# Appendix C – Highest Test Plots

Date: 2024/4/15

**1_WLAN2.4G_802.11b_Bottom of laptop_0 mm_Ch6_ANT 0**

**DUT: UM5606W**

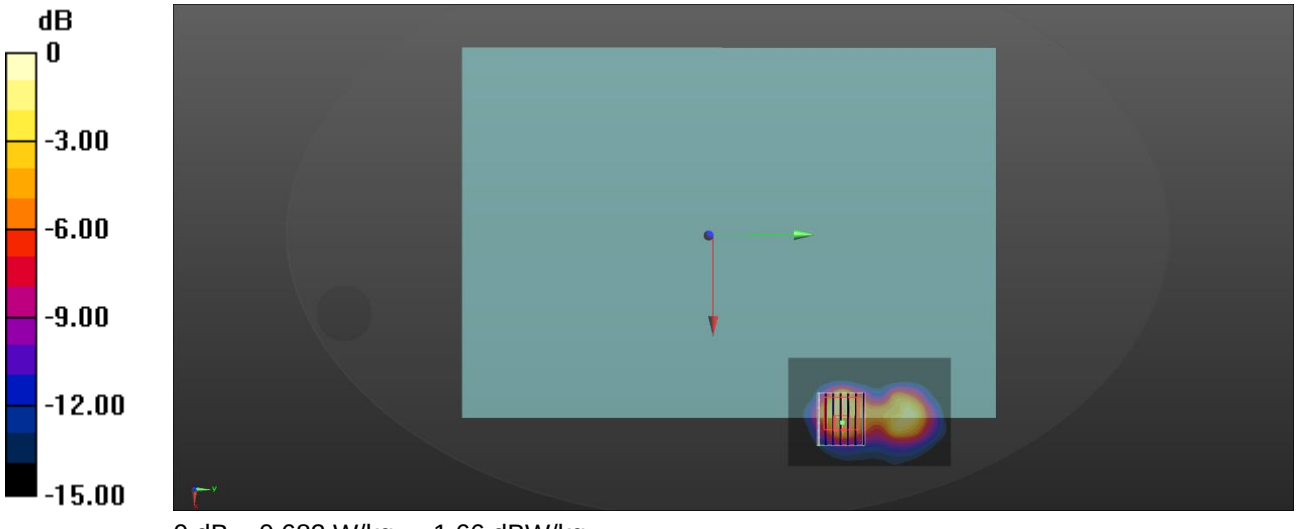
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.071
Medium parameters used: f = 2437 MHz; $\sigma$ = 1.818 S/m; $\varepsilon_r$ = 40.122; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(7.73, 7.11, 7.58) @ 2437 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (61x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.551 W/kg

**Zoom Scan (8x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.79 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.920 W/kg
**SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.164 W/kg**
Smallest distance from peaks to all points 3 dB below = 5.3 mm
Ratio of SAR at M2 to SAR at M1 = 38.7%
Maximum value of SAR (measured) = 0.682 W/kg




0 dB = 0.682 W/kg = -1.66 dBW/kg

Date: 2024/4/15

**2_WLAN2.4G_802.11b_Bottom of laptop_0 mm_Ch6_ANT 1**

**DUT: UM5606W**

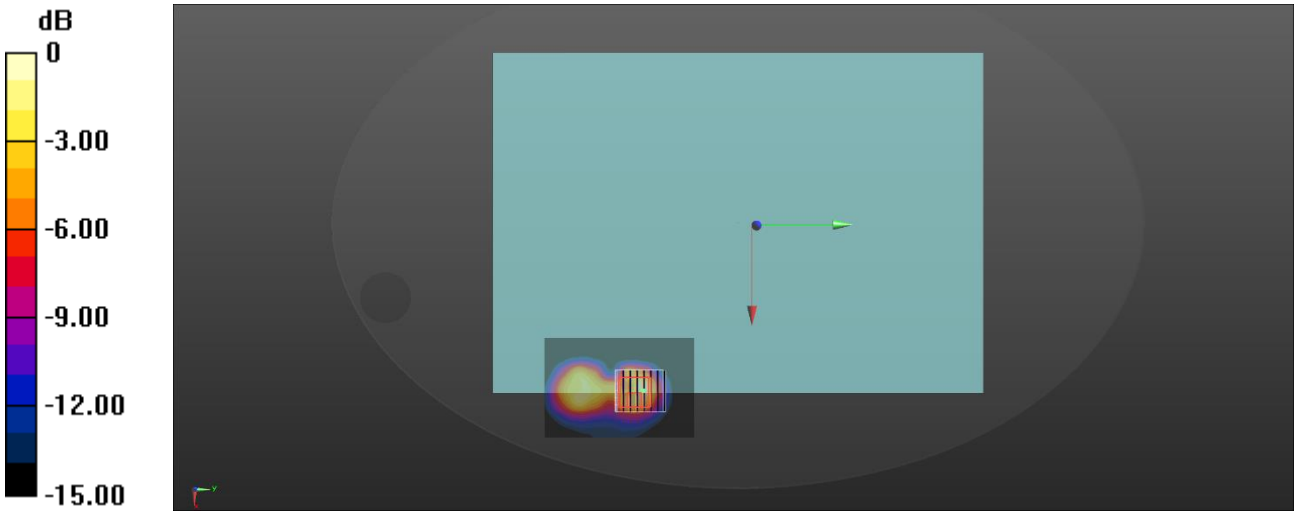
Communication System: UID 0, IEEE 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.064
Medium parameters used: f = 2437 MHz; $\sigma$ = 1.818 S/m; $\varepsilon_r$ = 40.122; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(7.73, 7.11, 7.58) @ 2437 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (61x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.455 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.870 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.609 W/kg
**SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.116 W/kg**
Smallest distance from peaks to all points 3 dB below = 5.1 mm
Ratio of SAR at M2 to SAR at M1 = 42.9%
Maximum value of SAR (measured) = 0.456 W/kg




0 dB = 0.456 W/kg = -3.41 dBW/kg

Date: 2024/4/15

**3_WLAN5.3G_802.11ac VHT160_Bottom of laptop_0 mm_Ch50_ANT 0**

**DUT: UM5606W**

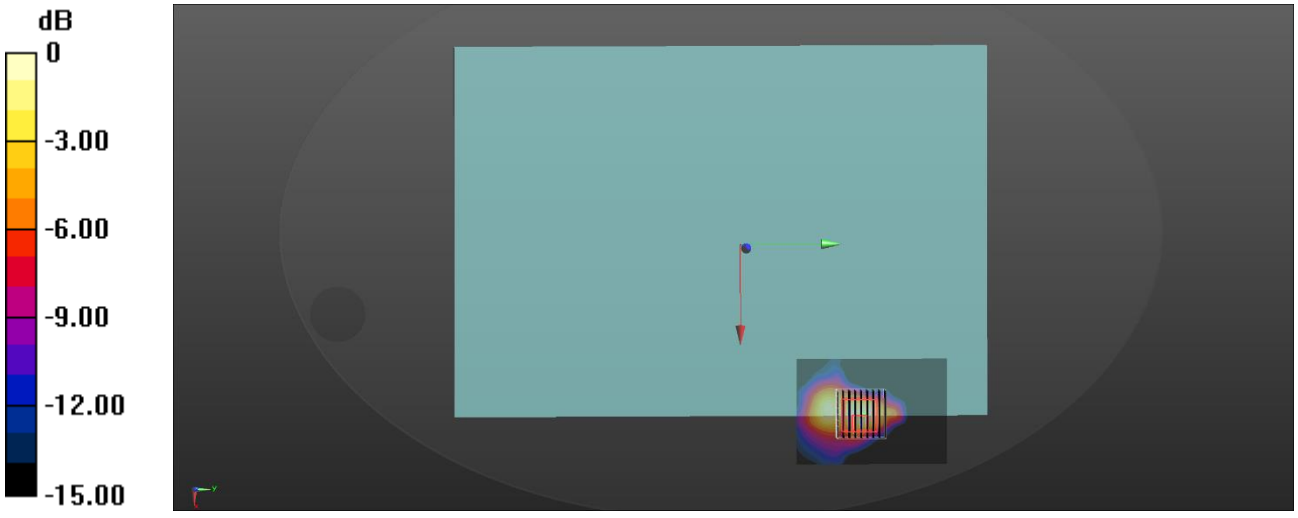
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.118
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.525 S/m; $\varepsilon_r$ = 36.991; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.68, 5.15, 5.5) @ 5250 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.364 W/kg

**Zoom Scan (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.792 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.600 W/kg
**SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.046 W/kg**
Smallest distance from peaks to all points 3 dB below = 4.4 mm
Ratio of SAR at M2 to SAR at M1 = 62.3%
Maximum value of SAR (measured) = 0.345 W/kg




0 dB = 0.345 W/kg = -4.62 dBW/kg

Date: 2024/4/15

**4_WLAN5.3G_802.11ac VHT160_Bottom of laptop_0 mm_Ch50_ANT 1**

**DUT: UM5606W**

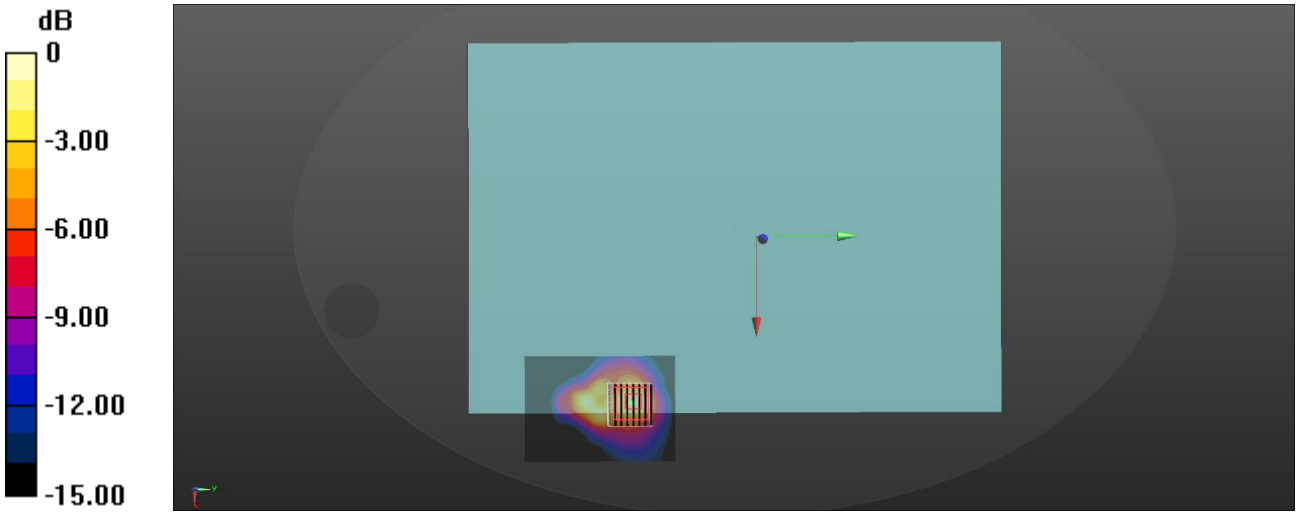
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5250 MHz;Duty Cycle: 1:1.125
Medium parameters used: f = 5250 MHz; $\sigma$ = 4.525 S/m; $\varepsilon_r$ = 36.991; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.68, 5.15, 5.5) @ 5250 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.935 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.82 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.77 W/kg
**SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.154 W/kg**
Smallest distance from peaks to all points 3 dB below = 7.9 mm
Ratio of SAR at M2 to SAR at M1 = 60.9%
Maximum value of SAR (measured) = 0.986 W/kg




0 dB = 0.986 W/kg = -0.06 dBW/kg

Date: 2024/4/15

**5_WLAN5.6G_802.11ac VHT160_Bottom of laptop_0 mm_Ch114_ANT 0**

**DUT: UM5606W**

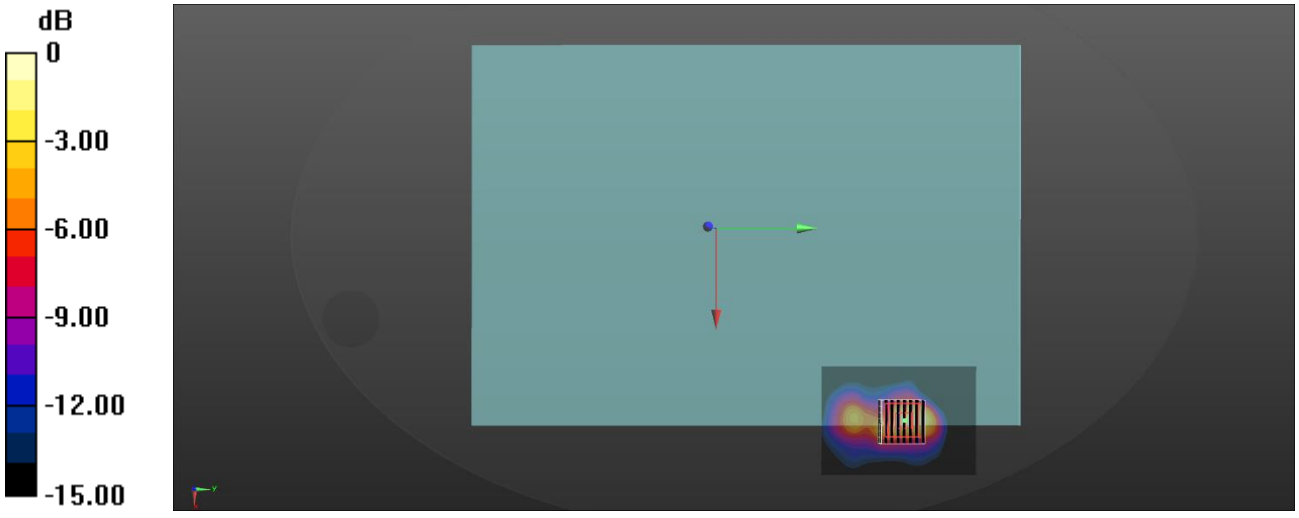
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5570 MHz;Duty Cycle: 1:1.118
Medium parameters used: f = 5570 MHz; $\sigma$ = 4.865 S/m; $\varepsilon_r$ = 36.695; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(4.9, 4.47, 4.74) @ 5570 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.737 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.36 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.39 W/kg
**SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.108 W/kg**
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 63.1%
Maximum value of SAR (measured) = 0.841 W/kg




0 dB = 0.841 W/kg = -0.75 dBW/kg

Date: 2024/4/15

**6_WLAN5.6G_802.11ac VHT160_Bottom of laptop_0 mm_Ch114_ANT 1**

**DUT: UM5606W**

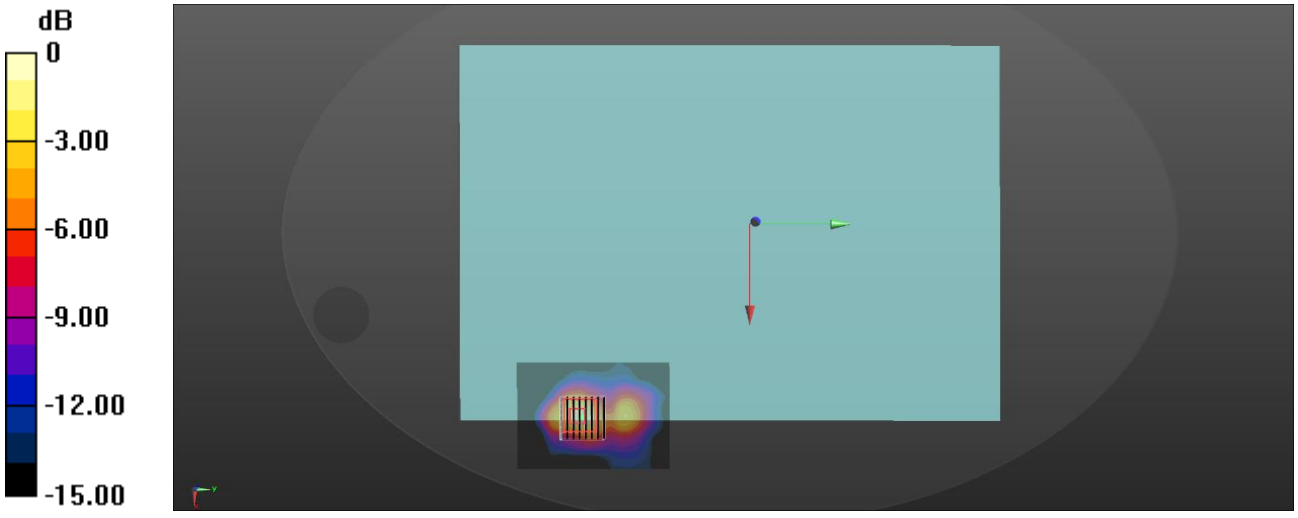
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5570 MHz;Duty Cycle: 1:1.125
Medium parameters used: f = 5570 MHz; $\sigma$ = 4.865 S/m; $\varepsilon_r$ = 36.695; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(4.9, 4.47, 4.74) @ 5570 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.586 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 11.76 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.05 W/kg
**SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.081 W/kg**
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 61.8%
Maximum value of SAR (measured) = 0.614 W/kg




0 dB = 0.614 W/kg = -2.12 dBW/kg

Date: 2024/4/15

**7_WLAN5.8G_802.11ac VHT160_Bottom of laptop_0 mm_Ch163_ANT 0**

**DUT: UM5606W**

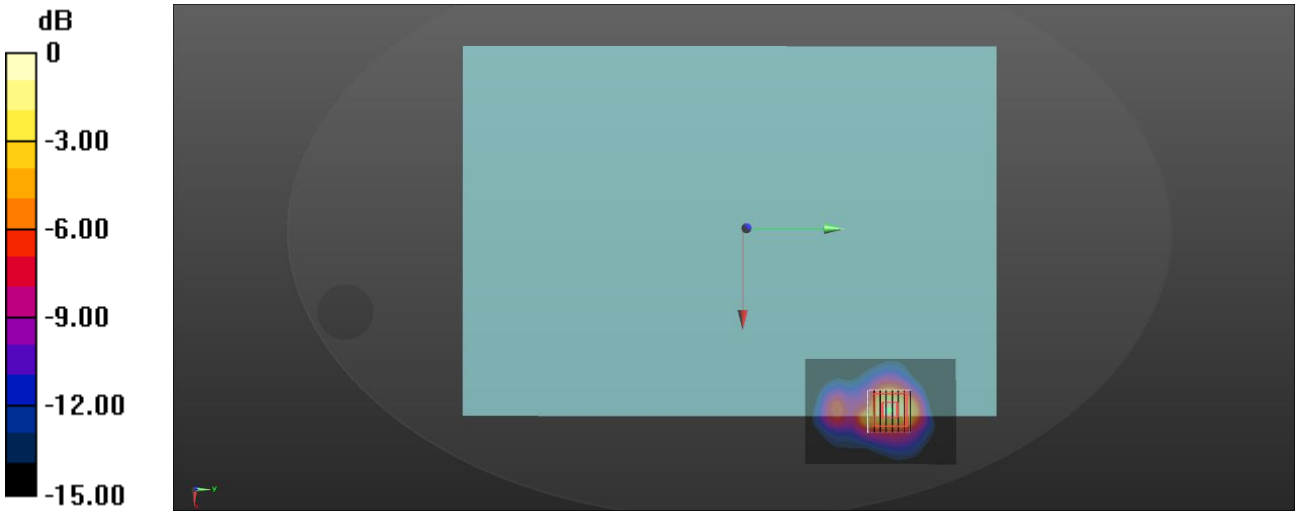
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5815 MHz;Duty Cycle: 1:1.118
Medium parameters used: f = 5815 MHz; $\sigma$ = 5.108 S/m; $\varepsilon_r$ = 36.333; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.03, 4.62, 4.96) @ 5815 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.18 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 17.62 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.38 W/kg
**SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.173 W/kg**
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 60.9%
Maximum value of SAR (measured) = 1.33 W/kg




0 dB = 1.33 W/kg = 1.24 dBW/kg

Date: 2024/4/15

**8_WLAN5.8G_802.11ac VHT160_Bottom of laptop_0 mm_Ch163_ANT 1**

**DUT: UM5606W**

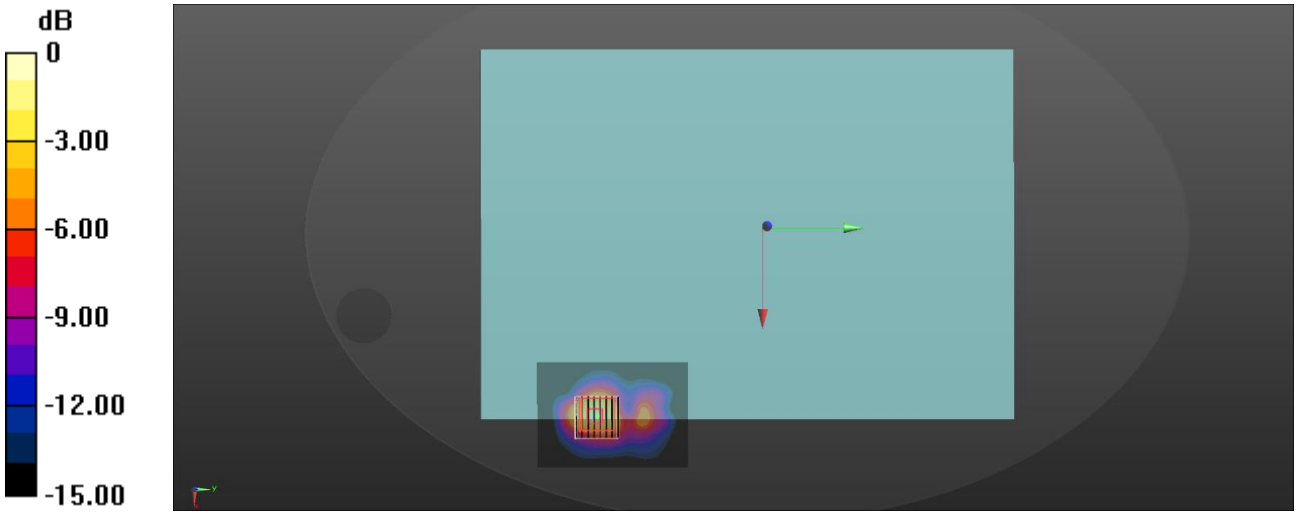
Communication System: UID 0, IEEE 802.11ac(5GHz)VHT160 (0); Frequency: 5815 MHz;Duty Cycle: 1:1.125
Medium parameters used: f = 5815 MHz; $\sigma$ = 5.108 S/m; $\varepsilon_r$ = 36.333; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN3977; ConvF(5.03, 4.62, 4.96) @ 5815 MHz; Calibrated: 2024/3/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn779; Calibrated: 2024/3/14
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Area Scan (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.707 W/kg

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 12.70 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.38 W/kg
**SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.099 W/kg**
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 60.7%
Maximum value of SAR (measured) = 0.789 W/kg




0 dB = 0.789 W/kg = -1.03 dBW/kg

**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**9_U-NII 5_802.11ax HE160_Bottom of laptop_0 mm_Ch79_ANT 0**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-5 | WLAN, 10554 - AAE | 6345.000, 79 | 5.43 | 5.88 | 35.2 |

## Hardware Setup

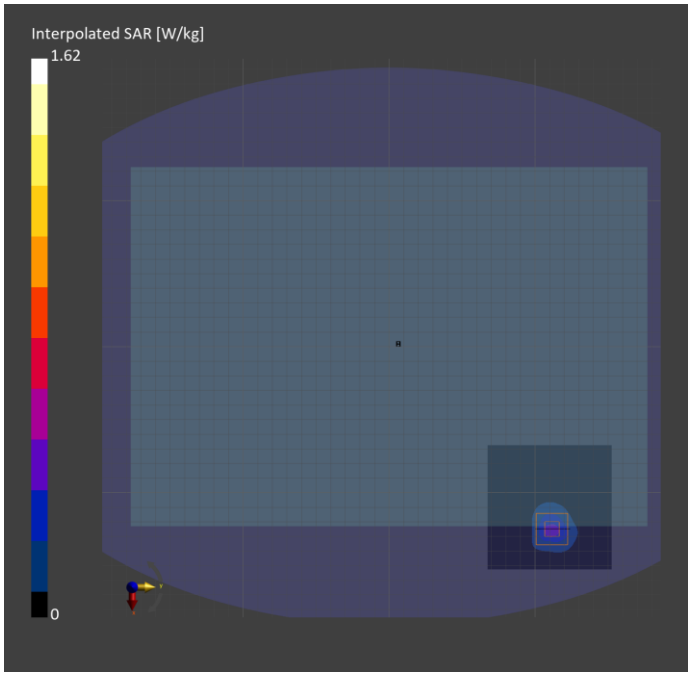
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| **psSAR-*1g* [W/kg]** | 0.357 | **0.368** |
| **psSAR-*10g* [W/kg]** | 0.123 | **0.122** |
| **psAPD (*1.0 cm²*, sq) [W/m²]** | | **3.68** |
| **psAPD (*4.0 cm²*, sq) [W/m²]** | | **2.78** |
| Power Drift [dB] | | 0.03 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 54.1 |
| Dist 3dB Peak [mm] | | 8.7 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**10_U-NII 5_802.11ax HE160_Bottom of laptop_0 mm_Ch79_ANT 1**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-5 | WLAN, 10554 - AAE | 6345.000, 79 | 5.43 | 5.88 | 35.2 |

## Hardware Setup

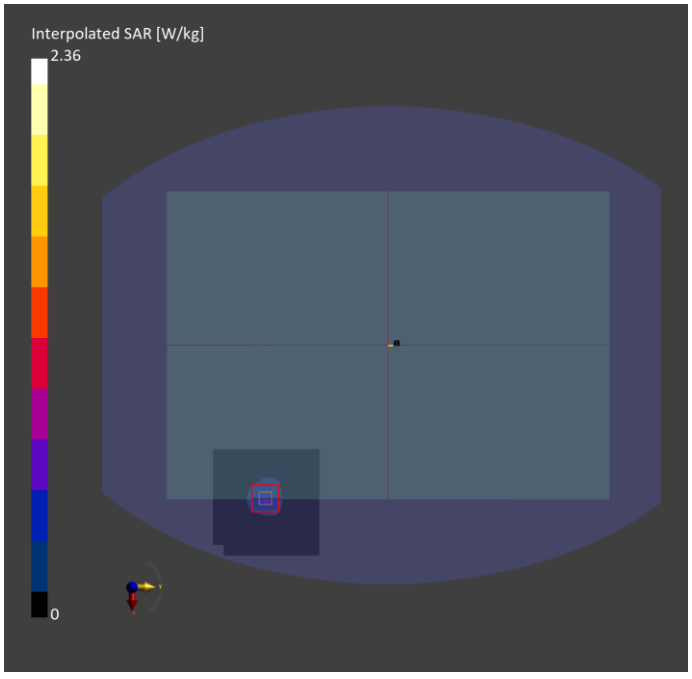
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| **psSAR-*1g* [W/kg]** | 0.461 | **0.509** |
| **psSAR-*10g* [W/kg]** | 0.157 | **0.163** |
| **psAPD (*1.0 cm²*, sq) [W/m²]** | | **5.09** |
| **psAPD (*4.0 cm²*, sq) [W/m²]** | | **3.73** |
| Power Drift [dB] | | -0.11 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 53.2 |
| Dist 3dB Peak [mm] | | 7.5 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**11_U-NII 6_802.11ax HE160_Bottom of laptop_0 mm_Ch111_ANT 0**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-6 | WLAN, 10554 - AAE | 6505.000, 111 | 5.43 | 6.07 | 35.1 |

## Hardware Setup

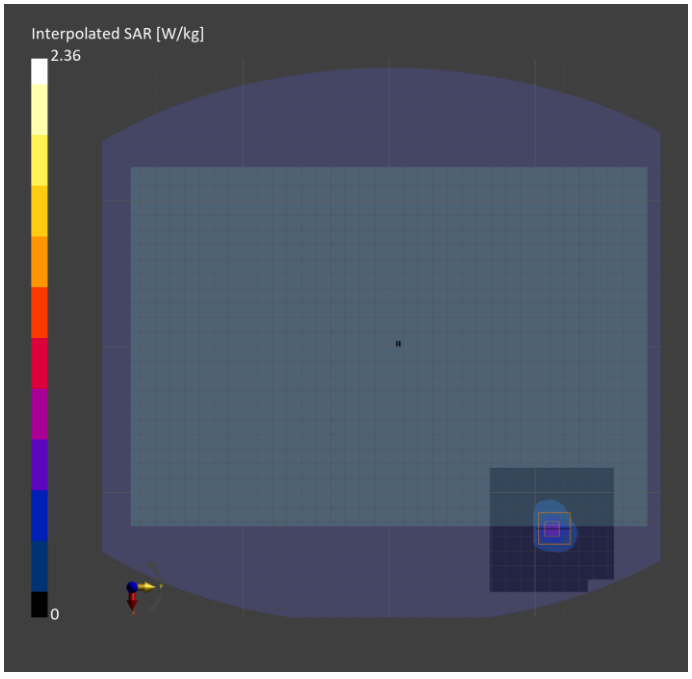
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| **psSAR-*1g* [W/kg]** | 0.538 | **0.509** |
| **psSAR-*10g* [W/kg]** | 0.182 | **0.166** |
| **psAPD (*1.0 cm²*, sq) [W/m²]** | | **5.09** |
| **psAPD (*4.0 cm²*, sq) [W/m²]** | | **3.79** |
| Power Drift [dB] | | 0.07 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 50.8 |
| Dist 3dB Peak [mm] | | 8.2 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**12_U-NII 6_802.11ax HE160_Bottom of laptop_0 mm_Ch111_ANT 1**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-6 | WLAN, 10554 - AAE | 6505.000, 111 | 5.43 | 6.07 | 35.1 |

## Hardware Setup

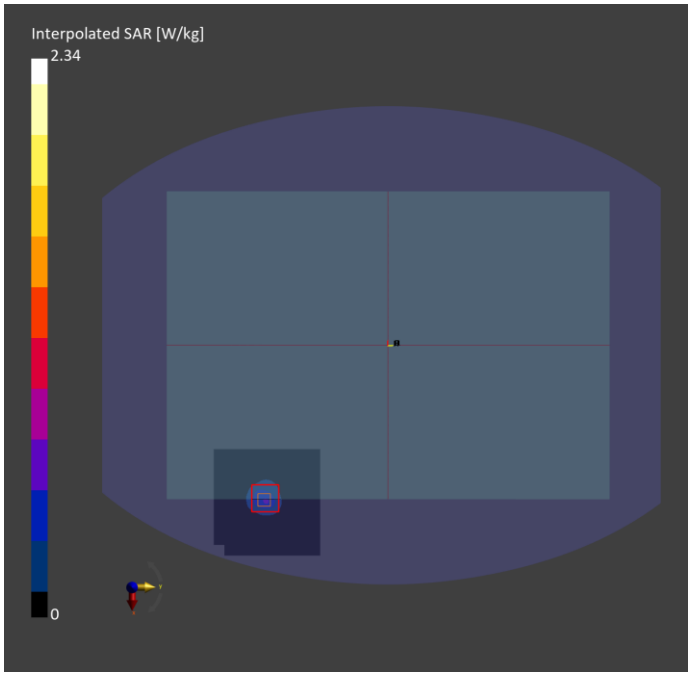
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| **psSAR-*1g* [W/kg]** | 0.450 | **0.491** |
| **psSAR-*10g* [W/kg]** | 0.152 | **0.154** |
| **psAPD (*1.0 cm²*, sq) [W/m²]** | | **4.91** |
| **psAPD (*4.0 cm²*, sq) [W/m²]** | | **3.54** |
| Power Drift [dB] | | 0.02 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 51.8 |
| Dist 3dB Peak [mm] | | 7.5 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**13_U-NII 7_802.11ax HE160_Bottom of laptop_0 mm_Ch175_ANT 0**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-7 | WLAN, 10554 - AAE | 6825.000, 175 | 5.43 | 6.43 | 34.5 |

## Hardware Setup

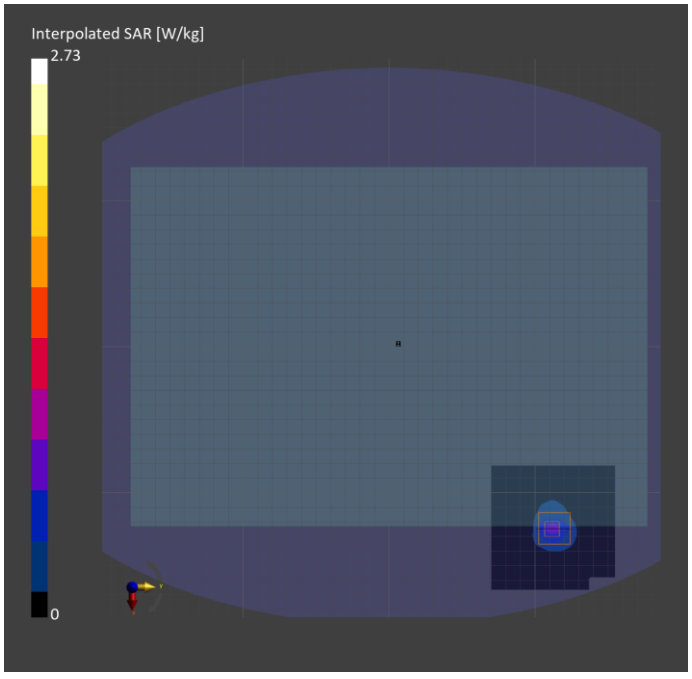
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| **psSAR-*1g* [W/kg]** | 0.615 | **0.559** |
| **psSAR-*10g* [W/kg]** | 0.205 | **0.182** |
| **psAPD (*1.0 cm²*, sq) [W/m²]** | | **5.59** |
| **psAPD (*4.0 cm²*, sq) [W/m²]** | | **4.16** |
| Power Drift [dB] | | 0.06 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 49.2 |
| Dist 3dB Peak [mm] | | 8.2 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**14_U-NII 7_802.11ax HE160_Bottom of laptop_0 mm_Ch175_ANT 1**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-7 | WLAN, 10554 - AAE | 6825.000, 175 | 5.43 | 6.43 | 34.5 |

## Hardware Setup

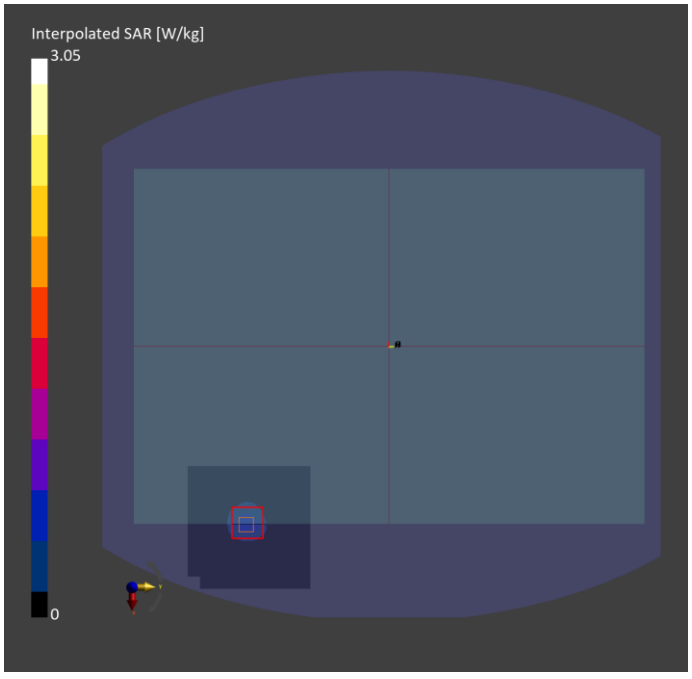
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR-*1g* [W/kg] | 0.571 | **0.600** |
| psSAR-*10g* [W/kg] | 0.192 | **0.187** |
| psAPD (*1.0 cm²*, sq) [W/m²] | | **6.00** |
| psAPD (*4.0 cm²*, sq) [W/m²] | | **4.28** |
| Power Drift [dB] | | 0.02 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 49.9 |
| Dist 3dB Peak [mm] | | 7.6 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**15_U-NII 8_802.11ax HE160_Bottom of laptop_0 mm_Ch207_ANT 0**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-8 | WLAN, 10554 - AAE | 6985.000, 207 | 5.43 | 6.68 | 34.0 |

## Hardware Setup

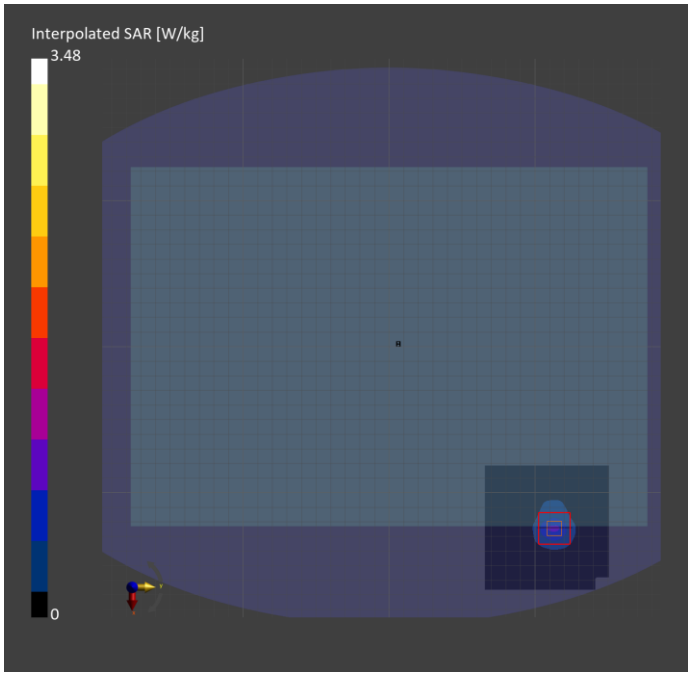
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| **psSAR-*1g* [W/kg]** | 0.742 | **0.661** |
| **psSAR-*10g* [W/kg]** | 0.249 | **0.225** |
| **psAPD (*1.0 cm²*, sq) [W/m²]** | | **6.91** |
| **psAPD (*4.0 cm²*, sq) [W/m²]** | | **5.14** |
| Power Drift [dB] | | 0.08 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 48.4 |
| Dist 3dB Peak [mm] | | 8.2 |



**Test Date : 2024-04-16 | Ambient Temp : 22.8 °C | Tissue Temp : 22.0 °C**

## Test Mode

**16_U-NII 8_802.11ax HE160_Bottom of laptop_0 mm_Ch207_ANT 1**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|
| Flat | U-NII-8 | WLAN, 10554 - AAE | 6985.000, 207 | 5.43 | 6.68 | 34.0 |

## Hardware Setup

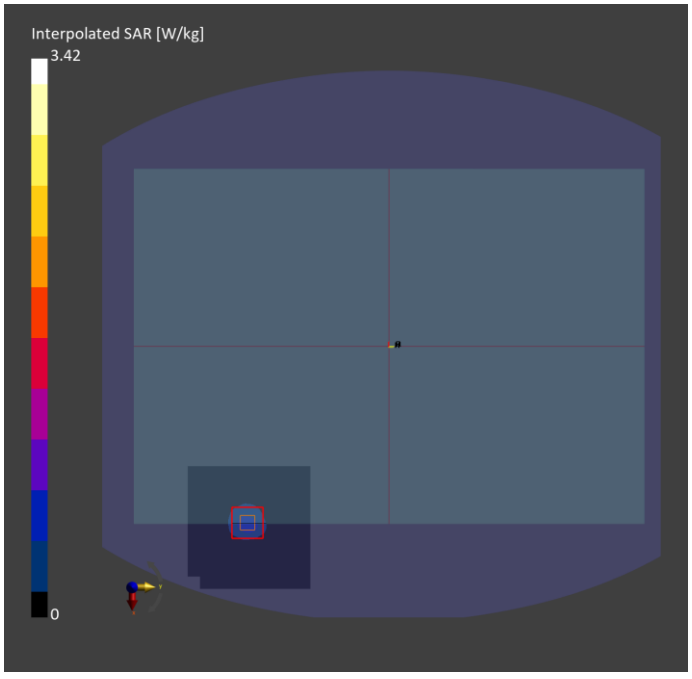
| Phantom | Tissue Simulating Liquid | Probe \| Calibration Date | DAE \| Calibration Date |
|---|---|---|---|
| ELI V5.0 (20deg probe tilt) - 1175 | HBBL-600-10000 | EX3DV4 - SN3977 / 2024-03-21 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| psSAR-*1g* [W/kg] | 0.607 | **0.621** |
| psSAR-*10g* [W/kg] | 0.204 | **0.201** |
| psAPD (*1.0 cm²*, sq) [W/m²] | | **6.51** |
| psAPD (*4.0 cm²*, sq) [W/m²] | | **4.62** |
| Power Drift [dB] | | 0.07 |
| TSL Correction | Positive only | Positive only |
| M2 / M1 [%] | | 48.5 |
| Dist 3dB Peak [mm] | | 6.9 |



**Test Date : 2024-04-17 | Ambient Temp : 22.9 °C**

## Test Mode

**18_U-NII 8_802.11ax HE160_Bottom of laptop_2 mm_Ch207_ANT 0**

## Device Under Test Properties

| Manufacturer or Brand | Model No. or Code Name | Sample No. or IMEI | DUT Type |
|---|---|---|---|
| ASUS | UM5606W | S3NTKD00001911B | Notebooks |

## Exposure Conditions

| Phantom Section | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|---|---|---|---|---|
| 5G | U-NII-8 | WLAN, 10755 - AAC | 6985.0, 207 | 1.0 |

## Hardware Setup

| Phantom | Medium | Probe / Calibration Date | DAE / Calibration Date |
|---|---|---|---|
| mmWave - 5G Phantom | Air | EUmmWV4 - SN9639_F1-55GHz / 2023-08-18 | DAE4 Sn779 / 2024-03-14 |

## Scan Setup

| | 5G Scan |
|---|---|
| Grid Extents [mm] | 86.0 x 86.0 |
| Grid Steps [mm] | 0.0582 x 0.0582 |
| Sensor Surface [mm] | 2.0 |

## Measurement Results

| | 5G Scan |
|---|---|
| Avg. Area [cm²] | 4.00 |
| psPD n+ [W/m²] | **3.64** |
| psPD tot+ [W/m²] | **6.41** |
| psPD mod+ [W/m²] | 12.8 |
| E max [V/m] | 87.8 |
| Power Drift [dB] | 0.03 |