

# **ANNEX A Photographs**

**Confidential** 









### **ANNEX B Graphical Results**

#### FCC\_Head\_RightCheek\_GSM850\_Low

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 824.2 MHz;  $\sigma = 0.941$  mho/m;  $\epsilon_r = 0.$ 

42.9;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# Sonim\_Right\_Cheek\_Low/Area Scan (81x41x1): Measurement grid:

dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.862 mW/g

#### Sonim\_Right\_Cheek\_Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.58 V/m; Power Drift = -0.228 dB

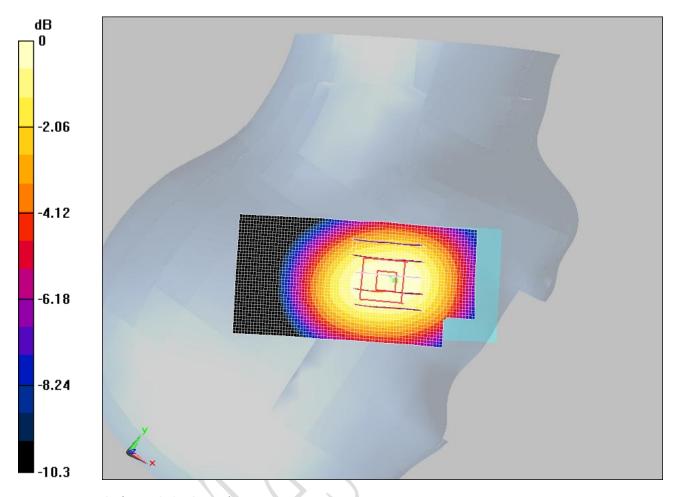
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.586 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.846 mW/g





0 dB = 0.846 mW/g



#### FCC\_Head\_RightCheek\_GSM850\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 837 MHz;  $\sigma = 0.94 \text{ mho/m}$ ;  $\varepsilon_r = 42.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

#### Sonim\_Right\_Cheek\_Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.621 mW/g

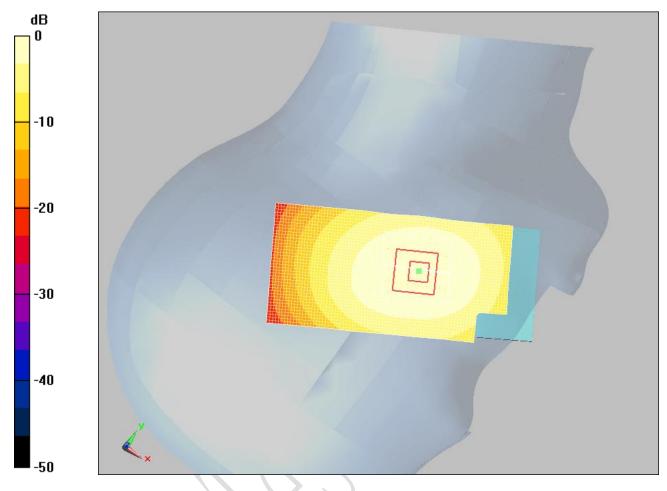
Maximum value of SAR (measured) = 0.879 mW/g

#### Sonim\_Right\_Cheek\_Mid/Area Scan (81x41x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.912 mW/g





0 dB = 0.912 mW/g



#### FCC\_Head\_RightCheek\_GSM850\_High

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 849 MHz;  $\sigma$  = 0.928 mho/m;  $\epsilon_r$  = 41.6;  $\rho$  = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

#### Sonim\_Right\_Cheek\_High/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.92 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.886 mW/g; SAR(10 g) = 0.647 mW/g

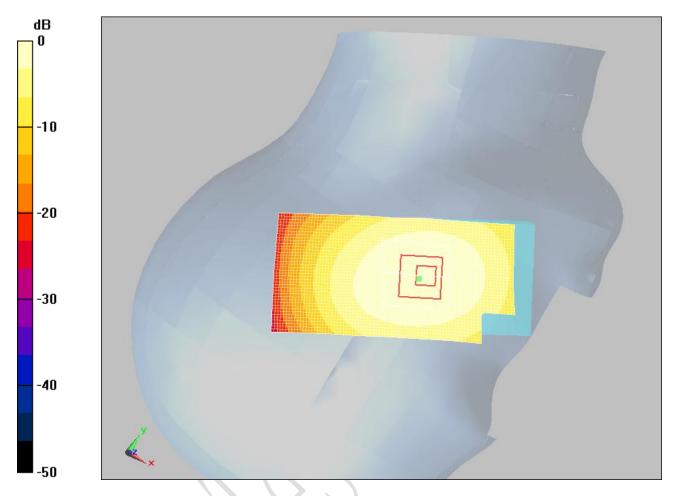
Maximum value of SAR (measured) = 0.934 mW/g

#### Sonim\_Right\_Cheek\_High/Area Scan (81x41x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.926 mW/g







#### FCC\_Head\_RightTilt\_GSM850\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 837 MHz;  $\sigma = 0.94 \text{ mho/m}$ ;  $\varepsilon_r = 42.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **Sonim\_Right\_Tilt\_Mid/Area Scan (81x41x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.531 mW/g

#### Sonim\_Right\_Tilt\_Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

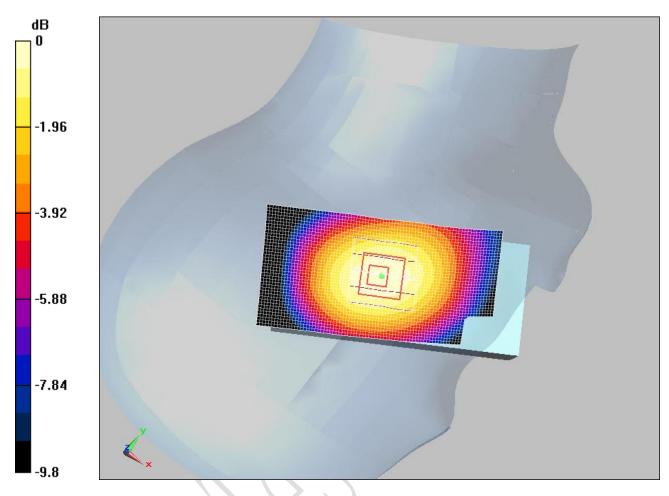
Reference Value = 13.4 V/m; Power Drift = -1.79e-005 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.531 mW/g





0 dB = 0.531 mW/g



#### FCC\_Head\_LeftCheek\_GSM850\_Low

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 824.2 MHz;  $\sigma$  = 0.941 mho/m;  $\epsilon_r$  =

42.9;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Sonim cheek low left/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.737 mW/g

Sonim cheek low left/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.63 V/m; Power Drift = 0.102 dB

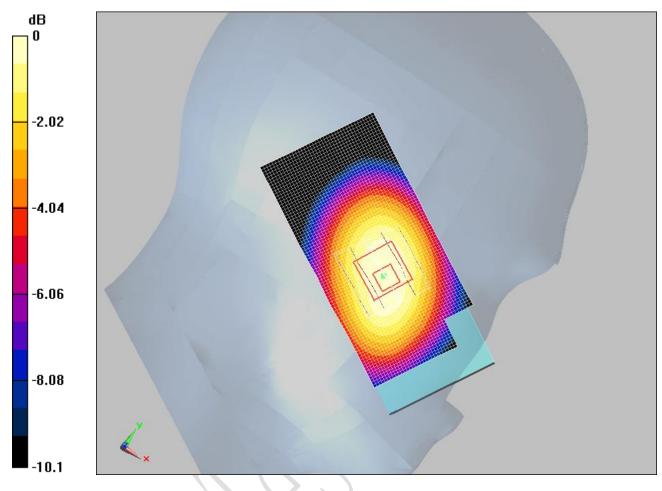
Peak SAR (extrapolated) = 0.901 W/kg

SAR(1 g) = 0.691 mW/g; SAR(10 g) = 0.503 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.717 mW/g







#### FCC\_Head\_LeftCheek\_GSM850\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 837 MHz;  $\sigma = 0.94 \text{ mho/m}$ ;  $\varepsilon_r = 42.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **Sonim cheek mid Left/Area Scan (81x41x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.882 mW/g

#### Sonim cheek mid Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

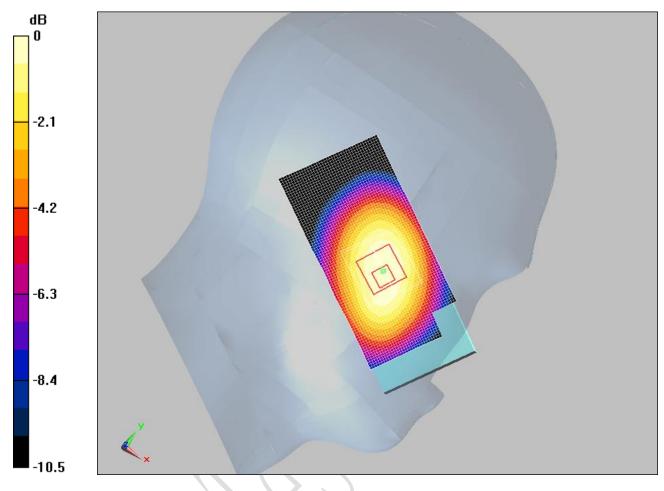
Reference Value = 10.8 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 1.09 W/kg

## SAR(1 g) = 0.826 mW/g; SAR(10 g) = 0.594 mW/g

Maximum value of SAR (measured) = 0.859 mW/g







#### FCC\_Head\_LeftCheek\_GSM850\_High

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 849 MHz;  $\sigma$  = 0.928 mho/m;  $\epsilon_r$  = 41.6;  $\rho$  = 1000

kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

• Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **Sonim cheek High left/Area Scan (81x41x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.986 mW/g

#### Sonim cheek High left/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

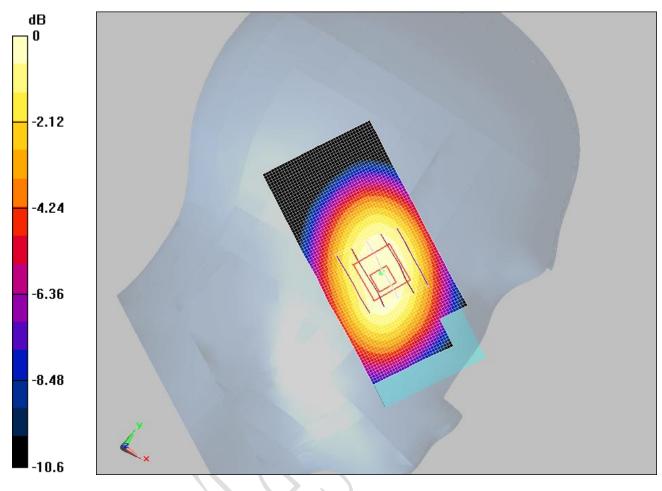
Reference Value = 11.2 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.642 mW/g

Maximum value of SAR (measured) = 0.921 mW/g







#### FCC\_Head\_LeftTilt\_GSM850\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 837 MHz;  $\sigma = 0.94 \text{ mho/m}$ ;  $\varepsilon_r = 42.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

Sonim tilt mid Left/Area Scan (81x41x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.577 mW/g

Sonim tilt mid Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

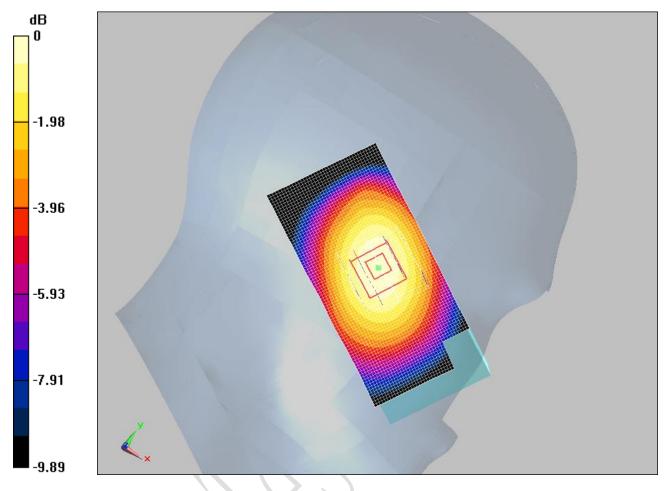
Reference Value = 14.4 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.714 W/kg

SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.401 mW/g

Maximum value of SAR (measured) = 0.581 mW/g







FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003

#### Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2

#### FCC\_Head\_LeftCheek\_GSM850\_High\_HighBattery

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 849 MHz;  $\sigma = 0.928$  mho/m;  $\varepsilon_r = 41.6$ ;  $\rho = 1000$ 

kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

• Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

### Sonim cheek High left/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.797 mW/g

#### Sonim cheek High left/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.074 dB

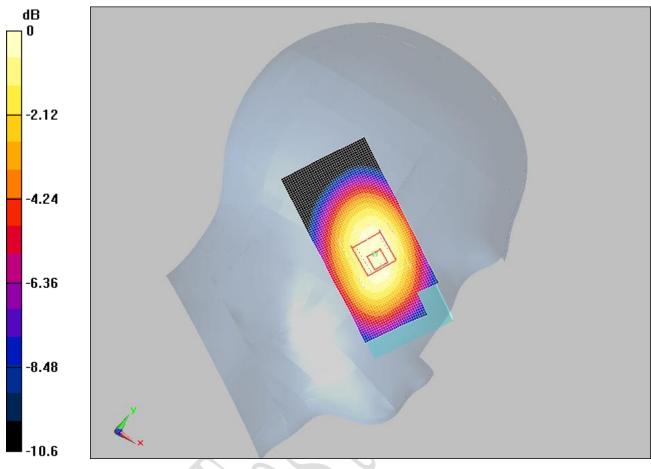
Peak SAR (extrapolated) = 0.983 W/kg

SAR(1 g) = 0.745 mW/g; SAR(10 g) = 0.541 mW/g

Maximum value of SAR (measured) = 0.781 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Head\_RightCheek\_PCS1900\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.36 mho/m;  $\epsilon_r$  = 39.4;  $\rho$  = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

## gsm\_Cheek\_Right mid/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.622 mW/g

#### gsm\_Cheek\_Right mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.88 V/m; Power Drift = -0.342 dB

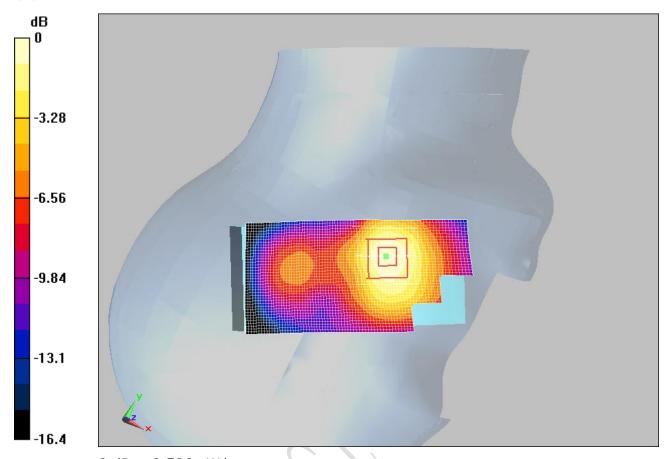
Peak SAR (extrapolated) = 0.796 W/kg

#### SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.330 mW/g

Maximum value of SAR (measured) = 0.586 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Head\_RightTilt\_PCS1900\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.36 mho/m;  $\epsilon_r$  = 39.4;  $\rho$  = 1000

kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

#### gsm\_Tilt\_Right mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.74 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 0.257 W/kg

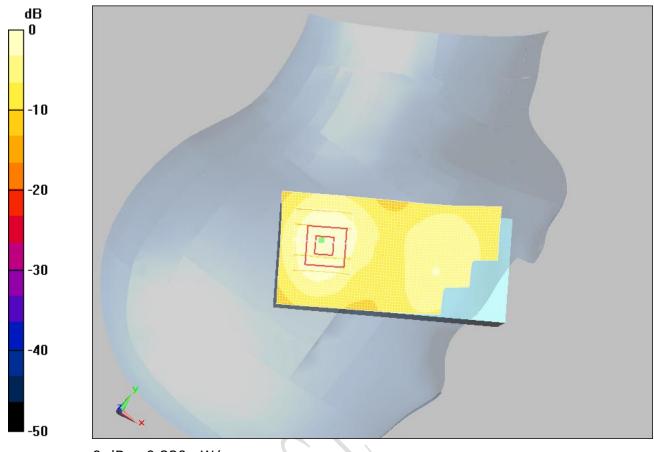
#### SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.189 mW/g

### gsm\_Tilt\_Right mid/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.220 mW/g







#### FCC\_Head\_LeftCheek\_PCS1900\_Low

### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 1850.2 MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

#### gsm\_Cheek\_Left Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.41 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.274 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.494 mW/g

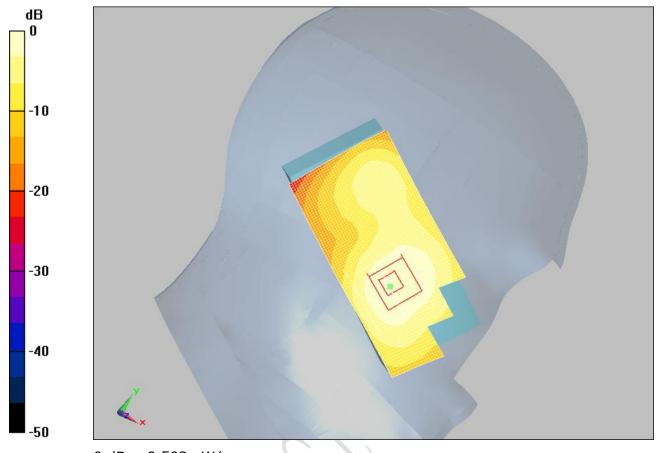
gsm\_Cheek\_Left Low/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.502 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Head\_LeftCheek\_PCS1900\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.36 mho/m;  $\epsilon_r$  = 39.4;  $\rho$  = 1000

kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

• Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

## gsm\_Cheek\_Left mid/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.614 mW/g

#### gsm\_Cheek\_Left mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.52 V/m; Power Drift = 0.091 dB

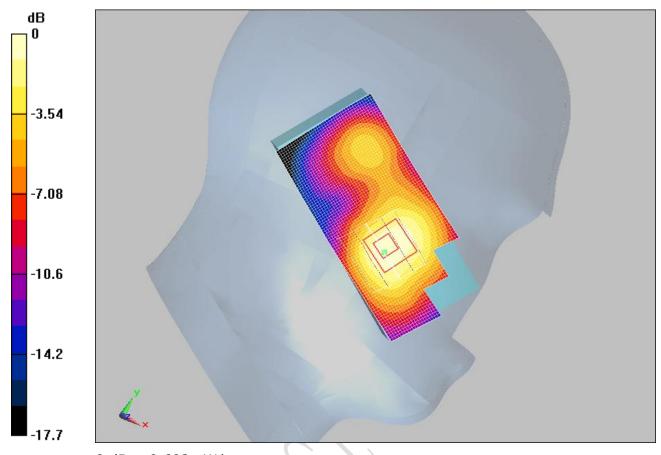
Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.332 mW/g

Maximum value of SAR (measured) = 0.603 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Head\_LeftCheek\_PCS1900\_High

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1910 MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# gsm\_Cheek\_Left High/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.647 mW/g

#### gsm\_Cheek\_Left High/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.97 V/m; Power Drift = 0.036 dB

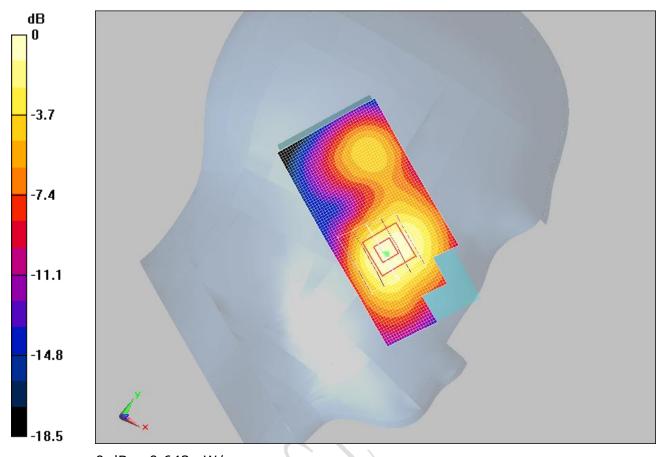
Peak SAR (extrapolated) = 0.926 W/kg

SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.643 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Head\_LeftTilt\_PCS1900\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.36 mho/m;  $\epsilon_r$  = 39.4;  $\rho$  = 1000

kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

• Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# gsm\_Tilt\_Left mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 9.34 V/m; Power Drift = -0.00902 dB

Peak SAR (extrapolated) = 0.303 W/kg

#### SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.215 mW/g

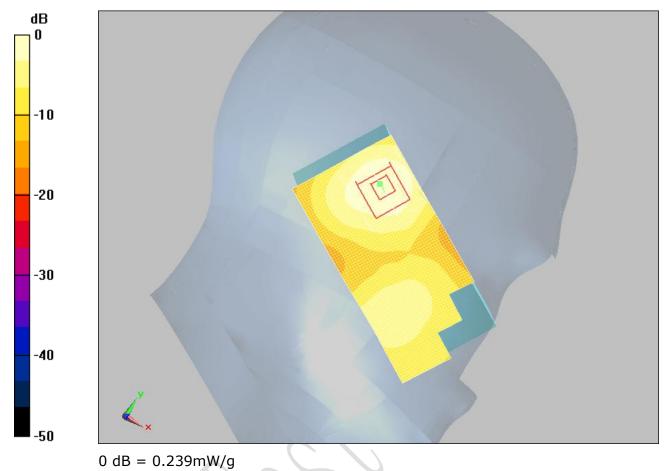
# gsm\_Tilt\_Left mid/Area Scan (81x41x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.239 mW/g



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#### FCC\_Head\_LeftCheek\_PCS1900\_High\_HighBattery

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1910 MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# gsm\_Cheek\_Left High/Area Scan (81x41x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.486 mW/g

#### gsm\_Cheek\_Left High/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = -0.055 dB

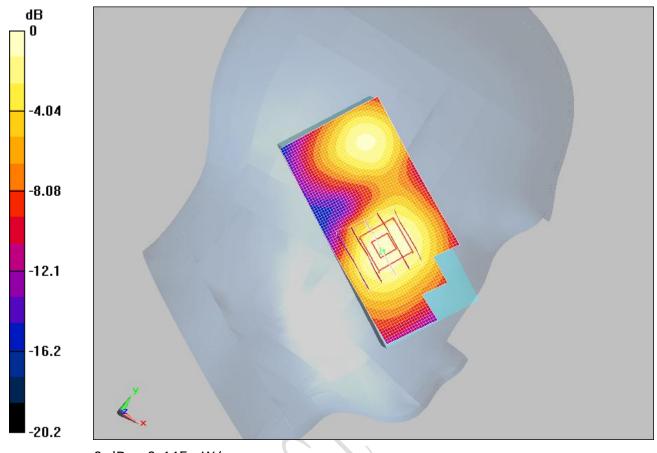
Peak SAR (extrapolated) = 0.644 W/kg

#### SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.248 mW/g

Maximum value of SAR (measured) = 0.445 mW/g



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#### FCC\_Body\_Face\_GSM850\_Low

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 824.2 MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 55.4$ ;  $\rho$ 

 $= 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

gsm\_Face\_Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.516 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.741 mW/g

gsm\_Face\_Low/Area Scan (51x91x1): Measurement grid: dx=15mm,

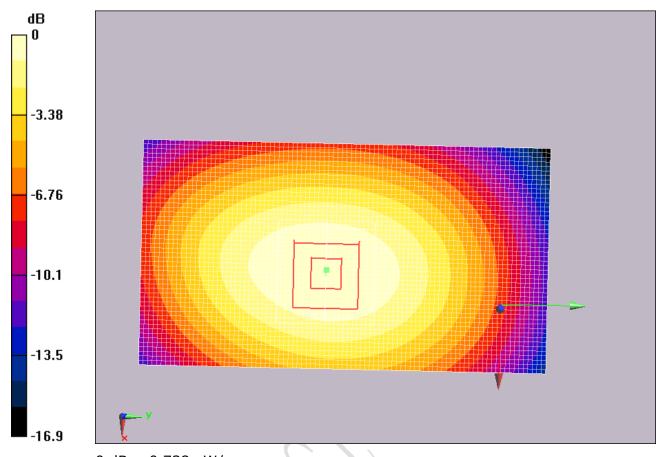
dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.738 mW/g



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#### FCC\_Body\_Face\_GSM850\_Middle

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **GSM\_ Face\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mmReference Value = 12 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.985 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.554 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.801 mW/g

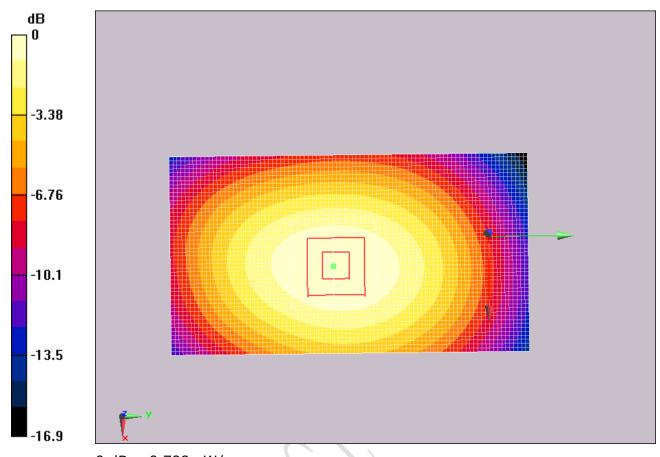
**GSM\_ Face\_Mid/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.799 mW/g



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#### FCC\_Body\_Face\_GSM850\_High

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 848.8 MHz;  $\sigma = 1.03$  mho/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# gsm\_face\_High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.765 mW/g

gsm\_face\_High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.934 W/kg

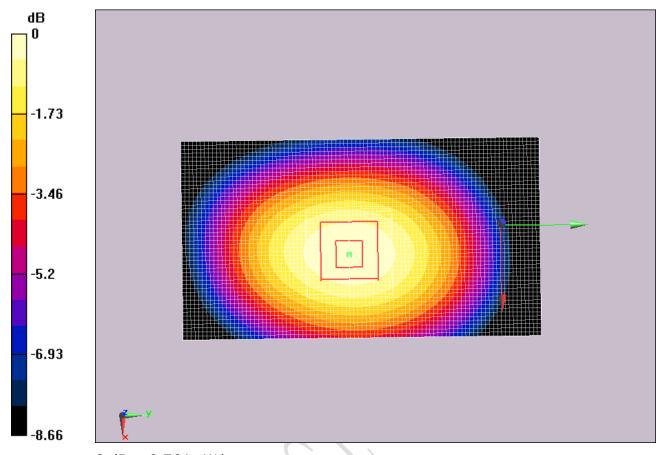
SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.527 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.764 mW/g



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#### FCC\_Body\_Back\_GSM850\_Middle

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **GSM\_Back\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 0.656 W/kg

SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.374 mW/g

#### Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.531 mW/g

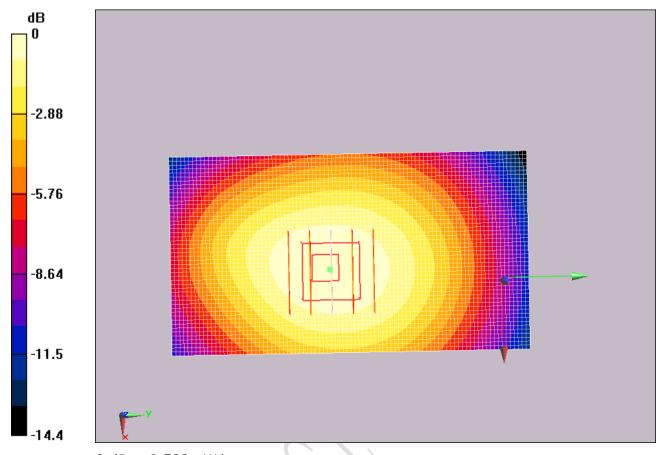
# **GSM\_Back\_Mid/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.532 mW/g



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#### FCC\_Body\_Face\_GSM850\_Middle\_Earphone

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;

 $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

### GSM\_face\_Mid\_earphone/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.603 W/kg

SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.340 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.491 mW/g

#### **GSM\_face\_Mid\_earphone/Area Scan (51x91x1):** Measurement grid:

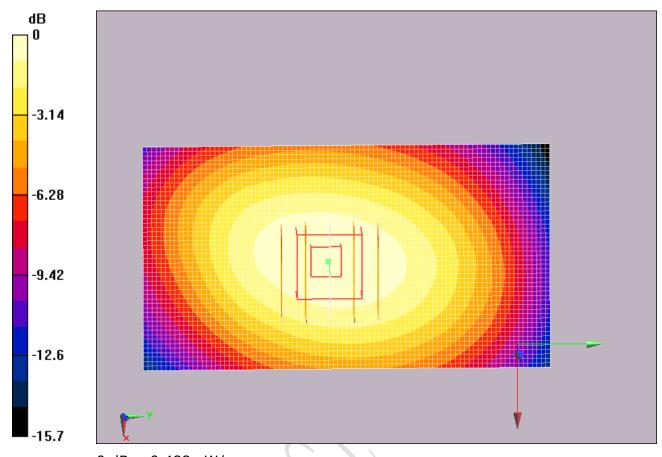
dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.488 mW/g



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### FCC\_Body\_Face\_GSM850\_Middle\_Handfree

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;

 $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_Mid\_Hand-free/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.531 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.768 mW/g

#### **GSM\_face\_Mid\_Hand-free/Area Scan (51x91x1):** Measurement grid:

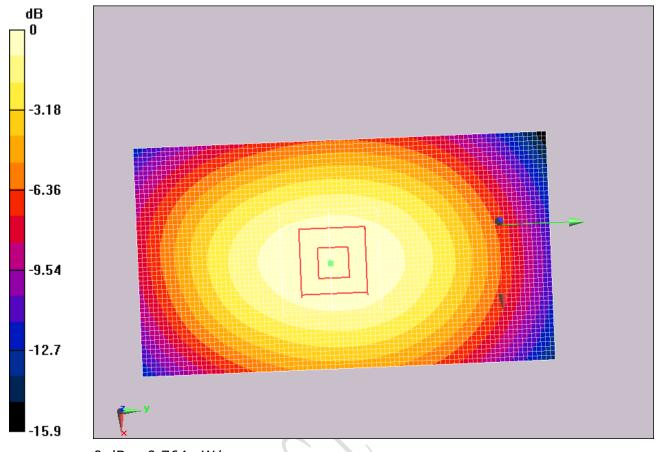
dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.764 mW/g



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#### FCC\_Body\_Face\_GSM850\_Middle\_BT

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **GSM\_Back\_Mid\_BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.656 mW/g; SAR(10 g) = 0.482 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.693 mW/g

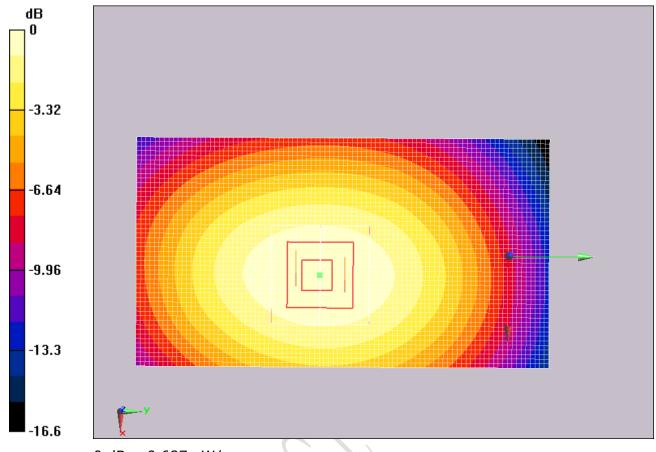
# **GSM\_Back\_Mid\_BT/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.687 mW/g



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### FCC\_Body\_Face\_GPRS850\_4TS\_Low

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used (interpolated): f = 824.2 MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_front\_low\_GPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.962 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.37 mW/g

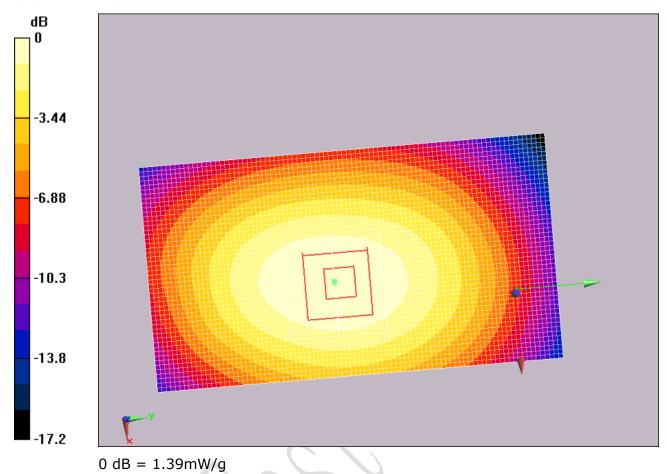
**GSM\_front\_low\_GPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.39 mW/g



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#### FCC\_Body\_Face\_GPRS850\_4TS\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_front\_mid\_GPRS/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.8 V/m; Power Drift = 0.169 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.895 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.29 mW/g

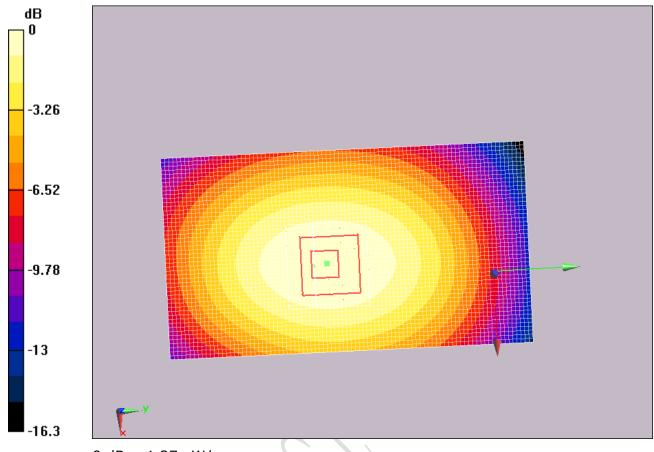
**GSM\_front\_mid\_GPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.27 mW/g



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### FCC\_Body\_Face\_GPRS850\_4TS\_High

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 848.8 MHz;Duty Cycle: 1:2 Medium parameters used (interpolated): f = 848.8 MHz;  $\sigma = 1.03$  mho/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

### **GSM\_front\_high\_GPRS/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.972 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.4 mW/g

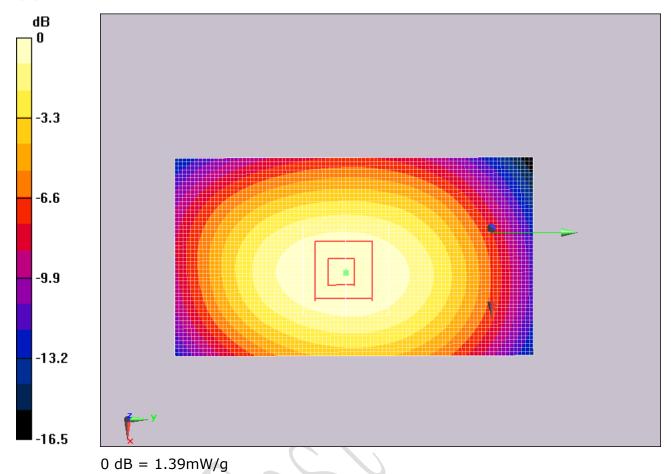
**GSM\_front\_high\_GPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.39 mW/g



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### FCC\_Body\_Face\_EGPRS850\_4TS\_Low

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 824.2 MHz; Duty Cycle: 1:2 Medium parameters used (interpolated): f = 824.2 MHz;  $\sigma = 1$  mho/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **GSM\_front\_low\_EGPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.31 mW/g

# GSM\_front\_low\_EGPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 1.66 W/kg

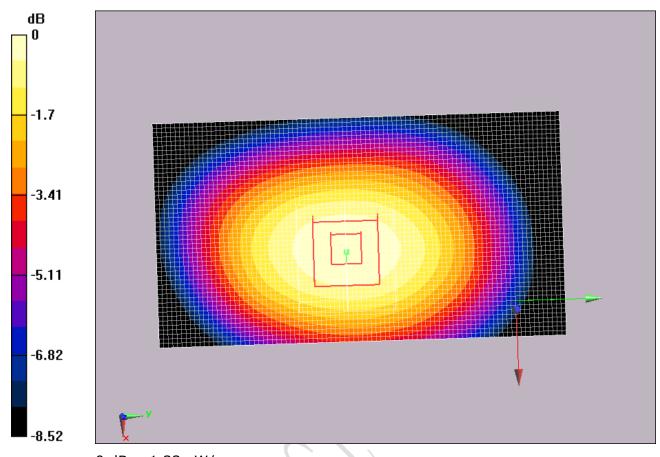
SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.935 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.33 mW/g



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#### FCC\_Body\_Face\_EGPRS850\_4TS\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 836.6 MHz;Duty Cycle: 1:2 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

### **GSM\_front\_mid\_EGPRS/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 15 V/m; Power Drift = 0.107 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.898 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.3 mW/g

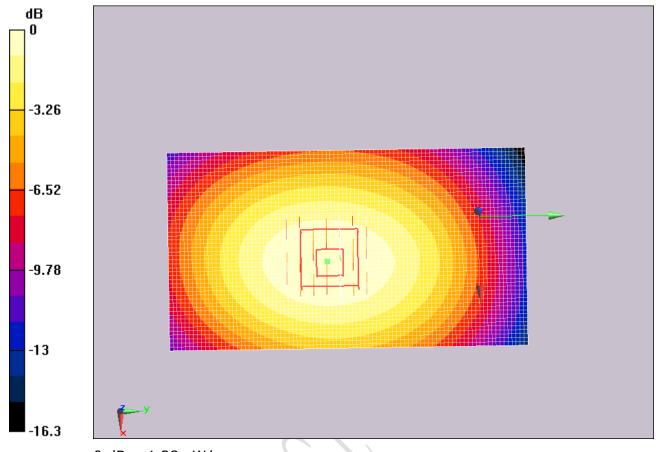
**GSM\_front\_mid\_EGPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.28 mW/g



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#### FCC\_Body\_Face\_EGPRS850\_4TS\_High

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 848.8 MHz; Duty Cycle: 1:2 Medium parameters used (interpolated): f = 848.8 MHz;  $\sigma = 1.03$  mho/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_front\_high\_EGPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.950 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.37 mW/g

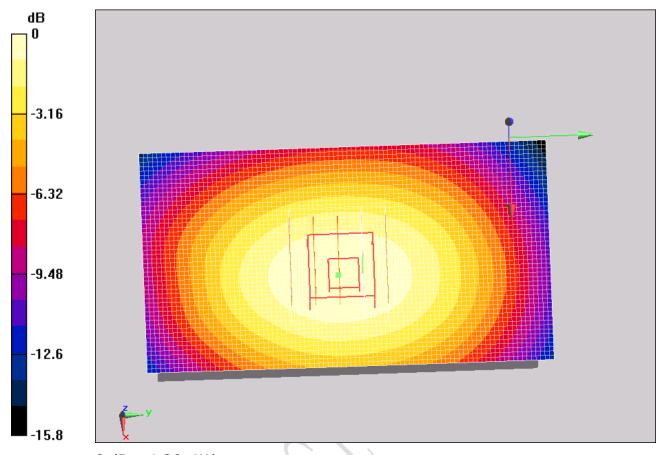
**GSM\_front\_high\_EGPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.36 mW/g



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#### FCC\_Body\_Face\_GPRS850\_4TS\_High\_HighBattery

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS850 4TS; Frequency: 848.8 MHz;Duty Cycle: 1:2 Medium parameters used (interpolated): f = 848.8 MHz;  $\sigma = 1.03$  mho/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_front\_High\_GPRS 2/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.26 mW/g

#### GSM\_front\_High\_GPRS 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.00433 dB

Peak SAR (extrapolated) = 1.59 W/kg

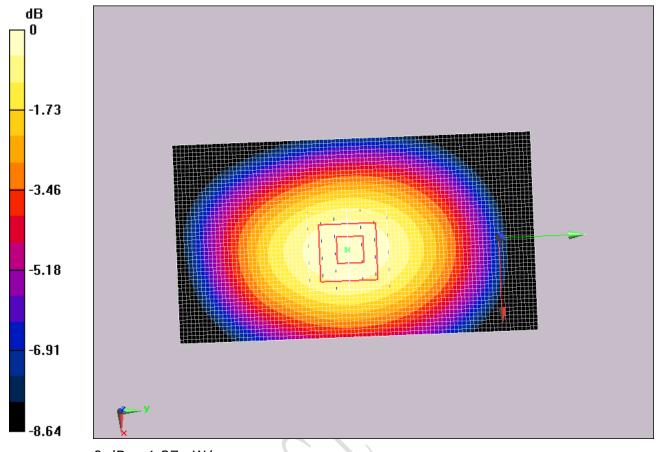
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.879 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.27 mW/g



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#### FCC\_Body\_Face\_PCS1900\_Low

# DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 1850.2 MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 51.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# 

Reference Value = 6.8 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.160 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.278 mW/g

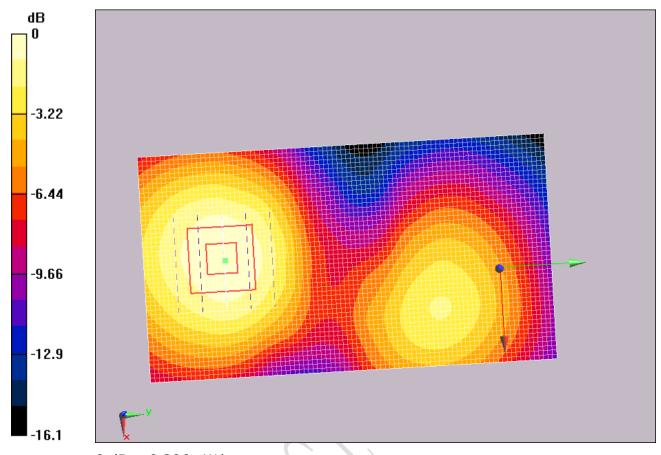
# **GSM\_face\_Low/Area Scan (51x91x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.286 mW/g



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#### FCC\_Body\_Face\_PCS1900\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 1880 MHz;  $\sigma = 1.5 \text{ mho/m}$ ;  $\varepsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **GSM\_Face\_Mid/Area Scan (51x91x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.363 mW/g

#### **GSM\_Face\_Mid/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 8.56 V/m; Power Drift = -0.116 dB

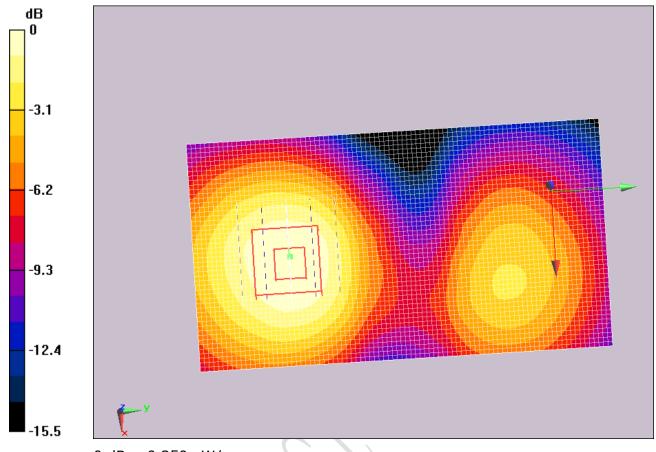
Peak SAR (extrapolated) = 0.511 W/kg

# SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.350 mW/g



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#### FCC\_Body\_Face\_PCS1900\_High

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3 Medium parameters used: f=1910 MHz;  $\sigma=1.53$  mho/m;  $\epsilon_r=51.1$ ;  $\rho=1000$ 

kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# **GSM\_face\_High/Zoom Scan 2 (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 7.26 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.436 W/kg

#### SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.296 mW/g

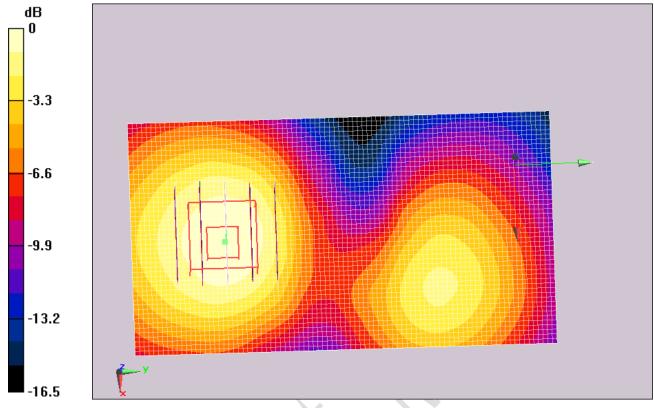
#### **GSM** face High/Area Scan (51x91x1): Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.307 mW/g



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#### FCC\_Body\_Back\_PCS1900\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 1880 MHz;  $\sigma = 1.5 \text{ mho/m}$ ;  $\varepsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# $GSM_Back_Mid/Area$ Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.199 mW/g

#### GSM\_Back\_Mid/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 9.25 V/m; Power Drift = -0.00873 dB

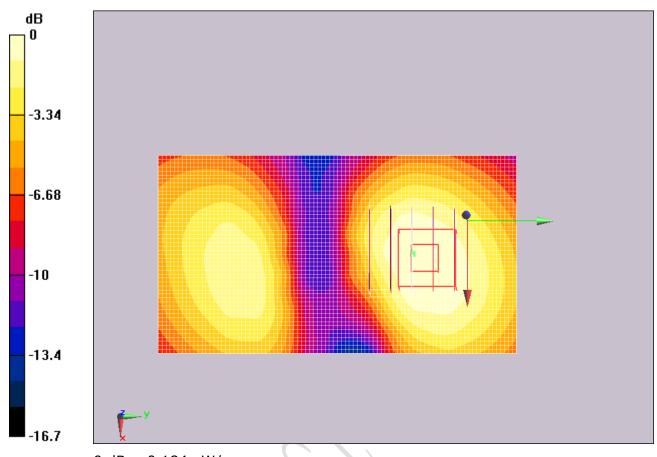
Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.184 mW/g



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#### FCC\_Body\_Face\_PCS1900\_Middle\_Earphone

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 1880 MHz;  $\sigma = 1.5 \text{ mho/m}$ ;  $\varepsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_mid\_earphone/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.433 mW/g

#### **GSM\_face\_mid\_earphone/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.97 V/m; Power Drift = -0.023 dB

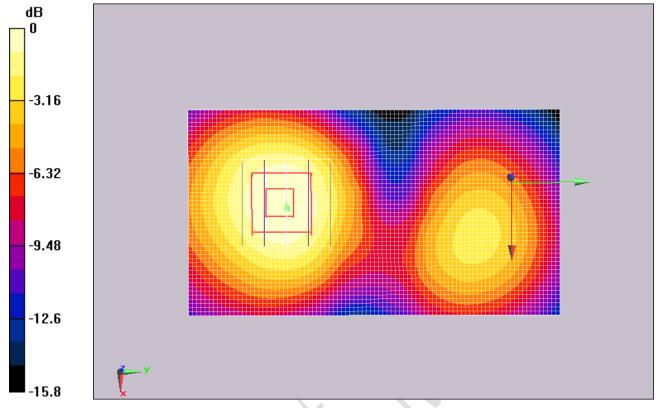
Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (measured) = 0.416 mW/g



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#### FCC\_Body\_Face\_PCS1900\_Middle\_Handfree

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 1880 MHz;  $\sigma = 1.5 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_mid\_Handfree/Area Scan (51x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.380 mW/g

#### GSM\_face\_mid\_Handfree/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.5 V/m; Power Drift = -0.049 dB

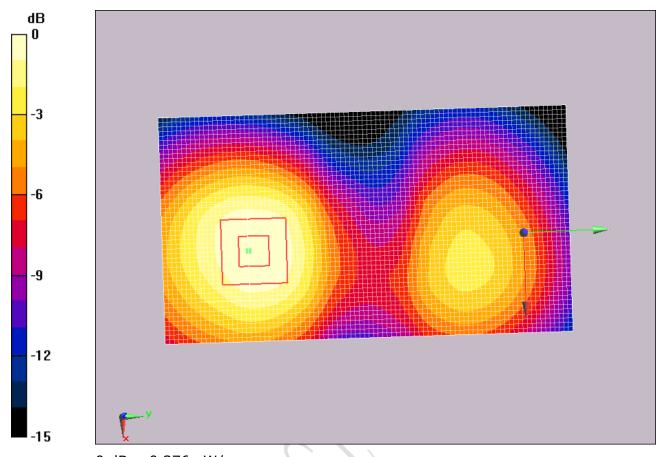
Peak SAR (extrapolated) = 0.544 W/kg

SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.376 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Body\_Face\_PCS1900\_Middle\_BT

## DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 1880 MHz;  $\sigma = 1.5 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_mid\_BT/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.573 W/kg

#### SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.395 mW/g

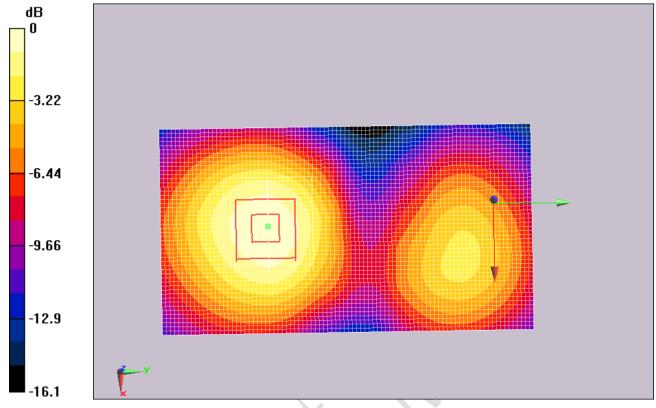
### **GSM\_face\_mid\_BT/Area Scan (51x91x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.416 mW/g



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#### FCC\_Body\_Face\_GPRS1900\_4TS\_Middle

## DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS1900 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz;  $\sigma = 1.5$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_mid\_GPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.7 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 0.900 W/kg

SAR(1 g) = 0.570 mW/g; SAR(10 g) = 0.350 mW/g

Maximum value of SAR (measured) = 0.617 mW/g

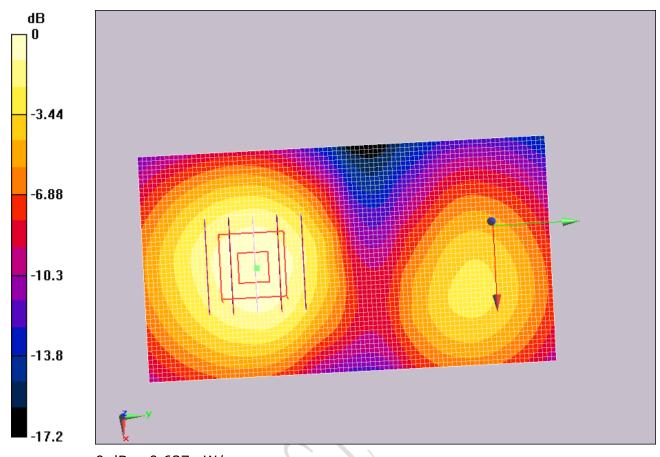
**GSM\_face\_mid\_GPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.637 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Body\_Face\_EGPRS1900\_4TS\_Middle

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS1900 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz;  $\sigma = 1.5$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_mid\_EGPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.327 mW/g

Maximum value of SAR (measured) = 0.570 mW/g

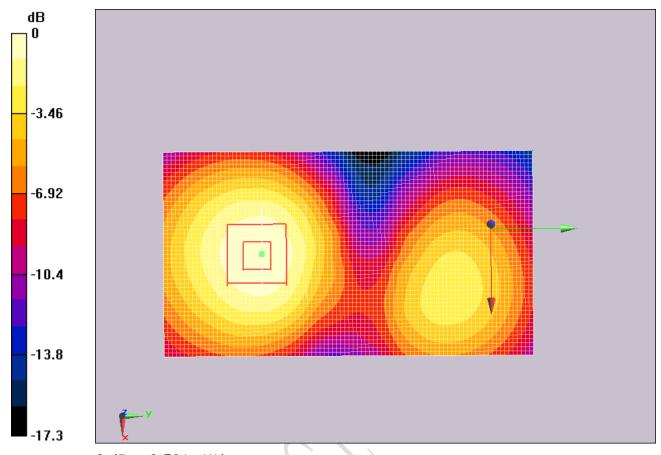
**GSM\_face\_mid\_EGPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.591 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Body\_Face\_GPRS1900\_4TS\_Middle\_HighBattery

#### DUT: Sonim XP3300-A-Y1; Type: Sonim XP3300-A-Y1; Serial: --

Communication System: (E)GPRS1900 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz;  $\sigma = 1.5$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

# GSM\_face\_mid\_GPRS/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.258 dB

Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.333 mW/g

Maximum value of SAR (measured) = 0.575 mW/g

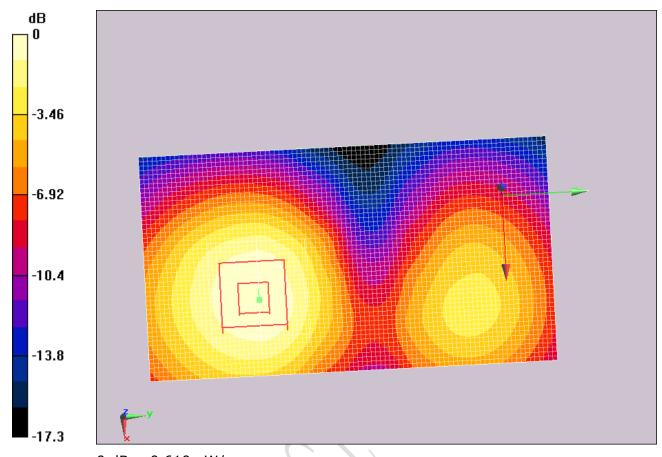
**GSM\_face\_mid\_GPRS/Area Scan (51x91x1):** Measurement grid: dx=15mm,

dy=15mm

Maximum value of SAR (interpolated) = 0.610 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





# **ANNEX C System Performance Check Graphical Results**

#### FCC\_Head\_Verification\_1900MHz\_24dBm

#### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:xxx

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz;  $\sigma = 1.41$  mho/m;  $\varepsilon_r = 40.1$ ;  $\rho = 1000$ 

kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

- Probe: EX3DV4 SN3753; ConvF(7.9, 7.9, 7.9); Calibrated: 2010-12-13
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2010-11-18
- Phantom: North SAM; Type: SAM; Serial: TP-1472
- Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

#### d=10mm, Pin=24.00 dBm 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.1 V/m; Power Drift = -0.226 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.74 mW/g; SAR(10 g) = 5.14 mW/g

Maximum value of SAR (measured) = 11.8 mW/g

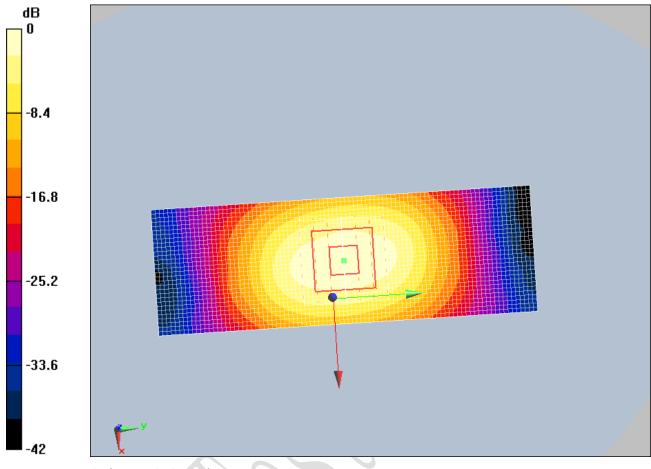
#### d=10mm, Pin=24.00 dBm 2/Area Scan (31x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.6 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003

Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2

#### FCC\_Head\_Verification\_835MHz\_24dBm

#### DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:xxx

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz;  $\sigma = 0.931$  mho/m;  $\varepsilon_r = 42.9$ ;  $\rho = 1000$ 

kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.06, 9.06, 9.06); Calibrated: 2010-12-13

• Sensor-Surface: 3.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: North SAM; Type: SAM; Serial: TP-1472

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

## d=15mm, Pin=24.00 dBm/Area Scan (31x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.73 mW/g

## d=15mm, Pin=24.00 dBm/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

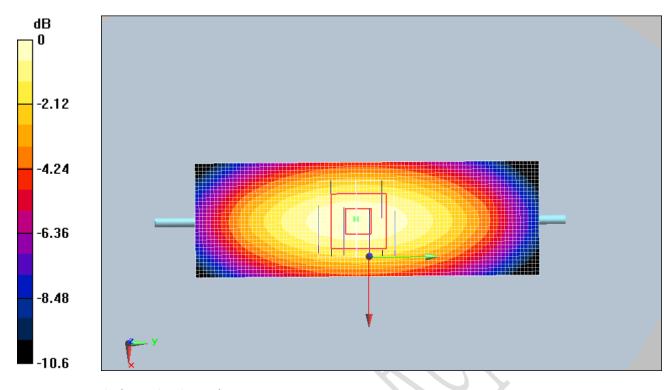
Reference Value = 55.2 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 3.73 W/kg

SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.6 mW/g

Maximum value of SAR (measured) = 2.78 mW/g





0 dB = 2.78 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003

Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2

#### FCC\_Body\_Verification\_1900MHz\_24dBm

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:xxx

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz;  $\sigma = 1.52$  mho/m;  $\varepsilon_r = 51.2$ ;  $\rho = 1000$ 

kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.17, 7.17, 7.17); Calibrated: 2010-12-13

• Sensor-Surface: 3.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

## d=10mm, Pin=24.00 dBm/Area Scan (31x91x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.9 mW/g

#### d=10mm, Pin=24.00 dBm/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.4 V/m; Power Drift = 0.069 dB

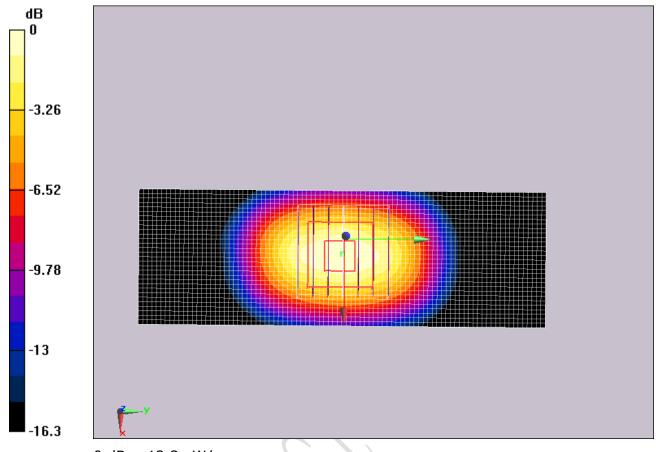
Peak SAR (extrapolated) = 18 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.4 mW/g

Maximum value of SAR (measured) = 12.3 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





#### FCC\_Body\_Verification\_835MHz\_24dBm

## DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:xxx

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz;  $\sigma = 1.01 \text{ mho/m}$ ;  $\varepsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC)

#### DASY4 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.07, 9.07, 9.07); Calibrated: 2010-12-13

• Sensor-Surface: 3.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2010-11-18

Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx

Measurement SW: DASY5, V5.0 Build 119; SEMCAD X Version 13.2 Build 87

d=15mm, Pin=24 dBm/Area Scan (31x81x1): Measurement grid: dx=15mm,
dy=15mm

Maximum value of SAR (interpolated) = 2.76 mW/g

d=15mm, Pin=24 dBm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.6 V/m; Power Drift = -0.018 dB

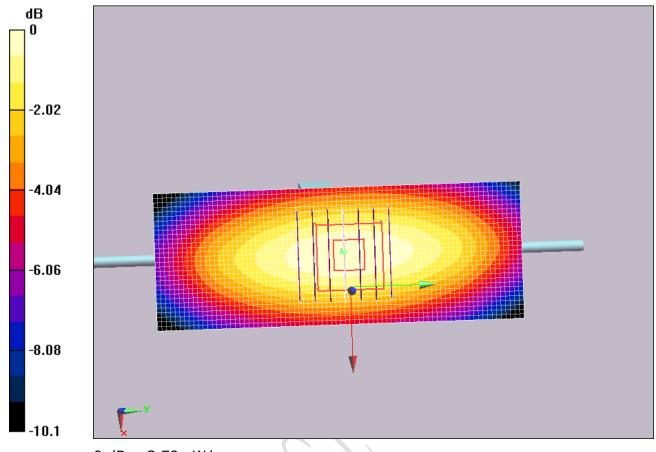
Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 2.47 mW/g; SAR(10 g) = 1.63 mW/g

Maximum value of SAR (measured) = 2.79 mW/g



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2





# **ANNEX D Probes Calibration Certificates**

The System Validation was conducted following the requirements of standard IEEE 1528: 2003 Clause 8.3.

The scanned copy of the calibration certificate of the probe used is as following.



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPO

REPORT NO.: I11GC7074-FCC-SAR-2

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage С Servizio svizzero di taratura Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client Auden	10 00 L	17, 14	Certificate No: EX3-3753_Dec10	
CALIBRATION	CERTIFICATI			
Object	EX3DV4 - SN:3	753	Attaches (September 1994)	77
Calibration procedure(s)		QA ÇALE14 v3 QA ÇA adur <del>y for doel motric</del> E-		
Calibration date:	December 13, 2	010		sn Så
The measurements and the unc	ertainties with confidence	probability are given on the follo	he physical units of measurements (SII), wing pages and are part of the certificate. sture (22 ± 3)°C and humidity < 70%,	
Calibration Equipment used (Mil	TE critical for calibration)			
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration	. 1
Power meter E4419B	GB41293874	1-Apr-10 (No. 217-01136)	Apr-11	
Power sensor E4412A	MY41495277	1-Apr-10 (No. 217-01136)	Apr-11	
Power sensor E4412A	MY41498067	1-Apr-10 (No. 217-01136)	Apr-11	
Reference 3 dB Attenuator	SN: S5054 (3c)	30-Mar-10 (No. 217-01159)	- 4	
Reference 20 dB Attenuator	SN: S5086 (20b)	30-Mar-10 (No. 217-01161)	Mar-11	
Reference 30 dB Attenuator	SN: S5129 (30b)	30-Mer-10 (No. 217-01160)	Mar-11	
Reference Probe ES3DV2	SN: 3013	30-Dec-09 (No. ES3-3013_	Dec09) Dec-10	
DAE4	SN: 660	20-Apr-10 (No. DAE4-880_/		
Secondary Standards	l ID N	Charl Bata de bassa		
RF generator HP 8848C	US3642U01700	Check Date (in house)	Scheduled Check	
Network Analyzer HP 8753E	U\$37390585	4-Aug-99 (in house check C 18-Oct-01 (in house check C		-
	Name	Function	Signature	.
Calibrated by:	Kene Pokuvio	Teptrice Mai	" THE	
Approved by:	Note Kuster	and the country blood	·	MARKET SE
This calibration certificate shall r	of be reproduced except	in full without written approval of	Issued: December 14, the laboratory.	2010

Certificate No: EX3-3753\_Dec10

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FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003

Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2

## Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kallbrierdienst Service suisse d'étalonnage Ċ Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

tissue simulating liquid NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

CF crest factor (1/duty\_cycle) of the RF signal A, B, C modulation dependent linearization parameters

Polarization  $\phi$ rotation around probe axis

Polarization 9 3 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

## Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement
- Techniques', December 2003
  b) IEC 62209-1, 'Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 8 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the Ez-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- Ax,y,z; Bx,y,z; Cx,y,z, VRx,y,z; A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Serisor Offset. The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required,

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Certificate No: EX3-3753\_Dec10



# Probe EX3DV4

SN:3753

Manufactured: Calibrated: March 16, 2010 December 13, 2010

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3753\_Dec10

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FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003

Equipment: Sonim XP3300-A-X1 REPORT NO.: I11GC7074-FCC-SAR-2

EX3DV4 SN:3753

December 13, 2010

# DASY/EASY - Parameters of Probe: EX3DV4 SN:3753

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.34	0.49	0.52	± 10.1%
DCP (mV) <sup>8</sup>	99.3	98.8	103.0	

#### Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dBuV	С	VR mV	Unc <sup>t</sup> (k=2)
10000	cw	0.00	х	0.00	0.00	1.00	120.2	±2.9%
			Y	0.00	0.00	1.00	111.7	
			z	0.00	0.00	1.00	118.9	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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<sup>&</sup>lt;sup>a</sup> The uncertainties of NormX,Y,Z do not affect the €-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter; uncertainty not required.

Uncertainty is determined using the maximum deviation from linear response applying recatangular distribution and is expressed for the square of the field value.



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPO

REPORT NO.: I11GC7074-FCC-SAR-2

EX3DV4 SN:3753 December 13, 2010

## DASY/EASY - Parameters of Probe: EX3DV4 SN:3753

#### Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz]	Validity [MHz]	Permittivity	Conductivity	ConvF X	ConvF Y	ConvF Z	Alpha	Depth Unc (k=2)
750	± 50 / ± 100	$41.9 \pm 5\%$	$0.89\pm5\%$	9.52	9.52	9.52	0.52	0.72 ± 11.0%
835	±50/±100	41.5 ± 5%	$0.90 \pm 5\%$	9.06	9.06	9.06	0.58	0.70 ± 11.0%
1750	± 50 / ± 100	40.1 ± 5%	$1.37 \pm 5\%$	8.25	8.25	8.25	0.67	0.64 ± 11.0%
1900	± 50 / ± 100	40.0 ± 5%	$1.40 \pm 5\%$	7.90	7.90	7.90	0.54	0.71 ± 11.0%
2000	± 50 / ± 100	$40.0\pm5\%$	$1.40 \pm 5\%$	7.82	7.82	7.82	0.62	0.65 ± 11.0%
2450	± 50 / ± 100	39.2 ± 5%	$1.80\pm5\%$	7.11	7.11	7.11	0.38	0.83 ± 11.0%
5200	± 50 / ± 100	38.0 ± 5%	$4.66\pm5\%$	4.96	4.96	4.96	0.32	1.90 ± 13.1%
5300	± 50 / ± 100	$35.9 \pm 5\%$	$4.76 \pm 5\%$	4.69	4.69	4.69	0.40	1.90 ± 13.1%
5500	± 50 / ± 100	$35.6 \pm 5\%$	$4.96 \pm 5\%$	4.43	4.43	4.43	0.45	1.90 ± 13.1%
5600	±50/±100	$35.5\pm5\%$	5.07 ± 5%	4.44	4.44	4.44	0.45	1.90 ± 13.1%
5800	±50/±100	$35.3\pm5\%$	5.27 ± 5%	4.32	4.32	4.32	0.45	1.90 ± 13.1%

The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the Coroff uncertainty at calibration frequency. and the uncertainty for the indicated frequency band.

Certificate No: EX3-3753\_Dec10



FCC Part 2.1093 (2010-10-01), FCC OET 65C (01-01), IEEE Std 1528™-2003 Equipment: Sonim XP3300-A-X1 REPO

REPORT NO.: I11GC7074-FCC-SAR-2

EX3DV4 SN:3753 December 13, 2010

## DASY/EASY - Parameters of Probe: EX3DV4 SN:3753

#### Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz]	Validity [MHz] <sup>c</sup>	Permittivity	Conductivity	ConvF X C	ConvFY Co	onvF Z	Alpha	Depth Unc (k=2)
750	± 50 / ± 100	55.5 ± 5%	$0.96 \pm 5\%$	9.25	9.25	9.25	0.54	0.74 ± 11.0%
835	±50/±100	55.2 ± 5%	$0.97\pm5\%$	9.07	9.07	9.07	0.55	0.73 ±11.0%
1750	±50/±100	$53.4 \pm 5\%$	$1.49\pm5\%$	7.48	7.48	7.48	0.32	1.19 ± 11.0%
1900	± 50 / ± 100	$53.3 \pm 5\%$	$1.52\pm5\%$	7.17	7.17	7.17	0.55	0.96 ± 11.0%
2000	±50/±100	$53.3 \pm 5\%$	$1.52 \pm 5\%$	7.22	7.22	7.22	0.96	0.52 ± 11.0%
2300	± 50 / ± 100	$52.8 \pm 5\%$	$1.85 \pm 5\%$	7.11	7.11	7.11	0.54	0.75 ± 11.0%
2450	± 50 / ± 100	$52.7 \pm 5\%$	$1.95\pm5\%$	6.91	6.91	6.91	0.54	0.88 ±11.0%
2600	±50/±100	52.5 ± 5%	$2.16\pm5\%$	6.86	6.86	6.86	0.97	0.34 ± 11.0%
3500	±50/±100	51.3 ± 5%	$3.31 \pm 5\%$	6.19	6.19	6.19	0.35	1.20 ± 13.1%
5200	± 50 / ± 100	$49.0\pm5\%$	$5.30\pm5\%$	4.21	4.21	4.21	0.55	1.95 ± 13.1%
5300	± 50 / ± 100	$48.9 \pm 5\%$	$5.42 \pm 5\%$	4.02	4.02	4.02	0.55	1.95 ± 13.1%
5500	± 50 / ± 100	48.6 ± 5%	$5.65\pm5\%$	3.69	3.69	3.69	0.55	1.95 ± 13.1%
5600	± 50 / ± 100	48.5 ± 5%	$5.77 \pm 5\%$	3.41	3.41	3.41	0.60	1.95 ± 13.1%
5800	± 50 / ± 100	48.2 ± 5%	$6.00\pm5\%$	3.90	3.90	3.90	0.60	1.95 ± 13.1%

The validity of ± 100 MHz only applies for DASY vs.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency. and the uncertainty for the indicated frequency band.

Certificate No: EX3-3753\_Dec10

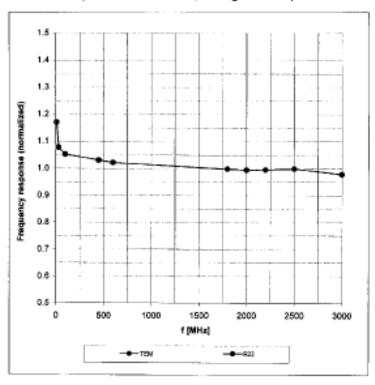


EX3DV4 SN:3753

December 13, 2010

# Frequency Response of E-Field

(TEM-Cell:ff110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3753\_Dec10

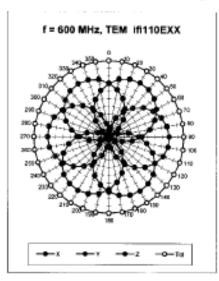
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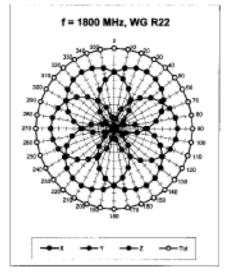


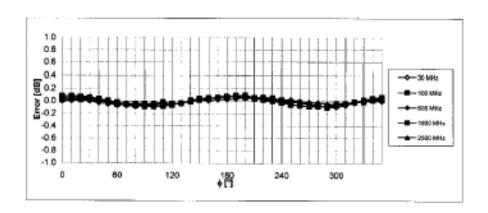
EX3DV4 SN:3753

December 13, 2010

# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$







Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3753\_Dec10

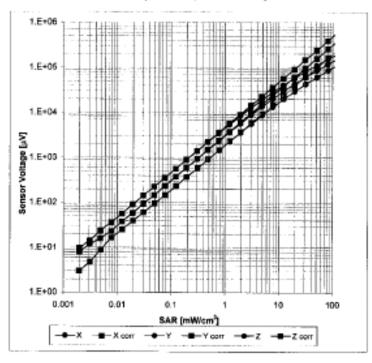
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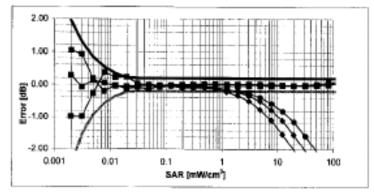


EX3DV4 SN:3753 December 13, 2010

# Dynamic Range f(SAR<sub>head</sub>)

(TEM cell, f = 900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

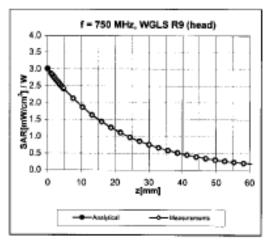
Certificate No: EX3-3753\_Dec10

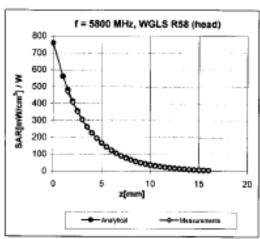
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EX3DV4 SN:3753 December 13, 2010

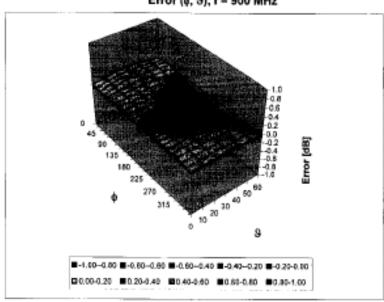
## Conversion Factor Assessment





# Deviation from Isotropy in HSL

Error (¢, 3), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: EX3-3753\_Dec10

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REPORT NO.: I11GC7074-FCC-SAR-2

EX3DV4 SN:3753

December 13, 2010

## Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (*)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm

Certificate No: EX3-3753\_Dec10

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# **ANNEX E Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

