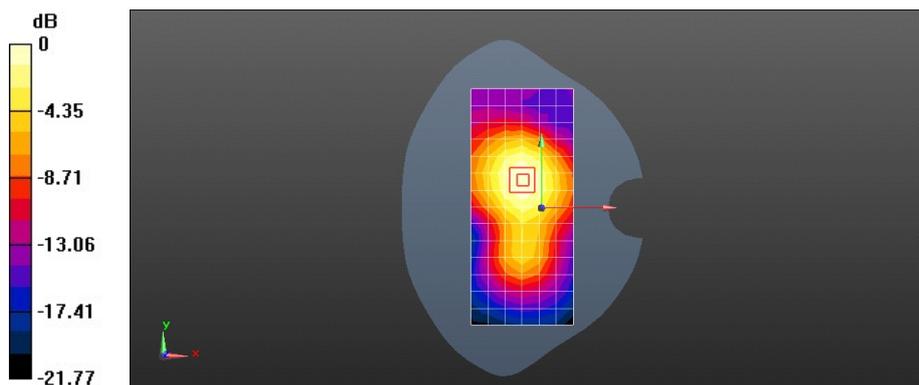
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.705 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.419 W/kg

**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.174 W/kg**

Maximum value of SAR (measured) = 0.325 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Back side 25mm-antenna horizontal

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.457 W/kg

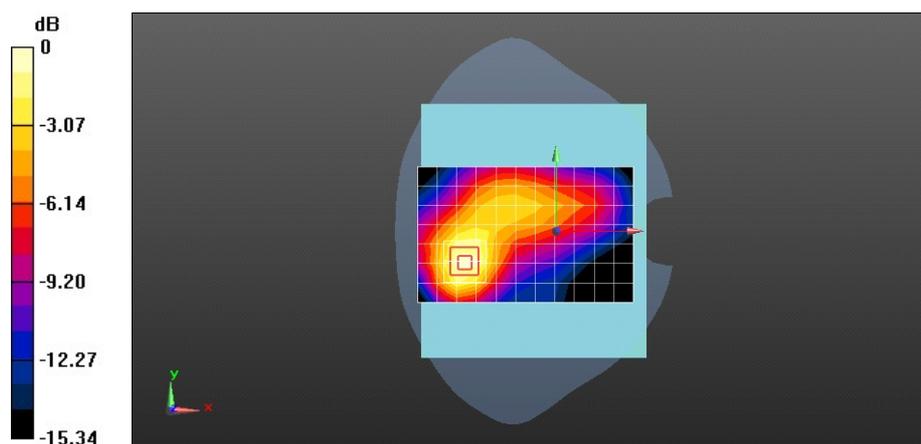
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.398 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.650 W/kg

**SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.259 W/kg**

Maximum value of SAR (measured) = 0.502 W/kg



0 dB = 0.502 W/kg = -2.99 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Back side 25mm-antenna vertical

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0462 W/kg

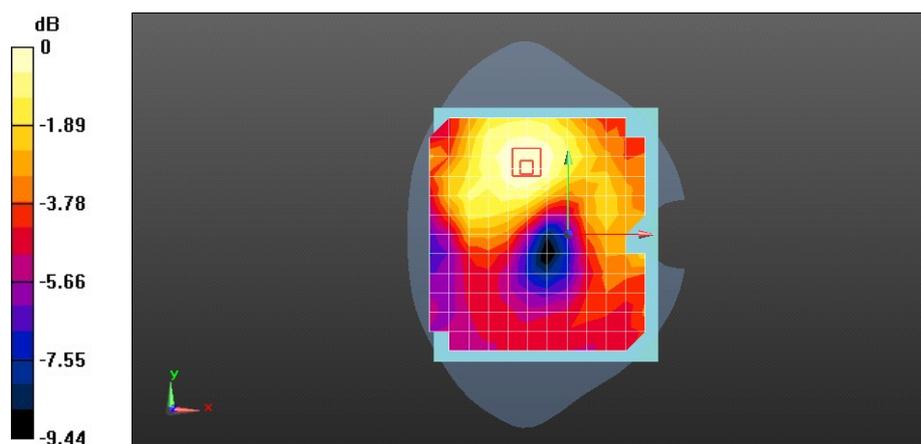
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 1.938 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0540 W/kg

**SAR(1 g) = 0.042 W/kg; SAR(10 g) = 0.031 W/kg**

Maximum value of SAR (measured) = 0.0466 W/kg



0 dB = 0.0466 W/kg = -13.31 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Back side 25mm-antenna horizontal with battery 1# and adapter

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.431 W/kg

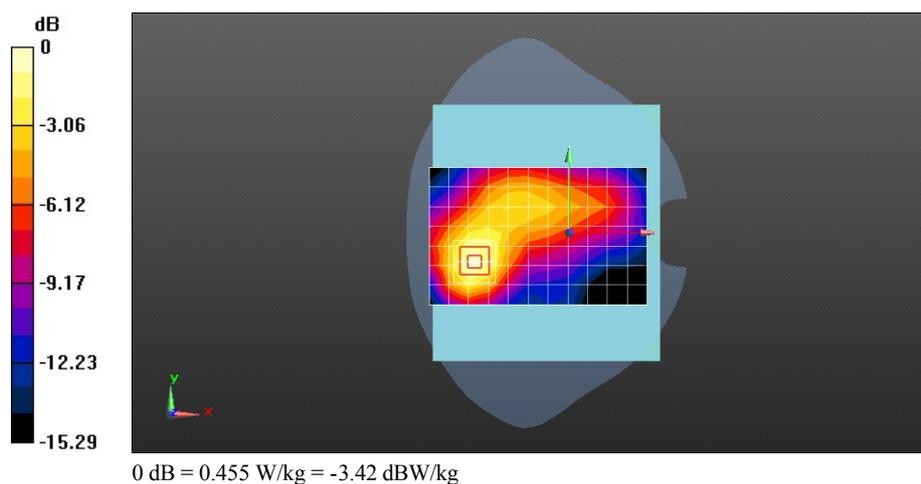
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.876 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.586 W/kg

**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.234 W/kg**

Maximum value of SAR (measured) = 0.455 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Back side 25mm-antenna horizontal with battery 2#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.357 W/kg

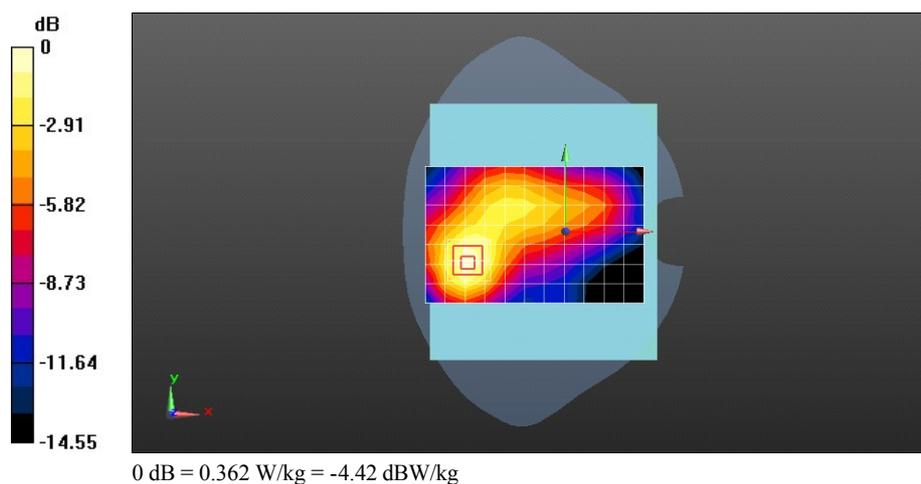
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.972 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.466 W/kg

**SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.191 W/kg**

Maximum value of SAR (measured) = 0.362 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F615-51 UMTS Band II 9400CH Back side 25mm-antenna horizontal with battery 3#

**DUT: F615-51; Type: Fixed Wireless Terminal; Serial: SAR1**

Communication System: UID 0, HW-UMTS-FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.553$  S/m;  $\epsilon_r = 51.475$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.72, 4.72, 4.72); Calibrated: 2013-9-30;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn1305; Calibrated: 2013-1-8
- Phantom: SAM 2; Type: SAM; Serial: TP-1474
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/Body/Area Scan (12x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.357 W/kg

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

Reference Value = 9.387 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.486 W/kg

**SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.198 W/kg**

Maximum value of SAR (measured) = 0.376 W/kg

