

Fig. 7-1 Z-Scan at power reference point (WCDMA850)

WCDMA 1700 Left Cheek High

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Head 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.359$ mho/m; $\epsilon_r = 39.415$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.37, 8.37, 8.37)

Area Scan (61x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.328 W/kg

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

Reference Value = 2.521 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.194 W/kg

Maximum value of SAR (measured) = 0.338 W/kg

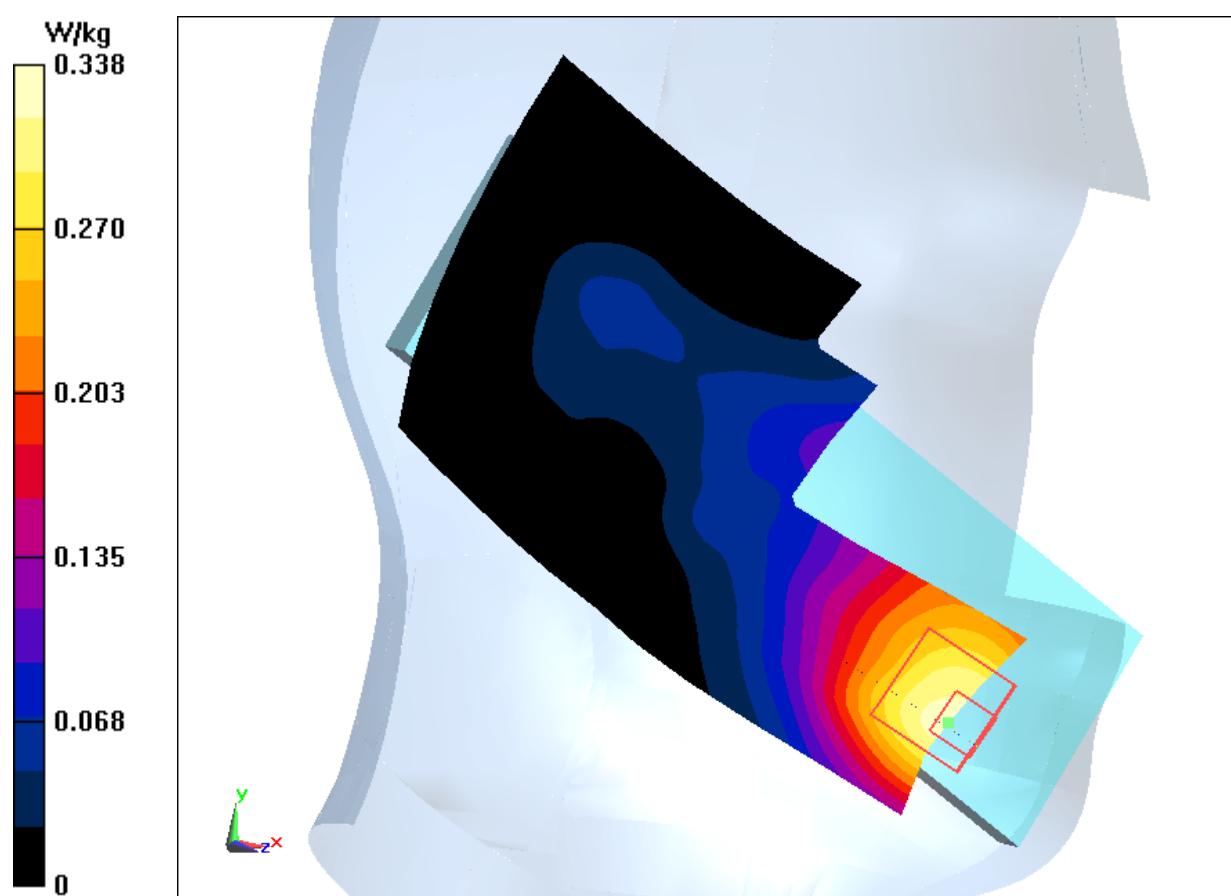


Fig.8 1700MHz

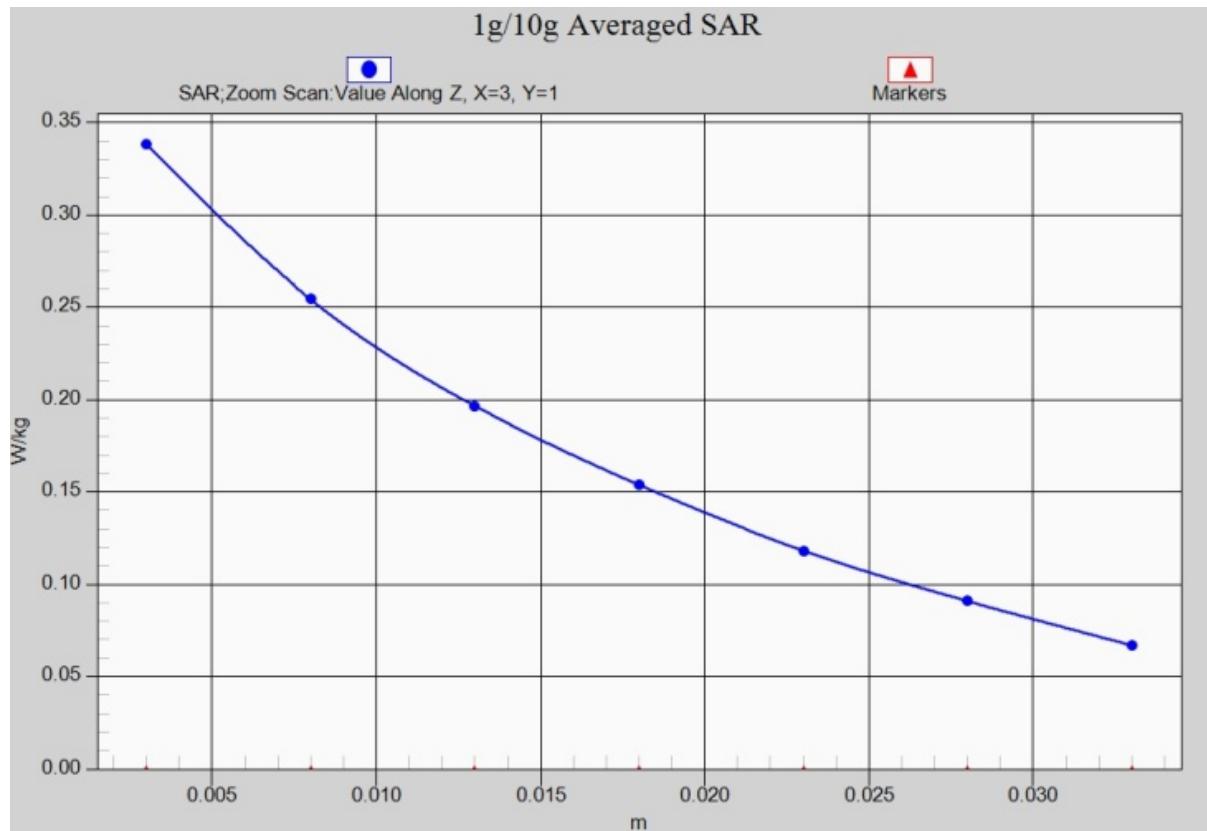


Fig. 8-1 Z-Scan at power reference point (1700 MHz)

WCDMA 1700 Body Rear open High – AP OFF

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.538 \text{ mho/m}$; $\epsilon_r = 54.069$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.18, 8.18, 8.18)

Area Scan (91x61x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.42 W/kg

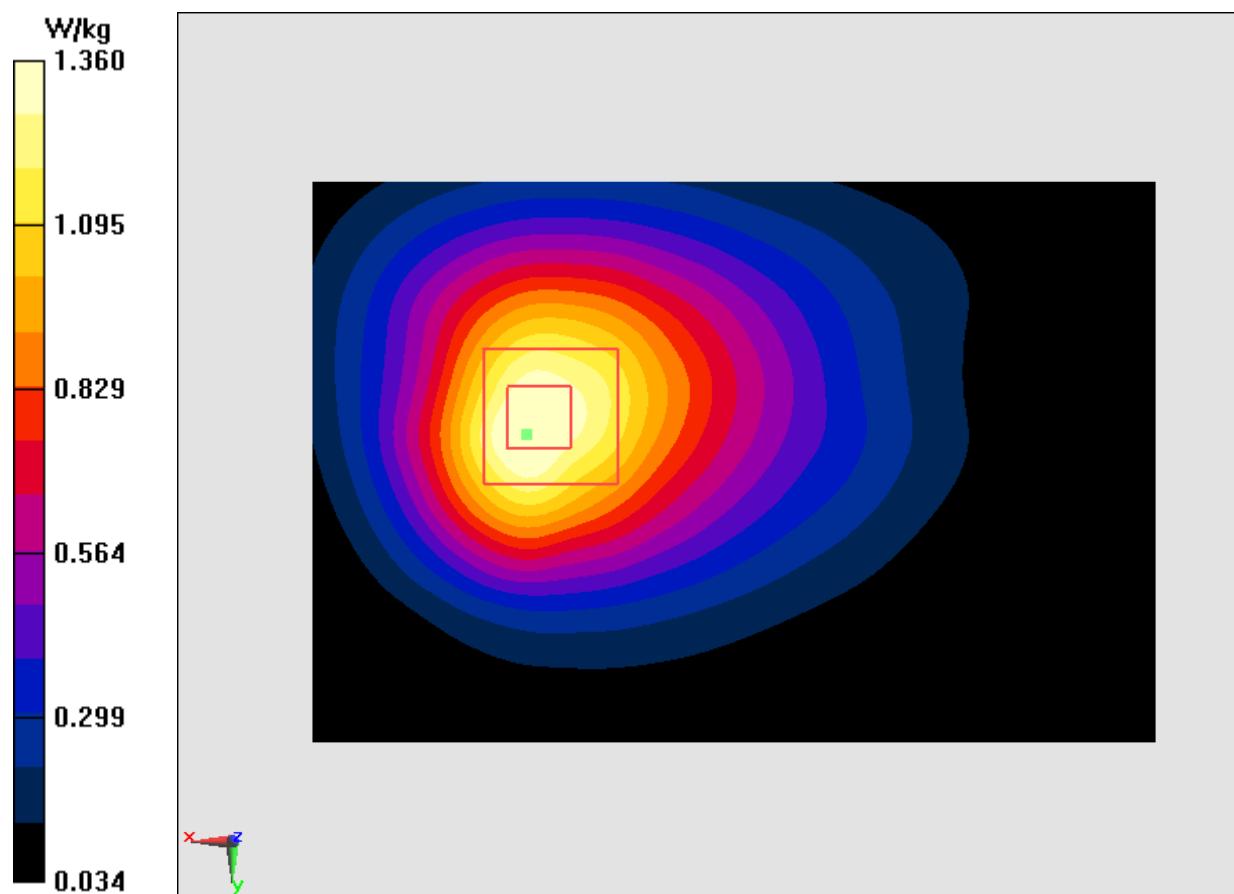
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.52 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.734 W/kg

Maximum value of SAR (measured) = 1.36 W/kg

**Fig.9 1700 MHz**

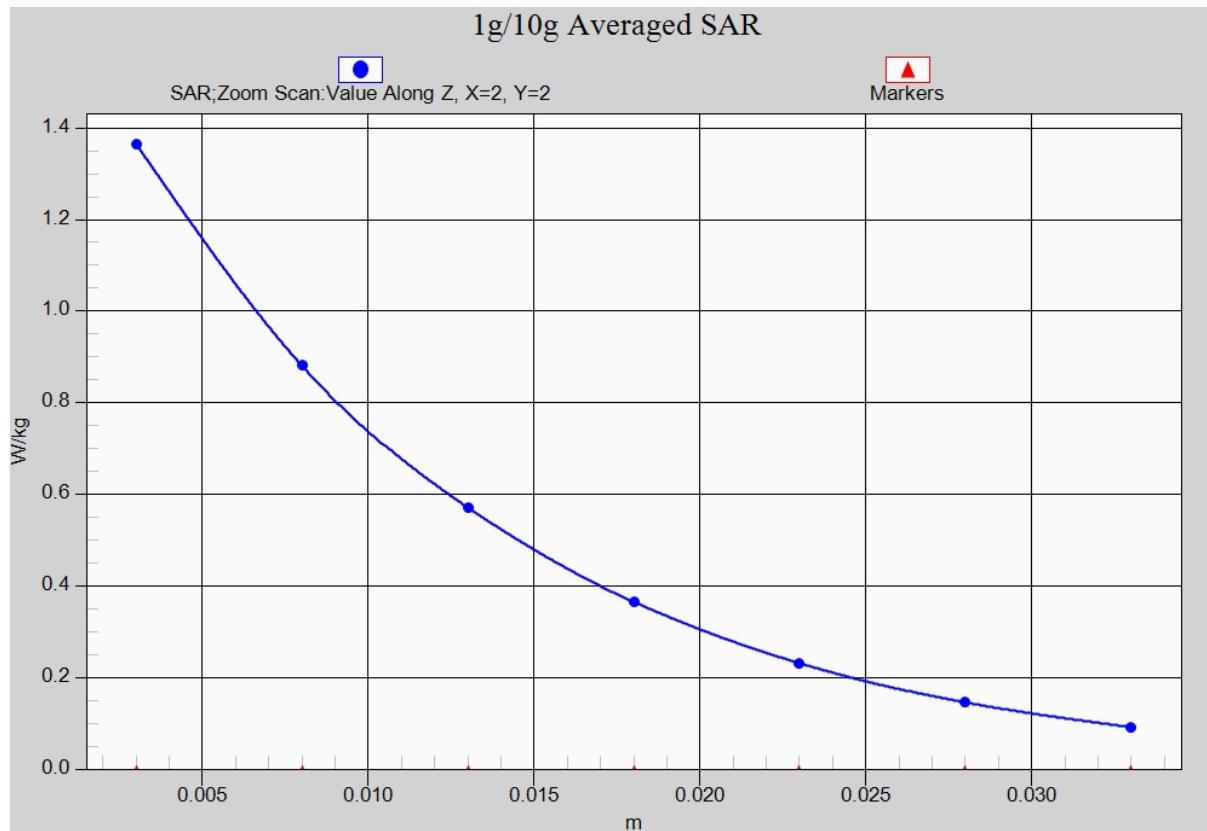


Fig. 9-1 Z-Scan at power reference point (1700 MHz)

WCDMA 1700 Body Rear closed High – AP ON

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.538$ mho/m; $\epsilon_r = 54.069$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1700 Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.18, 8.18, 8.18)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.42 W/kg

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

Reference Value = 17.93 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.663 W/kg

Maximum value of SAR (measured) = 1.37 W/kg

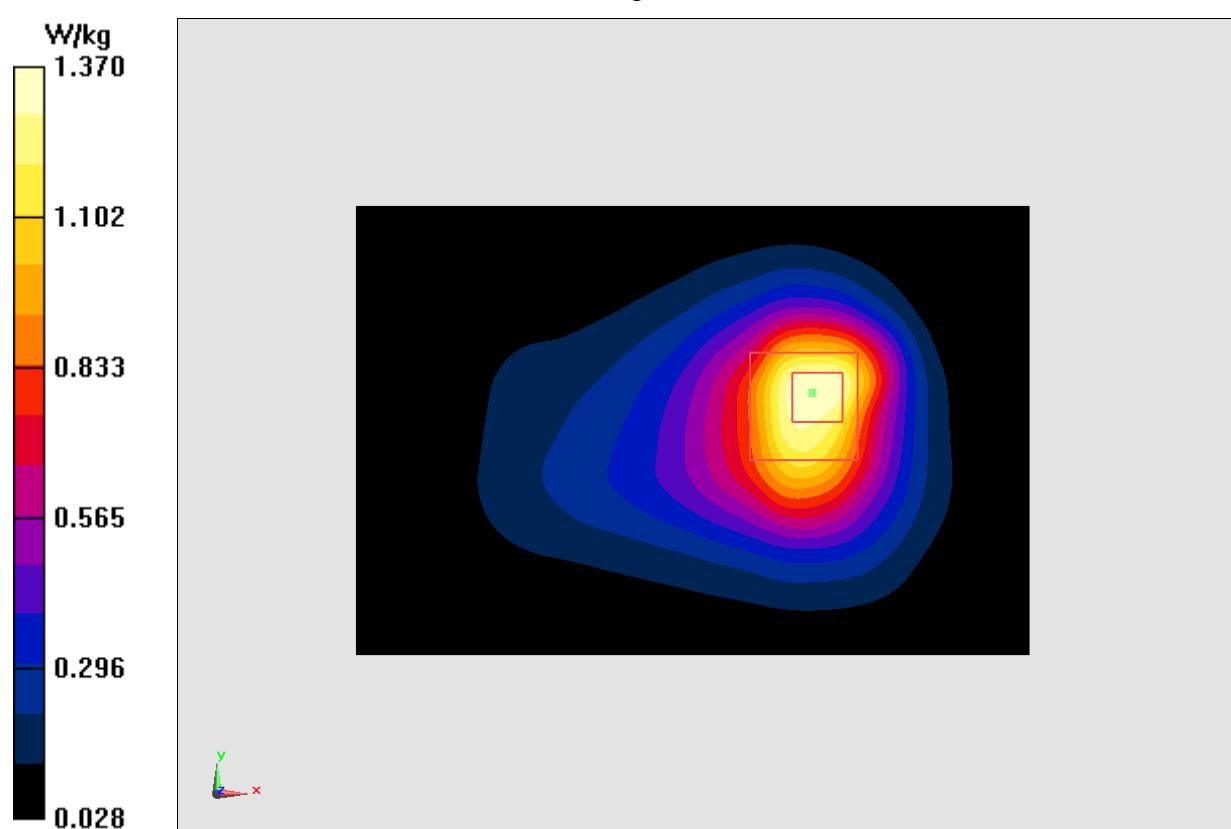


Fig.10 1700 MHz

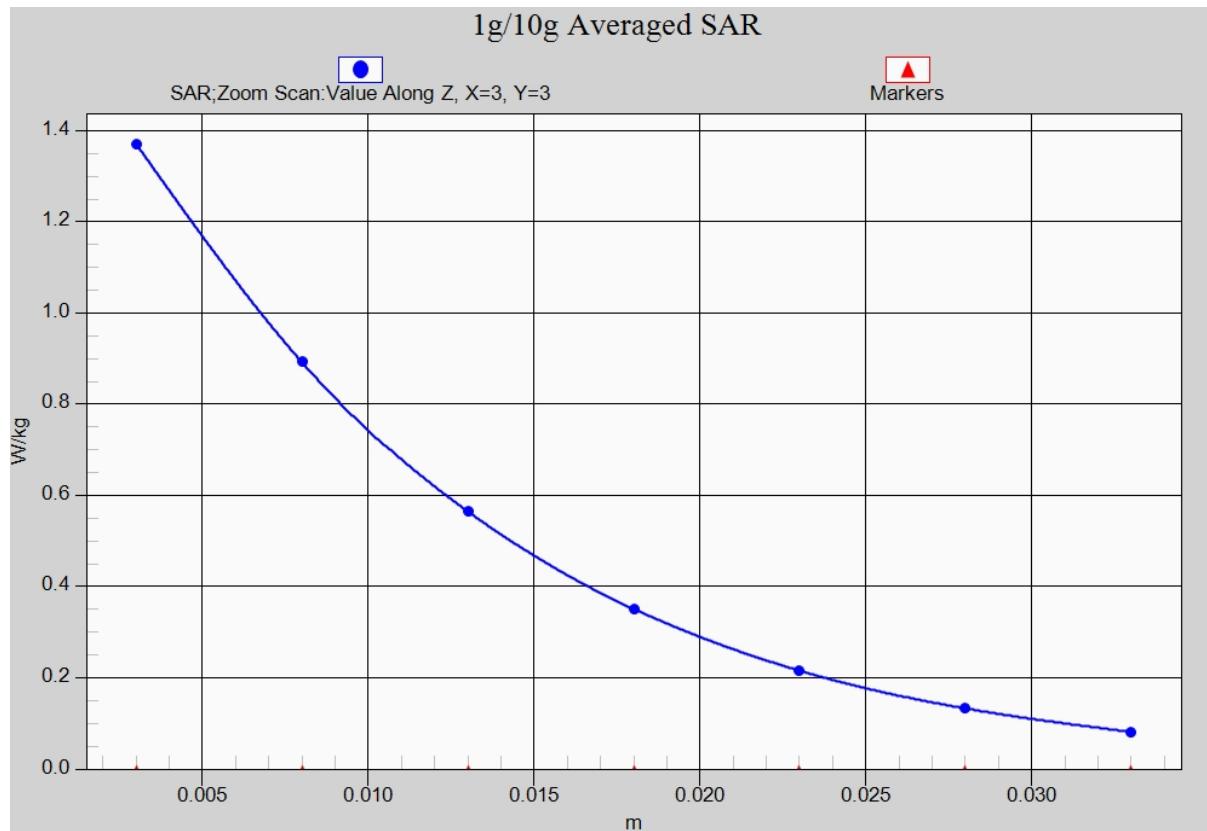


Fig. 10-1 Z-Scan at power reference point (1700 MHz)

WCDMA 1900 Left Cheek Middle

Date: 2016-11-18

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters use: $f = 1880$ MHz; $\sigma = 1.395$ mho/m; $\epsilon_r = 41.235$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.10, 8.10, 8.10)

Area Scan (61x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.723 W/kg

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

Reference Value = 2.955 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.903 W/kg

SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 0.691 W/kg

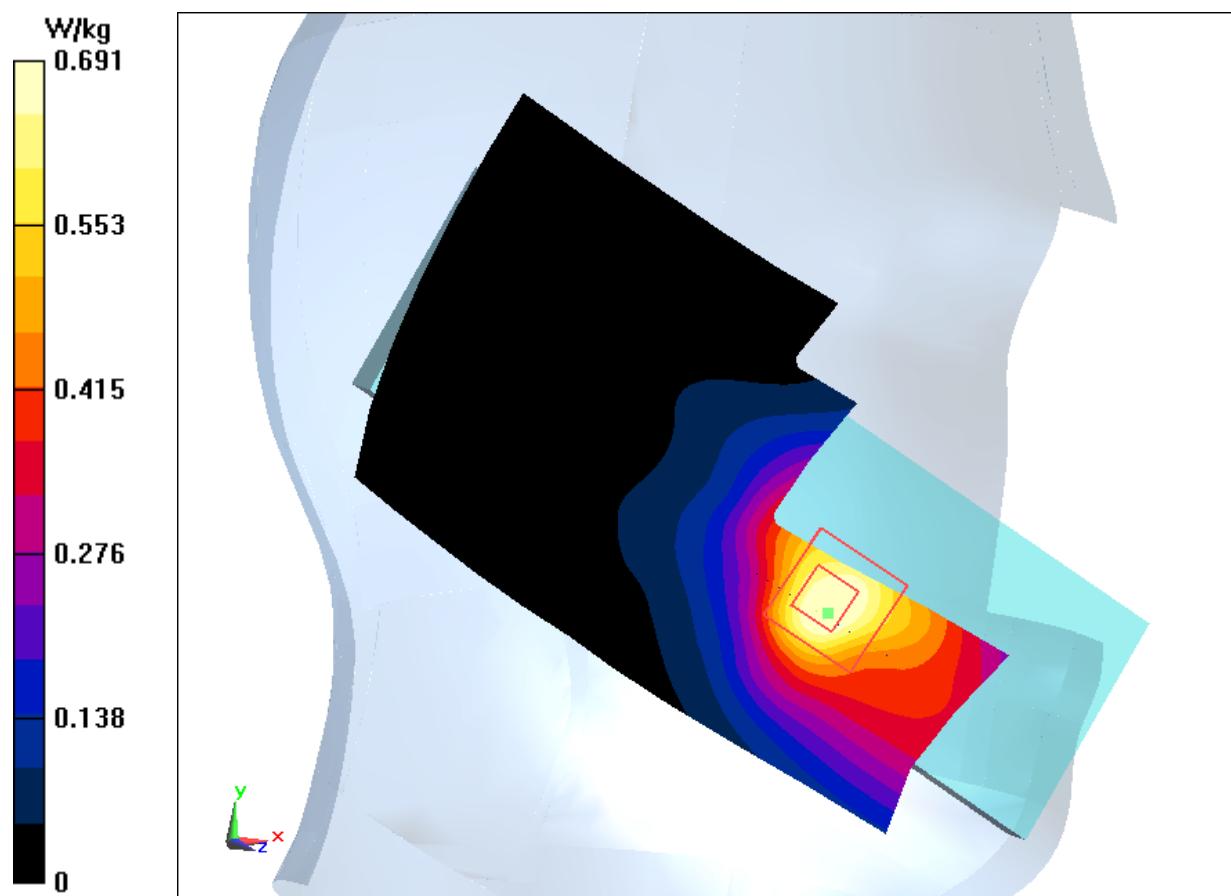


Fig.11 WCDMA1900

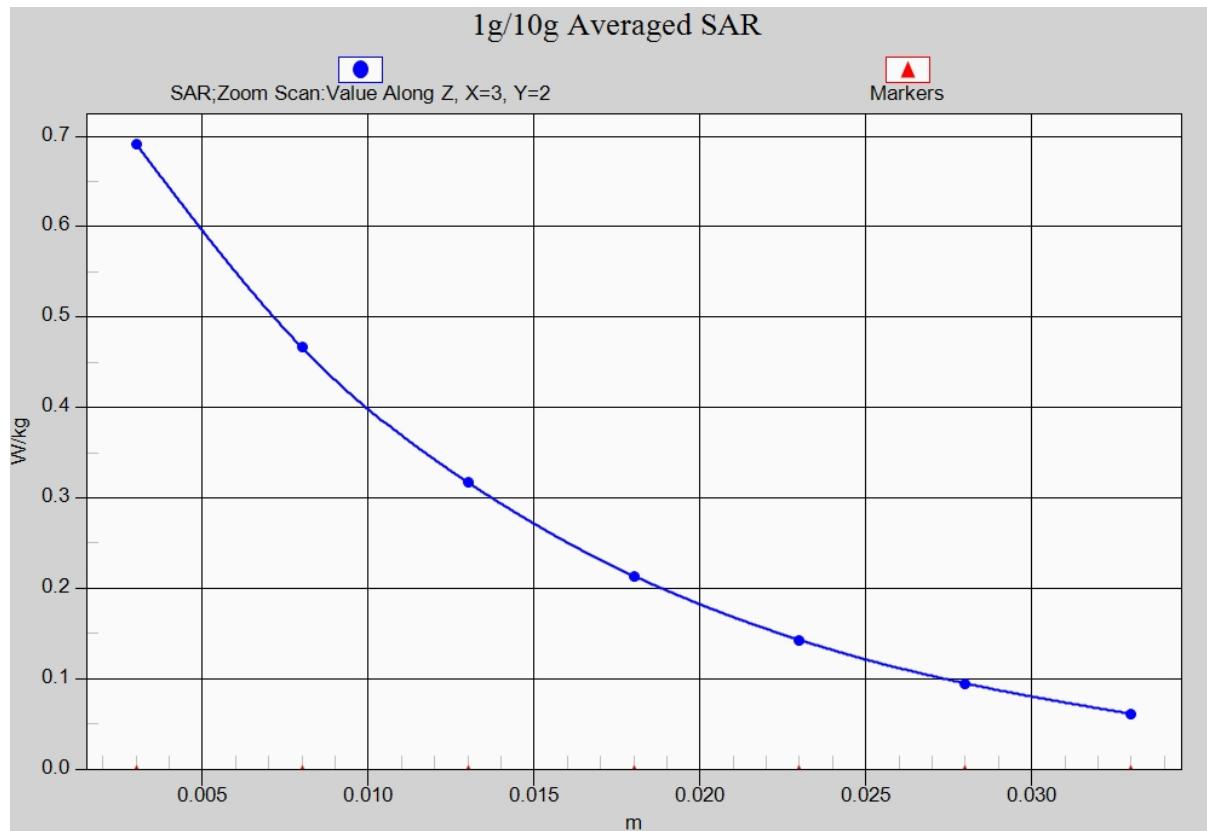


Fig. 11-1 Z-Scan at power reference point (WCDMA1900)

WCDMA 1900 Body Rear open High – AP OFF

Date: 2016-11-18

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.516 \text{ mho/m}$; $\epsilon_r = 53.706$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (121x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.919 W/kg

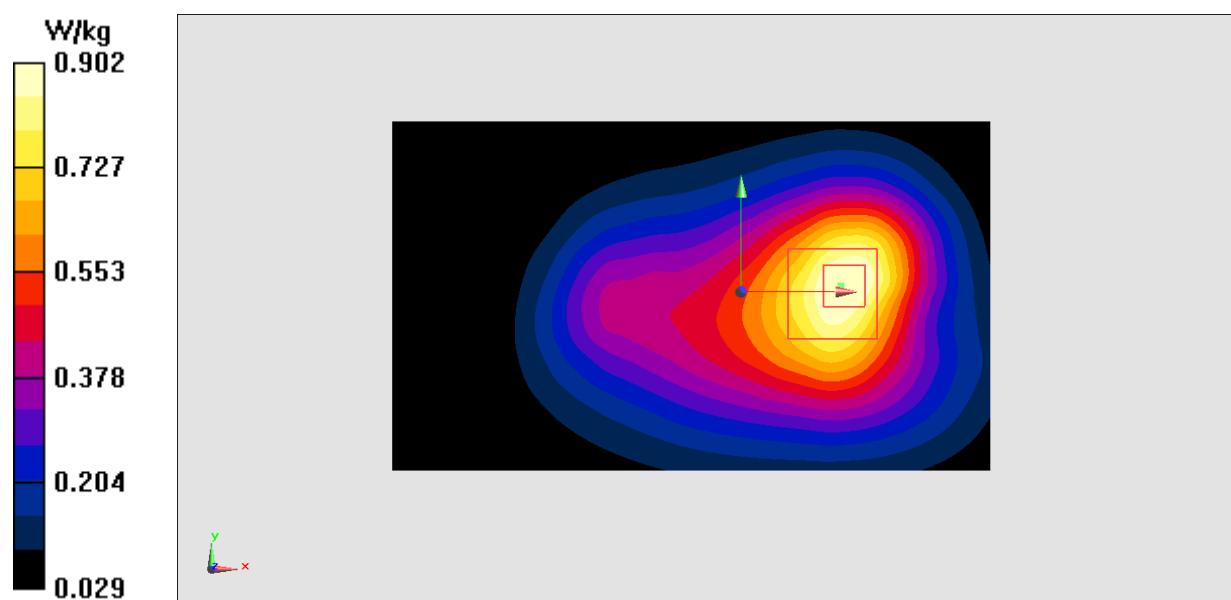
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.70 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.475 W/kg

Maximum value of SAR (measured) = 0.902 W/kg

**Fig.12 WCDMA1900**

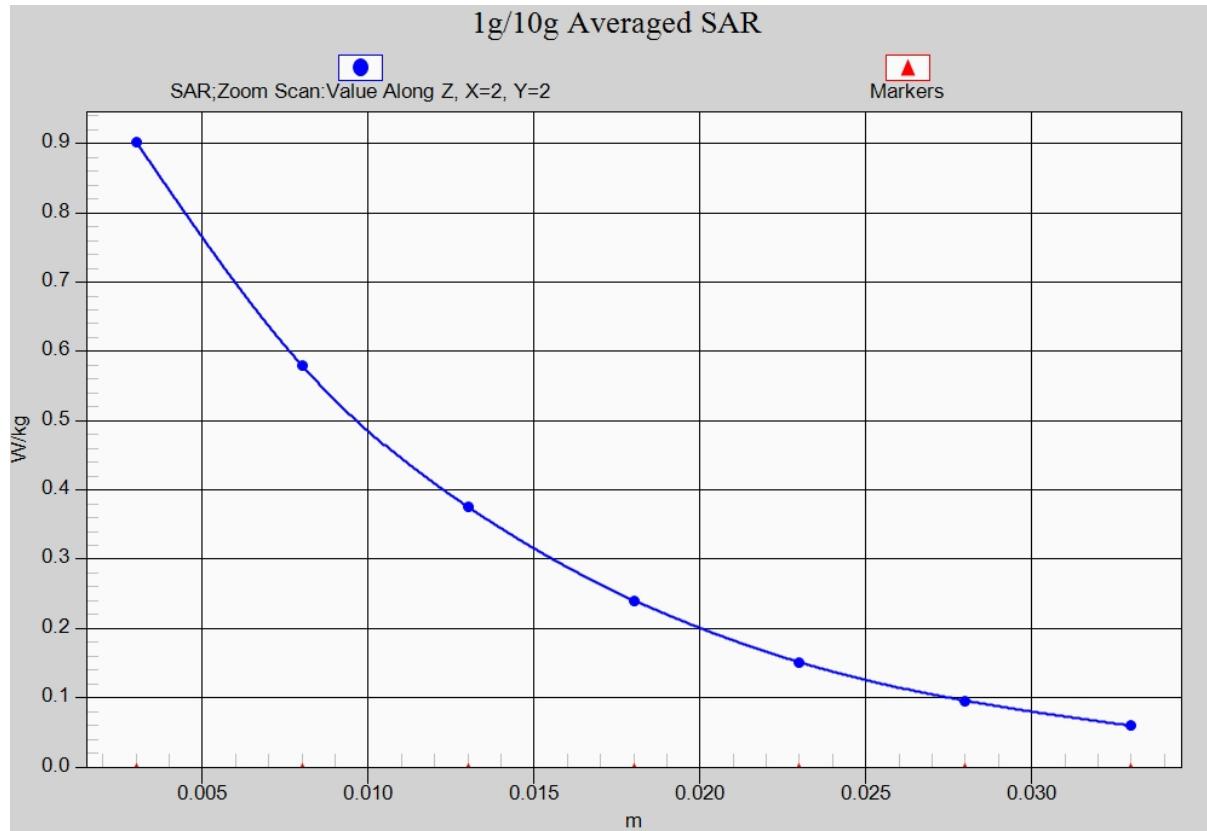


Fig. 12-1 Z-Scan at power reference point (WCDMA1900)

WCDMA 1900 Body Rear open Low – AP ON

Date: 2016-11-18

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.456$ mho/m; $\epsilon_r = 53.886$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: WCDMA 1900 Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.968 W/kg

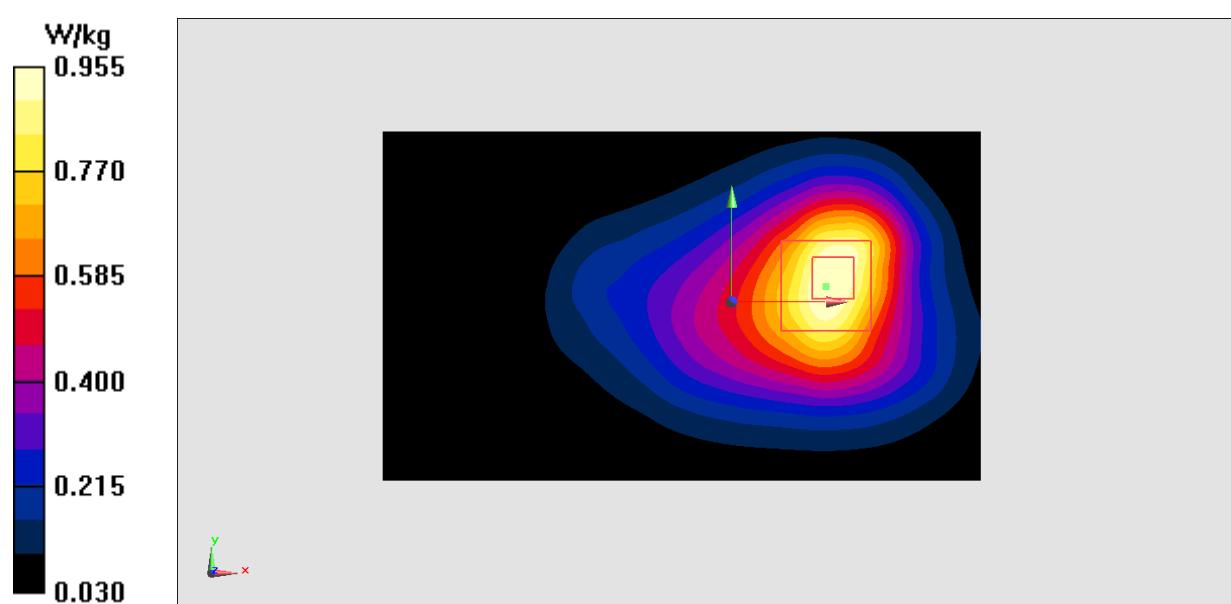
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.62 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.501 W/kg

Maximum value of SAR (measured) = 0.955 W/kg

**Fig.13 WCDMA1900**

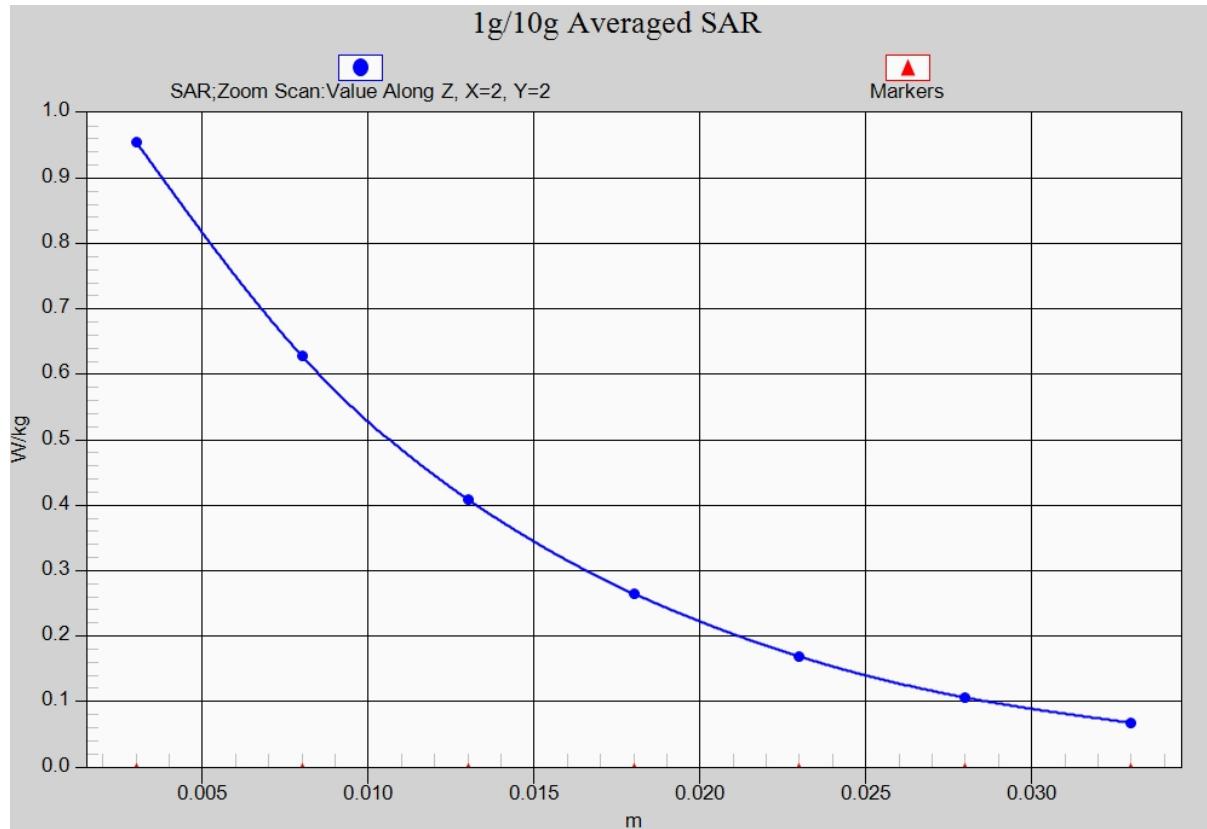


Fig. 13-1 Z-Scan at power reference point (WCDMA1900)

CDMA BC0 Head Right Cheek Middle

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 41.558$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC0 Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(10.01, 10.01, 10.01)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

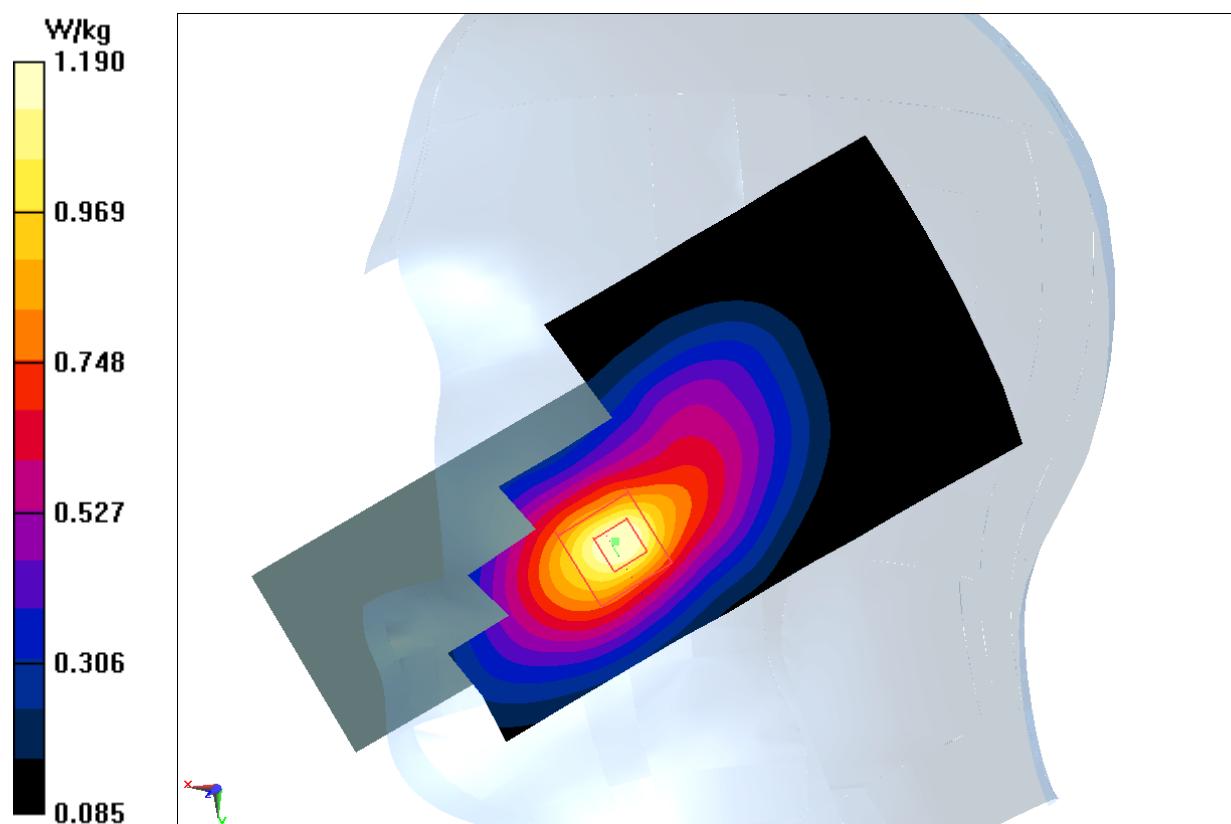
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.044 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.649 W/kg

Maximum value of SAR (measured) = 1.19 W/kg

**Fig.14 CDMA BC0**

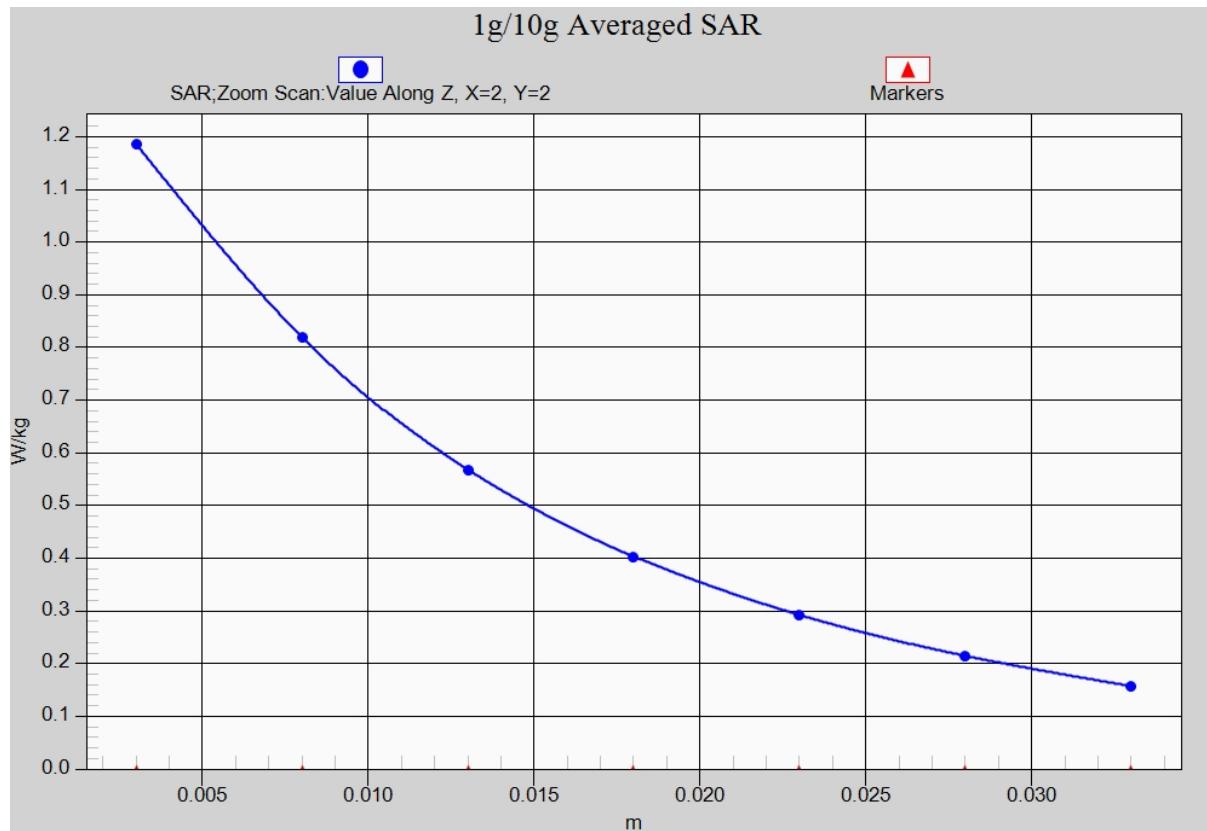


Fig. 14-1 Z-Scan at power reference point (CDMA BC0)

CDMA BC0 Body Rear closed Low – AP OFF

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used: $f = 825$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 56.241$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC0 Frequency: 824.7 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

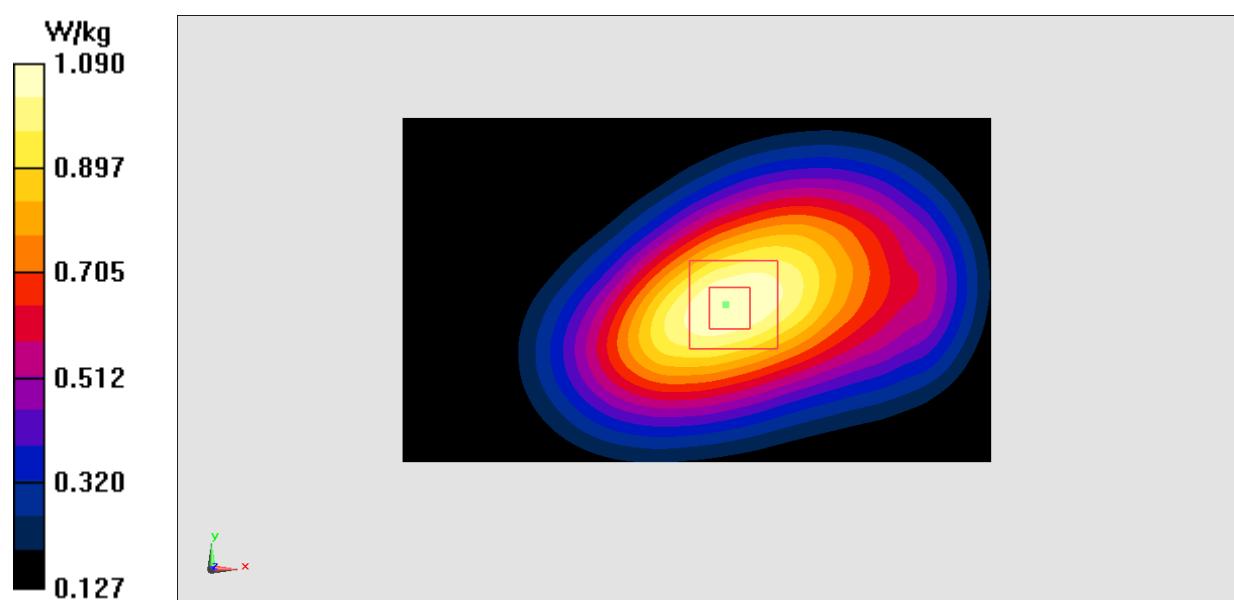
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.98 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.725 W/kg

Maximum value of SAR (measured) = 1.09 W/kg

**Fig.15 CDMA BC0**

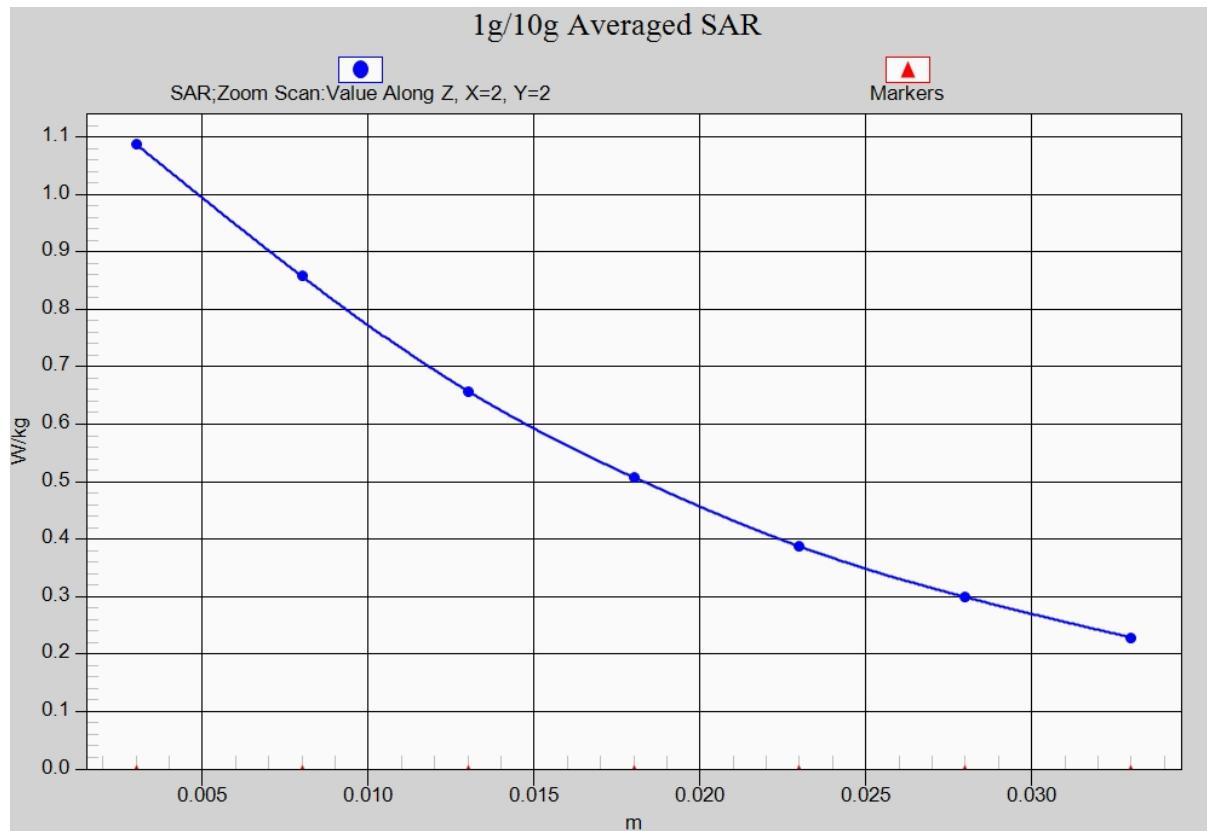


Fig. 15-1 Z-Scan at power reference point (CDMA BC0)

CDMA BC0 Body Rear closed Middle – AP ON

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 56.151$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC0 Frequency: 836.52 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.926 W/kg

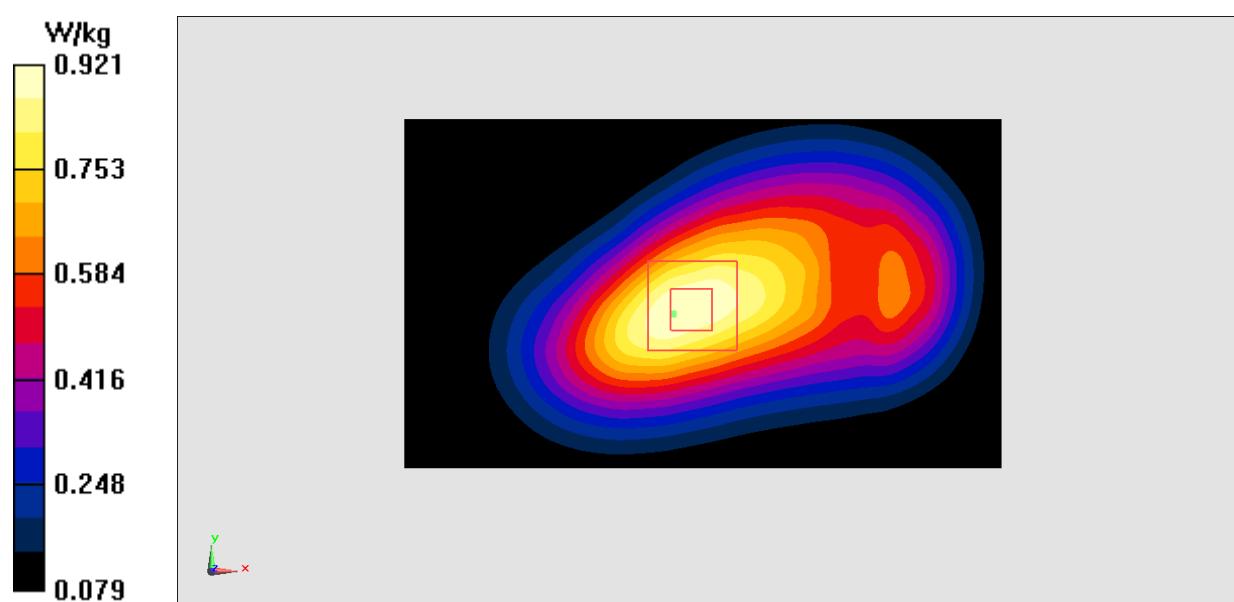
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.03 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.593 W/kg

Maximum value of SAR (measured) = 0.921 W/kg

**Fig.16 CDMA BC0**

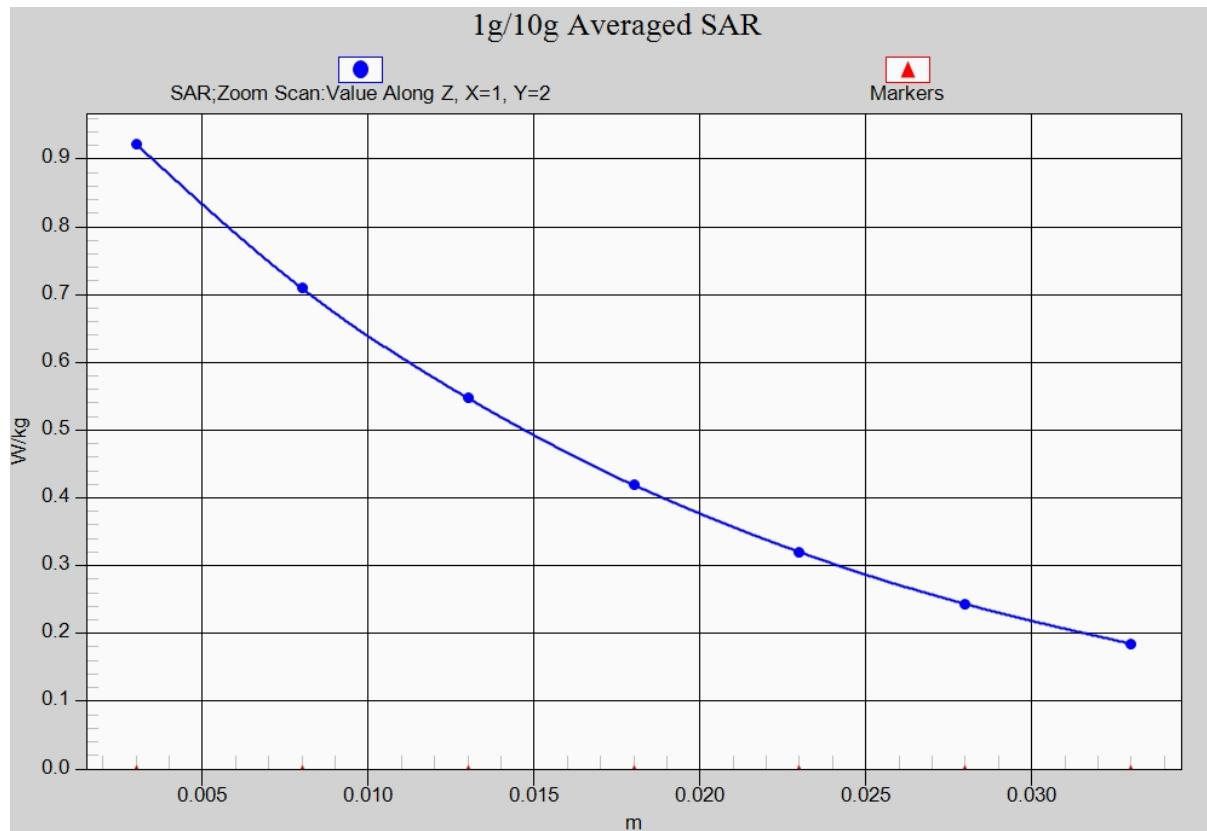


Fig. 16-1 Z-Scan at power reference point (CDMA BC0)

CDMA BC1 Head Left Cheek High

Date: 2016-11-19

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.433$ S/m; $\epsilon_r = 40.975$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC1 Frequency: 1908.75 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.10, 8.10, 8.10)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.659 W/kg

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

Reference Value = 2.788 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.296 W/kg

Maximum value of SAR (measured) = 0.648 W/kg

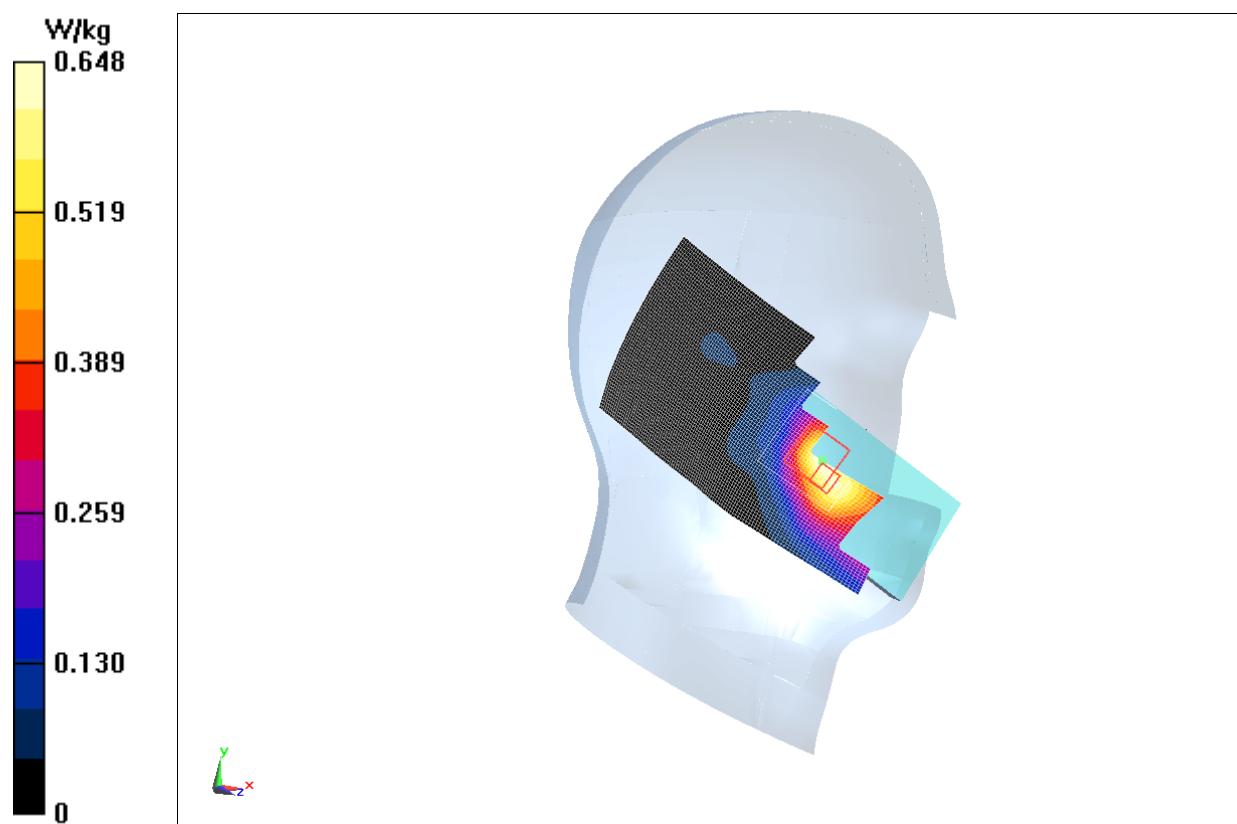


Fig.17 CDMA BC1

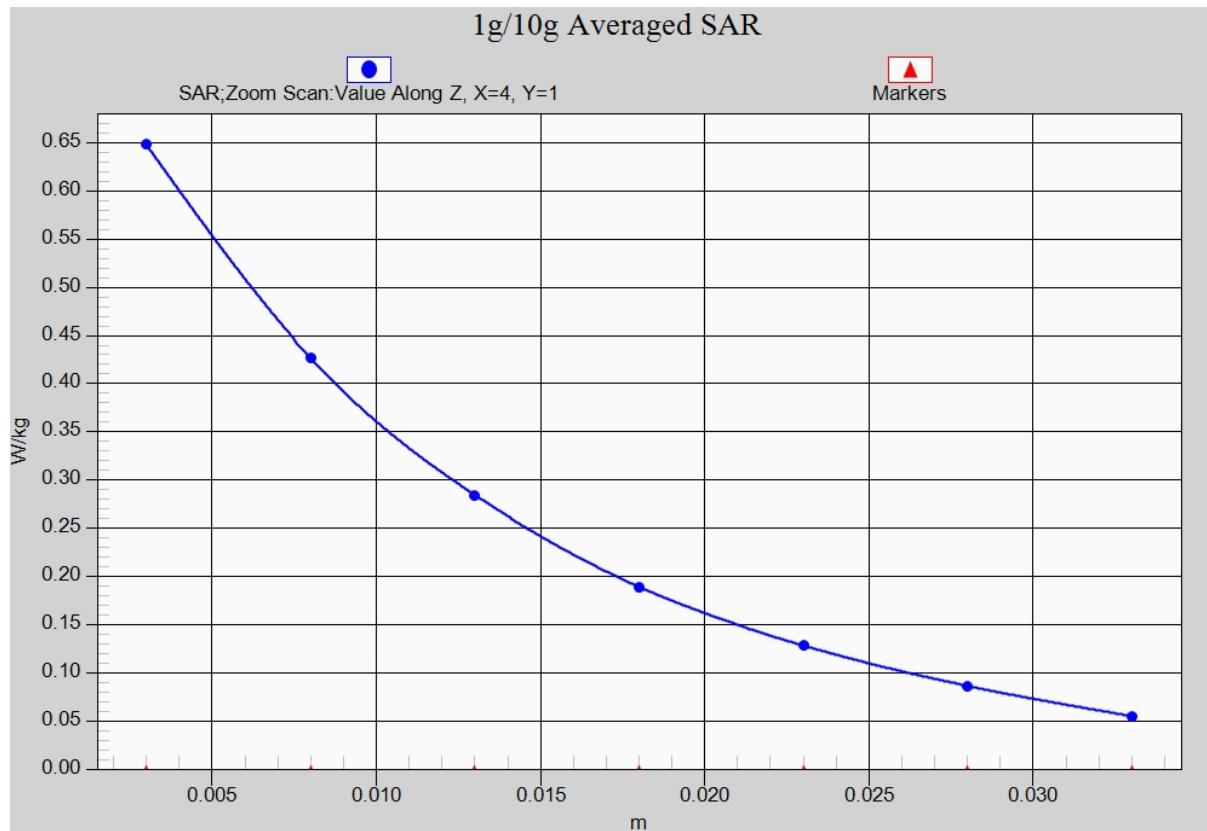


Fig. 17-1 Z-Scan at power reference point (CDMA BC1)

CDMA BC1 Body Rear open High – AP OFF

Date: 2016-11-19

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.481$ S/m; $\epsilon_r = 55.758$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC1 Frequency: 1908.75 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

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

Reference Value = 21.01 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.666 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

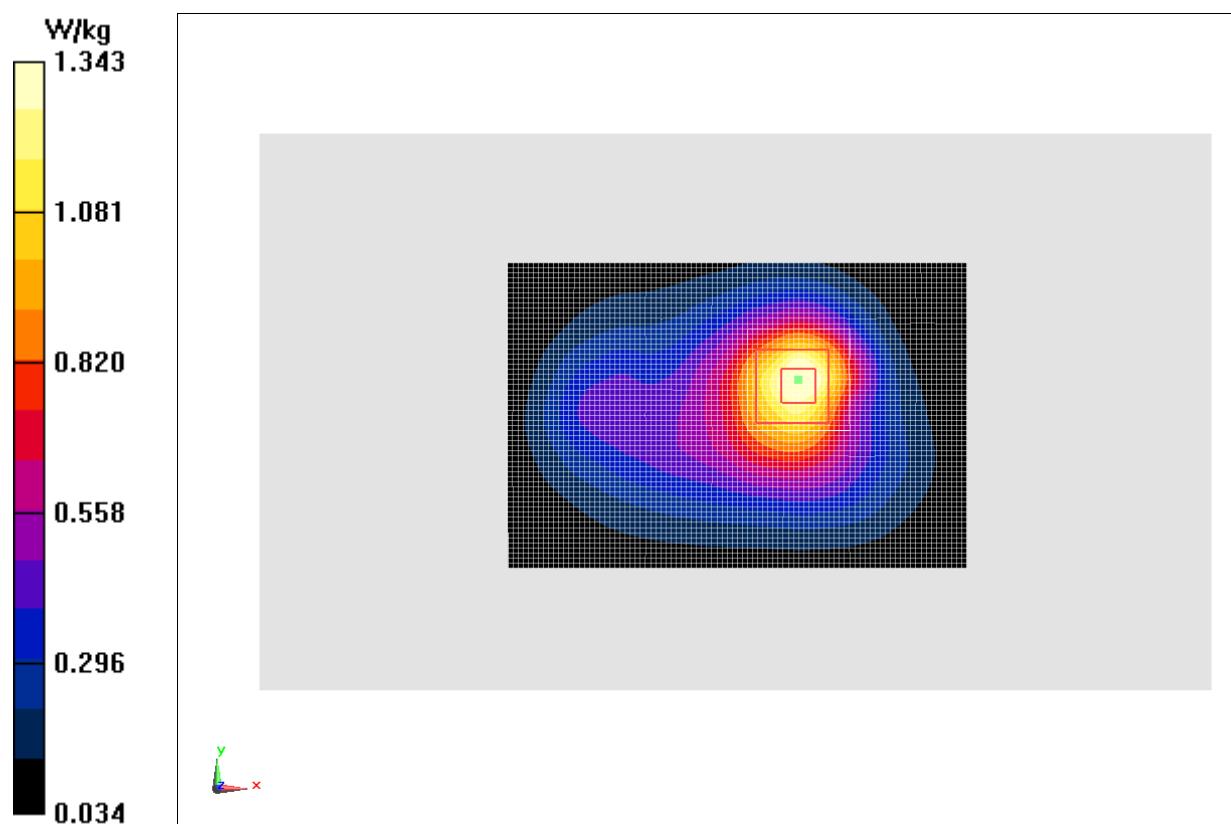


Fig.18 CDMA BC1

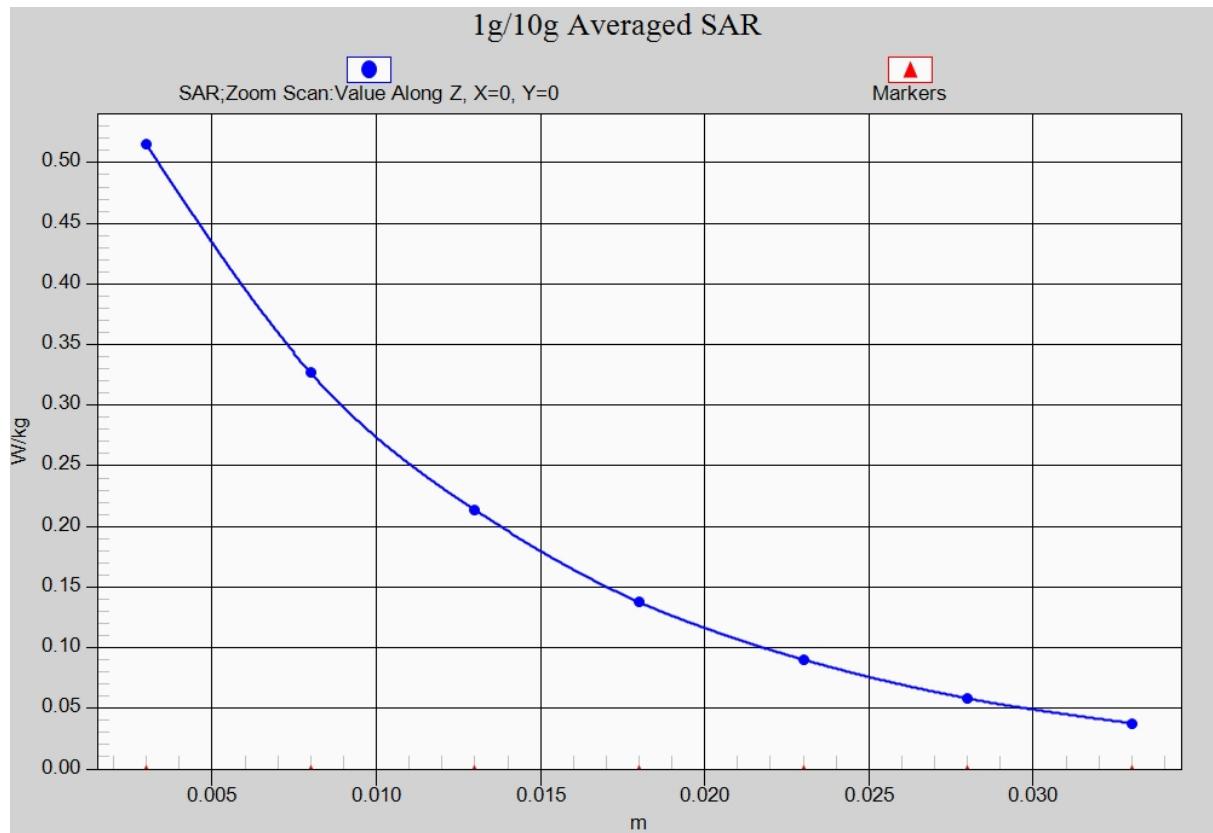


Fig.18-1 Z-Scan at power reference point (CDMA BC1)

CDMA BC1 Body Rear closed Middle – AP ON

Date: 2016-11-19

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.478$ S/m; $\epsilon_r = 55.838$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC1 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (91x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

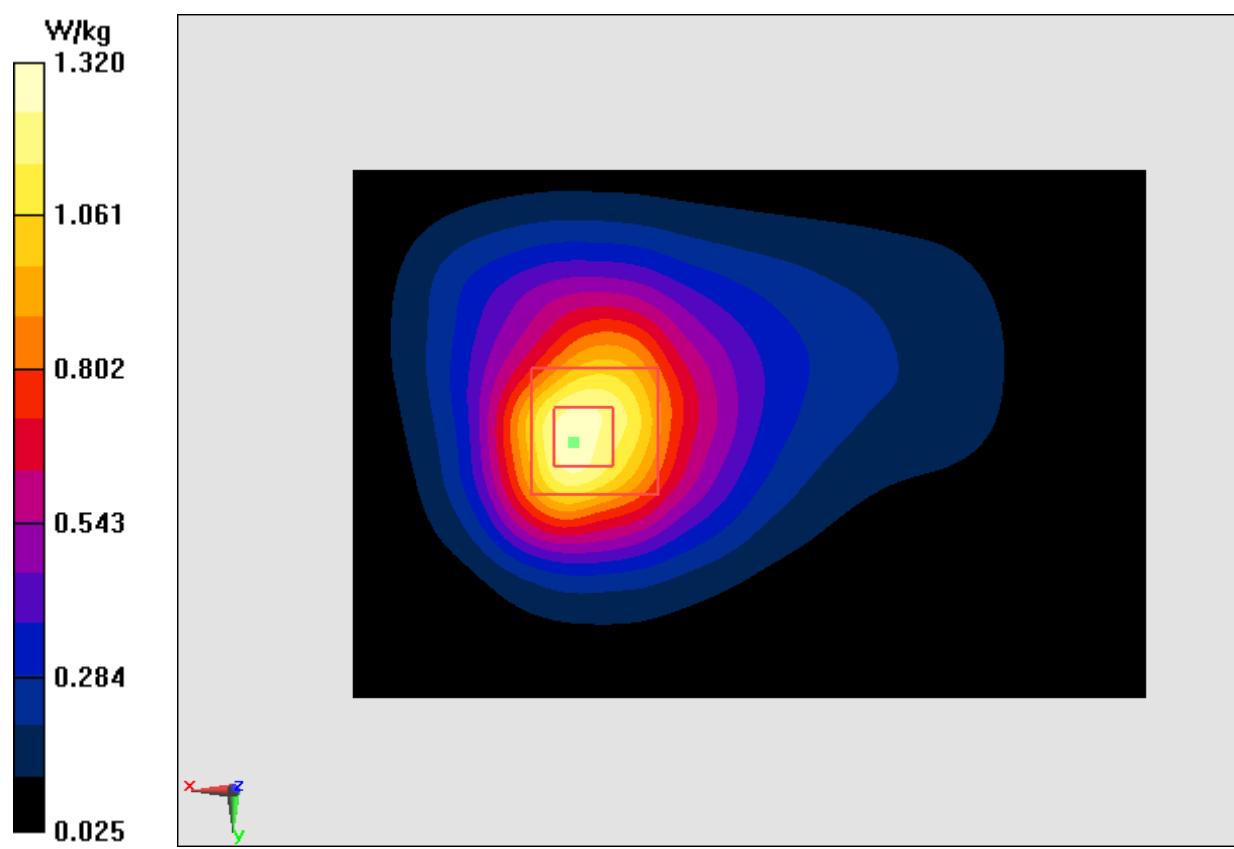
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.17 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.640 W/kg

Maximum value of SAR (measured) = 1.32 W/kg

**Fig.19 CDMA BC1**

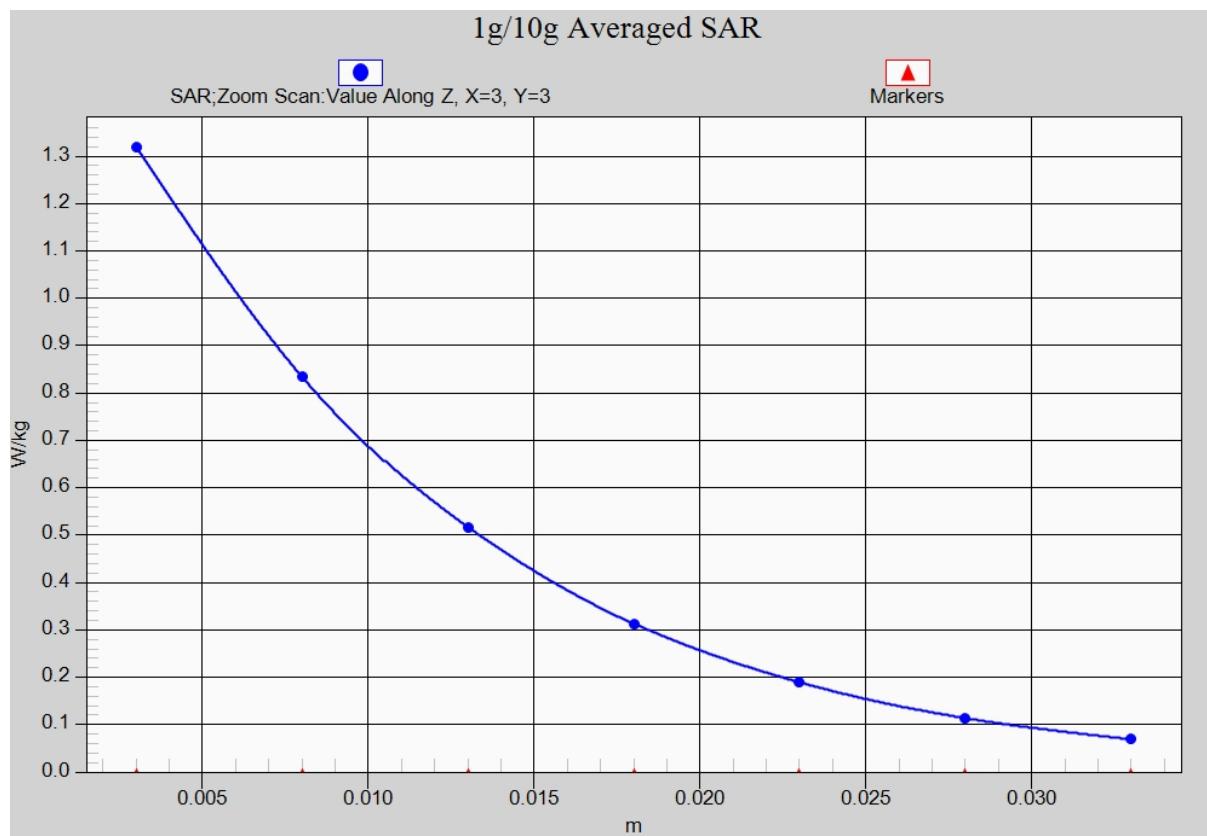


Fig.19-1 Z-Scan at power reference point (CDMA BC1)

CDMA BC10 Head Right Cheek Middle

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 820.5$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 41.023$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC10 Frequency: 820.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(10.01, 10.01,, 10.01,,)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

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

Reference Value = 7.704 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.993 W/kg; SAR(10 g) = 0.638 W/kg

Maximum value of SAR (measured) = 1.17 W/kg

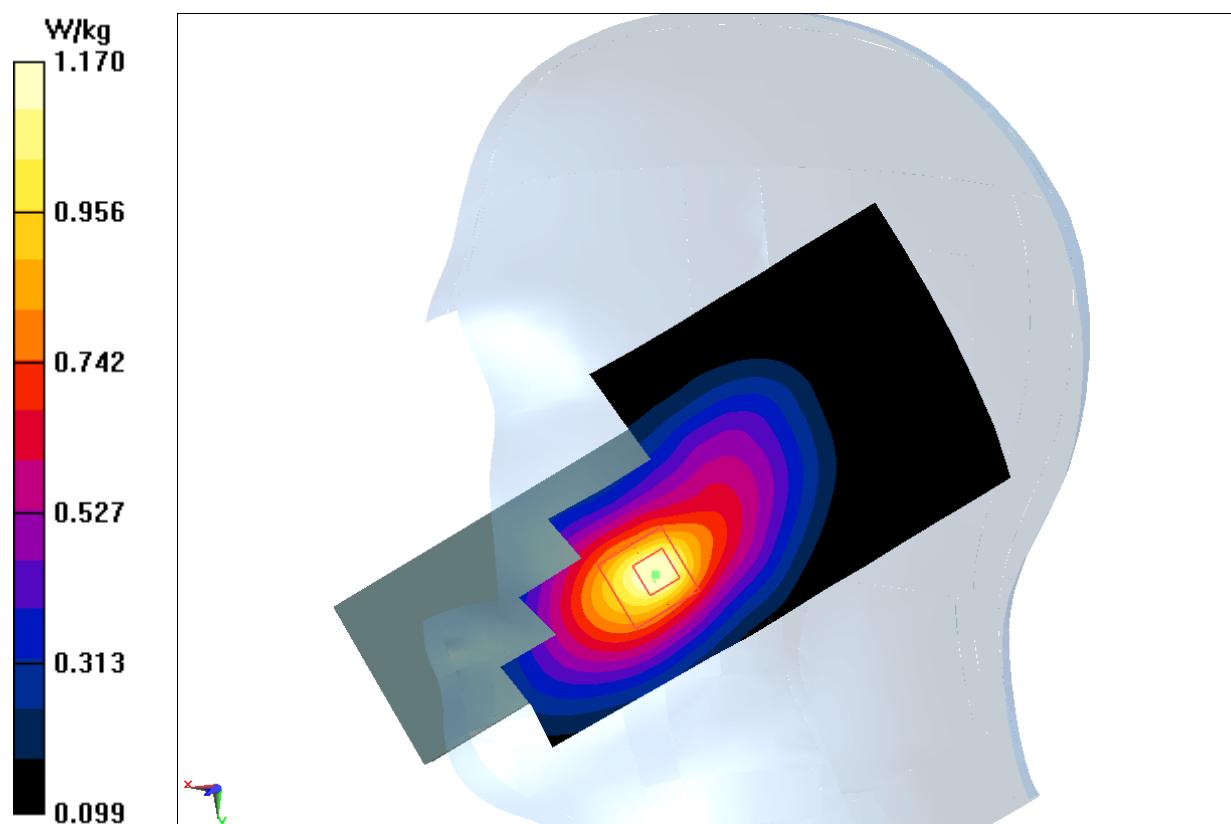


Fig.20 CDMA BC10

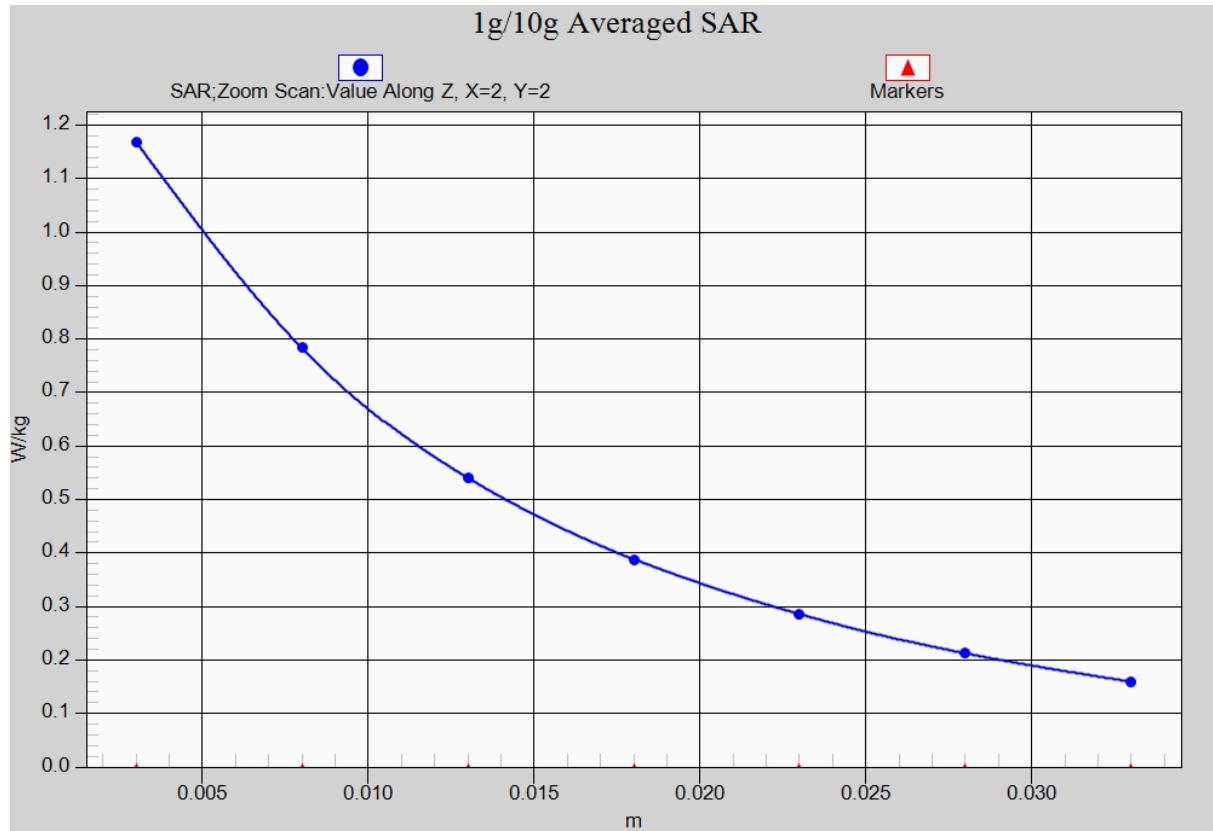


Fig. 20-1 Z-Scan at power reference point (CDMA BC10)

CDMA BC10 Body Rear closed Low – AP OFF

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 817.9$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 56.242$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC1 Frequency: 817.9 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

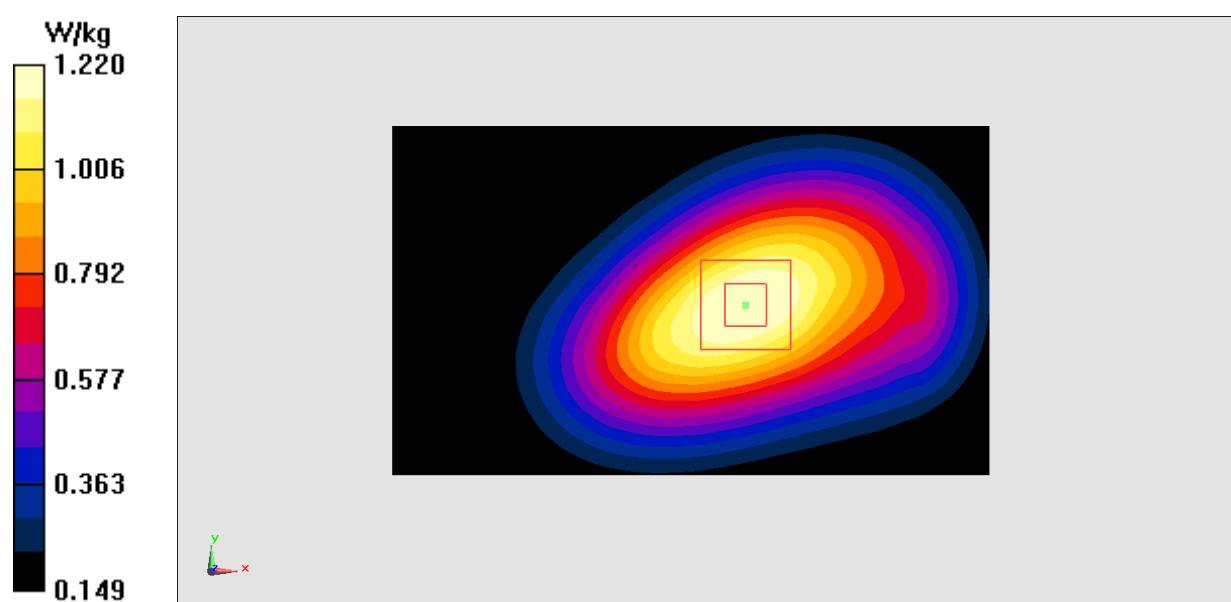
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36.12 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.805 W/kg

Maximum value of SAR (measured) = 1.22 W/kg

**Fig.21 CDMA BC10**

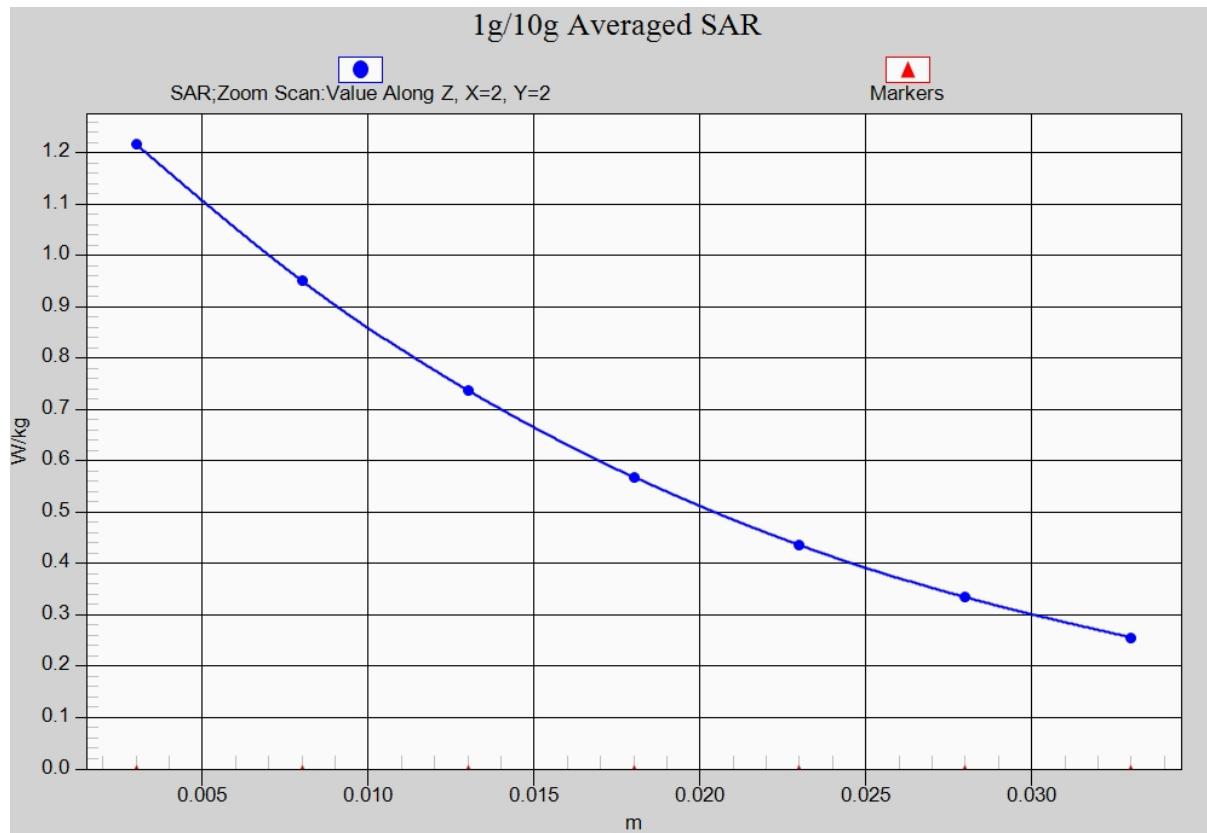


Fig.21-1 Z-Scan at power reference point (CDMA BC10)

CDMA BC10 Body Rear closed Middle – AP ON

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 820.5$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 56.352$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: CDMA BC1 Frequency: 820.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.771 W/kg

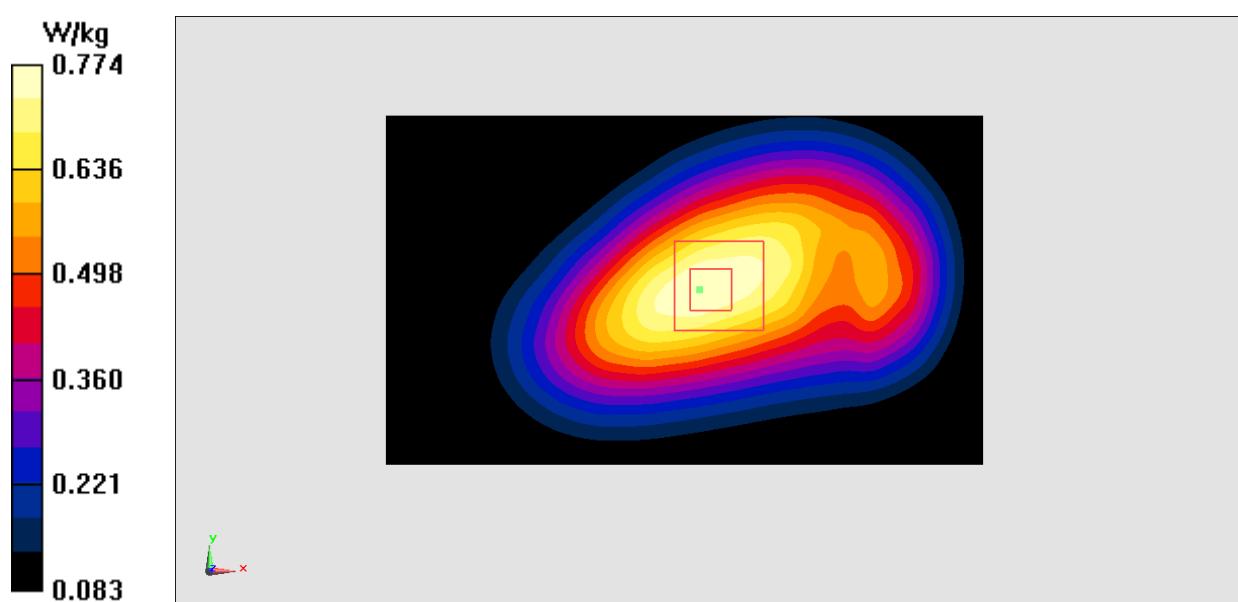
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.33 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.896 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.513 W/kg

Maximum value of SAR (measured) = 0.774 W/kg

**Fig.22 CDMA BC10**

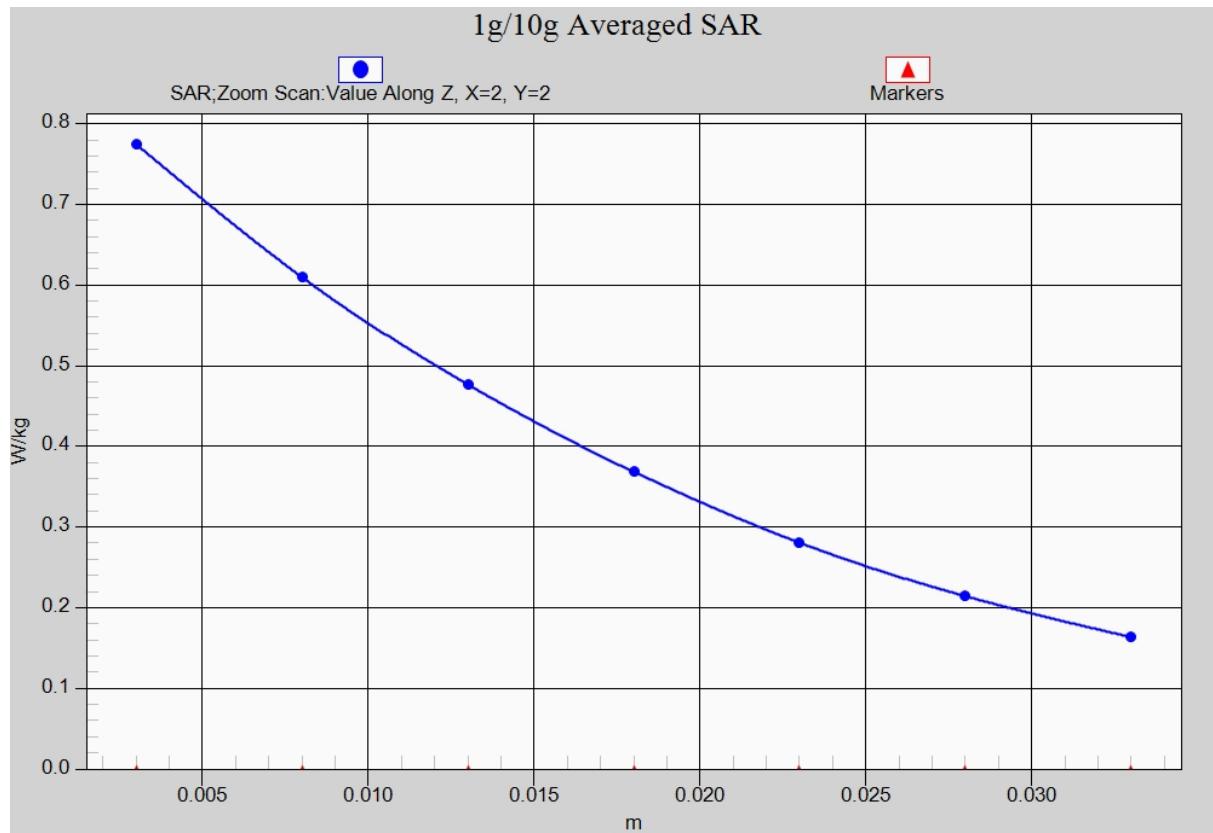


Fig.22-1 Z-Scan at power reference point (CDMA BC10)

LTE Band 25 Left Cheek High with QPSK_20M_1RB_Low

Date: 2016-11-19

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.433 \text{ mho/m}$; $\epsilon_r = 41.083$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band25 Frequency: 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.10, 8.10, 8.10)

Area Scan (61x141x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.561 W/kg

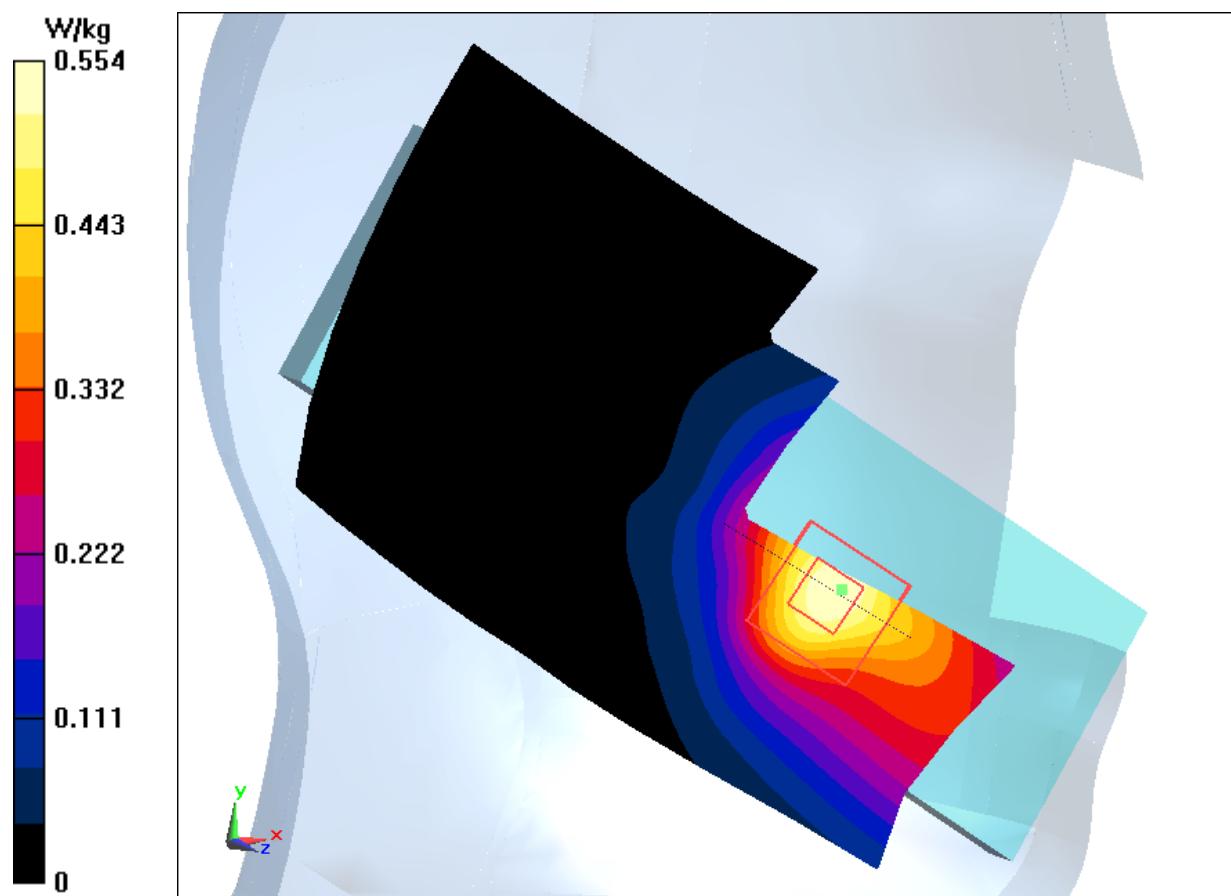
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.501 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.702 W/kg

SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.554 W/kg

**Fig.23 LTE Band 25**

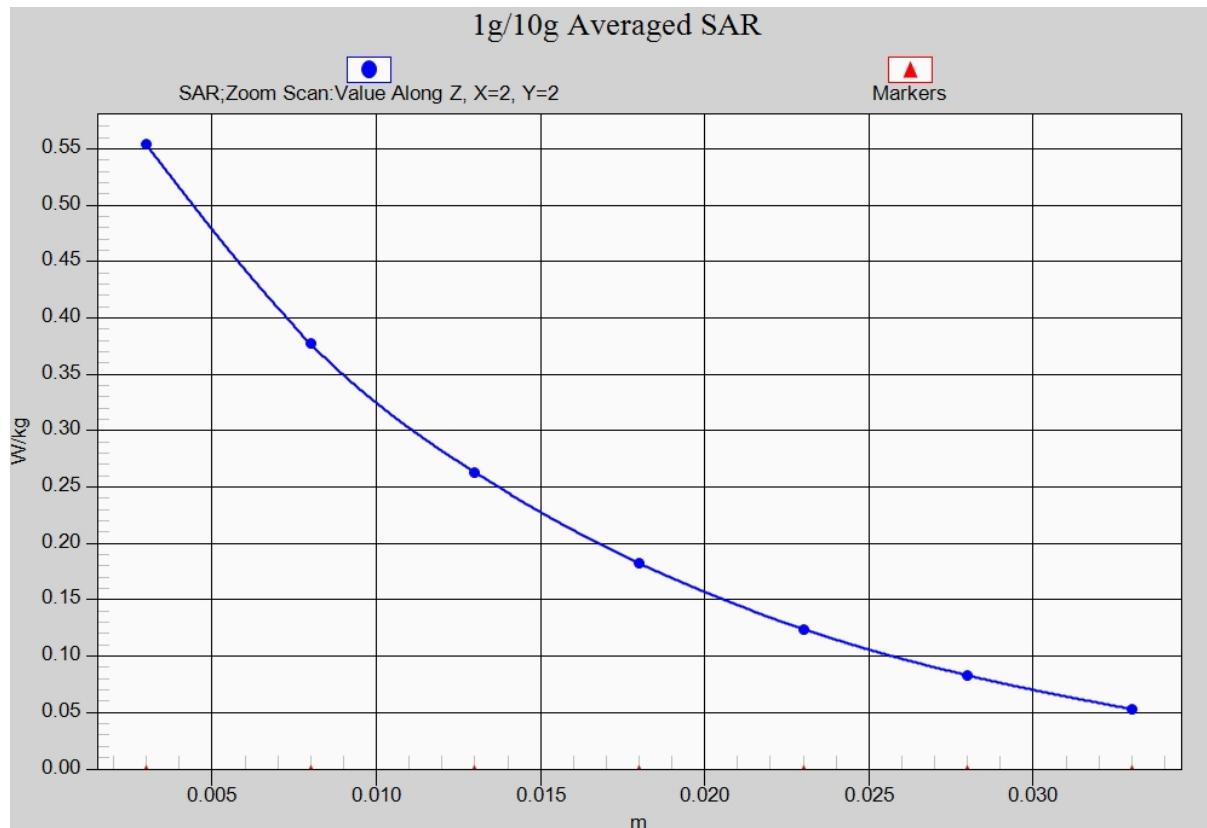


Fig. 23-1 Z-Scan at power reference point (LTE Band25)

LTE Band 25 Body Rear open Middle with QPSK_20M_1RB_Low – AP OFF

Date: 2016-11-19

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.472$ mho/m; $\epsilon_r = 53.842$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band25 Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

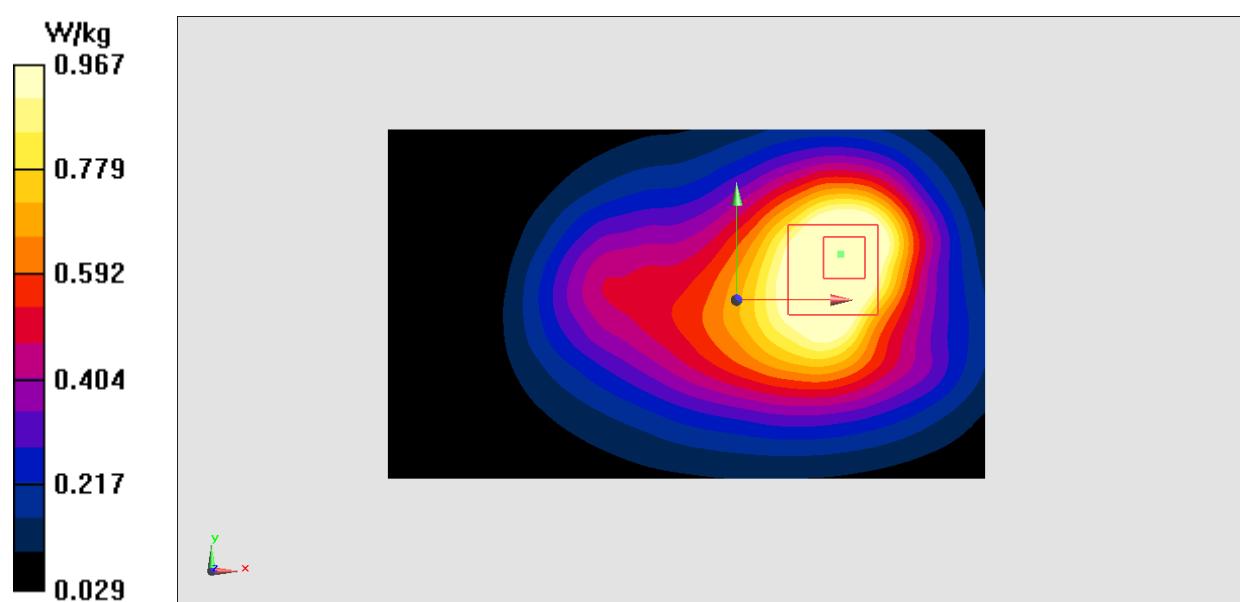
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.50 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.506 W/kg

Maximum value of SAR (measured) = 0.967 W/kg

**Fig.24 LTE Band 25**

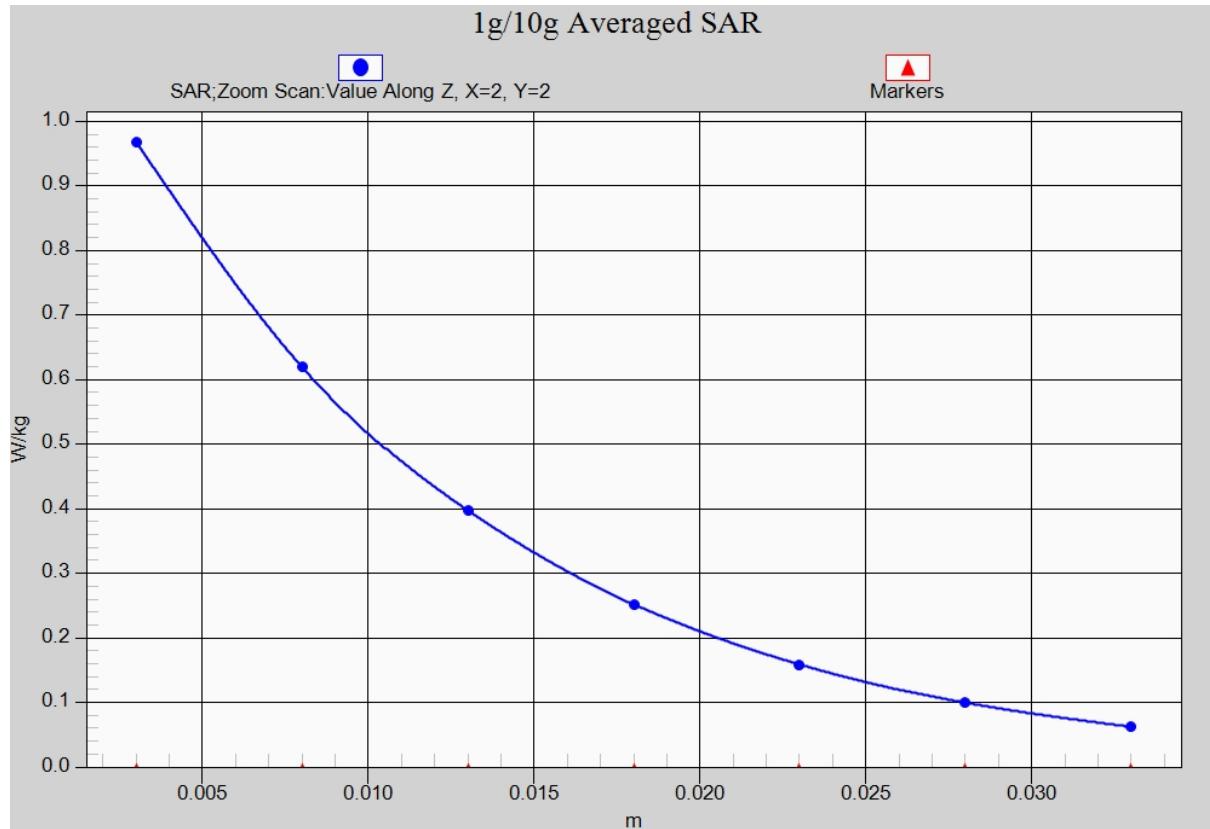


Fig. 24-1 Z-Scan at power reference point (LTE Band25)

LTE Band 25 Body Rear closed High with QPSK_20M_1RB_Low – AP ON

Date: 2016-11-19

Electronics: DAE4 Sn1331

Medium: Body 1900 MHz

Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 53.782$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band25 Frequency: 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.67, 7.67, 7.67)

Area Scan (121x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.17 W/kg

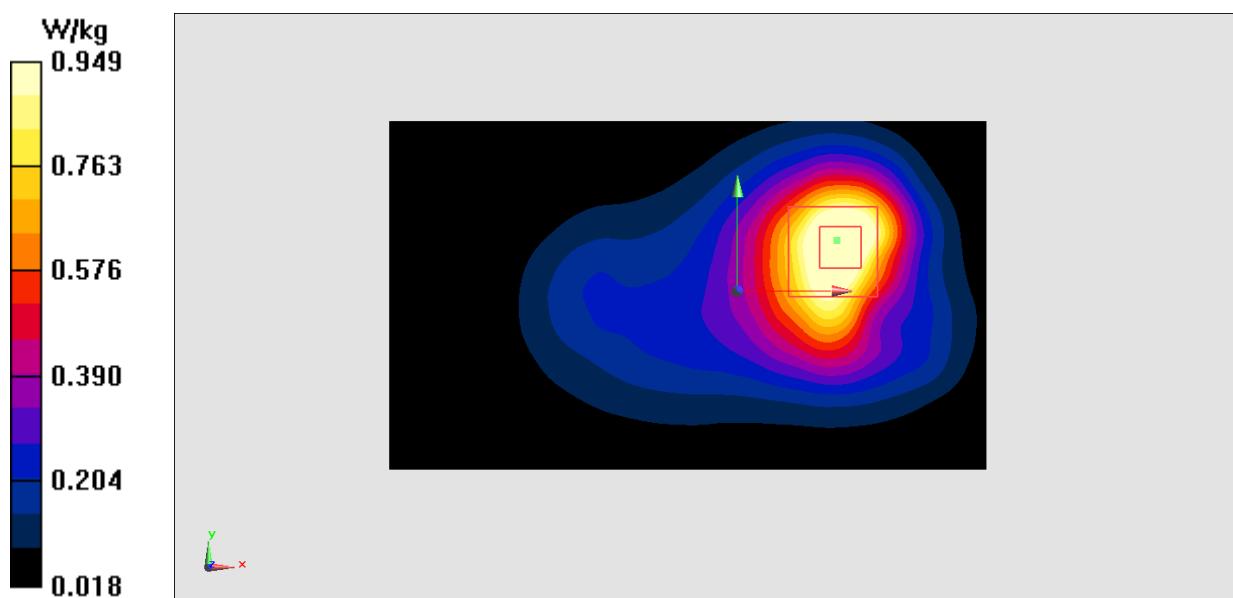
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.71 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.460 W/kg

Maximum value of SAR (measured) = 0.949 W/kg

**Fig.25 LTE Band 25**

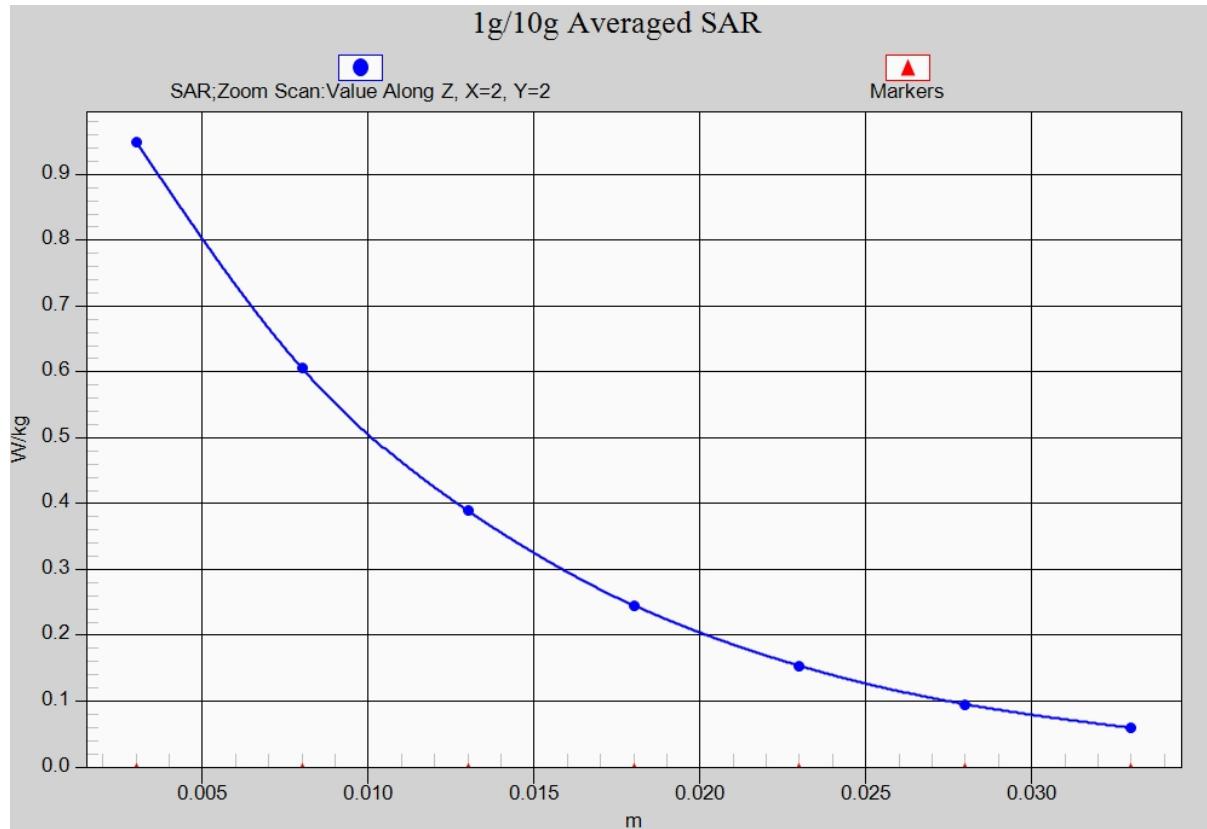


Fig. 25-1 Z-Scan at power reference point (LTE Band25)

LTE Band 26 Right Cheek Low with QPSK_15M_1RB_Low

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used (interpolated): $f = 822.5$ MHz; $\sigma = 0.921$ mho/m; $\epsilon_r = 40.989$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 Frequency: 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(10.01, 10.01, 10.01)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.571 W/kg

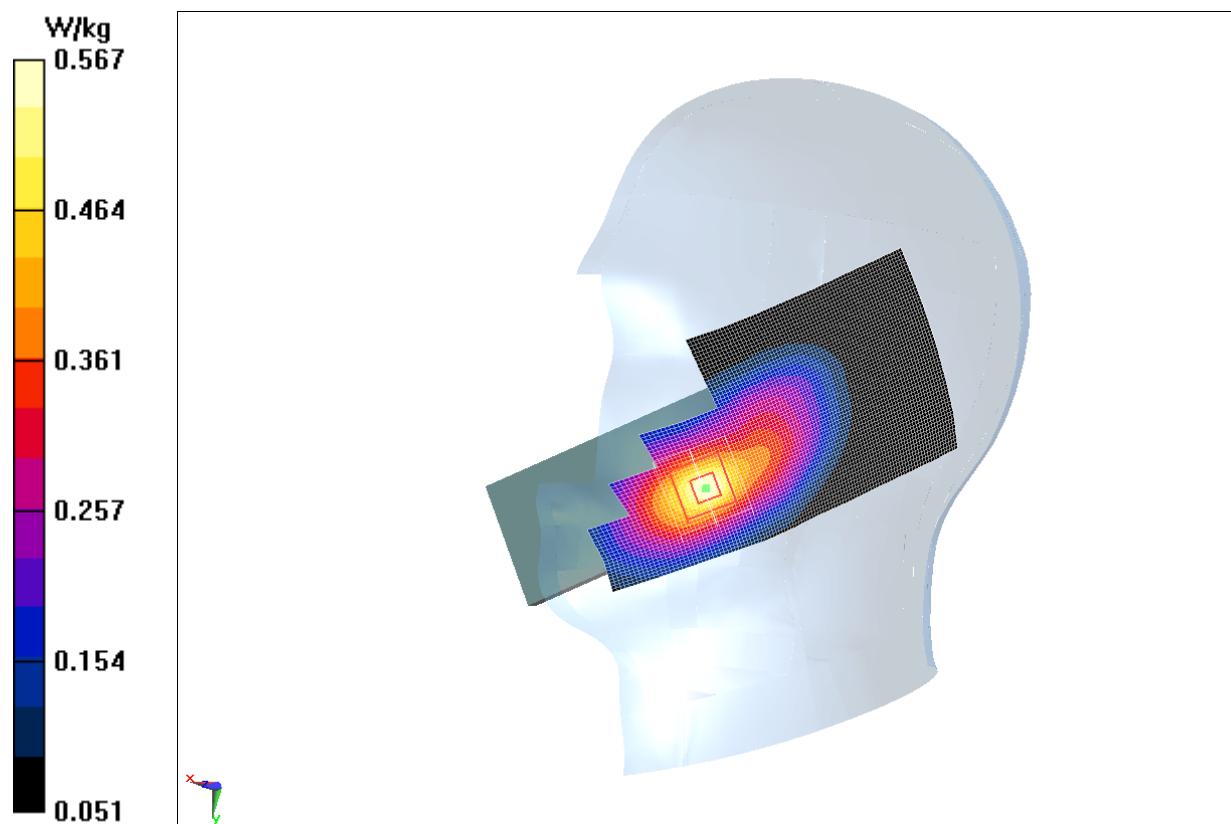
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.785 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.567 W/kg

**Fig.26 LTE Band 26**

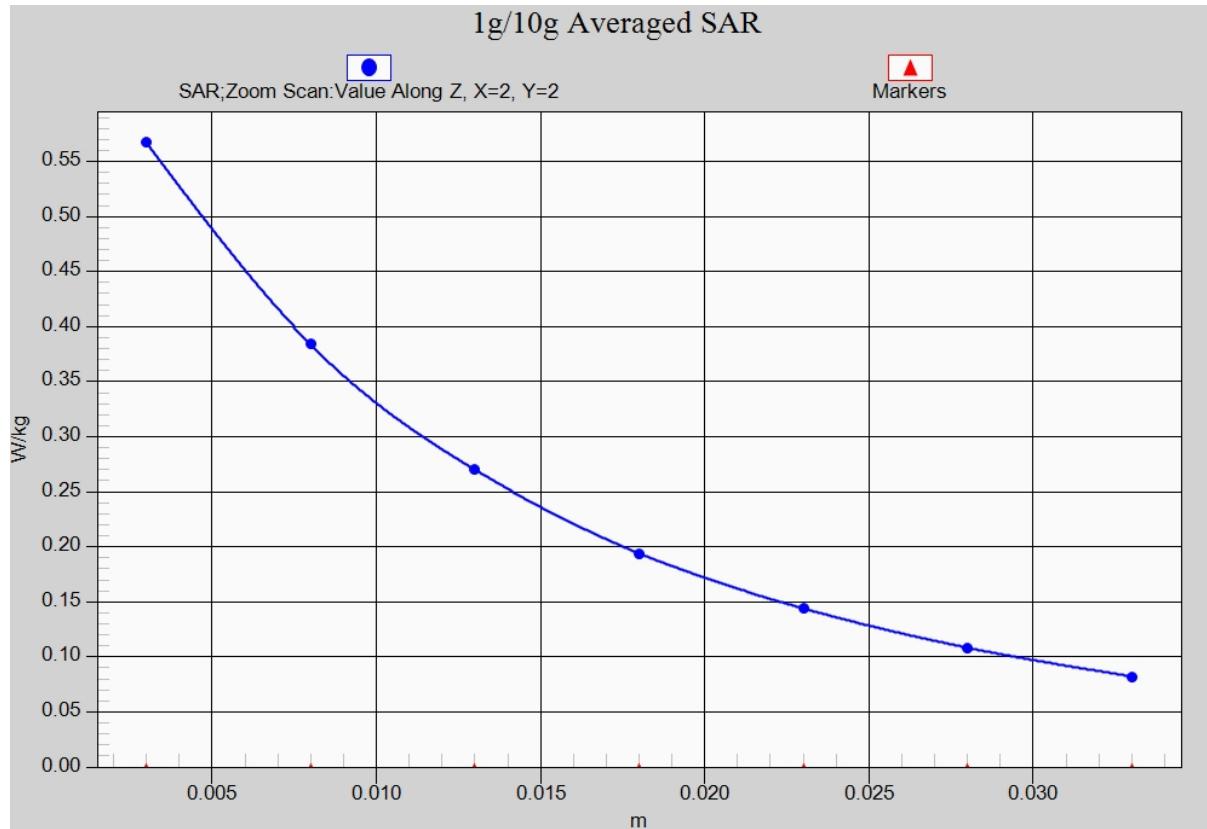


Fig. 26-1 Z-Scan at power reference point (LTE Band26)

LTE Band 26 Body Rear closed Low with QPSK_15M_1RB_Low – AP OFF

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 822.5$ MHz; $\sigma = 0.939$ mho/m; $\epsilon_r = 56.294$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 Frequency: 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.681 W/kg

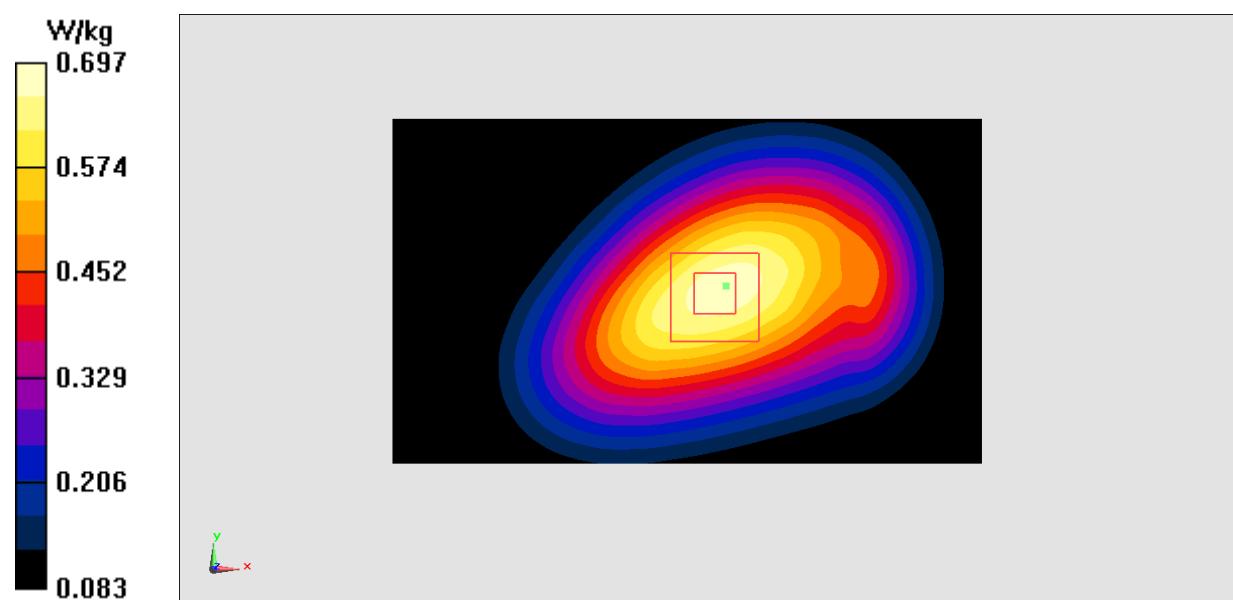
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.72 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.466 W/kg

Maximum value of SAR (measured) = 0.697 W/kg

**Fig.27 LTE Band 26**

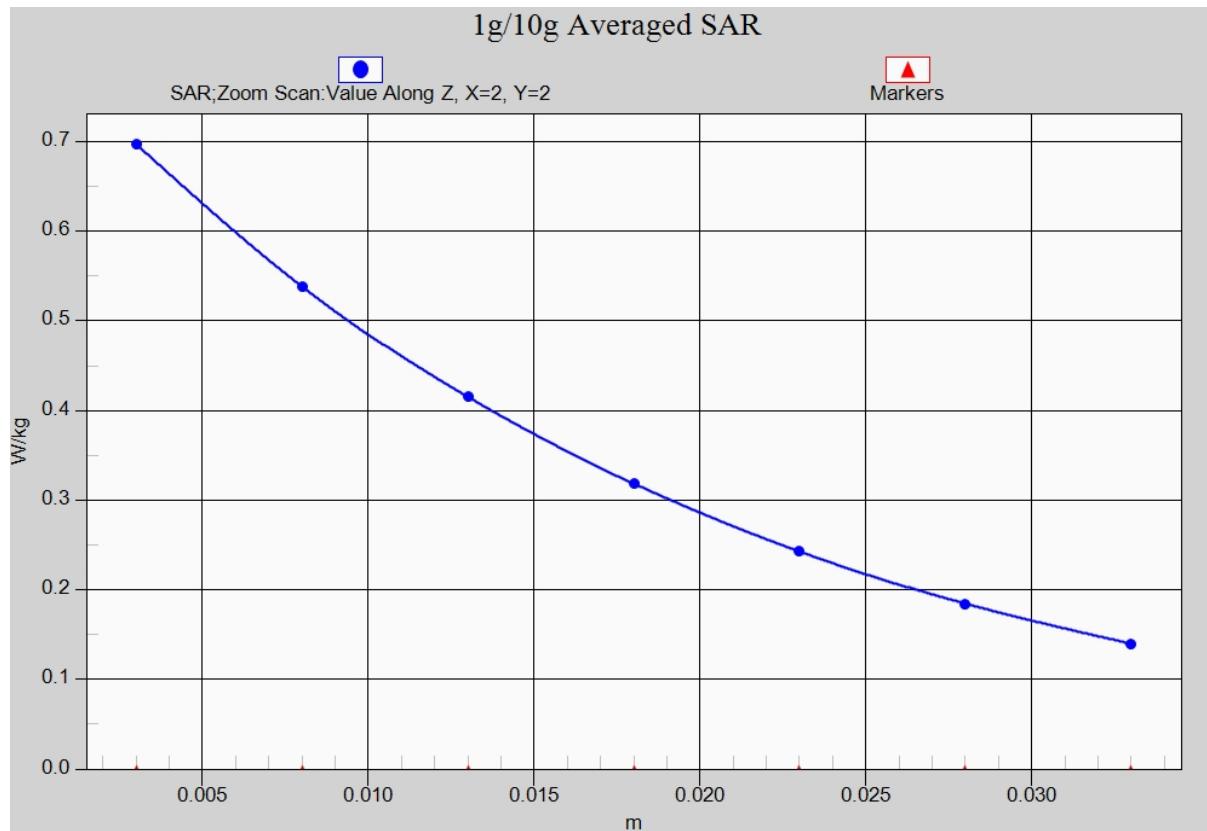


Fig. 27-1 Z-Scan at power reference point (LTE Band26)

LTE Band 26 Body Rear closed Low with QPSK_15M_1RB_Low – AP ON

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used (interpolated): $f = 822.5$ MHz; $\sigma = 0.939$ mho/m; $\epsilon_r = 56.294$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 Frequency: 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(9.83, 9.83, 9.83)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.785 W/kg

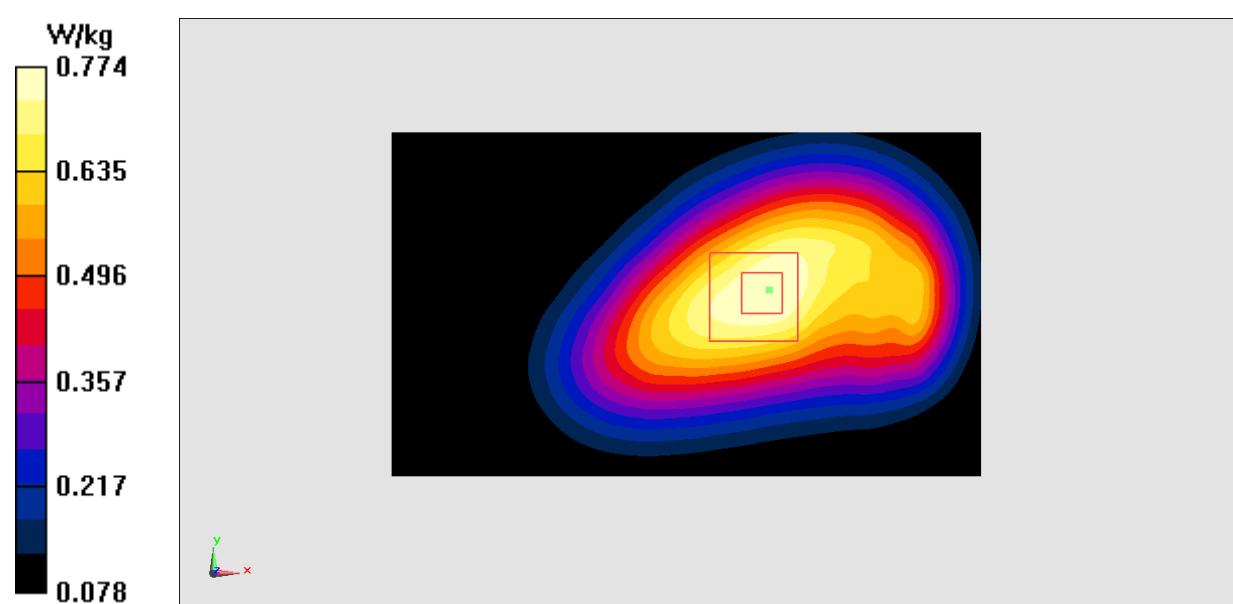
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.47 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.696 W/kg; SAR(10 g) = 0.510 W/kg

Maximum value of SAR (measured) = 0.774 W/kg

**Fig.28 LTE Band 26**

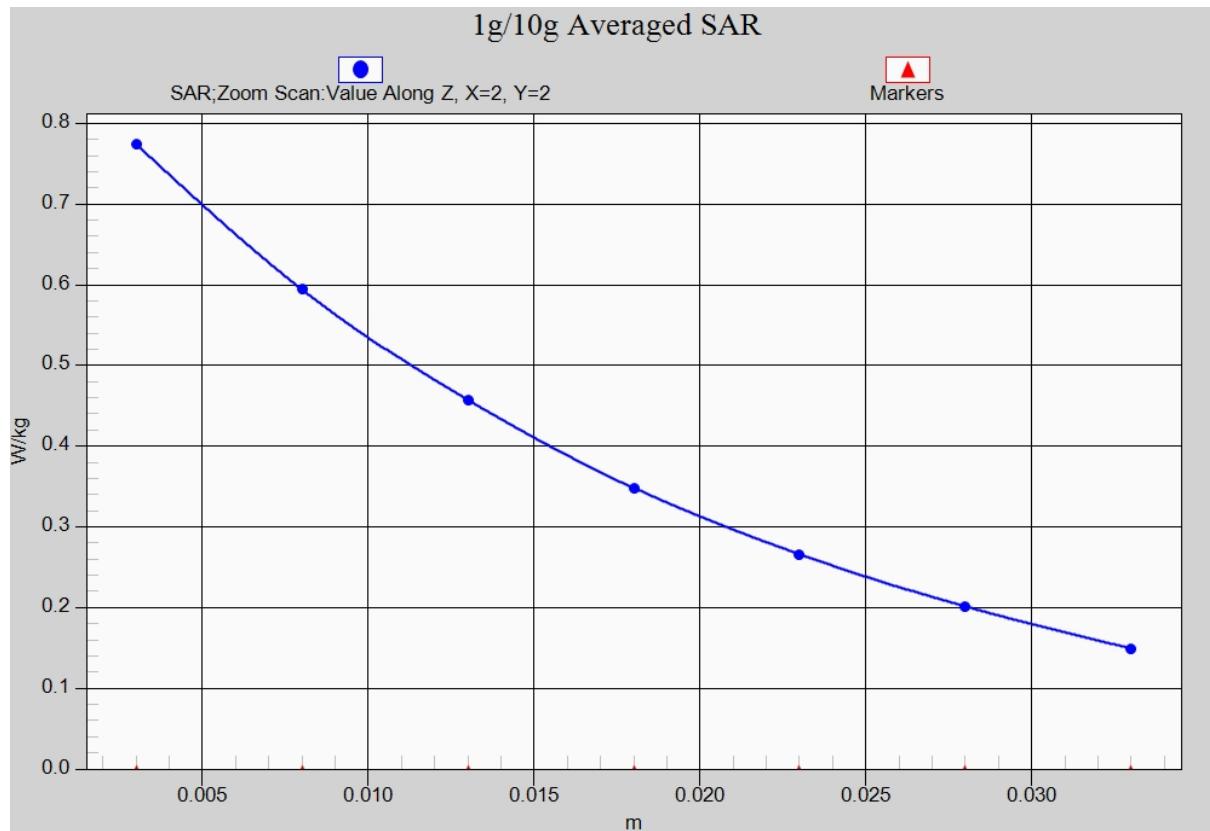


Fig. 28-1 Z-Scan at power reference point (LTE Band26)

LTE Band 41 Left Cheek High with QPSK_20M_1RB_Low

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Head 2600 MHz

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.068$ mho/m; $\epsilon_r = 36.921$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 Frequency: 2680 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.21, 7.21, 7.21)

Area Scan (61x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.290 W/kg

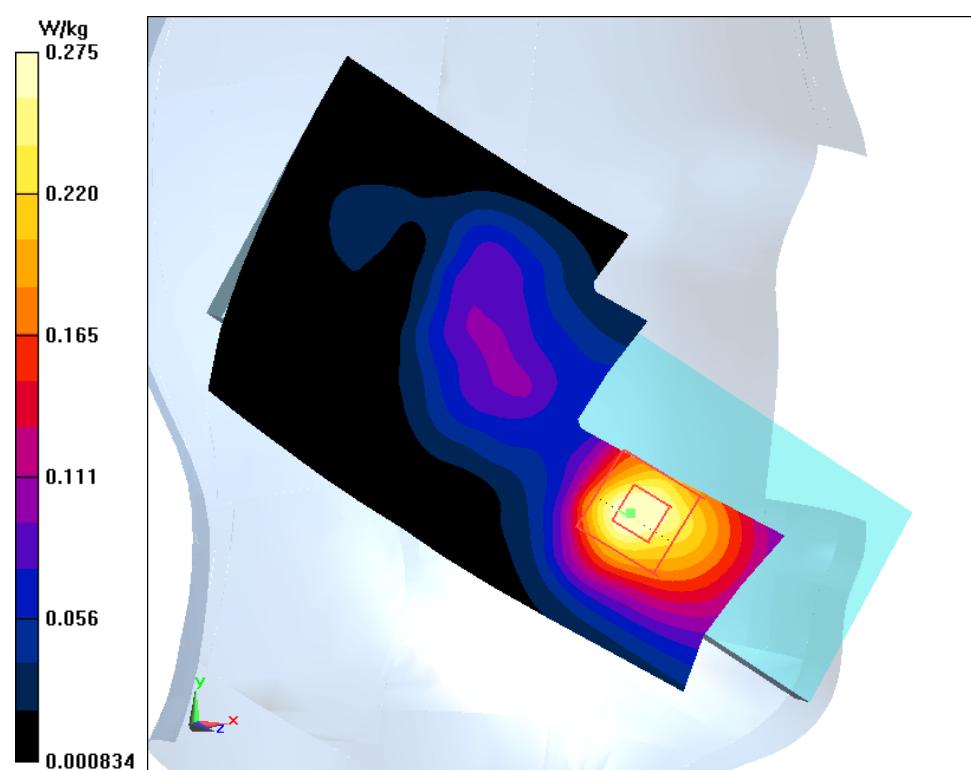
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.931 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.120 W/kg

Maximum value of SAR (measured) = 0.275 W/kg

**Fig.29 LTE Band 41**

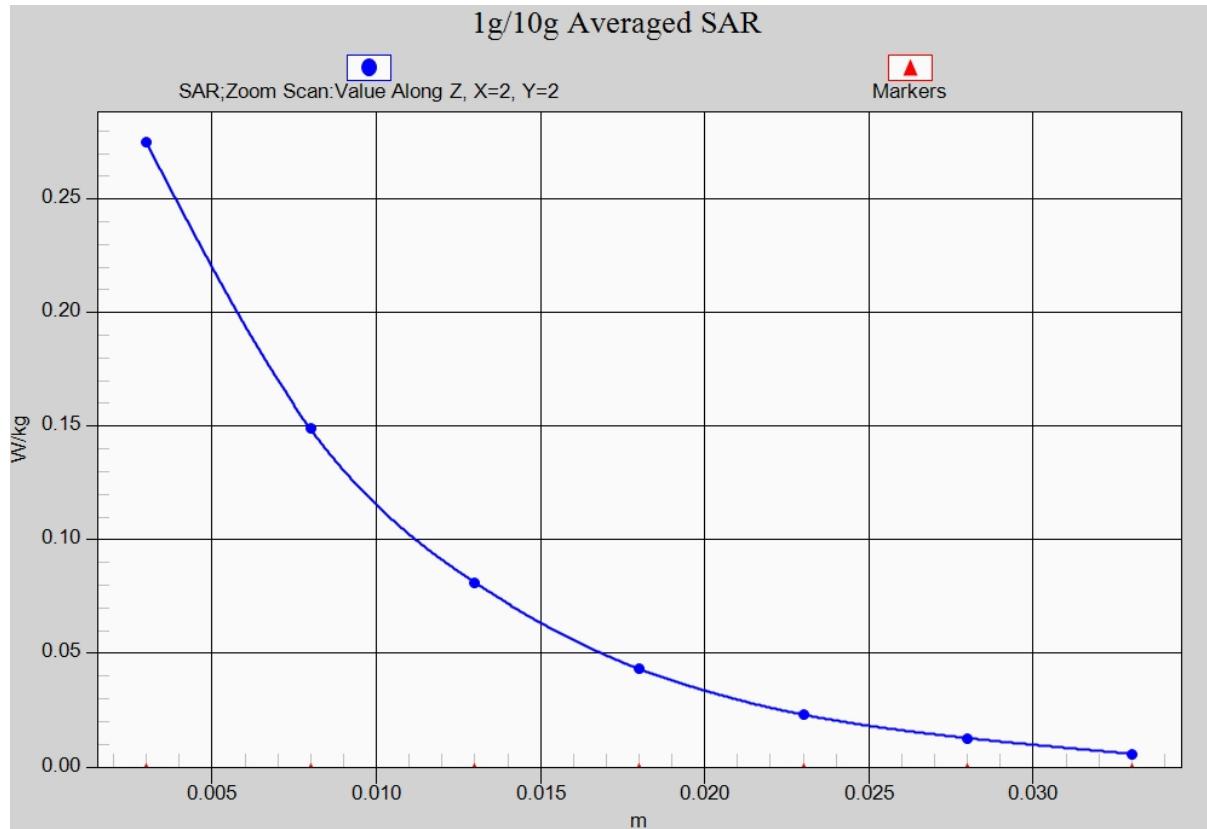


Fig. 29-1 Z-Scan at power reference point (LTE Band 41)

LTE Band 41 Body Rear open High with QPSK_20M_1RB_Low

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Body 2600 MHz

Medium parameters use: $f = 2680$ MHz; $\sigma = 2.332$ mho/m; $\epsilon_r = 49.54$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 Frequency: 2680 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.03, 7.03, 7.03)

Area Scan (121x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.662 W/kg

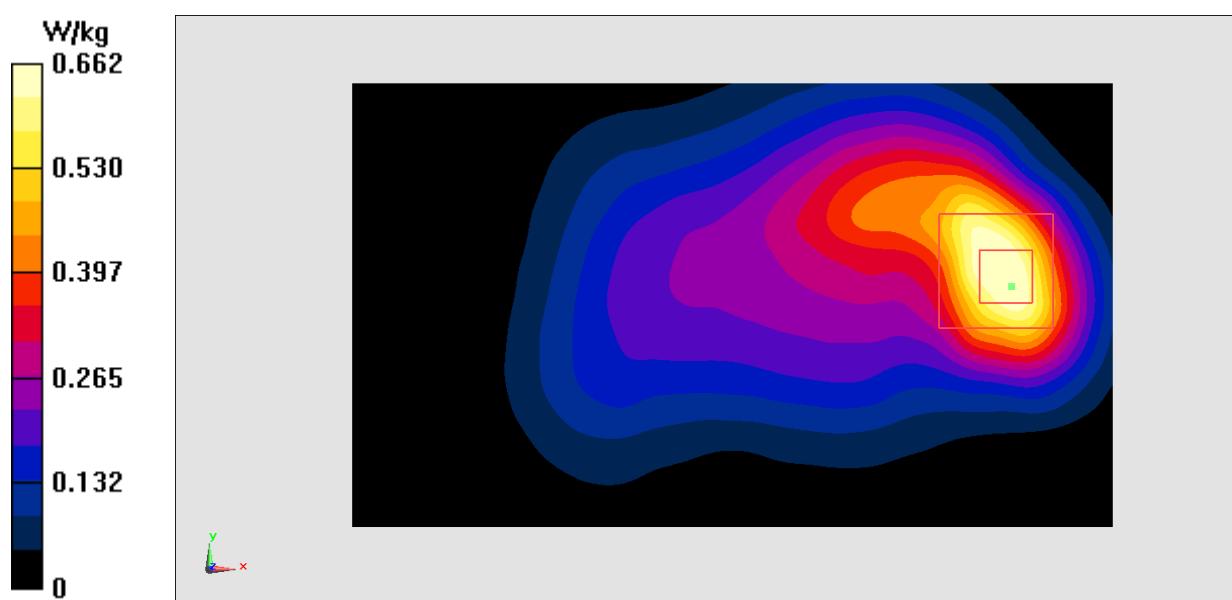
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.781 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.250 W/kg

Maximum value of SAR (measured) = 0.681 W/kg

**Fig.30 LTE Band 41**

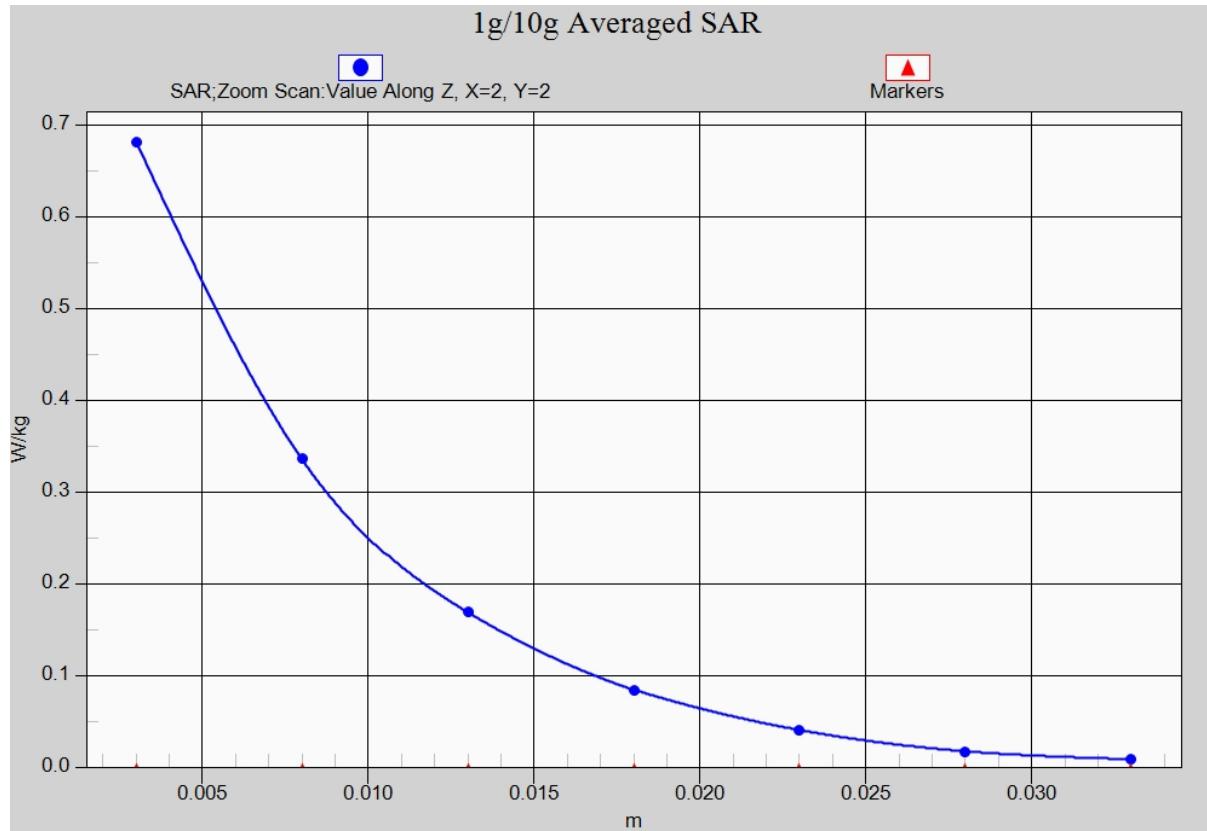


Fig. 30-1 Z-Scan at power reference point (LTE Band 41)

BLUETOOTH HEAD

Date: 2016-11-15

Electronics: DAE4 Sn1331

Medium: Head 2450 MHz

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.812$ mho/m; $\epsilon_r = 39.15$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.0°C, Liquid Temperature: 22.5°C

Communication System: Bluetooth Frequency: 2441MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7307 ConvF(8.36, 8.36, 8.36)

Area Scan (61x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0334 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm

Reference Value = 0.9860 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0260 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.00815 W/kg

Maximum value of SAR (measured) = 0.0183 W/kg

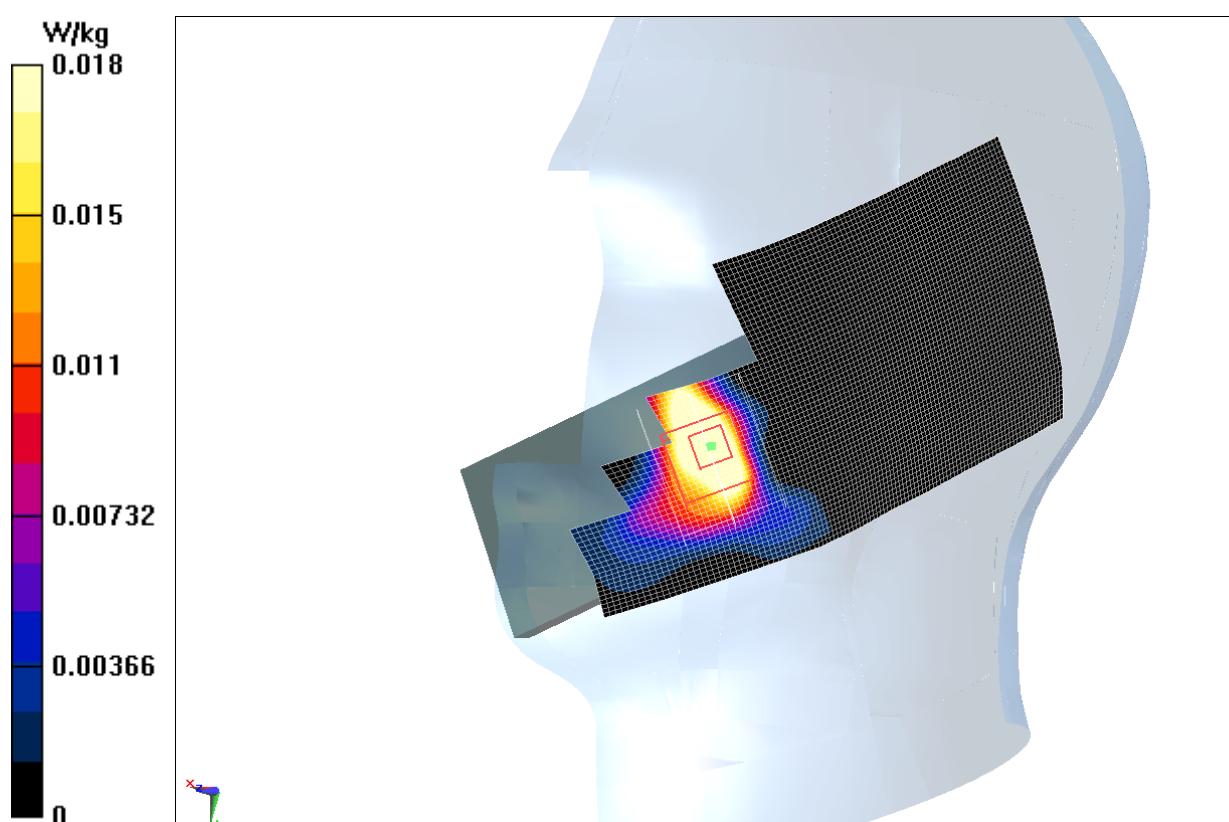


Figure.31 Bluetooth

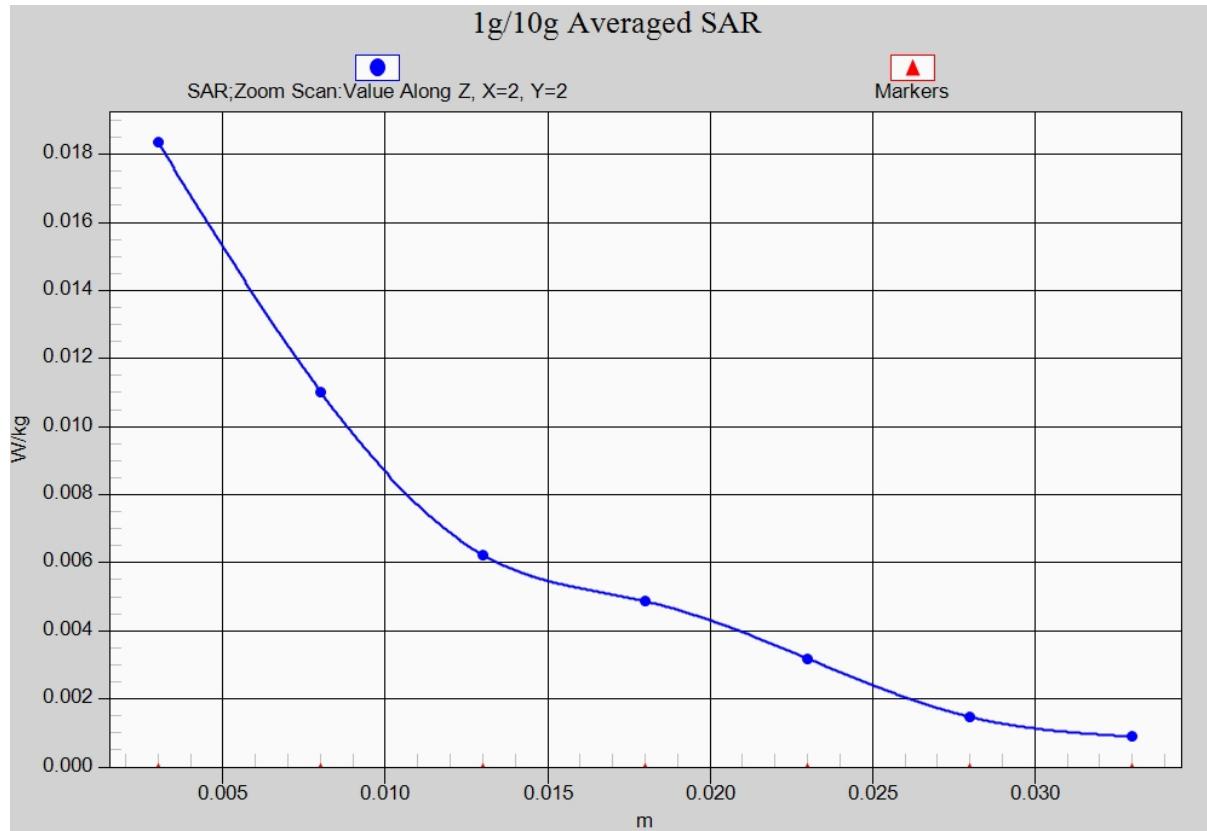


Figure.31-1 Bluetooth

Wifi 802.11b Right Cheek Channel 6

Date: 2016-11-15

Electronics: DAE4 Sn1331

Medium: Head 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.164$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WLan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(8.36, 8.36, 8.36)

Area Scan (71x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.419 W/kg

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

Reference Value = 1.408 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.556 W/kg

SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.174 W/kg

Maximum value of SAR (measured) = 0.385 W/kg

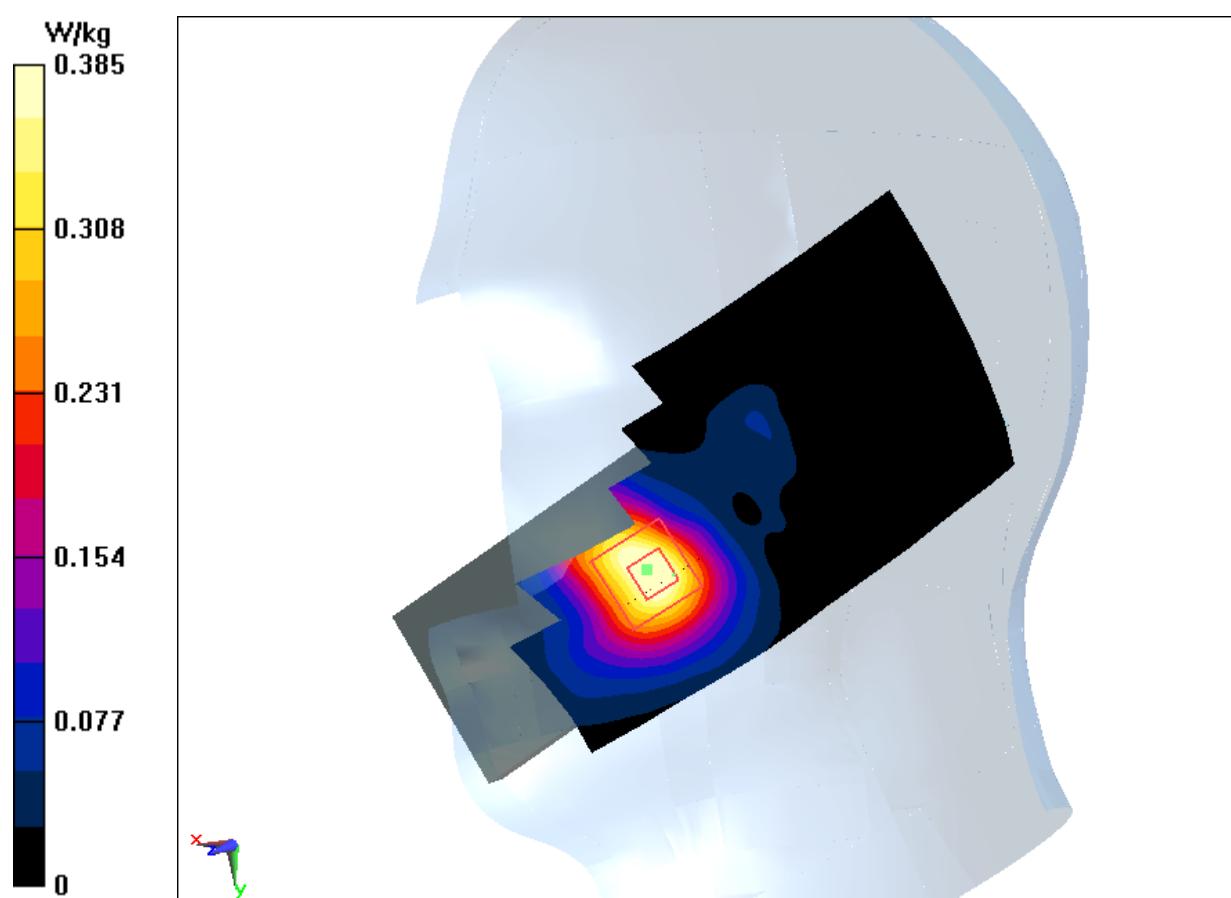


Fig.32 2450 MHz

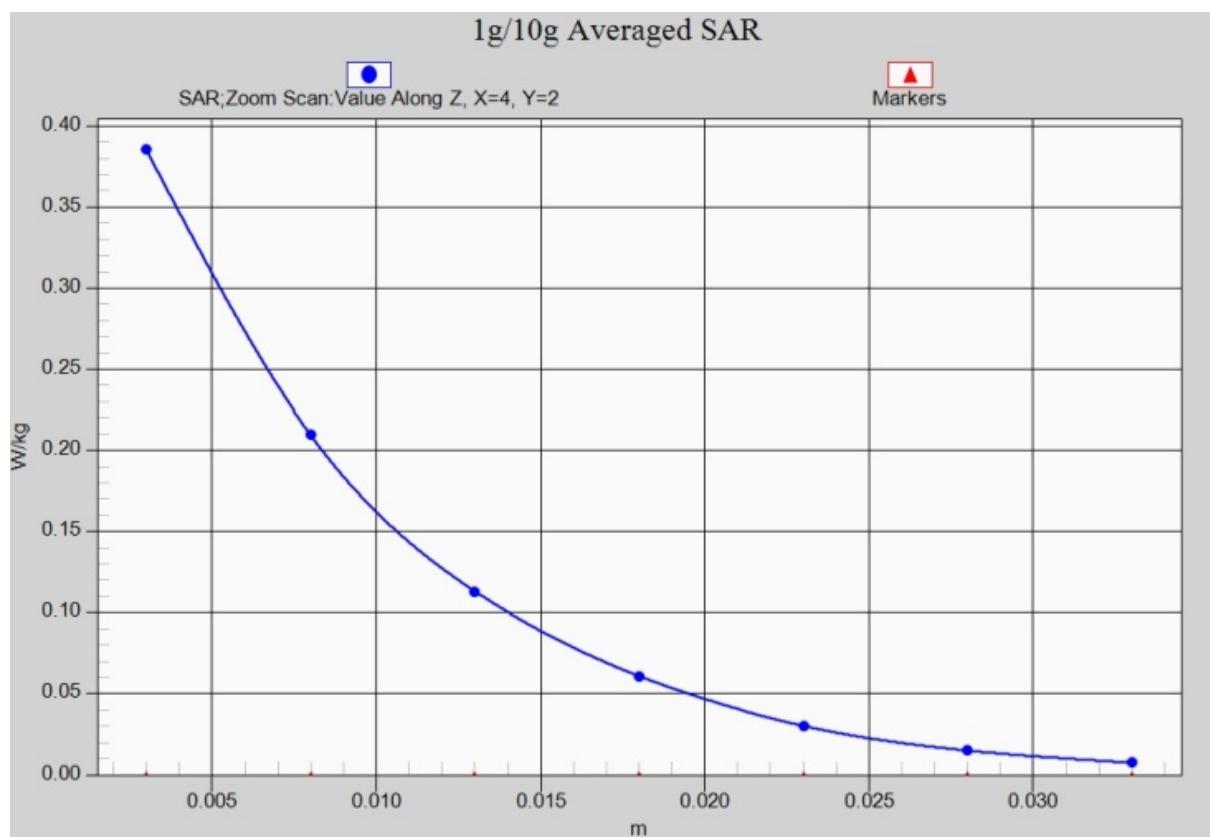


Fig. 32-1 Z-Scan at power reference point (2450 MHz)

Wifi 802.11b Body Rear open Channel 6

Date: 2016-11-15

Electronics: DAE4 Sn1331

Medium: Body 2450 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.964$ S/m; $\epsilon_r = 52.78$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.0°C Liquid Temperature: 22.5°C

Communication System: WLan 2450 Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7307 ConvF(7.22, 7.22, 7.22)

Area Scan (141x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.233 W/kg

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

Reference Value = 7.066 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.216 W/kg

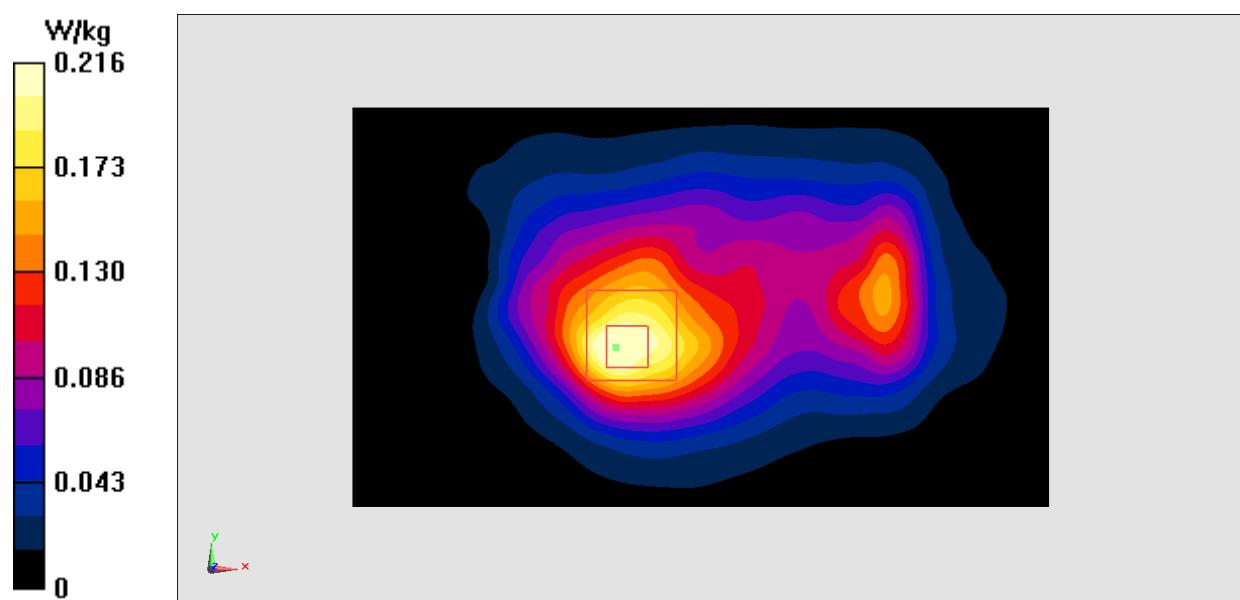


Fig.33 2450 MHz

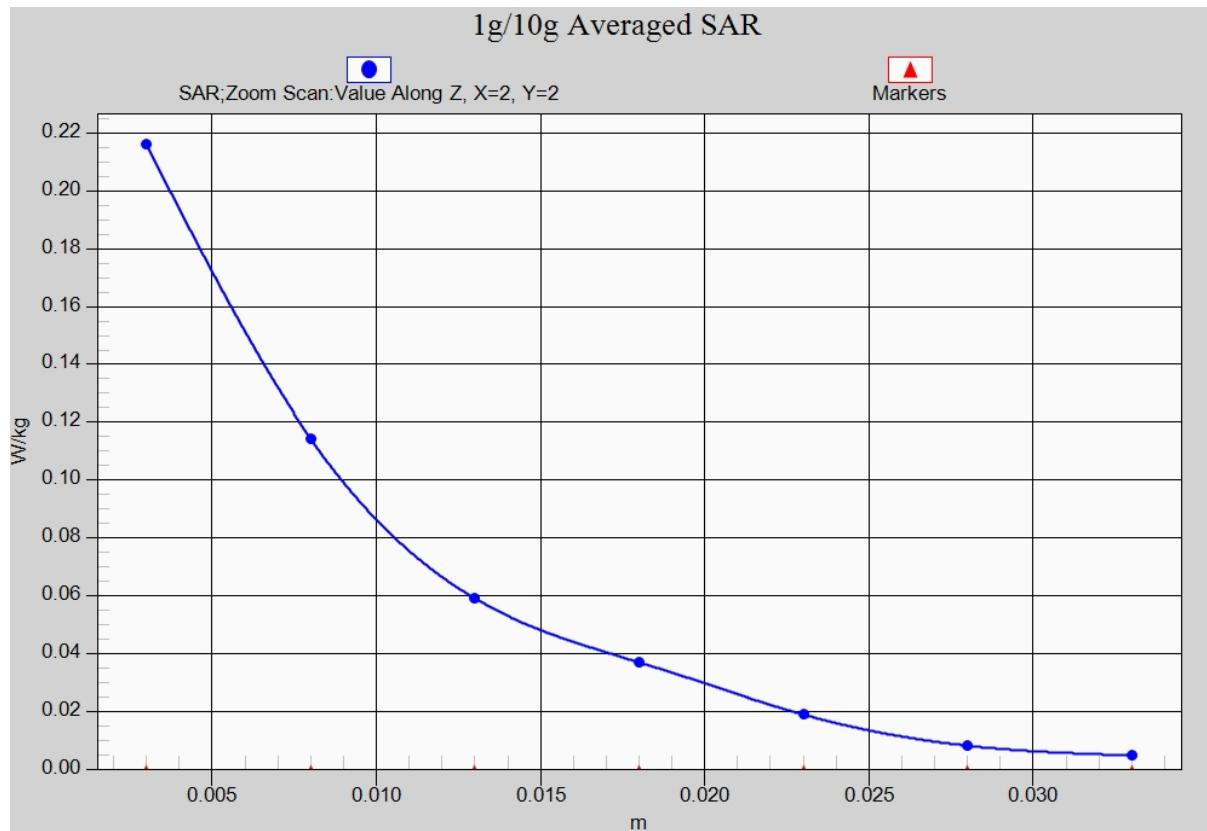


Fig. 33-1 Z-Scan at power reference point (2450 MHz)

ANNEX B System Verification Results

835MHz

Date: 2016-11-16

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 41.01$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(10.01, 10.01, 10.01)

System Validation/Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 55.16 V/m; Power Drift = -0.08 dB

Fast SAR: $\text{SAR}(1 \text{ g}) = 2.46 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 1.61 \text{ W/kg}$

Maximum value of SAR (interpolated) = 2.61 W/kg

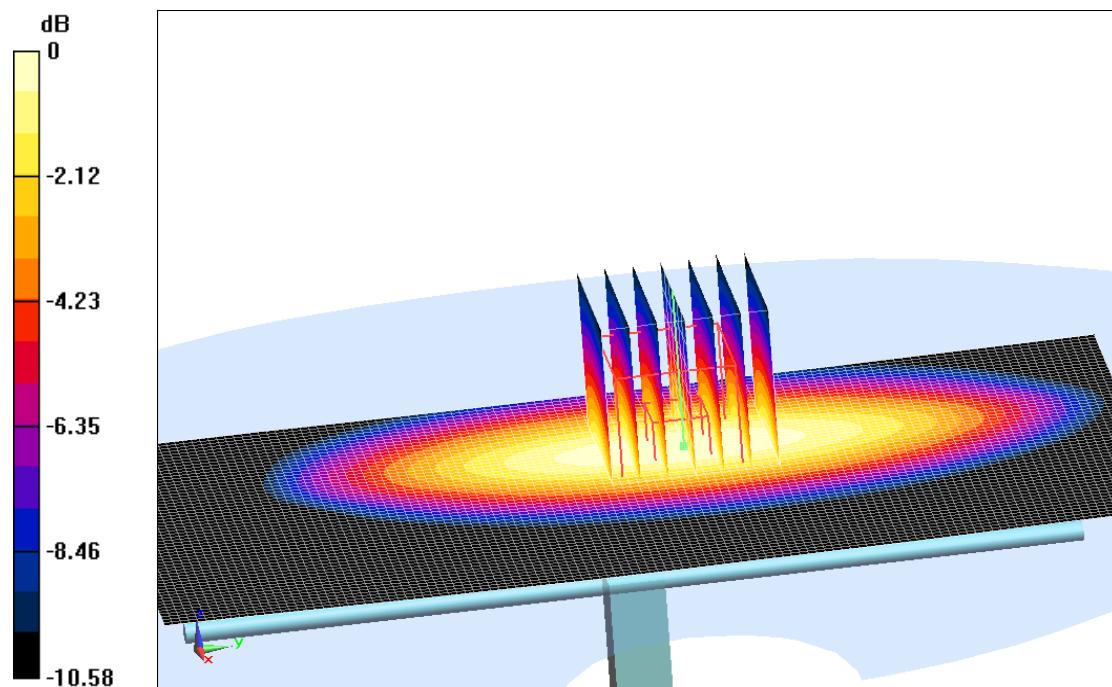
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.16 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.55 W/kg

Maximum value of SAR (measured) = 2.54 W/kg



$$0 \text{ dB} = 2.54 \text{ W/kg} = 4.05 \text{ dBW/kg}$$

Fig.B.1 validation 835MHz 250mW

835MHz

Date: 2016-11-16

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.941 \text{ S/m}$; $\epsilon_r = 56.03$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(9.83, 9.83, 9.83)

System Validation /Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 52.72 V/m; Power Drift = -0.05 dB

Fast SAR: $\text{SAR}(1 \text{ g}) = 2.38 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 1.55 \text{ W/kg}$

Maximum value of SAR (interpolated) = 2.66 W/kg

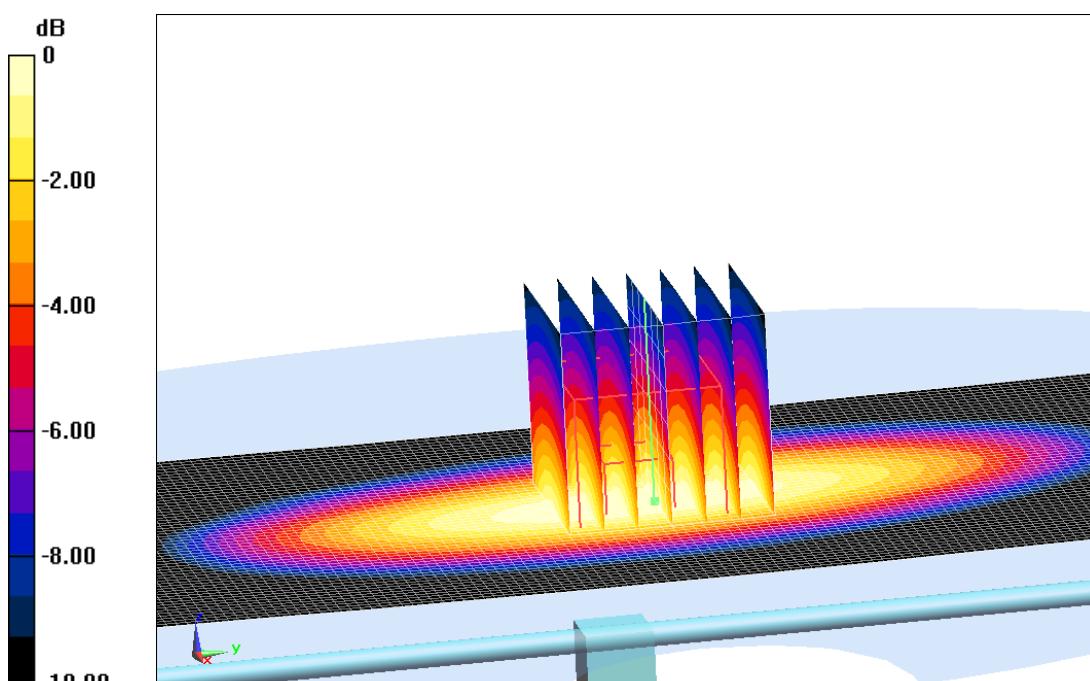
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.72 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 2.69 W/kg



$$0 \text{ dB} = 2.69 \text{ W/kg} = 4.30 \text{ dBW/kg}$$

Fig.B.2 validation 835MHz 250mW

835MHz

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Head 850 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.932 \text{ S/m}$; $\epsilon_r = 40.84$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(10.01, 10.01, 10.01)

System Validation/Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 54.31 V/m; Power Drift = -0.06 dB

Fast SAR: $\text{SAR}(1 \text{ g}) = 2.37 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 1.54 \text{ W/kg}$

Maximum value of SAR (interpolated) = 2.52 W/kg

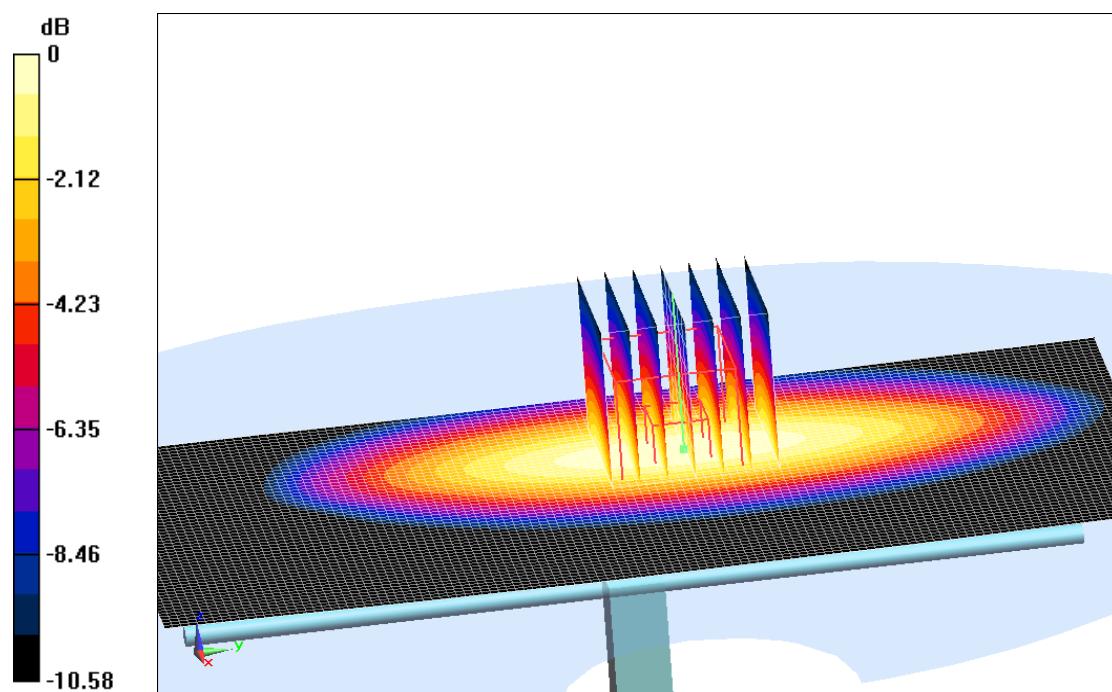
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.31 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.09 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.5 W/kg

Maximum value of SAR (measured) = 2.46 W/kg



$$0 \text{ dB} = 2.46 \text{ W/kg} = 3.91 \text{ dBW/kg}$$

Fig.B.3 validation 835MHz 250mW

835MHz

Date: 2016-11-17

Electronics: DAE4 Sn1331

Medium: Body 850 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.947 \text{ S/m}$; $\epsilon_r = 56.11$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(9.83, 9.83, 9.83)

System Validation /Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 52.093 V/m; Power Drift = 0.08 dB

Fast SAR: $\text{SAR}(1 \text{ g}) = 2.34 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 1.51 \text{ W/kg}$

Maximum value of SAR (interpolated) = 2.63 W/kg

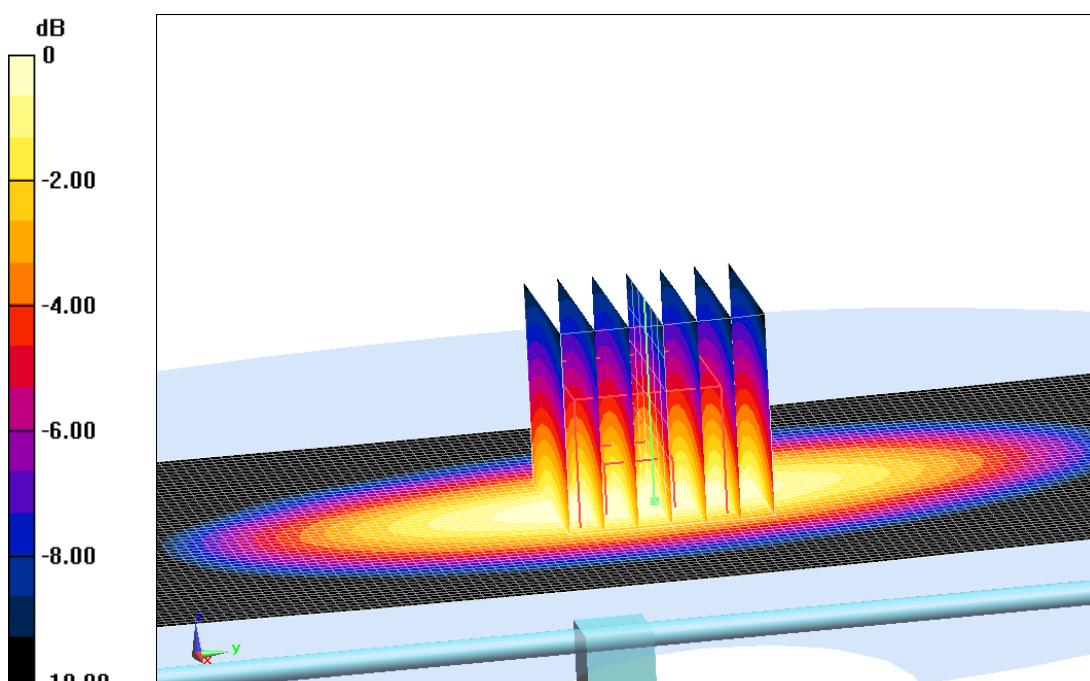
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.093 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.65 W/kg



$$0 \text{ dB} = 2.65 \text{ W/kg} = 4.23 \text{ dBW/kg}$$

Fig.B.4 validation 835MHz 250mW

1750MHz

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Head 1750 MHz

Medium parameters used: $f=1750 \text{ MHz}$; $\sigma = 1.356 \text{ mho/m}$; $\epsilon_r = 39.43$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(8.37, 8.37, 8.37)

System Validation/Area Scan (81x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 87.633 V/m; Power Drift = -0.05 dB

Fast SAR: $\text{SAR}(1 \text{ g}) = 8.93 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 4.69 \text{ W/kg}$

Maximum value of SAR (interpolated) = 9.80 W/kg

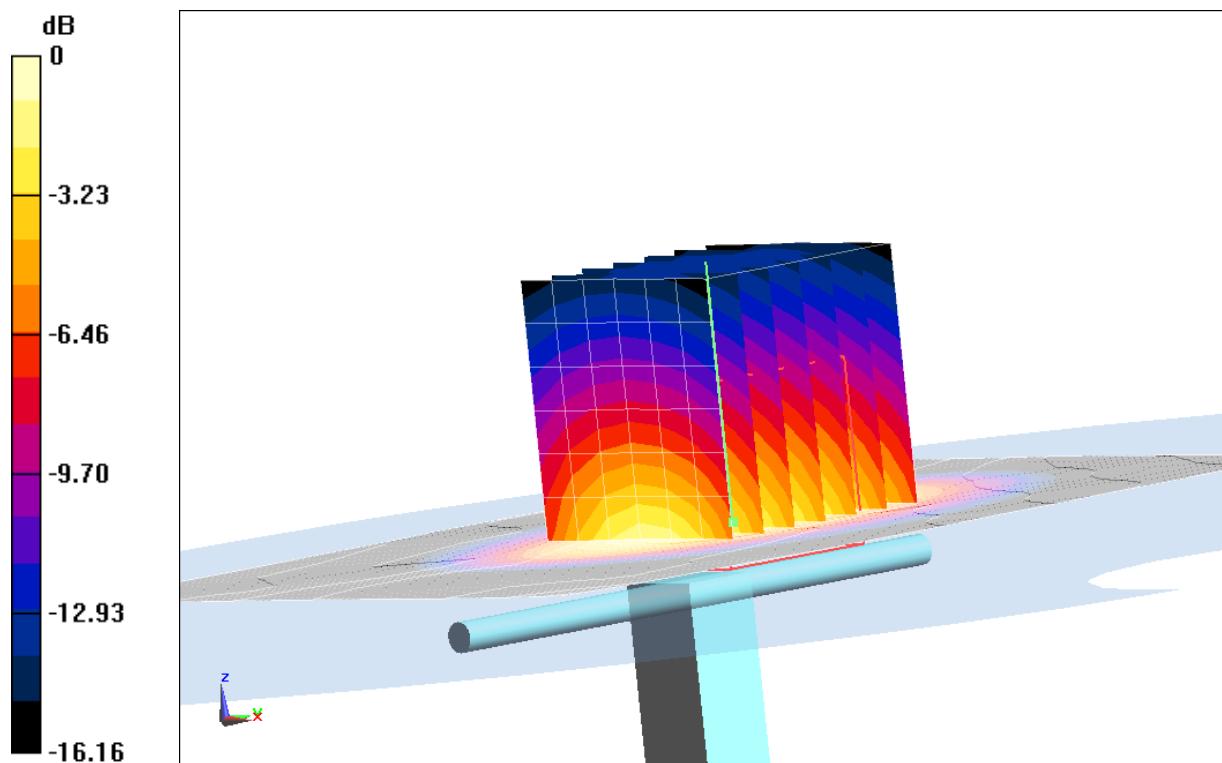
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 87.633 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 15.41 W/kg

SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.73 W/kg

Maximum value of SAR (measured) = 9.85 W/kg



0 dB = 9.85W/kg = 9.93 dB W/kg

Fig.B.5 validation 1750MHz 250mW

1750MHz

Date: 2016-11-20

Electronics: DAE4 Sn1331

Medium: Body 1750 MHz

Medium parameters used: $f=1750$ MHz; $\sigma = 1.525$ mho/m; $\epsilon_r = 54.01$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(8.18, 8.18, 8.18)

System Validation/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 94.378 V/m; Power Drift = 0.06 dB

Fast SAR: SAR(1 g) = 9.52 W/kg; SAR(10 g) = 5.12 W/kg

Maximum value of SAR (interpolated) = 10.4 W/kg

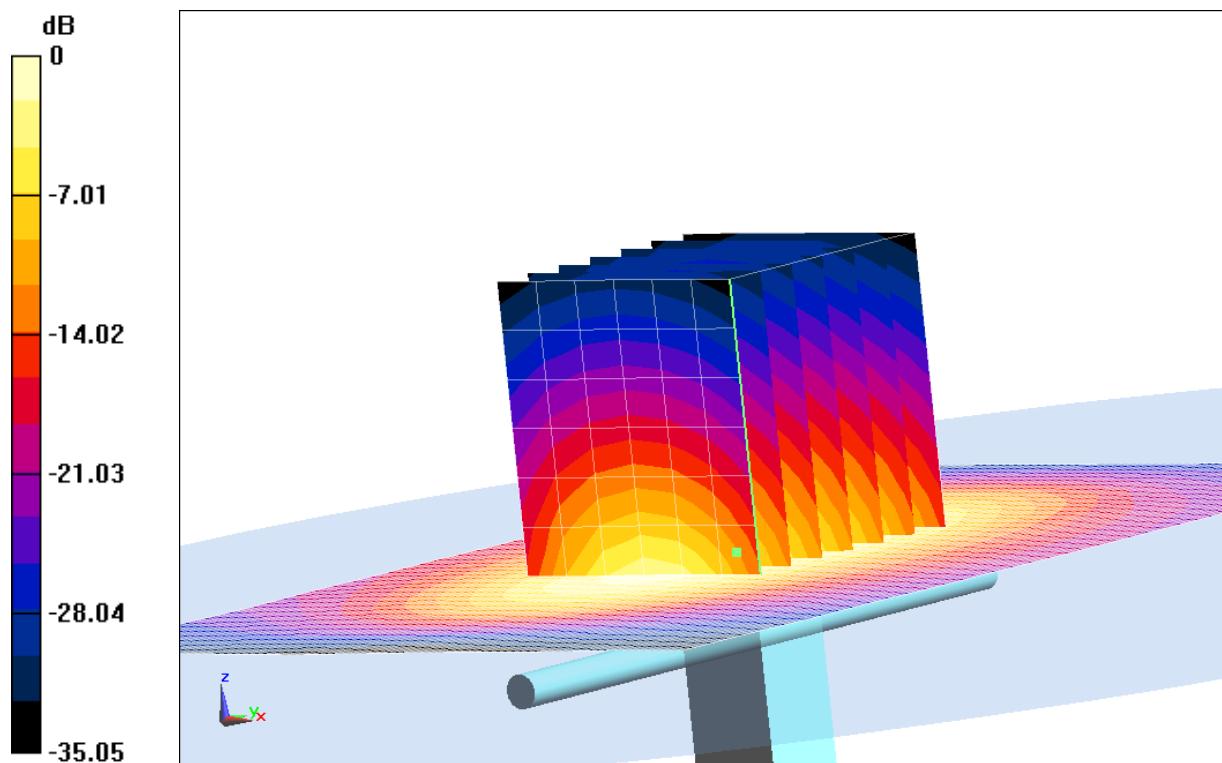
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.378 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 9.33 W/kg; SAR(10 g) = 4.95 W/kg

Maximum value of SAR (measured) = 10.2 W/kg



$$0 \text{ dB} = 10.2 \text{ W/kg} = 10.09 \text{ dB W/kg}$$

Fig.B.6 validation 1750MHz 250mW

1900MHz

Date: 2016-11-18

Electronics: DAE4 Sn1331

Medium: Head 1900 MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.417 \text{ mho/m}$; $\epsilon_r = 41.15$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C

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

Probe: EX3DV4 – SN7307 ConvF(8.10, 8.10, 8.10)

System Validation /Area Scan(61x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 91.395 V/m; Power Drift = -0.05 dB

SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.44 W/kg

Maximum value of SAR (interpolated) = 12.5 W/kg

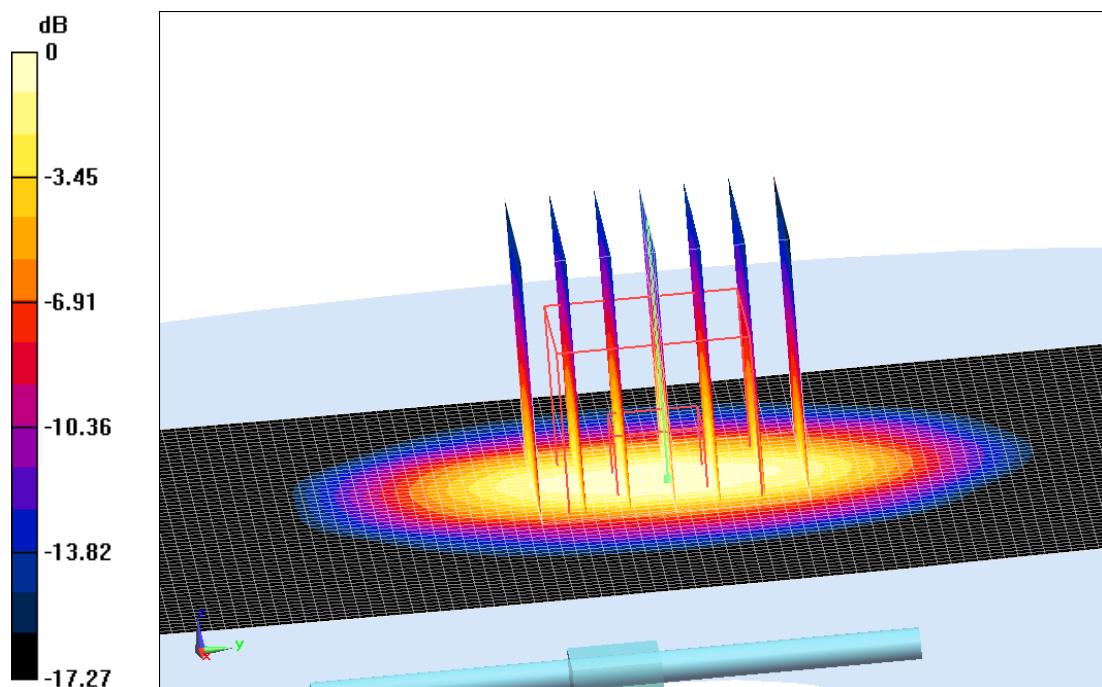
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 91.395 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.26 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



$$0 \text{ dB} = 12.3 \text{ W/kg} = 10.90 \text{ dBW/kg}$$

Fig.B.7 validation 1900MHz 250mW