



# Appendix B

## Detailed Test Results

1. WIFI
WIFI 2.4GHz for Body
WIFI 5.2GHz for Body
WIFI 5.3GHz for Body
WIFI 5.5GHz for Body
WIFI 5.8GHz for Body



Test Laboratory: LCS-SAR Lab

**WIFI 2.4G 802.11b 6CH Rear side 0mm-ANT0**

**DUT: Smart Diagnostic System; Type: P102; Serial: A10273193-1**

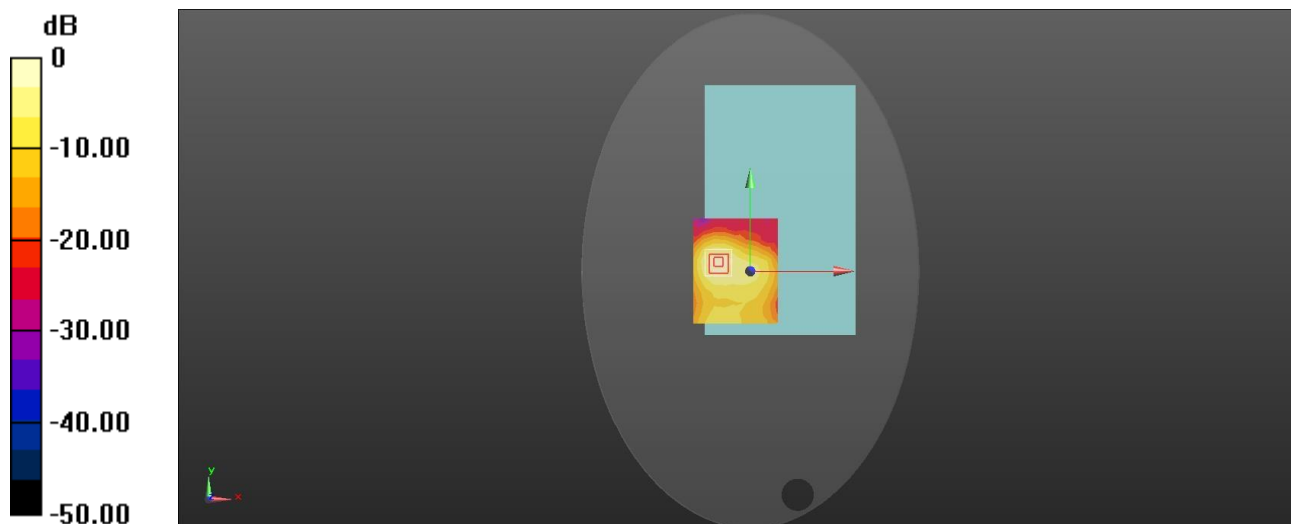
Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.091  
Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.812 \text{ S/m}$ ;  $\epsilon_r = 39.16$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3805; ConvF(7.42, 7.42, 7.42); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn419; Calibrated: 2023/6/20
- Phantom: ELI v5.0; Type: ELI; Serial: 2010
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x11x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$   
Maximum value of SAR (measured) = 0.485 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 9.286 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.807 W/kg  
**SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.148 W/kg**  
Maximum value of SAR (measured) = 0.531 W/kg



0 dB = 0.531 W/kg = -2.75 dBW/kg



Test Laboratory: LCS-SAR Lab

### WIFI 2.4G 802.11b 6CH Rear side 0mm-ANT1

**DUT: Smart Diagnostic System; Type: P102; Serial: A10273193-1**

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.094

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.812$  S/m;  $\epsilon_r = 39.16$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3805; ConvF(7.42, 7.42, 7.42); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn419; Calibrated: 2023/6/20
- Phantom: ELI v5.0; Type: ELI; Serial: 2010
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x11x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.498 W/kg

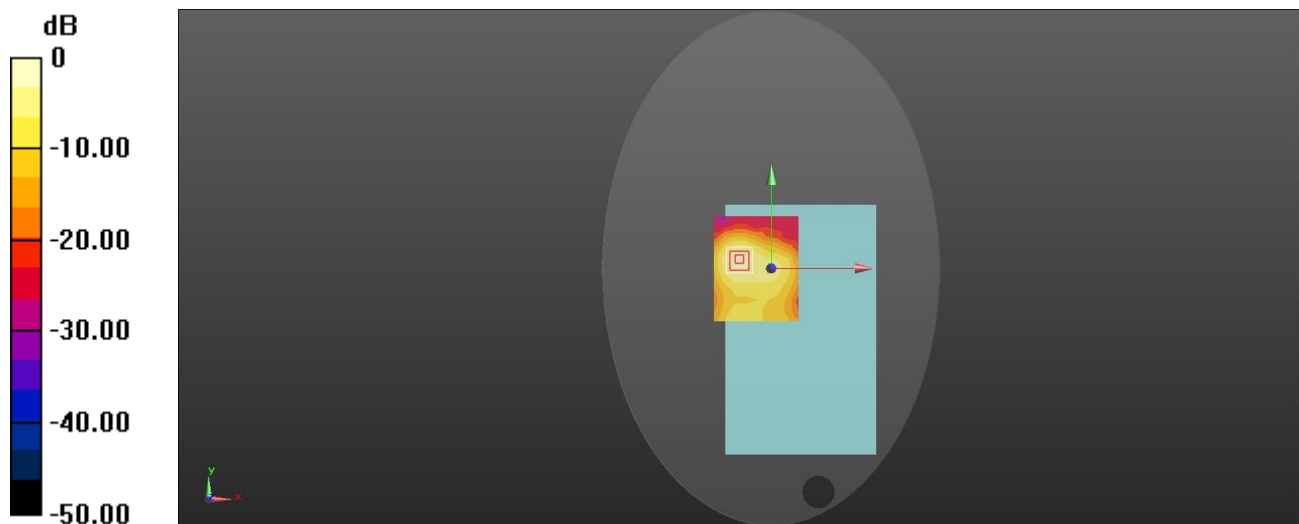
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.045 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.876 W/kg

**SAR(1 g) = 0.356 W/kg; SAR(10 g) = 0.165 W/kg**

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



0 dB = 0.567 W/kg = -2.46 dBW/kg



Test Laboratory: LCS-SAR Lab

**WIFI 5.2G 802.11n40 38CH Rear side 0mm**

**DUT: Smart Diagnostic System; Type: P102; Serial: A10273193-1**

Communication System: UID 0, WI-FI(5.2GHz) (0); Frequency: 5190 MHz;Duty Cycle: 1:1.241

Medium parameters used:  $f = 5190 \text{ MHz}$ ;  $\sigma = 4.805 \text{ S/m}$ ;  $\epsilon_r = 37.014$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3805; ConvF(5.38, 5.38, 5.38); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn419; Calibrated: 2023/6/20
- Phantom: ELI v5.0; Type: ELI; Serial: 2010
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x13x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.224 W/kg

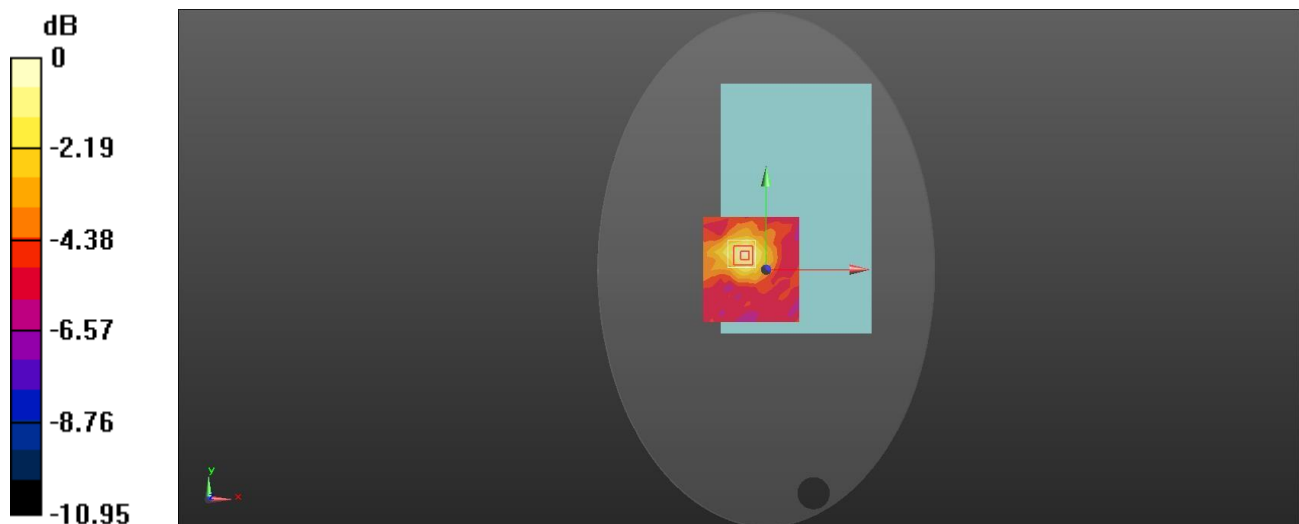
**Configuration/Body/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.641 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.282 W/kg

**SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.153 W/kg**

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg = -5.92 dBW/kg



Test Laboratory: LCS-SAR Lab

**WIFI 5.3G 802.11n40 62CH Rear side 0mm**

**DUT: Smart Diagnostic System; Type: P102; Serial: A10273193-1**

Communication System: UID 0, WI-FI(5.3GHz) (0); Frequency: 5310 MHz;Duty Cycle: 1:1.259

Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.895$  S/m;  $\epsilon_r = 36.798$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3805; ConvF(5.38, 5.38, 5.38); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn419; Calibrated: 2023/6/20
- Phantom: ELI v5.0; Type: ELI; Serial: 2010
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x13x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.231 W/kg

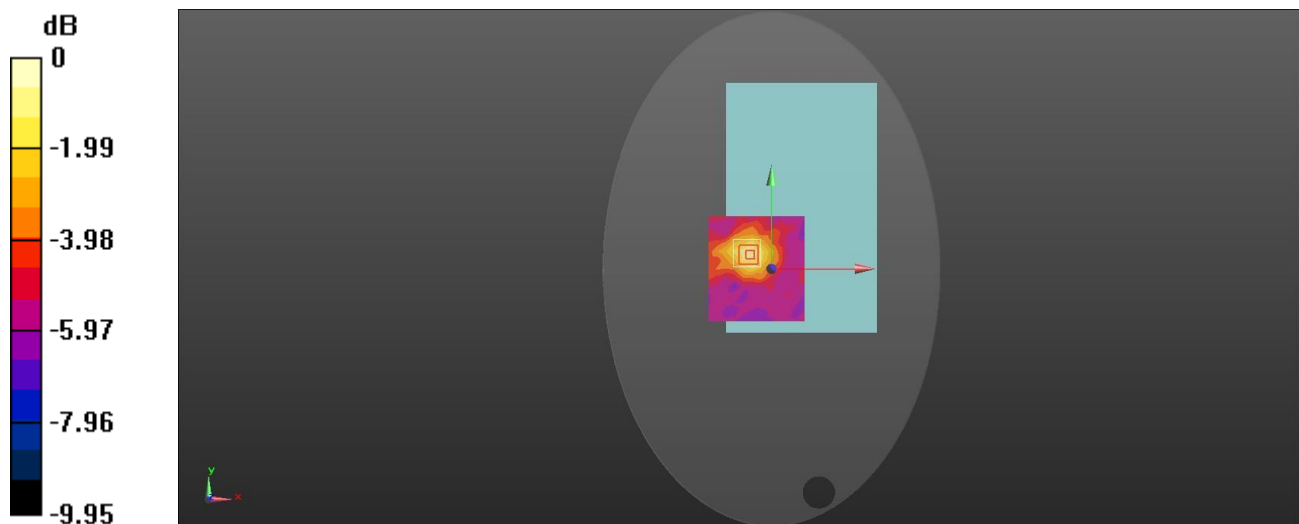
**Configuration/Body/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.018 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.306 W/kg

**SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.165 W/kg**

Maximum value of SAR (measured) = 0.283 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg



Test Laboratory: LCS-SAR Lab

**WIFI 5.5G 802.11ac 80M 106CH Rear side 0mm**

**DUT: Smart Diagnostic System; Type: P102; Serial: A10273193-1**

Communication System: UID 0, WI-FI(5.5GHz) (0); Frequency: 5530 MHz;Duty Cycle: 1:1.574

Medium parameters used:  $f = 5530$  MHz;  $\sigma = 5.017$  S/m;  $\epsilon_r = 36.22$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3805; ConvF(4.75, 4.75, 4.75); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn419; Calibrated: 2023/6/20
- Phantom: ELI v5.0; Type: ELI; Serial: 2010
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x13x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.249 W/kg

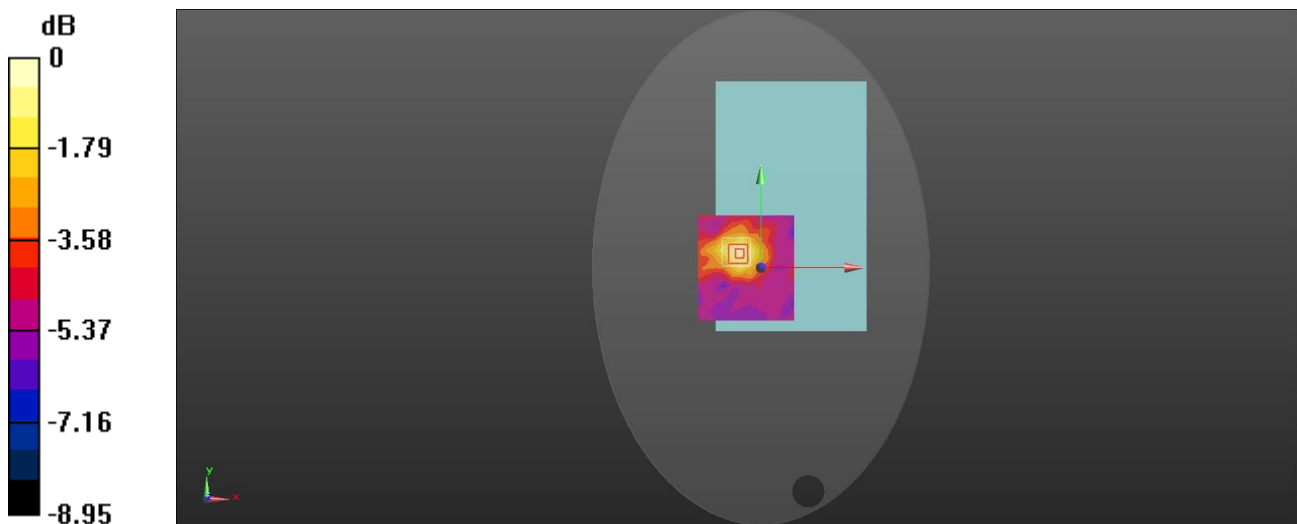
**Configuration/Body/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.726 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.308 W/kg

**SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.170 W/kg**

Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.273 W/kg = -5.64 dBW/kg



Test Laboratory: LCS-SAR Lab

**WIFI 5.8G 802.11a 149CH Rear side 0mm**

**DUT: Smart Diagnostic System; Type: P102; Serial: A10273193-1**

Communication System: UID 0, WI-FI(5.8GHz) (0); Frequency: 5745 MHz;Duty Cycle: 1:1.123

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.405 \text{ S/m}$ ;  $\epsilon_r = 35.442$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3805; ConvF(4.88, 4.88, 4.88); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn419; Calibrated: 2023/6/20
- Phantom: ELI v5.0; Type: ELI; Serial: 2010
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x13x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.258 W/kg

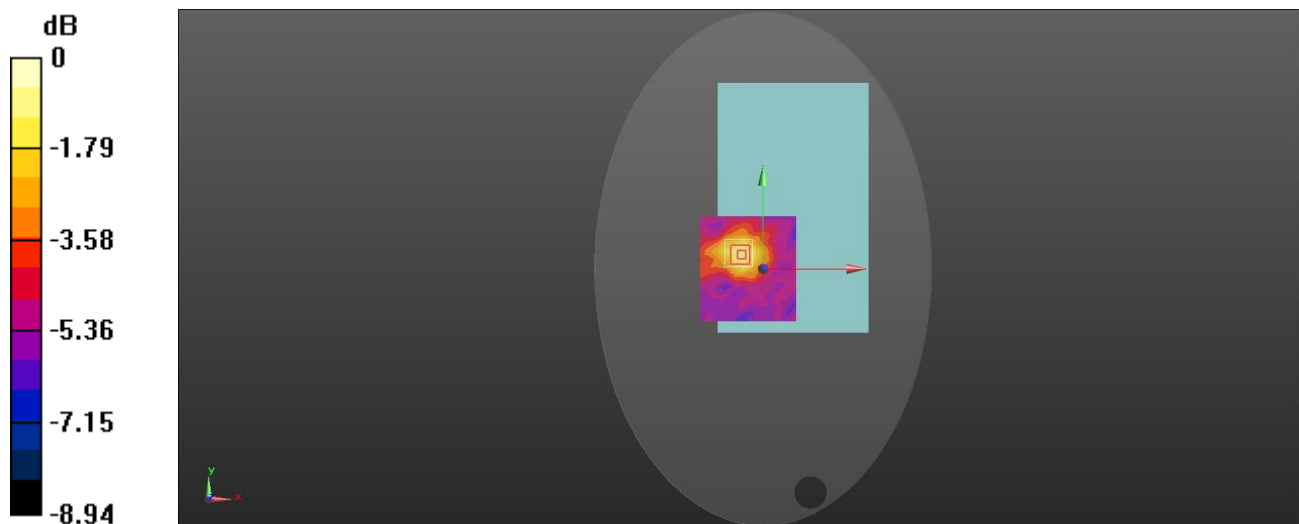
**Configuration/Body/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.085 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.342 W/kg

**SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.179 W/kg**

Maximum value of SAR (measured) = 0.298 W/kg



0 dB = 0.298 W/kg = -5.26 dBW/kg

