



Appendix B

Detailed Test Results

1. WIFI
WIFI 5.2GHz for Body
WIFI 5.8GHz for Body





Date: 2024/4/19

Test Laboratory: LCS-SAR Lab

WIFI 5.2G 802.11a 40CH Rear side 0mm ANT1**DUT: Wireless Scanning Module; Type: FREEBOX-II; Serial: A240325033-1**

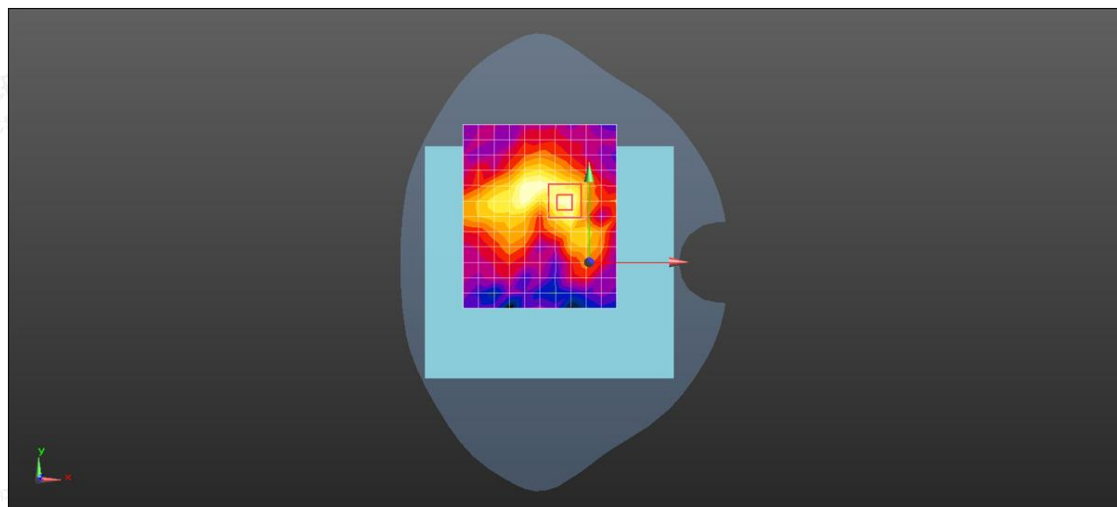
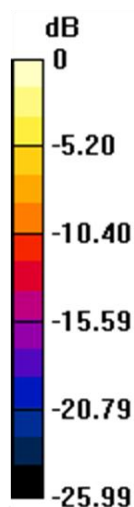
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5200 MHz; Duty Cycle: 1:1.057

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.710 \text{ S/m}$; $\epsilon_r = 35.765$; $\rho = 1000 \text{ kg/m}^3$

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 Sn373; Calibrated: 2024/1/3
- Phantom: SAM v5.0; Type: SAM; Serial: 1850
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (11x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (measured) = 0.180 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 = 0.9240 V/m ; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.509 W/kg **SAR(1 g) = 0.105 W/kg ; SAR(10 g) = 0.033 W/kg** Maximum value of SAR (measured) = 0.180 W/kg  $0 \text{ dB} = 0.180 \text{ W/kg} = -7.44 \text{ dBW/kg}$ 

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Date: 2024/4/19

Test Laboratory: LCS-SAR Lab

WIFI 5.2G 802.11a 36CH Rear side 0mm ANT2**DUT: Wireless Scanning Module; Type: FREEBOX-II; Serial: A240325033-1**

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5180 MHz; Duty Cycle: 1:1.058

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.652 \text{ S/m}$; $\epsilon_r = 36.16$; $\rho = 1000 \text{ kg/m}^3$

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), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn373; Calibrated: 2024/1/3
- Phantom: SAM v5.0; Type: SAM; Serial: 1850
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Unnamed procedure/Area Scan (11x18x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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

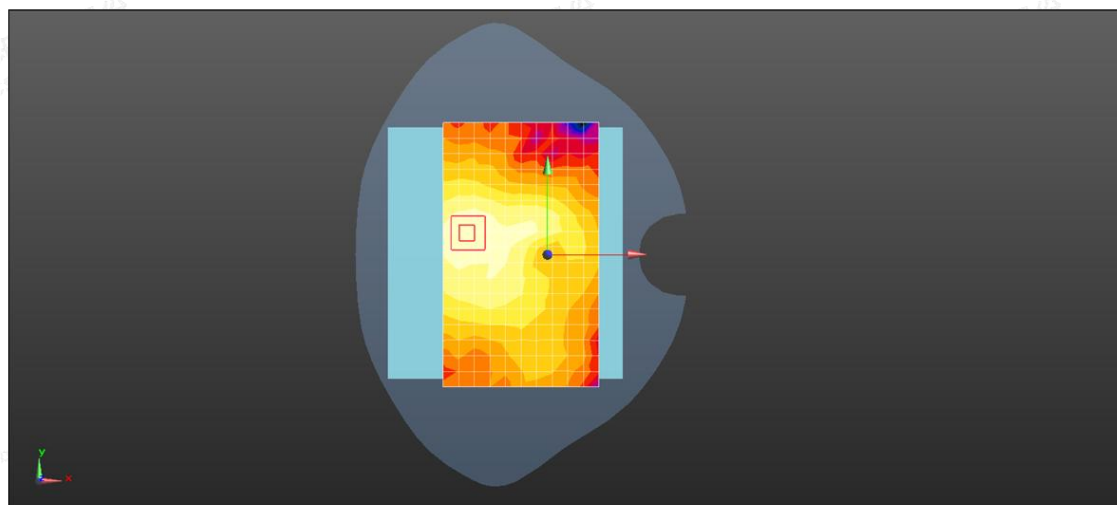
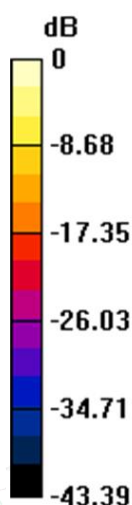
Configuration/Unnamed procedure/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.889 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.082 W/kg (SAR corrected for target medium)

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

 $0 \text{ dB} = 0.283 \text{ W/kg} = -5.48 \text{ dBW/kg}$ 

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Date: 2024/4/19

Test Laboratory: LCS-SAR Lab

WIFI 5.8G 802.11a 165CH Rear side 0mm ANT1**DUT: Wireless Scanning Module; Type: FREEBOX-II; Serial: A240325033-1**

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1.057

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.234$ S/m; $\epsilon_r = 35.443$; $\rho = 1000$ kg/m³

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 Sn373; Calibrated: 2024/1/3
- Phantom: SAM v5.0; Type: SAM; Serial: 1850
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (11x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.288 W/kg

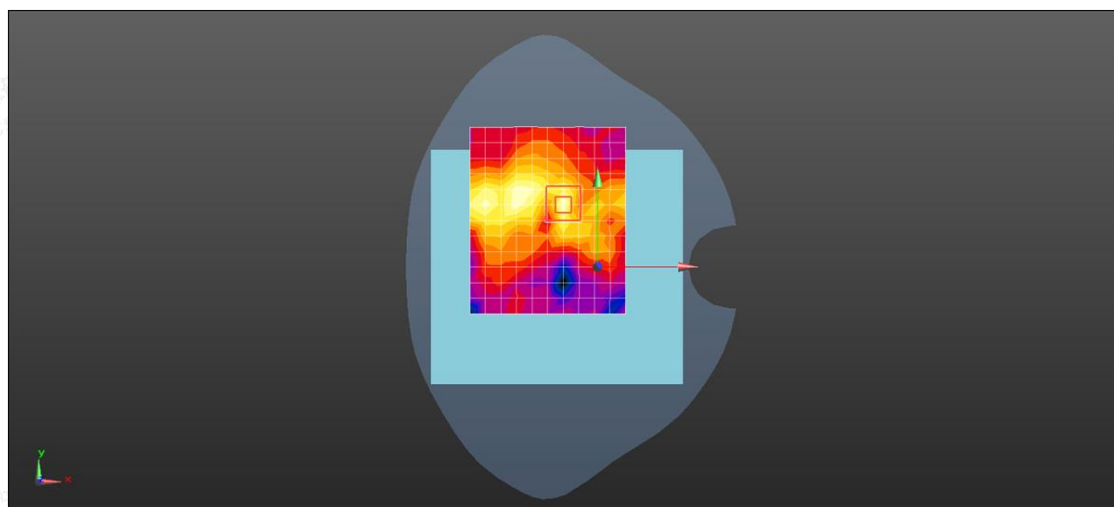
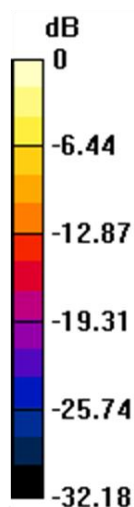
Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.022 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.939 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.288 W/kg



0 dB = 0.288 W/kg = -5.41 dBW/kg



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Date: 2024/4/19

Test Laboratory: LCS-SAR Lab

WIFI 5.8GHz 802.11a 165CH Rear side 0mm ANT2**DUT: Wireless Scanning Module; Type: FREEBOX-II; Serial: A240325033-1**

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1.057

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.234$ S/m; $\epsilon_r = 35.443$; $\rho = 1000$ kg/m³

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), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn373; Calibrated: 2024/1/3
- Phantom: SAM v5.0; Type: SAM; Serial: 1850
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Unnamed procedure/Area Scan (11x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.240 W/kg

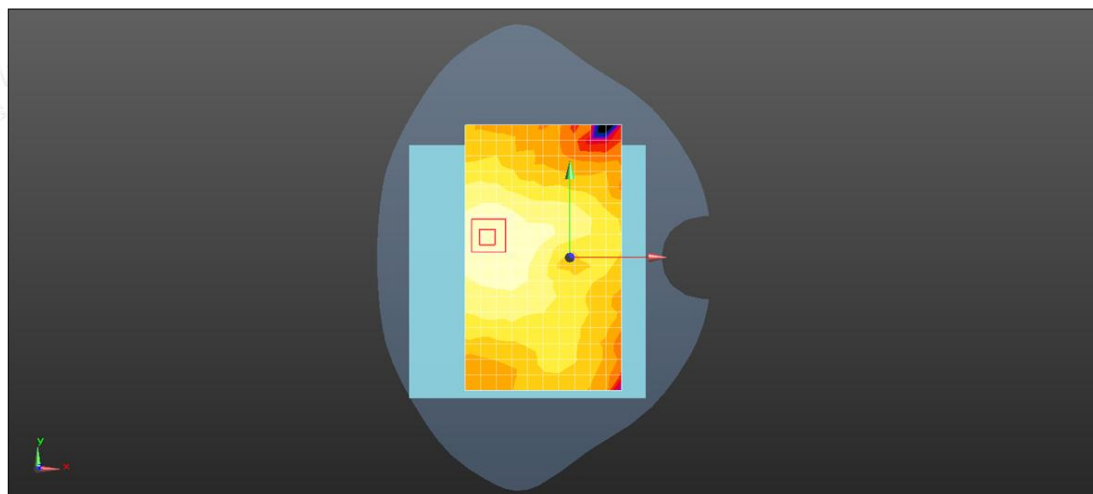
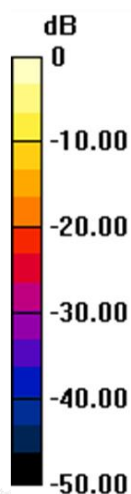
Configuration/Unnamed procedure/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.276 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.073 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg = -6.21 dBW/kg



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