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Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Front Middle CH7****DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
Frequency: 2440 MHz; Duty Cycle: 1:1Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.905$  S/m;  $\epsilon_r = 52.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

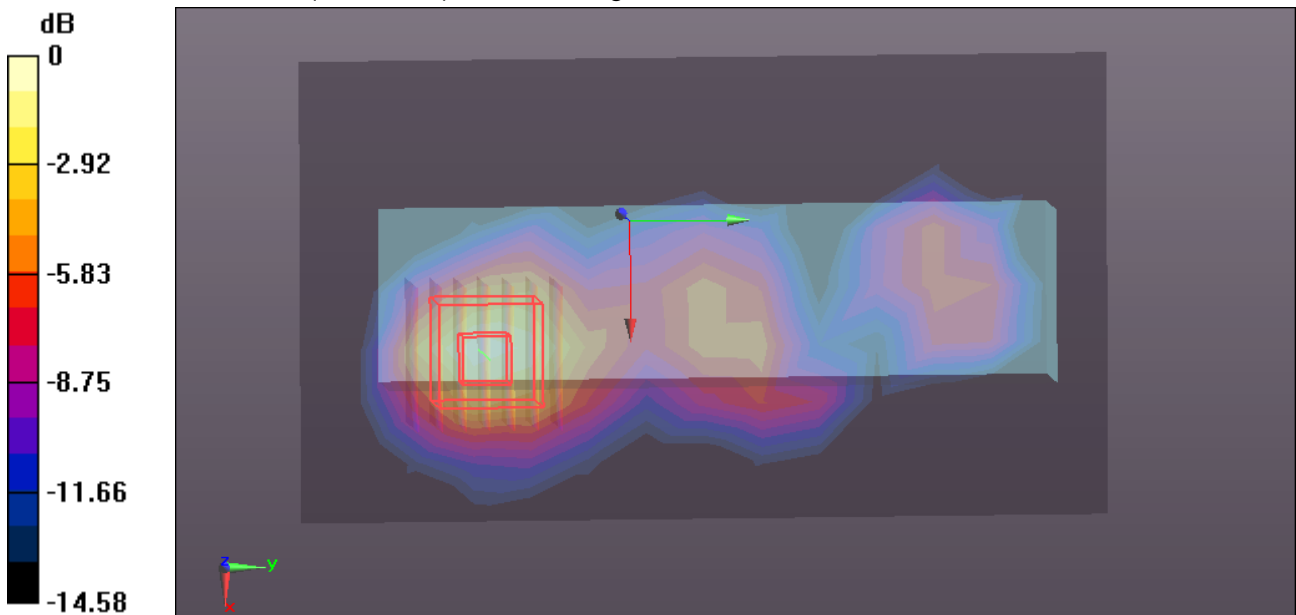
**WIFI/Body Front Middle CH7/Area Scan (15x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.259 W/kg**WIFI/Body Front Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.151 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.346 W/kg

**SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.093 W/kg**

Maximum value of SAR (measured) = 0.271 W/kg



0 dB = 0.271 W/kg = -5.67 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Rear Middle CH7**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
 Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.905 \text{ S/m}$ ;  $\epsilon_r = 52.553$ ;  $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Rear Middle CH7/Area Scan (15x9x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 0.117 W/kg

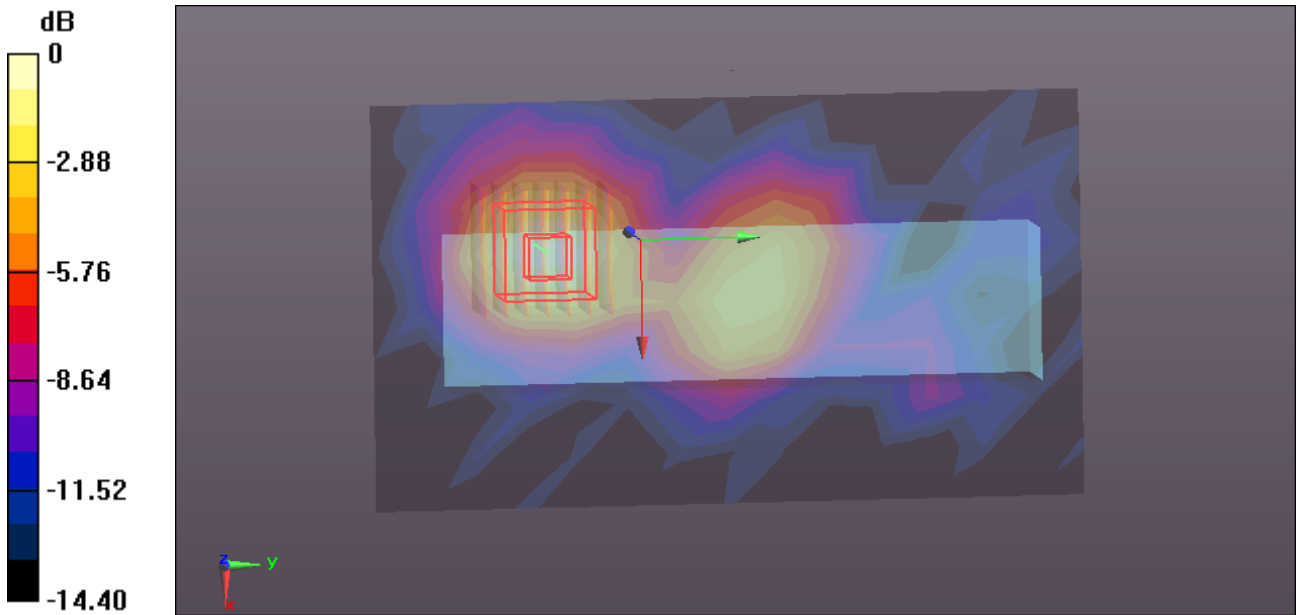
**WIFI/Body Rear Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.548 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.158 W/kg

**SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.049 W/kg**

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg = -8.96 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Right Middle CH7**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.905 \text{ S/m}$ ;  $\epsilon_r = 52.553$ ;  $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Right Middle CH7 /Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0737 W/kg

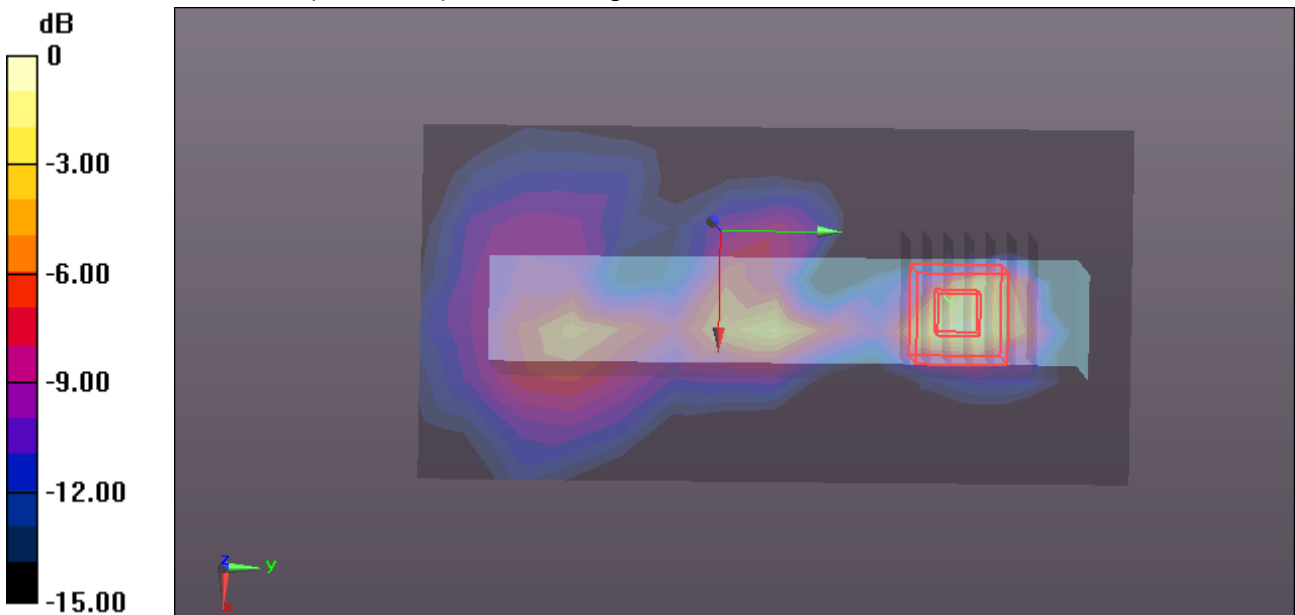
**WIFI/Body Right Middle CH7 /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.542 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.150 W/kg

**SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.024 W/kg**

Maximum value of SAR (measured) = 0.100 W/kg



0 dB = 0.100 W/kg = -10.00 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

### WiFi-Body Chain 0 Left Low CH0

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
Frequency: 2405 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2405$  MHz;  $\sigma = 1.881$  S/m;  $\epsilon_r = 52.743$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WiFi/Body Left Low CH0/Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

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

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

**WiFi/Body Left Low CH0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

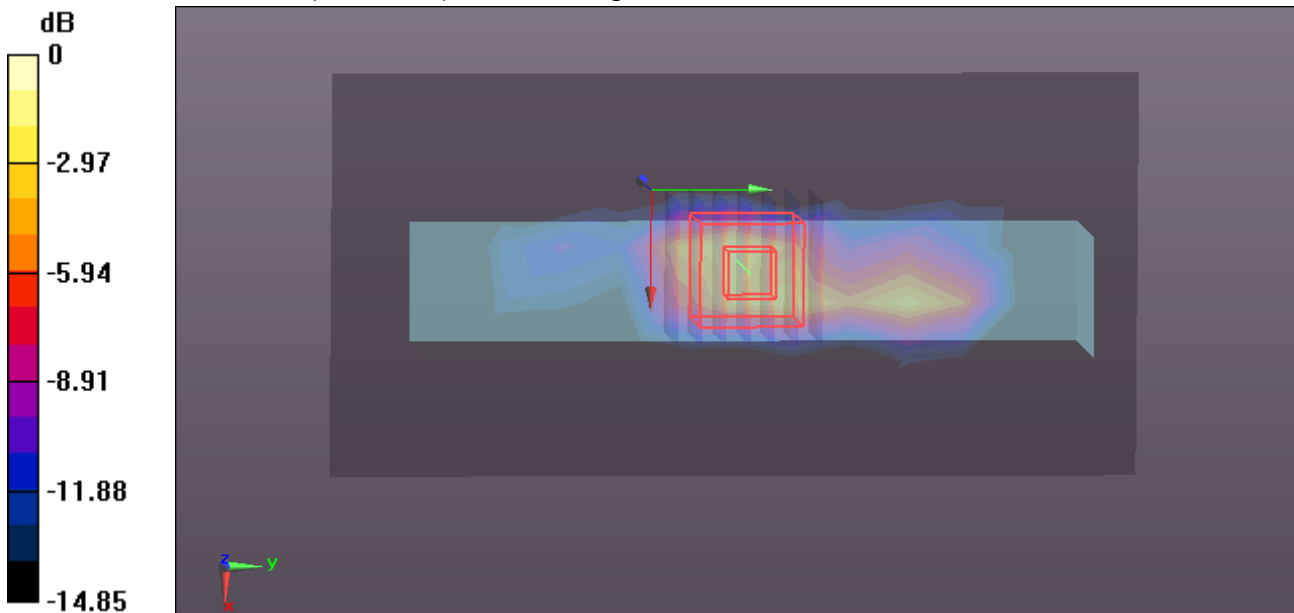
Reference Value = 16.68 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.655 W/kg

**SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.111 W/kg**

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

Maximum value of SAR (measured) = 0.465 W/kg



0 dB = 0.465 W/kg = -3.33 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Left Middle CH7**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.905 \text{ S/m}$ ;  $\epsilon_r = 52.553$ ;  $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Left Middle CH7/Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.576 W/kg

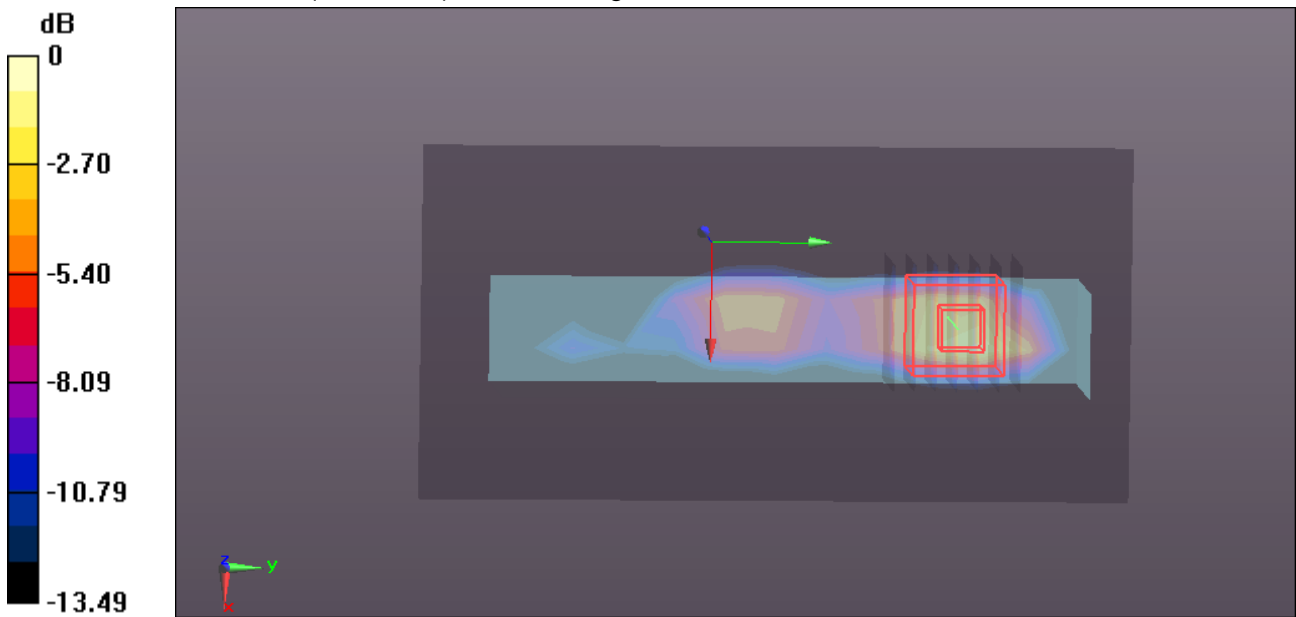
**WIFI/Body Left Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.32 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.190 W/kg**

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



0 dB = 0.785 W/kg = -1.05 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Left High CH13**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
 Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2480 \text{ MHz}$ ;  $\sigma = 1.932 \text{ S/m}$ ;  $\epsilon_r = 52.342$ ;  $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS2 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Left High CH13/Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

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

Maximum value of SAR (measured) = 0.608 W/kg

**WIFI/Body Left High CH13/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

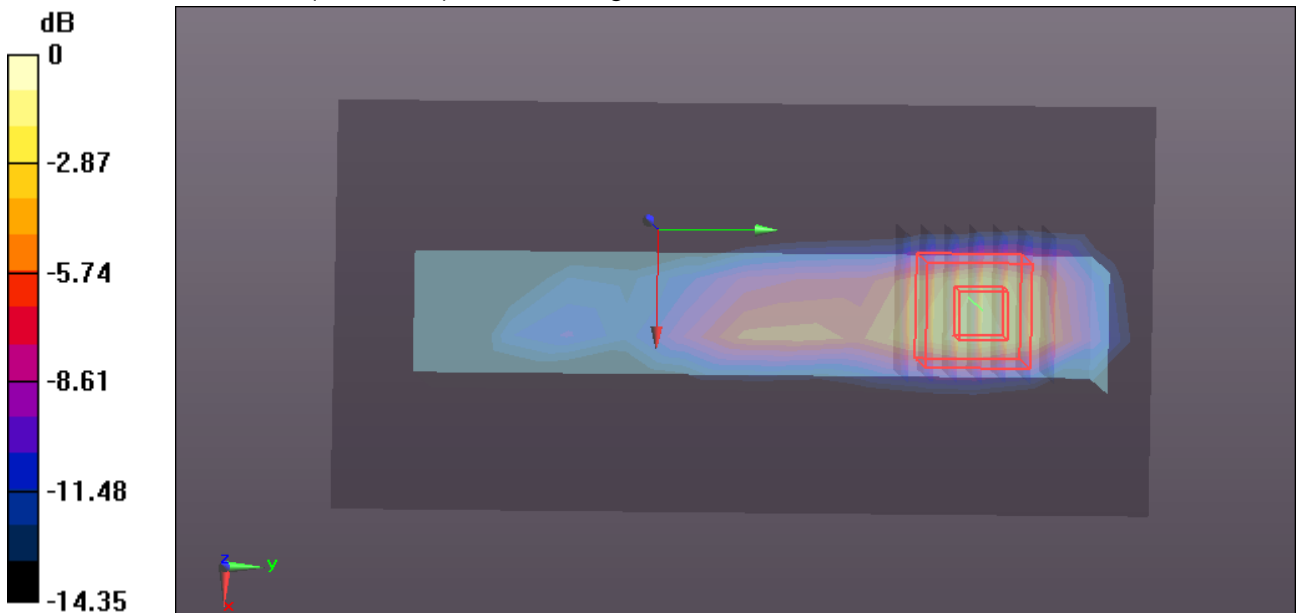
Reference Value = 13.71 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.237 W/kg**

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

Maximum value of SAR (measured) = 0.960 W/kg



0 dB = 0.960 W/kg = -0.18 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Top Middle CH7****DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
Frequency: 2440 MHz; Duty Cycle: 1:1Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.905$  S/m;  $\epsilon_r = 52.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Top Middle CH7/Area Scan (9x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0485 W/kg

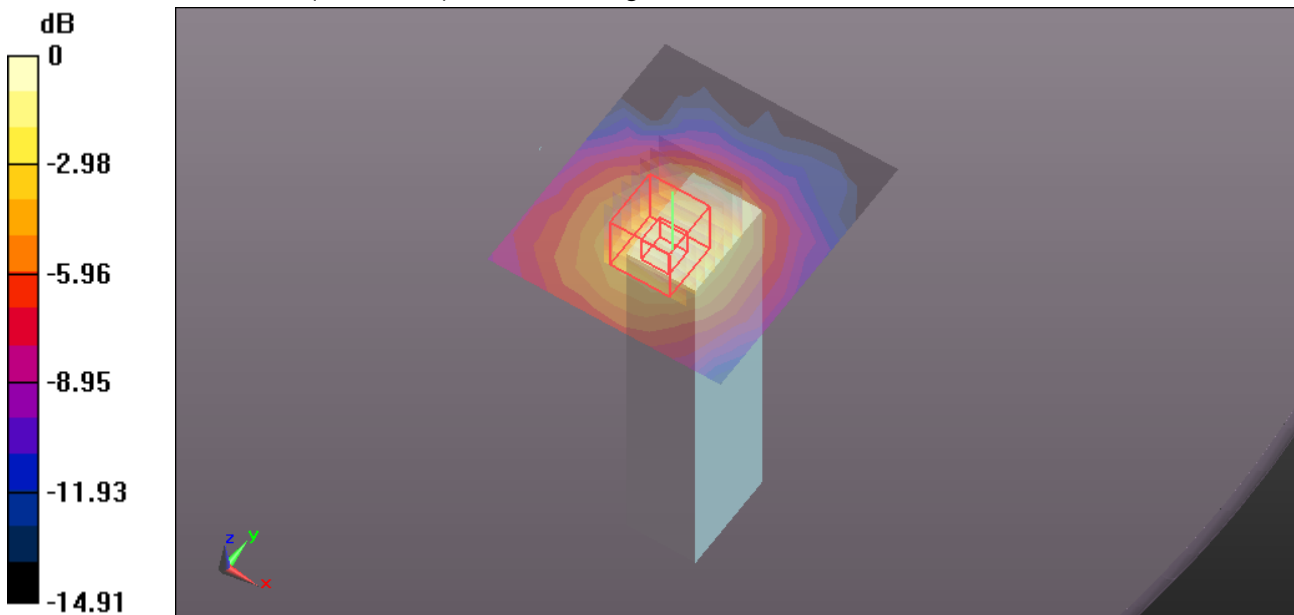
**WIFI/Body Top Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.372 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0750 W/kg

**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.021 W/kg**

Maximum value of SAR (measured) = 0.0565 W/kg



0 dB = 0.0565 W/kg = -12.48 dBW/kg



Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 0 Bottom Middle CH7**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
 Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.905 \text{ S/m}$ ;  $\epsilon_r = 52.553$ ;  $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Bottom Middle CH7 /Area Scan (9x8x1):** Measurement grid: dx=12mm, dy=12mm  
 Maximum value of SAR (measured) = 0.0166 W/kg

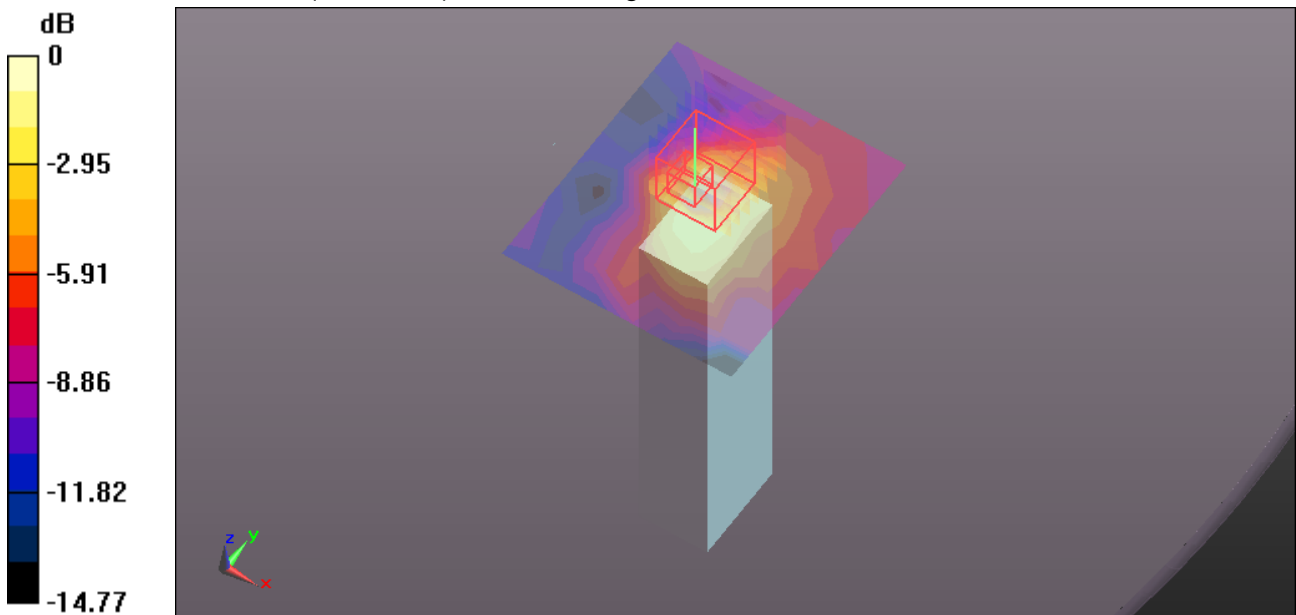
**WIFI/Body Bottom Middle CH7 /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.210 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0610 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00603 W/kg**

Maximum value of SAR (measured) = 0.0215 W/kg



0 dB = 0.0215 W/kg = -16.68 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

### WIFI-Body Chain 1 Front Middle CH7

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11.; Communication System Band: ISM 2.4Ghz Band;  
Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.905$  S/m;  $\epsilon_r = 52.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Front Middle CH7/Area Scan (15x9x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.0537 W/kg

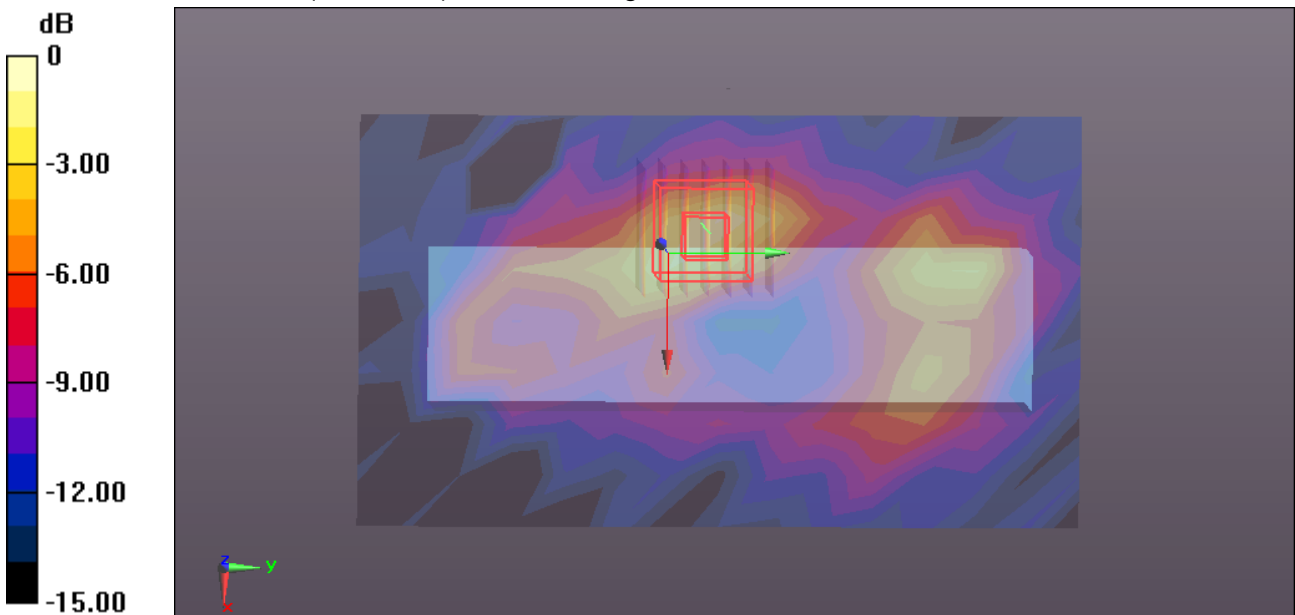
**WIFI/Body Front Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.101 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0860 W/kg

**SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.019 W/kg**

Maximum value of SAR (measured) = 0.0656 W/kg



0 dB = 0.0656 W/kg = -11.83 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

### WIFI-Body Chain 1 Rear Middle CH7

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.905$  S/m;  $\epsilon_r = 52.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Rear Middle CH7/Area Scan (15x9x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0851 W/kg

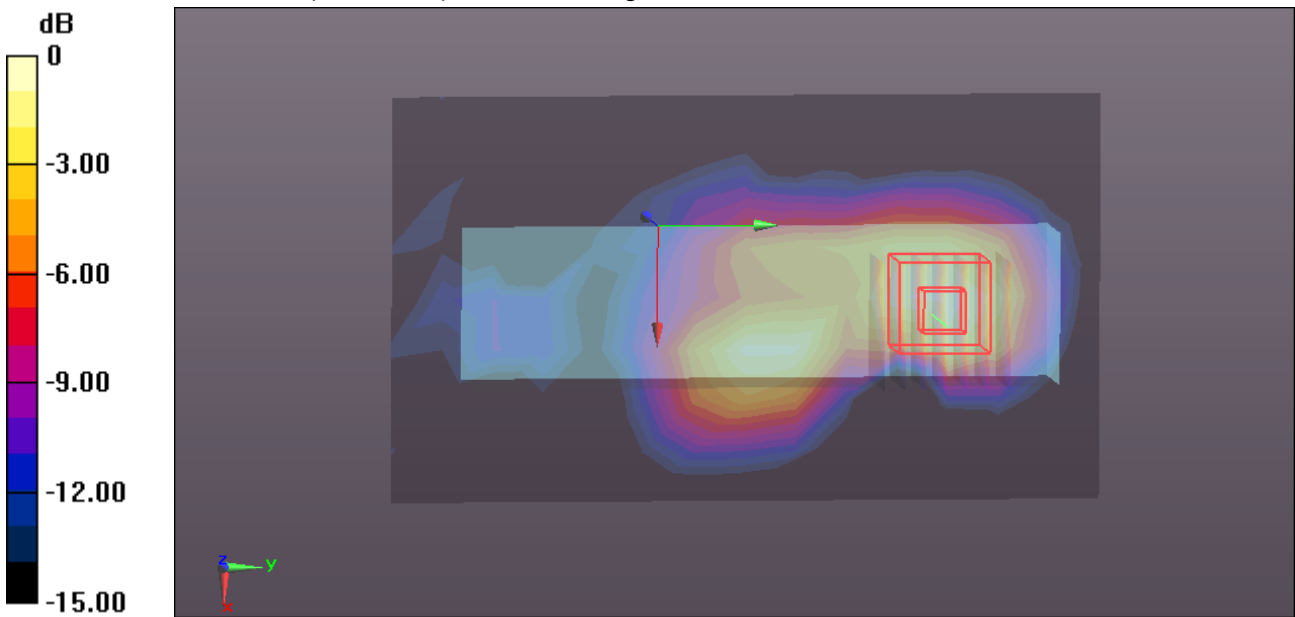
**WIFI/Body Rear Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.849 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.120 W/kg

**SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.037 W/kg**

Maximum value of SAR (measured) = 0.0937 W/kg



0 dB = 0.0937 W/kg = -10.28 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 1 Right Low CH0**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE802.11 ; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2405 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2405$  MHz;  $\sigma = 1.881$  S/m;  $\epsilon_r = 52.743$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Right Low CH0/Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

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

Maximum value of SAR (measured) = 1.04 W/kg

**WIFI/Body Right Low CH0/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

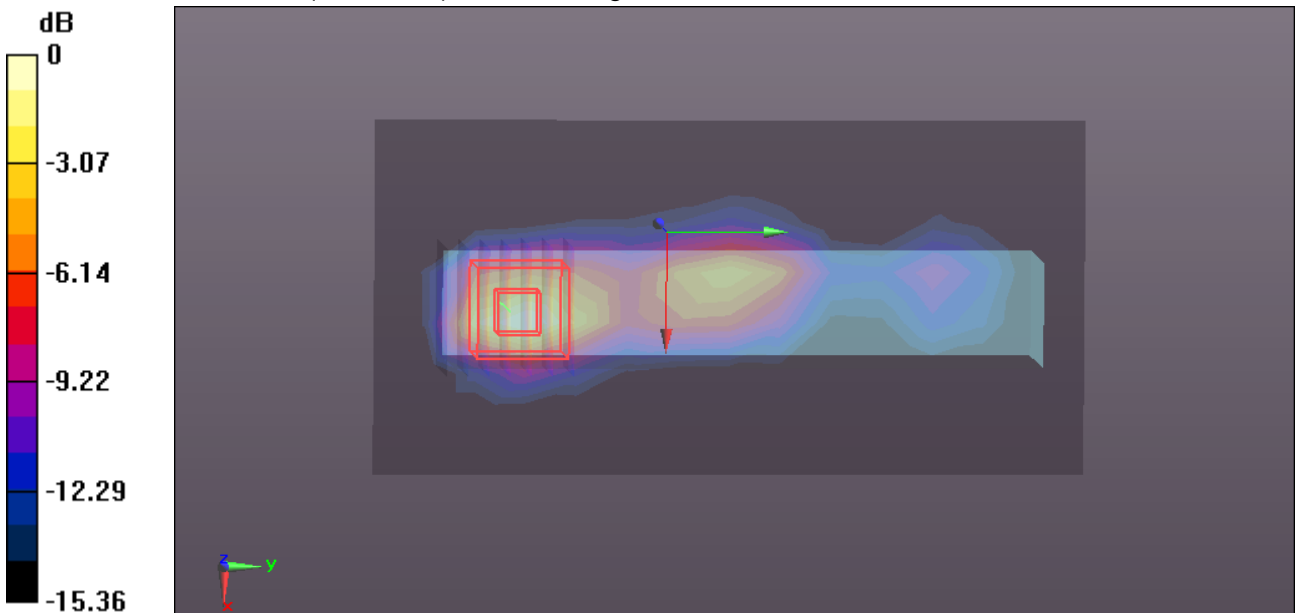
Reference Value = 16.04 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.235 W/kg**

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

Maximum value of SAR (measured) = 0.922 W/kg



0 dB = 0.922 W/kg = -0.35 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 1 Right Middle CH7**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.905$  S/m;  $\epsilon_r = 52.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Right Middle CH7/Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.984 W/kg

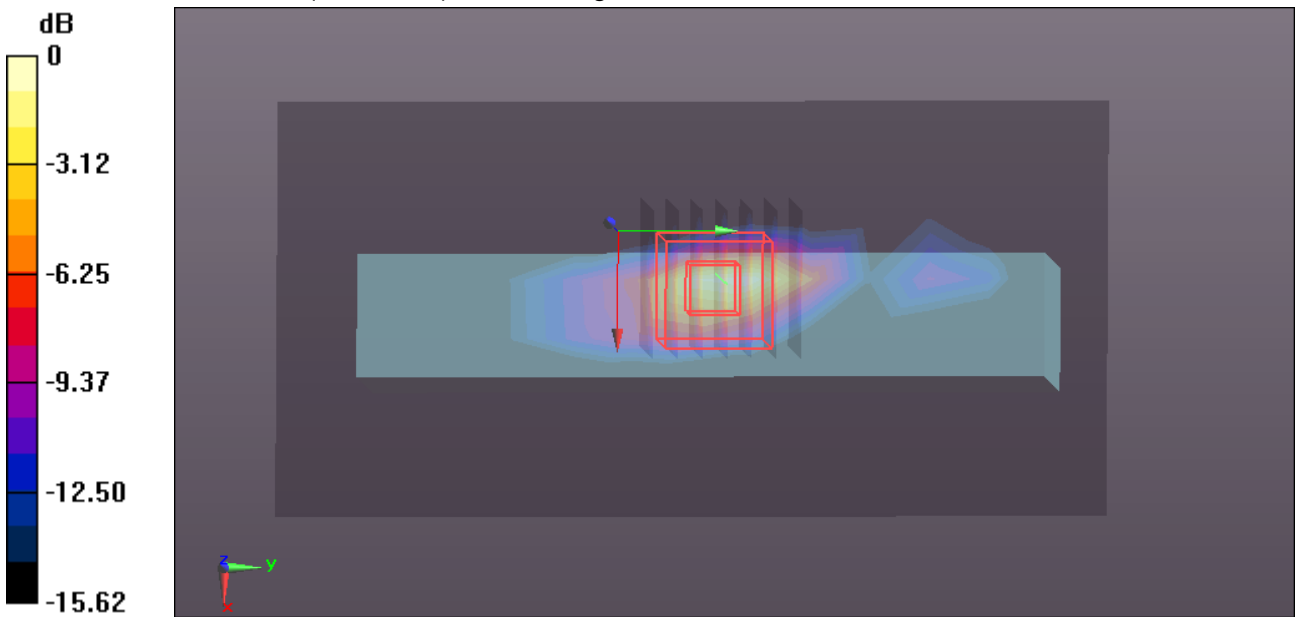
**WIFI/Body Right Middle CH7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.23 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.201 W/kg**

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

### WIFI-Body Chain 1 Right High CH13

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE802.11; Communication System Band: ISM 2.4Ghz Band;  
Frequency: 2480 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated):  $f = 2480$  MHz;  $\sigma = 1.932$  S/m;  $\epsilon_r = 52.342$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Right High CH13/Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

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

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

**WIFI/Body Right High CH13/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

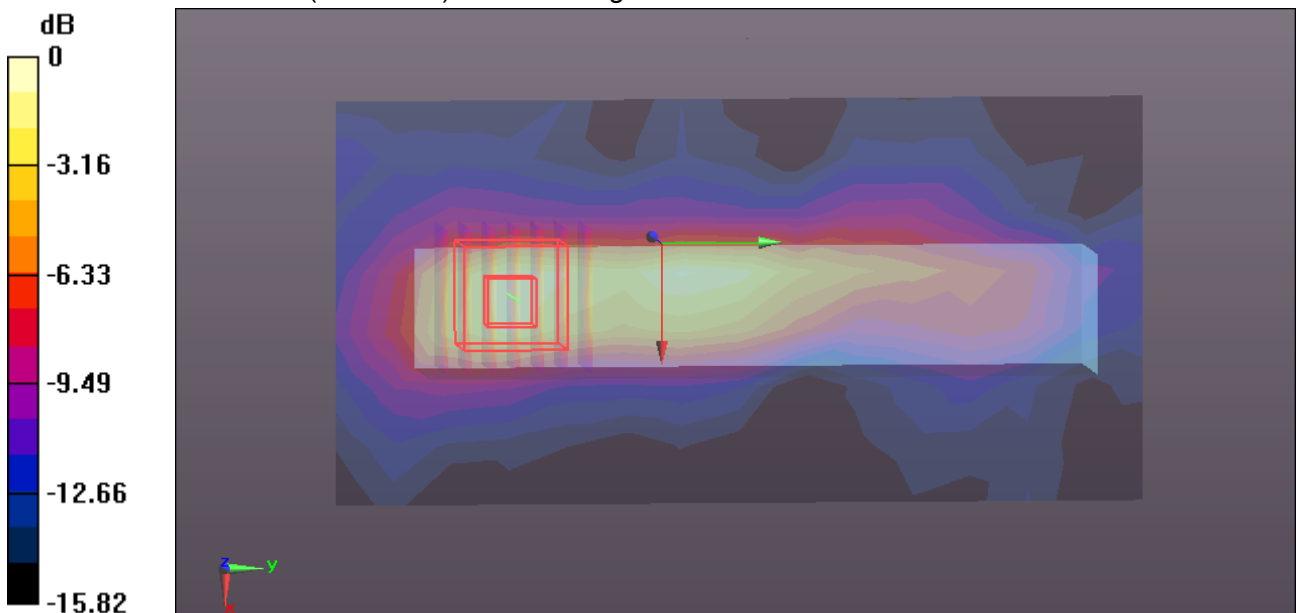
Reference Value = 12.52 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.549 W/kg

**SAR(1 g) = 0.254 W/kg; SAR(10 g) = 0.119 W/kg**

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

Maximum value of SAR (measured) = 0.400 W/kg



0 dB = 0.400 W/kg = -3.98 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 1Left Middle CH7**

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 1.905 \text{ S/m}$ ;  $\epsilon_r = 52.553$ ;  $\rho = 1000 \text{ kg/m}^3$

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Left Middle CH7 /Area Scan (15x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0809 W/kg

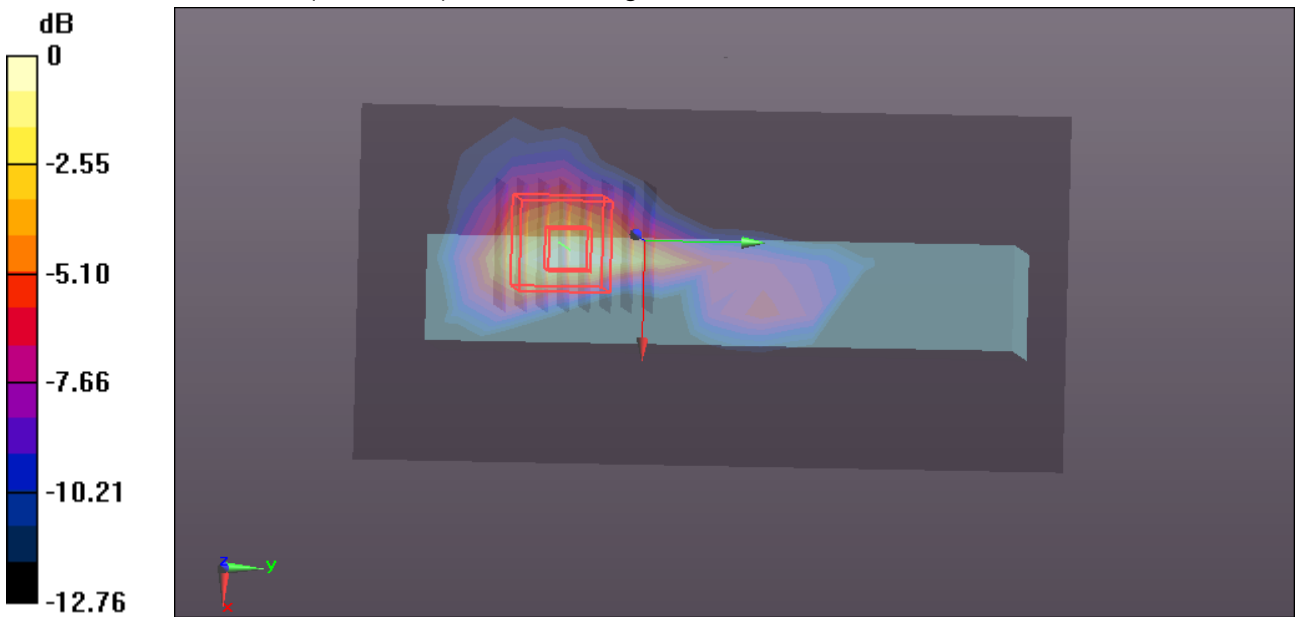
**WIFI/Body Left Middle CH7 /Zoom Scan (8x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.516 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0990 W/kg

**SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.020 W/kg**

Maximum value of SAR (measured) = 0.0731 W/kg



0 dB = 0.0731 W/kg = -11.36 dBW/kg

Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

**WIFI-Body Chain 1 Top Middle CH7****DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;  
Frequency: 2440 MHz; Duty Cycle: 1:1Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.8$  S/m;  $\epsilon_r = 38.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.17, 7.17, 7.17); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Top Middle CH7 /Area Scan (9x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0172 W/kg

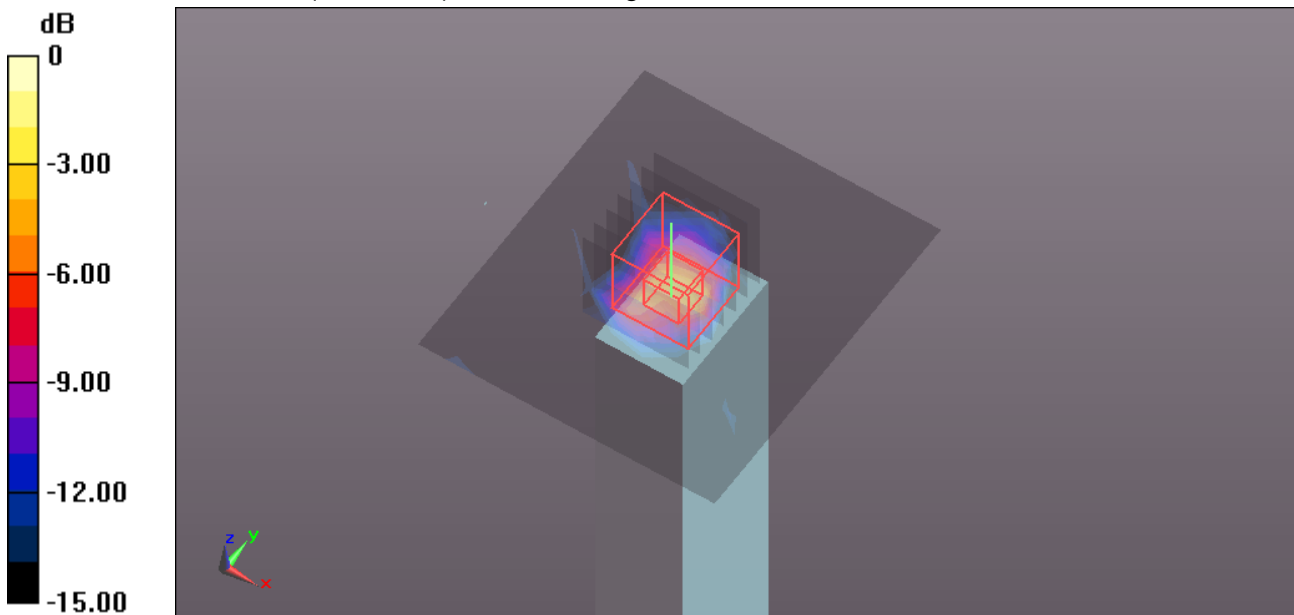
**WIFI/Body Top Middle CH7 /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.172 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.0460 W/kg

**SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00606 W/kg**

Maximum value of SAR (measured) = 0.0331 W/kg



0 dB = 0.0331 W/kg = -14.80 dBW/kg



Test Laboratory: Compliance Certification Services Inc.

Date: 8/4/2015

### WIFI-Body Chain 1 Bottom Middle CH7

**DUT: GPS FLIGHT CONTROLLER; Type: TYPHOON; Serial: N/A**

Communication System: UID 0, IEEE 802.11; Communication System Band: ISM 2.4Ghz Band;

Frequency: 2440 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2440$  MHz;  $\sigma = 1.905$  S/m;  $\epsilon_r = 52.553$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3661; ConvF(7.31, 7.31, 7.31); Calibrated: 4/24/2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 12/29/2014
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASYS 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

**WIFI/Body Bottom Middle CH7 /Area Scan (9x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0187 W/kg

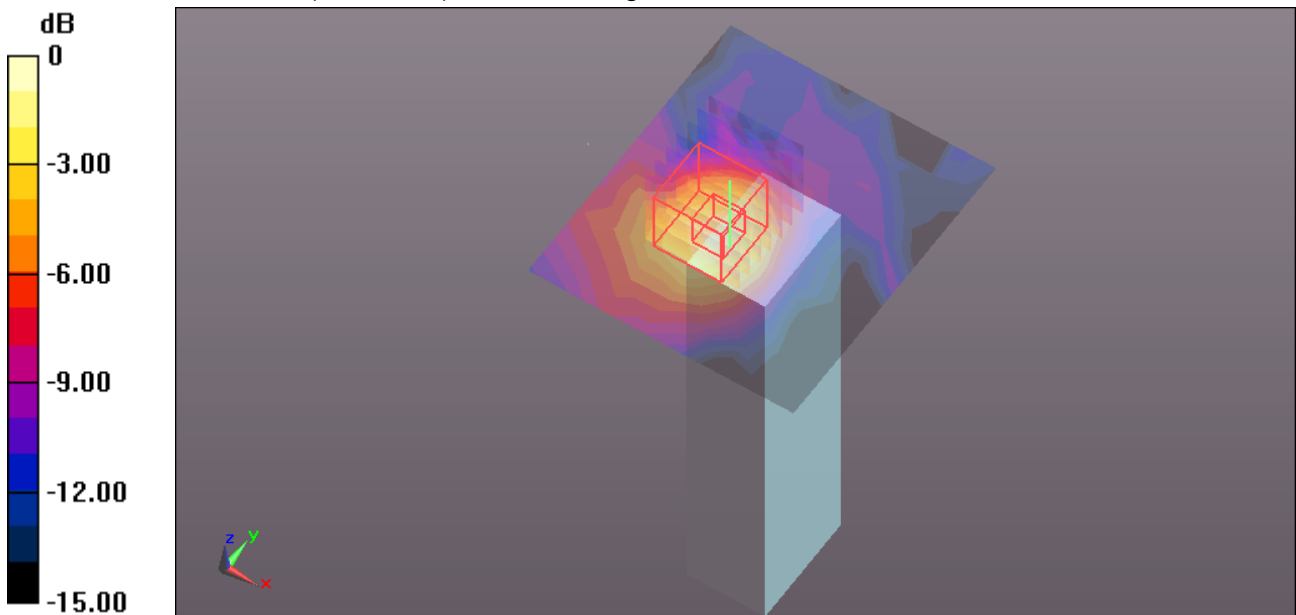
**WIFI/Body Bottom Middle CH7 /Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.101 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0770 W/kg

**SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00716 W/kg**

Maximum value of SAR (measured) = 0.0197 W/kg



0 dB = 0.0197 W/kg = -17.06 dBW/kg