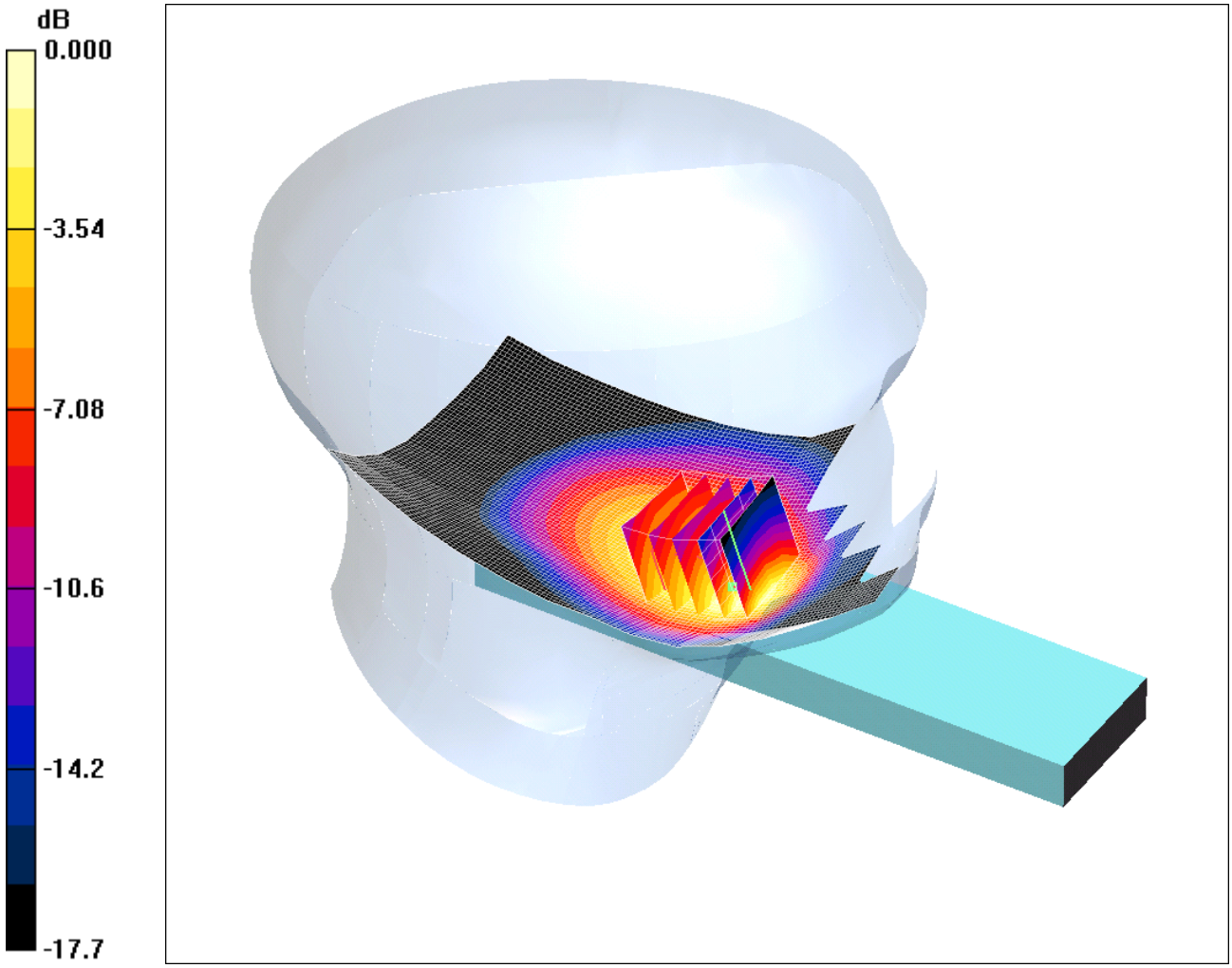
Appendix 3. SAR Distribution Scans

This appendix contains SAR distribution scans which are not included in the total number of pages for this report.

Scan Reference Number	Title
SCN/74681JD09/001	Touch Left UMTS FDD V CH4183
SCN/74681JD09/002	Tilt Left UMTS FDD V CH4183
SCN/74681JD09/003	Touch Right UMTS FDD V CH4183
SCN/74681JD09/004	Tilt Right UMTS FDD V CH4183
SCN/74681JD09/005	Front of EUT Facing Phantom UMTS FDD V CH4183
SCN/74681JD09/006	Rear of EUT Facing Phantom UMTS FDD V CH4183
SCN/74681JD09/007	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad UMTS FDD V CH4183
SCN/74681JD09/008	Rear of EUT Facing Phantom With PHF UMTS FDD V CH4183
SCN/74681JD09/009	Rear of EUT Facing Phantom HSDPA FDD V CH4183
SCN/74681JD09/010	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad With PHF 0mm separation UMTS FDD V CH4183
SCN/74681JD09/011	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad With PHF 0mm separation UMTS FDD V CH4132
SCN/74681JD09/012	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad With PHF 0mm separation UMTS FDD V CH4233
SCN/74681JD09/013	Touch Left PCS CH660
SCN/74681JD09/014	Tilt Left PCS CH660
SCN/74681JD09/015	Touch Right PCS CH660
SCN/74681JD09/016	Tilt Right PCS CH660
SCN/74681JD09/017	Front of EUT Facing Phantom GPRS CH660
SCN/74681JD09/018	Rear of EUT Facing Phantom GPRS CH660
SCN/74681JD09/019	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad PCS CH660
SCN/74681JD09/020	Rear of EUT Facing Phantom With PHF GPRS CH660
SCN/74681JD09/021	Rear of EUT Facing Phantom PCS CH660
SCN/74681JD09/022	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad 0mm separation PCS CH660
SCN/74681JD09/023	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad 0mm separation PCS CH512
SCN/74681JD09/024	Rear of EUT Facing Phantom With Display 90 Degrees to Keypad 0mm separation PCS CH810
SCN/74681JD09/025	System Performance Check 1900MHz Body 03 03 08
SCN/74681JD09/026	System Performance Check 1900MHz Head 03 03 09

Scan Reference Number	Title
SCN/74681JD09/027	System Performance Check 900MHz Body 28 02 09
SCN/74681JD09/028	System Performance Check 900MHz Head 27 02 09
SCN/74681JD09/029	System Performance Check 900MHz Body 02 04 09
SCN/74681JD09/030	System Performance Check 1900MHz Body 02 04 09

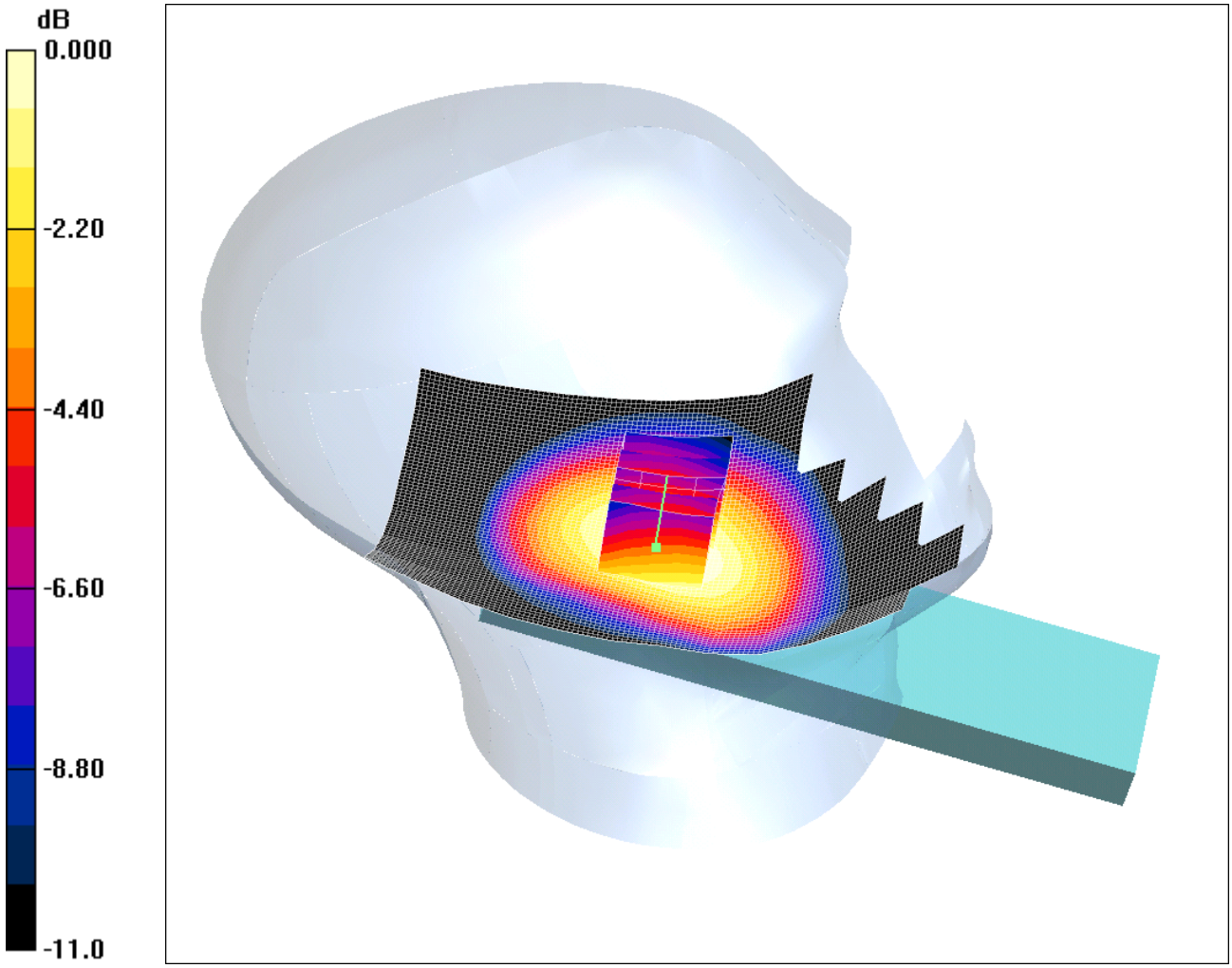
SCN/74681JD09/001: Touch Left UMTS FDD V CH4183
Date: 27/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.622mW/g

Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.918 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.14, 10.14, 10.14); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Touch Left - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.609 mW/g
Touch Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.73 V/m; Power Drift = -0.150 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.333 mW/g
Maximum value of SAR (measured) = 0.622 mW/g

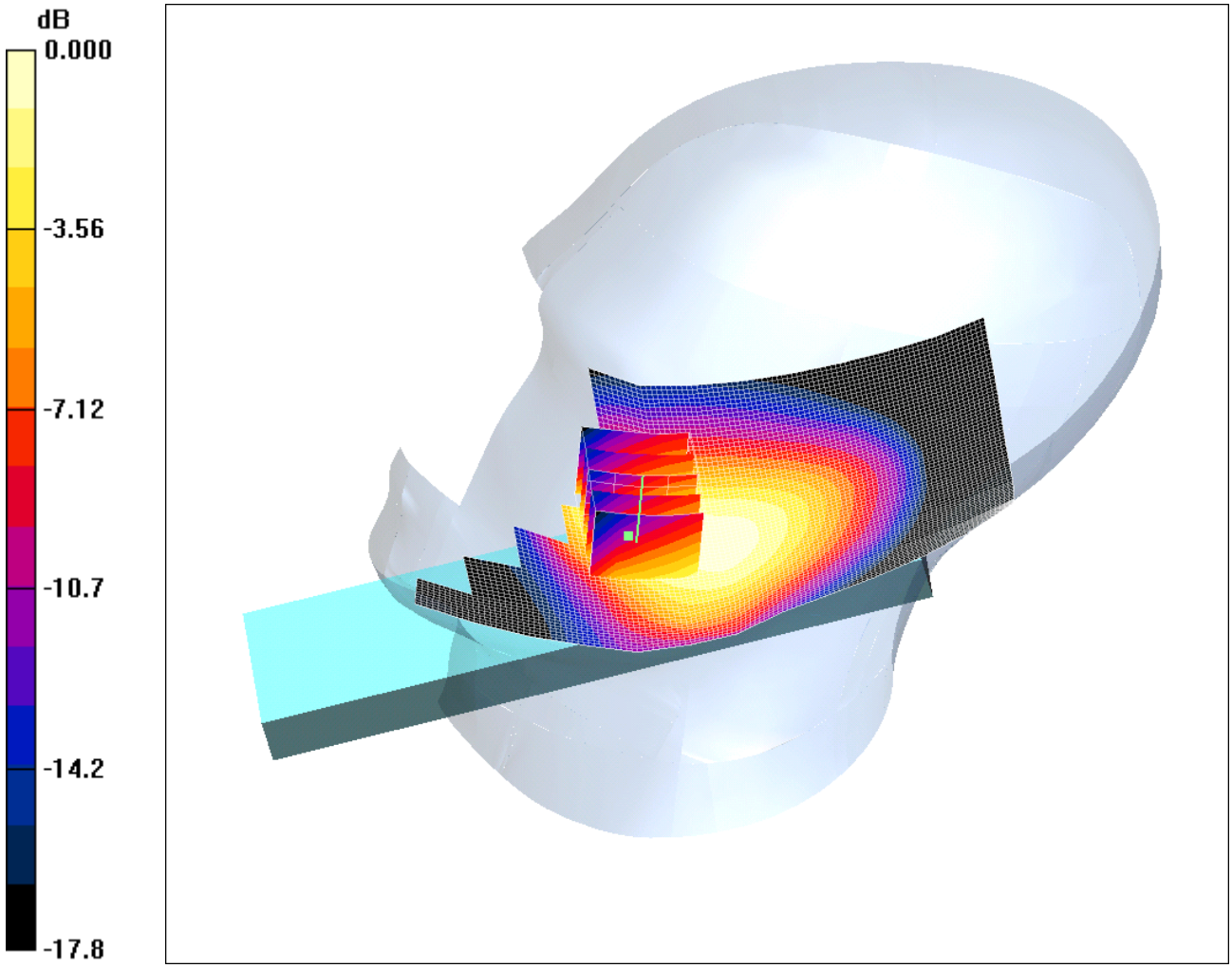
SCN/74681JD09/002: Tilt Left UMTS FDD V CH4183
Date: 27/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.159mW/g

Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.918 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.14, 10.14, 10.14); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Tilt Left - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.160 mW/g
Tilt Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.97 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 0.193 W/kg
SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.112 mW/g
Maximum value of SAR (measured) = 0.159 mW/g

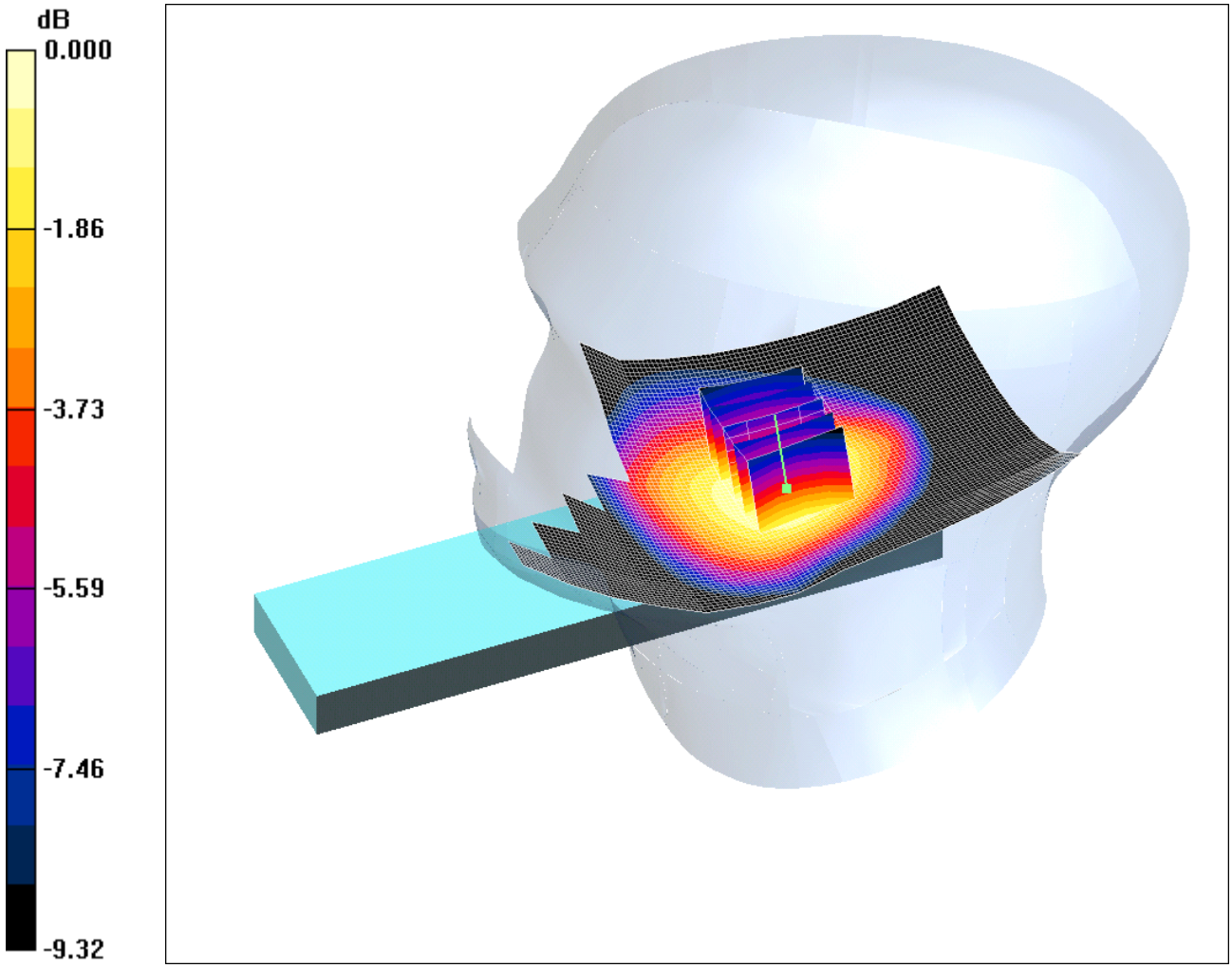
SCN/74681JD09/003: Touch Right UMTS FDD V CH4183
Date: 27/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.364mW/g

Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.918 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.14, 10.14, 10.14); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Touch Right - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.399 mW/g
Touch Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.45 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.636 W/kg
SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.223 mW/g
Maximum value of SAR (measured) = 0.364 mW/g

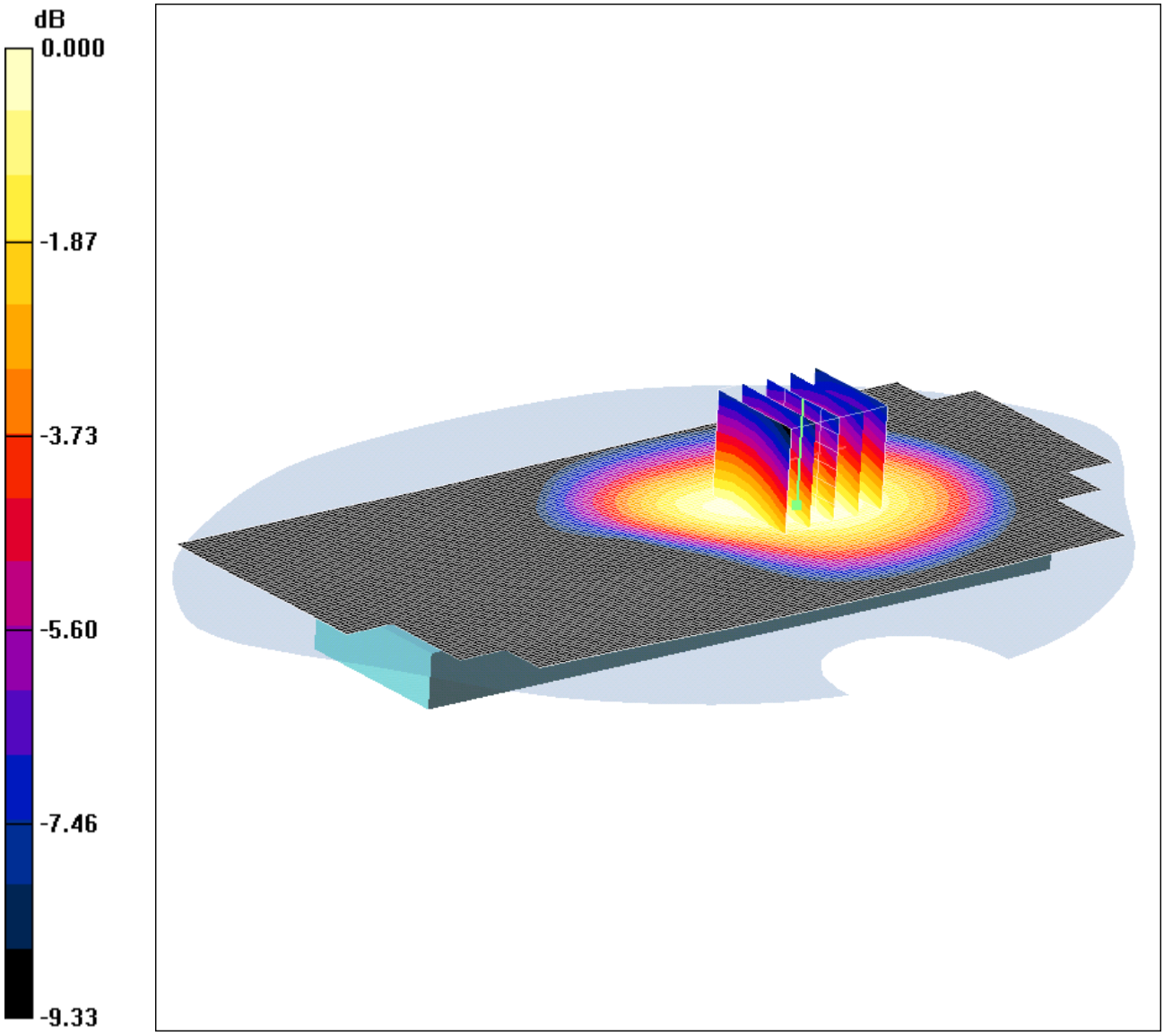
SCN/74681JD09/004: Tilt Right UMTS FDD V CH4183
Date: 27/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.126mW/g

Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.918 mho/m; ε_r = 43.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.14, 10.14, 10.14); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Touch Right - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.127 mW/g
Touch Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.77 V/m; Power Drift = -0.067 dB
Peak SAR (extrapolated) = 0.155 W/kg
SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.087 mW/g
Maximum value of SAR (measured) = 0.126 mW/g

SCN/74681JD09/005: Front of EUT Facing Phantom UMTS FDD V CH4183
Date: 28/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.088mW/g

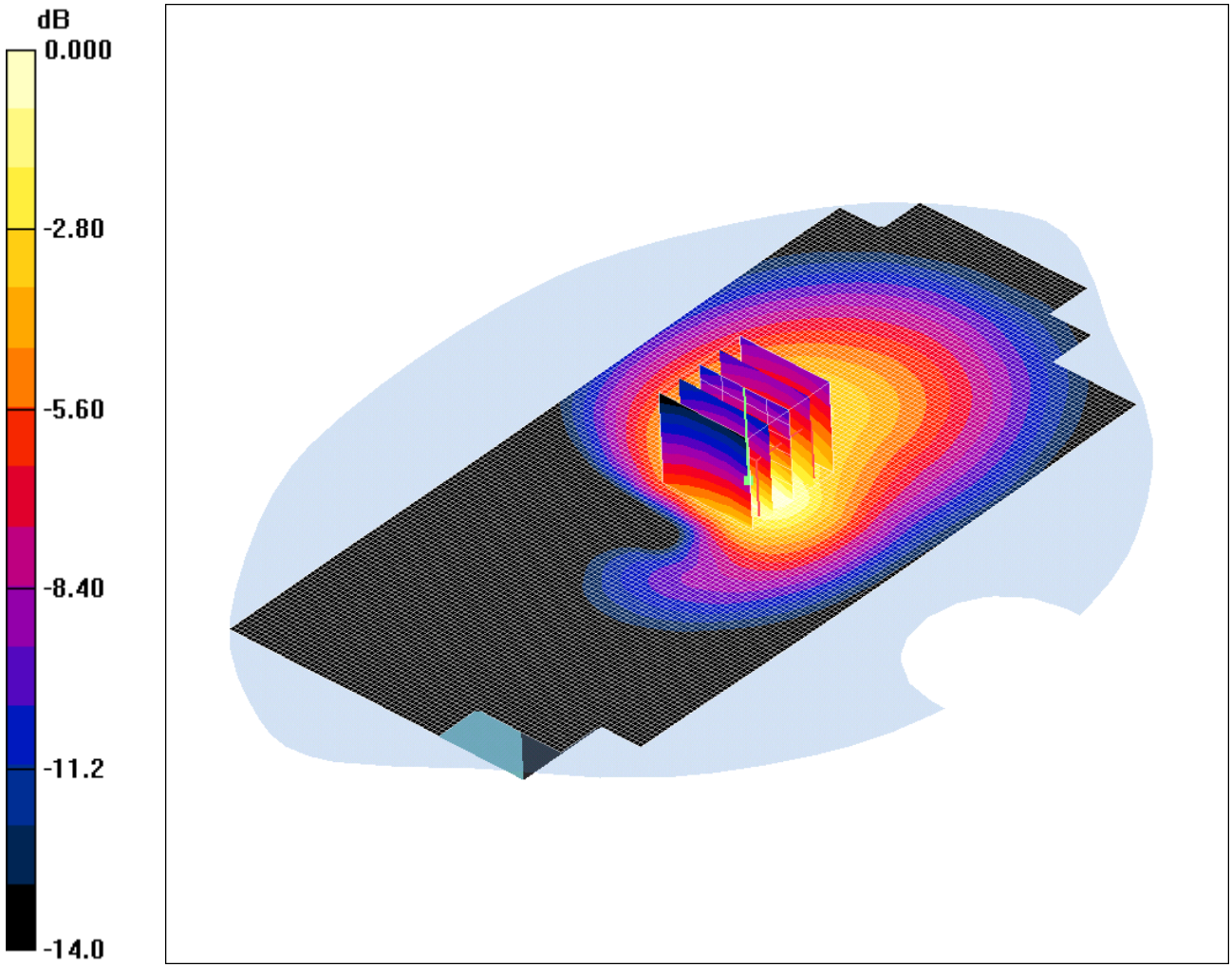
Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.959 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Front of EUT Facing Phantom 2/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.087 mW/g
Front of EUT Facing Phantom 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.90 V/m; Power Drift = 0.102 dB
Peak SAR (extrapolated) = 0.108 W/kg
SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.062 mW/g
Maximum value of SAR (measured) = 0.088 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/006: Rear of EUT Facing Phantom UMTS FDD V CH4183
Date: 28/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153

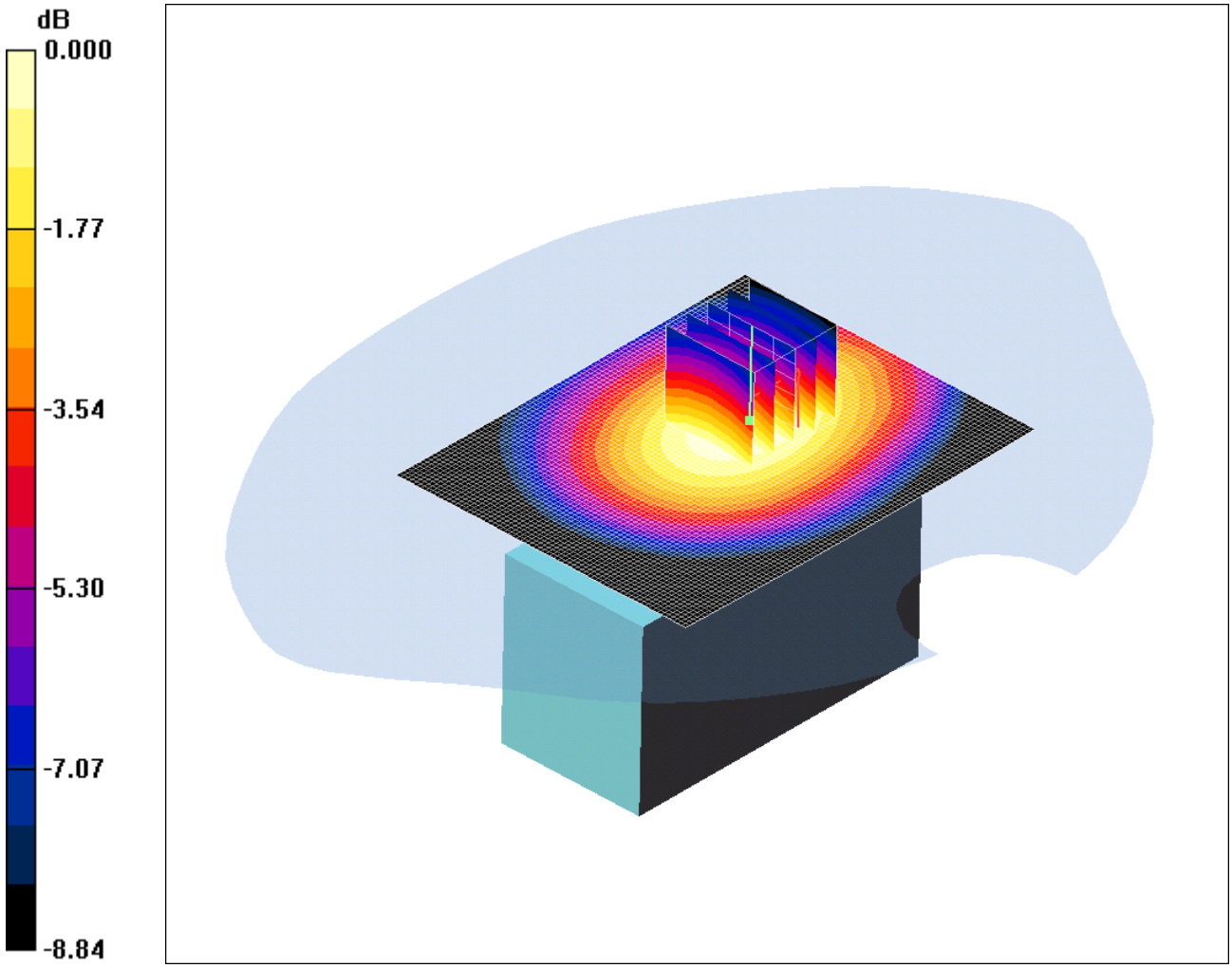


0 dB = 0.158mW/g

Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.959 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.166 mW/g
Rear of EUT Facing Phantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.5 V/m; Power Drift = -0.001 dB
Peak SAR (extrapolated) = 0.238 W/kg
SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.091 mW/g
Maximum value of SAR (measured) = 0.158 mW/g

SCN/74681JD09/007: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad UMTS FDD V CH4183
Date: 28/02/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.149mW/g

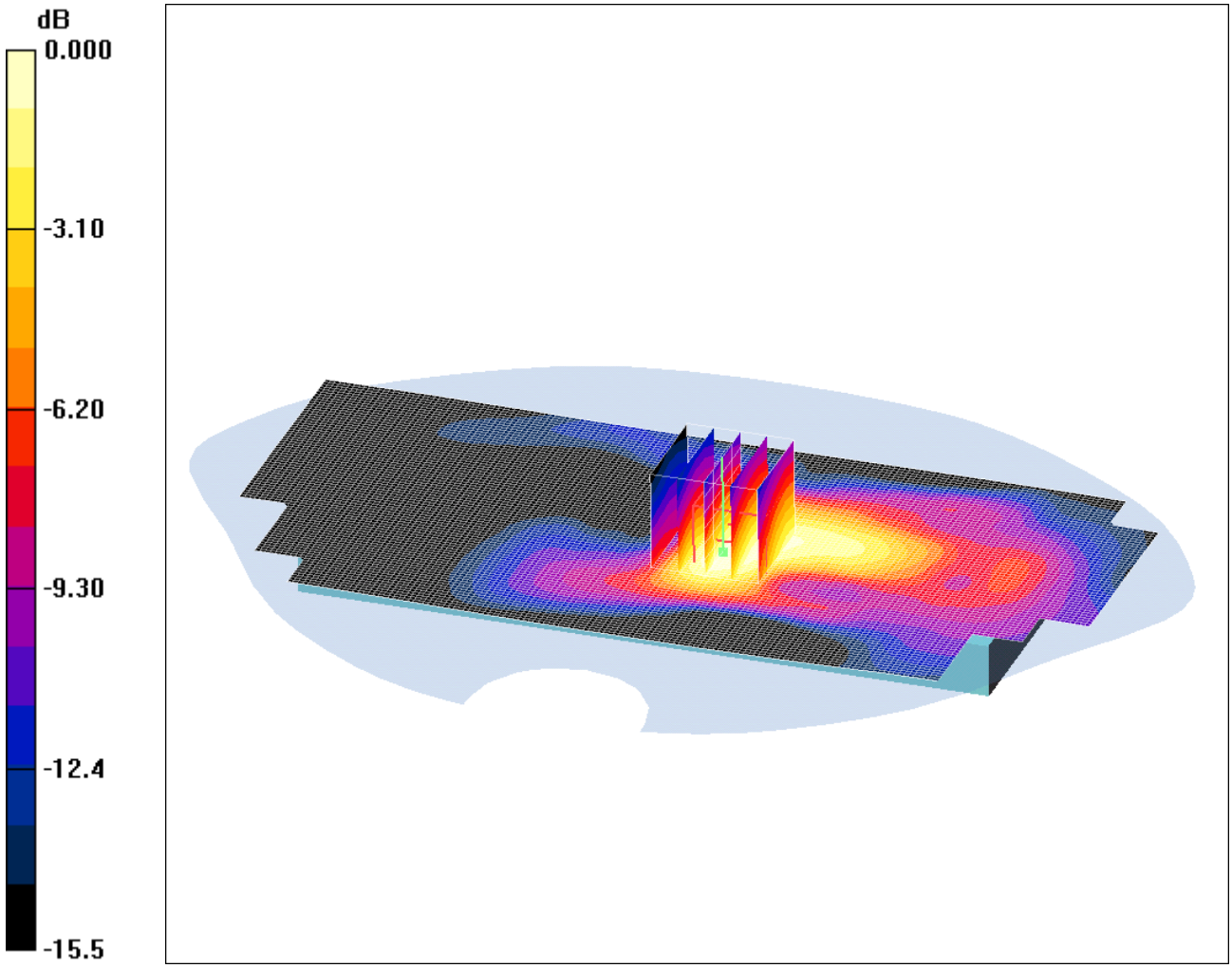
Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.959 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - Middle 2/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.150 mW/g
Rear of EUT Facing Phantom - Middle 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = 0.015 dB
Peak SAR (extrapolated) = 0.184 W/kg
SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.149 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/008: Rear of EUT Facing Phantom With PHF UMTS FDD V CH4183
Date: 28/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153

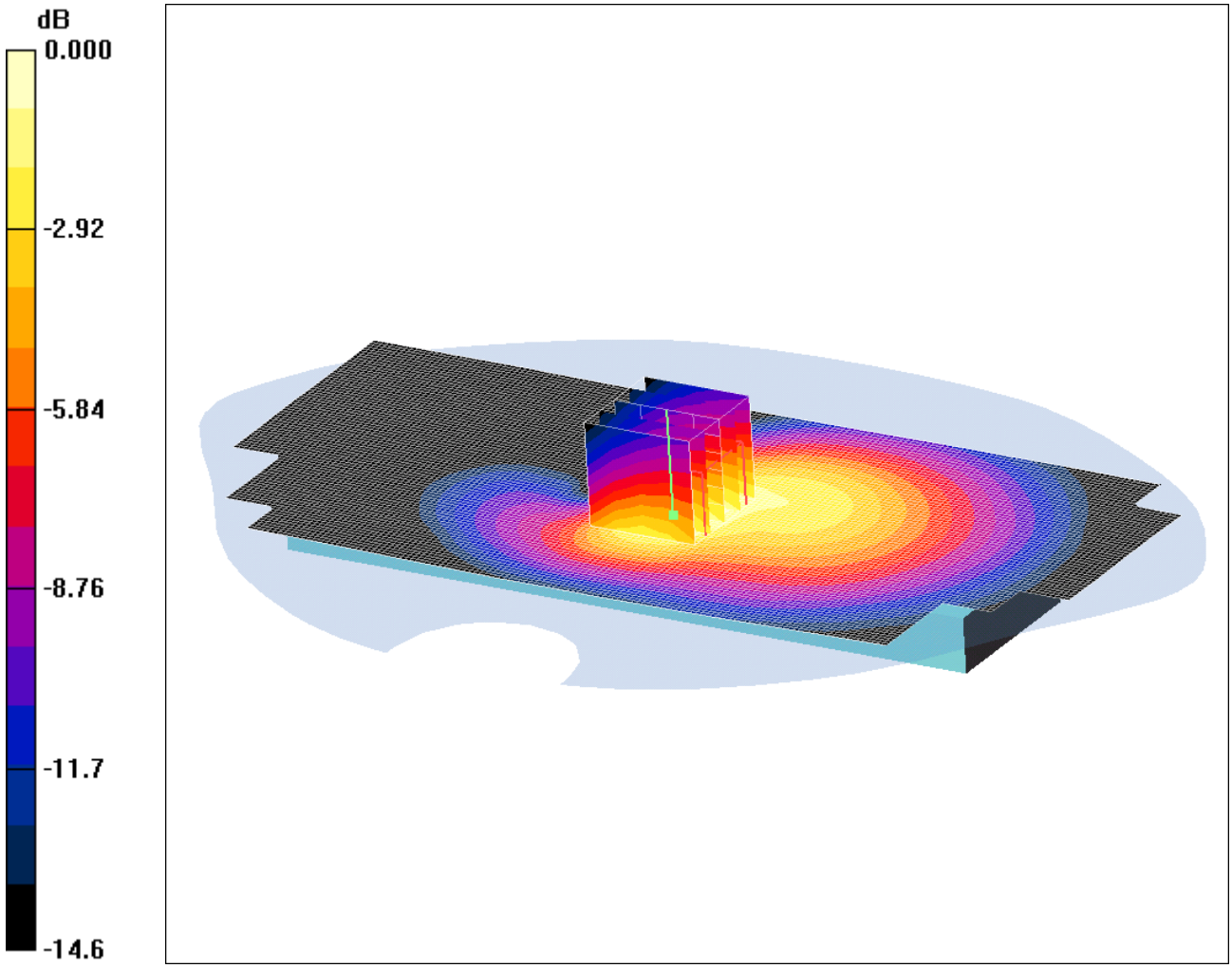


0 dB = 0.150mW/g

Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.959 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.157 mW/g
Rear of EUT Facing Phantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.03 V/m; Power Drift = 0.101 dB
Peak SAR (extrapolated) = 0.226 W/kg
SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.084 mW/g
Maximum value of SAR (measured) = 0.150 mW/g

SCN/74681JD09/009: Rear of EUT Facing Phantom HSDPA FDD V CH4183
Date: 28/02/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.156mW/g

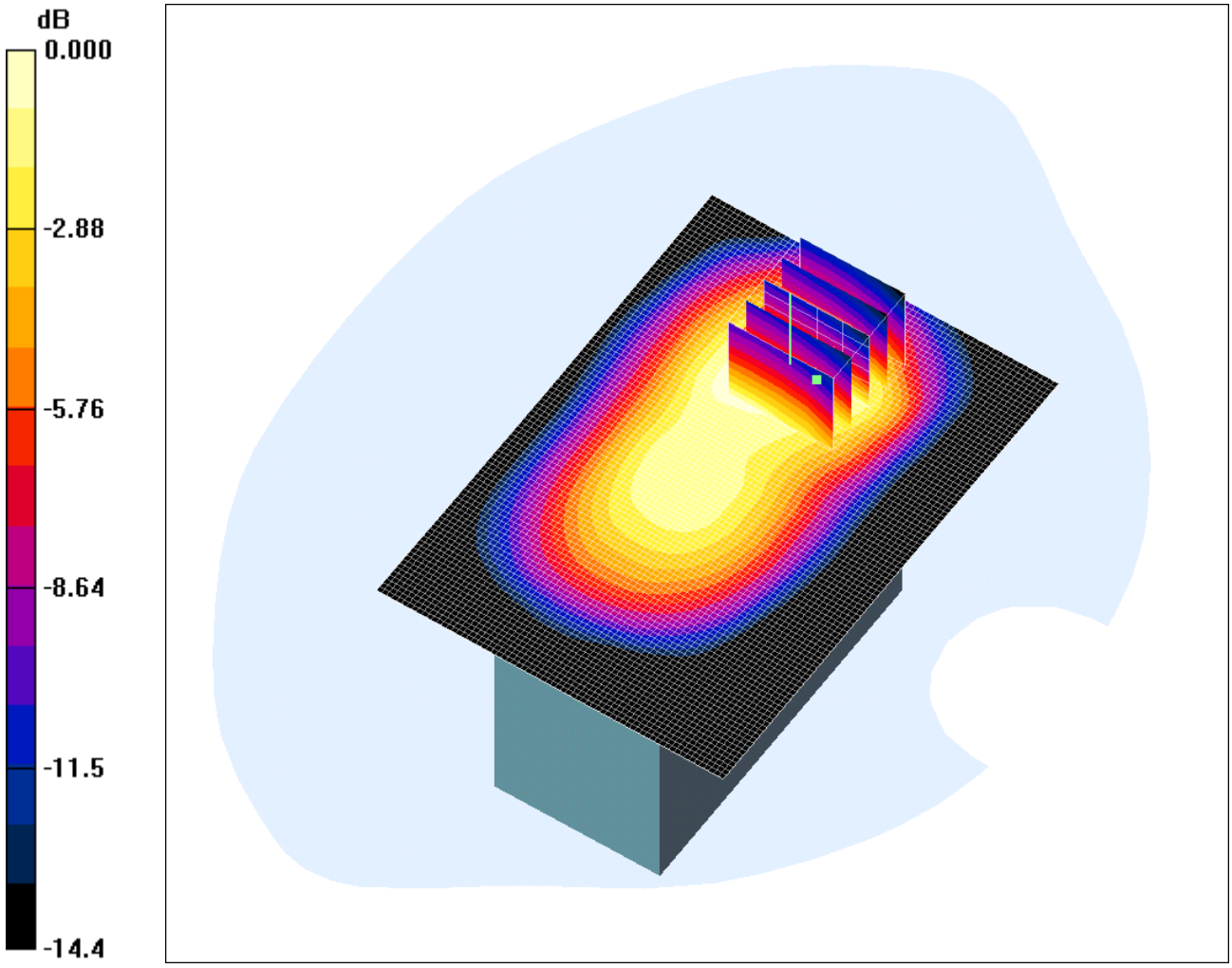
Communication System: UMTS-FDD V; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.959 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.151 mW/g
Rear of EUT Facing Phantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.0 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 0.233 W/kg
SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.089 mW/g
Maximum value of SAR (measured) = 0.156 mW/g

Test of: **NTT docomo P-07A**

To: **OET Bulletin 65 Supplement C: (2001-01)**

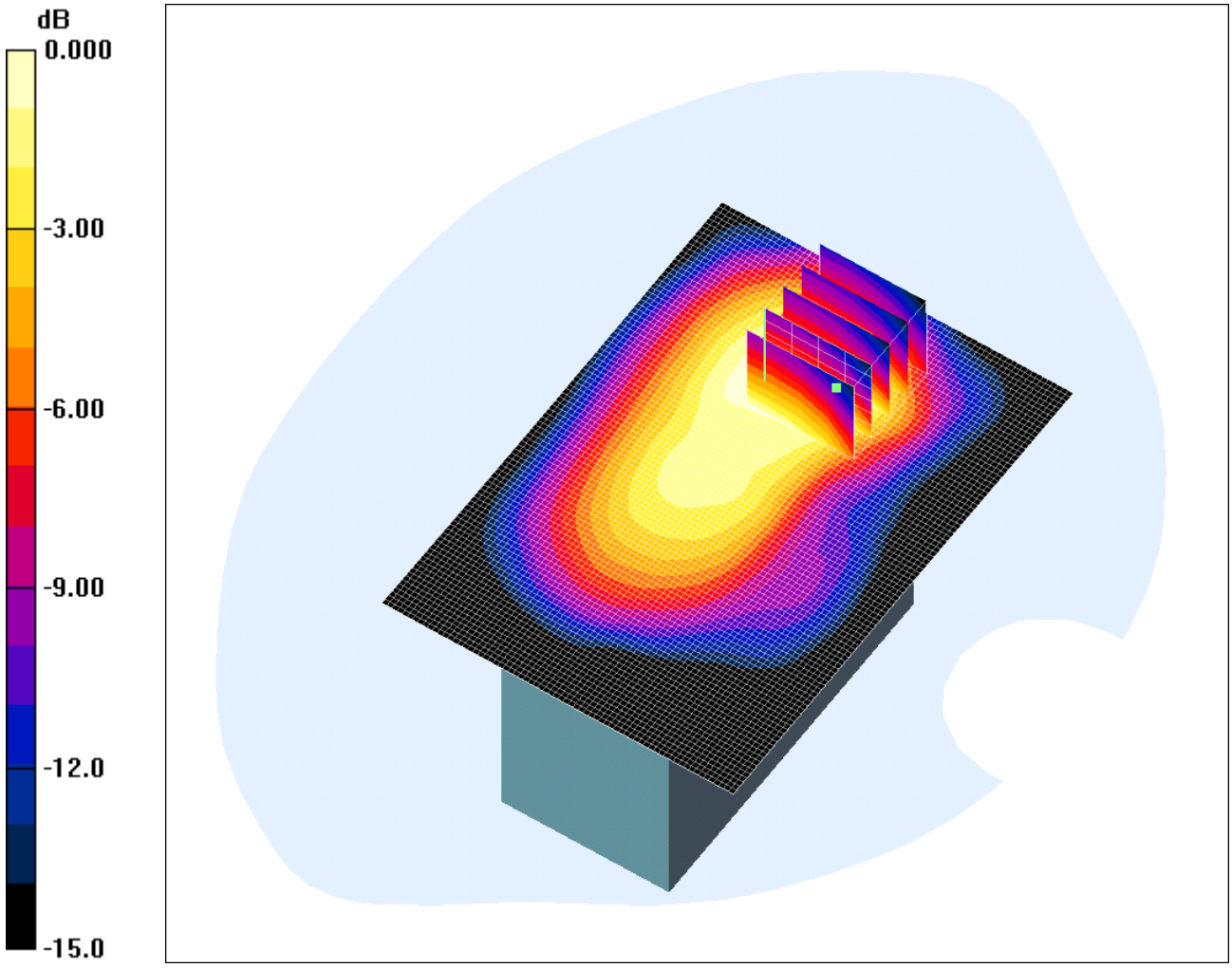
SCN/74681JD09/010: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad With PHF 0mm separation UMTS FDD V CH4183. Date: 02/04/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.419mW/g

Communication System: UMTS-FDD V; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.98 mho/m; ε_r = 54; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Rear of EUT Facing Phantom - Middle/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.450 mW/g
Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.0 V/m; Power Drift = 0.067 dB
Peak SAR (extrapolated) = 0.720 W/kg
SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.237 mW/g
Maximum value of SAR (measured) = 0.419 mW/g

SCN/74681JD09/011: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad With PHF 0mm separation UMTS FDD V CH4132
Date: 02/04/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153

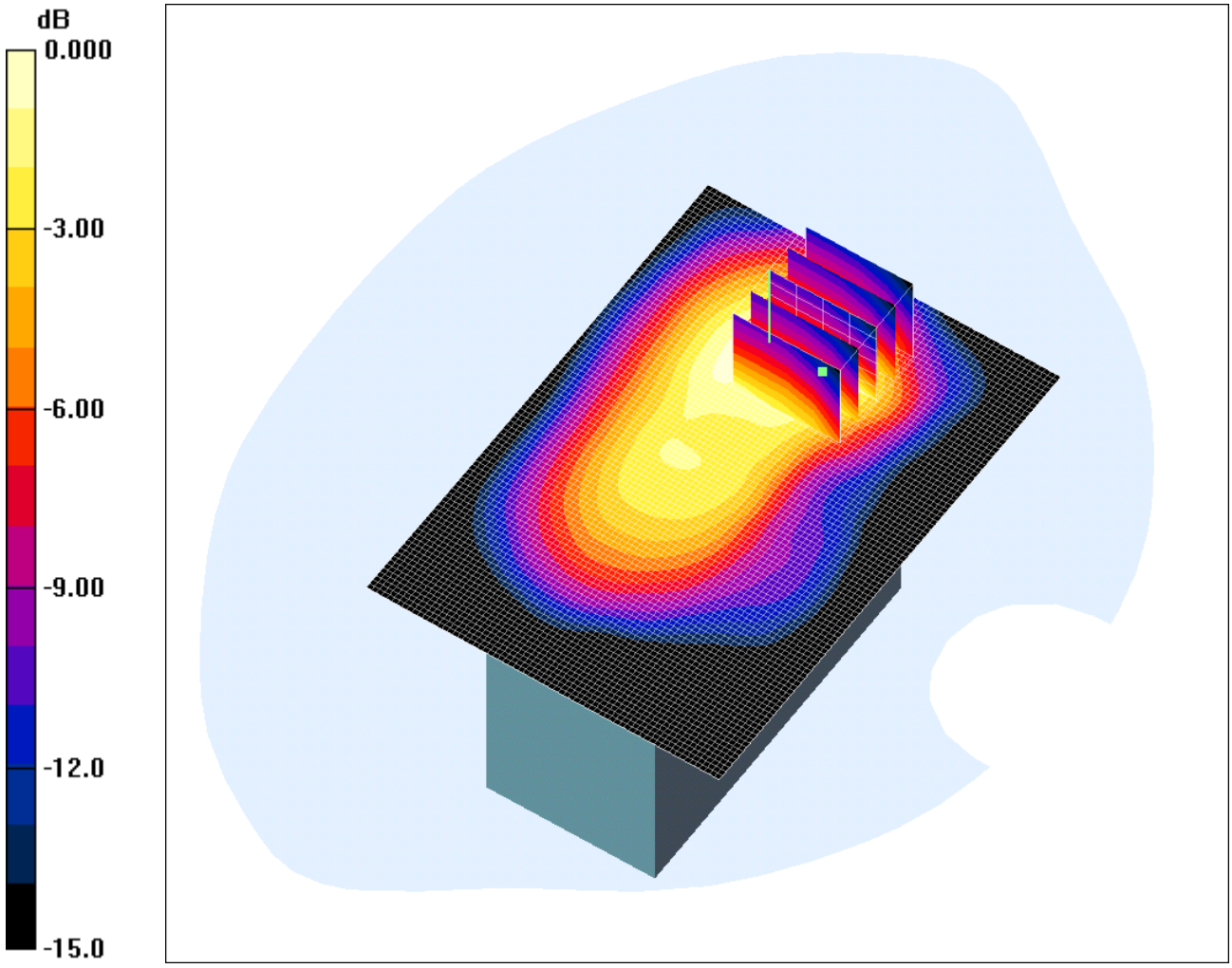


0 dB = 0.427mW/g

Communication System: UMTS-FDD V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.97 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - Low/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.488 mW/g
Rear of EUT Facing Phantom - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.9 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 0.753 W/kg
SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.244 mW/g
Maximum value of SAR (measured) = 0.427 mW/g

SCN/74681JD09/012: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad With PHF 0mm separation UMTS FDD V CH4233
Date: 02/04/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153

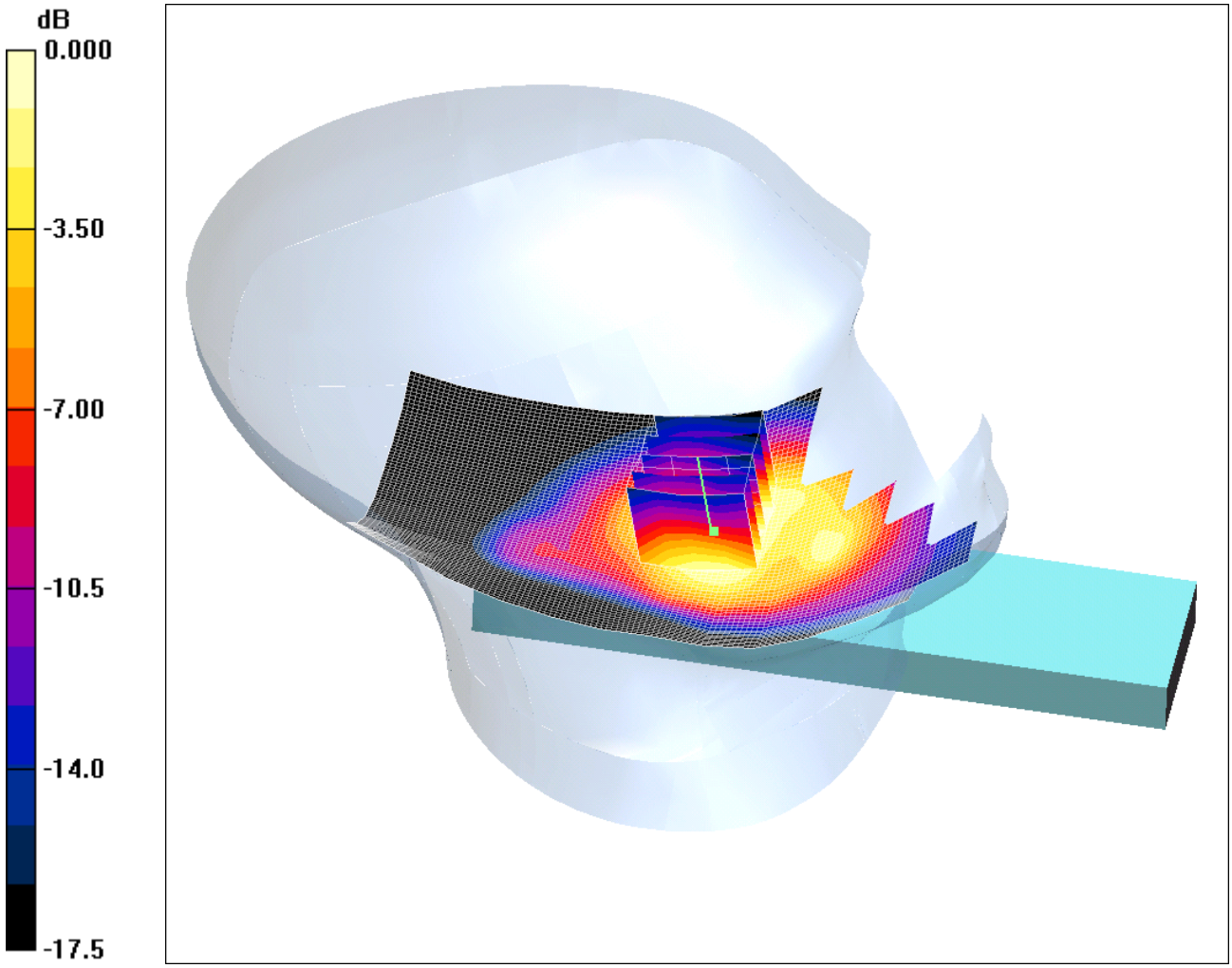


0 dB = 0.418mW/g

Communication System: UMTS-FDD V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.989 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - High/Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.457 mW/g
Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.0 V/m; Power Drift = 0.046 dB
Peak SAR (extrapolated) = 0.798 W/kg
SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.223 mW/g
Maximum value of SAR (measured) = 0.418 mW/g

SCN/74681JD09/013: Touch Left PCS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



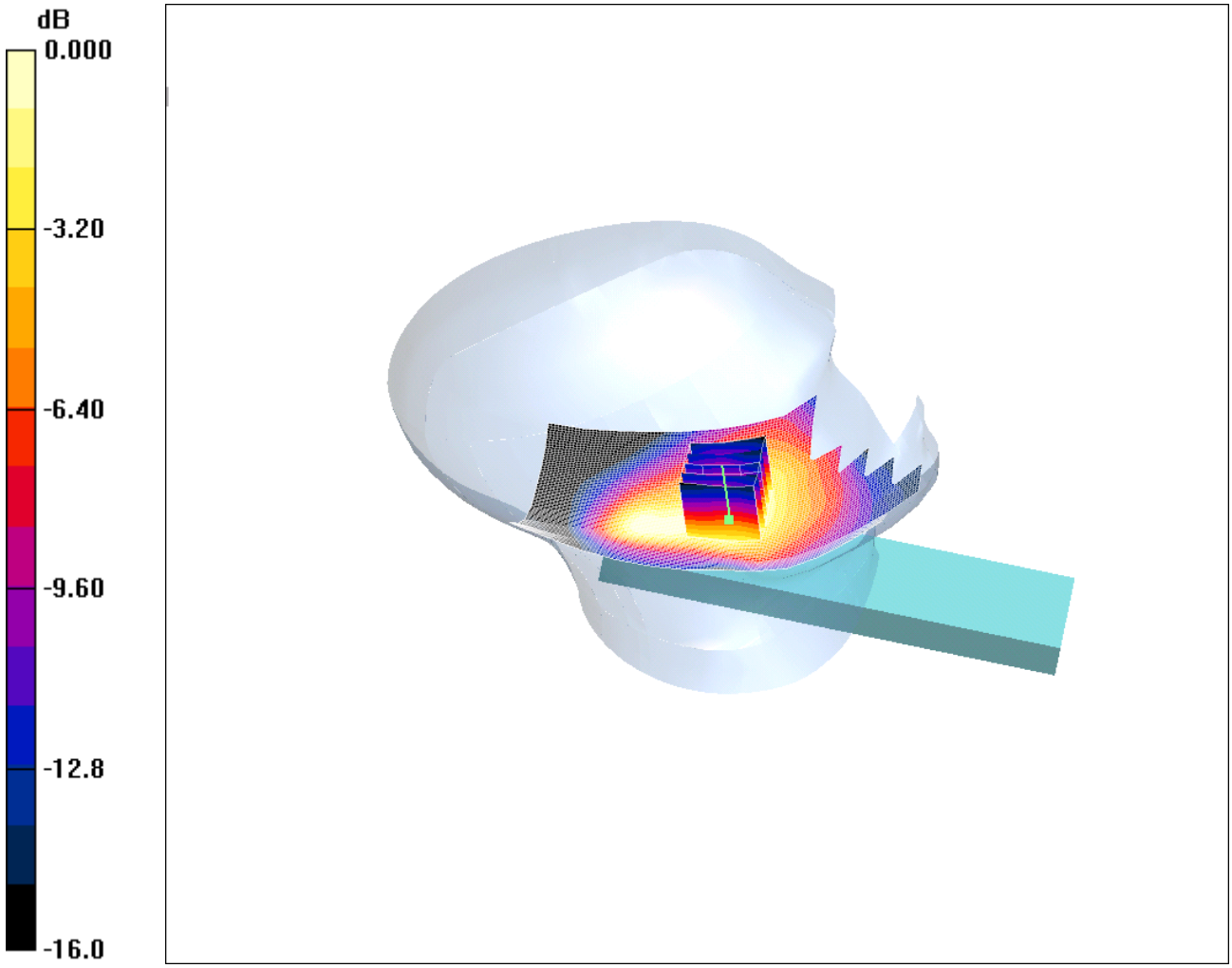
0 dB = 0.610mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.44 mho/m; ε_r = 40.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Touch Left - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.647 mW/g
Touch Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.71 V/m; Power Drift = -0.361 dB
Peak SAR (extrapolated) = 0.892 W/kg
SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.346 mW/g
Maximum value of SAR (measured) = 0.610 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/014: Tilt Left PCS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



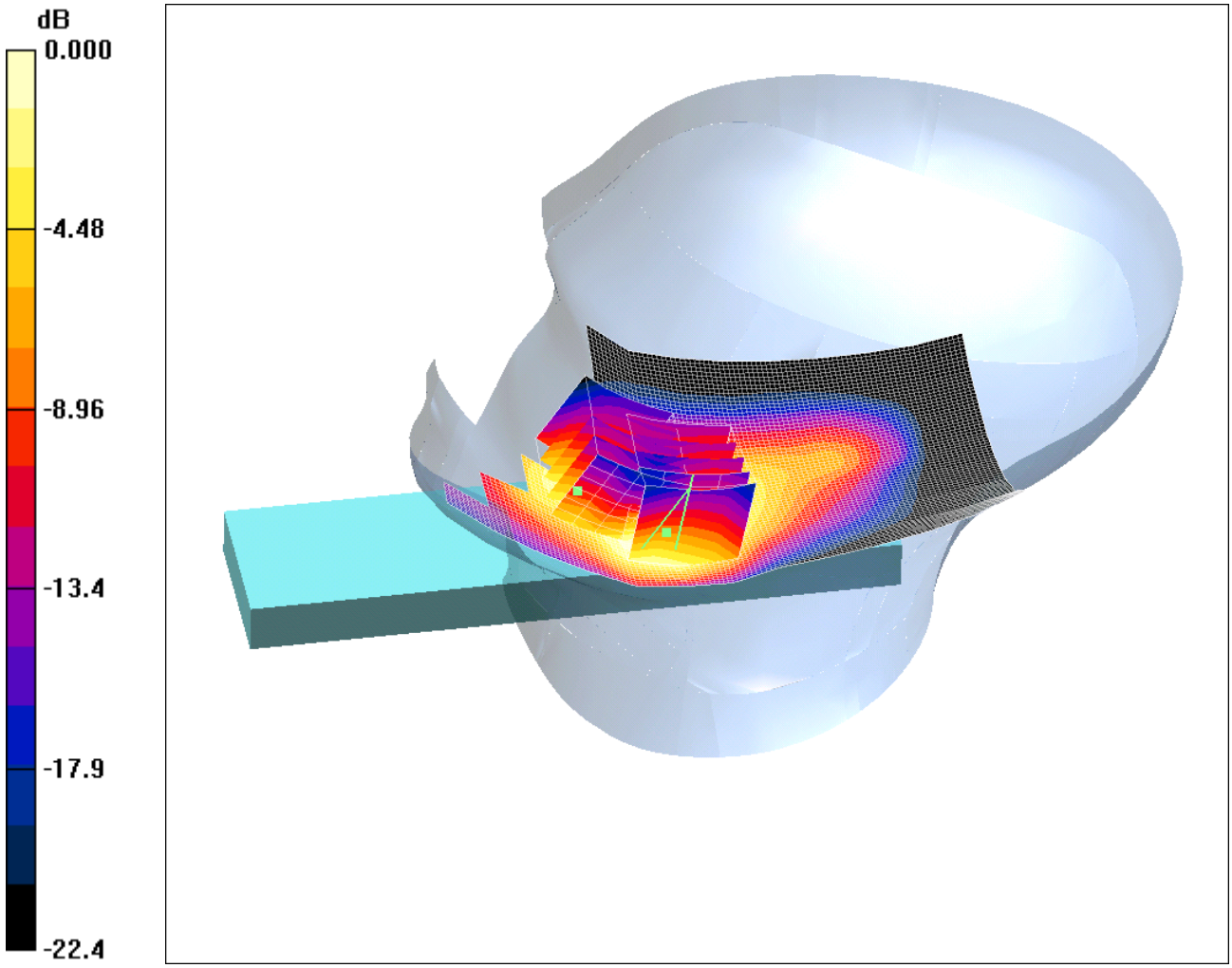
0 dB = 0.120mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.44 mho/m; ε_r = 40.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Tilt Left - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.122 mW/g
Tilt Left - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.78 V/m; Power Drift = -0.112 dB
Peak SAR (extrapolated) = 0.171 W/kg
SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.069 mW/g
Maximum value of SAR (measured) = 0.120 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/015: Touch Right PCS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153

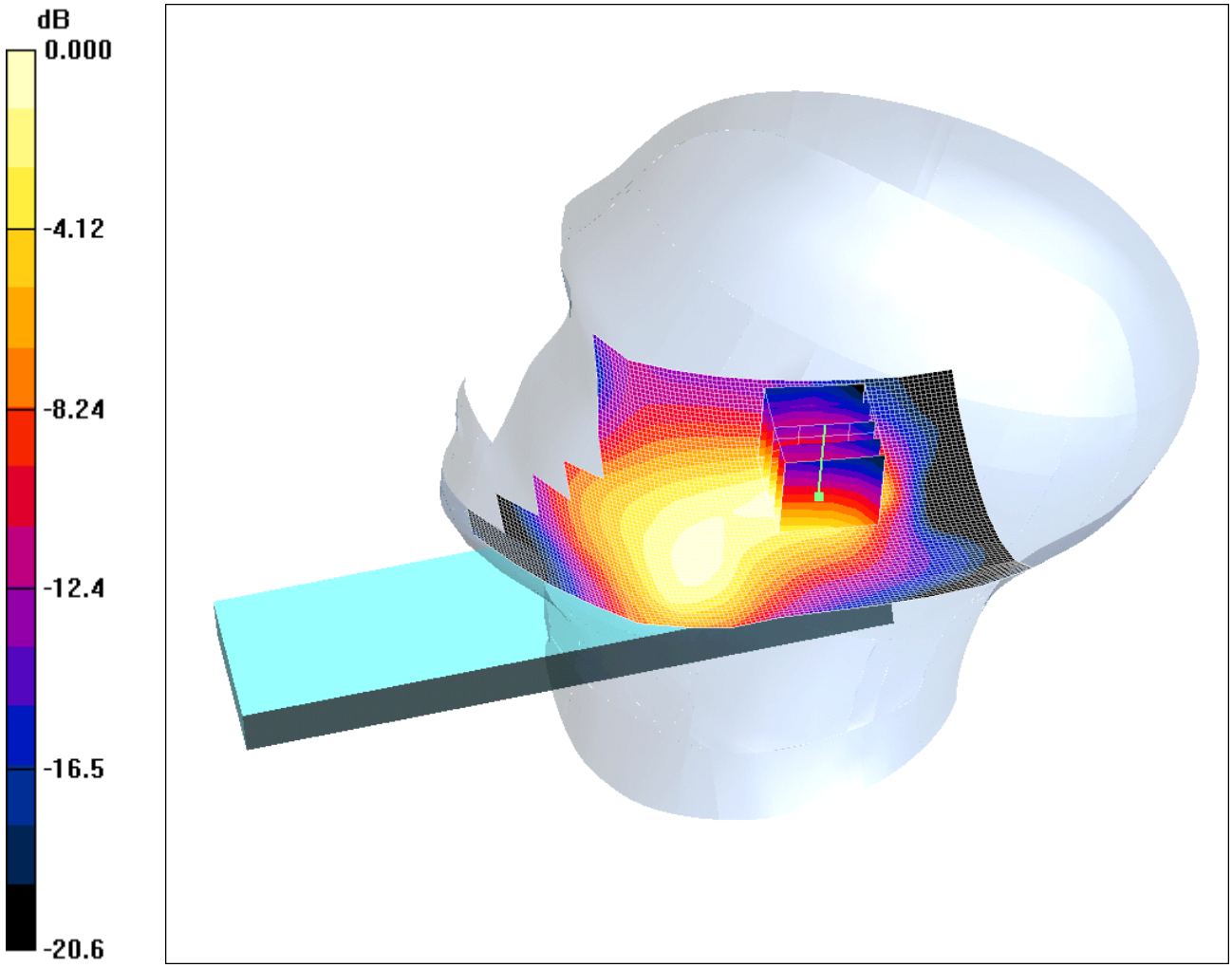


0 dB = 0.675mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.44 mho/m; ε_r = 40.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Touch Right - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.756 mW/g
Touch Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.15 V/m; Power Drift = -0.469 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.397 mW/g
Maximum value of SAR (measured) = 0.751 mW/g
Touch Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.15 V/m; Power Drift = -0.469 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.515 mW/g; SAR(10 g) = 0.291 mW/g
Maximum value of SAR (measured) = 0.675 mW/g

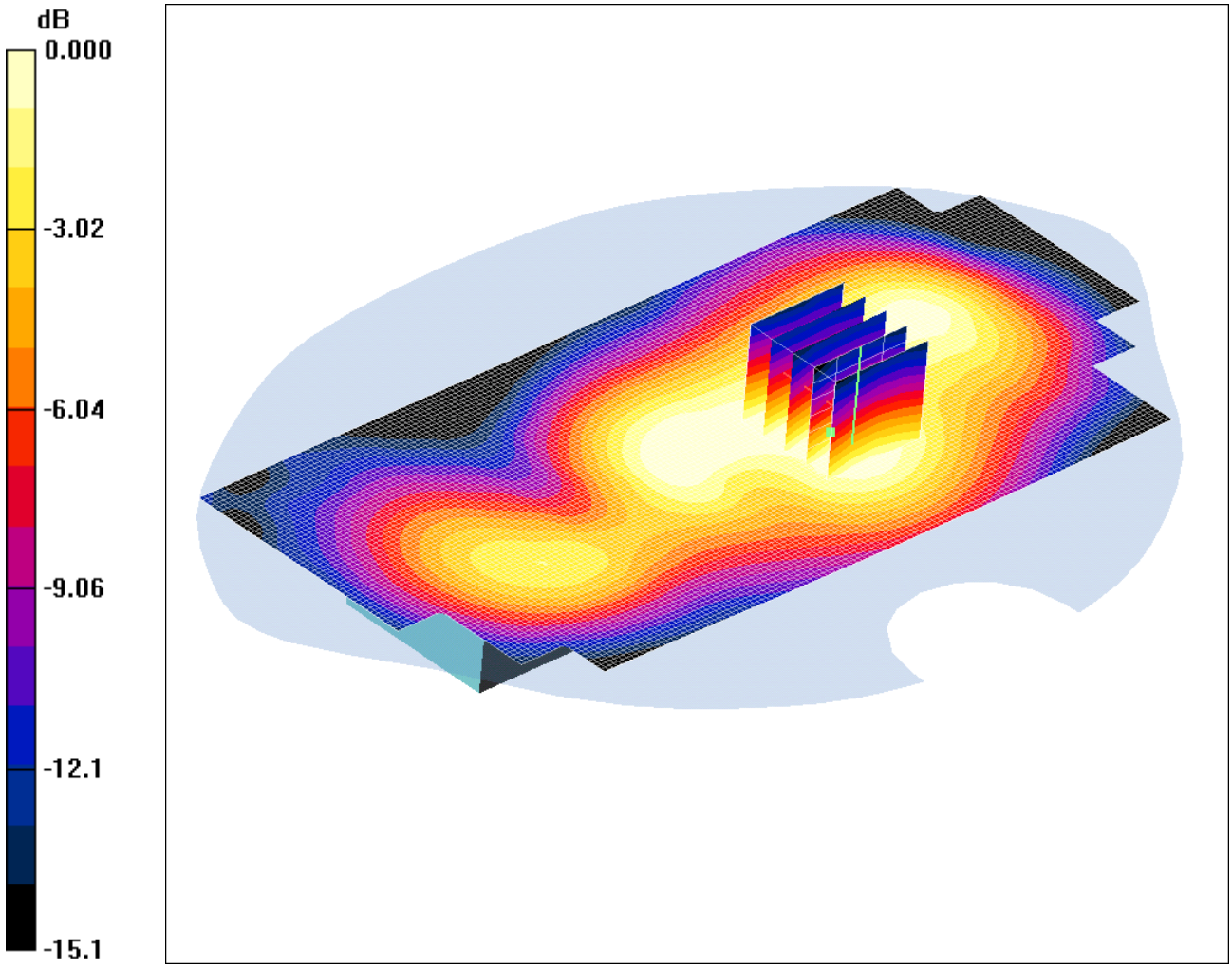
SCN/74681JD09/016: Tilt Right PCS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.135mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz HSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.44 mho/m; ε_r = 40.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
Tilt Right - Middle/Area Scan (71x161x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.152 mW/g
Tilt Right - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.88 V/m; Power Drift = 0.161 dB
Peak SAR (extrapolated) = 0.220 W/kg
SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.068 mW/g
Maximum value of SAR (measured) = 0.135 mW/g

SCN/74681JD09/017: Front of EUT Facing Phantom GPRS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153

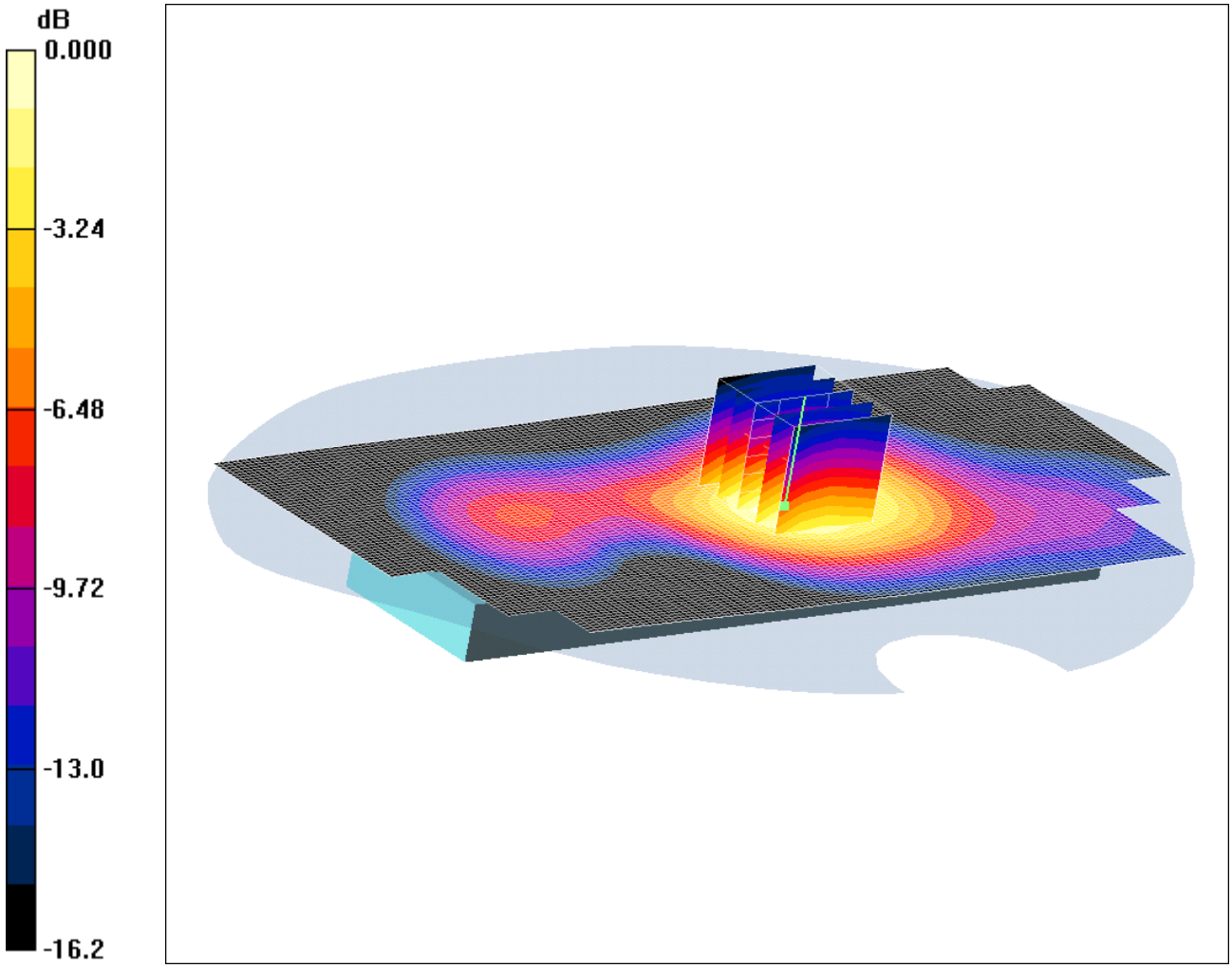


0 dB = 0.095mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.5 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Front of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.102 mW/g
Front of EUT Facing Phantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.98 V/m; Power Drift = -0.335 dB
Peak SAR (extrapolated) = 0.143 W/kg
SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.055 mW/g
Maximum value of SAR (measured) = 0.095 mW/g

SCN/74681JD09/018: Rear of EUT Facing Phantom GPRS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153

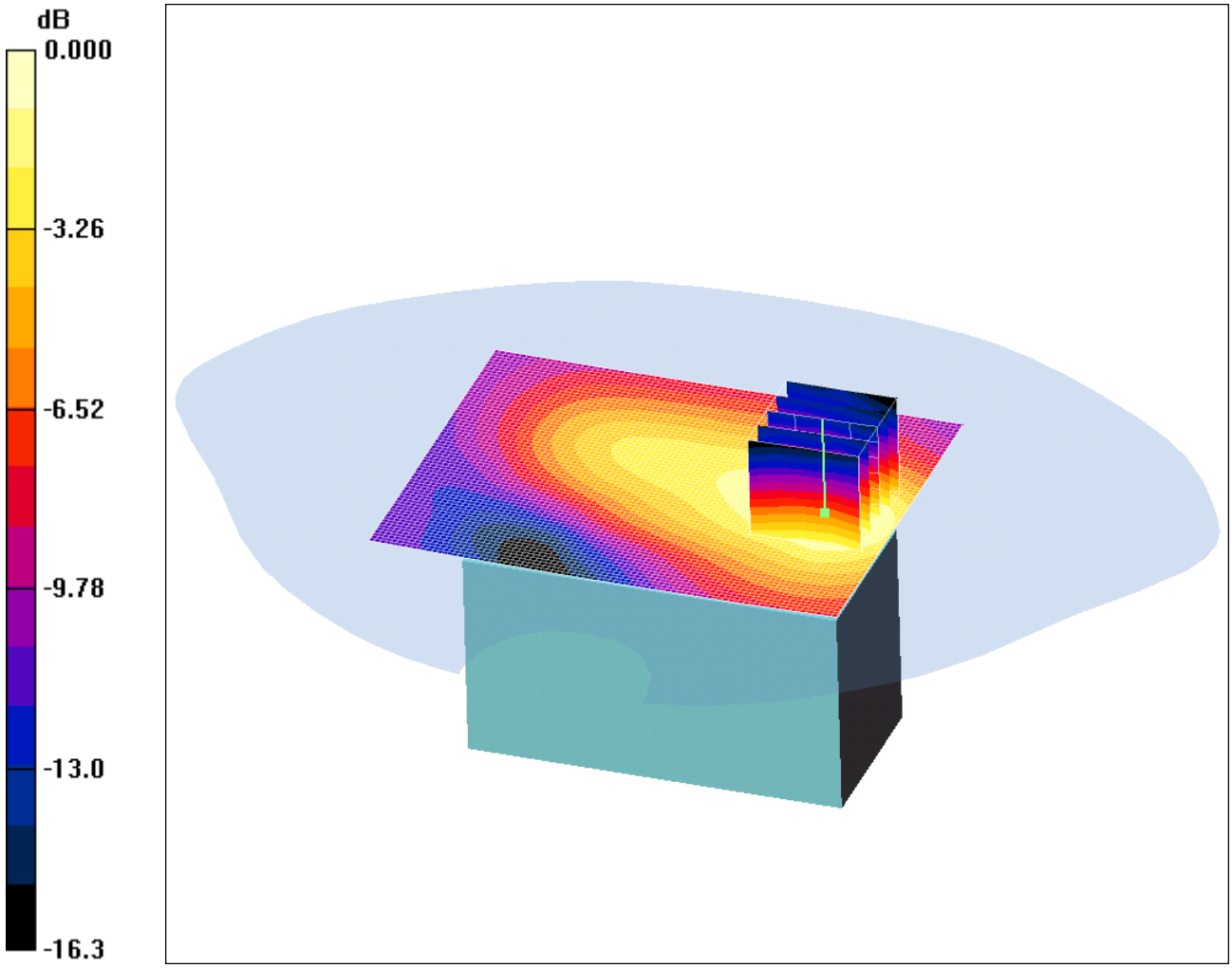


0 dB = 0.418mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.5 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.434 mW/g
Rear of EUT Facing Pantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.2 V/m; Power Drift = -0.181 dB
Peak SAR (extrapolated) = 0.623 W/kg
SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.226 mW/g
Maximum value of SAR (measured) = 0.418 mW/g

SCN/74681JD09/019: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad PCS CH660
Date: 03/03/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153

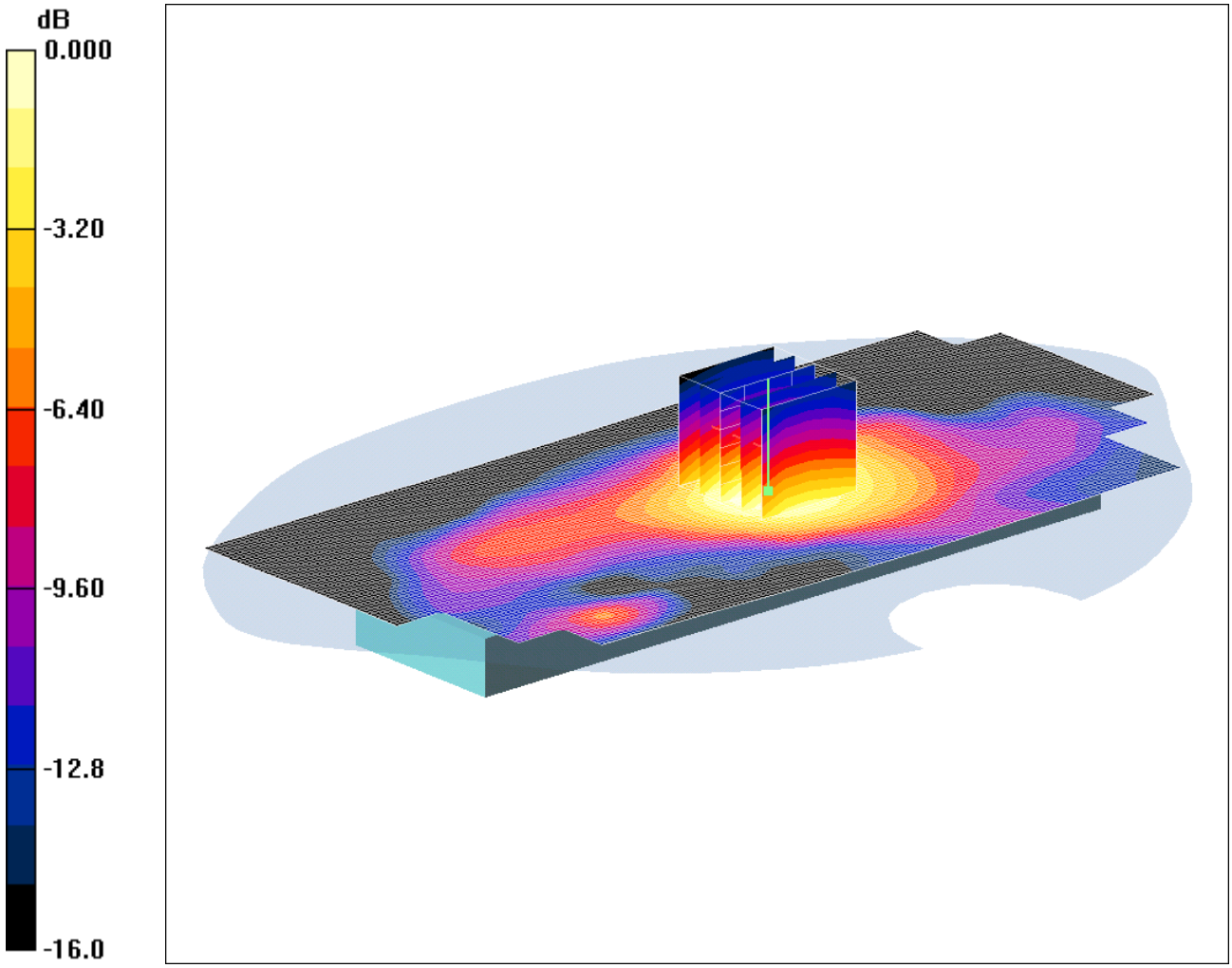


0 dB = 0.124mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.5 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - Middle 2/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.124 mW/g
Rear of EUT Facing Phantom - Middle 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.54 V/m; Power Drift = 0.076 dB
Peak SAR (extrapolated) = 0.189 W/kg
SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.068 mW/g
Maximum value of SAR (measured) = 0.124 mW/g

SCN/74681JD09/020: Rear of EUT Facing Phantom With PHF GPRS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153



0 dB = 0.356mW/g

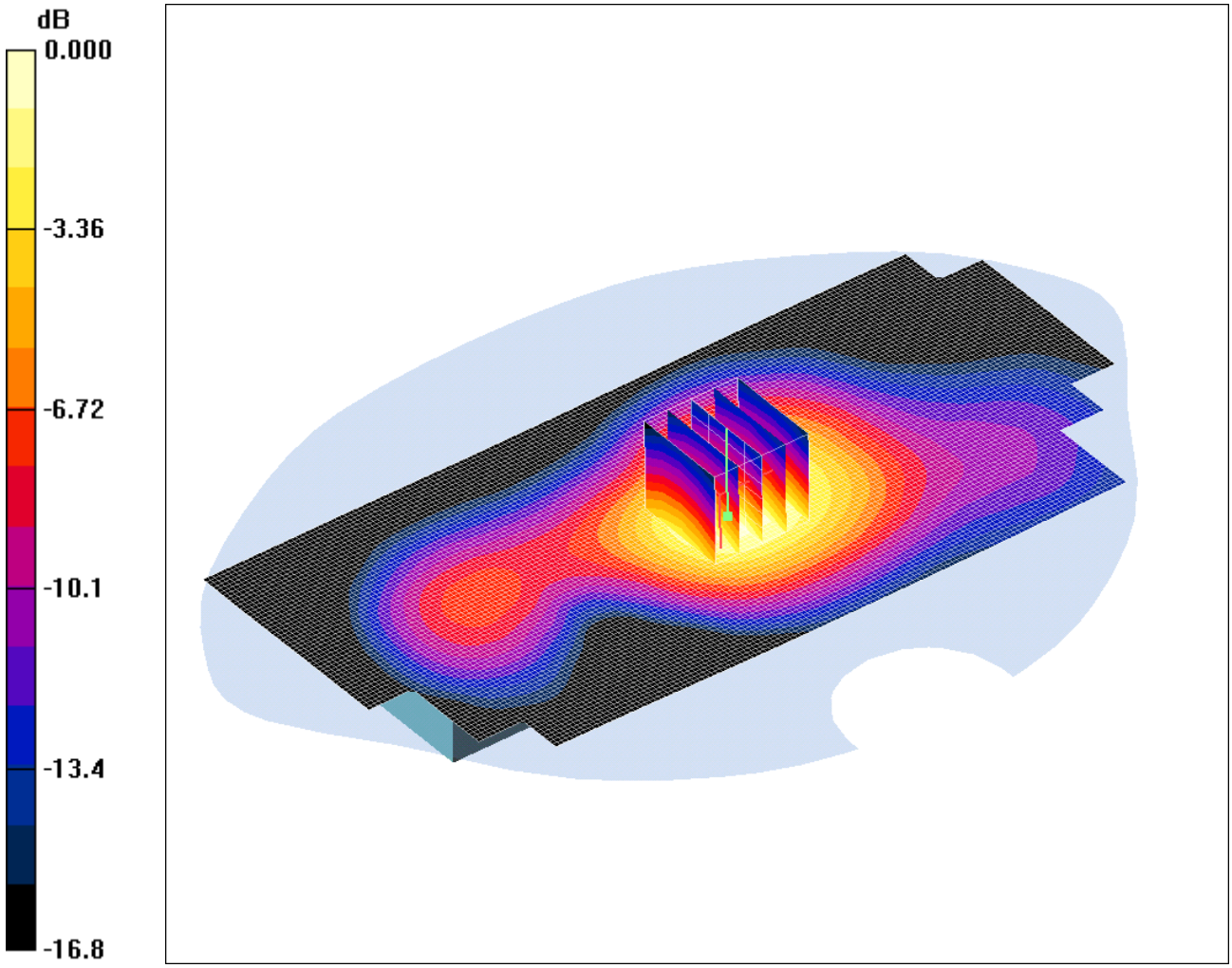
Communication System: GPRS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.5 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.360 mW/g
Rear of EUT Facing Phantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = -0.117 dB
Peak SAR (extrapolated) = 0.547 W/kg
SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 0.356 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/021: Rear of EUT Facing Phantom PCS CH660
Date: 03/03/2009
DUT: Panasonic P-07; Type: P-07A; Serial: 356753020050153

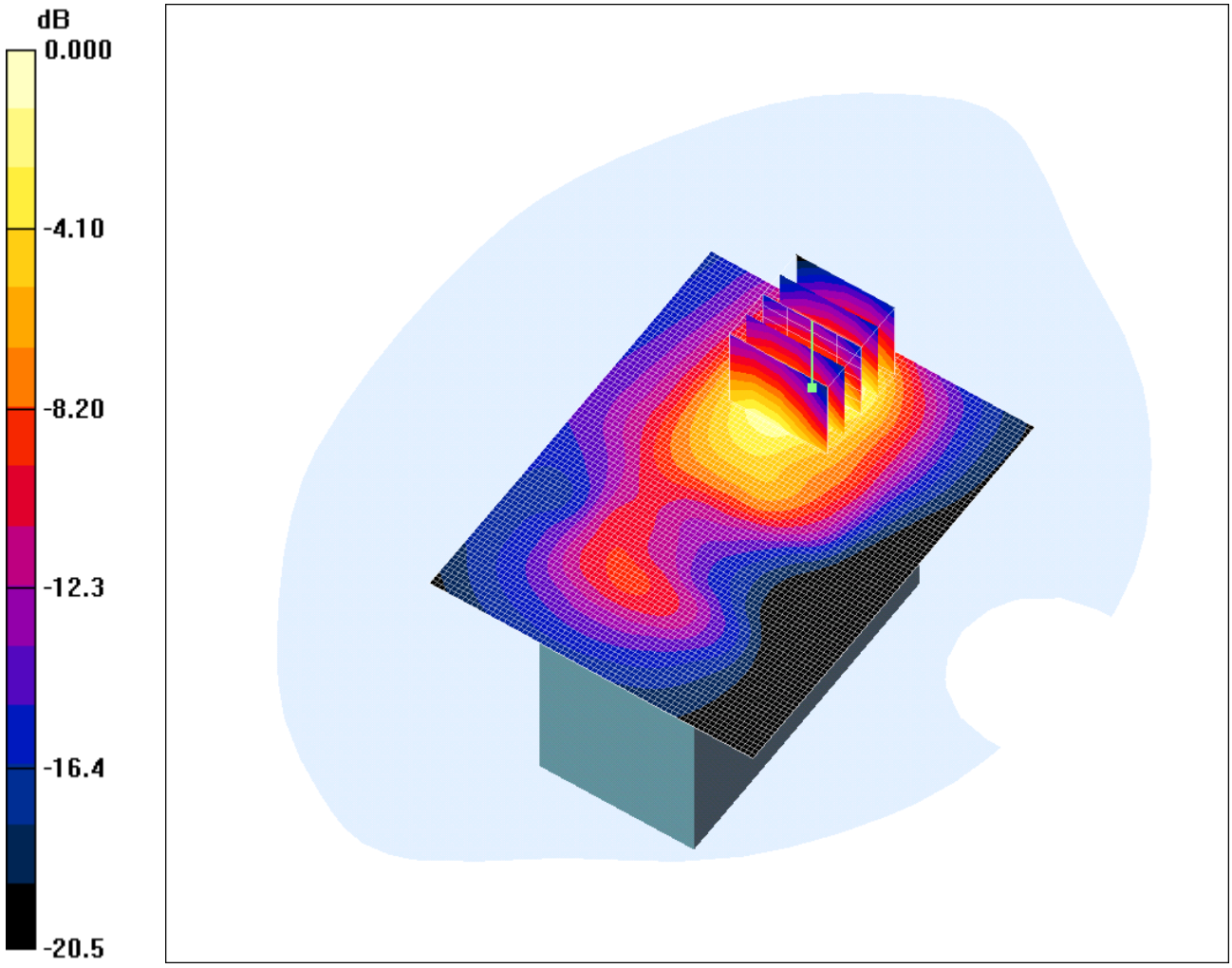


0 dB = 0.237mW/g

Communication System: PCS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:8.3
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.5 mho/m; ε_r = 51; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom/Area Scan (81x171x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.224 mW/g
Rear of EUT Facing Phantom/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.083 dB
Peak SAR (extrapolated) = 0.358 W/kg
SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.127 mW/g
Maximum value of SAR (measured) = 0.237 mW/g

SCN/74681JD09/022: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad 0mm separation PCS CH660. Date: 02/04/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153

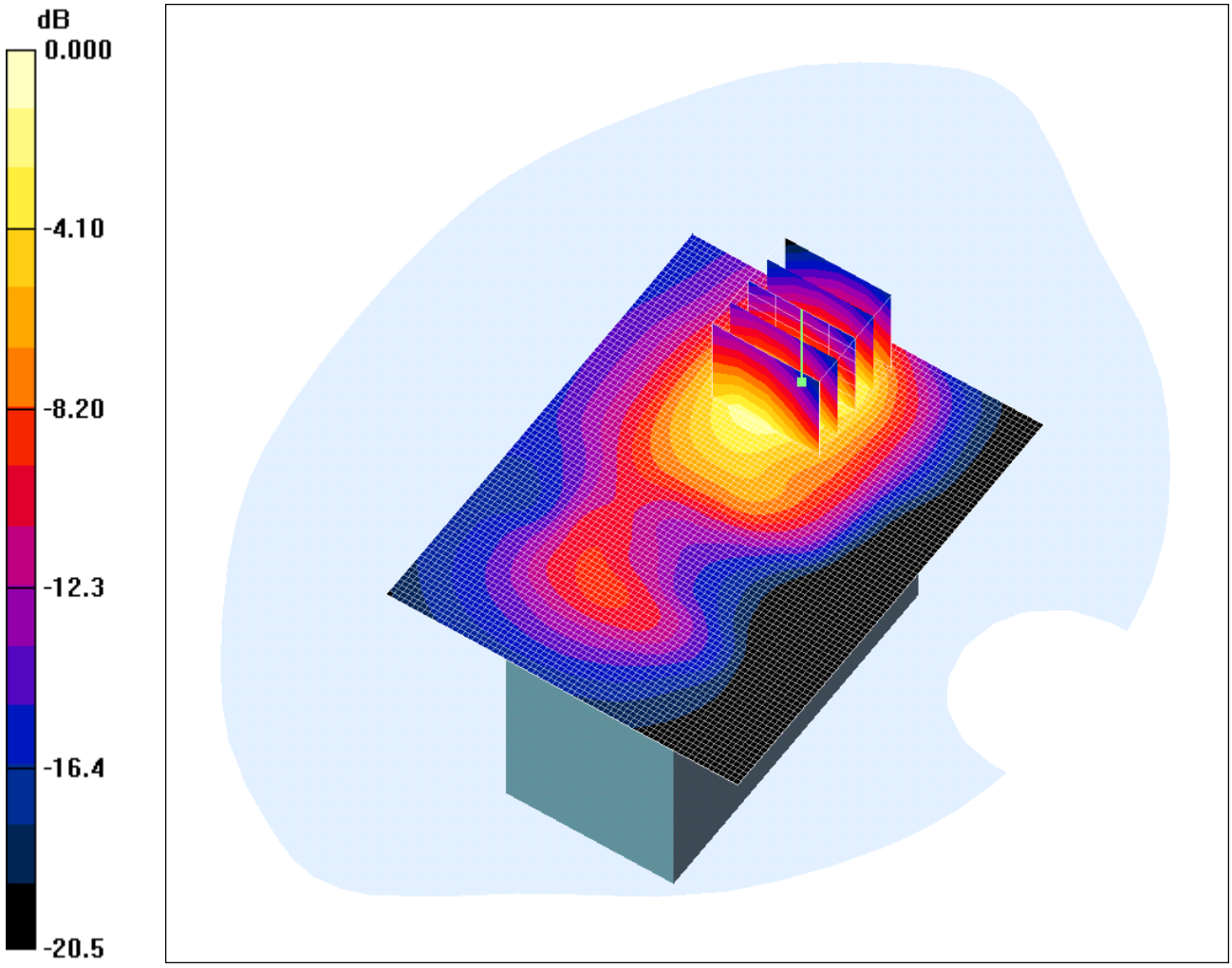


0 dB = 1.40mW/g

Communication System: GPRS 1900; Frequency: 1879.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1879.8 MHz; σ = 1.56 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - Middle/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.47 mW/g
Rear of EUT Facing Phantom - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = 0.222 dB
Peak SAR (extrapolated) = 2.33 W/kg
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.674 mW/g
Maximum value of SAR (measured) = 1.40 mW/g

SCN/74681JD09/023: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad 0mm separation PCS CH512. Date: 02/04/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153

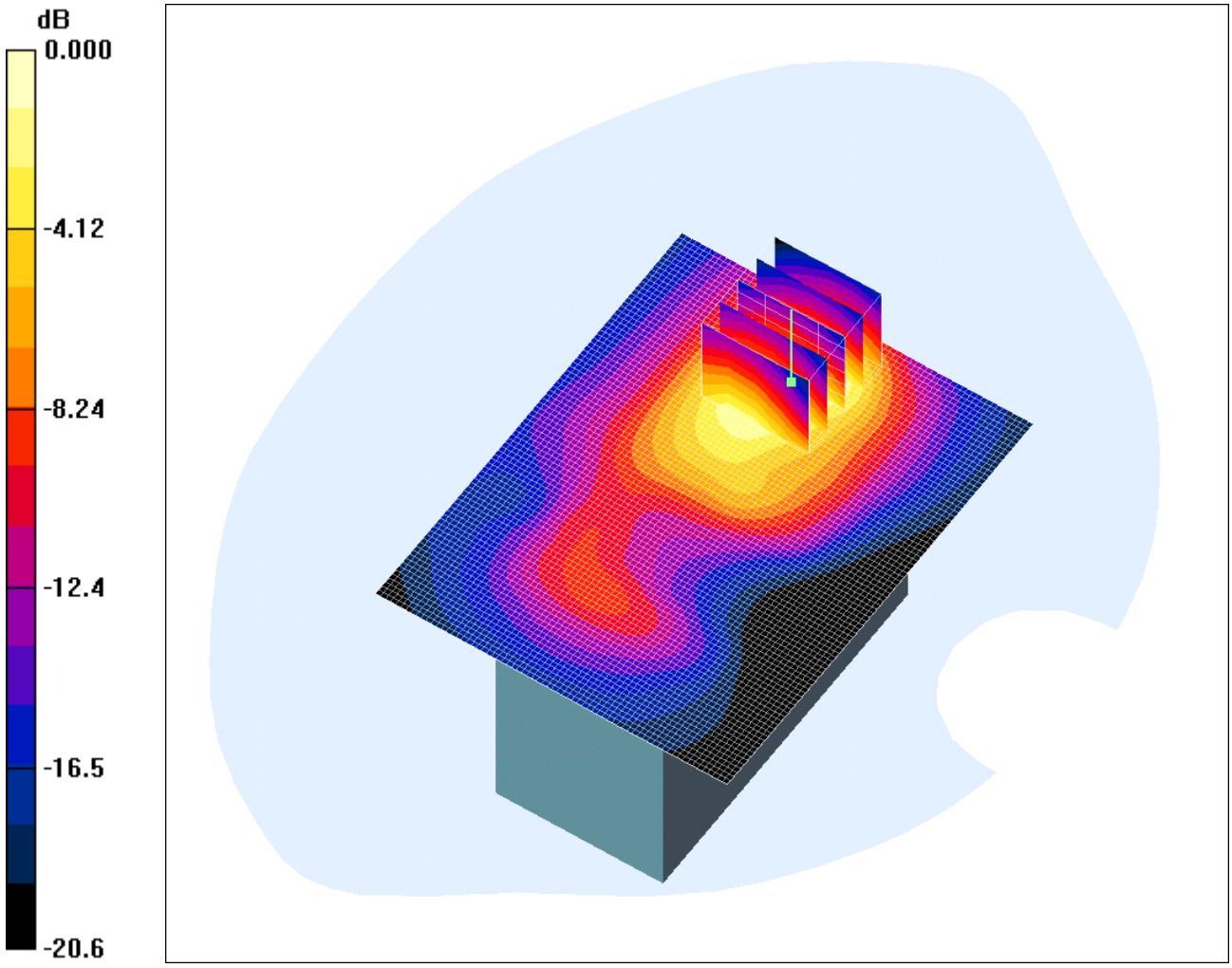


0 dB = 1.38mW/g

Communication System: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.53 mho/m; ε_r = 53.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - Low/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.47 mW/g
Rear of EUT Facing Phantom - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = 0.089 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.669 mW/g
Maximum value of SAR (measured) = 1.38 mW/g

SCN/74681JD09/024: Rear of EUT Facing Phantom With Display 90 Degrees to Keypad 0mm separation PCS CH810. Date: 02/04/2009
DUT: Panasonic O-07; Type: P-07A; Serial: 356753020050153

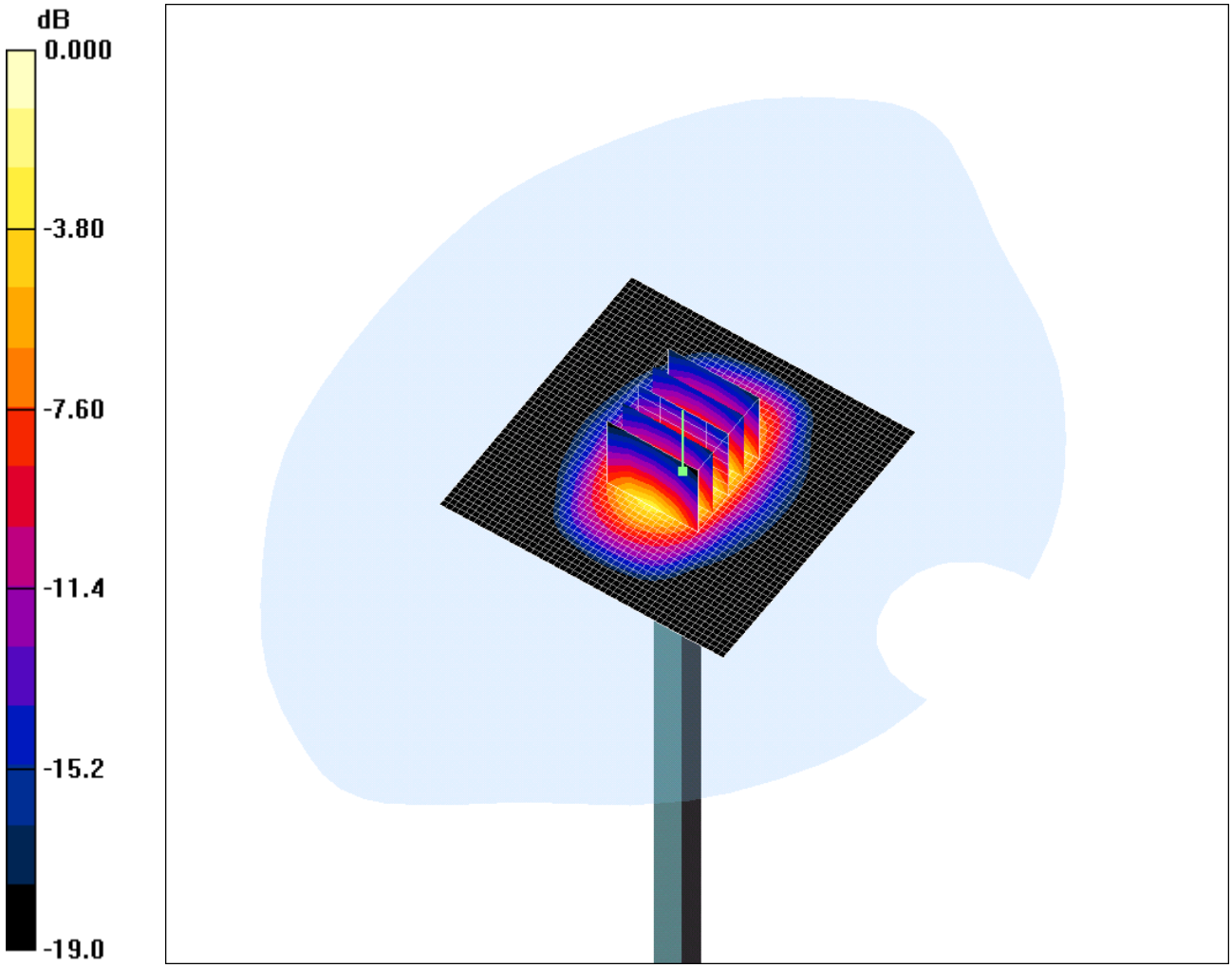


0 dB = 1.35mW/g

Communication System: GPRS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4
Medium: 1900 MHz MSL Medium parameters used (interpolated): f = 1909.8 MHz; σ = 1.59 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Rear of EUT Facing Phantom - High/Area Scan (71x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.47 mW/g
Rear of EUT Facing Phantom - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.9 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.654 mW/g
Maximum value of SAR (measured) = 1.35 mW/g

SCN/74681JD09/025: System Performance Check 1900MHz Body 03 03 08
Date: 03/03/2009
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



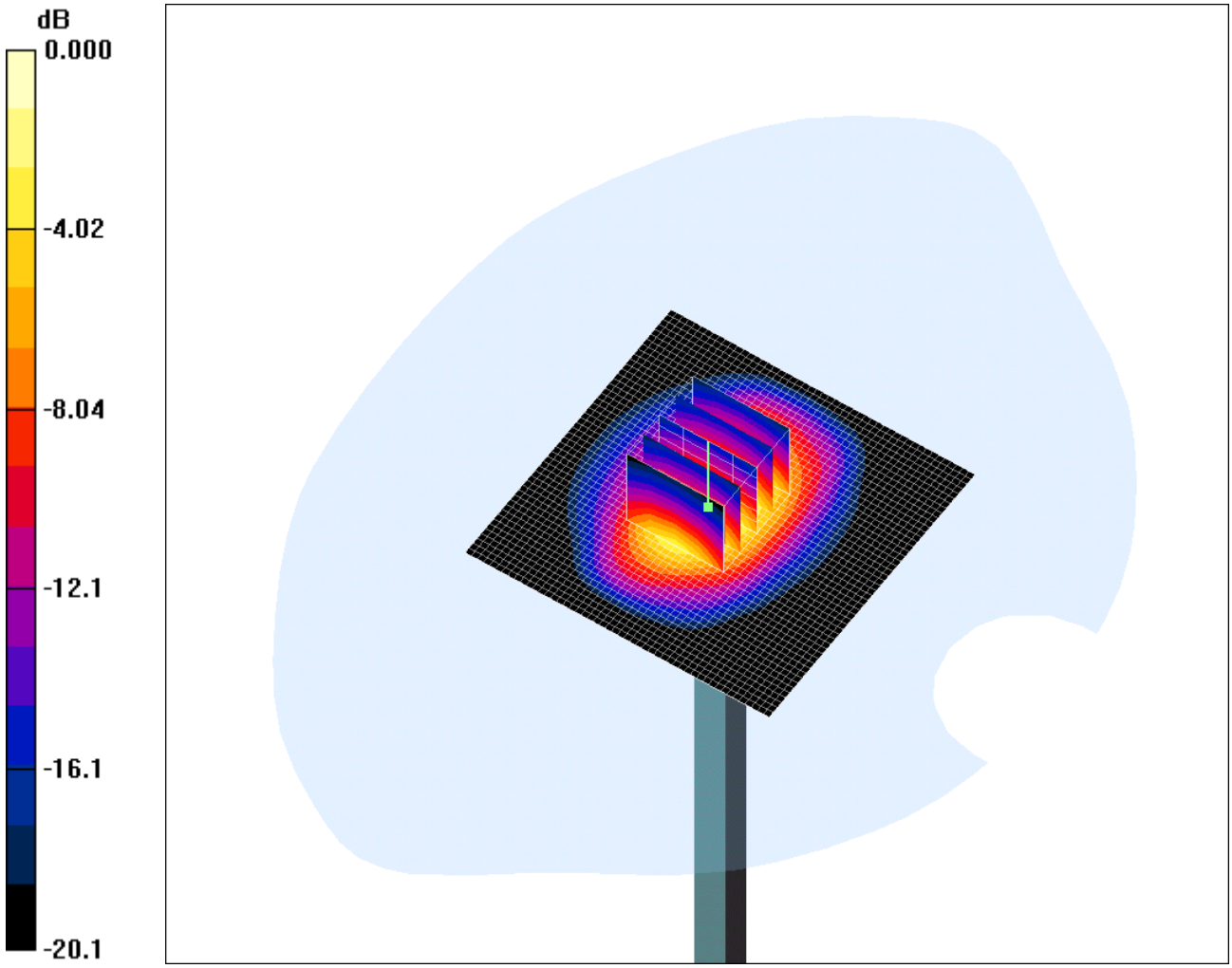
0 dB = 11.1mW/g

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: 1900 MHz MSL Medium parameters used: f = 1900 MHz; σ = 1.52 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
d=15mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 14.1 mW/g
d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 84.4 V/m; Power Drift = 0.095 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 9.88 mW/g; SAR(10 g) = 4.97 mW/g
Maximum value of SAR (measured) = 11.1 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/026: System Performance Check 1900MHz Head 03 03 09
Date: 03/03/2009
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 10.4mW/g

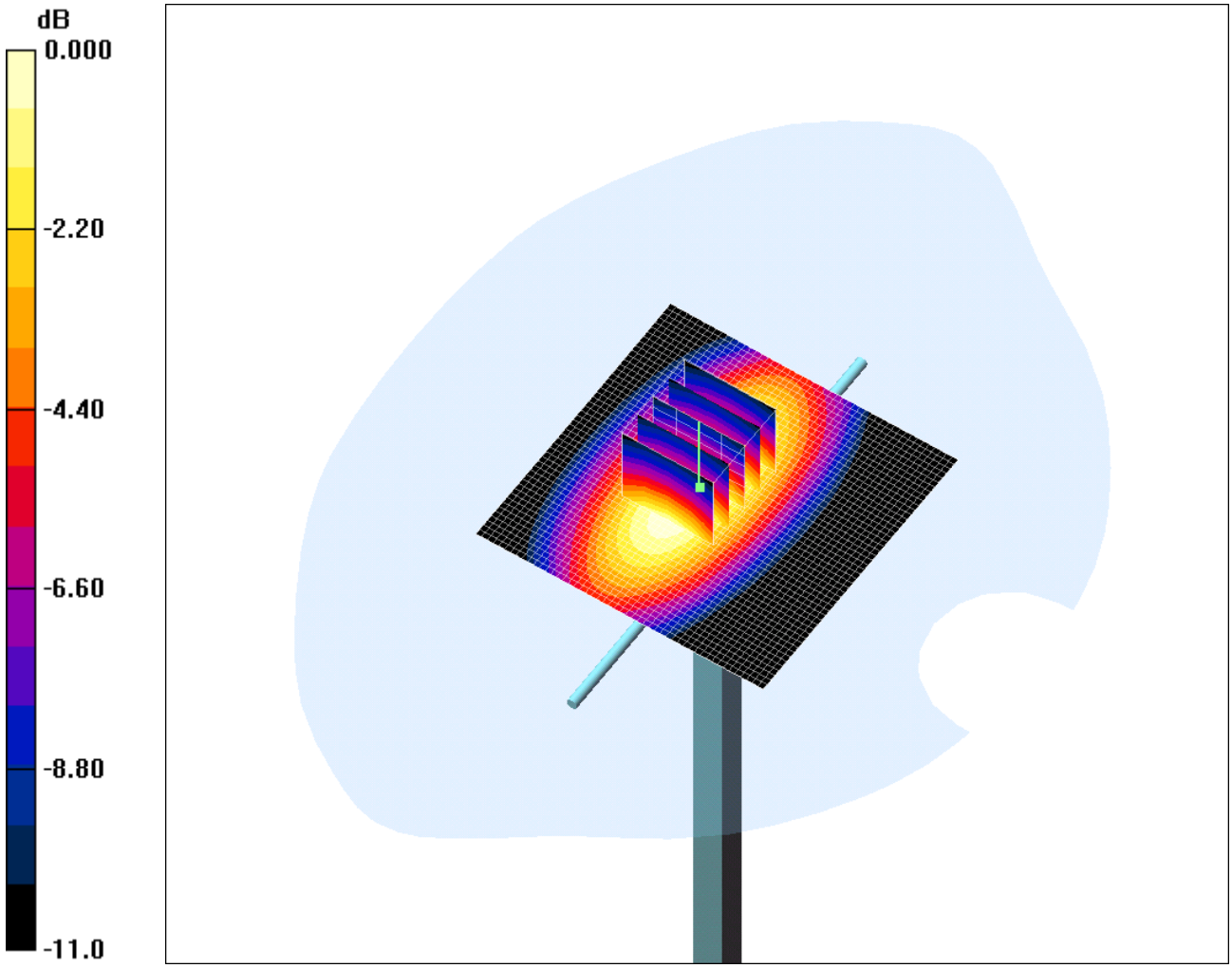
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: 1900 MHz HSL Medium parameters used: f = 1900 MHz; σ = 1.46 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.83, 8.83, 8.83); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=15mm, Pin=250mW 2/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 12.8 mW/g
d=15mm, Pin=250mW 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 79.7 V/m; Power Drift = 0.017 dB
Peak SAR (extrapolated) = 18.5 W/kg
SAR(1 g) = 9.3 mW/g; SAR(10 g) = 4.63 mW/g
Maximum value of SAR (measured) = 10.4 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/027: System Performance Check 900MHz Body 28 02 09
Date: 28/02/2009
DUT: Dipole 900 MHz; Type: D900V2; Serial: SN185



0 dB = 2.91mW/g

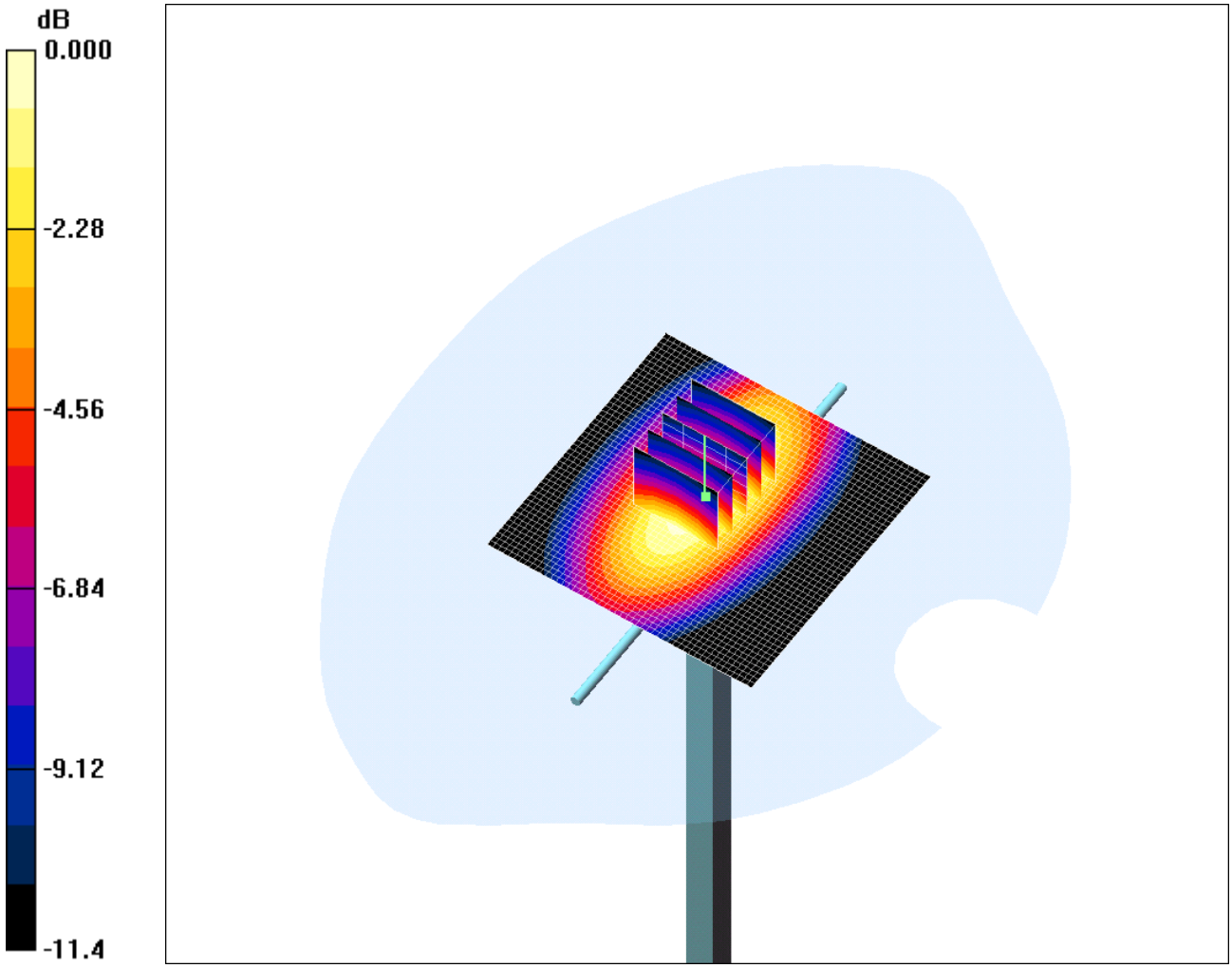
Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used: f = 900 MHz; σ = 1.02 mho/m; ε_r = 53.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=15mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 3.01 mW/g
d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.5 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 4.06 W/kg
SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.73 mW/g
Maximum value of SAR (measured) = 2.91 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/028: System Performance Check 900MHz Head 27 02 09
Date: 27/02/2009
DUT: Dipole 900 MHz; Type: D900V2; Serial: SN185

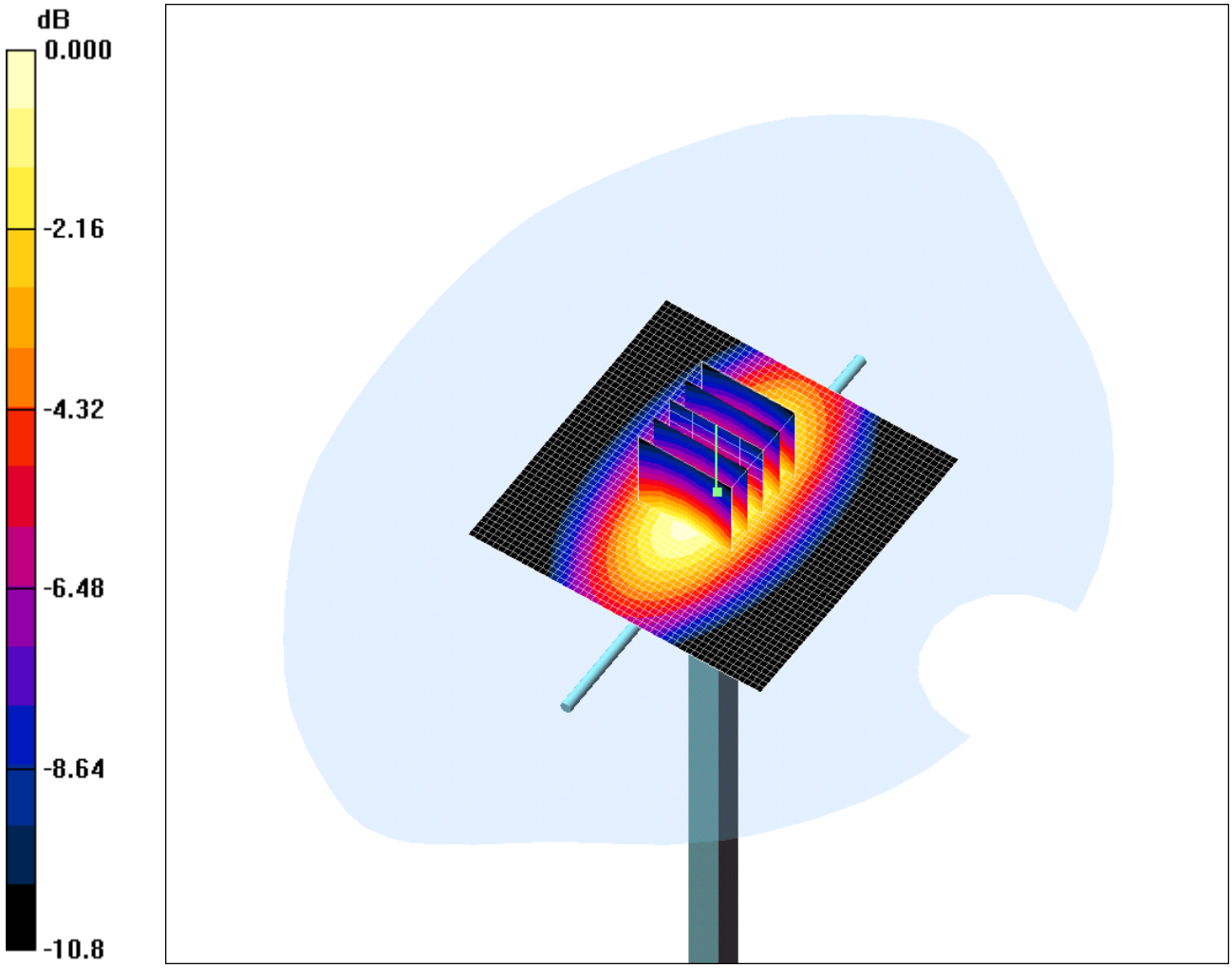


0 dB = 2.93mW/g

Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: 900 MHz HSL Medium parameters used: f = 900 MHz; σ = 0.987 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.14, 10.14, 10.14); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12b; Type: SAM 4.0; Serial: TP:1207
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

d=15mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 2.93 mW/g
d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 52.1 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 4.14 W/kg
SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.72 mW/g
Maximum value of SAR (measured) = 2.93 mW/g

SCN/74681JD09/029: System Performance Check 900MHz Body 02 04 09
Date: 02/04/2009
DUT: Dipole 900 MHz; Type: D900V2; Serial: SN185



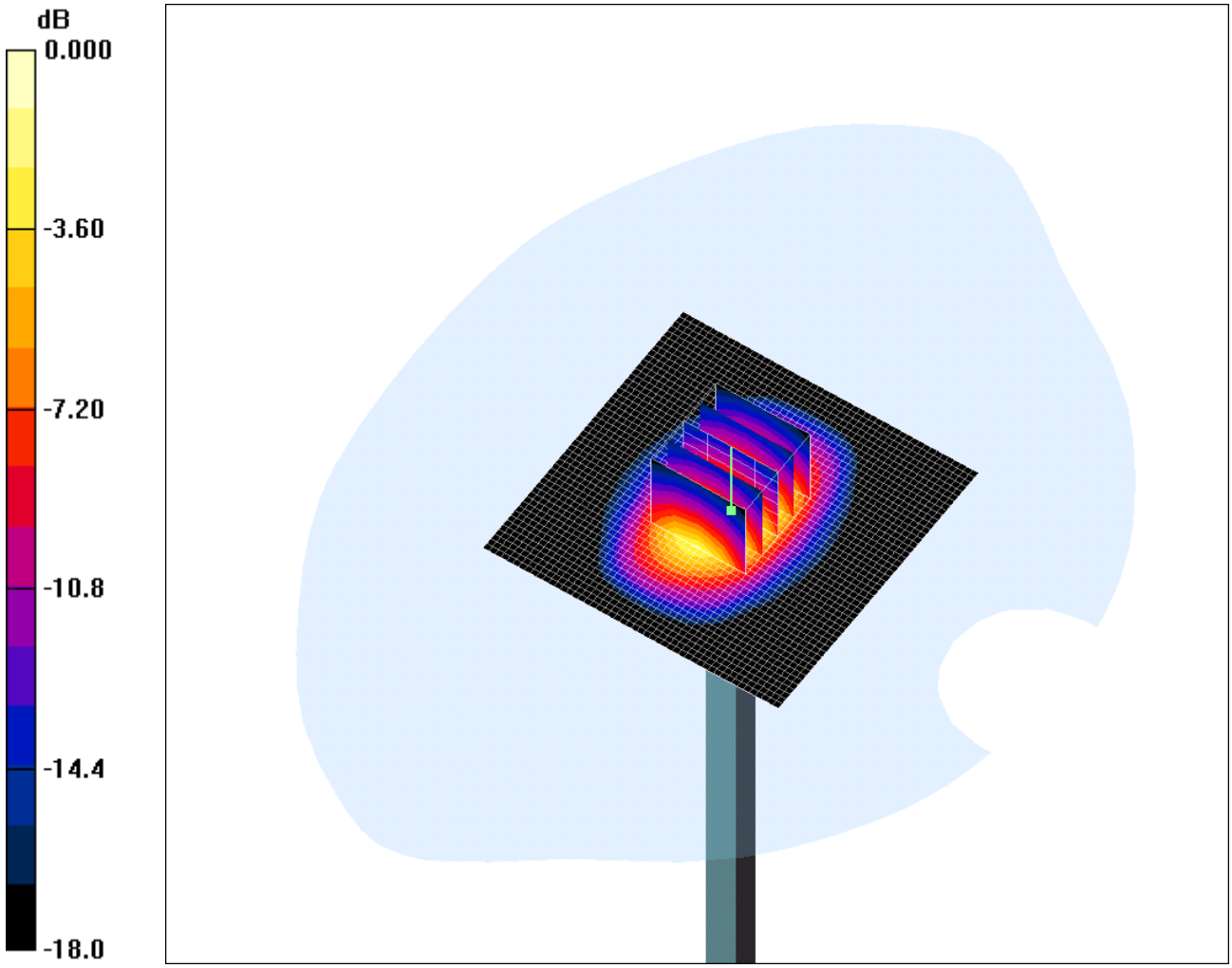
0 dB = 2.97mW/g

Communication System: CW; Frequency: 900 MHz;Duty Cycle: 1:1
Medium: 900 MHz MSL Medium parameters used: f = 900 MHz; σ = 1.05 mho/m; ε_r = 53.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(10.21, 10.21, 10.21); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
d=15mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 3.04 mW/g
d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.1 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 4.14 W/kg
SAR(1 g) = 2.74 mW/g; SAR(10 g) = 1.78 mW/g
Maximum value of SAR (measured) = 2.97 mW/g

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

SCN/74681JD09/030: System Performance Check 1900MHz Body 02 04 09
Date: 02/04/2009
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN540



0 dB = 11.0mW/g

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: 1900 MHz MSL Medium parameters used: f = 1900 MHz; σ = 1.58 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: EX3DV3 - SN3508; ConvF(8.29, 8.29, 8.29); Calibrated: 24/06/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn394; Calibrated: 25/06/2008
- Phantom: SAM 12a; Type: SAM 4.0; Serial: TP:1193
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176
d=15mm, Pin=250mW/Area Scan (51x51x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 14.3 mW/g
d=15mm, Pin=250mW/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 82.8 V/m; Power Drift = 0.057 dB
Peak SAR (extrapolated) = 18.3 W/kg
SAR(1 g) = 9.78 mW/g; SAR(10 g) = 4.99 mW/g
Maximum value of SAR (measured) = 11.0 mW/g

Appendix 5. Validation of System

Prior to the assessment, the system was verified in the flat region of the phantom.
900 MHz and 1900 MHz dipole was used. A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of ±5% for the 900 MHz and 1900 MHz dipole. The applicable verification (normalised to 1 Watt).

Date: 27/02/2009

Validation Dipole and Serial Number: D900V2 SN:185

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Head	900	24.0 ºC	24.0 ºC	ε_r	41.50	42.55	2.54	5.00
				σ	0.97	0.99	1.64	5.00
				1g SAR	10.60	10.76	1.15	5.00
				10g SAR	6.84	6.88	0.58	5.00

Date: 28/02/2009

Validation Dipole and Serial Number:D900V2 SN:185

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	900	24.0 ºC	24.0 ºC	ε_r	55.00	53.37	-2.96	5.00
				σ	1.05	1.02	-3.18	5.00
				1g SAR	10.50	10.76	2.47	5.00
				10g SAR	6.89	6.92	0.43	5.00

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

Date: 03/03/2009

Validation Dipole and Serial Number: D1900V2: SN:540

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Head	1900	25.0 ºC	24.0 ºC	ε_r	40.00	40.34	0.85	5.00
				σ	1.40	1.46	4.28	5.00
				1g SAR	36.10	37.20	3.05	5.00
				10g SAR	19.30	18.52	-4.04	5.00

Date: 03/03/2009

Validation Dipole and Serial Number: D1900V2: SN:540

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	1900	25.0 ºC	24.0 ºC	ε_r	53.30	50.89	-4.52	5.00
				σ	1.52	1.52	0.05	5.00
				1g SAR	38.00	39.52	4.00	5.00
				10g SAR	20.70	19.88	-3.96	5.00

Test of: NTT docomo P-07A

To: OET Bulletin 65 Supplement C: (2001-01)

Date: 02/04/2009

Validation Dipole and Serial Number: D900V2: SN:185

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	900	24.0 ºC	24.0 ºC	ε_r	55.00	53.40	-2.91	5.00
				σ	1.05	1.04	-0.60	5.00
				1g SAR	10.50	10.96	4.38	5.00
				10g SAR	6.89	7.12	3.34	5.00

Date: 02/04/2009

Validation Dipole and Serial Number: D1900V2:SN:540

Simulant	Frequency (MHz)	Room Temperature	Liquid Temperature	Parameters	Target Value	Measured Value	Deviation (%)	Limit (%)
Body	1900	25.0 ºC	24.0 ºC	ε_r	53.30	53.18	-0.23	5.00
				σ	1.52	1.58	4.06	5.00
				1g SAR	38.00	39.12	2.95	5.00
				10g SAR	20.70	19.96	-3.57	5.00

Appendix 6. Simulated Tissues

The body mixture consists of water and glycol. Visual inspection is made to ensure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.

Ingredient	Frequency
	1800/1900 MHz Body
De-Ionised Water	69.79%
Diglycol Butyl Ether (DGBE)	30.00%
Salt	0.20%

Ingredient	Frequency
	1800/1900 MHz Head
De-Ionised Water	55.41%
Diglycol Butyl Ether (DGBE)	44.51%
Salt	0.08%

Ingredient	Frequency
	835/850/900 MHz Body
De-Ionised Water	50.75%
Sugar	48.21%
Salt	0.94%
Kathon	0.10%

Ingredient	Frequency
	835/850/900 MHz Head
Propanediol	64.81%
De-Ionised Water	34.40%
Salt	0.79%

Appendix 7. DASY4 System Details

A.7.1. DASY4 SAR Measurement System

RFI Global Services Ltd, SAR measurement facility utilises the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 system is comprised of the robot controller, computer, near-field probe, probe alignment sensor, and the SAM phantom containing brain or muscle equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller; teach pendant (Joystick), and remote control. This is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. The data acquisition electronics (DAE) performs signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection etc. The DAE is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE3 utilises a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching mulitplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

A.7.2. DASY4 SAR System Specifications

Robot System

Positioner:	Stäubli Unimation Corp. Robot Model: RX90L
Repeatability:	0.025 mm
No. of Axis:	6
Serial Number:	F00/SD89A1/A/01
Reach:	1185 mm
Payload:	3.5 kg
Control Unit:	CS7
Programming Language:	V+

Data Acquisition Electronic (DAE) System

Serial Number:	DAE3 SN:394

PC Controller

PC:	Dell Precision 340
Operating System:	Windows 2000
Data Card:	DASY4 Measurement Server
Serial Number:	1080

Data Converter

Features:	Signal Amplifier, multiplexer, A/D converted and control logic.
Software:	DASY4 Software
Connecting Lines:	Optical downlink for data and status info. Optical uplink for commands and clock.

PC Interface Card

Function:	24 bit (64 MHz) DSP for real time processing Link to DAE3 16 nit A/D converter for surface detection system serial link to robot direct emergency stop output for robot.

DASY4 SAR System Specifications (Continued)

E-Field Probe

Model:	EX3DV3
Serial No:	3508
Construction:	Triangular core
Frequency:	10 MHz to >6 GHz
Linearity:	±0.2 dB (30 MHz to 6 GHz)
Probe Length (mm):	330
Probe Diameter (mm):	12
Tip Length (mm):	20
Tip Diameter (mm):	2.5
Sensor X Offset (mm):	1
Sensor Y Offset (mm):	1
Sensor Z Offset (mm):	1

Phantom

Phantom:	SAM Phantom
Shell Material:	Fibreglass
Thickness:	2.0 ±0.1 mm