

Test Laboratory: BTL.Inc

Date: 2021/9/18

## W02\_802.11g\_CH1\_Horizontal Down\_0.5cm\_Ant 0

**DUT: SUB Dongle;**

Communication System: UID 0, 802.11g (0);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.71$  S/m;  $\epsilon_r = 38.855$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2412 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Right v5.0; Type: QD000P40CC; Serial: TP:1469
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (5x9x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.133 W/kg

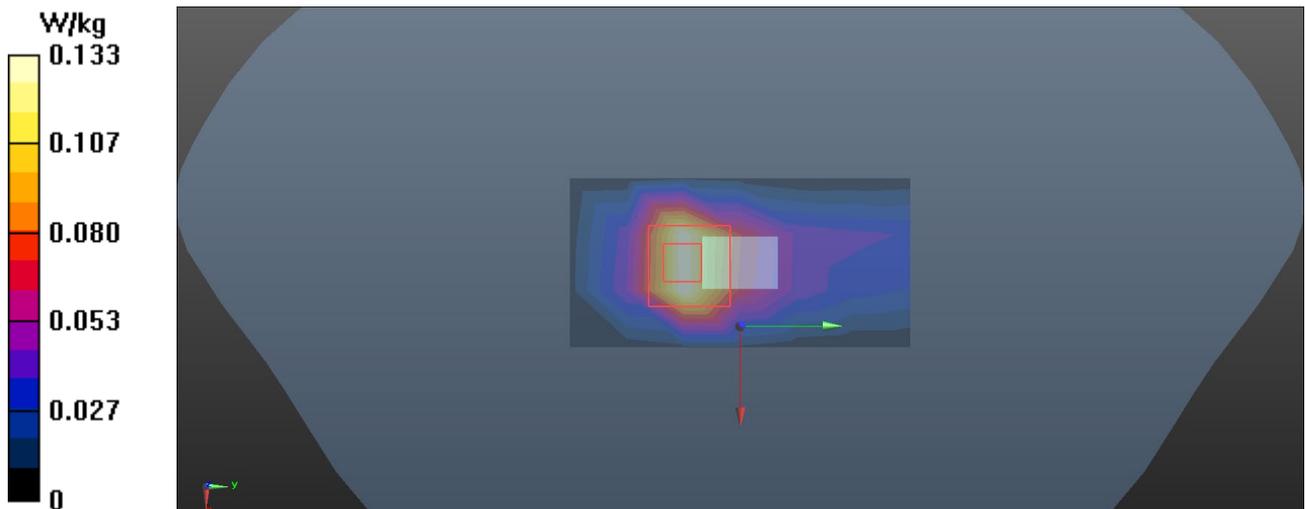
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 10.58 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.261 W/kg

**SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.014 W/kg**

Maximum value of SAR (measured) = 0.143 W/kg



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## W10\_802.11n HT20\_CH1\_Horizontal Down\_0.5cm\_Ant 0+1

**DUT: SUB Dongle;**

Communication System: UID 10598 - AAB, IEEE 802.11n (HT Mixed, 20MHz, MCS8, 90pc duty cycle);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.71$  S/m;  $\epsilon_r = 38.855$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(7.56, 7.56, 7.56) @ 2412 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Right v5.0; Type: QD000P40CC; Serial: TP:1469
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (5x9x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0895 W/kg

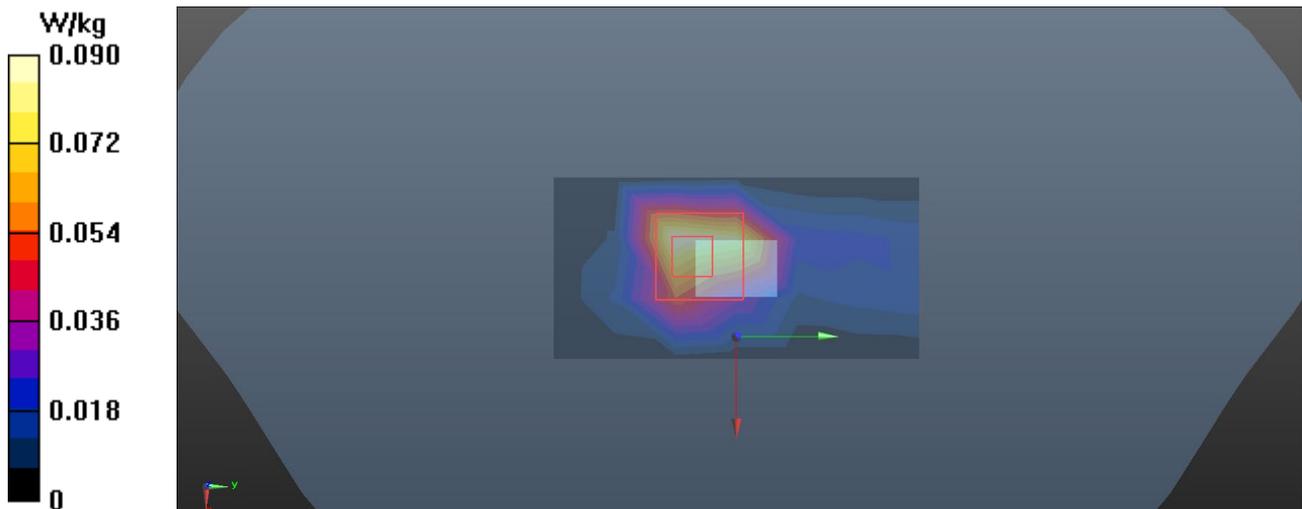
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.404 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.146 W/kg**

Maximum value of SAR (measured) = 0.409 W/kg



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## W18\_802.11a\_CH48\_Horizontal Down\_0.5cm\_Ant 0

**DUT: SUB Dongle;**

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.845$  S/m;  $\epsilon_r = 35.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5260 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.649 W/kg

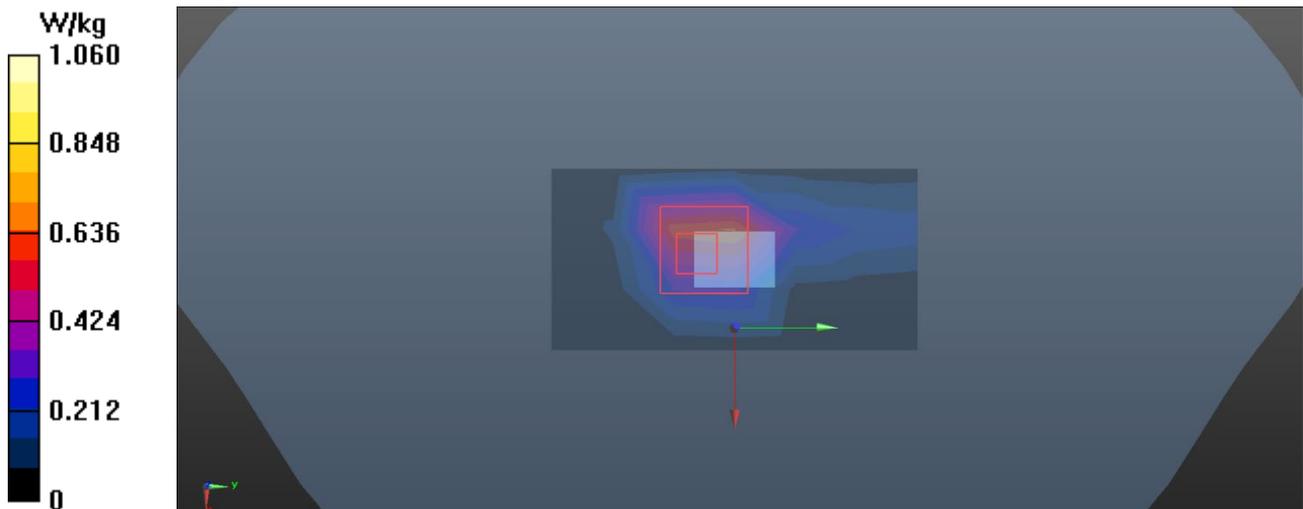
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.74 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.141 W/kg**

Maximum value of SAR (measured) = 1.06 W/kg



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## W29\_802.11ac\_VHT40\_CH46\_Tip Side\_0.5cm\_Ant 0+1

**DUT: SUB Dongle;**

Communication System: UID 10624 - AAB, IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle);

Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5230$  MHz;  $\sigma = 4.801$  S/m;  $\epsilon_r = 35.693$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.56, 5.56, 5.56) @ 5230 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.218 W/kg

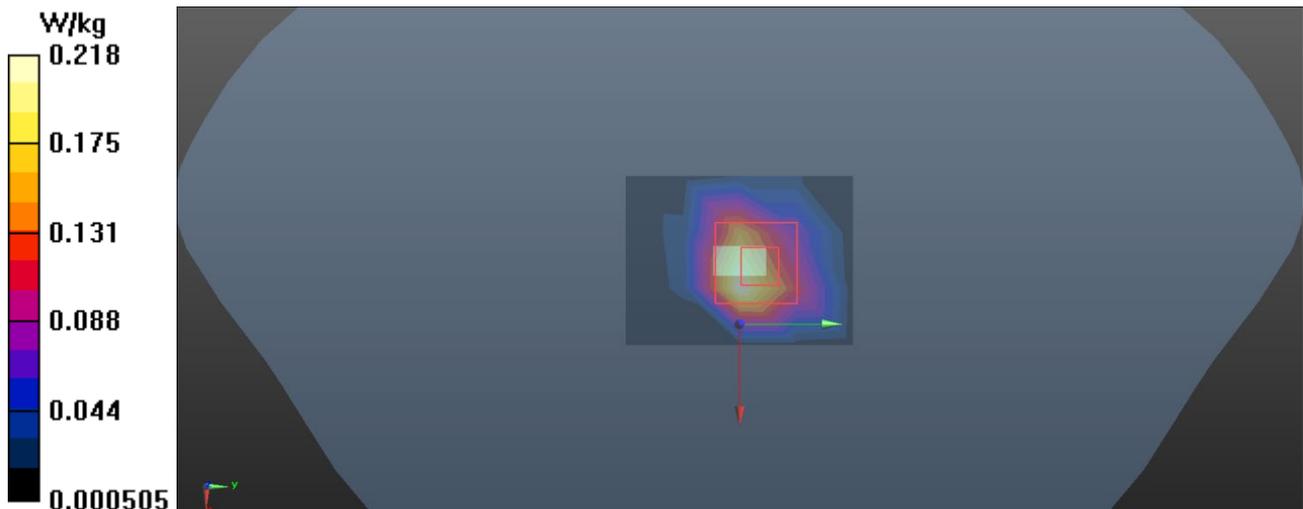
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.19 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.051 W/kg**

Maximum value of SAR (measured) = 0.615 W/kg



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## W32\_802.11a\_CH52\_Horizontal Down\_0.5cm\_Ant 0

**DUT: SUB Dongle;**

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.845$  S/m;  $\epsilon_r = 35.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5260 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.649 W/kg

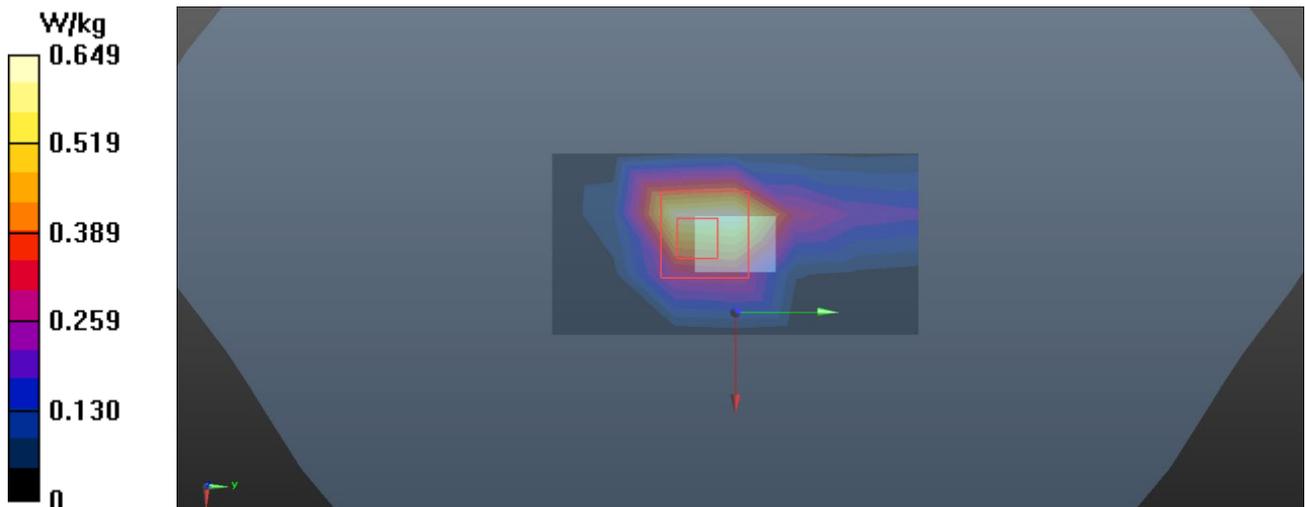
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.74 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.139 W/kg**

Maximum value of SAR (measured) = 1.06 W/kg



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### W43\_802.11ac VHT40\_CH54\_Tip Side\_0.5cm\_Ant 0+1

**DUT: SUB Dongle;**

Communication System: UID 10624 - AAB, IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle);

Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.855$  S/m;  $\epsilon_r = 35.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.25, 5.25, 5.25) @ 5270 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.395 W/kg

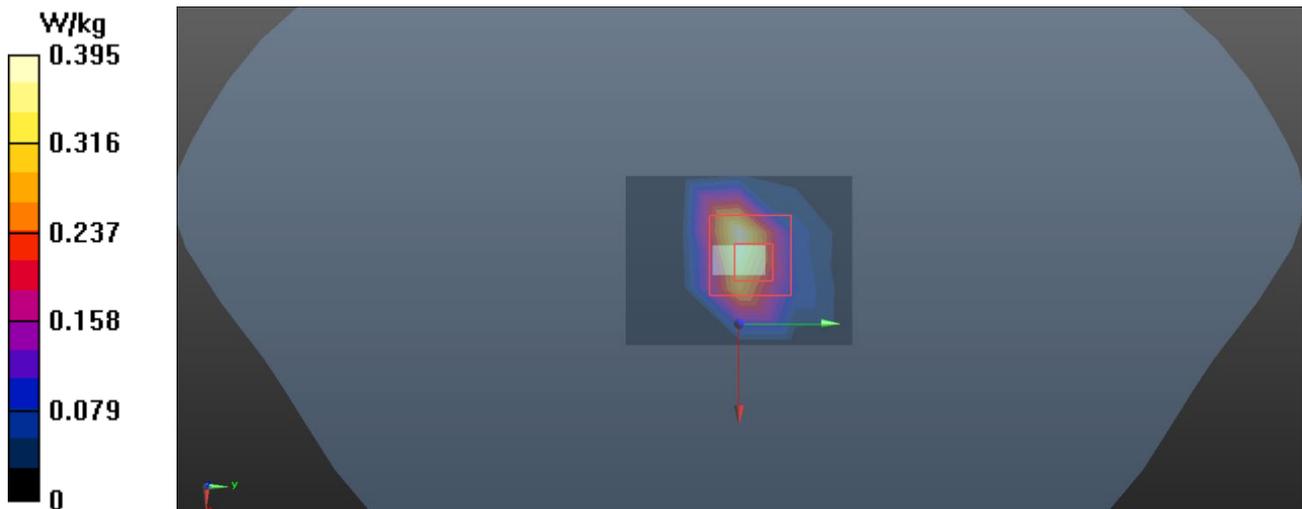
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.46 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.20 W/kg

**SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.096 W/kg**

Maximum value of SAR (measured) = 1.27 W/kg



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## W46\_802.11a\_CH116\_Horizontal Down\_0.5cm\_Ant 0

**DUT: SUB Dongle;**

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5580 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.228$  S/m;  $\epsilon_r = 34.859$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.82, 4.82, 4.82) @ 5580 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x11x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.192 W/kg

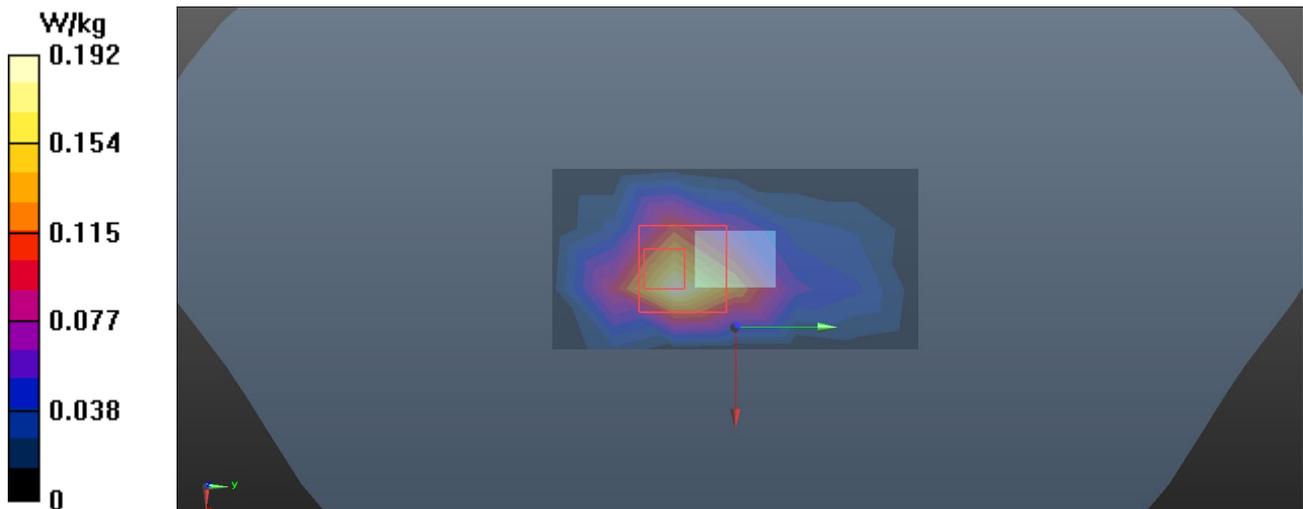
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.357 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.474 W/kg

**SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.025 W/kg**

Maximum value of SAR (measured) = 0.263 W/kg



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### W57\_802.11ac VHT80\_CH122\_Tip Side\_0.5cm\_Ant 0+1

**DUT: SUB Dongle;**

Communication System: UID 10635 - AAB, IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle);

Frequency: 5610 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5610$  MHz;  $\sigma = 5.26$  S/m;  $\epsilon_r = 34.759$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.82, 4.82, 4.82) @ 5610 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.487 W/kg

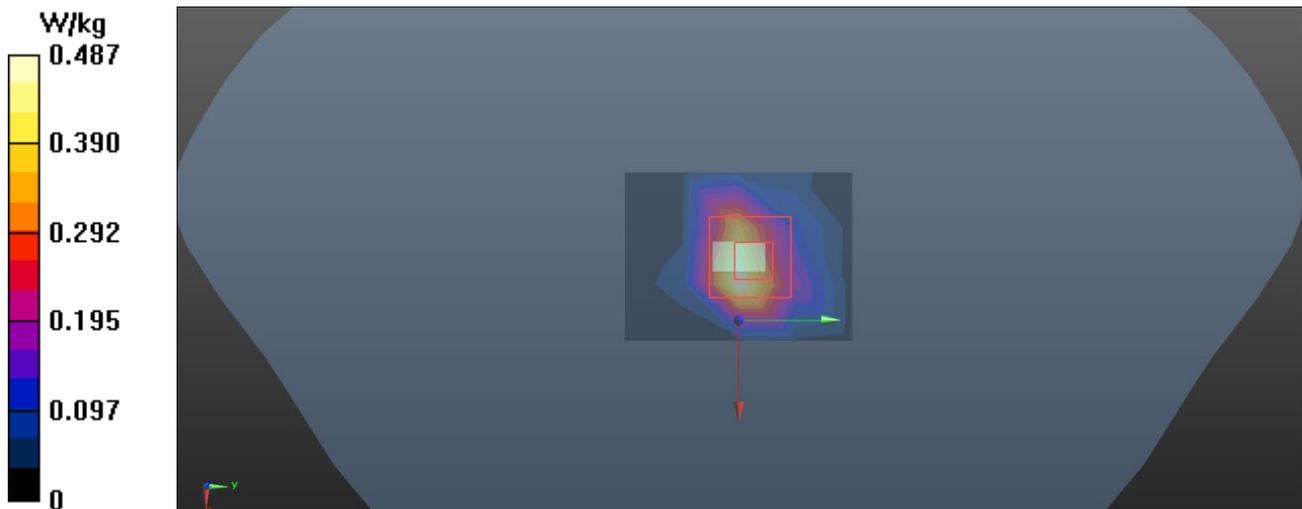
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.71 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.33 W/kg

**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.099 W/kg**

Maximum value of SAR (measured) = 1.08 W/kg



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### W66\_802.11a\_CH57\_Tip Side\_0.5cm\_Ant 0

**DUT: SUB Dongle;**

Communication System: UID 10317 - AAC, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle);

Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5785$  MHz;  $\sigma = 5.476$  S/m;  $\epsilon_r = 34.348$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.8, 4.8, 4.8) @ 5785 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.259 W/kg

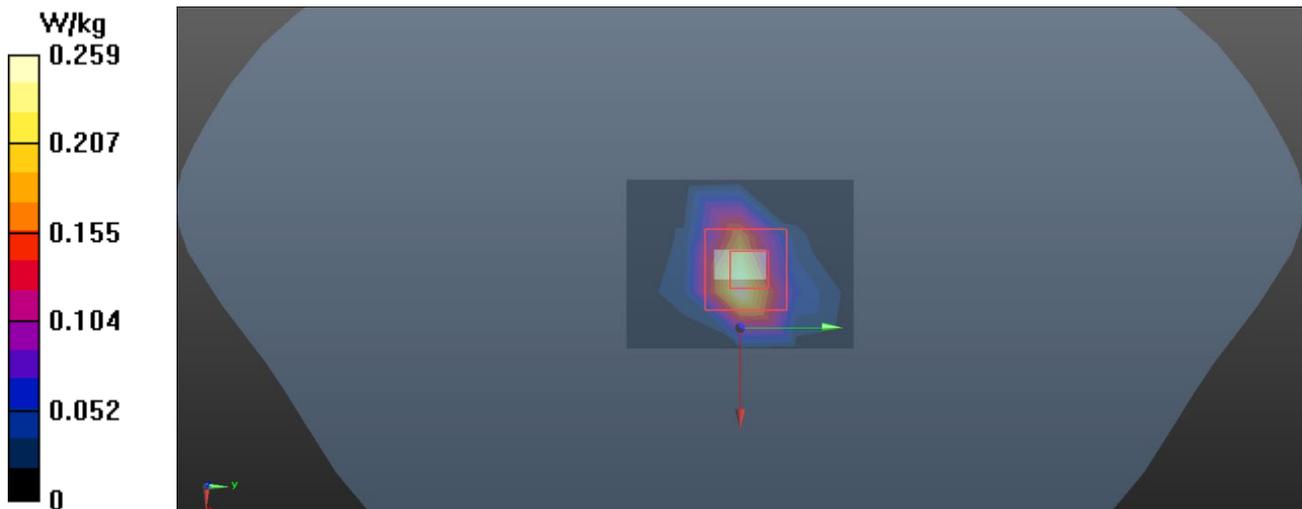
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.18 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.868 W/kg

**SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.058 W/kg**

Maximum value of SAR (measured) = 0.573 W/kg



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### W75\_802.11ac VHT40\_CH159\_Tip Side\_0.5cm\_Ant 0

**DUT: SUB Dongle;**

Communication System: UID 10624 - AAB, IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle);

Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 5795$  MHz;  $\sigma = 5.491$  S/m;  $\epsilon_r = 34.325$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.8, 4.8, 4.8) @ 5795 MHz; Calibrated: 2020/10/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2020/11/6
- Phantom: SAM Left; Type: Twin SAM; Serial: 1784
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (6x8x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.799 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 23.15 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.37 W/kg

**SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.150 W/kg**

Maximum value of SAR (measured) = 1.52 W/kg

