

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

## Plot 1

Date/Time: 6/12/2018 10:16:58 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25049**

Communication System: UID 0, LTE-FDD (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 1850 MHz

Medium: MSL1900\_Batch 110615-4

Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.532$  S/m;  $\epsilon_r = 53.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 22.5±C Medium Temperature: 22.5±C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(4.97, 4.97, 4.97); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front; Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 2.16 W/kg

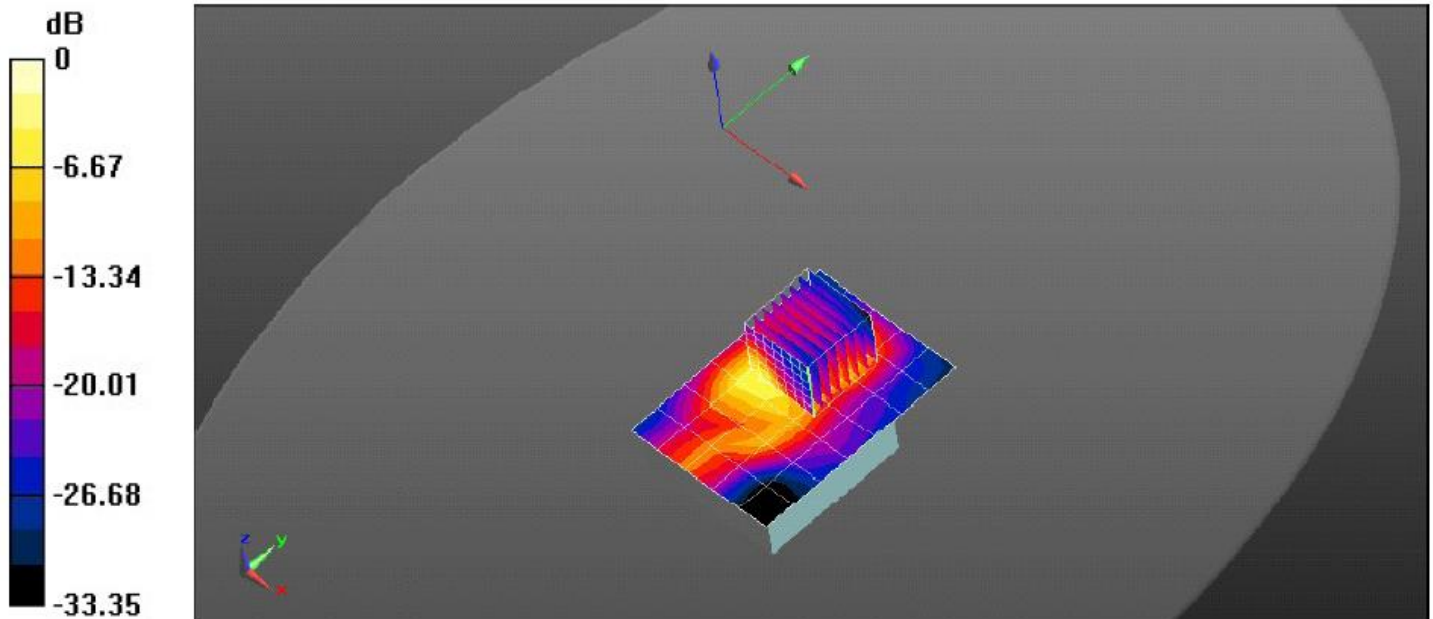
**Flat-Section/Bottom Side 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 14.50 V/m; Power Drift = 0.64 dB

Peak SAR (extrapolated) = 3.17 W/kg

**SAR(1 g) = 1.52 W/kg; SAR(10 g) = 0.702 W/kg**

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 2.16 W/kg = 3.34 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

## Plot 2

Date/Time: 6/14/2018 2:56:05 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25037**

Communication System: UID 0, LTE (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 1880 MHz

Medium: MSL1900\_Batch 110615-4

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.527$  S/m;  $\epsilon_r = 53.288$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 23.3±C Medium Temperature: 21.8±C; Comments:

DASY Configuration:

I Probe: ES3DV3 -SN3323; ConvF(4.97, 4.97, 4.97); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front; Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.75 W/kg

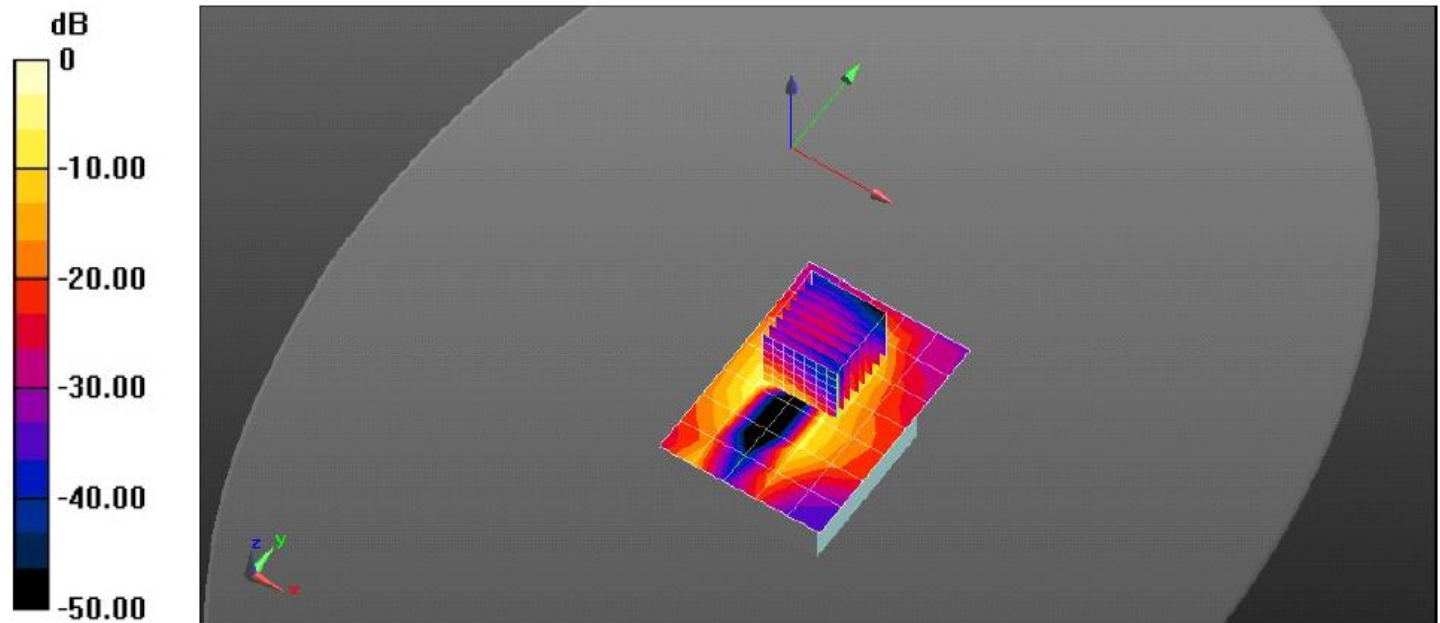
**Flat-Section/Bottom Side 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 18.13 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.11 W/kg

**SAR(1 g) = 1.5 W/kg; SAR(10 g) = 0.670 W/kg**

Maximum value of SAR (measured) = 1.91 W/kg



$$0 \text{ dB} = 1.75 \text{ W/kg} = 2.44 \text{ dBW/kg}$$

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

### Plot 3

Date/Time: 6/12/2018 11:15:46 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25037**

Communication System: UID 0, LTE-FDD (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 1910 MHz

Medium: MSL1900\_Batch 110615-4

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.519$  S/m;  $\epsilon_r = 53.307$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 22.9°C Medium Temperature: 22.5°C; Comments:

DASY Configuration:

I Probe: ES3DV3 -SN3323; ConvF(4.97, 4.97, 4.97); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front; Type: QDOVA001BB; Serial: TP:xxxx

I DASYS2 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.48 W/kg

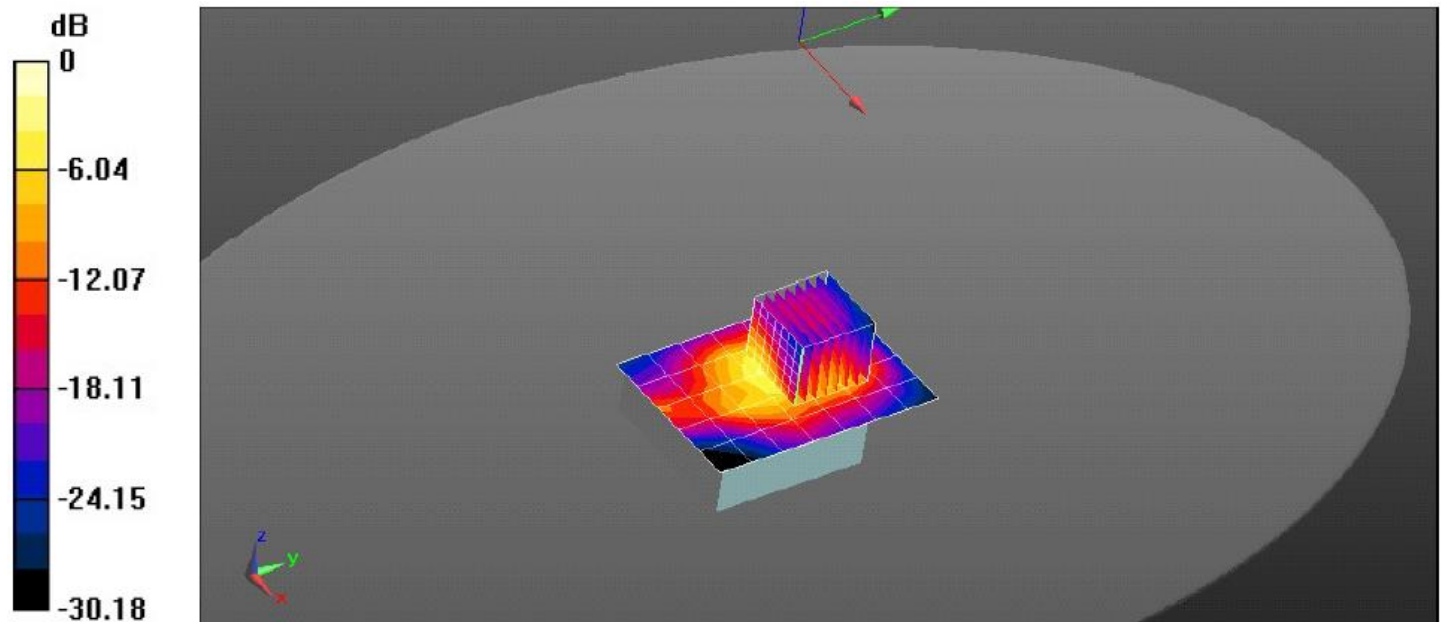
**Flat-Section/Bottom Side 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 20.25 V/m; Power Drift = 0.68 dB

Peak SAR (extrapolated) = 2.97 W/kg

**SAR(1 g) = 1.51 W/kg; SAR(10 g) = 0.705 W/kg**

Maximum value of SAR (measured) = 1.91 W/kg



0 dB = 1.48 W/kg = 1.71 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

#### Plot 4

Date/Time: 6/12/2018 3:22:58 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25037**

Communication System: UID 0, LTE-FDD (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 1710 MHz

Medium: MSL1750\_Batch 100824-2

Medium parameters used (extrapolated):  $f = 1710$  MHz;  $\sigma = 1.415$  S/m;  $\epsilon_r = 54.841$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Cindy Air Temperature: 23.2°C Medium Temperature: 21.3°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(5.15, 5.15, 5.15); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front; Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.47 W/kg

**Flat-Section/Bottom Side 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

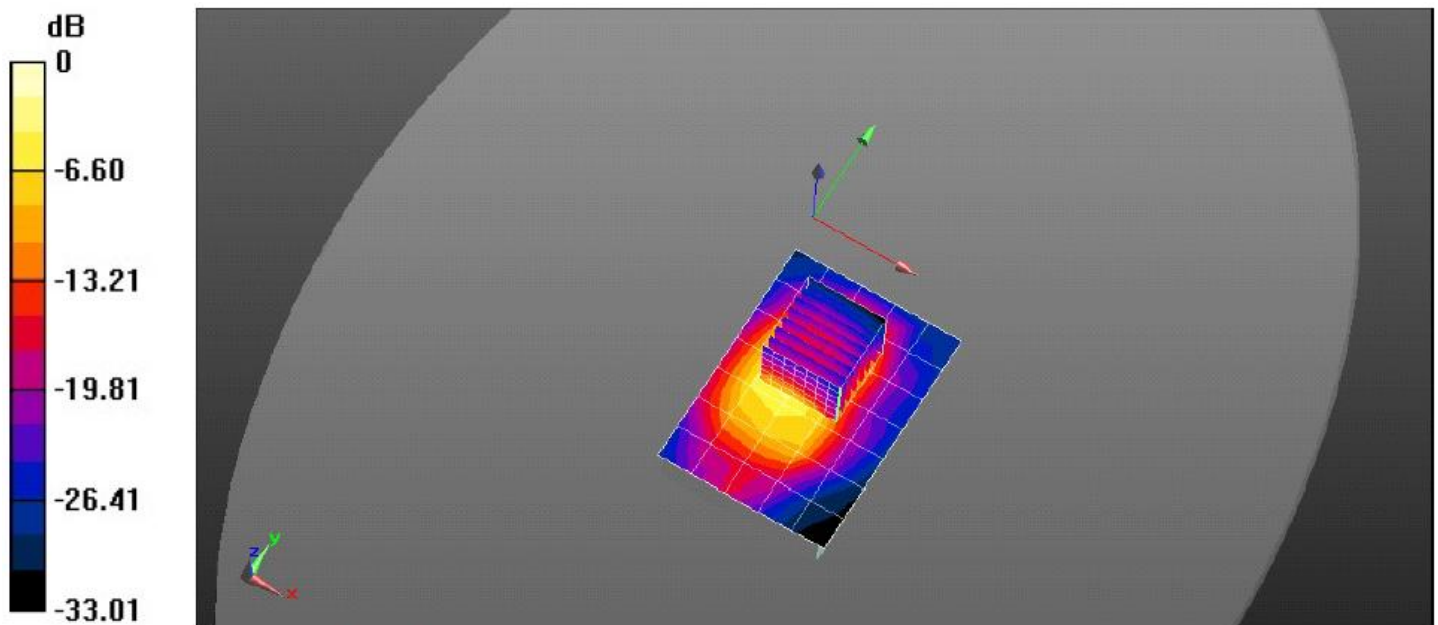
Reference Value = 17.20 V/m; Power Drift = -0.45 dB

Peak SAR (extrapolated) = 3.18 W/kg

**SAR(1 g) = 1.51 W/kg; SAR(10 g) = 0.670 W/kg**

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 1.47 W/kg = 1.68 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

## Plot 5

Date/Time: 6/13/2018 11:34:51 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25037**

Communication System: UID 0, LTE (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 1732.5 MHz

Medium: MSL1750\_Batch 100824-2

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.475$  S/m;  $\epsilon_r = 52.133$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Cindy Air Temperature: 23.3°C Medium Temperature: 21.5°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(5.15, 5.15, 5.15); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front; Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 2.26 W/kg

**Flat-Section/Bottom Side 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

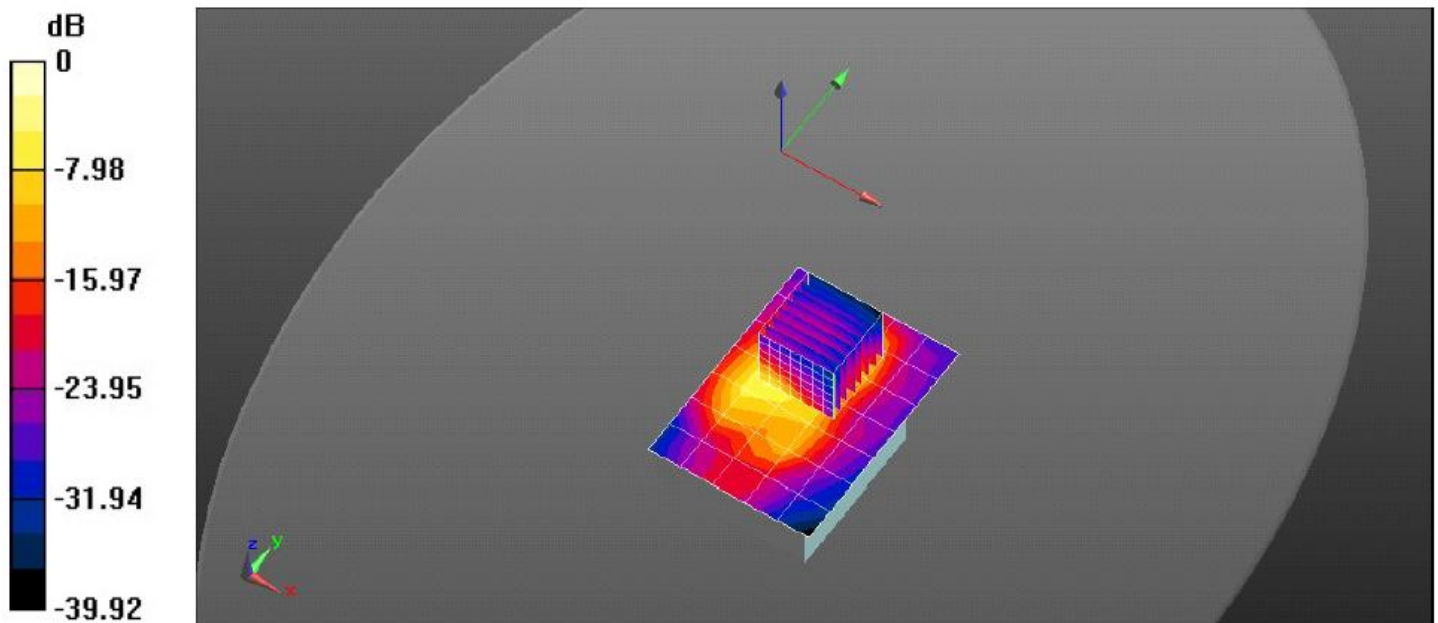
Reference Value = 11.17 V/m; Power Drift = 0.44 dB

Peak SAR (extrapolated) = 3.12 W/kg

**SAR(1 g) = 1.47 W/kg; SAR(10 g) = 0.656 W/kg**

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

Maximum value of SAR (measured) = 1.93 W/kg



$$0 \text{ dB} = 2.26 \text{ W/kg} = 3.55 \text{ dBW/kg}$$

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

## Plot 6

Date/Time: 6/12/2018 4:08:37 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25037**

Communication System: UID 0, LTE-FDD (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 1755 MHz

Medium: MSL1750\_Batch 100824-2

Medium parameters used:  $f = 1755$  MHz;  $\sigma = 1.453$  S/m;  $\epsilon_r = 54.683$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Cindy Air Temperature: 23.3°C Medium Temperature: 21.5°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(5.15, 5.15, 5.15); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front; Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.96 W/kg

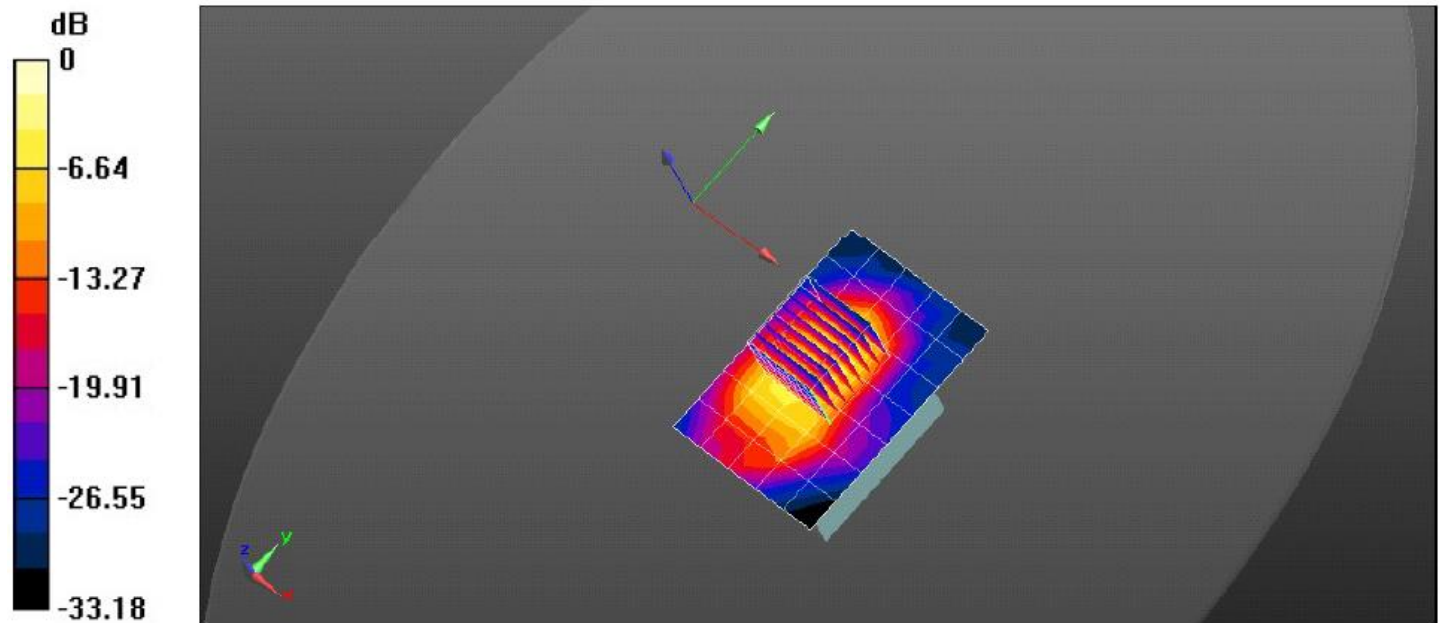
**Flat-Section/Bottom Side 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 17.51 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.79 W/kg

**SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.606 W/kg**

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.96 W/kg = 2.91 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
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## Plot 7

Date/Time: 6/11/2018 6:34:52 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25037**

Communication System: UID 10175 - CAD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 699 MHz

Medium: MSL750\_Batch 110526-1

Medium parameters used (extrapolated):  $f = 699$  MHz;  $\sigma = 0.955$  S/m;  $\epsilon_r = 55.689$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 22.8±C Medium Temperature: 21±C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(6.49, 6.49, 6.49); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.435 W/kg

**Flat-Section/Bottom Side 0mm/Zoom Scan (8x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

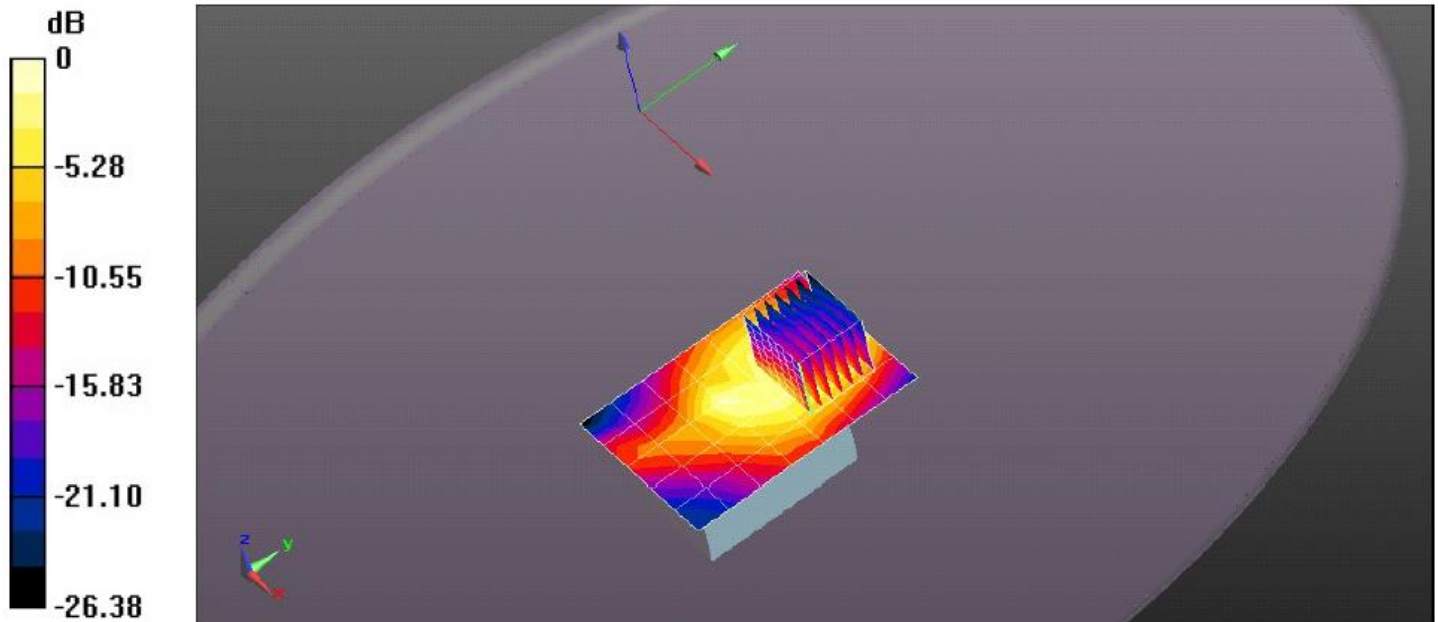
Reference Value = 14.14 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 2.35 W/kg

**SAR(1 g) = 0.620 W/kg; SAR(10 g) = 0.255 W/kg**

[Info: Extrapolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.903 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

|                        |                                |                |            |                 |
|------------------------|--------------------------------|----------------|------------|-----------------|
| <b>Test Report #:</b>  | SAR_IBEAT_004_18001_Appendix_A | <b>FCC ID:</b> | 2AP3M-W110 | <b>CETECOM™</b> |
| <b>Date of Report:</b> | 2018-07-03                     |                |            |                 |

## Plot 8

Date/Time: 6/14/2018 12:15:08 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25049**

Communication System: UID 0, LTE (50 RB, 10MHz, TTI, QPSK) (0); Frequency: 707.5 MHz

Medium: MSL750\_Batch 110526-1

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.955$  S/m;  $\epsilon_r = 55.657$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Cindy Air Temperature: 23.2°C Medium Temperature: 21.3°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(6.49, 6.49, 6.49); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 0.478 W/kg

**Flat-Section/Bottom Side 0mm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

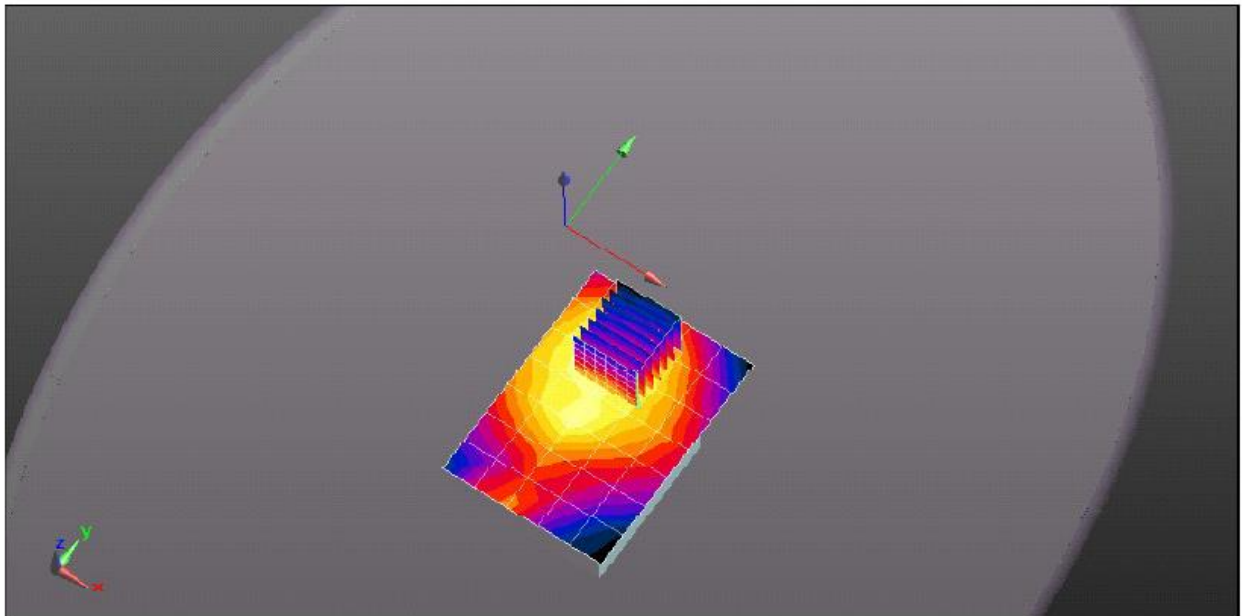
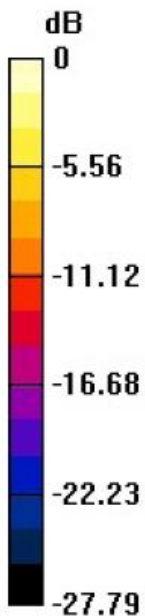
Reference Value = 14.30 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.220 W/kg**

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

Maximum value of SAR (measured) = 0.692 W/kg



0 dB = 0.478 W/kg = -3.20 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

## Plot 9

Date/Time: 6/11/2018 4:39:18 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: lumi; Type: smart watch; Serial: EVT25049**

Communication System: UID 10175 - CAD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 715.9 MHz

Medium: MSL750\_Batch 110526-1

Medium parameters used:  $f = 716$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 55.624$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 22.5°C Medium Temperature: 21.4°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(6.49, 6.49, 6.49); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092

I DASY52 52.8.8(1222);

**Flat-Section/Bottom Side 0mm/Area Scan (6x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.483 W/kg

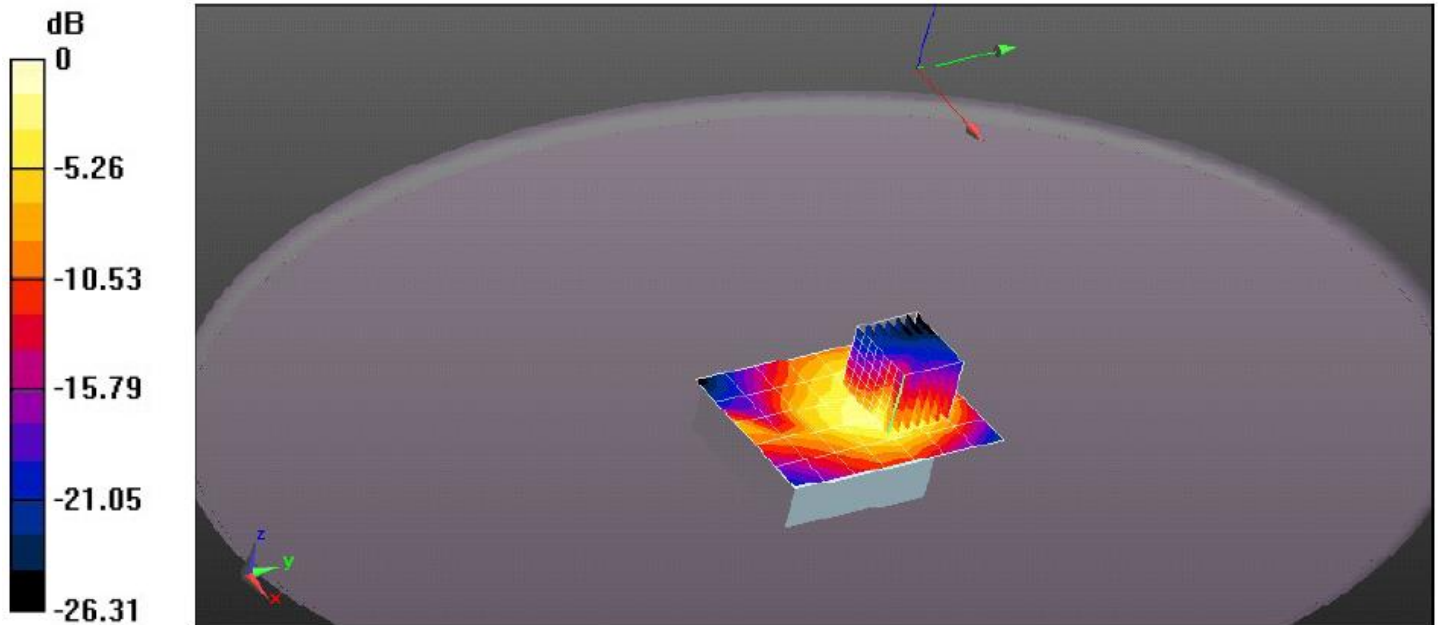
**Flat-Section/Bottom Side 0mm/Zoom Scan (8x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 17.77 V/m; Power Drift = -0.63 dB

Peak SAR (extrapolated) = 2.25 W/kg

**SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.227 W/kg**

Maximum value of SAR (measured) = 0.803 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

|                 |                                |         |            |                 |
|-----------------|--------------------------------|---------|------------|-----------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM™</b> |
| Date of Report: | 2018-07-03                     |         |            |                 |

## Plot 10

Date/Time: 6/11/2018 12:33:41 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 750 MHz - D750V3 - SN1032\_April 2014; Type: D750V3; Serial: D750V3 - SN:1032**

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium: MSL750\_Batch 110526-1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.959 \text{ S/m}$ ;  $\epsilon_r = 55.498$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature:  $22.7^\circ\text{C}$  Medium Temperature:  $21.7^\circ\text{C}$ ; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(6.49, 6.49, 6.49); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092

I DASYS2 52.8.8(1222);

**Flat-Section/Front 0mm/Area Scan (8x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) =  $2.45 \text{ W/kg}$

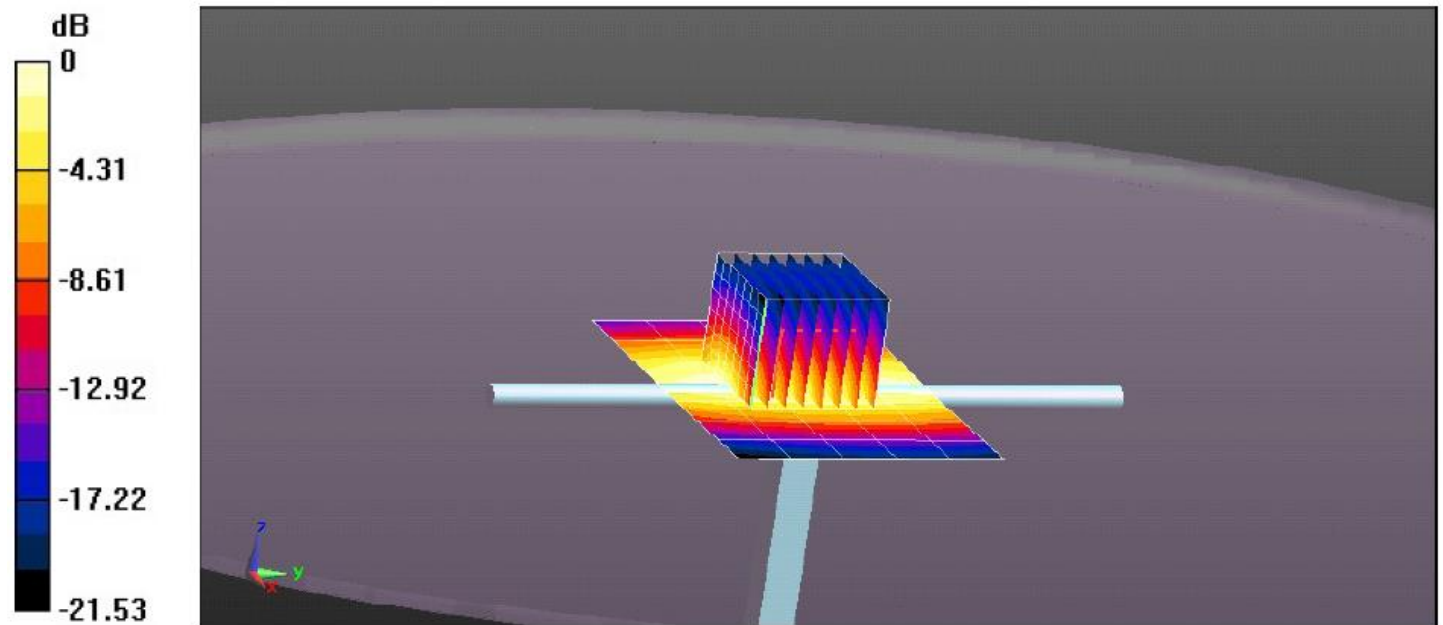
**Flat-Section/Front 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $51.55 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$

Peak SAR (extrapolated) =  $3.01 \text{ W/kg}$

**SAR(1 g) =  $2.12 \text{ W/kg}$ ; SAR(10 g) =  $1.44 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.44 \text{ W/kg}$



0 dB =  $2.45 \text{ W/kg}$  =  $3.89 \text{ dBW/kg}$

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

### Plot 11

Date/Time: 6/14/2018 11:44:35 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 750 MHz - D750V3 - SN1032\_April 2014; Type: D750V3; Serial: D750V3 - SN:1032**

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium: MSL750\_Batch 110526-1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.959 \text{ S/m}$ ;  $\epsilon_r = 55.498$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 23°C Medium Temperature: 22.5°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(6.49, 6.49, 6.49); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1092

I DASY52 52.8.8(1222);

**Flat-Section/Front 0mm/Area Scan (8x6x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.42 W/kg

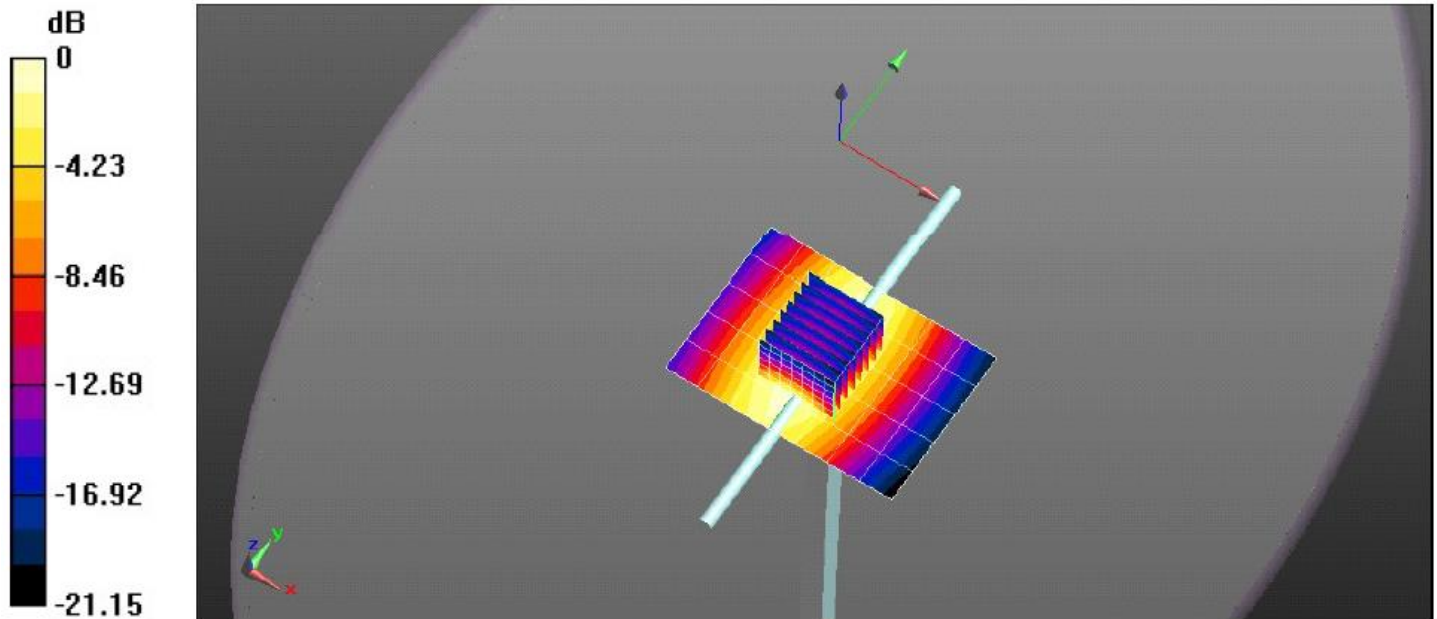
**Flat-Section/Front 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 51.70 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 2.94 W/kg

**SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.39 W/kg**

Maximum value of SAR (measured) = 2.39 W/kg



0 dB = 2.42 W/kg = 3.83 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

## Plot 12

Date/Time: 6/12/2018 2:50:01 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:xxx**

Communication System: UID 0, CW (0); Frequency: 1750 MHz

Medium: MSL1750\_Batch 100824-2

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.488$  S/m;  $\epsilon_r = 53.406$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 22.7°C Medium Temperature: 21.7°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(5.15, 5.15, 5.15); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Front 0mm/Area Scan (8x6x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 10.3 W/kg

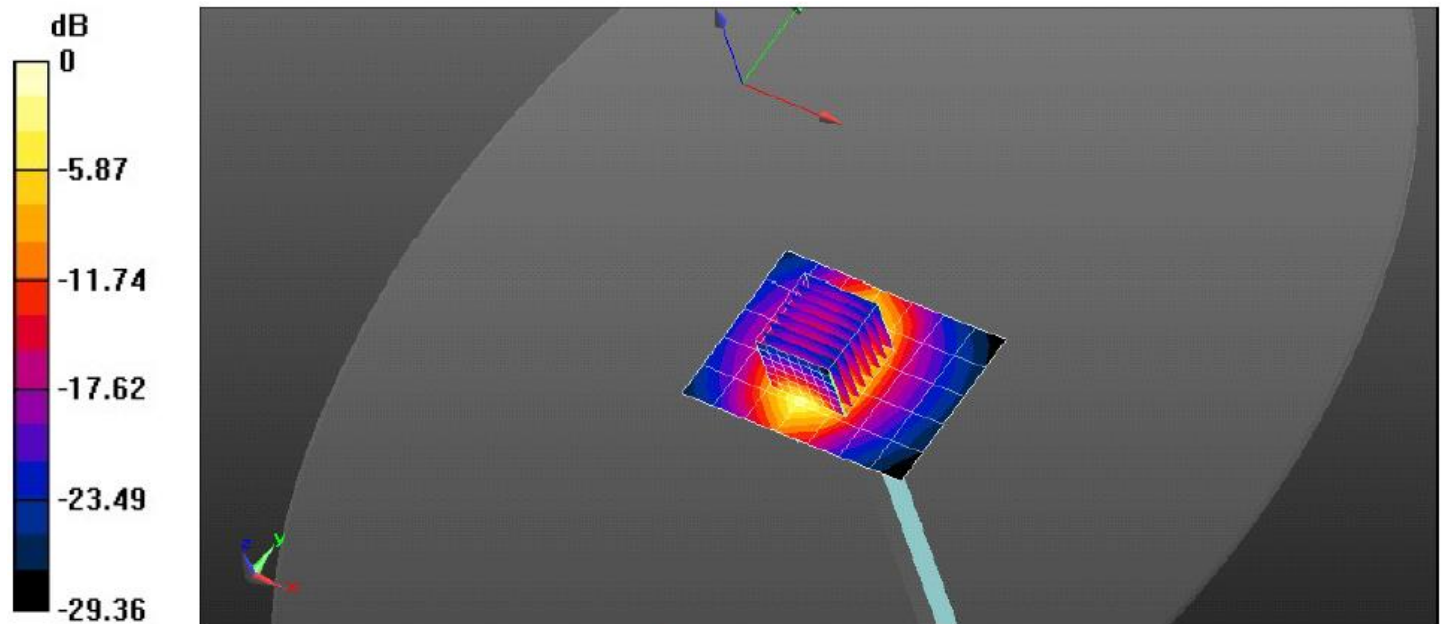
**Flat-Section/Front 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 84.72 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 15.3 W/kg

**SAR(1 g) = 8.72 W/kg; SAR(10 g) = 4.65 W/kg**

Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 10.3 W/kg = 10.11 dBW/kg

|                 |                                |         |            |                              |
|-----------------|--------------------------------|---------|------------|------------------------------|
| Test Report #:  | SAR_IBEAT_004_18001_Appendix_A | FCC ID: | 2AP3M-W110 | <b>CETECOM</b> <sup>TM</sup> |
| Date of Report: | 2018-07-03                     |         |            |                              |

### Plot 13

Date/Time: 6/14/2018 2:18:55 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

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

Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium: MSL1900\_Batch 110615-4

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.522$  S/m;  $\epsilon_r = 53.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

Procedure Notes: Test Technician: Joseph Air Temperature: 22.9°C Medium Temperature: 21.7°C; Comments:

DASY Configuration:

I Probe: ES3DV3 - SN3323; ConvF(4.97, 4.97, 4.97); Calibrated: 5/12/2017;

I Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0$ , 32.0

I Electronics: DAE4 Sn1266; Calibrated: 5/16/2017

I Phantom: ELI v4.0\_Front Type: QDOVA001BB; Serial: TP:xxxx

I DASY52 52.8.8(1222);

**Flat-Section/Front 0mm/Area Scan (8x6x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 10.9 W/kg

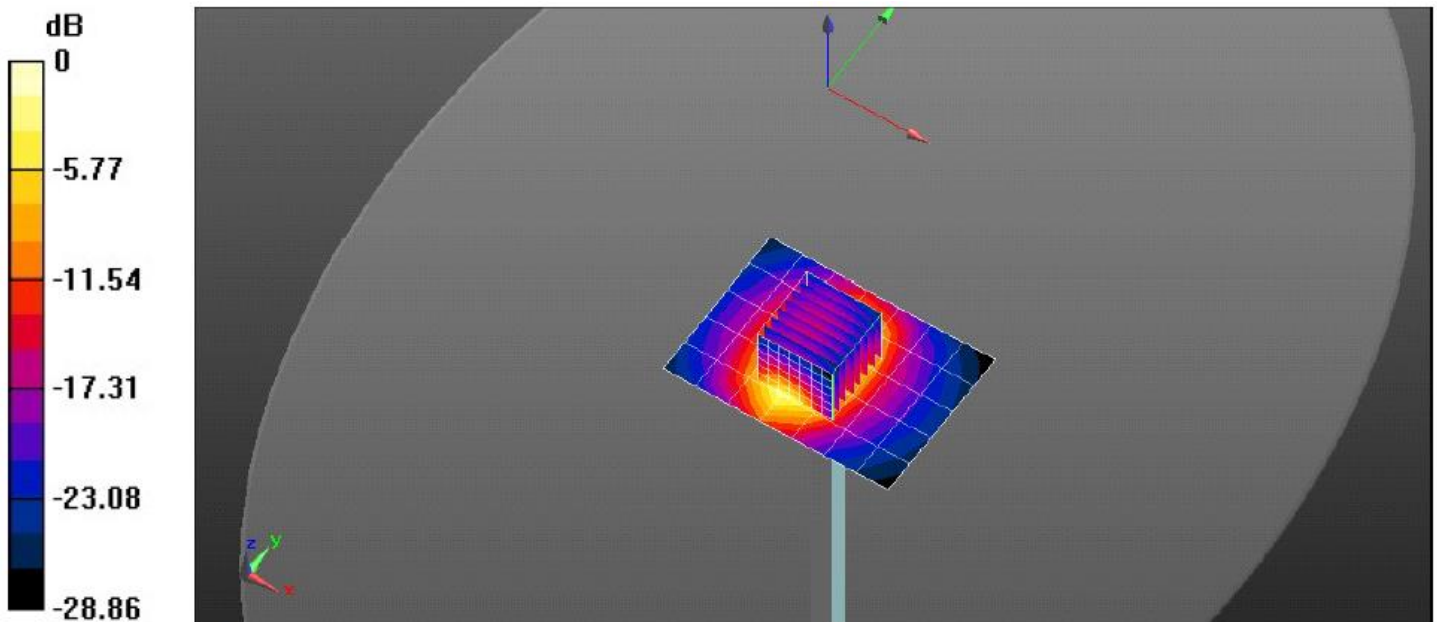
**Flat-Section/Front 0mm/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 87.94 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 9.35 W/kg; SAR(10 g) = 4.88 W/kg**

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg