Plot 1 Date/Time: 11/15/2016 10:58:23 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Rufus; Type: phone; Serial: cuff

Communication System: UID 0, 802.11bgn_100% Duty Cycle (0); Frequency: 2412 MHz
Medium: MBBL1900-3800_Batch 130619-1
Medium parameters used: f = 2412 MHz; σ = 1.985 S/m; ε_r = 53.05; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 21.3C; Medium Temperature: 22.5C; Comments: ;

DASY Configuration:

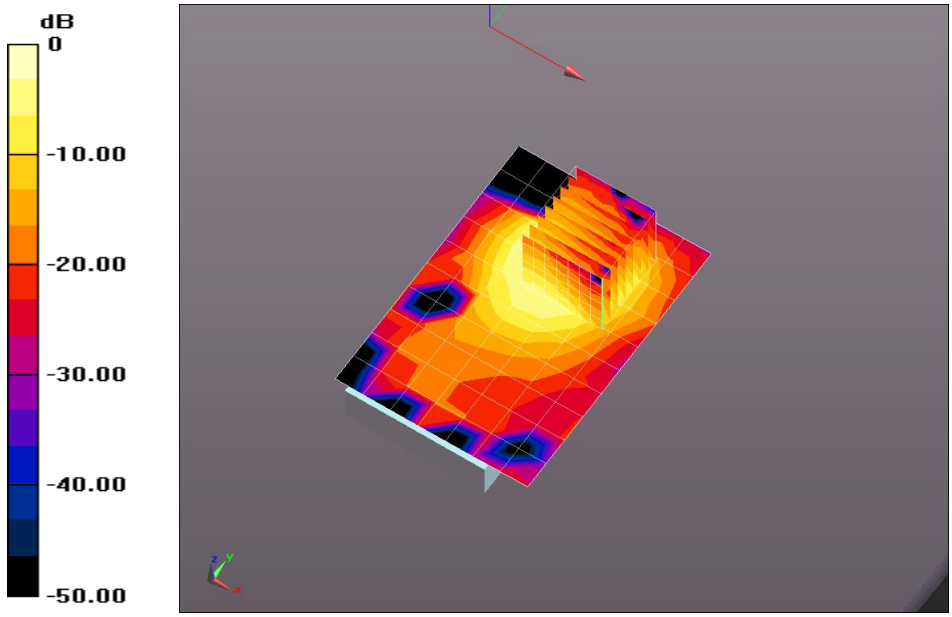
- Probe: ES3DV3 - SN3244; ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092
- DASY52 52.8.8(1222);

Flat-Section/Back 0mm_b_Ch 1/Area Scan (8x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.282 W/kg

Flat-Section/Back 0mm_b_Ch 1/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.46 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.629 W/kg
SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.131 W/kg
Maximum value of SAR (measured) = 0.364 W/kg



0 dB = 0.282 W/kg = -5.50 dBW/kg

Plot 2 Date/Time: 11/17/2016 8:30:08 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Rufus; Type: phone; Serial: cuff

Communication System: UID 0, 802.11bgn_100% Duty Cycle (0); Frequency: 2402 MHz
Medium: MBBL1900-3800_Batch 130619-1
Medium parameters used: f = 2402 MHz; σ = 1.959 S/m; ε_r = 52.438; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 22.4C; Medium Temperature: 21.5C; Comments: ;

DASY Configuration:

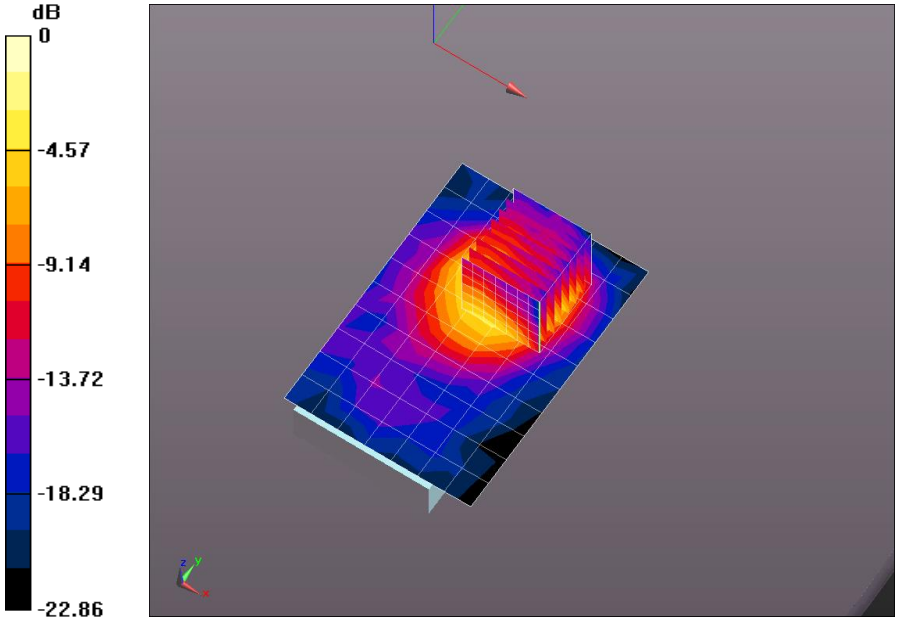
- Probe: ES3DV3 - SN3244; ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092
- DASY52 52.8.8(1222);

Flat-Section 4/Back 0mm_BT_Ch 0/Area Scan (8x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.236 W/kg

Flat-Section 4/Back 0mm_BT_Ch 0/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.24 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.475 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.103 W/kg
Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.236 W/kg = -6.27 dBW/kg

Plot 3 Date/Time: 11/15/2016 3:55:14 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Rufus; Type: phone; Serial: cuff

Communication System: UID 0, 802.11bgn_100% Duty Cycle (0); Frequency: 2422 MHz
Medium: MBBL1900-3800_Batch 130619-1
Medium parameters used: f = 2422 MHz; σ = 1.978 S/m; ε_r = 53.051; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 22C; Medium Temperature: 22.5C; Comments: ;

DASY Configuration:

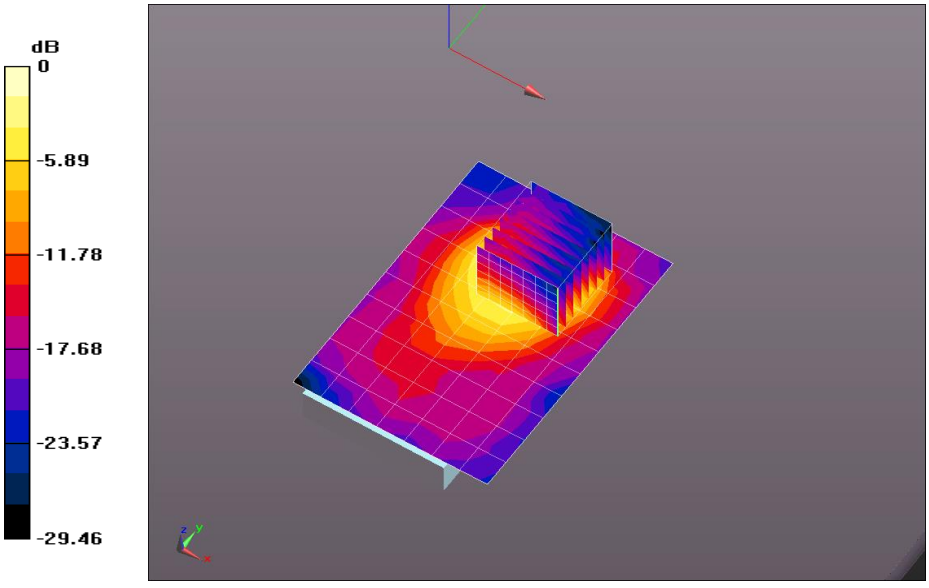
- Probe: ES3DV3 - SN3244; ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092
- DASY52 52.8.8(1222);

Flat-Section/Back 0mm_BW 40MHz_Lower Ch 2/Area Scan (8x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.284 W/kg

Flat-Section/Back 0mm_BW 40MHz_Lower Ch 2/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.55 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.536 W/kg
SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.113 W/kg
Maximum value of SAR (measured) = 0.310 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

Plot 4 Date/Time: 11/18/2016 1:42:15 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Rufus; Type: phone; Serial: cuff
Communication System: UID 0, 802.11bgn_100% Duty Cycle (0); Frequency: 2412 MHz
Medium: HBBL1900-3800_Batch 130605-1
Medium parameters used: f = 2412 MHz; σ = 1.819 S/m; ε_r = 38.62; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 22.7C; Medium Temperature: 22.5C; Comments: ;

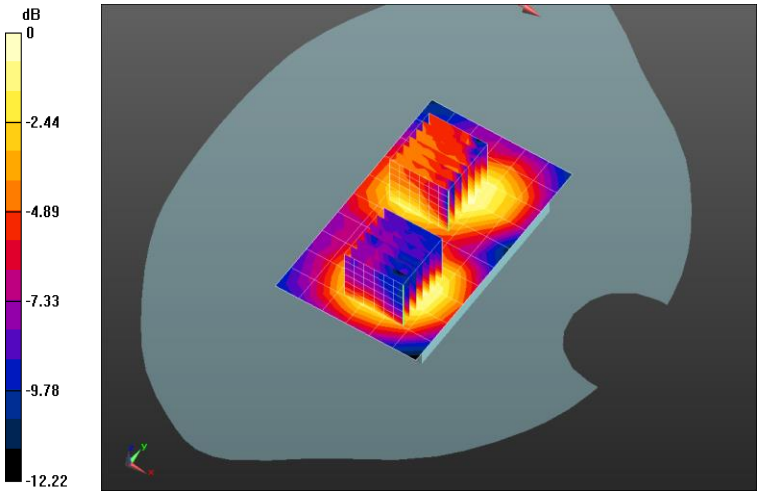
DASY Configuration:

- Probe: ES3DV3 - SN3244; ConvF(4.63, 4.63, 4.63); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

Flat-Section 3/Front 10mm_b_Ch 1/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0422 W/kg

Flat-Section 3/Front 10mm_b_Ch 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.102 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.0520 W/kg
SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.019 W/kg
Maximum value of SAR (measured) = 0.0362 W/kg

Flat-Section 3/Front 10mm_b_Ch 1/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.102 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.0570 W/kg
SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.022 W/kg
Maximum value of SAR (measured) = 0.0401 W/kg



0 dB = 0.0422 W/kg = -13.74 dBW/kg

Plot 5 Date/Time: 11/18/2016 2:31:36 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Rufus; Type: phone; Serial: cuff
Communication System: UID 0, 802.11bgn_100% Duty Cycle (0); Frequency: 2402 MHz
Medium: HBBL1900-3800_Batch 130605-1
Medium parameters used: f = 2402 MHz; σ = 1.809 S/m; ε_r = 38.649; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 23.5C; Medium Temperature: 22.5C; Comments: ;

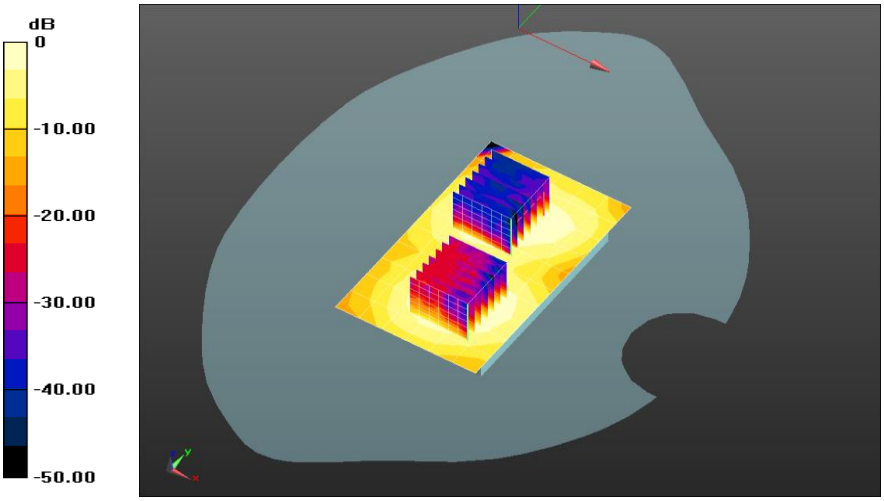
DASY Configuration:

- Probe: ES3DV3 - SN3244; ConvF(4.63, 4.63, 4.63); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

Flat-Section 3/Front 10mm_BT_ Ch 0/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0293 W/kg

Flat-Section 3/Front 10mm_BT_ Ch 0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.246 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.0470 W/kg
SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.016 W/kg
Maximum value of SAR (measured) = 0.0325 W/kg

Flat-Section 3/Front 10mm_BT_ Ch 0/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.246 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.0490 W/kg
SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.018 W/kg
Maximum value of SAR (measured) = 0.0339 W/kg



0 dB = 0.0293 W/kg = -15.34 dBW/kg

Plot 6 Date/Time: 11/16/2016 9:09:34 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Rufus; Type: phone; Serial: cuff

Communication System: UID 0, 802.11bgn_100% Duty Cycle (0); Frequency: 2422 MHz
Medium: HBBL1900-3800_Batch 130605-1
Medium parameters used: f = 2422 MHz; σ = 1.823 S/m; ε_r = 37.588; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 23.6C; Medium Temperature: 21.6C; Comments: ;

DASY Configuration:

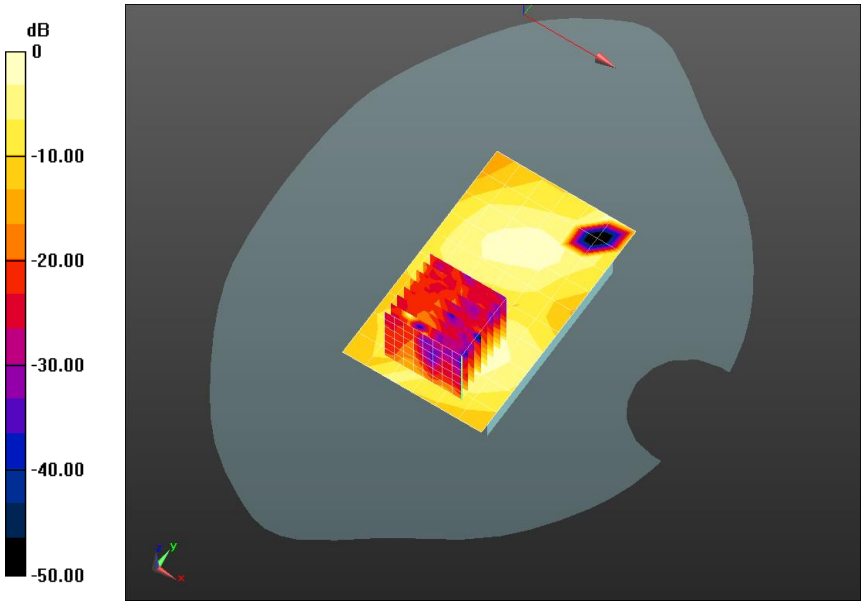
- Probe: ES3DV3 - SN3244; ConvF(4.63, 4.63, 4.63); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

Flat-Section 2/Front 10mm_BW 40MHz_Lower Ch 2/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0361 W/kg

Flat-Section 2/Front 10mm_BW 40MHz_Lower Ch 2/Zoom Scan (9x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.899 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.0410 W/kg
SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.011 W/kg
Maximum value of SAR (measured) = 0.0407 W/kg



0 dB = 0.0361 W/kg = -14.43 dBW/kg

Plot 7 Date/Time: 11/15/2016 3:11:27 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Dipole 2450 MHz - D2450V2 - SN859_April 2016; Type: D2450V2; Serial: D2450V2 - SN:859

Communication System: UID 10000, CW; Frequency: 2450 MHz
Medium: HBBL1900-3800_Batch 130605-1
Medium parameters used: f = 2450 MHz; σ = 1.871 S/m; ε_r = 37.456; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.5C; Medium Temperature: 22.5C; Comments: ;

DASY Configuration:

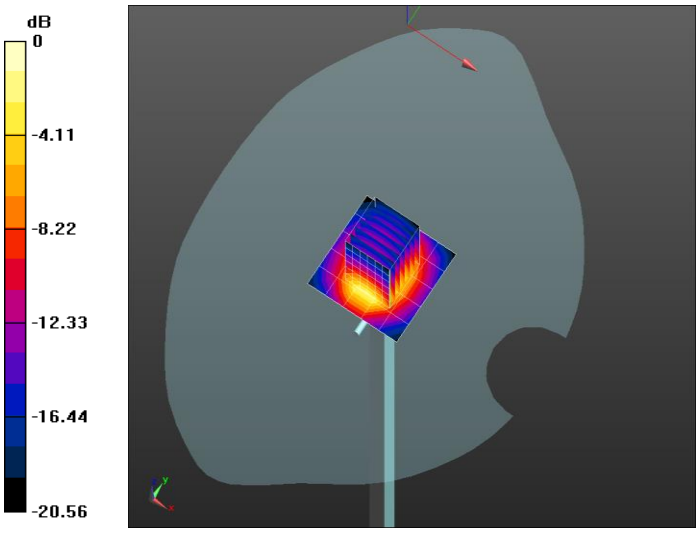
- Probe: ES3DV3 - SN3244; ConvF(4.63, 4.63, 4.63); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

System Performance Check/d=10mm, Pin=0.1W/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 5.95 W/kg

System Performance Check/d=10mm, Pin=0.1W/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 66.50 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 11.7 W/kg
SAR(1 g) = 5.6 W/kg; SAR(10 g) = 2.6 W/kg
Maximum value of SAR (measured) = 7.35 W/kg



0 dB = 5.95 W/kg = 7.74 dBW/kg

Plot 8 Date/Time: 11/17/2016 4:35:46 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Dipole 2450 MHz - D2450V2 - SN859_April 2016; Type: D2450V2; Serial: D2450V2 - SN:859

Communication System: UID 10000, CW; Frequency: 2450 MHz
Medium: HBBL1900-3800_Batch 130605-1
Medium parameters used: f = 2450 MHz; σ = 1.858 S/m; ε_r = 38.496; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 22.5C; Medium Temperature: 22.7C; Comments: ;

DASY Configuration:

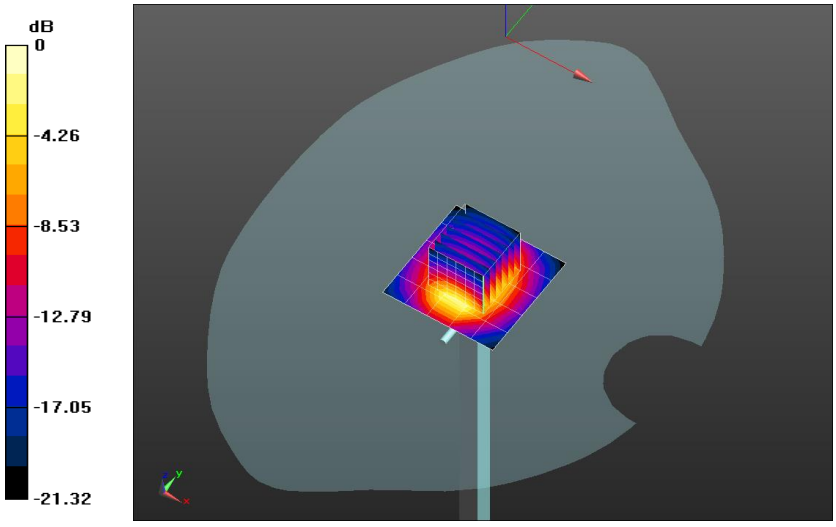
- Probe: ES3DV3 - SN3244; ConvF(4.63, 4.63, 4.63); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

System Performance Check/d=10mm, Pin=0.1W/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 4.60 W/kg

System Performance Check/d=10mm, Pin=0.1W/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 61.34 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 9.90 W/kg
SAR(1 g) = 4.82 W/kg; SAR(10 g) = 2.23 W/kg
Maximum value of SAR (measured) = 6.41 W/kg



0 dB = 4.60 W/kg = 6.63 dBW/kg

Plot 9 Date/Time: 11/15/2016 9:26:37 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Dipole 2450 MHz - D2450V2 - SN859_April 2016; Type: D2450V2; Serial: D2450V2 - SN:859

Communication System: UID 10000, CW; Frequency: 2450 MHz
Medium: MBBL1900-3800_Batch 130619-1
Medium parameters used: f = 2450 MHz; σ = 2.019 S/m; ε_r = 52.91; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.6C; Medium Temperature: 22.5C; Comments: ;

DASY Configuration:

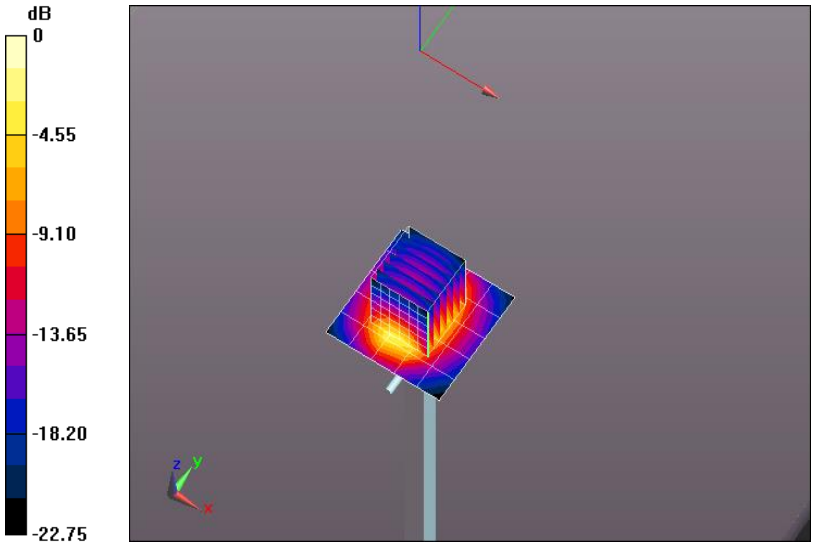
- Probe: ES3DV3 - SN3244; ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092
- DASY52 52.8.8(1222);

System Performance Check/d=10mm, Pin=0.1W/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 5.44 W/kg

System Performance Check/d=10mm, Pin=0.1W/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 58.96 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 10.9 W/kg
SAR(1 g) = 5.3 W/kg; SAR(10 g) = 2.47 W/kg
Maximum value of SAR (measured) = 6.96 W/kg



0 dB = 5.44 W/kg = 7.36 dBW/kg

Plot 10 Date/Time: 11/16/2016 11:36:26 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

DUT: Dipole 2450 MHz - D2450V2 - SN859_April 2016; Type: D2450V2; Serial: D2450V2 - SN:859

Communication System: UID 10000, CW; Frequency: 2450 MHz
Medium: MBBL1900-3800_Batch 130619-1
Medium parameters used: f = 2450 MHz; σ = 2.002 S/m; ε_r = 52.265; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 23.1C; Medium Temperature: 22.2C; Comments: ;

DASY Configuration:

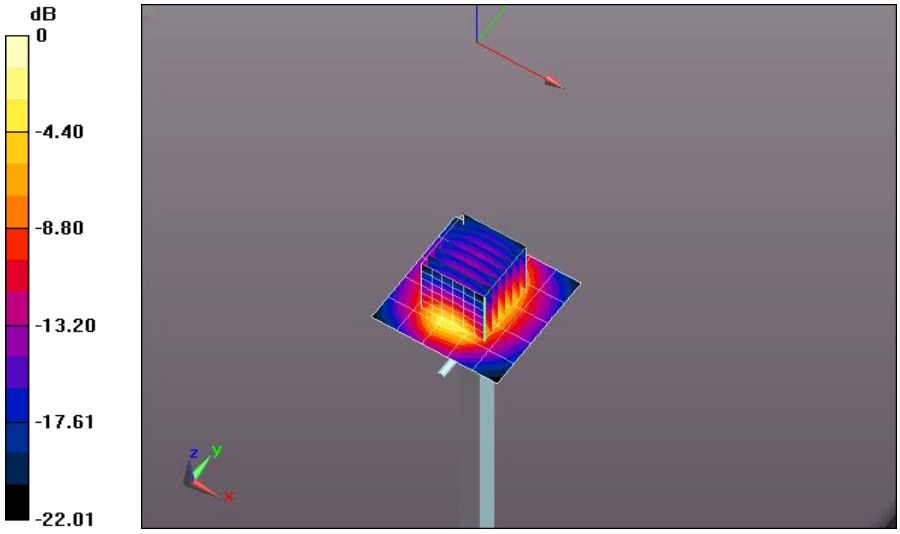
- Probe: ES3DV3 - SN3244; ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092
- DASY52 52.8.8(1222);

System Performance Check/d=10mm, Pin=0.1W/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 4.79 W/kg

System Performance Check/d=10mm, Pin=0.1W/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.54 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 9.88 W/kg
SAR(1 g) = 4.78 W/kg; SAR(10 g) = 2.24 W/kg
Maximum value of SAR (measured) = 6.29 W/kg



0 dB = 4.79 W/kg = 6.81 dBW/kg