



ESTECH Co., Ltd.
3rd Fl., Chungdam Bldg.,
119-1 Chungdam-dong,
Kangnamgu, Seoul



**Electromagnetic
Interference
Test Report**

Date/Time: 11/23/04 11:15:24

Test Laboratory: ESTECH

VALIDATION 835MHz 1123

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

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

Medium: Head 900MHz Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.874 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 32%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.71 mW/g

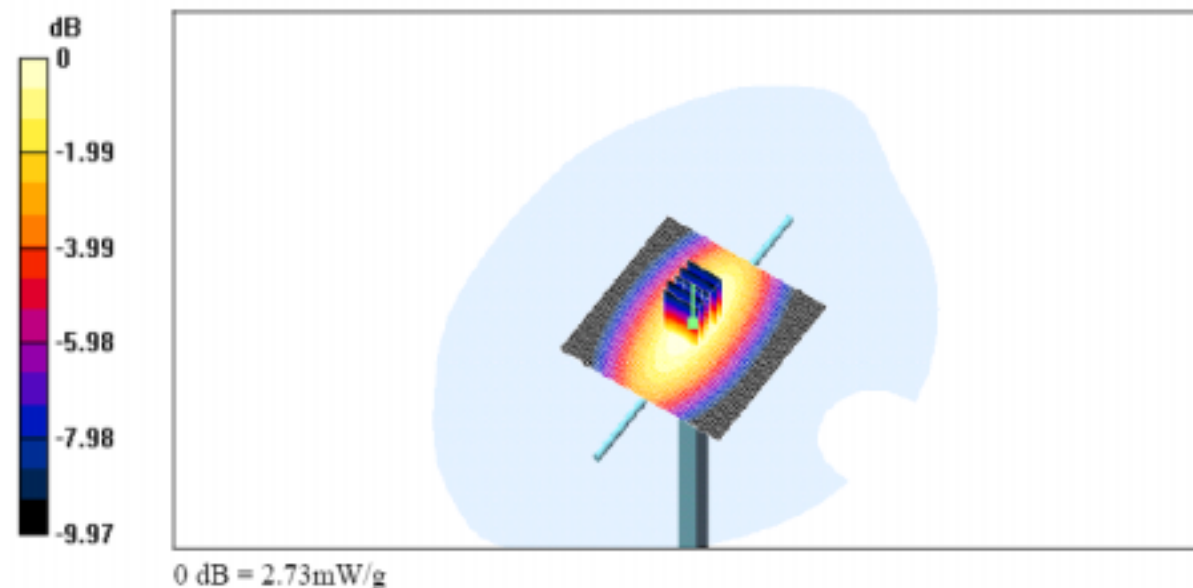
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.6 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 2.52 mW/g

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





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/24/04 11:09:53

Test Laboratory: ESTECH

VALIDATION 835MHz 1124

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

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

Medium: Head 900MHz Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.873 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 32%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.58 mW/g

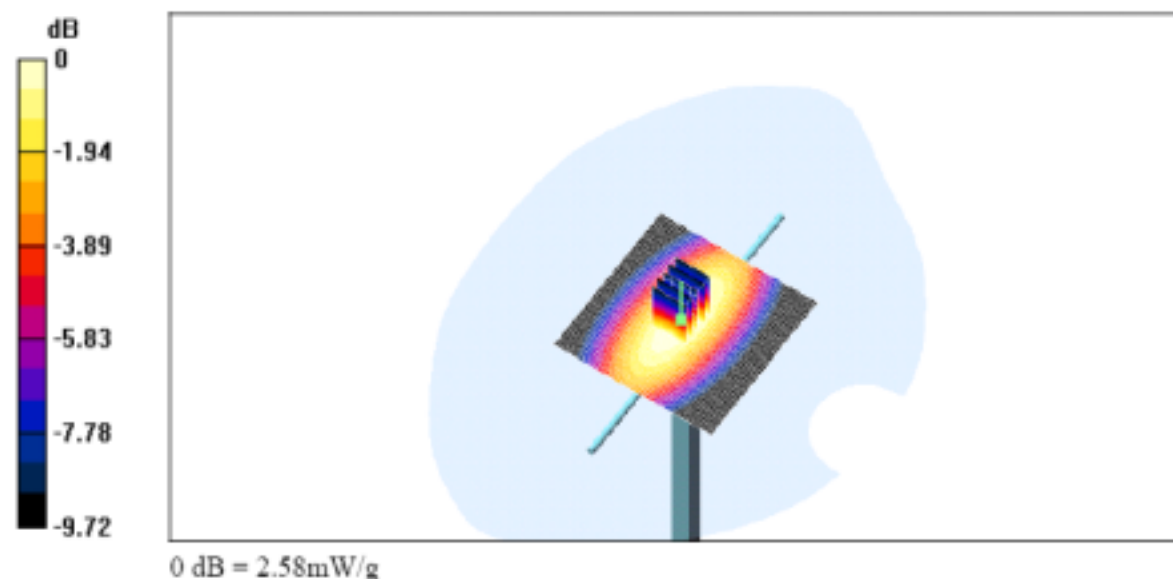
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.39 mW/g

Maximum value of SAR (measured) = 2.58 mW/g





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Electromagnetic Interference Test Report

Date/Time: 11/24/04 18:09:11

Test Laboratory: ESTECH

Validation-1900MHz-1124

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

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

Medium: HSL1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000$

kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(5.2, 5.2, 5.2); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM MIC 1800Mhz; Type: SAM MIC 1800MHz; Serial: TP-1263
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 12 mW/g

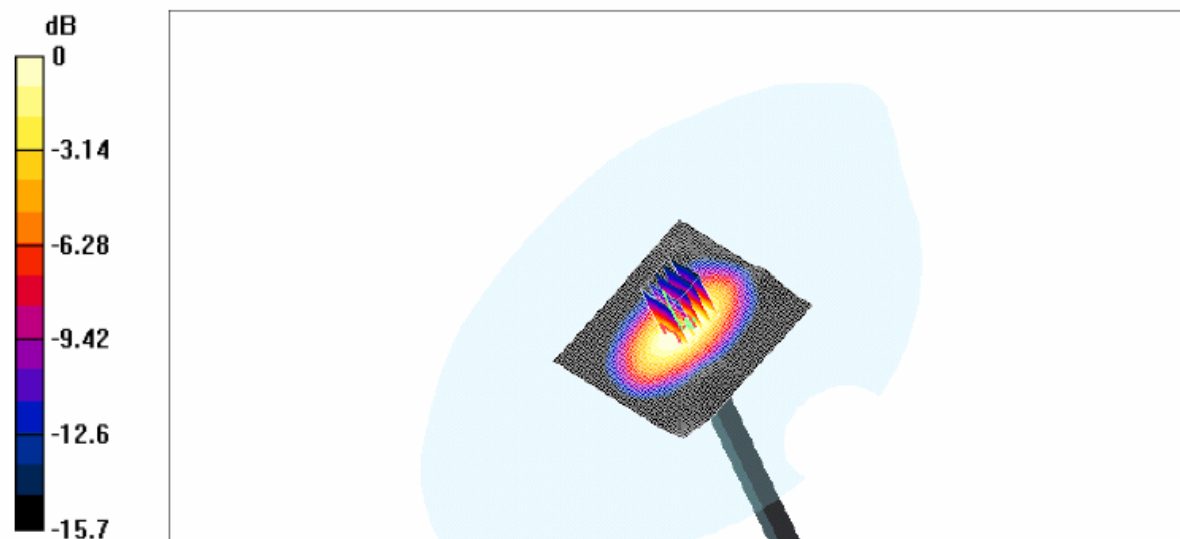
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 91.7 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 10 mW/g

Maximum value of SAR (measured) = 11.4 mW/g



0 dB = 11.4mW/g

APPENDIX B : SAR Test Setup Photographs

Left Hand –Touch Position



Right Hand –Touch Position



Left Hand -Tilt Position



Right Hand -Tilt Position



Flat – Body Side Configuration



Flat – Body Front Configuration



APPENDIX C : SAR Test Data



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**Electromagnetic
Interference
Test Report**

Date/Time: 11/23/04 22:40:00

Test Laboratory: ESTECH

LG-MX4170 - CH 991 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 824.04 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 824.04 \text{ MHz}$; $\sigma = 0.865$
 mho/m ; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.663 mW/g

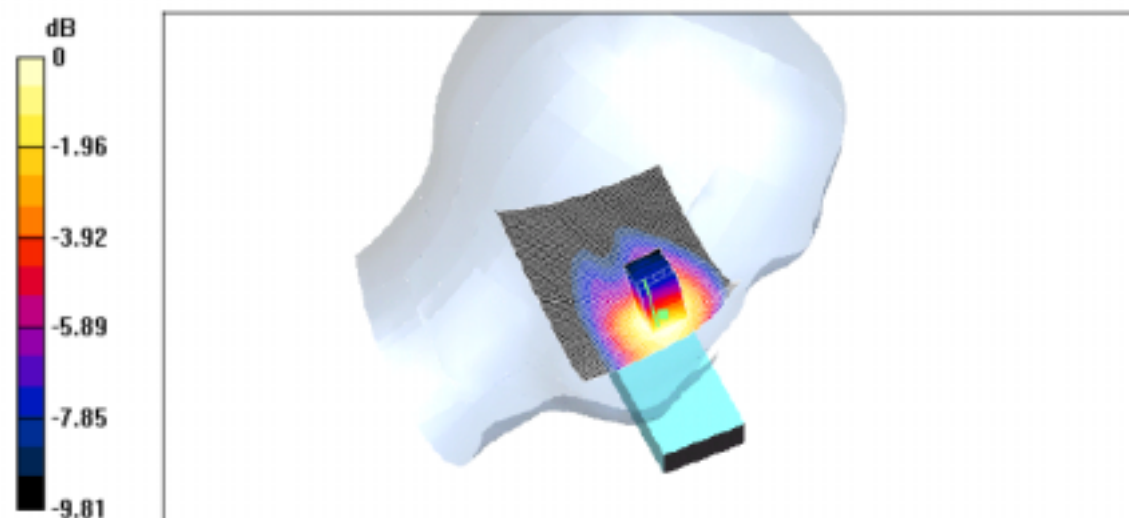
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.65 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.883 W/kg

SAR(1 g) = 0.555 mW/g

Maximum value of SAR (measured) = 0.596 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/23/04 21:09:05

Test Laboratory: ESTECH

LG-MX4170 - CH 383 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

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

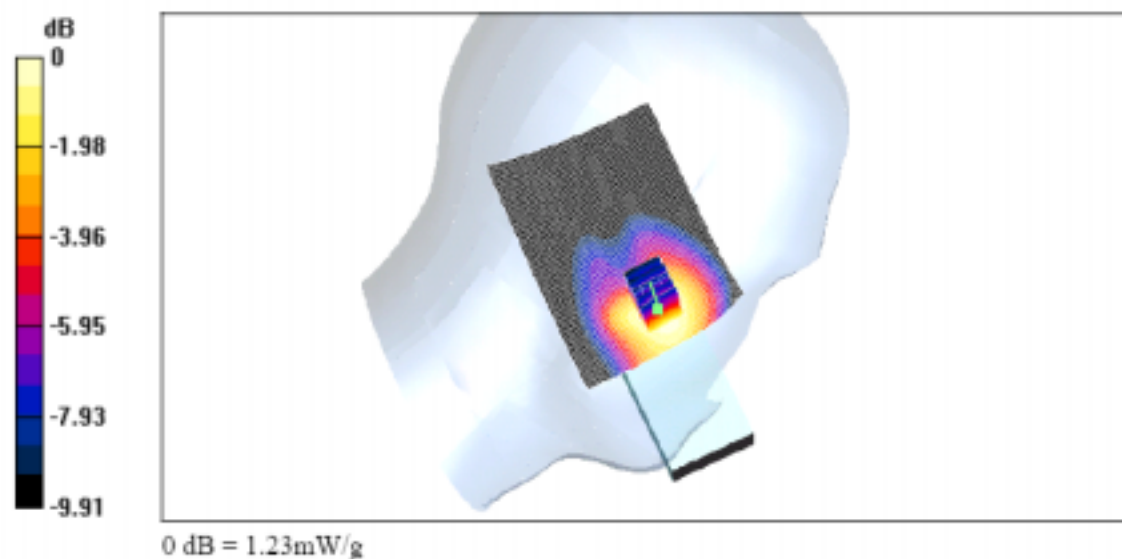
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.17 mW/g

Maximum value of SAR (measured) = 1.23 mW/g





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**Electromagnetic
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Date/Time: 11/24/04 13:40:01

Test Laboratory: ESTECH

LG-MX4170 - CH 799 LEFT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 848.97 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 848.97$ MHz; $\sigma = 0.885$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 32%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.823 mW/g

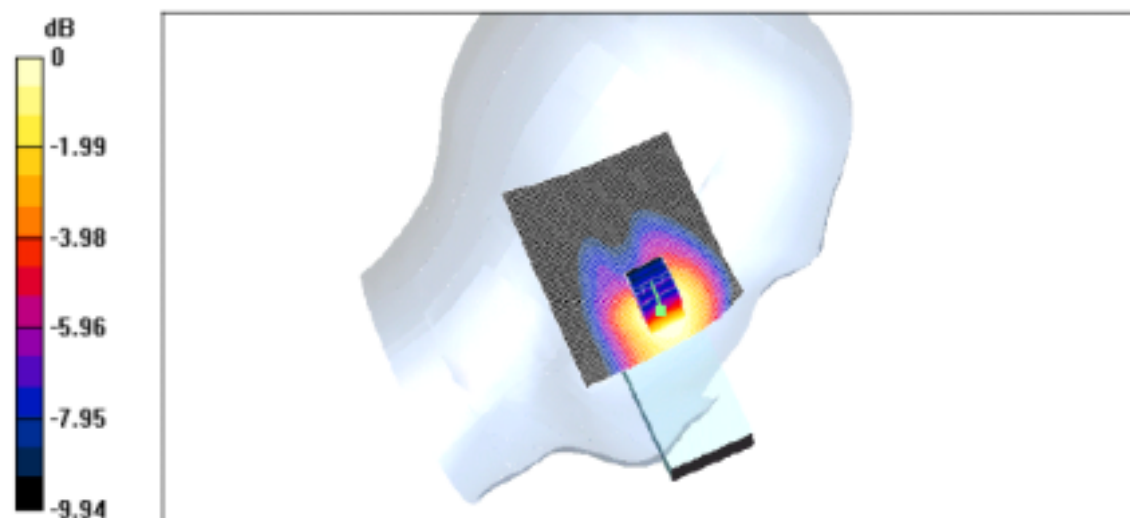
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.99 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.692 mW/g

Maximum value of SAR (measured) = 0.744 mW/g



0 dB = 0.744mW/g



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**Electromagnetic
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Date/Time: 11/23/04 22:58:49

Test Laboratory: ESTECH

LG-MX4170 - CH 991 RIGHT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 824.04 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 824.04$ MHz; $\sigma = 0.865$ mho/m; $\epsilon_r = 42.7$; $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.557 mW/g

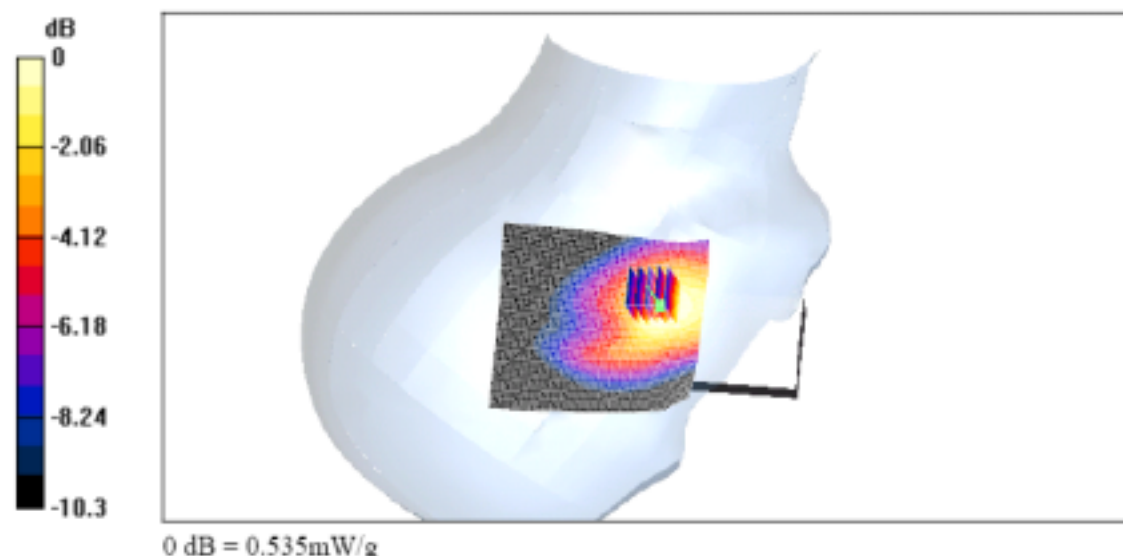
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.36 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.494 mW/g

Maximum value of SAR (measured) = 0.535 mW/g





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**Electromagnetic
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Test Report**

Date/Time: 11/23/04 22:20:26

Test Laboratory: ESTECH

LG-MX4170 - CH 383 RIGHT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.874$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 22 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation!

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

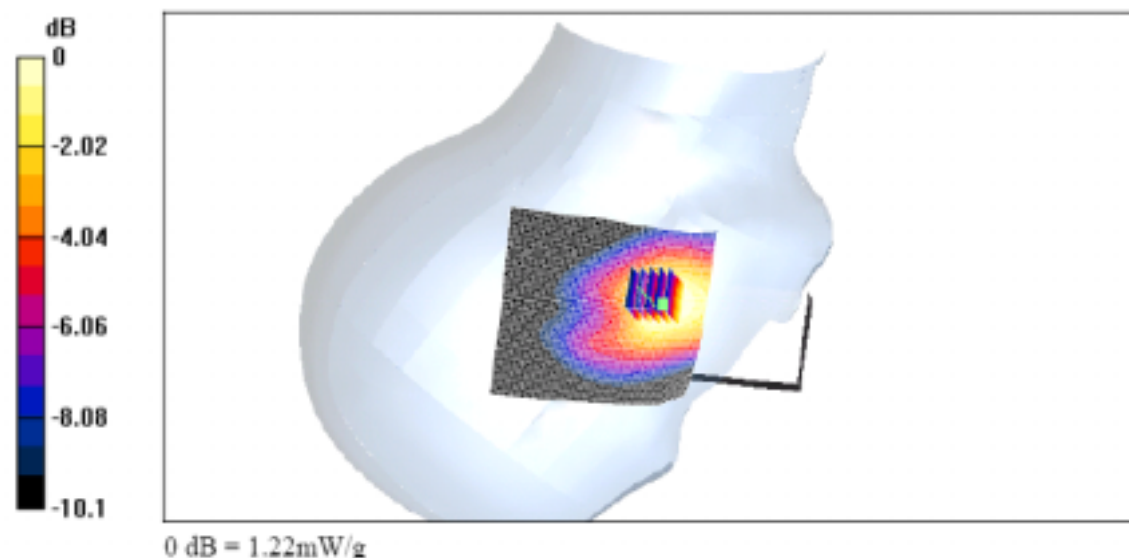
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.14 mW/g

Maximum value of SAR (measured) = 1.22 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/24/04 14:01:46

Test Laboratory: ESTECH

LG-MX4170 - CH 799 RIGHT TOUCH POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 848.97 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 848.97$ MHz; $\sigma = 0.885$
mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.750 mW/g

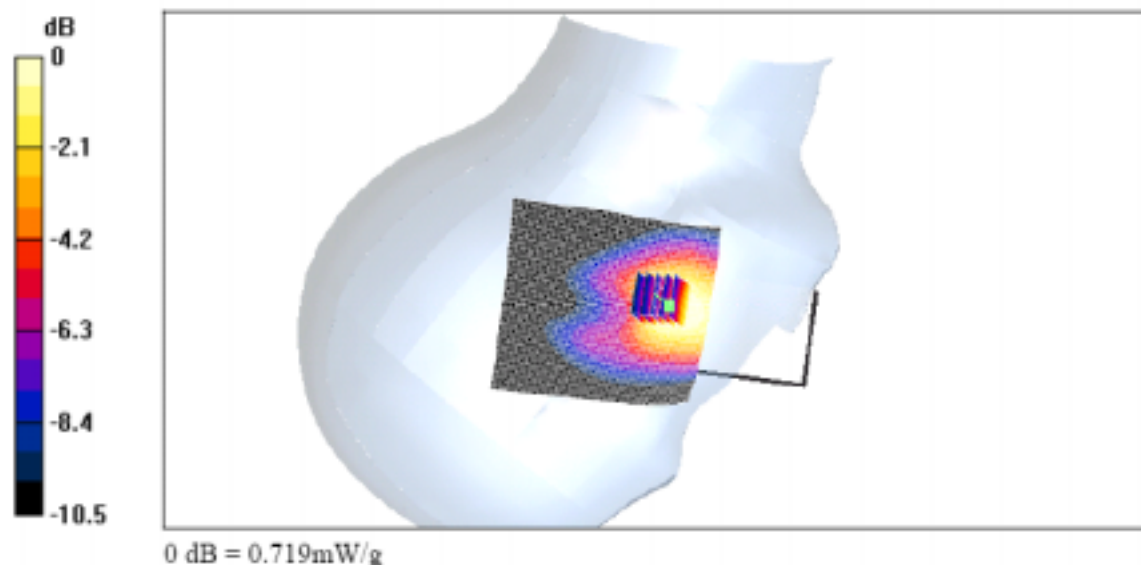
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.58 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.665 mW/g

Maximum value of SAR (measured) = 0.719 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/24/04 14:28:00

Test Laboratory: ESTECH

LG-MX4170 - CH 383 LEFT TILT POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.873$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 31%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.424 mW/g

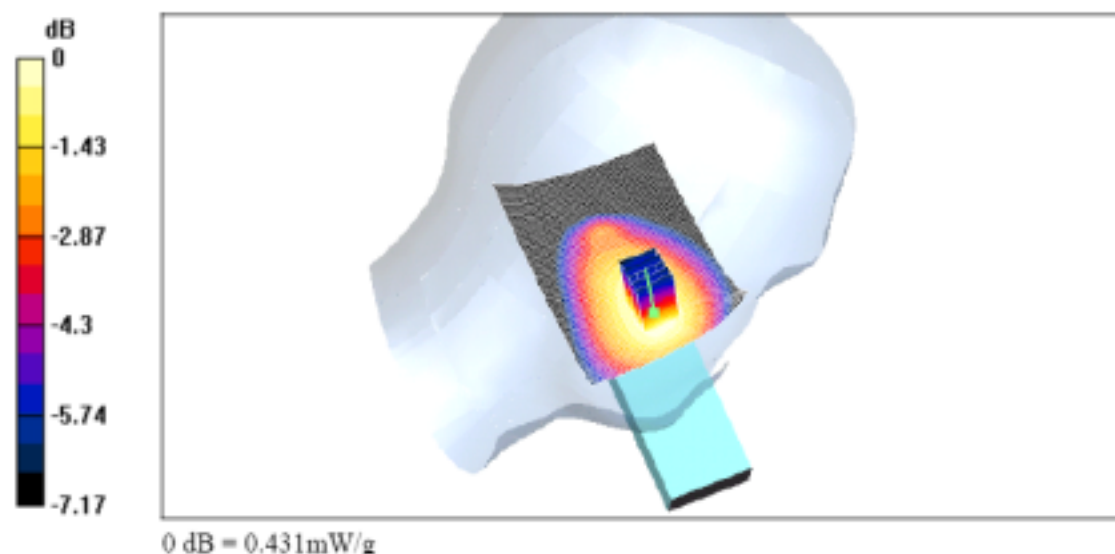
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.539 W/kg

SAR(1 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.431 mW/g





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Kangnamgu, Seoul



**Electromagnetic
Interference
Test Report**

Date/Time: 11/24/04 14:55:40

Test Laboratory: ESTECH

LG-MX4170 - CH 383 RIGHT TILT POSITION

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49 \text{ MHz}$; $\sigma = 0.873 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.353 mW/g

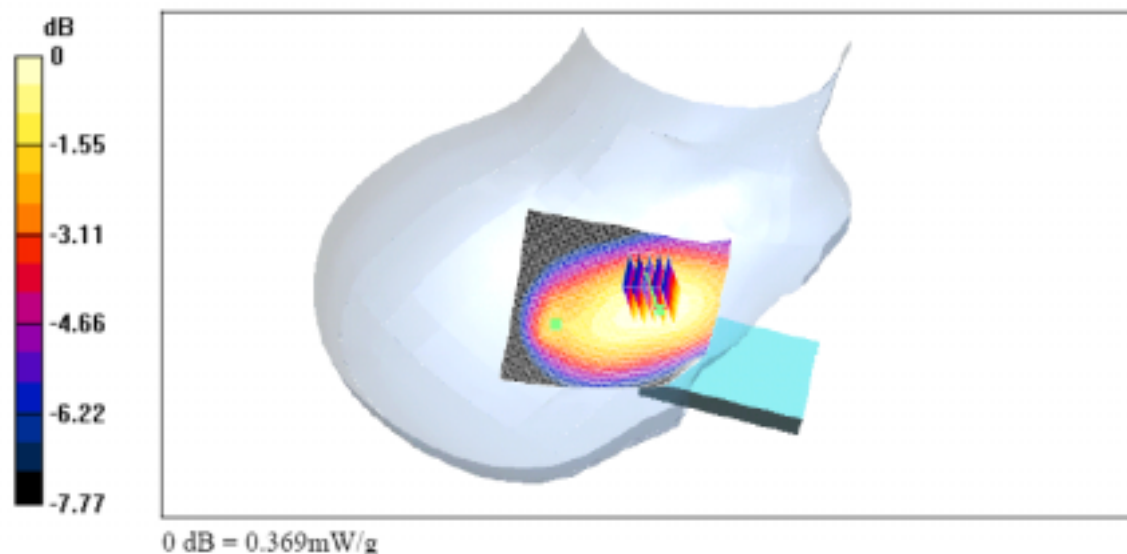
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.343 mW/g

Maximum value of SAR (measured) = 0.369 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/24/04 15:07:41

Test Laboratory: ESTECH

LG-MX4170 - CH 383 LEFT TOUCH POSITION-Z SCAN

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1
Medium: Head 900MHz Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.873$
mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - 5N174B; ConvF(6.35, 6.35, 6.35); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 ℃ ; Humidity : 31%

Unnamed procedure/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

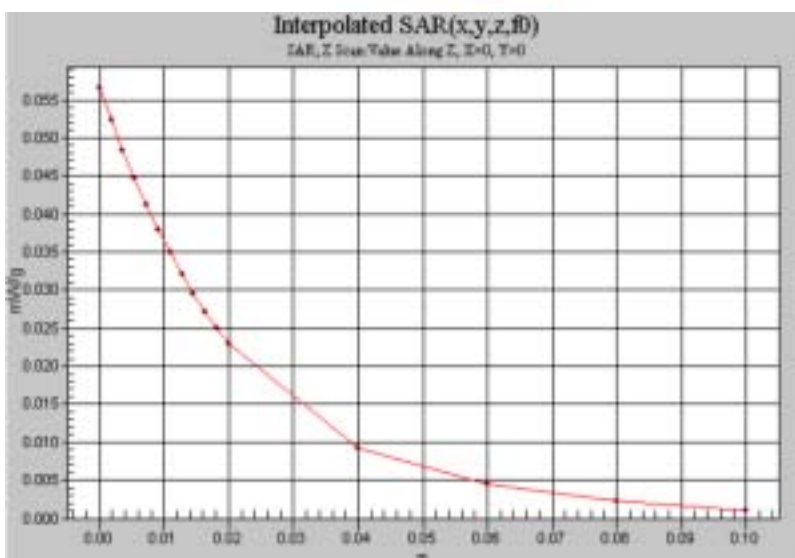
Info: Interpolated medium parameters used for SAR evaluation!

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

Unnamed procedure/Z Scan (1x1x16): Measurement grid: dx=20mm, dy=20mm, dz=20mm

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.057 mW/g





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Kangnamgu, Seoul



**Electromagnetic
Interference
Test Report**

Date/Time: 11/25/04 13:23:54

Test Laboratory: ESTECH

LG-MX4170 - CH 991 BODY SAR

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 824.04 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 824.04$ MHz; $\sigma = 0.953$ mho/m; $\epsilon_r =$

55.2; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.22, 6.22, 6.22); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23°C ; Humidity : 32%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.354 mW/g

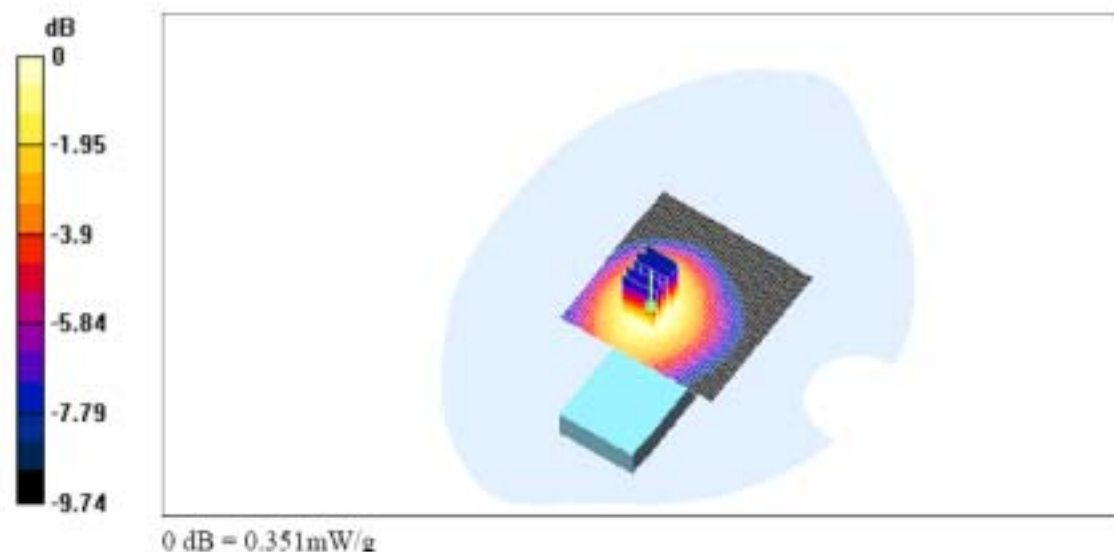
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.326 mW/g

Maximum value of SAR (measured) = 0.351 mW/g





ESTECH Co., Ltd.
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Kangnamgu, Seoul



**Electromagnetic
Interference
Test Report**

Date/Time: 11/25/04 12:10:06

Test Laboratory: ESTECH

LG-MX4170 - CH 383 BODY SAR

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.967$ mho/m; $\epsilon_r = 55$;

$\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.22, 6.22, 6.22); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.756 mW/g

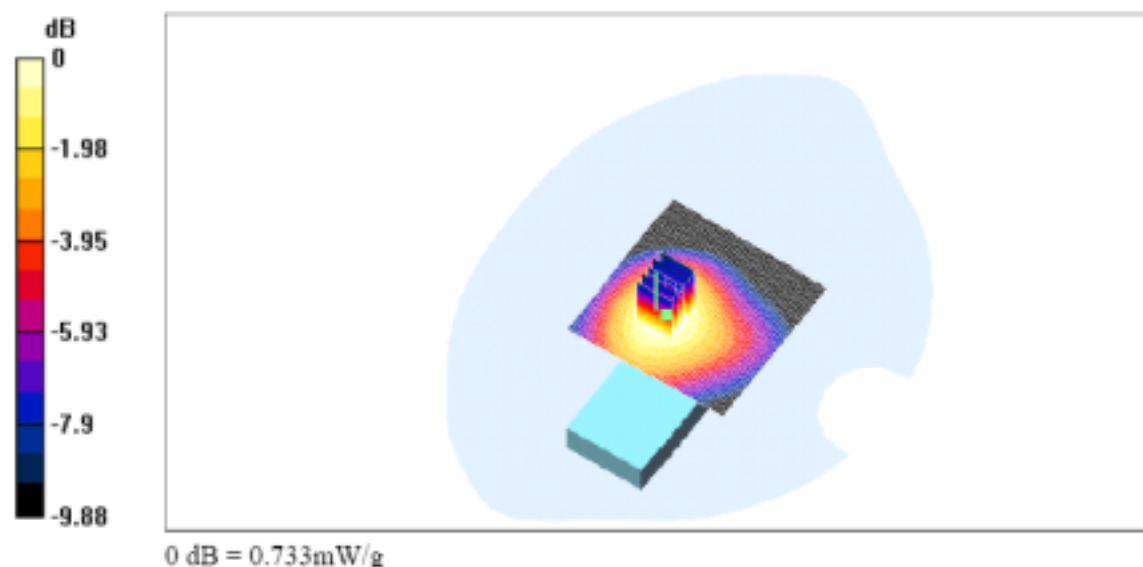
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.977 W/kg

SAR(1 g) = 0.687 mW/g

Maximum value of SAR (measured) = 0.733 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/25/04 13:45:36

Test Laboratory: ESTECH

LG-MX4170 - CH 799 BODY SAR

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 849.97 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 849.97 \text{ MHz}$; $\sigma = 0.977 \text{ mho/m}$; $\epsilon_r =$

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

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.22, 6.22, 6.22); Calibrated: 2004-03-23
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature : 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.576 mW/g

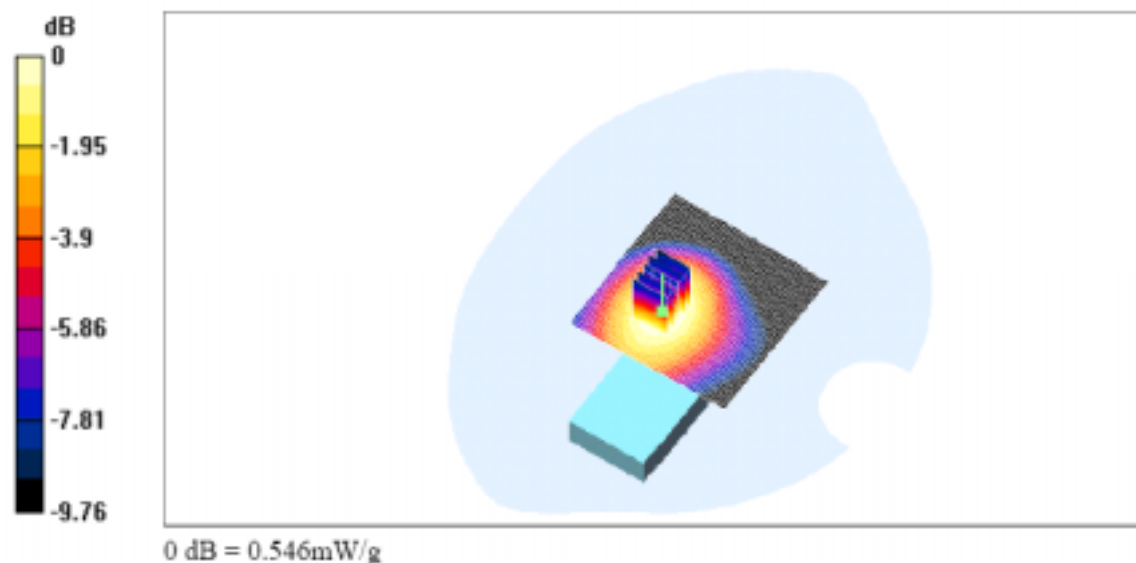
Unnamed procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.8 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.508 mW/g

Maximum value of SAR (measured) = 0.546 mW/g





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**Electromagnetic
Interference
Test Report**

Date/Time: 11/25/04 14:08:25

Test Laboratory: ESTECH

LG-MX4170 - CH 383 BODY SAR-Z SCAN

DUT: LG-MX4170; Type: Tri-Mode Dual-Band Analog/PCS Phone(AMPS/CDMA); Serial: NONE

Communication System: AMPS 835; Frequency: 836.49 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 836.49$ MHz; $\sigma = 0.067$ mho/m; $\epsilon_r = 55$;

$\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.22, 6.22, 6.22); Calibrated: 2004-03-23
- Sensor-Surface: 4um (Mechanical And Optical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sa551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.3 Build 16; Postprocessing SW: SEMCAD, V1.8 Build 123
- Temperature: 23 °C ; Humidity : 30%

Unnamed procedure/Area Scan (61x61x1); Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (interpolated) = 0.802 mW/g

Unnamed procedure/Z Scan (1x1x16); Measurement grid: dx=20mm, dy=20mm, dz=20mm

Info: Interpolated medium parameters used for SAR evaluation!

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

