Test Laboratory: BTL Inc. Date: 2025/1/20

W04_802.11b_CH11_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

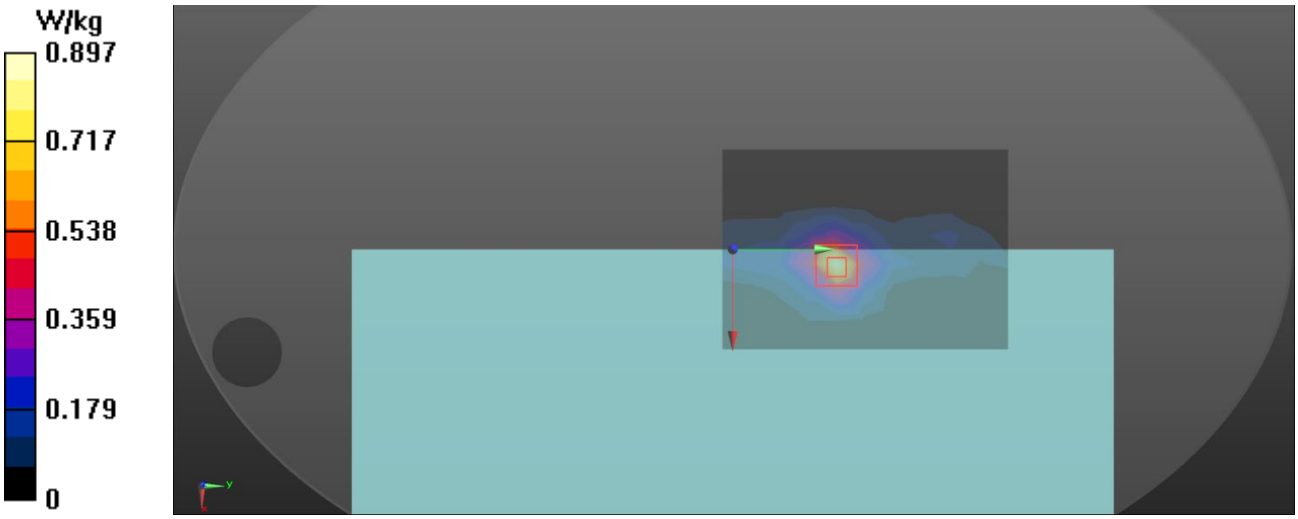
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle);
Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.834 S/m; ε_r = 39.593; ρ = 1000 kg/m^3
Ambient Temperature: 23 ℃; Liquid Temperature: 22.4 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.08, 8.08, 8.08) @ 2462 MHz; Calibrated: 2024/3/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1717; Calibrated: 2024/4/18
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x14x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.897 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.063 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.911 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/20

W06_802.11b_CH11_Back of Keyboard_0mm_Ant Aux

DUT: Laptop Computer;

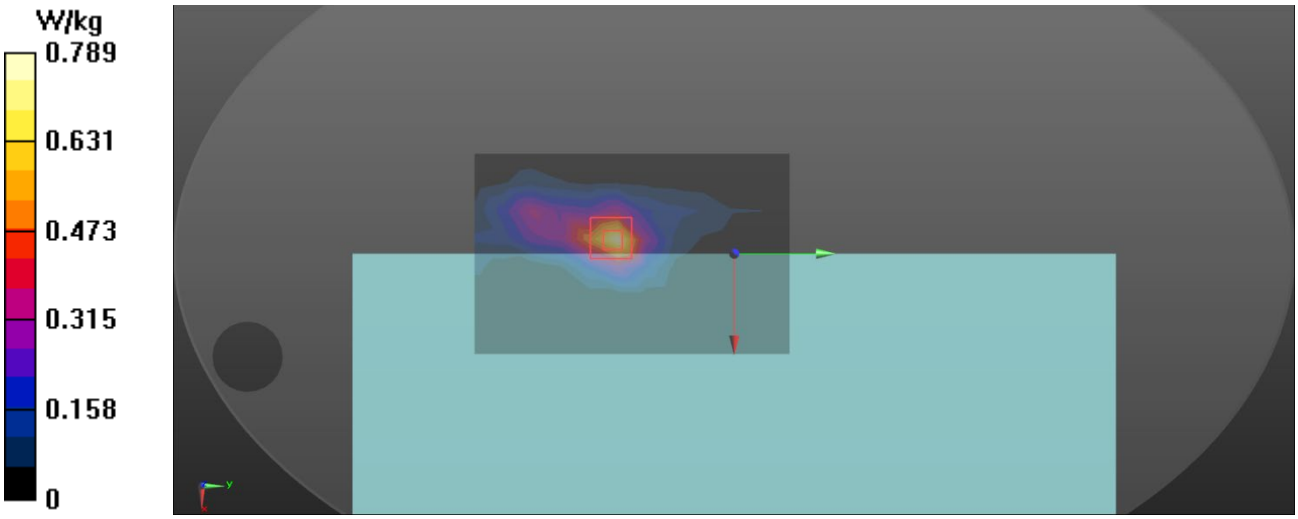
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle);
Frequency: 2462 MHz; Duty Cycle: 1:1.4243
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.834 S/m; ε_r = 39.593; ρ = 1000 kg/m^3
Ambient Temperature: 23 ℃; Liquid Temperature: 22.4 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.08, 8.08, 8.08) @ 2462 MHz; Calibrated: 2024/3/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1717; Calibrated: 2024/4/18
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x15x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.789 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.657 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.214 W/kg
Maximum value of SAR (measured) = 0.769 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/20

W12_BT DH5_CH78_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

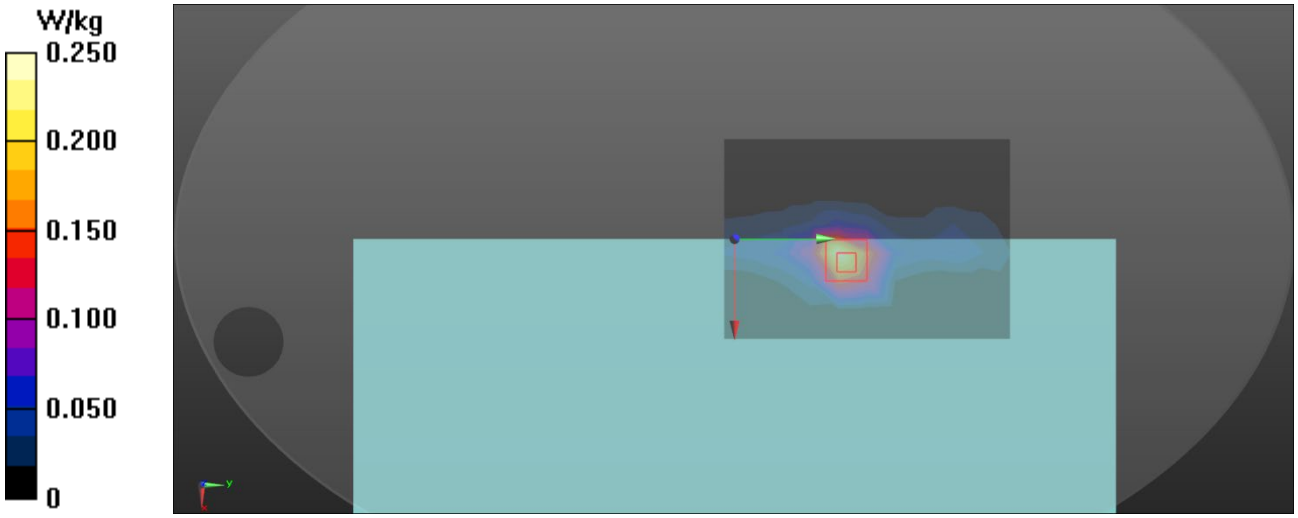
Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1
Medium parameters used: f = 2480 MHz; σ = 1.856 S/m; ε_r = 39.535; ρ = 1000 kg/m^3
Ambient Temperature: 23 ℃; Liquid Temperature: 22.4 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.08, 8.08, 8.08) @ 2480 MHz; Calibrated: 2024/3/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1717; Calibrated: 2024/4/18
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (10x14x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.250 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.359 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.072 W/kg
Maximum value of SAR (measured) = 0.289 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W14_802.11ac VHT80_CH42_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

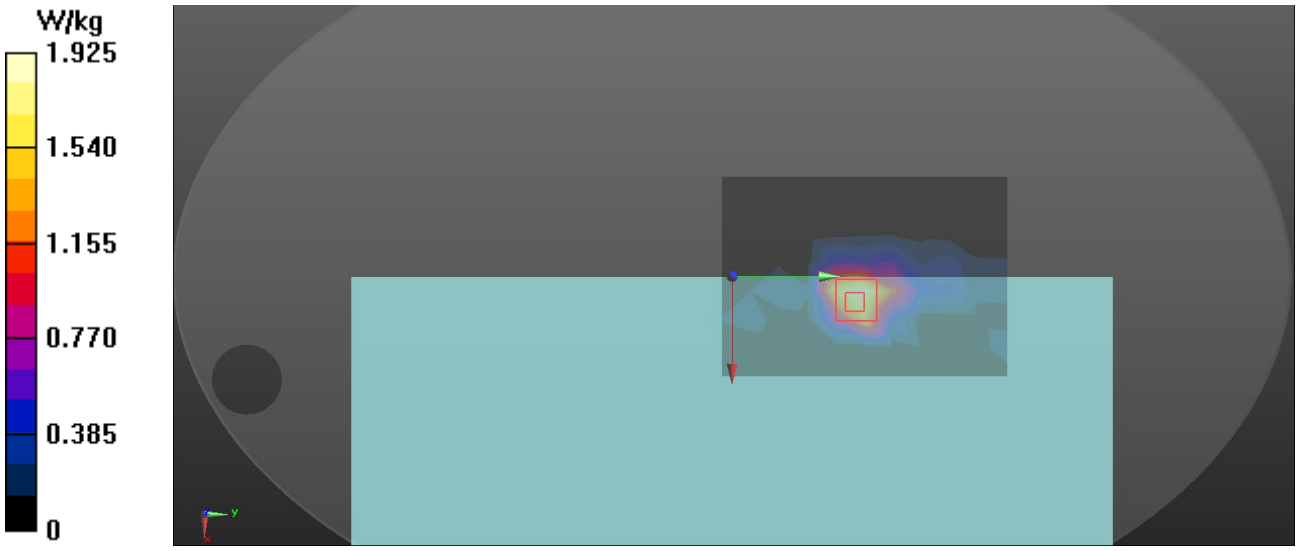
Communication System: UID 10626 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle); Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5210 MHz; σ = 4.755 S/m; ε_r = 36.01; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.82, 5.67, 6.08) @ 5210 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.93 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.404 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.66 W/kg
SAR(1 g) = 0.97 W/kg; SAR(10 g) = 0.332 W/kg
Maximum value of SAR (measured) = 2.39 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W16_802.11ac VHT80_CH42_Back of Keyboard_0mm_Ant Aux

DUT: Mobile WiFi;

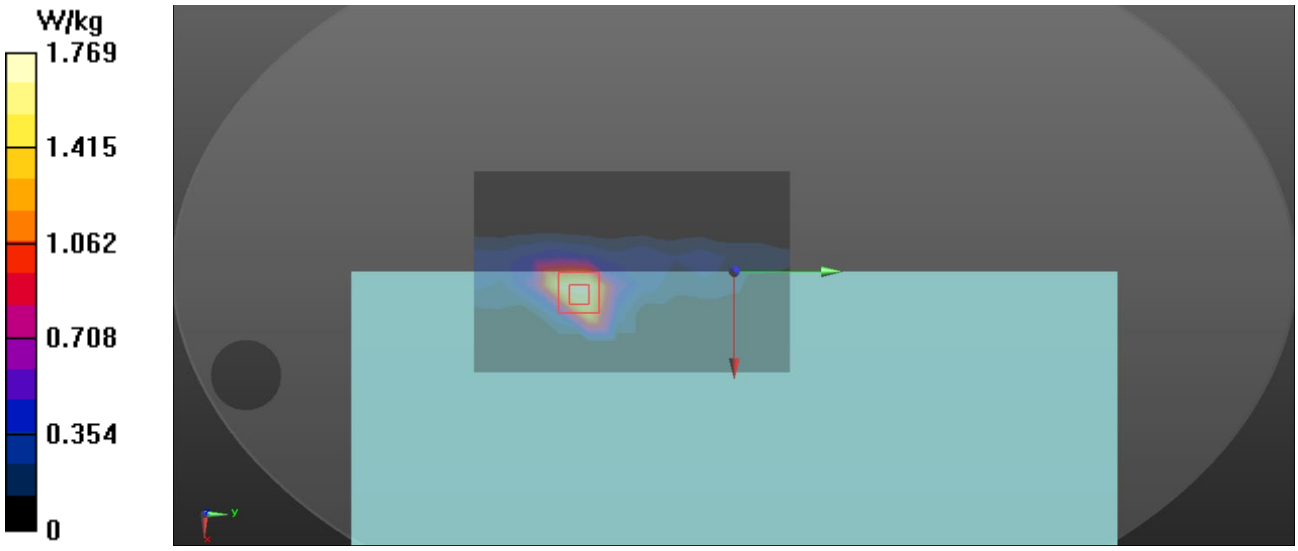
Communication System: UID 10626 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle); Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5210 MHz; σ = 4.755 S/m; ε_r = 36.01; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.82, 5.67, 6.08) @ 5210 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.77 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 7.922 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 4.59 W/kg
SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.366 W/kg
Maximum value of SAR (measured) = 2.20 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W18_802.11ac VHT160_CH50_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

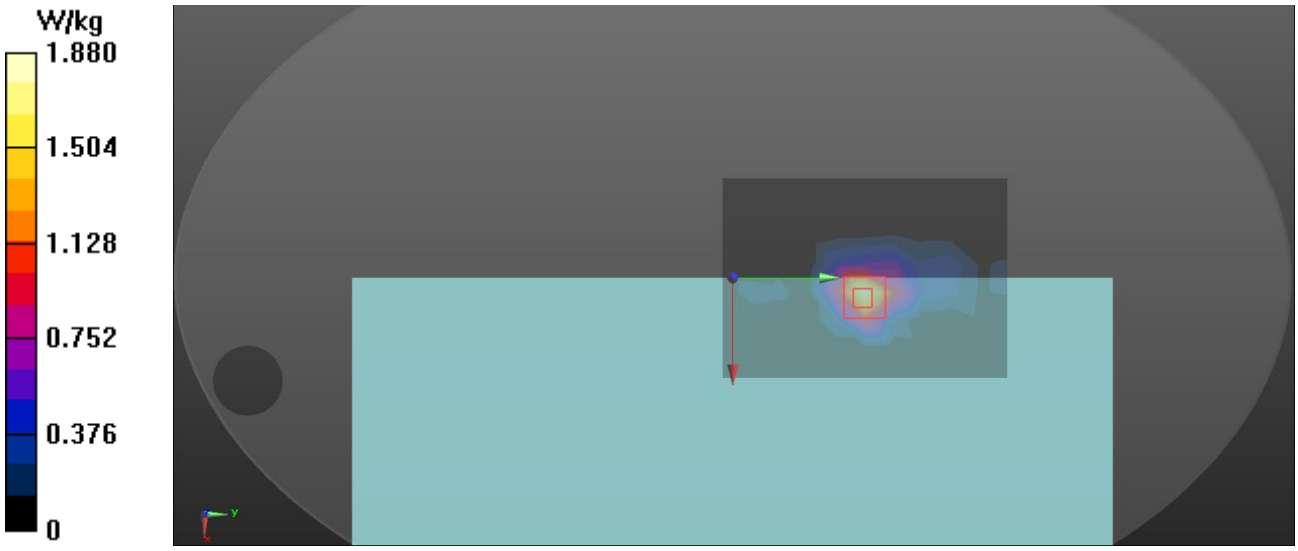
Communication System: UID 10554 - AAC, IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5250 MHz; σ = 4.78 S/m; ε_r = 35.811; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.82, 5.67, 6.08) @ 5250 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.88 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.445 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.68 W/kg
SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.302 W/kg
Maximum value of SAR (measured) = 1.80 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W20_802.11ac VHT160_CH50_Back of Keyboard_0mm_Ant Aux

DUT: Laptop Computer;

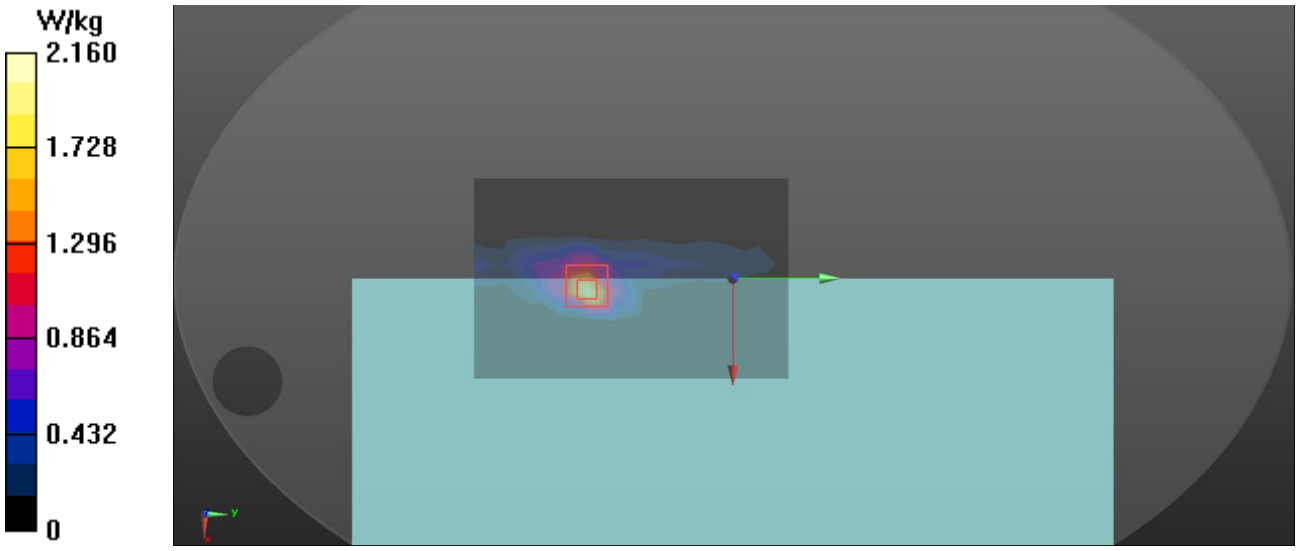
Communication System: UID 10554 - AAC, IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5250 MHz; σ = 4.78 S/m; ε_r = 35.811; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.82, 5.67, 6.08) @ 5250 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.16 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.376 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 4.70 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.340 W/kg
Maximum value of SAR (measured) = 2.18 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W22_802.11ac VHT160_CH114_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

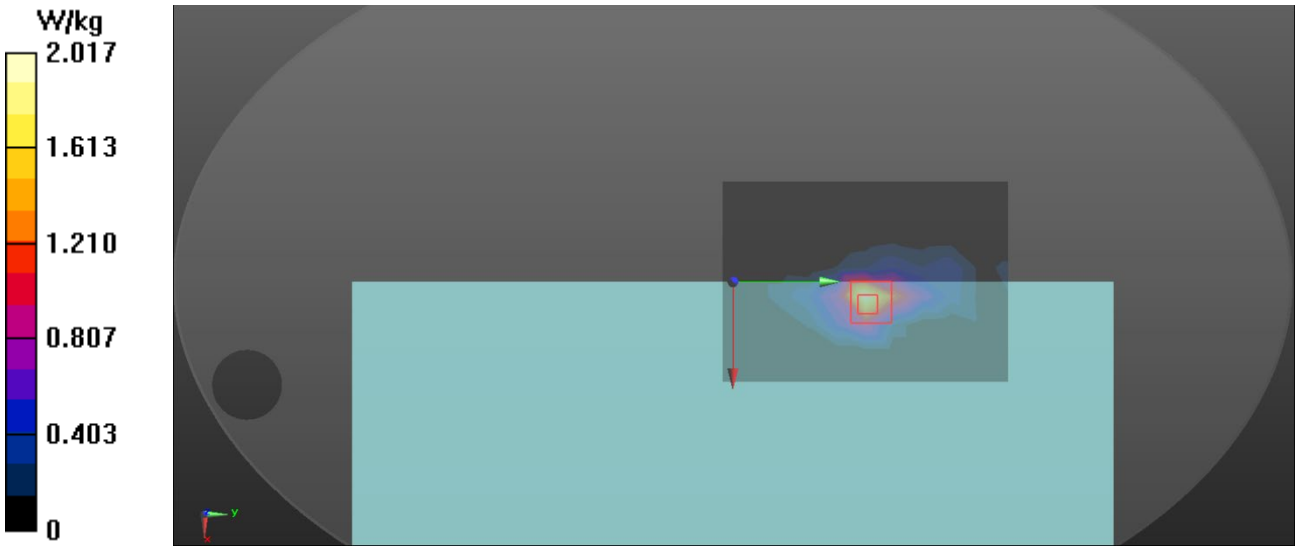
Communication System: UID 10554 - AAC, IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle); Frequency: 5570 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5570 MHz; σ = 5.221 S/m; ε_r = 35.012; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.15, 5.02, 5.38) @ 5570 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.02 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.193 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.34 W/kg
SAR(1 g) = 0.874 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 2.27 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W24_802.11ac VHT160_CH114_Back of Keyboard_0mm_Ant Aux

DUT: Laptop Computer;

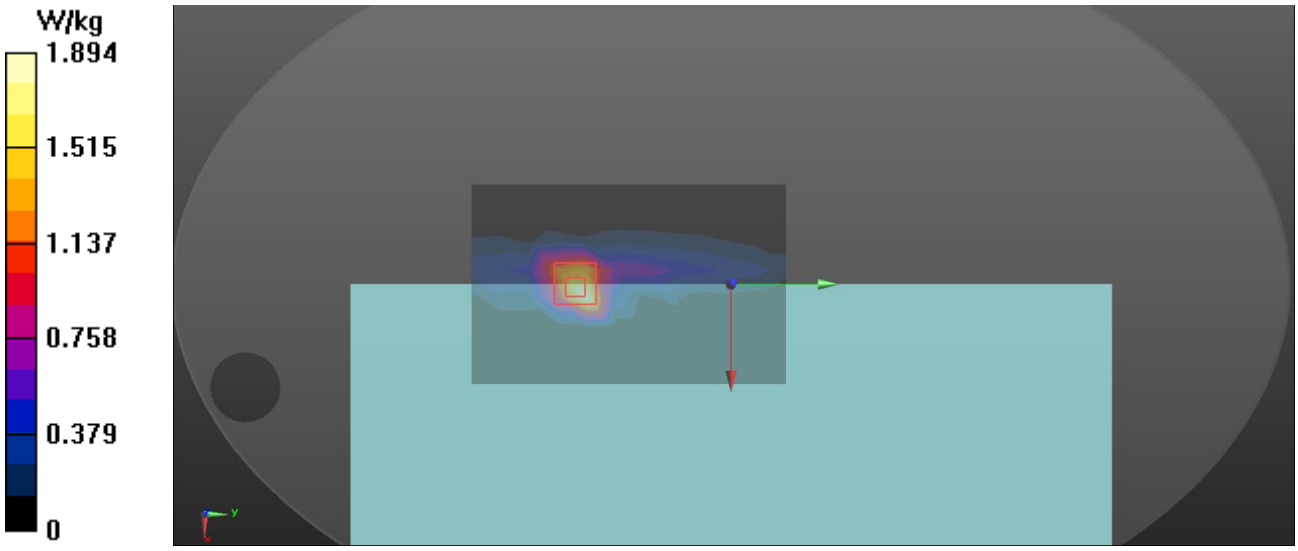
Communication System: UID 10554 - AAC, IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle); Frequency: 5570 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5570 MHz; σ = 5.221 S/m; ε_r = 35.012; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.15, 5.02, 5.38) @ 5570 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.89 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.895 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 4.54 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 2.56 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W26_802.11ac VHT80_CH155_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

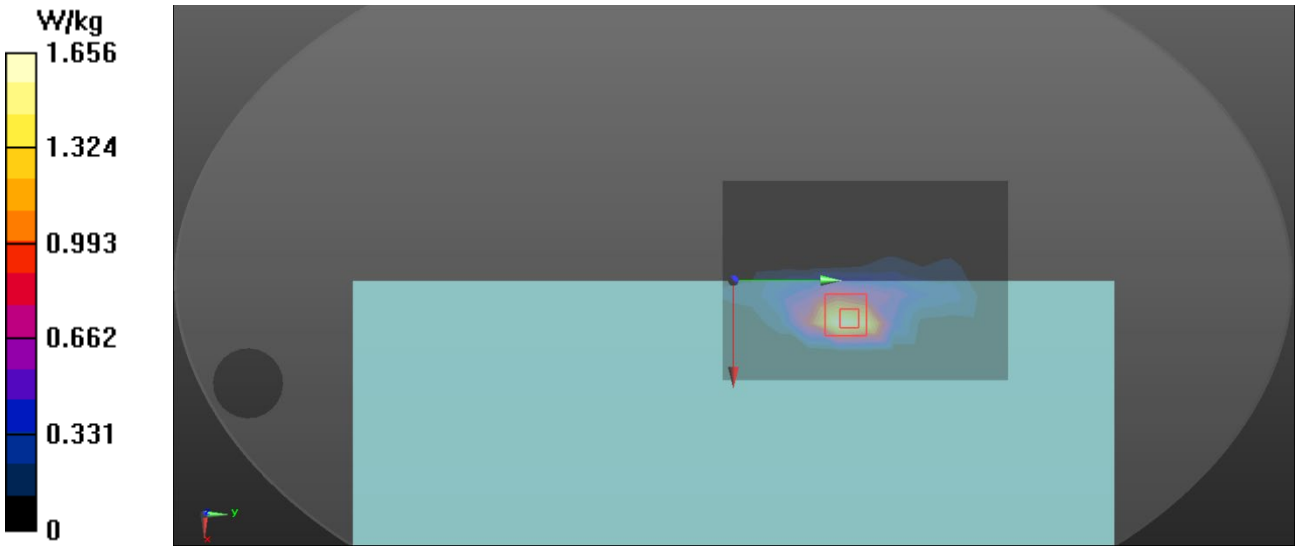
Communication System: UID 10544 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle); Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 5.411 S/m; ε_r = 34.489; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.17, 5.04, 5.4) @ 5785 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.66 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.319 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.03 W/kg
SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.280 W/kg
Maximum value of SAR (measured) = 1.88 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/19

W28_802.11ac VHT80_CH155_Back of Keyboard_0mm_Ant Aux

DUT: Laptop Computer;

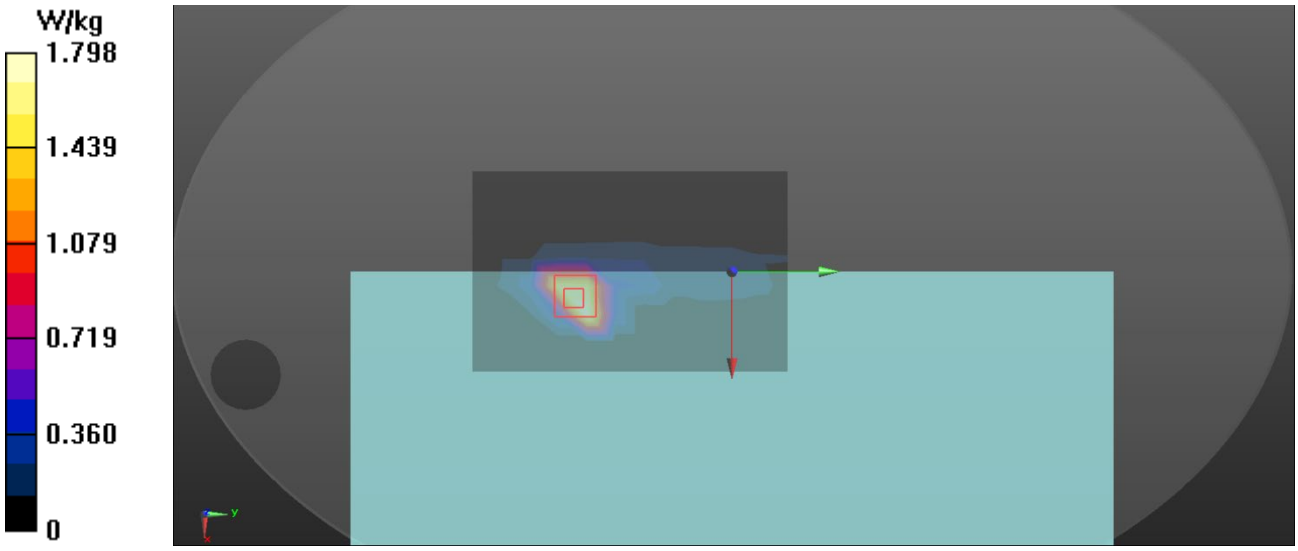
Communication System: UID 10544 - AAB, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle); Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: f = 5775 MHz; σ = 5.404 S/m; ε_r = 34.518; ρ = 1000 kg/m^3
Ambient Temperature: 23.1 ℃; Liquid Temperature: 22.5 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.17, 5.04, 5.4) @ 5775 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.80 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 7.591 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 7.00 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.368 W/kg
Maximum value of SAR (measured) = 2.37 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/21

W30_802.11ac VHT160_CH163_Back of Keyboard_0mm_Ant Main

DUT: Laptop Computer;

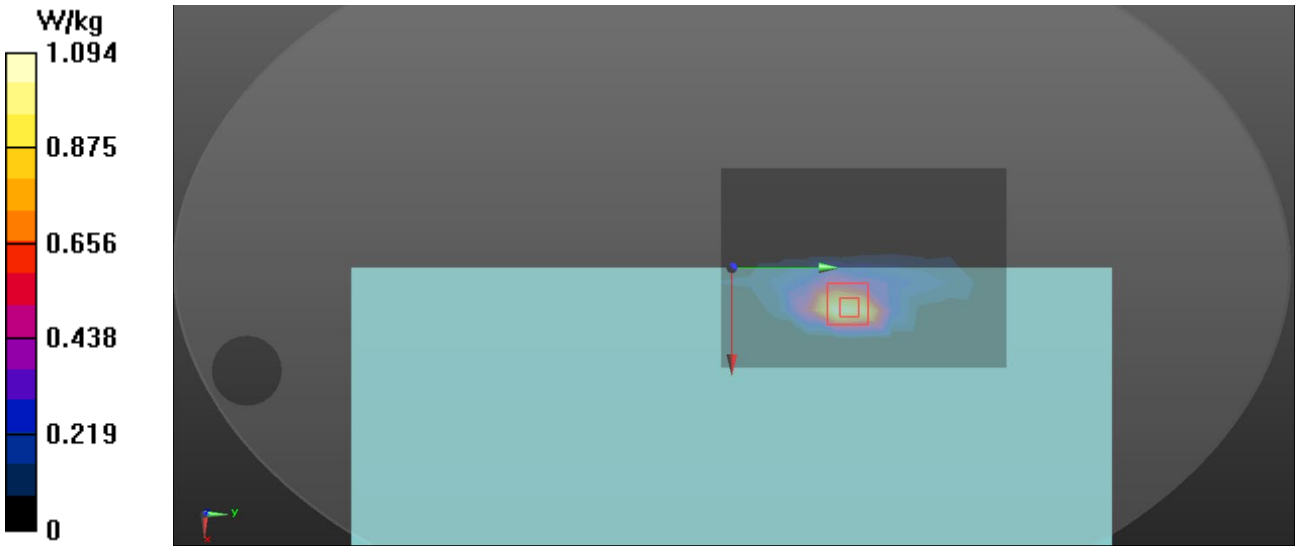
Communication System: UID 10554 - AAC, IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle); Frequency: 5815 MHz; Duty Cycle: 1:1
Medium parameters used: f = 5815 MHz; σ = 5.395 S/m; ε_r = 34.011; ρ = 1000 kg/m^3
Ambient Temperature: 22.8 ℃; Liquid Temperature: 22.3 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.21, 5.07, 5.44) @ 5815 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.09 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.277 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.96 W/kg
SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.161 W/kg
Maximum value of SAR (measured) = 1.11 W/kg



Test Laboratory: BTL Inc. Date: 2025/1/21

W32_802.11ac VHT160_CH163_Back of Keyboard_0mm_Ant Aux

DUT: Laptop Computer;

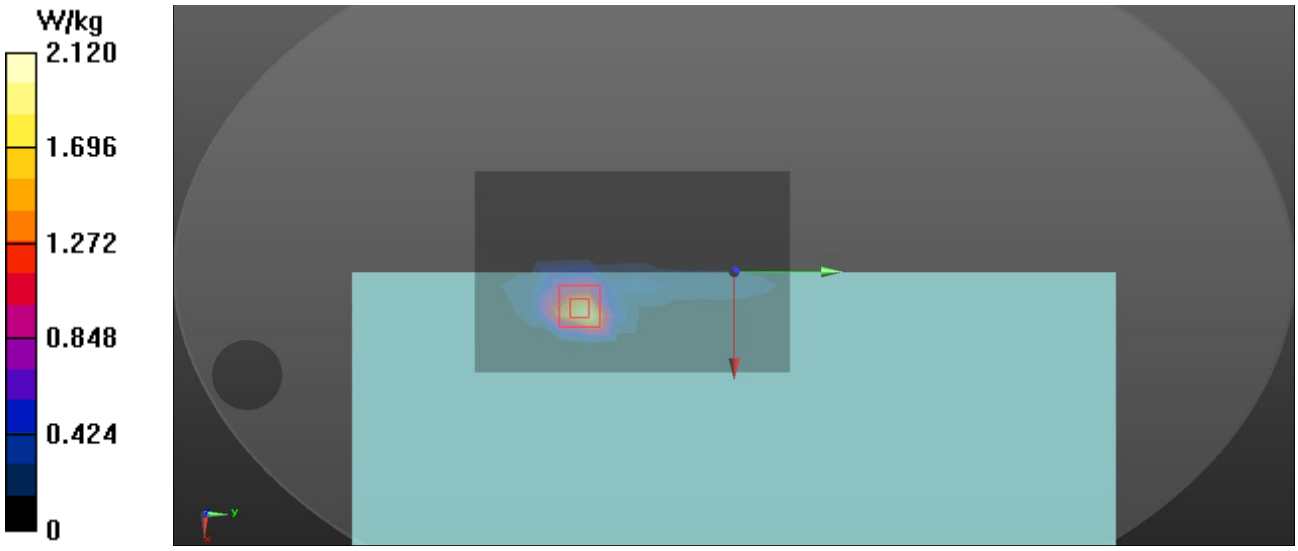
Communication System: UID 10554 - AAC, IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle); Frequency: 5815 MHz; Duty Cycle: 1:1
Medium parameters used: f = 5815 MHz; σ = 5.395 S/m; ε_r = 34.011; ρ = 1000 kg/m^3
Ambient Temperature: 22.8 ℃; Liquid Temperature: 22.3 ℃

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.21, 5.07, 5.44) @ 5815 MHz; Calibrated: 2024/11/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn420; Calibrated: 2024/3/19
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (12x17x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.12 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.755 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 7.93 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.337 W/kg
Maximum value of SAR (measured) = 2.61 W/kg



Measurement Report for W34_802.11ax HE160_CH79_Back of Keyboard_0mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-5	WLAN, AAC10743-	6345.000, 79	5.45	5.77	34.5

Hardware Setup

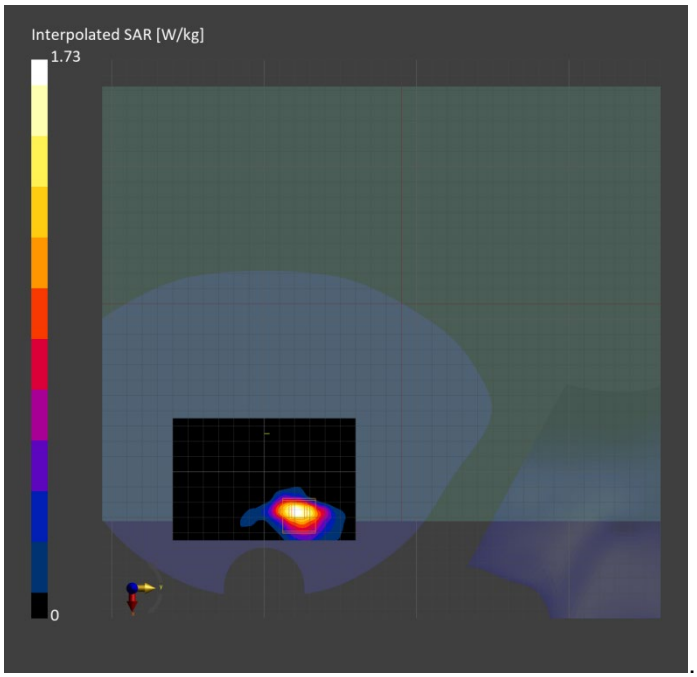
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122,--	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	75.0 x 105.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.477	0.452
psSAR10g [W/kg]	0.159	0.159
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.6
Dist 3dB Peak [mm]		6.3



Measurement Report for W39_802.11ax HE160_CH15_Back of Keyboard_0mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	FRONT, 0.00	U-NII-5	WLAN, AAC10743-	6025.000, 15	5.45	5.46	34.9

Hardware Setup

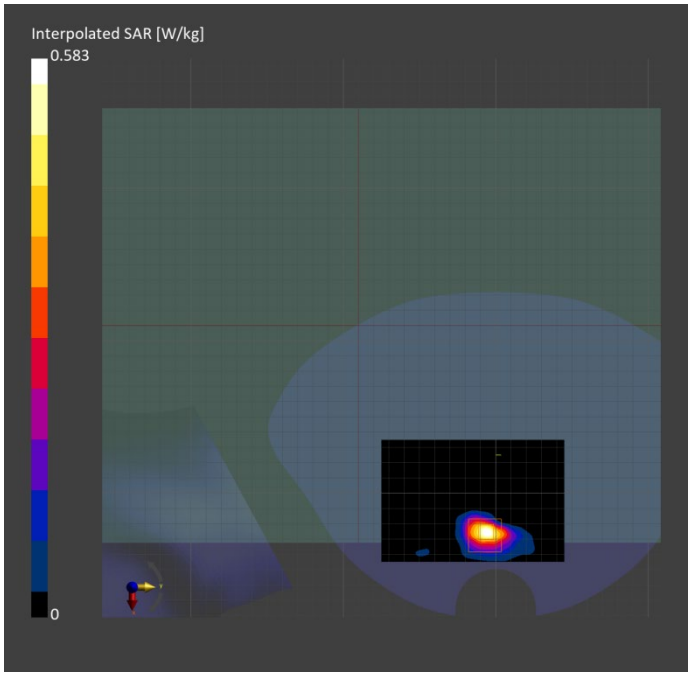
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.397	0.394
psSAR10g [W/kg]	0.124	0.125
Power Drift [dB]	-0.03	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.7
Dist 3dB Peak [mm]		6.7



Measurement Report for W42_802.11ax HE160_CH111_Back of Keyboard_0mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-6	WLAN, AAC10743-	6505.000, 111	5.45	6.08	34.0

Hardware Setup

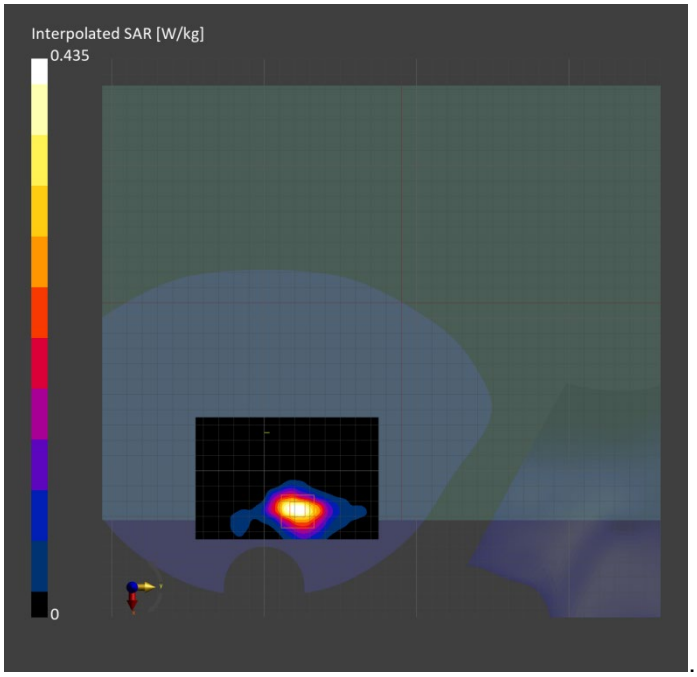
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.344	0.351
psSAR10g [W/kg]	0.117	0.125
Power Drift [dB]	-0.05	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		6.8



Measurement Report for W44_802.11ax HE160_CH111_Back of Keyboard_0mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-6	WLAN, AAC10743-	6505.000, 111	5.45	6.08	34.0

Hardware Setup

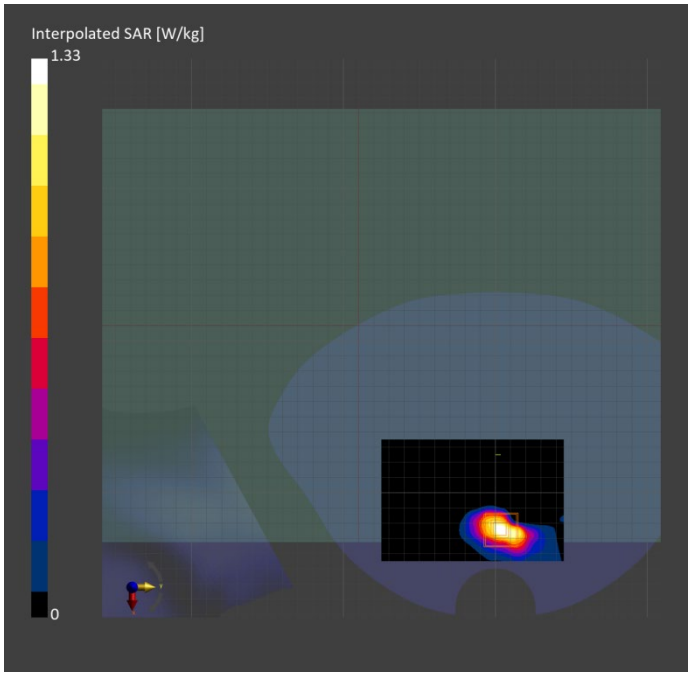
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.351	0.325
psSAR10g [W/kg]	0.118	0.111
Power Drift [dB]	-0.05	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.4
Dist 3dB Peak [mm]		6.1



Measurement Report for W47_802.11ax HE160_CH143_Back of Keyboard_0mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-7	WLAN, AAC10743-	6665.000, 143	5.45	6.39	33.6

Hardware Setup

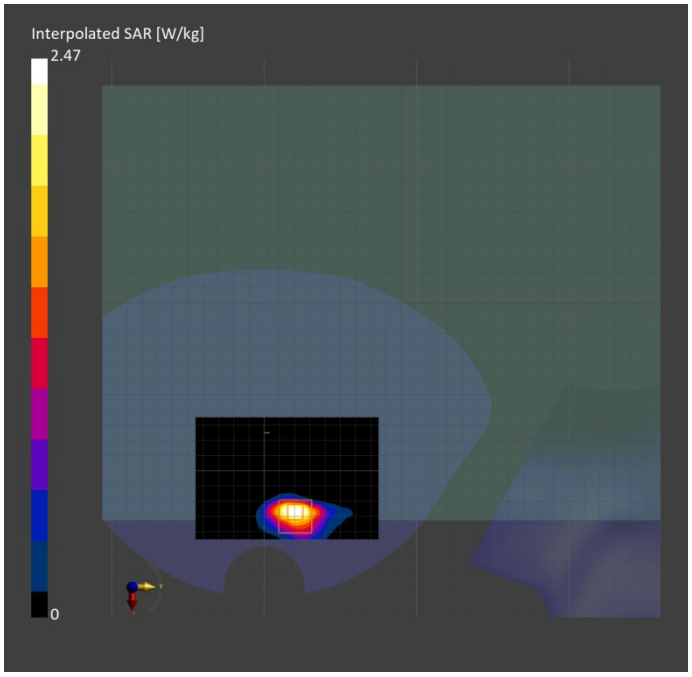
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	75.0 x 105.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.623	0.578
psSAR10g [W/kg]	0.209	0.198
Power Drift [dB]	0.06	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.1
Dist 3dB Peak [mm]		6.2



Measurement Report for W50_802.11ax HE160_CH175_Back of Keyboard_0mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-7	WLAN, AAC10743-	6825.000, 175	5.45	6.39	33.6

Hardware Setup

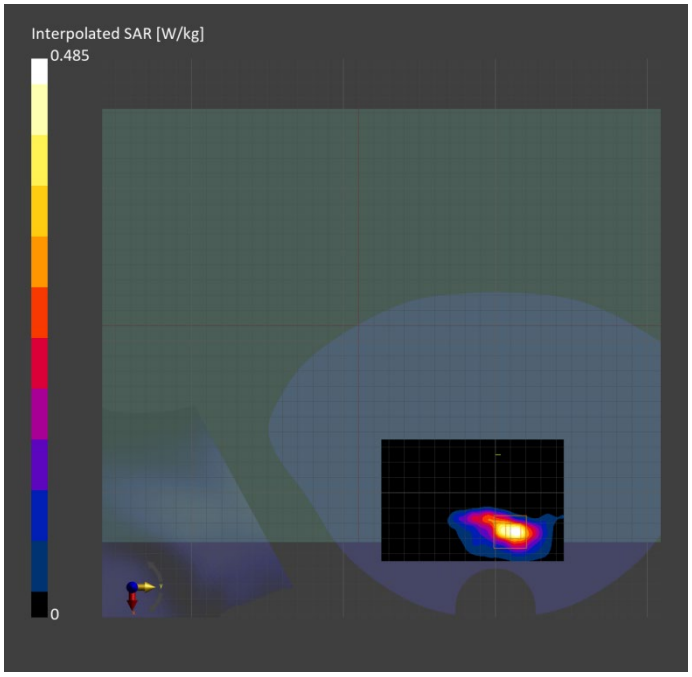
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	75.0 x 105.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.365	0.354
psSAR10g [W/kg]	0.116	0.107
Power Drift [dB]	-0.03	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		5.5



Measurement Report for W52_802.11ax HE160_CH207_Back of Keyboard_0mm_Ant Main

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-8	WLAN, AAC10743-	6985.000, 207	5.45	6.69	33.2

Hardware Setup

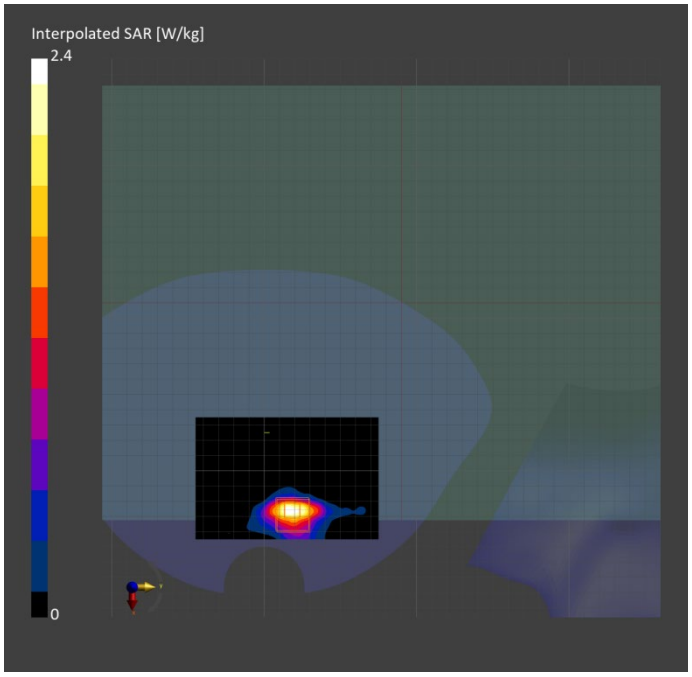
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	75.0 x 105.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.609	0.534
psSAR10g [W/kg]	0.201	0.179
Power Drift [dB]	0.11	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		6.8



Measurement Report for W54_802.11ax HE160_CH207_Back of Keyboard_0mm_Ant Aux

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL Head Simulating Liquid	BACK, 0.00	U-NII-8	WLAN, AAC10743-	6985.000, 207	5.45	6.69	33.2

Hardware Setup

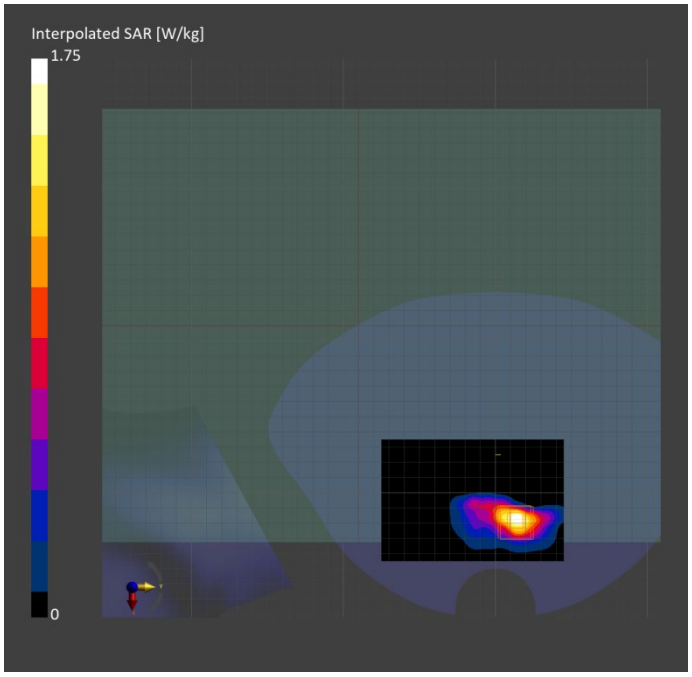
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2081	HBBL-600-10000 Charge:0122, --	EX3DV4 - SN7351, 2024-03-20	DAE4 Sn1717, 2024-04-18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	75.0 x 105.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-22	2025-01-22
psSAR1g [W/kg]	0.417	0.391
psSAR10g [W/kg]	0.139	0.124
Power Drift [dB]	-0.02	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.7
Dist 3dB Peak [mm]		6.2



Measurement Report for Device, BACK, U-NII-5, UID 10743 AAC, Channel 15 (6025.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BACK, 2.00	U-NII-5	WLAN, 10743-AAC	6025.0, 15	1.0

Hardware Setup

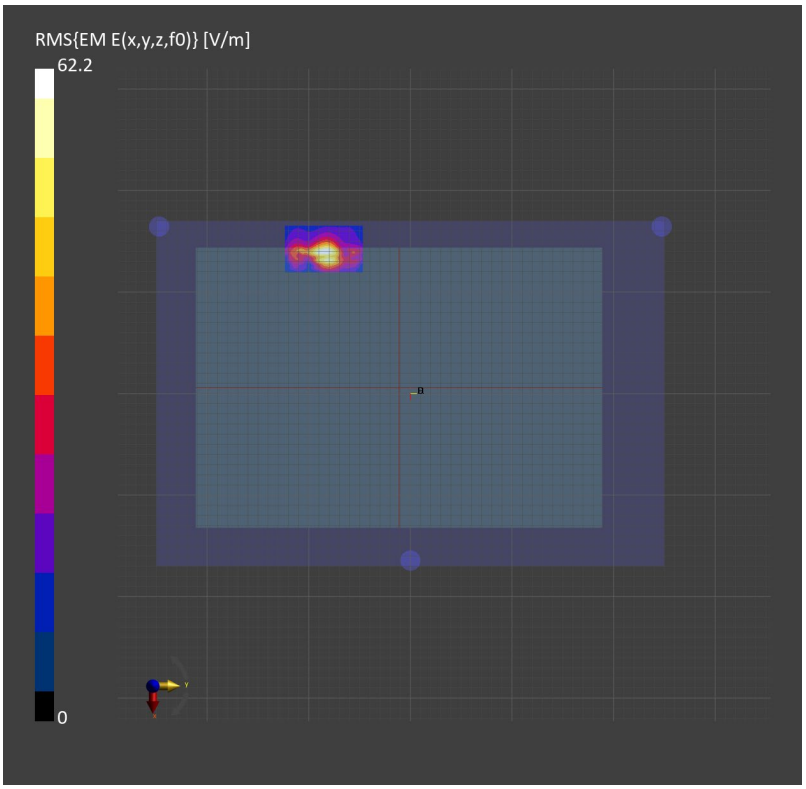
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- xxxx	---Air	EUmmWV4 - SN9503_F1-55GHz, 2024-11-11	DAE4 Sn1717, 2024-04-18

Scan Setup

	5G Scan
Grid Extents [mm]	25.0 x 75.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

	5G Scan
Date	2025-01-24
Avg.Area [cm^2]	4.00
psPDn+ [W/m^2]	3.01
psPDtot+ [W/m^2]	4.22
psPDmod+ [W/m^2]	4.43
E_{max} [V/m]	62.2
Power Drift [dB]	0.02



Measurement Report for Device, BACK, U-NII-7, UID 10743 AAC, Channel 143 (6665.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	400.0 x 285.0 x 22.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	BACK, 2.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- xxxx	---Air	EUmmWV4 - SN9503_F1-55GHz, 2024-11-11	DAE4 Sn1717, 2024-04-18

Scan Setup

	5G Scan
Grid Extents [mm]	25.0 x 50.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

	5G Scan
Date	2025-01-24
Avg.Area [cm^2]	4.00
psPDn+ [W/m^2]	3.2
psPDtot+ [W/m^2]	4.1
psPDmod+ [W/m^2]	4.32
E_{max} [V/m]	58.8
Power Drift [dB]	-0.05