



Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.5 ± 6 %	4.67 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.02 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.9 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.89 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.3 ± 6 %	4.97 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.0 ± 6 %	5.11 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.4 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	47.9 Ω - 9.2 j Ω
Return Loss	- 20.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	48.7 Ω - 4.6 j Ω
Return Loss	- 26.3 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	47.5 Ω - 5.2 j Ω
Return Loss	- 24.6 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	52.1 Ω - 5.3 j Ω
Return Loss	- 25.0 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	51.8 Ω - 4.2 j Ω
Return Loss	- 27.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.185 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 06.06.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1291

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.53$ S/m; $\epsilon_r = 35.5$; $\rho = 1000$ kg/m³,

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.67$ S/m; $\epsilon_r = 35.5$; $\rho = 1000$ kg/m³,

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.89$ S/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m³,

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.97$ S/m; $\epsilon_r = 35.3$; $\rho = 1000$ kg/m³,

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.11$ S/m; $\epsilon_r = 35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.8, 5.8, 5.8) @ 5200 MHz, ConvF(5.49, 5.49, 5.49) @ 5300 MHz, ConvF(5.25, 5.25, 5.25) @ 5500 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.94 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 26.6 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.2 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 70.7%

Maximum value of SAR (measured) = 17.2 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.72 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.3 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

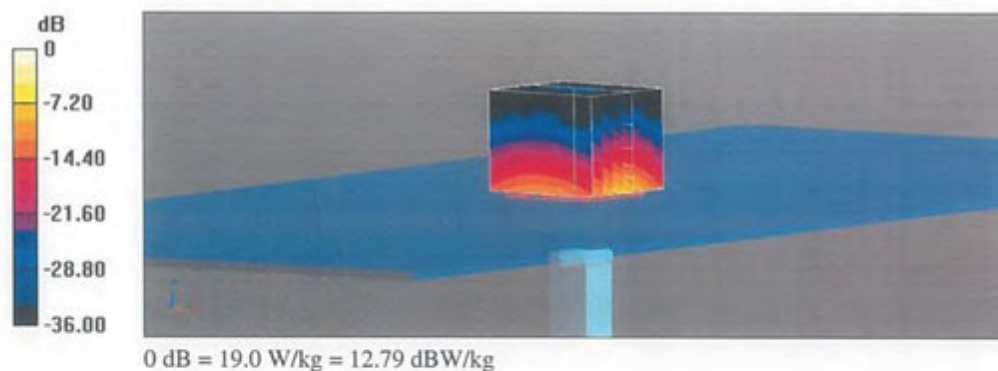
Ratio of SAR at M2 to SAR at M1 = 70.8%

Maximum value of SAR (measured) = 18.1 W/kg

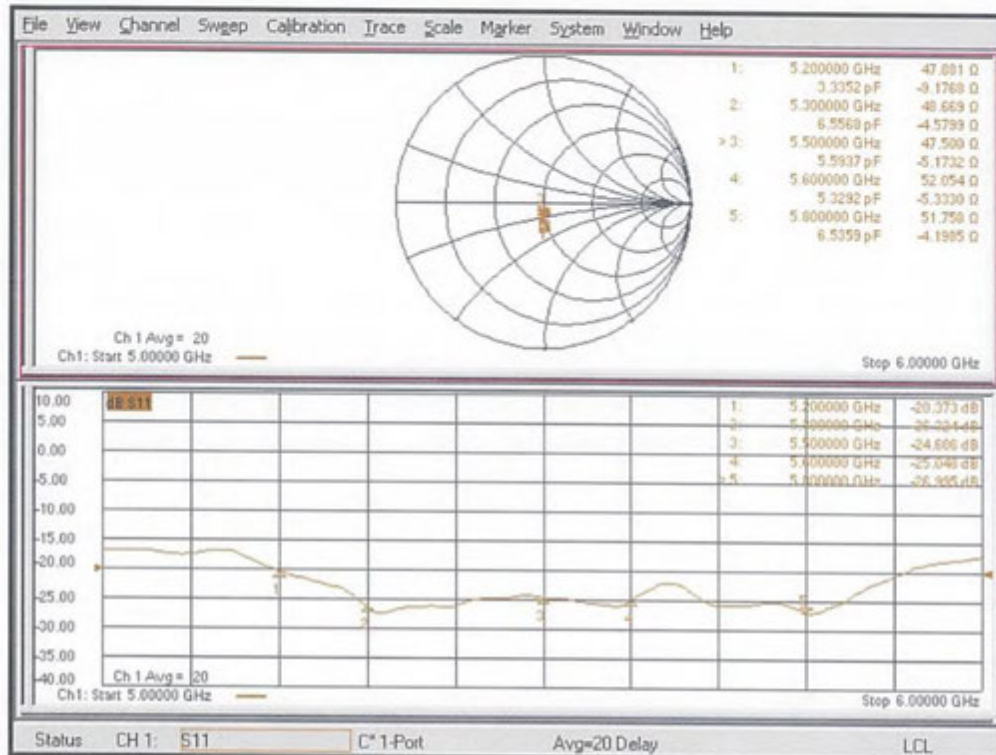
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 74.08 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 30.7 W/kg
SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.33 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 68.1%
Maximum value of SAR (measured) = 18.9 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 75.16 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 29.8 W/kg
SAR(1 g) = 8.2 W/kg; SAR(10 g) = 2.34 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 69%
Maximum value of SAR (measured) = 19.0 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.36 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 30.8 W/kg
SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.24 W/kg
Smallest distance from peaks to all points 3 dB below = 7.5 mm
Ratio of SAR at M2 to SAR at M1 = 67%
Maximum value of SAR (measured) = 18.8 W/kg



Impedance Measurement Plot for Head TSL





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Accreditation No.: SCS 0108

Client **TÜV SÜD**
Fareham, United Kingdom

Certificate No. **D6.5GHzV2-1071_Jul23**

CALIBRATION CERTIFICATE

Object **D6.5GHzV2 - SN:1071**

Calibration procedure(s) **QA CAL-22.v7**
Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date: **July 06, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power sensor R&S NRP33T	SN: 100967	03-Apr-23 (No. 217-03806)	Apr-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Mismatch combination	SN: 84224 / 360D	03-Apr-23 (No. 217-03812)	Apr-24
Reference Probe EX3DV4	SN: 7405	12-Jun-23 (No. EX3-7405_Jun23)	Jun-24
DAE4	SN: 908	03-Jul-23 (No. DAE4-908_Jul23)	Jul-24
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator Anapico APSIN20G	SN: 827	18-Dec-18 (in house check Dec-21)	In house check: Dec-23
Power sensor NRP-Z23	SN: 100169	10-Jan-19 (in house check Nov-22)	In house check: Nov-23
Power sensor NRP-18T	SN: 100950	28-Sep-22 (in house check Nov-22)	In house check: Nov-23
Network Analyzer Keysight E5063A	SN:MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25

Calibrated by: **Jeton Kastrati** Function **Laboratory Technician**

Approved by: **Sven Kühn** Technical Manager

Signature



Issued: July 10, 2023

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Certificate No: D6.5GHzV2-1071_Jul23

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Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range Of 4 MHz To 10 GHz)", October 2020.

Additional Documentation:

- b) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.
- *The absorbed power density (APD):* The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASYG	V' 6.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	5 mm	with Spacer
Zoom Scan Resolution	ox, dy = 3.4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	6500 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	34.5	6.07 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	33.6 $\pm$ 6 %	5.88 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL		Condition
SAR measured	100 mW input power	29.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	292 W/kg $\pm$ 24.7 % (k=2)
SAR averaged over 8 cm ³ (8 g) of Head TSL		Condition
SAR measured	100 mW input power	6.56 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	66.1 W/kg $\pm$ 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL		Condition
SAR measured	100 mW input power	5.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	54.2 W/kg $\pm$ 24.4 % (k=2)

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.0 Ω - 1.7 j Ω
Return Loss	-31.5 dB

APD (Absorbed Power Density)

APD averaged over 1 cm ²	Condition	
APD measured	100 mW input power	292 W/m ²
APD measured	normalized to 1W	2920 W/m ² $\pm$ 29.2 % (k=2)
APD averaged over 4 cm ²	Condition	
APD measured	100 mW input power	133 W/m ²
APD measured	normalized to 1W	1330 W/m ² $\pm$ 28.9 % (k=2)

*The reported APD values have been derived using the psSAR1g and psSAR5g.

General Antenna Parameters and Design

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1071, UID 0 -, Channel 6500 (6500.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D6.5GHz	10.0 x 10.0 x 10.0	SN: 1029	-

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Cond. [S/m]	TSL Permittivity
Flat, HSL	5.00	Band	CW,	6500	5.50	5.88	33.5

Hardware Setup

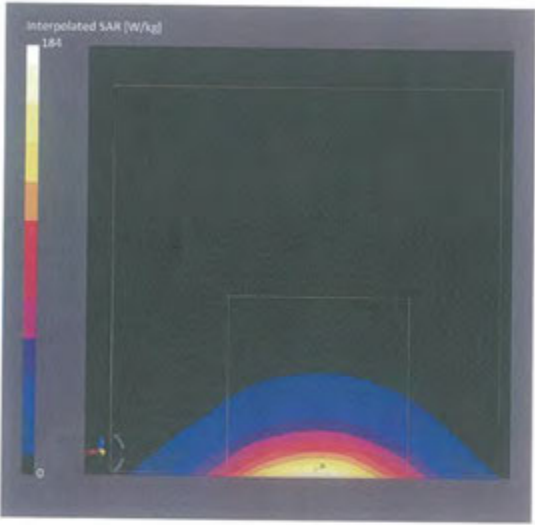
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MFP V8.0 Center - 1182	HBBL600-10000V6	EX3DV4 - SN7405, 2023-06-12	DAE4 Sn908, 2023-07-03

Scan Setup

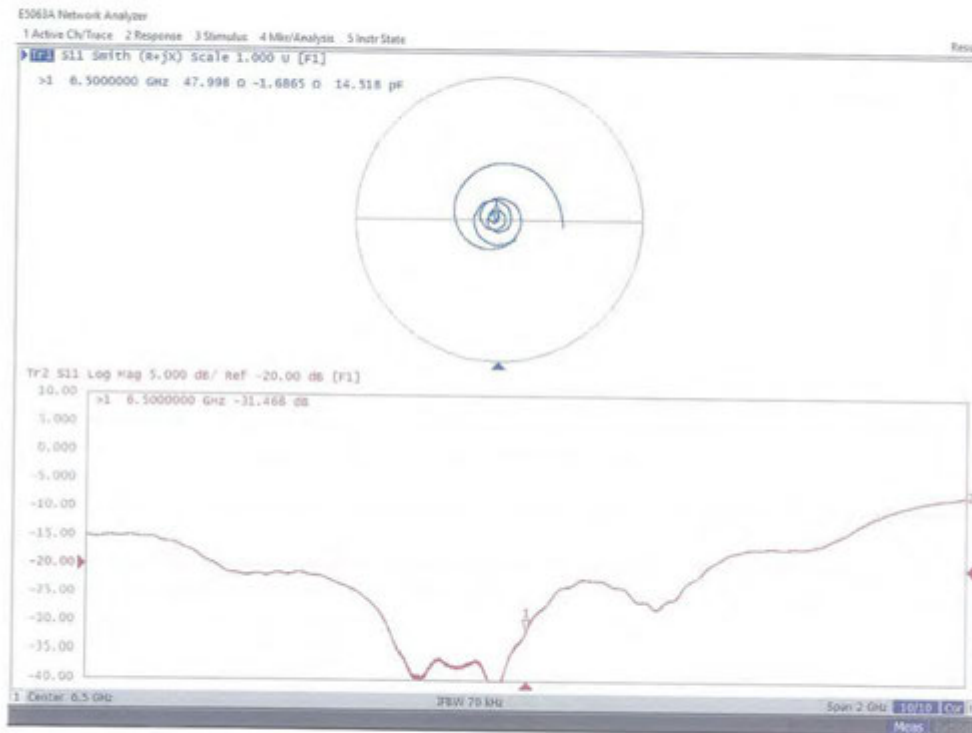
	Zoom Scan
Grid Extents [mm]	22.0 x 22.0 x 22.0
Grid Steps [mm]	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4
Graded Grid	Yes
Grading Ratio	1.4
MAIA	N/A
Surface Detection	VMS + 6p
Scan Method	Measured

Measurement Results

	Zoom Scan
Date	2023-07-20, 13:28
psSAR1g [W/Kg]	29.4
psSAR8g [W/Kg]	6.66
psSAR10g [W/Kg]	5.46
Power Drift [dB]	0.01
Power Scaling	Disabled
Scaling Factor [dB]	
TSL Correction	No correction
M2/M1 [%]	51.3
Dist 3dB Peak [mm]	4.8



Impedance Measurement Plot for Head TSL



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Accreditation No.: **SCS 0108**

Client **TÜV SÜD**
Fareham, United Kingdom

Certificate No. **5G-Veri10-1053_Oct23**

CALIBRATION CERTIFICATE

Object **5G Verification Source 10 GHz - SN: 1053**

Calibration procedure(s) **QA CAL-45.v4**
Calibration procedure for sources in air above 6 GHz

Calibration date: **October 27, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Reference Probe EUMmWV3 DAE4ip	SN: 9374	22-May-23 (No. EUMm-9374_May23)	May-24
	SN: 1602	05-Jul-23 (No. DAE4ip-1602_Jul23)	Jul-24
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMF100A	SN: 100184	19-May-22 (in house check Nov-22)	In house check: Nov-23
	SN: 101258	31-May-22 (in house check Nov-22)	In house check: Nov-23
Power sensor R&S NRP18S-10	SN: MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25
Network Analyzer Keysight E5063A			

Calibrated by:	Name Joanna Llesha	Function Laboratory Technician	Signature 
Approved by:	Name Sven Köhn	Function Technical Manager	Signature 

Issued: October 27, 2023

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Glossary

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Accreditation No.: **SCS 0108**

CW Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45, Calibration procedure for sources in air above 6 GHz.
- IEC/IEEE 63195-1, "Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)", May 2022

Methods Applied and Interpretation of Parameters

- *Coordinate System:* z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- *Measurement Conditions:* (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- *Horn Positioning:* The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- *E- field distribution:* E field is measured in two x-y-plane (10mm, 10mm + $\lambda/4$) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- *Field polarization:* Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

- Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY8 Module mmWave	V3.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
Number of measured planes	2 (10mm, 10mm + $\lambda/4$)	
Frequency	10 GHz $\pm$ 10 MHz	

Calibration Parameters, 10 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg ($psPDn+$, $psPDtot+$, $psPDmod+$) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	155	1.27 dB	62.1	57.8	1.28 dB

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density $psPDn+$, $psPDtot+$, $psPDmod+$ (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	155	1.27 dB	61.9, 62.0, 62.3	57.5, 57.8, 58.1	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg ($psPDn+$, $psPDtot+$, $psPDmod+$) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	155	1.27 dB	62.0	57.7	1.28 dB

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density $psPDn+$, $psPDtot+$, $psPDmod+$ (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	155	1.27 dB	61.8, 62.0, 62.3	57.4, 57.7, 58.0	1.28 dB

Max Power Density

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Max Power Density S_n , S_{tot} , $ S_{tot} $ (W/m ²)	Uncertainty (k = 2)
10 mm	93.3	155	1.27 dB	63.5, 63.6, 63.6	1.28 dB

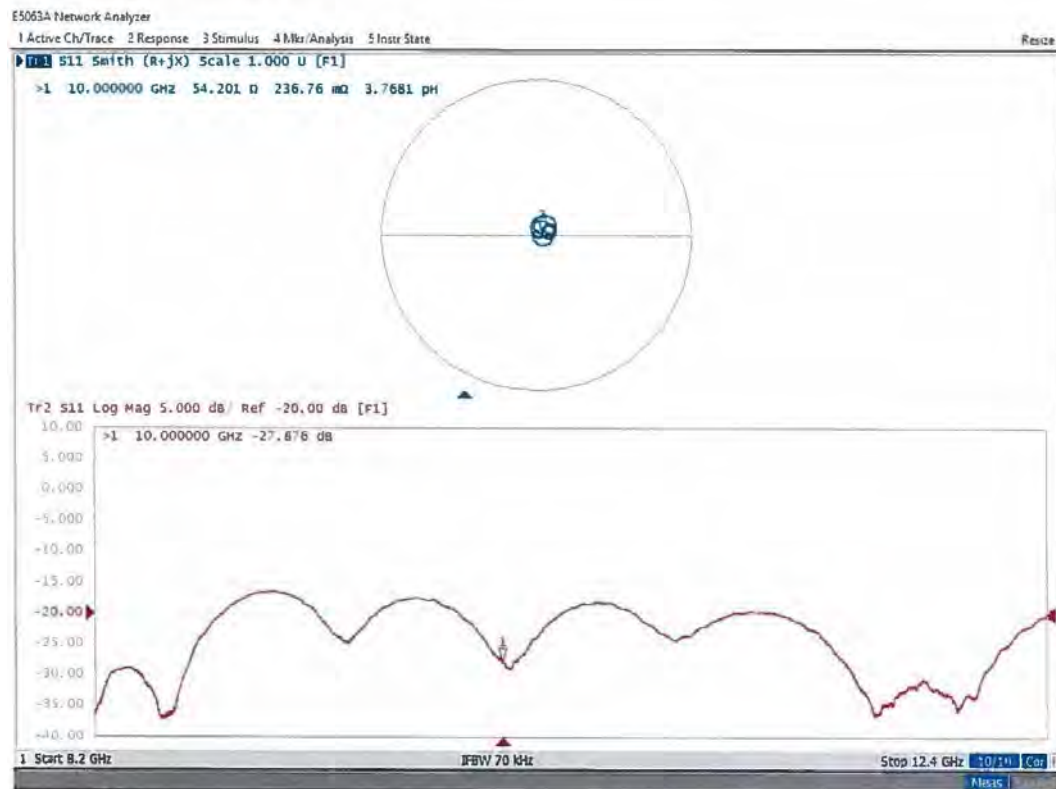
¹ Assessed ohmic and mismatch loss plus numerical offset: 0.30 dB

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Impedance, transformed to feed point	54.2 Ω + 0.24 j Ω
Return Loss	- 27.9 dB

Impedance Measurement Plot





DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1053	-

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-05-22	DAE4ip Sn1602, 2023-07-05

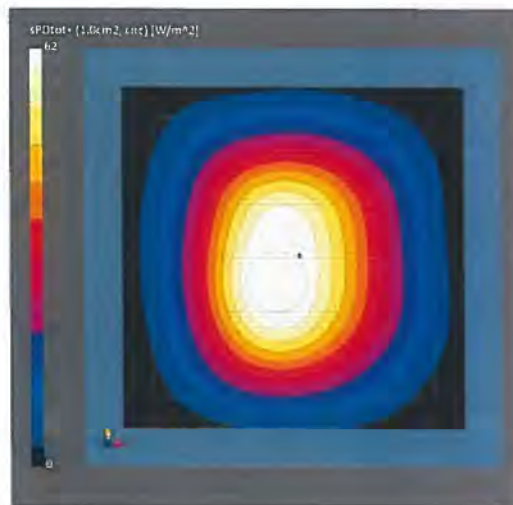
Scan Setup

Sensor Surface [mm]
MAIA

5G Scan
10.0
MAIA not used

Measurement Results

Date	5G Scan
2023-10-27, 09:25	2023-10-27, 09:25
Avg. Area [cm²]	1.00
Avg. Type	Circular Averaging
psPDn+ [W/m²]	61.9
psPDtot+ [W/m²]	62.0
psPDmod+ [W/m²]	62.3
Max(Sn) [W/m²]	63.5
Max(Stot) [W/m²]	63.6
Max(Stot) [W/m²]	63.6
E _{max} [V/m]	155
Power Drift [dB]	-0.02





DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1053	-

Exposure Conditions

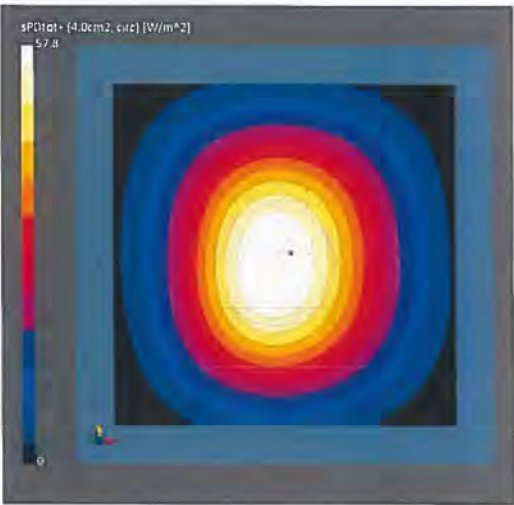
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-05-22	DAE4ip Sn1602, 2023-07-05

Scan Setup

Sensor Surface [mm]	5G Scan	Date	5G Scan
MAIA	10.0	2023-10-27, 09:25	2023-10-27, 09:25
	MAIA not used	Avg. Area [cm²]	4.00
		Avg. Type	Circular Averaging
		psPDn+ [W/m²]	57.5
		psPDtot+ [W/m²]	57.8
		psPDmod+ [W/m²]	58.1
		Max(Sn) [W/m²]	63.5
		Max(Stot) [W/m²]	63.6
		Max(Stot) [W/m²]	63.6
		E _{max} [V/m]	155
		Power Drift [dB]	-0.02





DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1053	-

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-05-22	DAE4ip Sn1602, 2023-07-05

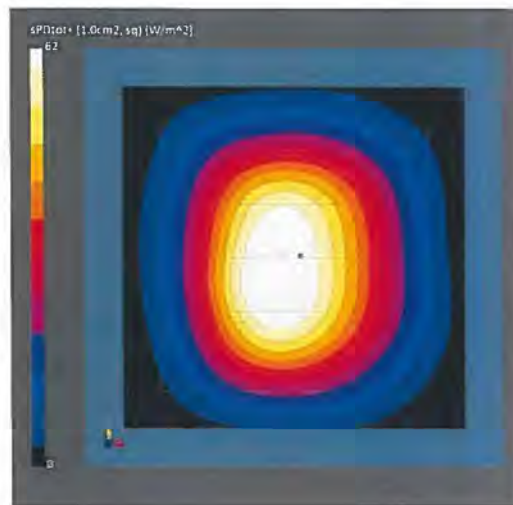
Scan Setup

Sensor Surface [mm]
MAIA

5G Scan
10.0
MAIA not used

Measurement Results

	5G Scan
Date	2023-10-27, 09:25
Avg. Area [cm²]	1.00
Avg. Type	Square Averaging
psPDn+ [W/m²]	61.8
psPDtot+ [W/m²]	62.0
psPDmod+ [W/m²]	62.3
Max(Sn) [W/m²]	63.5
Max(Stot) [W/m²]	63.6
Max(Stot) [W/m²]	63.6
E _{max} [V/m]	155
Power Drift [dB]	-0.02





DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1053	-

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-05-22	DAE4ip Sn1602, 2023-07-05

Scan Setup

Sensor Surface [mm]
MAIA

5G Scan
10.0
MAIA not used

Measurement Results

Date	5G Scan
2023-10-27, 09:25	2023-10-27, 09:25
Avg. Area [cm²]	4.00
Avg. Type	Square Averaging
psPDn+ [W/m²]	57.4
psPDtot+ [W/m²]	57.7
psPDmod+ [W/m²]	58.0
Max(Sn) [W/m²]	63.5
Max(Stot) [W/m²]	63.6
Max(Stot) [W/m²]	63.6
E _{max} [V/m]	155
Power Drift [dB]	-0.02





ANNEX C

TEST RESULTS



Measurement Report for A3113, BACK, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 0 (2402.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2402.0, 0	7.78	1.83	40.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 20.18 deg.C 2023-Oct-16 SYS3 B3.prn, 2023-Oct-16	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 11:02	2023-10-19, 11:14
psSAR1g [W/Kg]	0.210	0.223
psSAR10g [W/Kg]	0.090	0.089
Power Drift [dB]	-0.01	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.7
Dist 3dB Peak [mm]		7.0

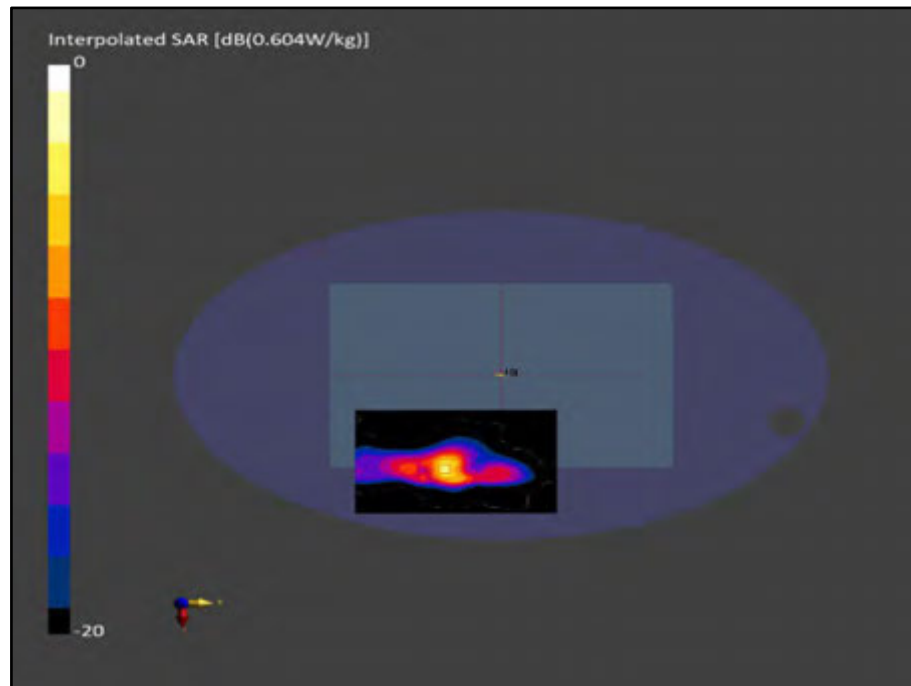


Figure C.1: SAR Testing Results for the A3113 at 2402 MHz Core 0



Measurement Report for A3113, BACK, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 78 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.78	1.89	40.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 20.18 deg.C 2023-Oct-16 SYS3 B3.prn, 2023-Oct-16	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 16:26	2023-10-19, 16:37
psSAR1g [W/Kg]	0.252	0.277
psSAR10g [W/Kg]	0.115	0.111
Power Drift [dB]	-0.06	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.9
Dist 3dB Peak [mm]		7.0

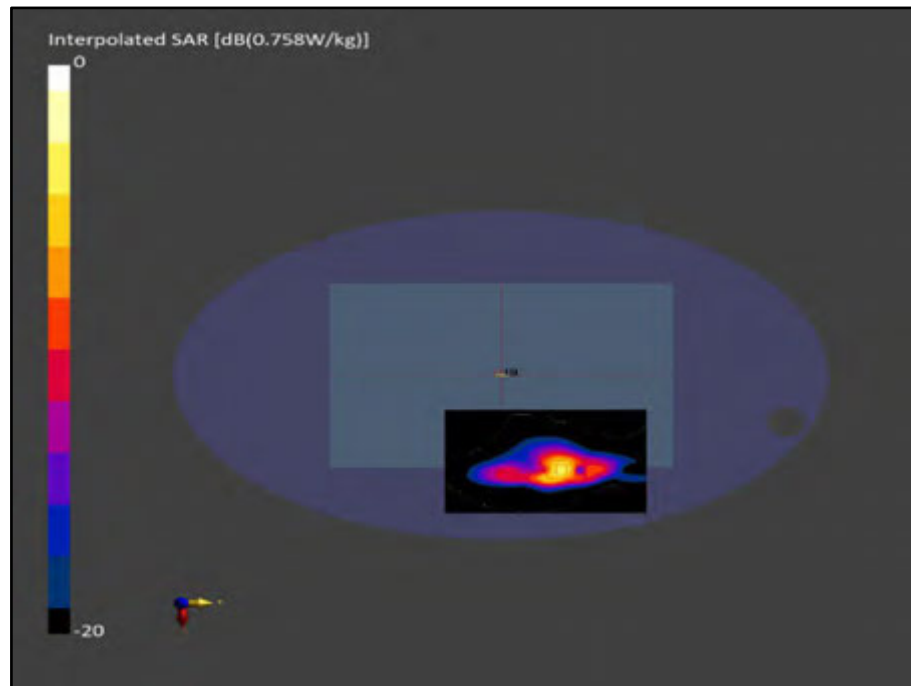


Figure C.2: SAR Testing Results for the A3113 at 2480.0 MHz Core 1



Measurement Report for A3113, BACK, D5GHz, CW, Channel 15 (5150.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	D5GHz	CW, 0--	5150.0, 15	5.53	4.52	34.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 10:52	2023-10-19, 11:01
psSAR1g [W/Kg]	0.143	0.157
psSAR10g [W/Kg]	0.057	0.058
Power Drift [dB]	0.15	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		61.1
Dist 3dB Peak [mm]		10.4

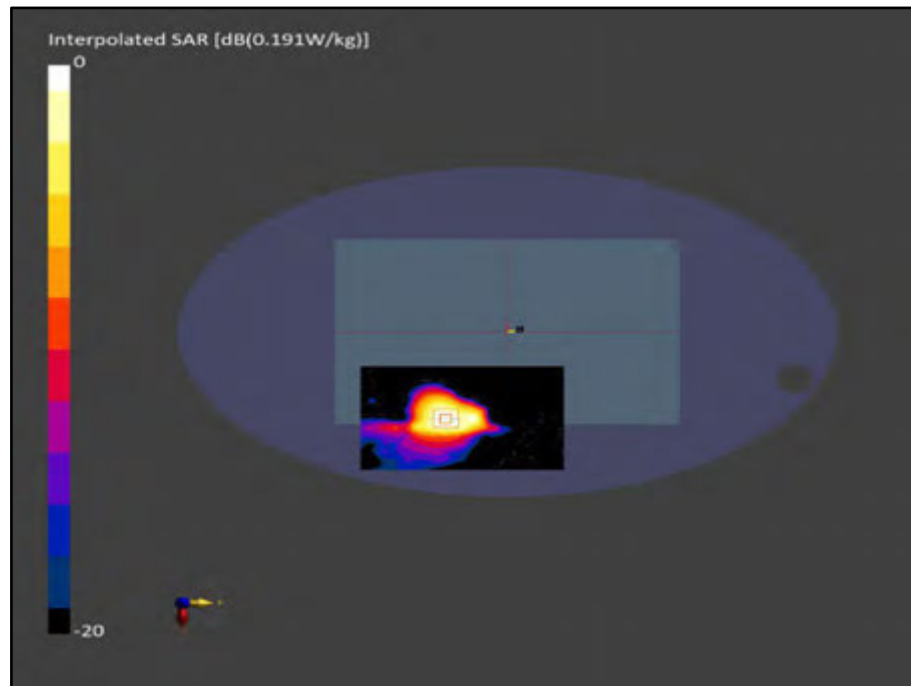


Figure C.3: SAR Testing Results for the A3113 at 5150 MHz Core 0



Measurement Report for A3113, BACK, Custom Band, CW, Channel 5150000 (5150.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	5150.0, 5150000	5.53	4.52	34.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	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	2023-10-19, 01:57	2023-10-19, 02:05
psSAR1g [W/Kg]	0.240	0.247
psSAR10g [W/Kg]	0.089	0.090
Power Drift [dB]	-0.03	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.8
Dist 3dB Peak [mm]		6.6

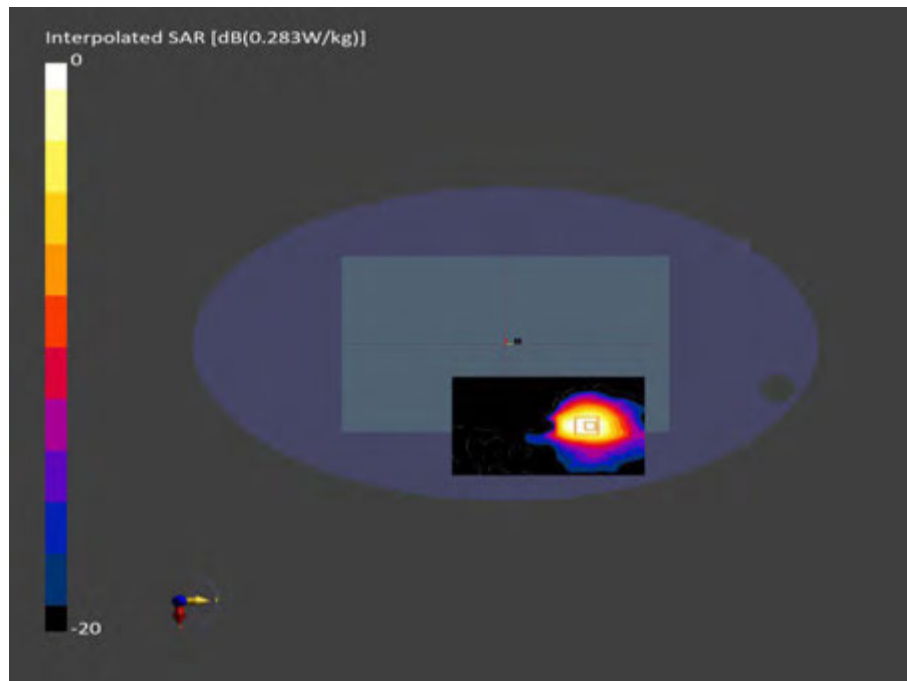


Figure C.4: SAR Testing Results for the A3113 at 5150 MHz Core 1



Measurement Report for A3113, BACK, D5GHz, CW, Channel 25 (5250.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	D5GHz	CW, 0--	5250.0, 25	5.53	4.63	34.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	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	2023-10-19, 12:53	2023-10-19, 13:03
psSAR1g [W/Kg]	0.109	0.119
psSAR10g [W/Kg]	0.042	0.041
Power Drift [dB]	0.05	-0.19
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		8.0

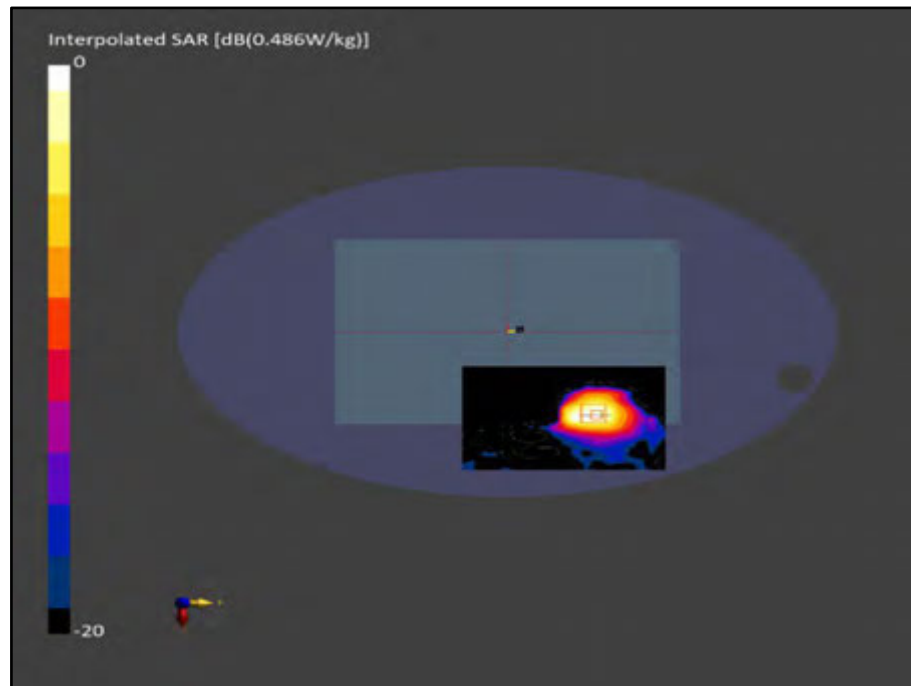


Figure C.5: SAR Testing Results for the A3113 at 5250 MHz Core 1



Measurement Report for A3113, BACK, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	5850.0, 5850000	4.83	5.32	33.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 03:35	2023-10-19, 03:43
psSAR1g [W/Kg]	0.488	0.555
psSAR10g [W/Kg]	0.167	0.172
Power Drift [dB]	0.17	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.9
Dist 3dB Peak [mm]		7.2

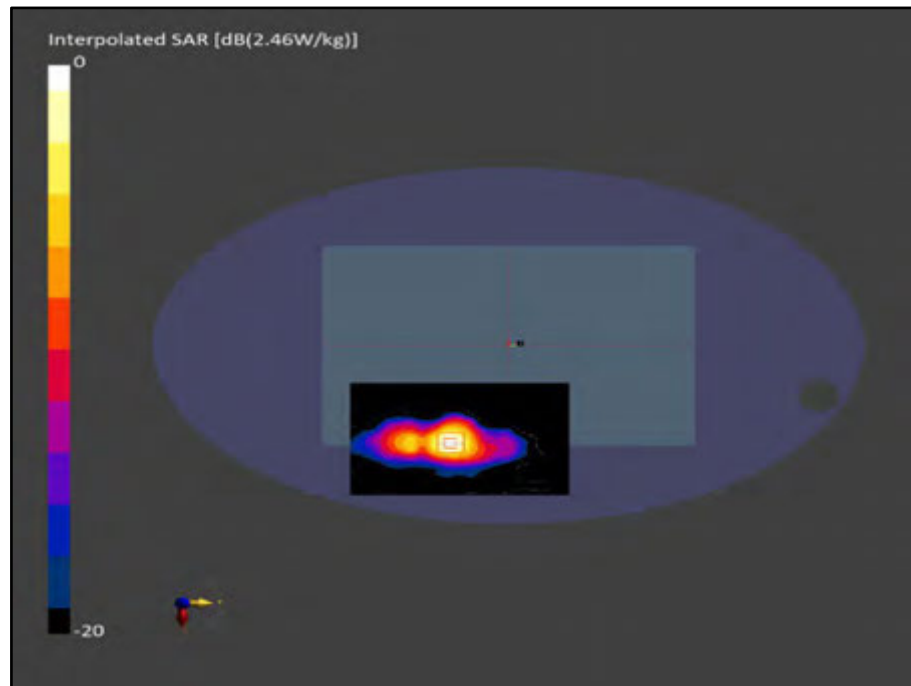


Figure C.6: SAR Testing Results for the A3113 at 5850 MHz Core 0



Measurement Report for A3113, BACK, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	5850.0, 5850000	4.83	5.32	33.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 05:10	2023-10-19, 05:19
psSAR1g [W/Kg]	0.385	0.425
psSAR10g [W/Kg]	0.131	0.138
Power Drift [dB]	0.10	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		7.2

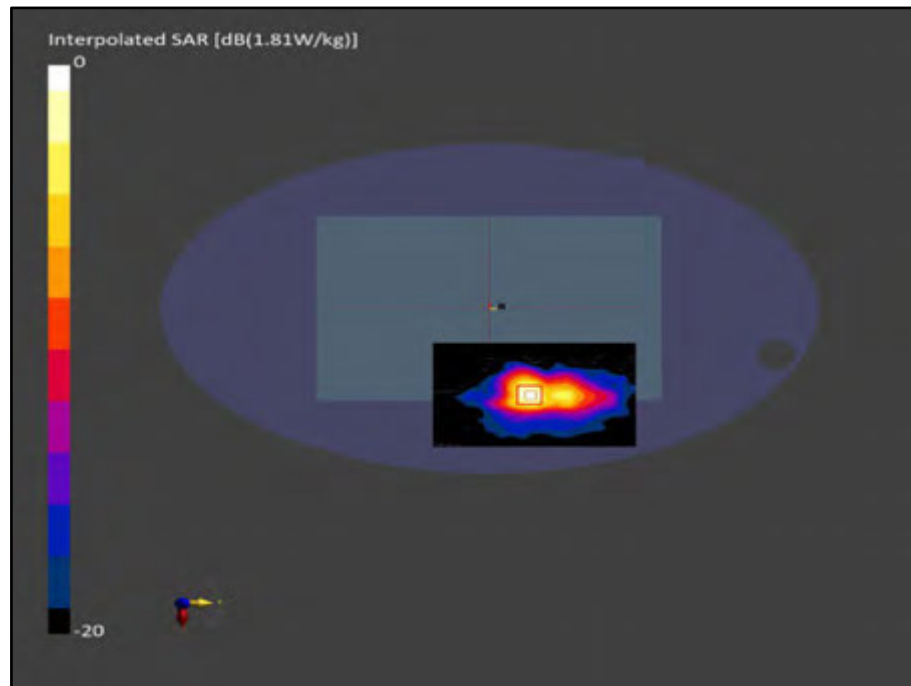


Figure C.7: SAR Testing Results for the A3113 at 5850 MHz Core 1



Measurement Report for A3113, BACK, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	5850.0, 5850000	4.83	5.32	33.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 18:32	2023-10-19, 18:40
psSAR1g [W/Kg]	0.282	0.320
psSAR10g [W/Kg]	0.093	0.10
Power Drift [dB]	-0.01	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.3
Dist 3dB Peak [mm]		7.2

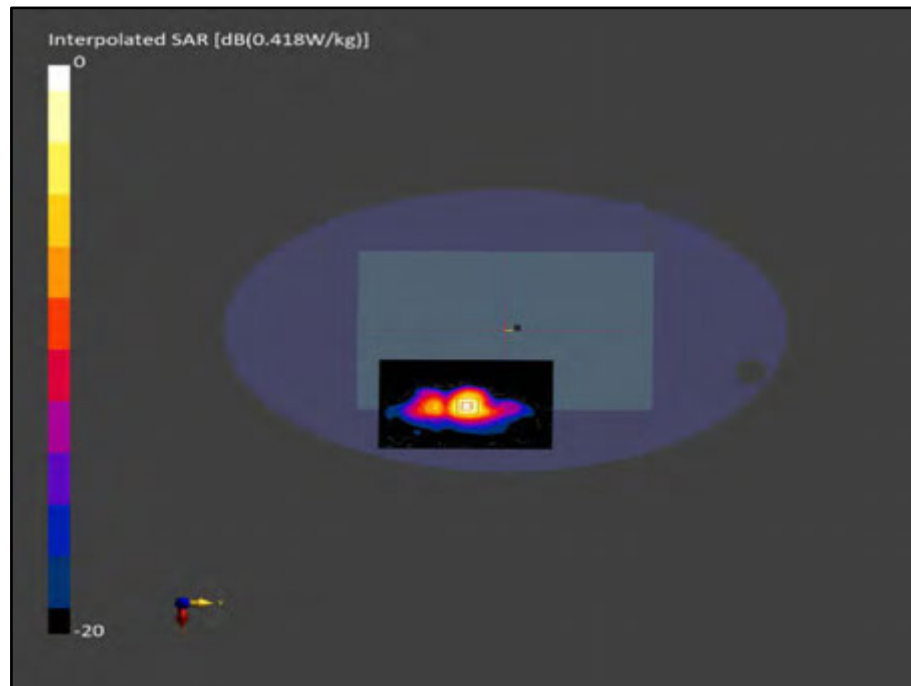


Figure C.8: SAR Testing Results for the A3113 at 5850 MHz Core 0



Measurement Report for A3113, BACK, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	5850.0, 5850000	4.83	5.32	33.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 21.83 deg.C 2023-Oct-18 SYS6 B6.prn, 2023-Oct-18	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 19:36	2023-10-19, 19:45
psSAR1g [W/Kg]	0.201	0.218
psSAR10g [W/Kg]	0.068	0.069
Power Drift [dB]	-0.29	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		56.0
Dist 3dB Peak [mm]		8.0

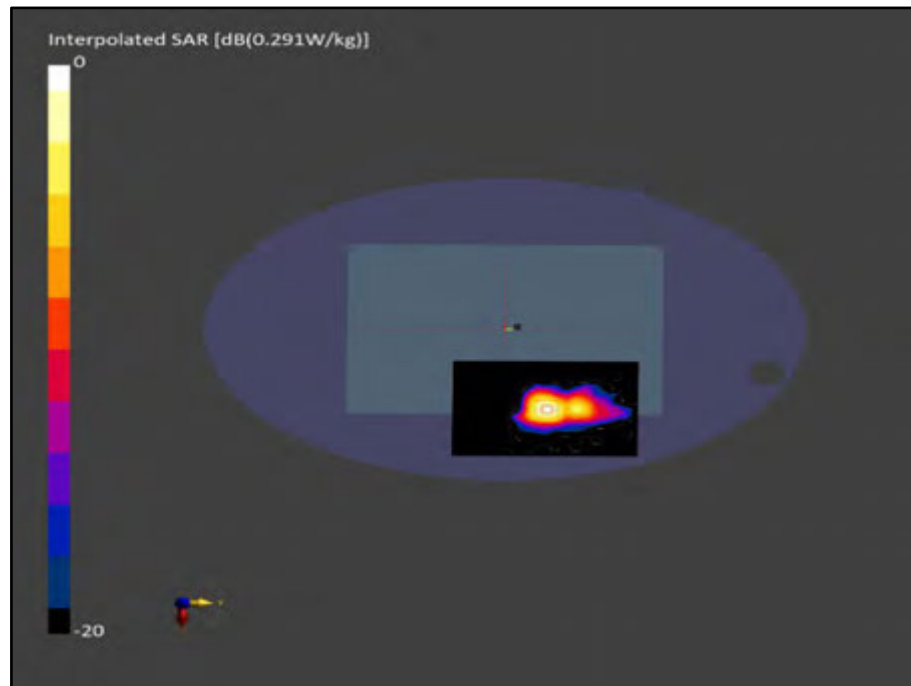


Figure C.9: SAR Testing Results for the A3113 at 5850 MHz Core 1



Measurement Report for A3113, BACK, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	2480.0, 2480000	7.78	1.89	40.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 20.18 deg.C 2023-Oct-16 SYS3 B3.prn, 2023-Oct-16	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	NS	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 17:38	2023-10-19, 17:50
psSAR1g [W/Kg]	0.484	0.509
psSAR10g [W/Kg]	0.213	0.208
Power Drift [dB]	0.04	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		73.1
Dist 3dB Peak [mm]		7.1

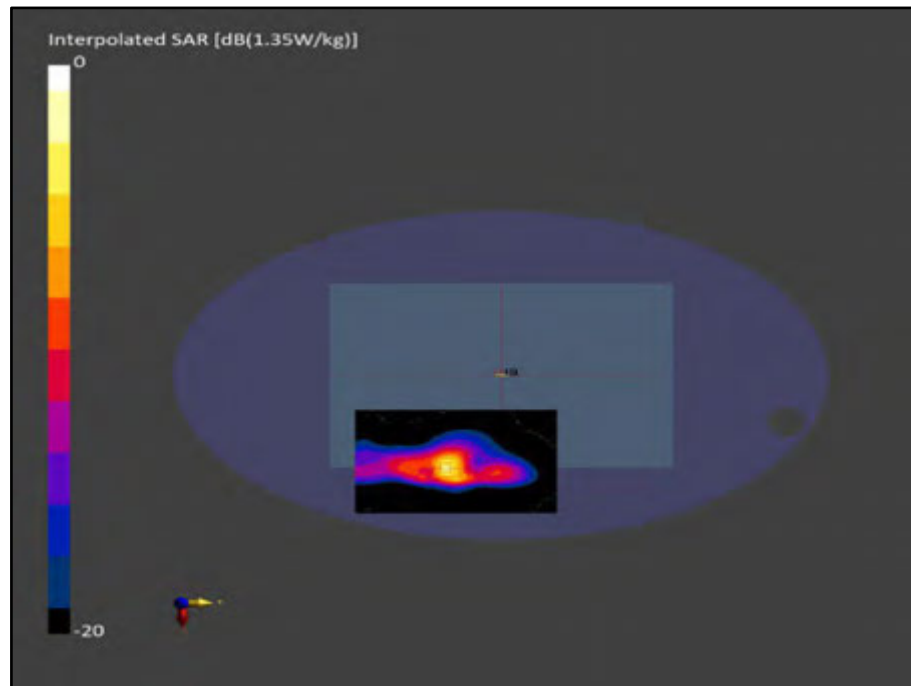


Figure C.10: SAR Testing Results for the A3113 at 2480 MHz Core 0



Measurement Report for A3113, BACK, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	Custom Band	CW, 0--	2480.0, 2480000	7.78	1.89	40.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 20.18 deg.C 2023-Oct-16 SYS3 B3.prn, 2023-Oct-16	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	NS	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-19, 20:17	2023-10-19, 20:29
psSAR1g [W/Kg]	0.652	0.708
psSAR10g [W/Kg]	0.293	0.286
Power Drift [dB]	0.03	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.5
Dist 3dB Peak [mm]		6.1

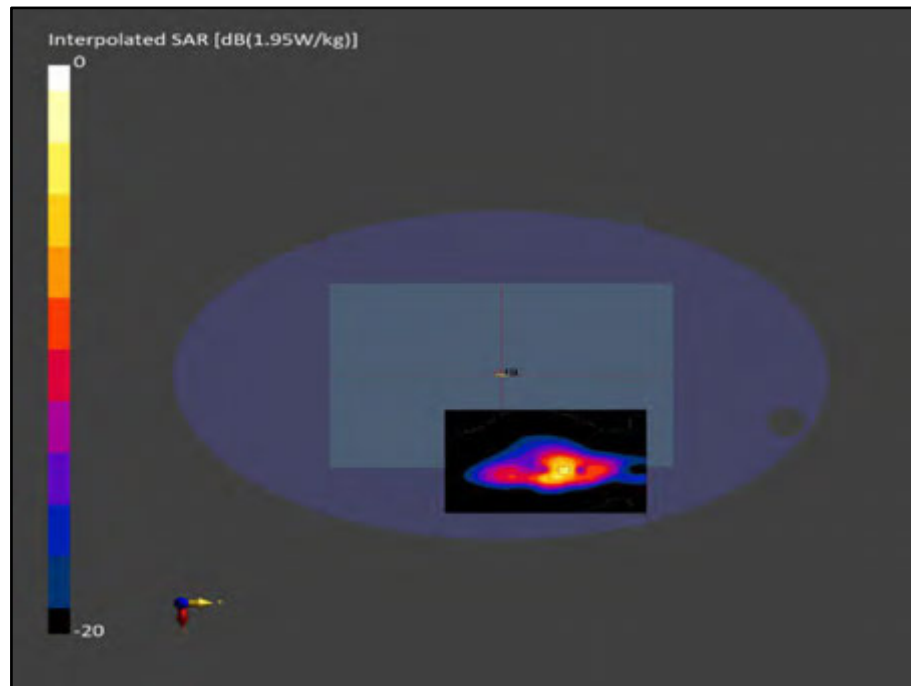


Figure C.11: SAR Testing Results for the A3113 at 2480 MHz Core 1



Measurement Report for A3113, BACK, Custom Band, CW, Channel 2405000 (2405.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	Custom Band	CW, 0--	2405.0, 2405000	7.78	1.83	40.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 20.85 deg.C 2023-Oct-18 SYS3 B3.prn, 2023-Oct-20	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	NS	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-20, 08:16	2023-10-20, 08:28
psSAR1g [W/Kg]	0.224	0.242
psSAR10g [W/Kg]	0.101	0.10
Power Drift [dB]	0.02	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		73.5
Dist 3dB Peak [mm]		7.0

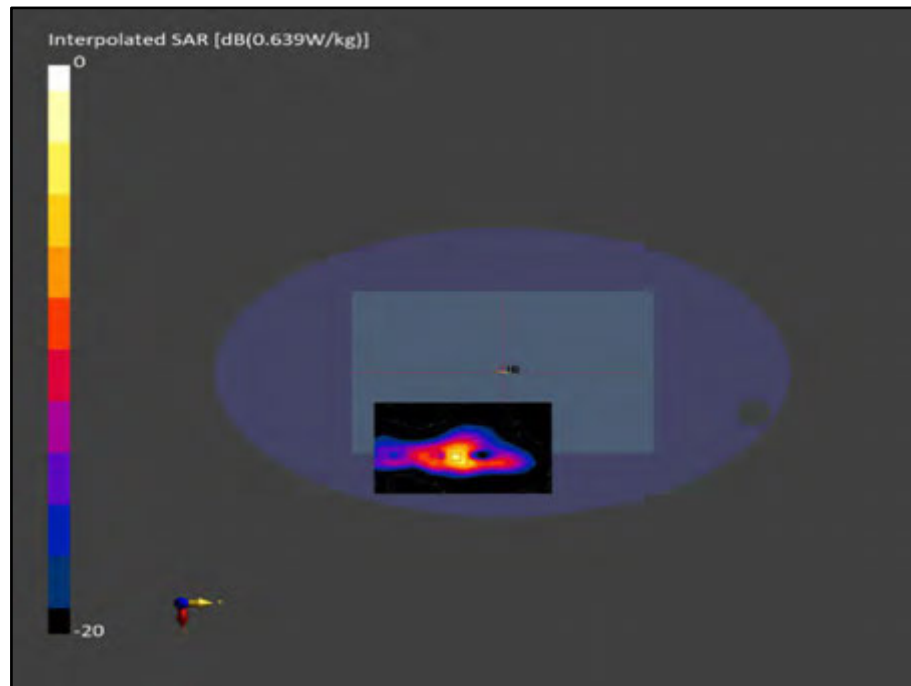


Figure C.12: SAR Testing Results for the A3113 at 2405 MHz Core 0



Measurement Report for A3113, BACK, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	Custom Band	CW, 0--	2480.0, 2480000	7.78	1.89	40.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 20.85 deg.C 2023-Oct-18 SYS3 B3.prn, 2023-Oct-20	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	NS	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-20, 06:09	2023-10-20, 06:20
psSAR1g [W/Kg]	0.233	0.253
psSAR10g [W/Kg]	0.109	0.102
Power Drift [dB]	0.07	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.3
Dist 3dB Peak [mm]		6.8

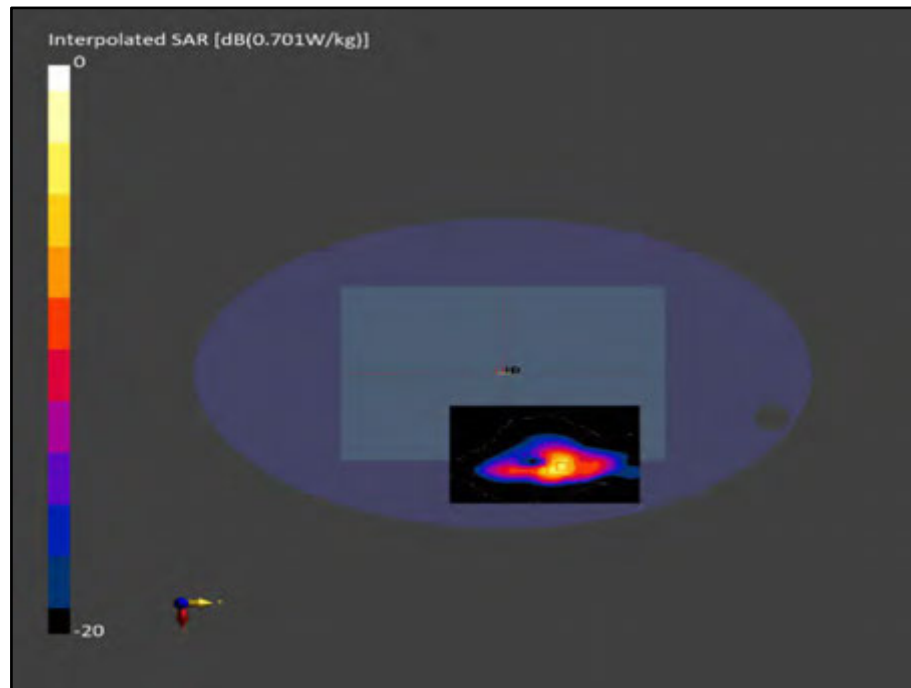


Figure C.13: SAR Testing Results for the A3113 at 2480 MHz Core 1



**Measurement Report for A3113, BACK, WLAN 2.4GHz, IEEE 802.11n
(HT Mixed, 6.5 Mbps, BPSK), Channel 2 (2417.000 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 2.4GHz	WLAN, 10196-CAD	2417.000, 2	7.78	1.82	39.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 21.65 deg.C 2023-Oct-20 SYS3 B3.prn, 2023-Oct-25	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	NS	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-20, 20:07	2023-10-20, 20:18
psSAR1g [W/Kg]	0.644	0.690
psSAR10g [W/Kg]	0.286	0.280
Power Drift [dB]	0.02	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		72.5
Dist 3dB Peak [mm]		6.5

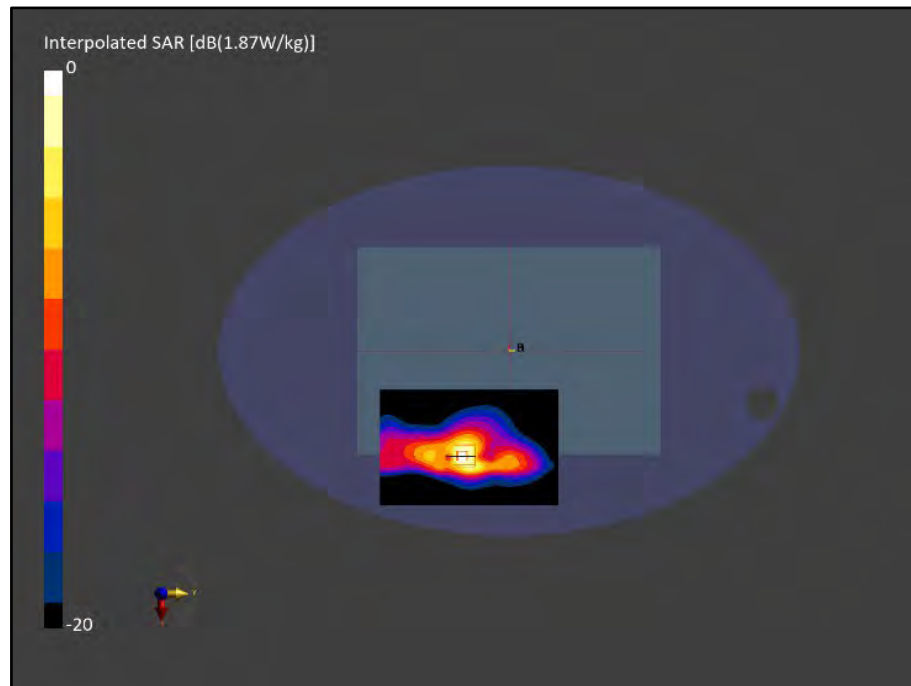


Figure C.14: SAR Testing Results for the A3113 at 2417 MHz Core 0



**Measurement Report for A3113, BACK, WLAN 2.4GHz, IEEE 802.11n
(HT Mixed, 6.5 Mbps, BPSK), Channel 10 (2457.000 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	WLAN 2.4GHz	WLAN, 10196-CAD	2457.000, 10	7.78	1.85	39.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 21.65 deg.C 2023-Oct-20 SYS3 B3.prn, 2023-Oct-25	EX3DV4 - SN7536, 2023-06-12	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	4.9 x 4.9 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.5
MAIA	NS	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-20, 22:37	2023-10-20, 22:51
psSAR1g [W/Kg]	0.684	0.744
psSAR10g [W/Kg]	0.307	0.299
Power Drift [dB]	0.05	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		72.2
Dist 3dB Peak [mm]		6.2

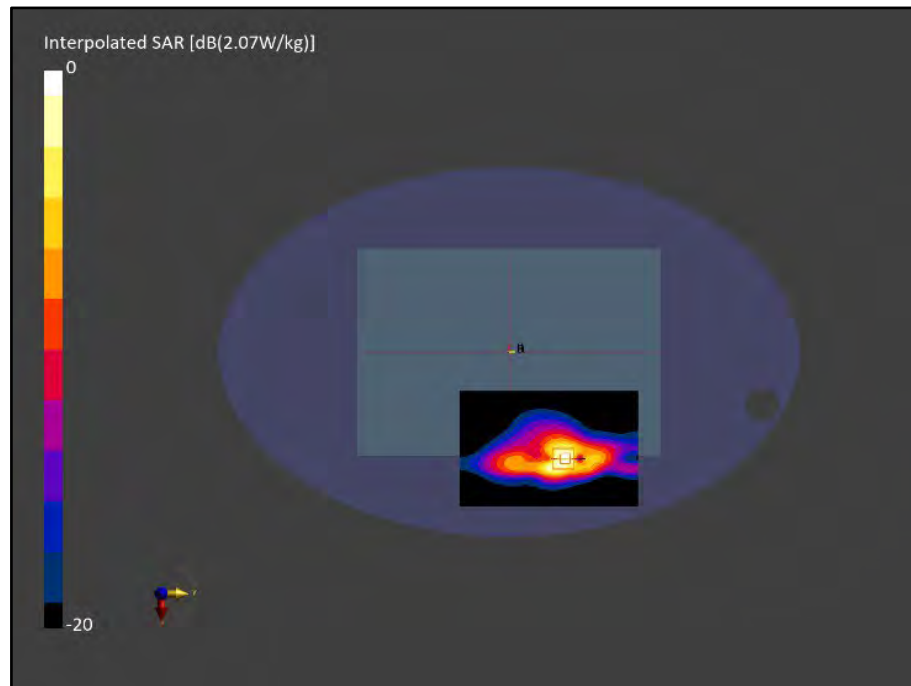


Figure C.15: SAR Testing Results for the A3113 at 2457 MHz Core 1



Measurement Report for A3113, BACK, WLAN 2.4 GHz, IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK), Channel 10 (2457.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 2.4GHz	WLAN, 10196-CAD	, 10	7.22	1.85	39.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2102	HBBL-600-10000 DAK 3.5 Head 21.65 deg.C 2023-Oct-20 SYS3 B3.prn, 2023-Oct-21	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1785, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	30.0 x 30.0 x 30.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.5	1.5
MAIA	N/A	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-10-21, 05:23	2023-10-21, 05:34	2023-10-21, 05:45
psSAR1g [W/Kg]	0.676	0.746	0.573
psSAR10g [W/Kg]	0.309	0.298	0.239
Power Drift [dB]	-0.00	0.01	0.00
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		73.7	73.2
Dist 3dB Peak [mm]		6.4	7.0

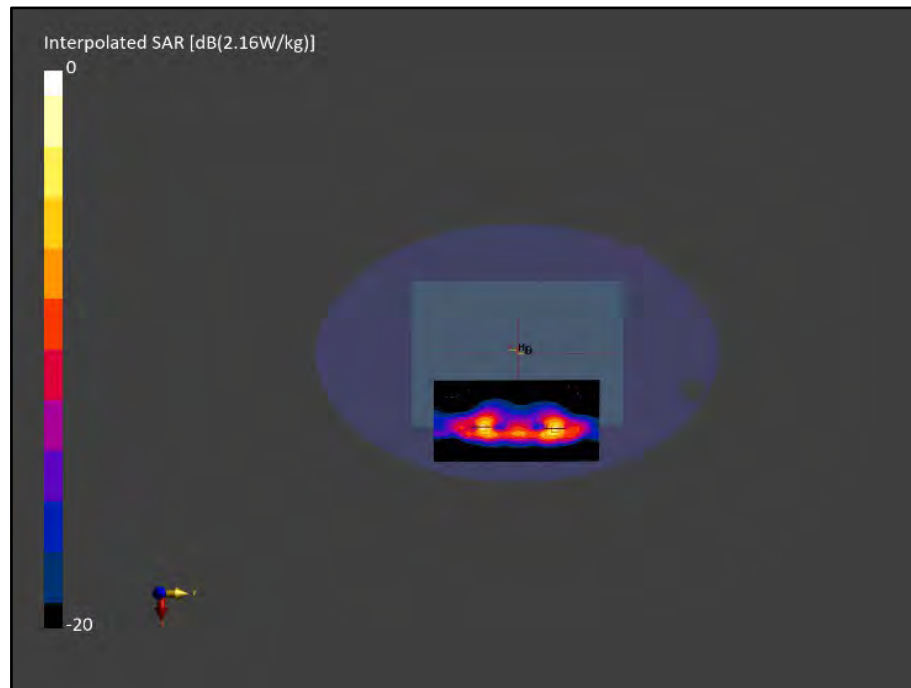


Figure C.16: SAR Testing Results for the A3113 at 2457 MHz Core 0 & Core 1



**Measurement Report for A3113, BACK, WLAN 5 GHz, IEEE 802.11a/h WiFi 5 GHz
(OFDM, 6 Mbps, 99pc duty cycle), Channel 40 (5200.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 5 GHz	WLAN, 10417-AAC	5200.0, 40	5.53	4.39	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-24, 15:33	2023-10-24, 15:44
psSAR1g [W/Kg]	0.571	0.634
psSAR10g [W/Kg]	0.230	0.242
Power Drift [dB]	0.04	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		10.7

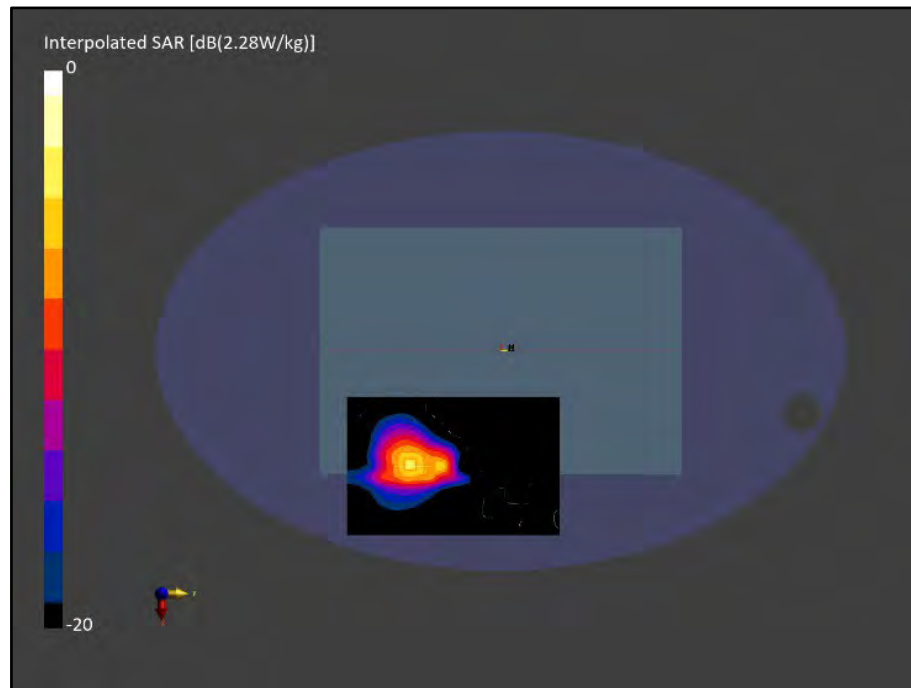


Figure C.17: SAR Testing Results for the A3113 at 5200 MHz Core 0



**Measurement Report for A3113, BACK, WLAN 5 GHz, IEEE 802.11a/h WiFi 5 GHz
(OFDM, 6 Mbps, 99pc duty cycle), Channel 36 (5180.000 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 5 GHz	WLAN, 10417-AAC	5180.000, 36	5.53	4.53	34.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.9 deg.C 2023-Oct-25 SYS6 B6.prn, 2023-Oct-25	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-25, 12:14	2023-10-25, 12:24
psSAR1g [W/Kg]	0.474	0.518
psSAR10g [W/Kg]	0.184	0.188
Power Drift [dB]	-0.06	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		8.0

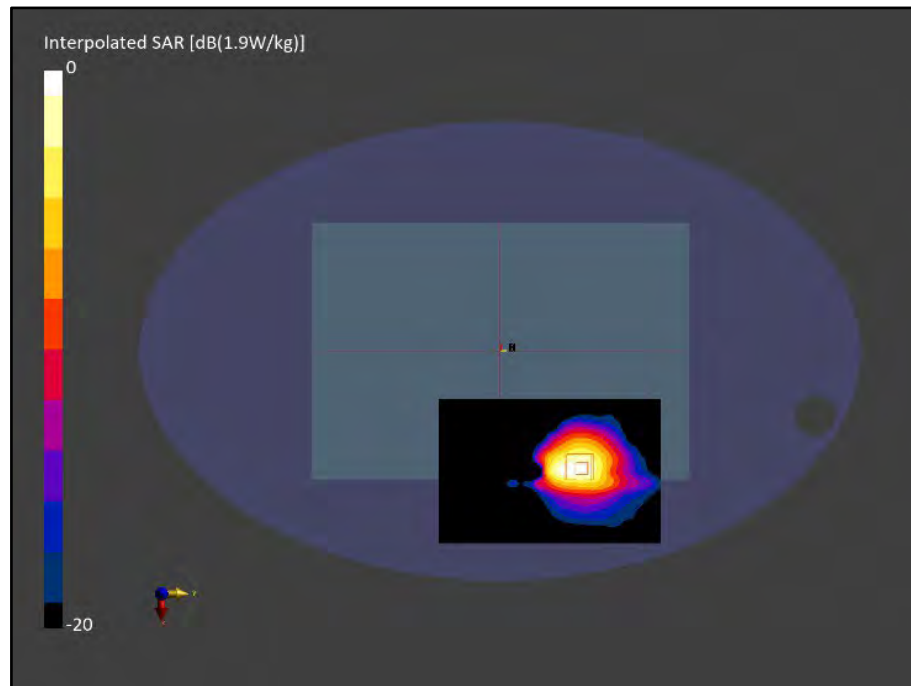


Figure C.18: SAR Testing Results for the A3113 at 5180 MHz Core 1



**Measurement Report for A3113, BACK, U-NII-1, U-NII-2A, IEEE 802.11n
(HT Mixed, 13.5 Mbps, BPSK), Channel 46 (5230.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	U-NII-1, U-NII-2A	WLAN, 10117-CAD	, 46	5.53	4.42	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	NS	Yes	Yes
Grading Ratio	NS	1.4	1.4
MAIA	Y	NS	NS
Surface Detection	All points	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-10-24, 19:51	2023-10-24, 20:00	2023-10-24, 20:11
psSAR1g [W/Kg]	0.531	0.551	0.485
psSAR10g [W/Kg]	0.213	0.184	0.219
Power Drift [dB]	0.05	0.05	0.04
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		63.6	61.3
Dist 3dB Peak [mm]		8.0	10.7

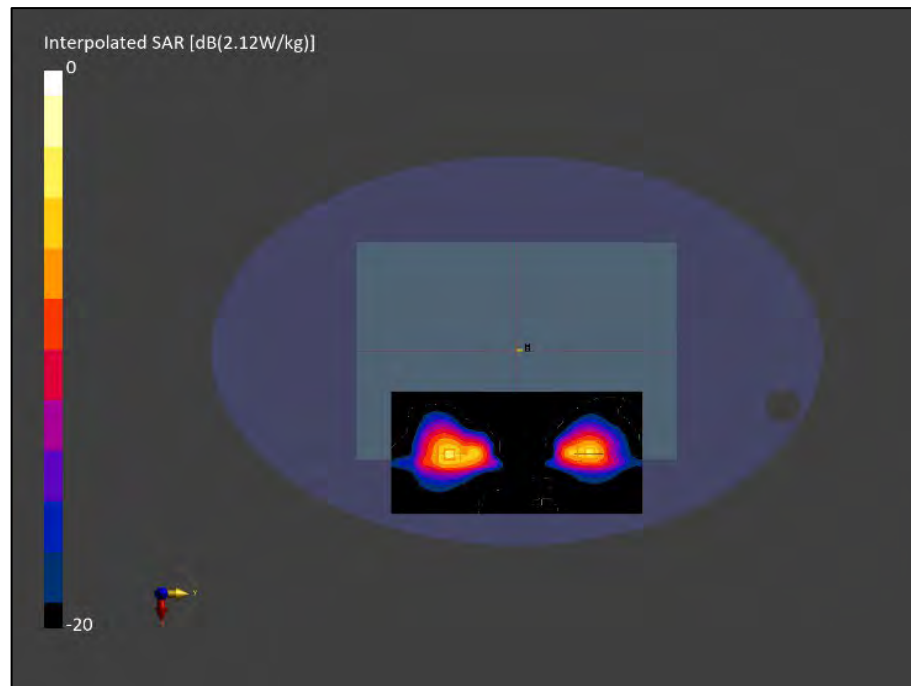


Figure C.19: SAR Testing Results for the A3113 at 5230 MHz Core 0 & Core 1



**Measurement Report for A3113, FRONT, WLAN 5 GHz, IEEE 802.11ac WiFi
(40 MHz, MCS0, 99pc duty cycle), Channel 54 (5270.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	FRONT, 0.00	WLAN 5 GHz	WLAN, 10534-AAC	5270.0, 54	5.27	4.61	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Oct-20 SYS6 B6.prn, 2023-Oct-20	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-20, 22:43	2023-10-20, 22:55
psSAR1g [W/Kg]	0.622	0.634
psSAR10g [W/Kg]	0.075	0.073
Power Drift [dB]	0.14	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.8
Dist 3dB Peak [mm]		9.7

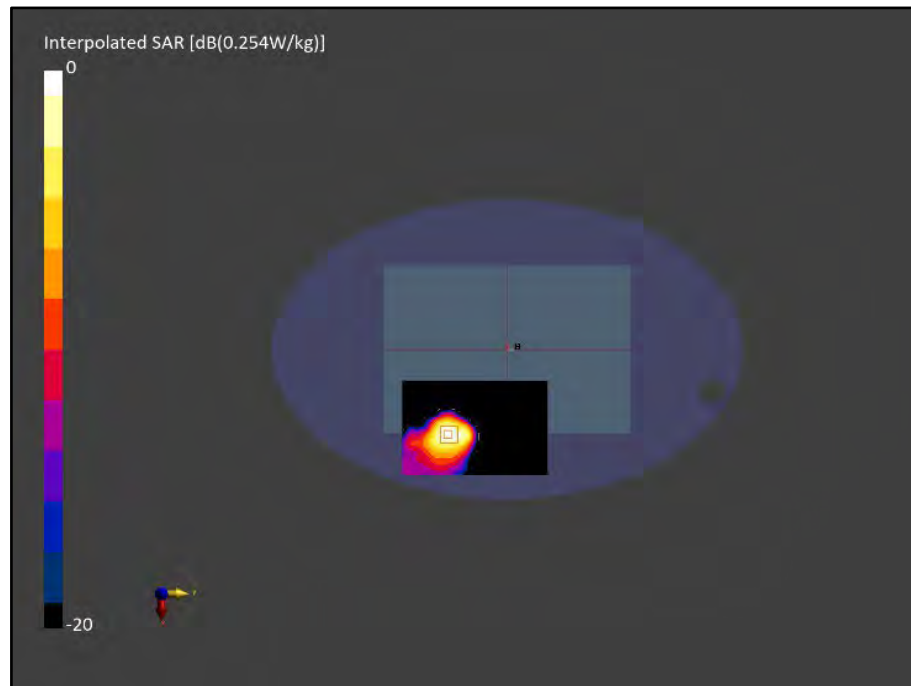


Figure C.20: SAR Testing Results for the A3113 at 5270 MHz Core 0



Measurement Report for A3113, BACK, WLAN 5 GHz, IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle), Channel 54 (5270.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 5 GHz	WLAN, 10534-AAC	5270.0, 54	5.27	4.61	33.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Oct-20 SYS6 B6.prn, 2023-Oct-20	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-20, 23:47	2023-10-20, 23:57
psSAR1g [W/Kg]	0.578	0.634
psSAR10g [W/Kg]	0.223	0.221
Power Drift [dB]	-0.04	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		7.9

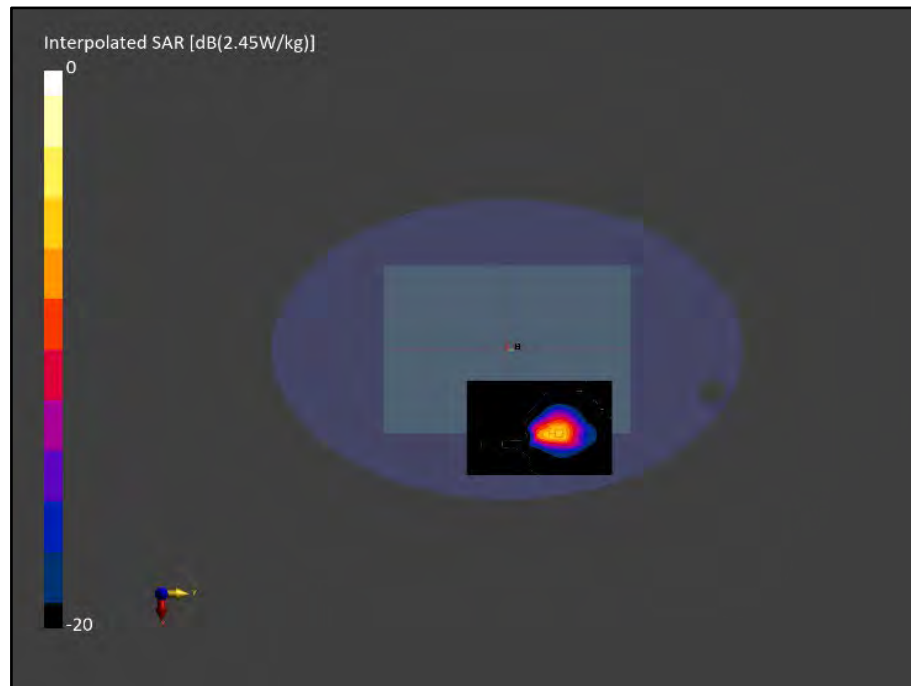


Figure C.21: SAR Testing Results for the A3113 at 5270 MHz Core 1



Measurement Report for A3113, BACK, U-NII-1, U-NII-2A, IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle), Channel 64 (5320.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	U-NII-1, U-NII-2A	WLAN, 10525-AAC	, 64	5.27	4.52	33.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 260.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	NS	Yes	Yes
Grading Ratio	NS	1.4	1.4
MAIA	Y	NS	NS
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-10-23, 20:20	2023-10-23, 20:31	2023-10-23, 20:40
psSAR1g [W/Kg]	0.539	0.544	0.578
psSAR10g [W/Kg]	0.203	0.202	0.203
Power Drift [dB]	0.00	-0.03	-0.02
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		60.7	62.4
Dist 3dB Peak [mm]		9.9	7.6

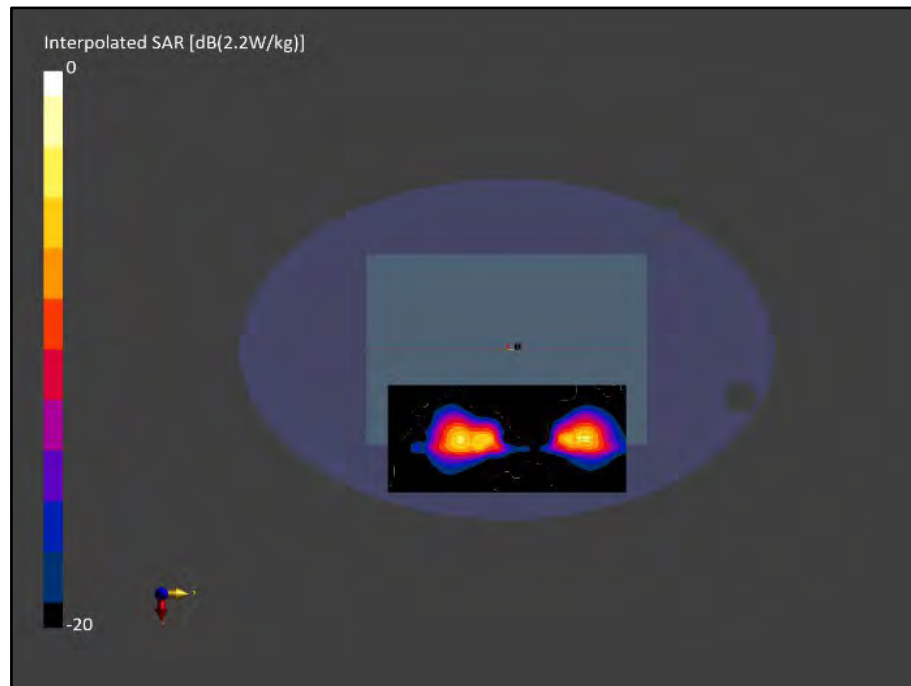


Figure C.22: SAR Testing Results for the A3113 at 5270 MHz Core 0 & Core 1



Measurement Report for A3113, BACK, U-NII-2C, U-NII-3, IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle), Channel 138 (5690.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	U-NII-2C, U-NII-3	WLAN, 10544-AAC	5690.0, 138	4.75	5.11	33.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.9 deg.C 2023-Oct-25 SYS6 B6.prn, 2023-Oct-25	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-26, 18:53	2023-10-26, 19:00
psSAR1g [W/Kg]	0.576	0.653
psSAR10g [W/Kg]	0.193	0.207
Power Drift [dB]	0.15	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.7
Dist 3dB Peak [mm]		7.2

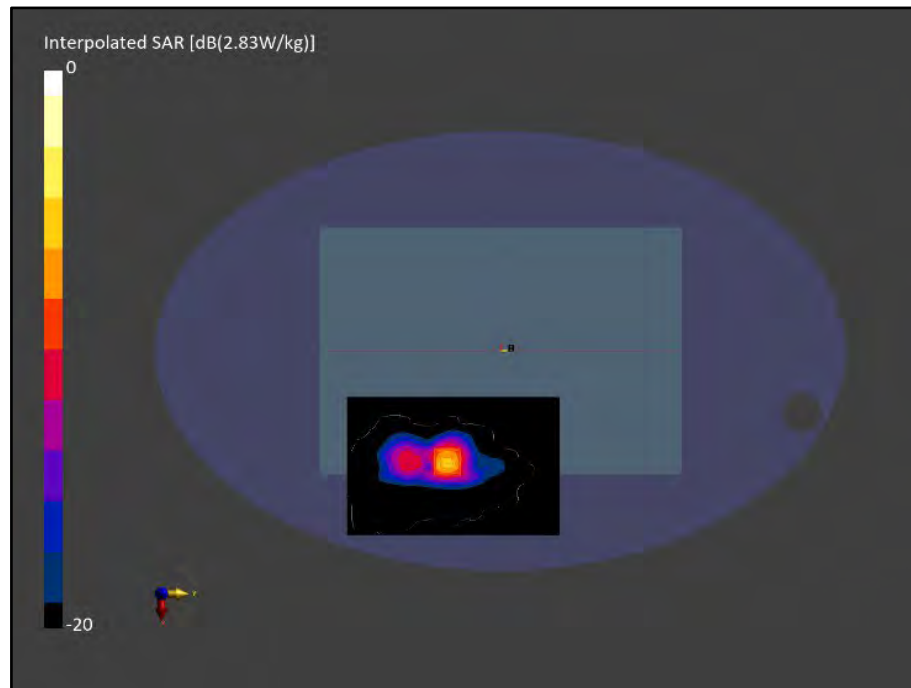


Figure C.23: SAR Testing Results for the A3113 at 5690 MHz Core 0



**Measurement Report for A3113, BACK, U-NII-2C < 5.65 GHz, IEEE 802.11ac WiFi
(80 MHz, MCS0, 99pc duty cycle), Channel 106 (5530.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	U-NII-2C < 5.65 GHz	WLAN, 10544-AAC	5530.0, 106	4.84	4.93	33.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.9 deg.C 2023-Oct-25 SYS6 B6.prn, 2023-Oct-25	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-26, 19:18	2023-10-26, 19:26
psSAR1g [W/Kg]	0.431	0.473
psSAR10g [W/Kg]	0.150	0.156
Power Drift [dB]	0.11	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.7
Dist 3dB Peak [mm]		7.3

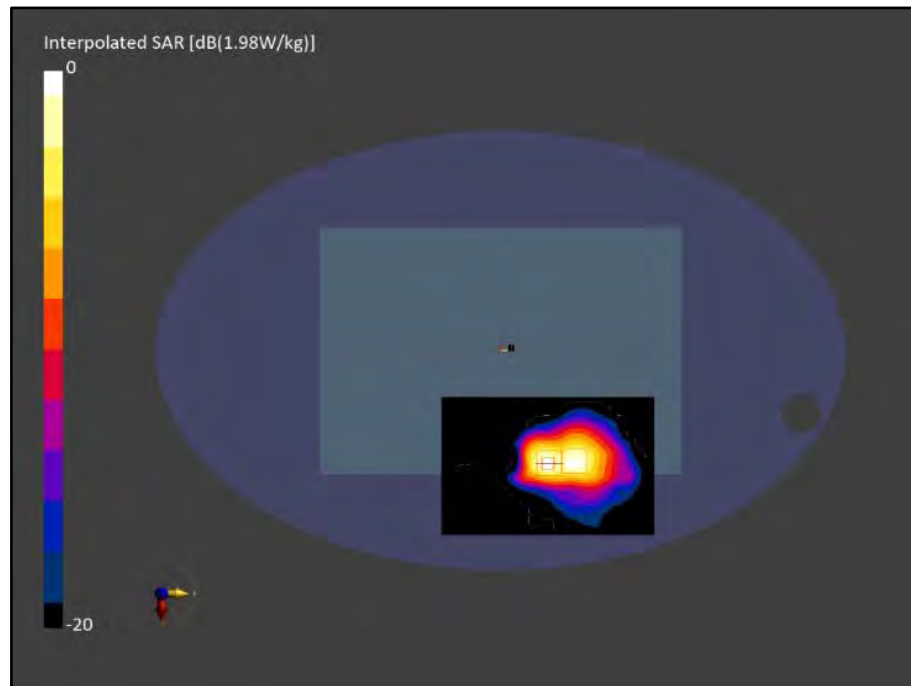


Figure C.24: SAR Testing Results for the A3113 at 5530 MHz Core 1



Measurement Report for A3113, BACK, U-NII-2C, U-NII-3, IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK), Channel 136 (5680.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	U-NII-2C, U-NII-3	WLAN, 10196-CAD	, 136	4.75	4.90	33.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	NS	Yes	Yes
Grading Ratio	NS	1.4	1.4
MAIA	Y	NS	NS
Surface Detection	All points	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-10-25, 00:13	2023-10-25, 00:20	2023-10-25, 00:29
psSAR1g [W/Kg]	0.594	0.663	0.521
psSAR10g [W/Kg]	0.210	0.221	0.171
Power Drift [dB]	-0.00	0.04	-0.03
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		59.7	58.7
Dist 3dB Peak [mm]		7.2	7.4

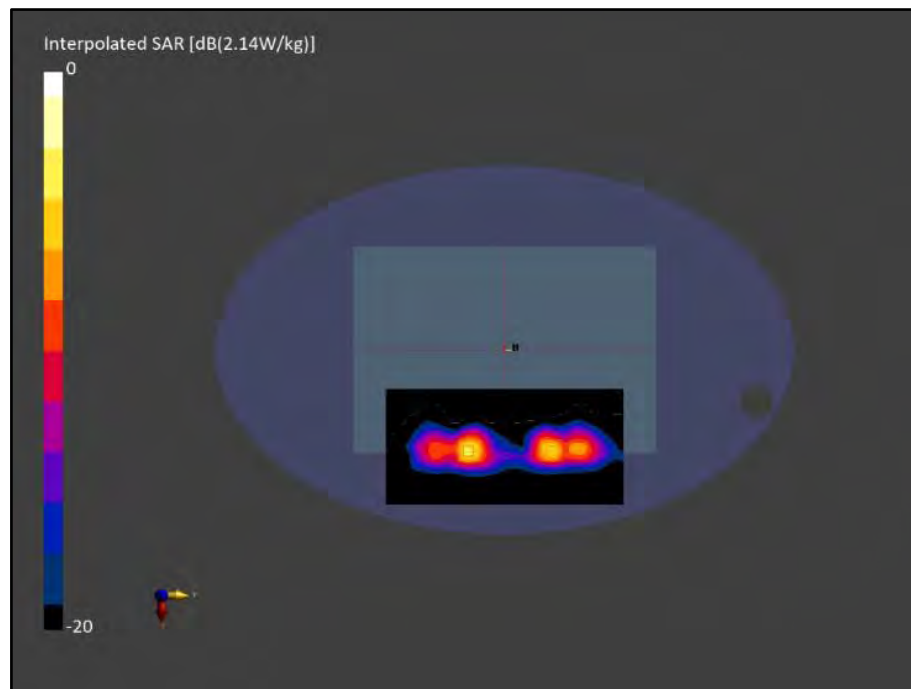


Figure C.25: SAR Testing Results for the A3113 at 5680 MHz Core 0 & Core 1



**Measurement Report for Device, BACK, WLAN 5 GHz, IEEE 802.11ac WiFi
(80 MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 5 GHz	WLAN, 10544-AAC	5775.0, 155	4.83	5.17	33.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Oct-20 SYS6 B6.prn, 2023-Oct-20	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-21, 04:52	2023-10-21, 05:01
psSAR1g [W/Kg]	0.695	0.781
psSAR10g [W/Kg]	0.229	0.241
Power Drift [dB]	0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		6.4

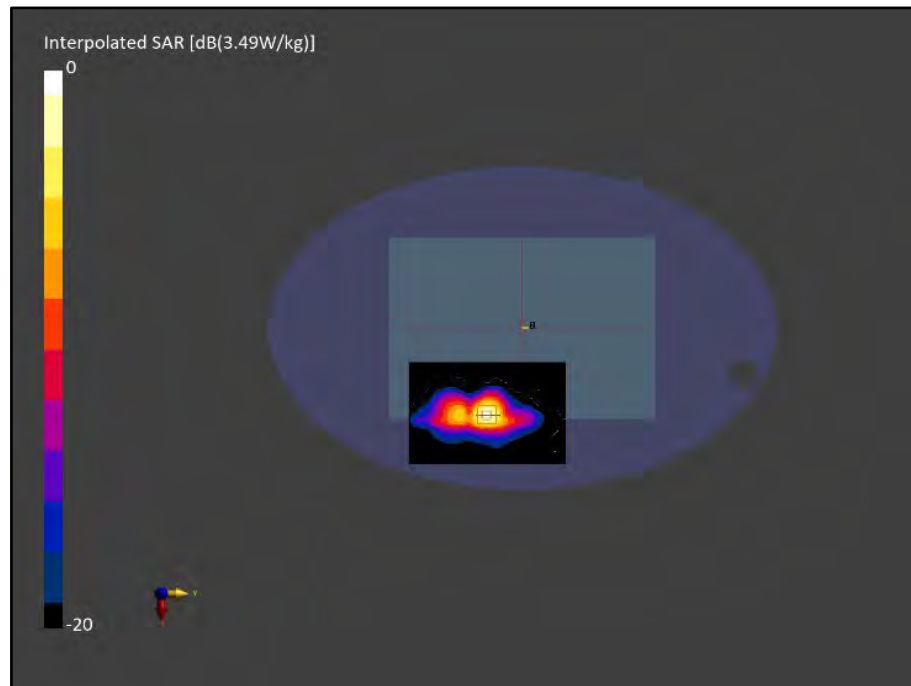


Figure C.26: SAR Testing Results for the A3113 at 5775 MHz Core 0



**Measurement Report for A3113, BACK, WLAN 5 GHz, IEEE 802.11ac WiFi
(80 MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 5 GHz	WLAN, 10544-AAC	5775.0, 155	4.83	5.01	32.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	NS
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-23, 13:56	2023-10-23, 14:05
psSAR1g [W/Kg]	0.442	0.486
psSAR10g [W/Kg]	0.149	0.161
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		8.0

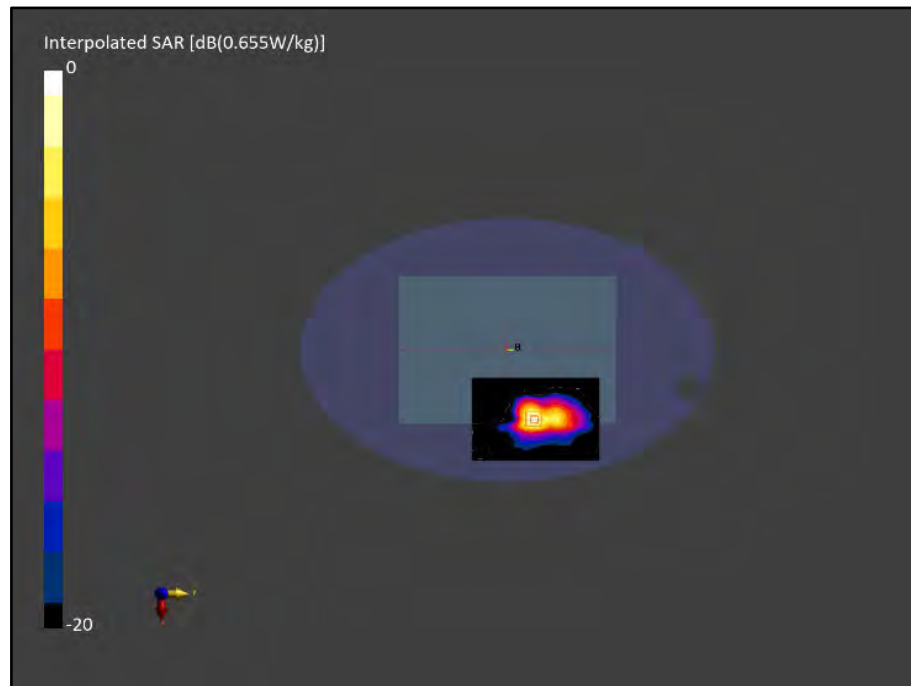


Figure C.27: SAR Testing Results for the A3113 at 5775 MHz Core 1



Measurement Report for A3113, BACK, WLAN 5 GHz, IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	WLAN 5 GHz	WLAN, 10544-AAC	, 155	4.83	5.01	32.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2203	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7809, 2023-05-03	DAE4ip Sn1789, 2023-05-02

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 260.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	NS	Yes	Yes
Grading Ratio	NS	1.4	1.4
MAIA	Y	NS	NS
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-10-23, 22:39	2023-10-23, 22:47	2023-10-23, 22:56
psSAR1g [W/Kg]	0.657	0.738	0.467
psSAR10g [W/Kg]	0.217	0.229	0.152
Power Drift [dB]	-0.03	-0.08	-0.01
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		58.1	57.8
Dist 3dB Peak [mm]		7.2	8.0

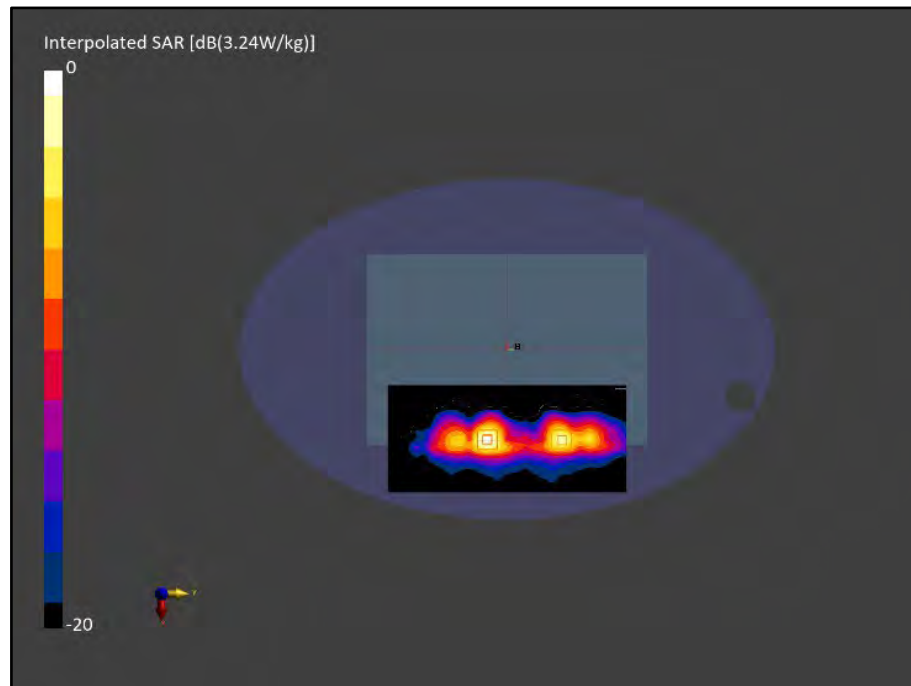


Figure C.28: SAR Testing Results for the A3113 at 5775 MHz Core 0 & Core 1



**Measurement Report for A3113, BACK, U-NII-5, IEEE 802.11ax
(160 MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	5.07	5.24	32.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 20.15 deg.C 2023-Oct-23 SYS6 B6.prn, 2023-Oct-23	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1786, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	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]	3.0	1.4
Graded Grid	NS	Yes
Grading Ratio	NS	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-25, 04:32	2023-10-25, 04:43
psSAR1g [W/Kg]	0.281	0.318
psSAR10g [W/Kg]	0.089	0.098
Power Drift [dB]	0.20	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		6.2



Figure C.29: SAR Testing Results for the A3113 at 6025 MHz Core 0



**Measurement Report for A3113, BACK, U-NII-8, IEEE 802.11ax
(160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Phone

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	BACK, 0.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	5.07	6.66	31.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 21.5 deg.C 2023-Oct-25 09_19_27.prn, 2023-Oct-25	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1786, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 187.0	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
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-10-25, 19:57	2023-10-25, 20:08
psSAR1g [W/Kg]	0.322	0.356
psSAR10g [W/Kg]	0.106	0.112
Power Drift [dB]	0.50	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		46.8
Dist 3dB Peak [mm]		8.2

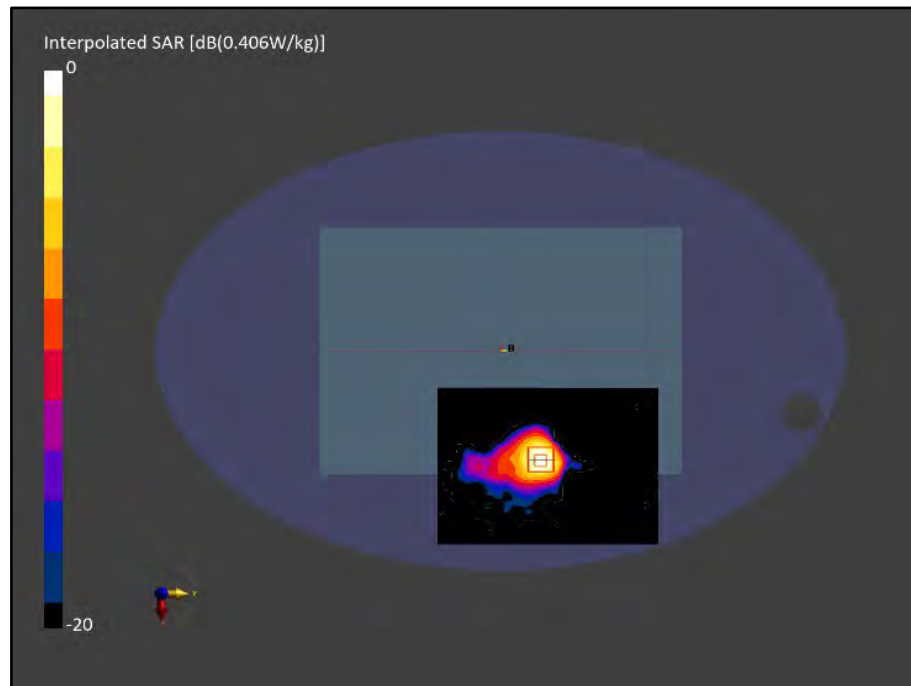


Figure C.30: SAR Testing Results for the A3113 at 6985 MHz Core 1



Measurement Report for A3113, BACK, U-NII-5, IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle), Channel 15 (6665.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		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	BACK, 0.00	U-NII-5	WLAN, 10755-AAC	, 143	5.07	5.50	33.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2202	HBBL-600-10000 DAK 3.5 Head 21.5 deg.C 2023-Oct-25 09_19_27.prn, 2023-Oct-25	EX3DV4 - SN7805, 2023-04-06	DAE4ip Sn1786, 2023-04-03

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 255.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	NS	Yes	Yes
Grading Ratio	NS	1.4	1.4
MAIA	Y	Y	Y
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-10-25, 22:36	2023-10-25, 22:45	2023-10-25, 22:56
psSAR1g [W/Kg]	0.294	0.258	0.298
psSAR10g [W/Kg]	0.095	0.102	0.087
Power Drift [dB]	0.31	0.19	0.20
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		52.7	52.9
Dist 3dB Peak [mm]		6.8	7.5

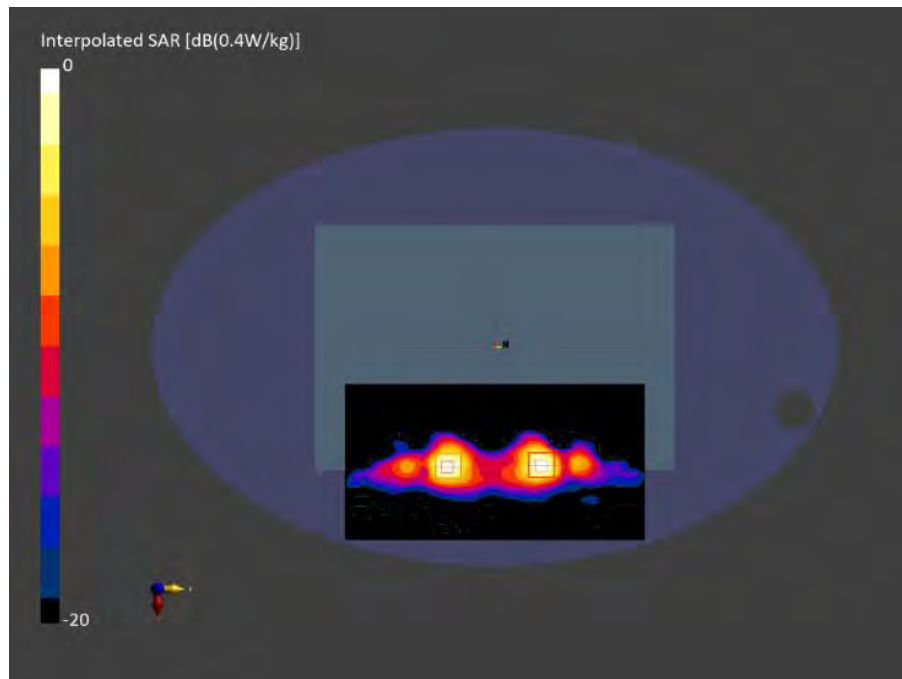


Figure C.31: SAR Testing Results for the A3113 at 6665 MHz Core 0 & Core 1



**Measurement Report for A3113, BACK, U-NII-8, IEEE 802.11ax
(160 MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)**

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A3113,	306.0 x 214.0 x 10.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	BACK, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1112	Air -	EUmmWV4 - SN9641_F1-55 GHz, 2022-10-25	DAE4ip Sn1785, 2023-04-03

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.047559807339951216 x 0.047559807339951216
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2023-11-09, 19:40
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.17
psPDtot+ [W/m ²]	2.17
psPDmod+ [W/m ²]	3.56
E _{max} [V/m]	66.8
Power Drift [dB]	0.22

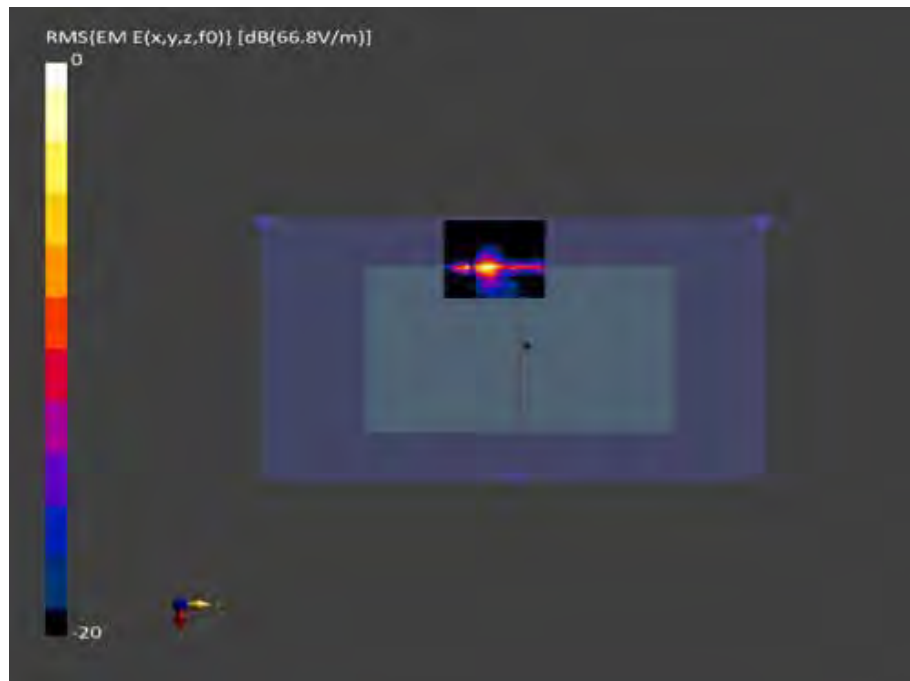


Figure C.32: iPD Testing Results for the A3113 at 6985 MHz



ANNEX D

THREAD TECHNOLOGY DUTY FACTOR CORRECTION

A3113 Thread Scaling Rationale

The measured SAR Results for the Thread technology, as detailed in this document, are scaled down to 59.70% to adjust for the normal operating conditions of this technology as shown in figure 10. With the measured SAR Results having been taken with the device operating in a test mode, on a fixed channel with 100% duty cycle, as shown below in figure 9.

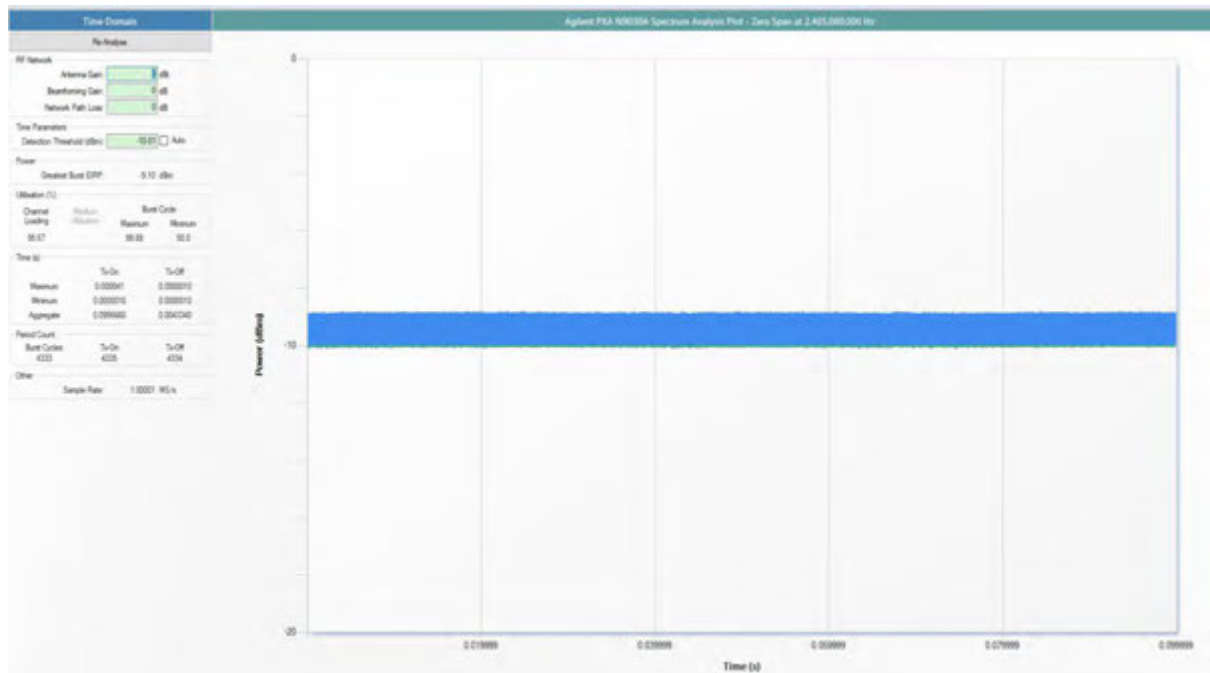


Figure 11 - Thread ePA - Frequency of 2405 MHz (100% Duty Cycle)

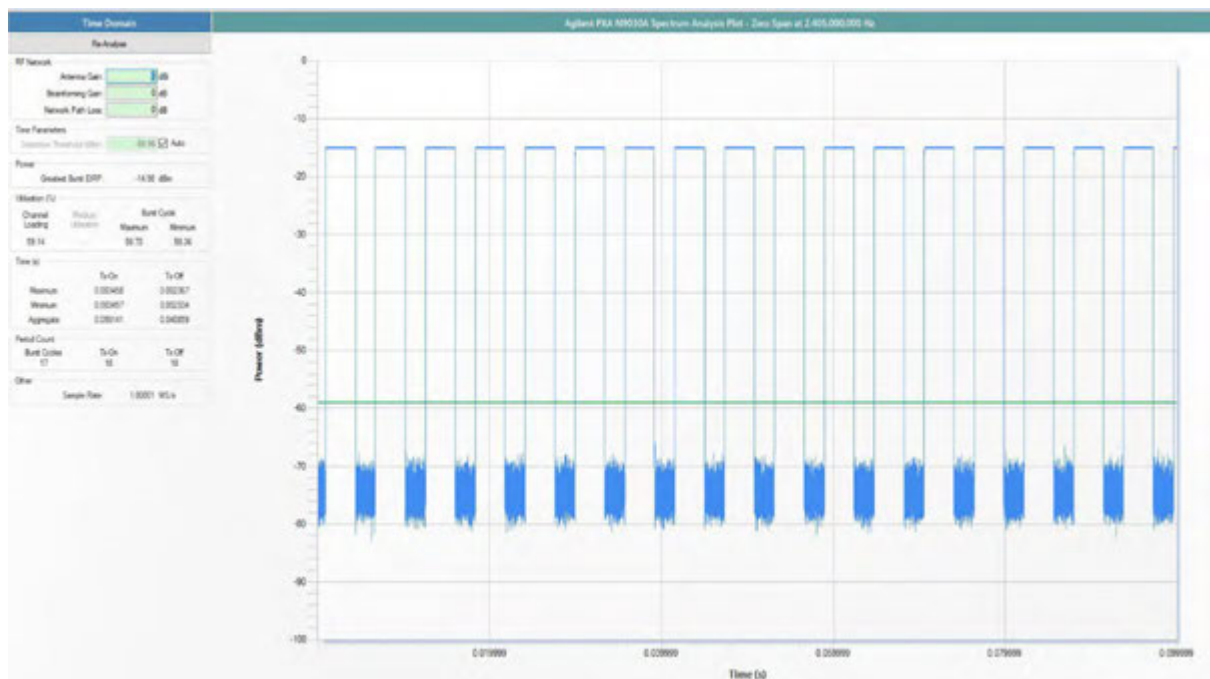


Figure 12 - Thread ePA - Frequency of 2405 MHz (59.70% Duty Cycle)