

## Appendix B. SAR Measurement Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

### F617-51 GSM850 GPRS 2TS 251CH Top side 25mm-antenna vertical

**DUT: F617-51; 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:  $f = 848.8$  MHz;  $\sigma = 1.013$  S/m;  $\epsilon_r = 56.82$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(9.42, 9.42, 9.42); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 1.40 W/kg

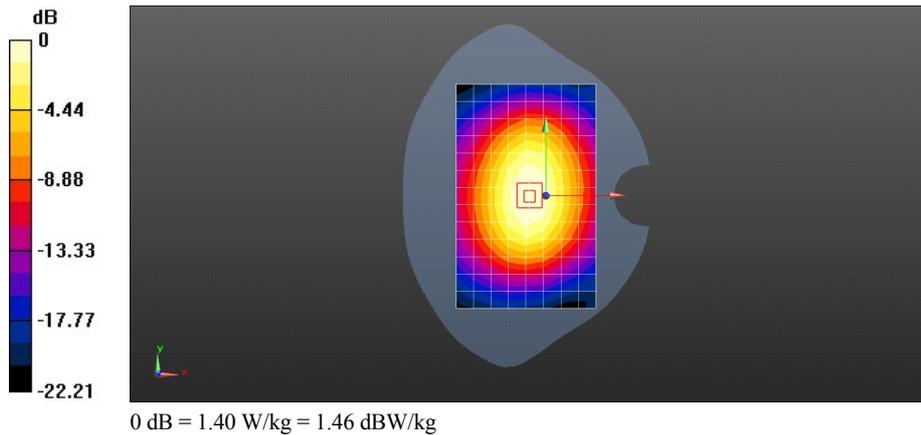
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 35.91 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.896 W/kg**

Maximum value of SAR (measured) = 1.36 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### F617-51 GSM1900 GPRS 2TS 661CH Top side 25mm-antenna horizontal

**DUT: F617-51; 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;  $\sigma = 1.55$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(7.24, 7.24, 7.24); Calibrated: 2015-7-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.406 W/kg

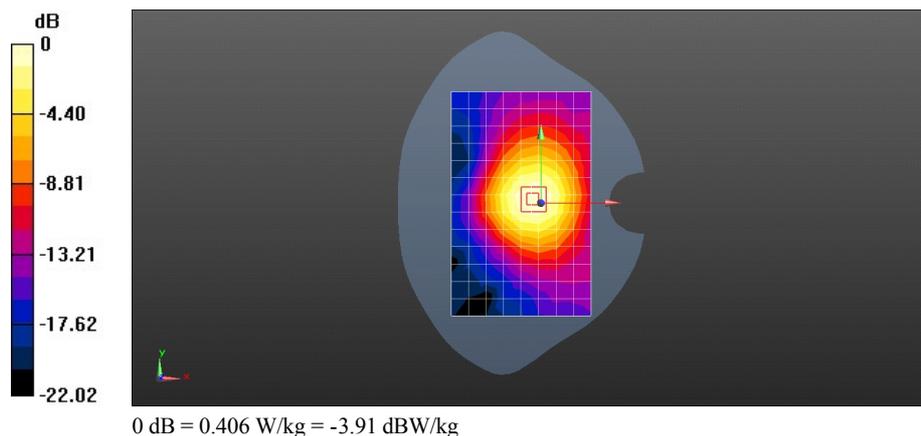
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 14.94 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.225 W/kg**

Maximum value of SAR (measured) = 0.424 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**F617-51 UMTS Band V 4132CH Top side 25mm-antenna vertical with battery 2#-Repeated****DUT: F617-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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;  $\sigma = 0.994$  S/m;  $\epsilon_r = 57.031$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3744; ConvF(8.82, 8.82, 8.82); Calibrated: 2015-7-24;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mmInfo: [Interpolated medium parameters used for SAR evaluation.](#)

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

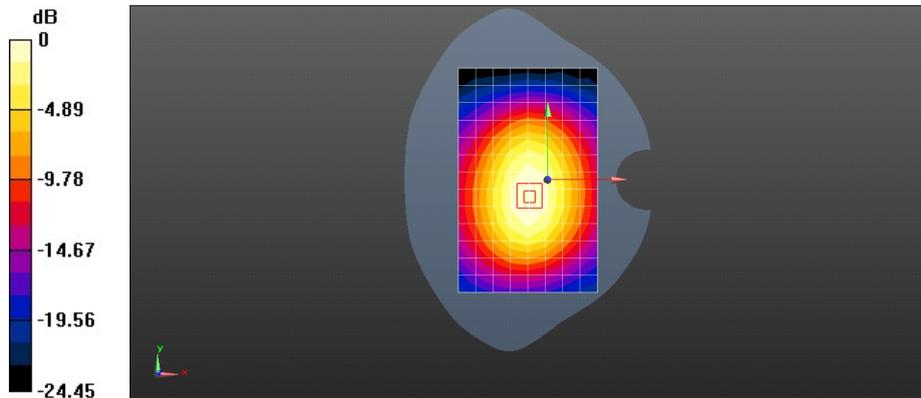
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.59 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.903 W/kg; SAR(10 g) = 0.638 W/kg**Info: [Interpolated medium parameters used for SAR evaluation.](#)

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



0 dB = 0.993 W/kg = -0.03 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### F617-51 UMTS Band II 9400CH Top side 25mm-antenna vertical

**DUT: F617-51; Type: Fixed Wireless Terminal; Serial: SAR1**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7350; ConvF(7.82, 7.82, 7.82); Calibrated: 2015-1-8;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2015-4-27
- Phantom: SAM2; Type: SAM; Serial: TP:1474
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

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

Reference Value = 14.41 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.500 W/kg

**SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.231 W/kg**

Maximum value of SAR (measured) = 0.405 W/kg

