

1. SAR System Verification

Validation Kit	Frequency (MHz)	Target SAR (1g) (Pin=250mW)	Measured SAR (1g)	Measured Date
D1750V2 S/N: 1008	1750 MHz (Head)	9.59 mW/g	9.52 mW/g	2009/10/21

Date/Time: 2009/10/21 19:37:10

DUT: Dipole 1750 MHz;

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: Head 1800 MHz Medium parameters used: $f = 1750$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

- Probe: EX3DV3 - SN3526; ConvF(9.75, 9.75, 9.75); Calibrated: 2009/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2009/1/20
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Pin=250mW/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.8 mW/g

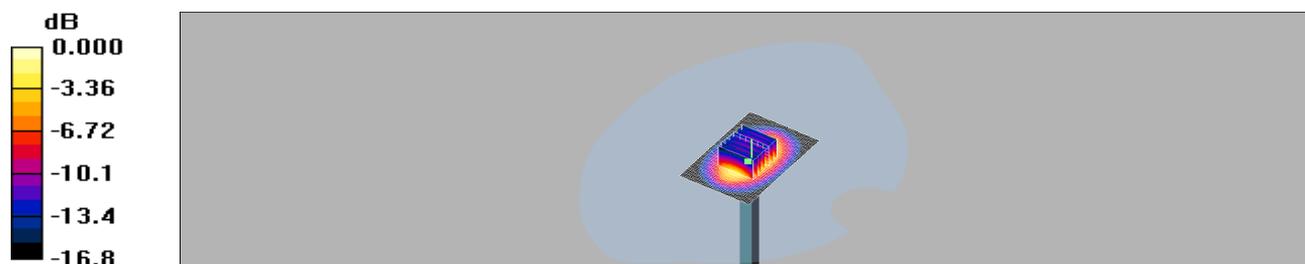
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.3 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.52 mW/g; SAR(10 g) = 5.07 mW/g

Maximum value of SAR (measured) = 10.7 mW/g



0 dB = 10.7mW/g

2. Summary of Results

Right Head (Cheek Position)_ IMEI: 356221030019030						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1513	1752.6	23.56dbm	1.24	22.0	21.7
Right Head (Cheek Position)_ IMEI: 356221030018990						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1513	1752.6	23.57dbm	1.27	22.0	21.7
Right Head (Cheek Position)_ IMEI: 356221030018404						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1513	1752.6	23.57dbm	1.26	22.0	21.7
Right Head (Cheek Position)_ IMEI: 356221030022968						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1513	1752.6	23.61dbm	1.39	22.0	21.7
Right Head (Cheek Position)_ IMEI: 356221030022943						
Frequency	Channel	MHz	Conducted Output Power (Average)	Measured(W/kg) 1g	Amb. Temp[°C]	Liquid Temp[°C]
WCDMA B4	1513	1752.6	23.59dbm	1.32	22.0	21.7

3. Measurements

Date/Time: 2009/10/21 22:31:29

RE Cheek_CH1513

DUT: SAPP 310; IMEI: 356221030019030

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1753$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.75, 9.75, 9.75); Calibrated: 2009/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2009/1/20
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

RE_Cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.32 mW/g

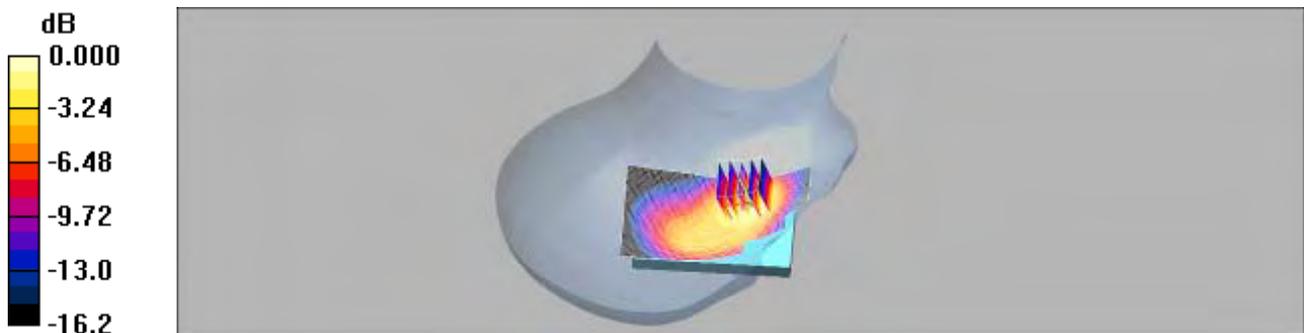
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.08 V/m; Power Drift = 0.141 dB

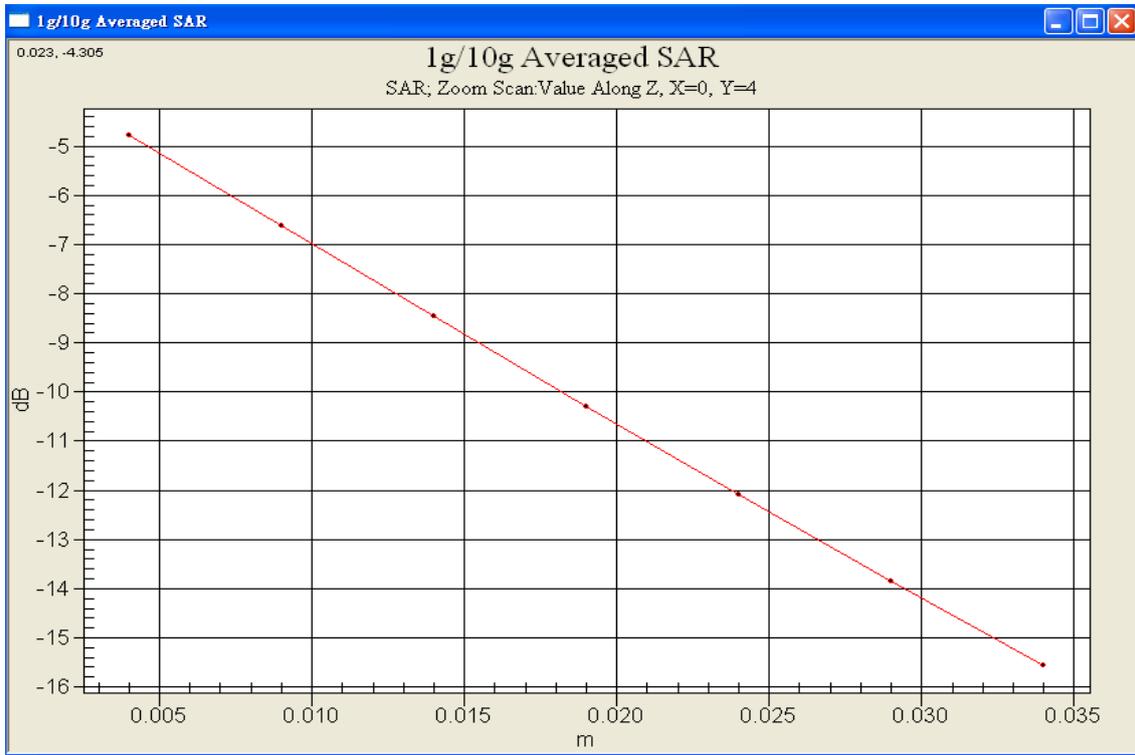
Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.725 mW/g

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



0 dB = 1.36mW/g



RE Cheek_CH1513

DUT: SAPP 310; IMEI: 356221030018990

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1753$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.75, 9.75, 9.75); Calibrated: 2009/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2009/1/20
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

RE_Cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.34 mW/g

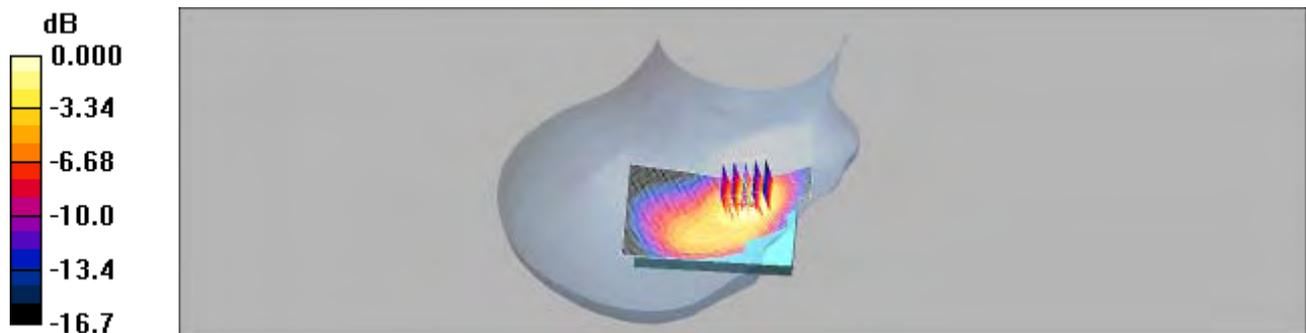
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.45 V/m; Power Drift = 0.119 dB

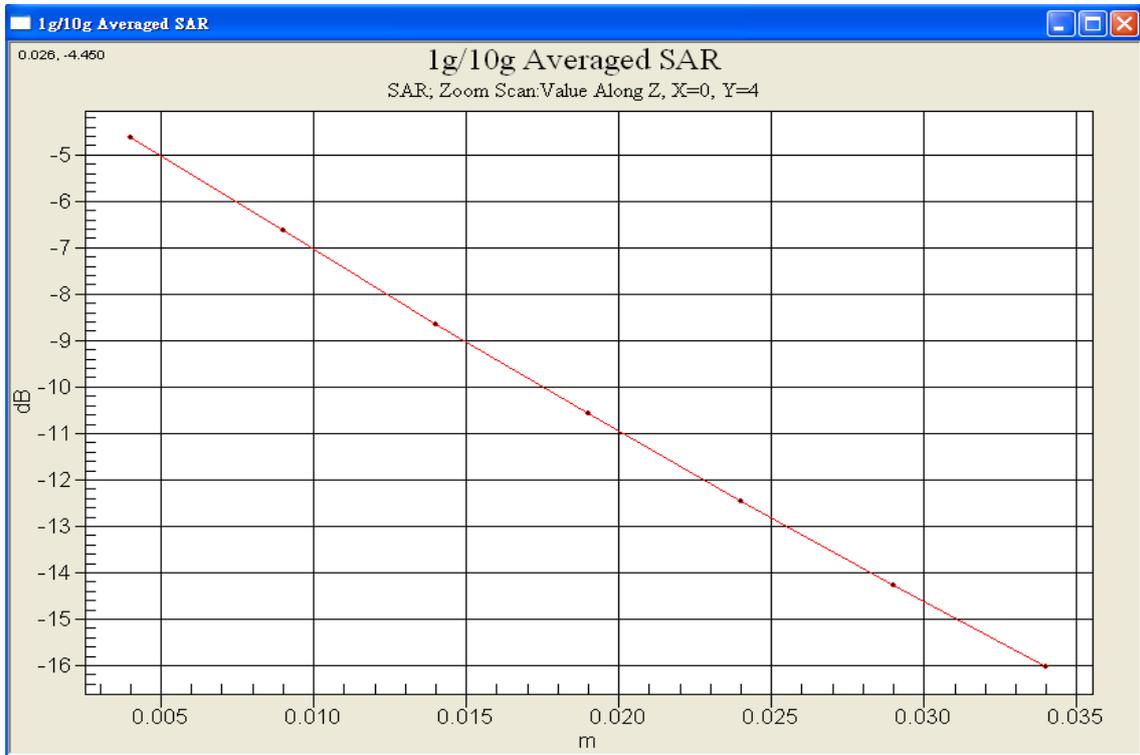
Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.737 mW/g

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



0 dB = 1.39mW/g



RE Cheek_CH1513

DUT: SAPP 310; IMEI: 356221030018404

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1753$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.75, 9.75, 9.75); Calibrated: 2009/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2009/1/20
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

RE_Cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.35 mW/g

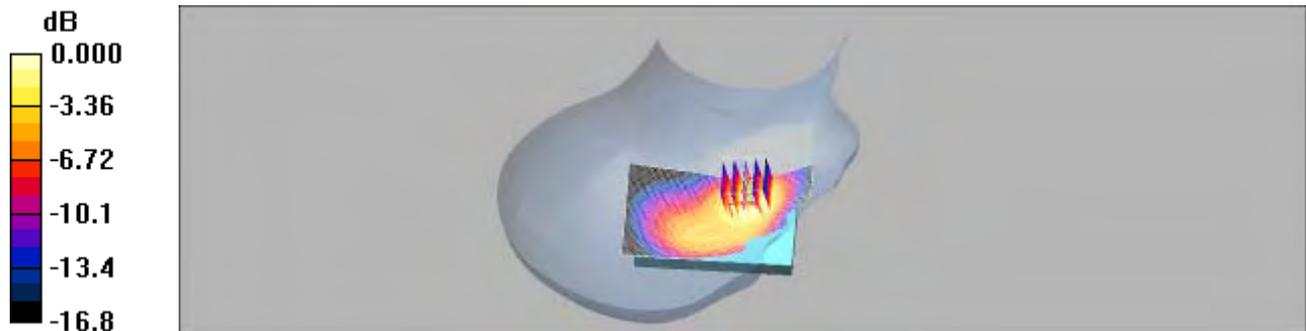
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.97 V/m; Power Drift = 0.147 dB

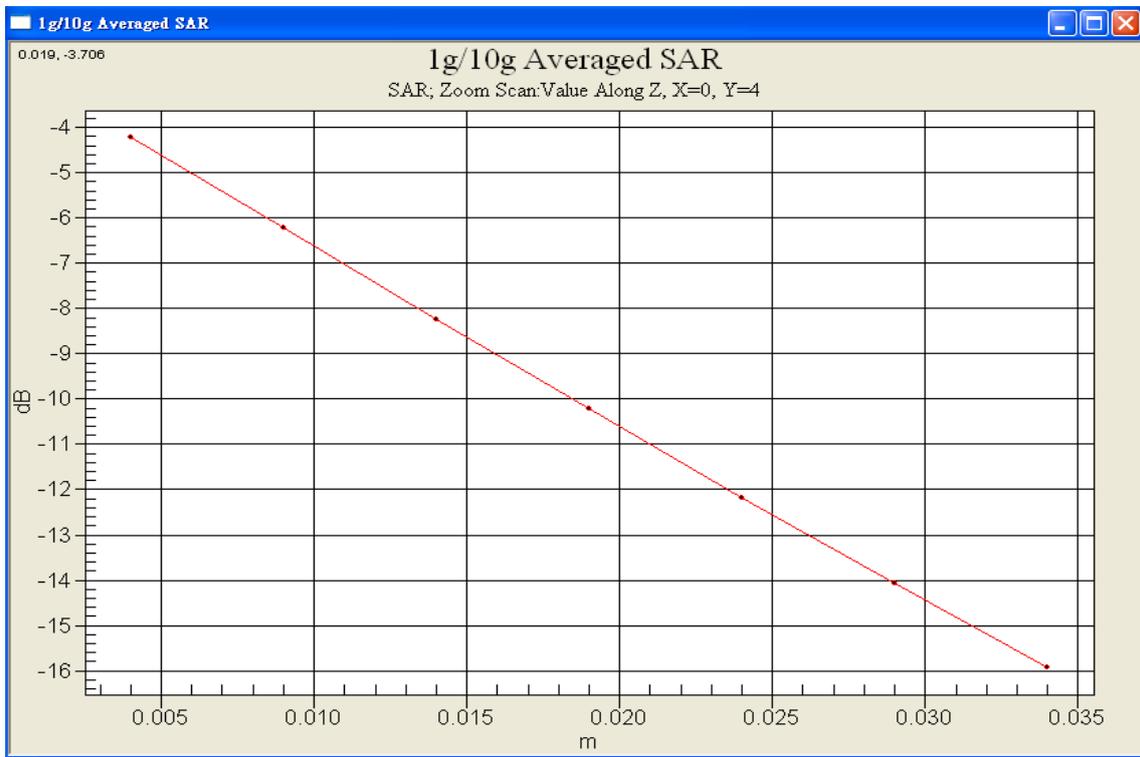
Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.729 mW/g

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



0 dB = 1.37mW/g



RE Cheek_CH1513

DUT: SAPP 310; IMEI: 356221030022968

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1753$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.75, 9.75, 9.75); Calibrated: 2009/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2009/1/20
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

RE_Cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.50 mW/g

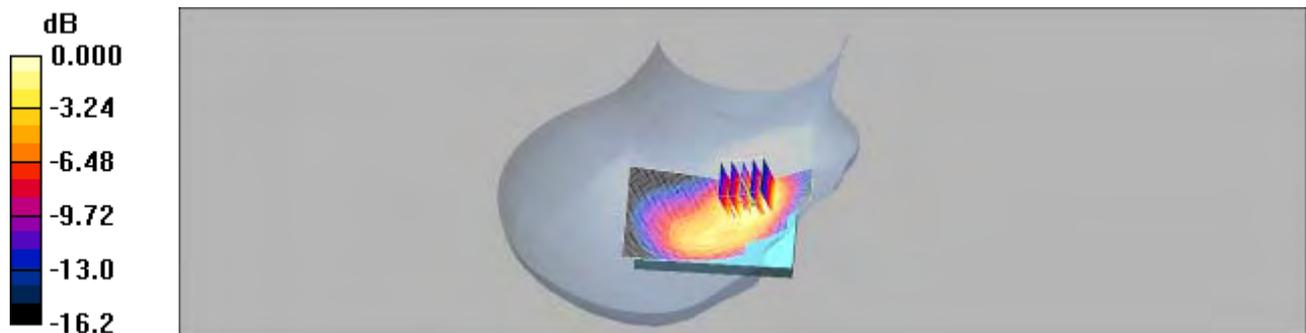
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.26 V/m; Power Drift = 0.154 dB

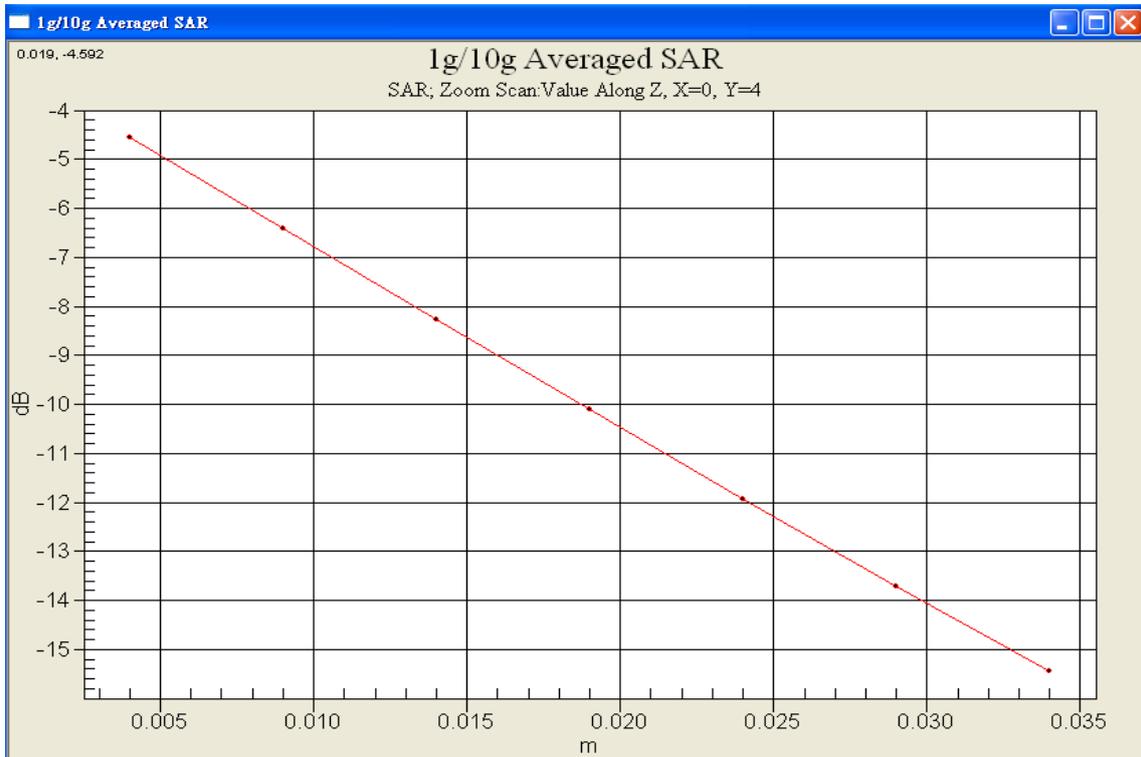
Peak SAR (extrapolated) = 2.29 W/kg

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.818 mW/g

Maximum value of SAR (measured) = 1.54 mW/g



0 dB = 1.54mW/g



RE Cheek_CH1513

DUT: SAPP 310; IMEI: 356221030022943

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: Head 1800 MHz Medium parameters used: $f = 1753$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV3 - SN3526; ConvF(9.75, 9.75, 9.75); Calibrated: 2009/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2009/1/20
- Phantom: SAM2; Type: SAM 4.0; Serial: TP:1270
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

RE_Cheek/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.37 mW/g

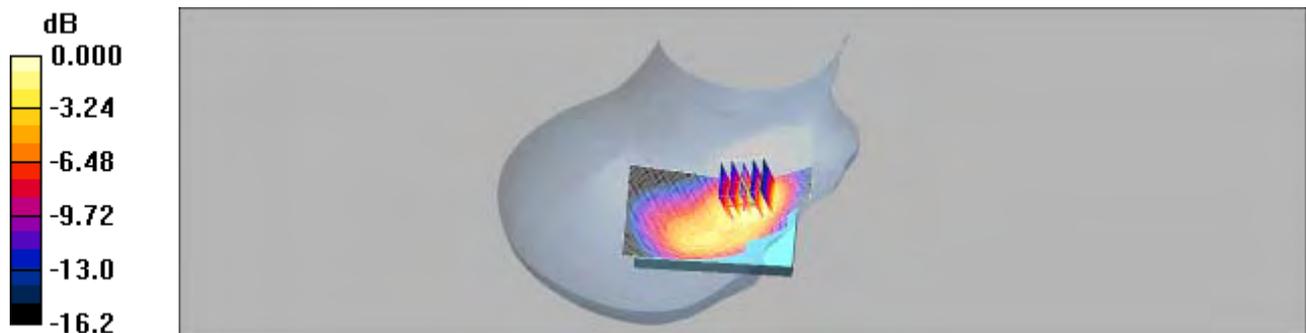
RE_Cheek/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.89 V/m; Power Drift = 0.191 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.764 mW/g

Maximum value of SAR (measured) = 1.44 mW/g



0 dB = 1.44mW/g

