

APPENDIX A: TEST PLOTS

Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: 0303M

Communication System: UID:10731 - AAC, WLAN; MAIA: Y; Frequency: 6065.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6065.0$ MHz; $\text{cond} = 5.48$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Right Head; Space: 0.00 mm

Test Date: 05/26/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7551; ConvF:(5.54,5.54,5.54); Calibrated: 2021-10-26

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1449; Calibrated: 2021-09-15

Phantom: Twin-SAM V8.0 (Left); Serial: 1964

Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 80 MHz Bandwidth, Right Head, Cheek,
Ch. 23, 68.1 Mbps**

Area Scan (102.0 x 187.0): Measurement grid: $\text{dx}=8.5$ mm, $\text{dy}=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $\text{dx}=3.4$ mm, $\text{dy}=3.4$ mm, $\text{dz}=1.4$ mm; Graded
Ratio: 1.4

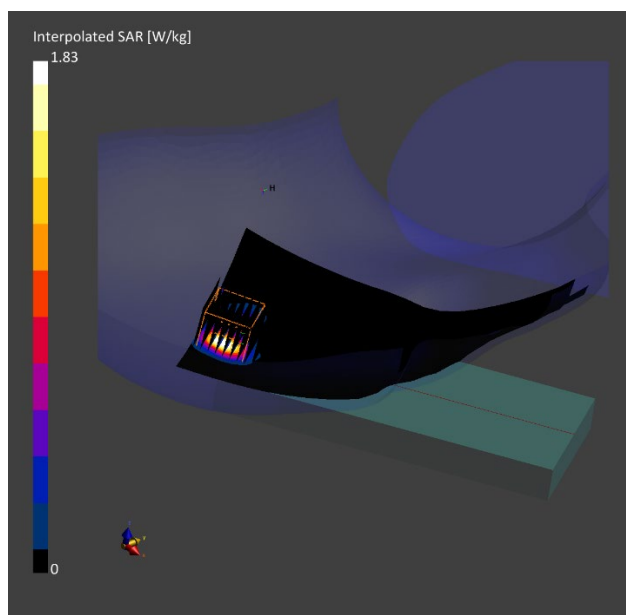
Reference Value = 0.21 W/kg; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.334 W/kg; APD(4 cm²) = 1.99 W/m²

Smallest distance from peaks to all points 3 dB below is 3.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.5 %



Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: 0303M

Communication System: UID:10731 - AAC, WLAN; MAIA: Y; Frequency: 6065.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6065.0$ MHz; $\text{cond} = 5.76$ S/m; $\text{perm} = 34.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 15.00 mm

Test Date: 06/13/2022; Ambient Temp: 21.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7551; ConvF:(5.54,5.54,5.54); Calibrated: 2021-10-26

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1449; Calibrated: 2021-09-15

Phantom: Twin-SAM V8.0 (Left); Serial: 1964

Measurement SW: DASY Module SAR V16.0.0.116

Mode: IEEE 802.11ax, U-NII-5, MIMO, 80 MHz Bandwidth, Body SAR, Ch. 23, Back Side, Peak Number 1, 68.1 Mbps

Area Scan (34.0 x 34.0): Measurement grid: $\text{dx}=8.5$ mm, $\text{dy}=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $\text{dx}=3.4$ mm, $\text{dy}=3.4$ mm, $\text{dz}=1.4$ mm; Graded Ratio: 1.4

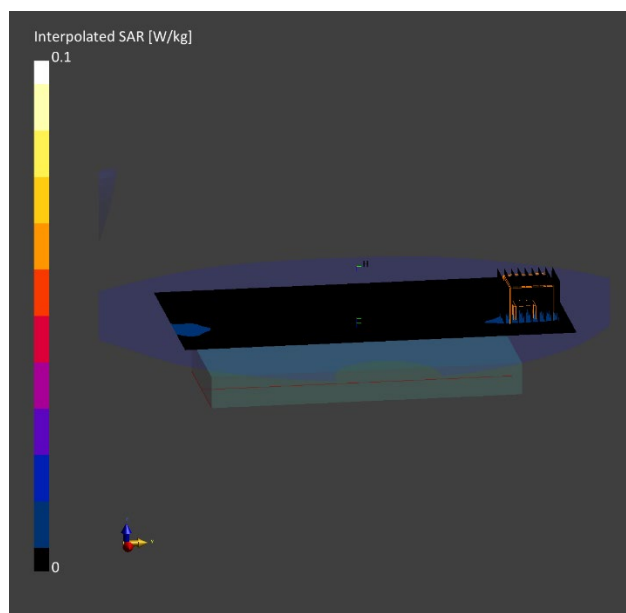
Reference Value = 0.00 W/kg; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.037 W/kg

SAR(1 g) = 0.011 W/kg; APD(4 cm²) = 0.095 W/m²

Smallest distance from peaks to all points 3 dB below is > 11.0 mm

Ratio of SAR at M2 to SAR at M1 = 45.0 %



Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: 0303M

Communication System: UID:10731 - AAC, WLAN; MAIA: Y; Frequency: 6065.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6065.0$ MHz; $\text{cond} = 5.54$ S/m; $\text{perm} = 34.7$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 05/24/2022; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7551; ConvF:(5.54,5.54,5.54); Calibrated: 2021-10-26

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1449; Calibrated: 2021-09-15

Phantom: Twin-SAM V8.0 Right; Serial: 1981

Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 80 MHz Bandwidth, Phablet SAR, Ch.
23, Top Edge, 68.1 Mbps**

Area Scan (51.0 x 102.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=2.7$ mm, $dy=2.7$ mm, $dz=1.2$ mm; Graded
Ratio: 1.2

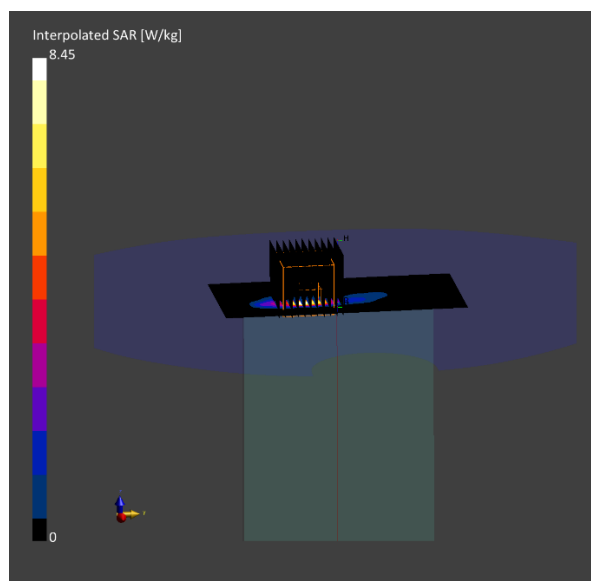
Reference Value = 1.02 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 8.45 W/kg

SAR(10 g) = 0.288 W/kg; APD(4 cm²) = 6.83 W/m²

Smallest distance from peaks to all points 3 dB below is 3.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.5 %



Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: VEI2719M

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 6489.6 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6489.6$ MHz; $\text{cond} = 6.12$ S/m; $\text{perm} = 34.6$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/13/2022; Ambient Temp: 21.1°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3914; ConvF:(5.5,5.5,5.5); Calibrated: 2022-05-17

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn728; Calibrated: 2022-05-10

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

Mode: UWB, CW, Antenna 0, Phablet SAR, Ch. 5, Front Side

Area Scan (102.0 x 187.0): Measurement grid: $dx=8.5$ mm, $dy=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=3.4$ mm, $dy=3.4$ mm, $dz=1.4$ mm; Graded

Ratio: 1.4

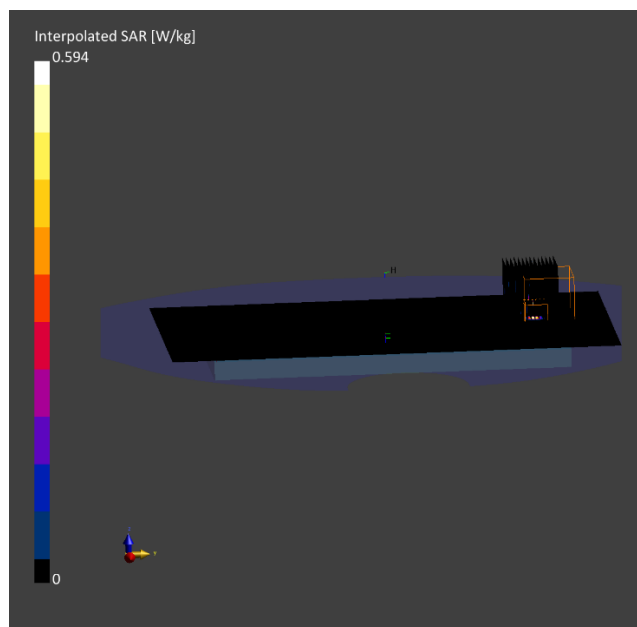
Reference Value = -0.00 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(10 g) = 0.002 W/kg; APD(4 cm²) = 0.042 W/m²

Smallest distance from peaks to all points 3 dB below is > 11.0 mm

Ratio of SAR at M2 to SAR at M1 = 31%



Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: 0303M

Communication System: UID:10731 - AAC, WLAN; MAIA: Y; Frequency: 6065.0 MHz

Medium: 6000 Head; Medium parameters used:

$f = 6065.0$ MHz; $\text{cond} = 5.48$ S/m; $\text{perm} = 34.1$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 05/26/2022; Ambient Temp: 21.9°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7551; ConvF:(5.54,5.54,5.54); Calibrated: 2021-10-26

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1449; Calibrated: 2021-09-15

Phantom: Twin-SAM V8.0 (Left); Serial: 1964

Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 80 MHz Bandwidth, UMPC Body SAR,
Ch. 23, Top Edge, 68.1 Mbps**

Area Scan (40.0 x 170.0): Measurement grid: $dx=5.0$ mm, $dy=8.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=3.4$ mm, $dy=3.4$ mm, $dz=1.4$ mm; Graded
Ratio: 1.4

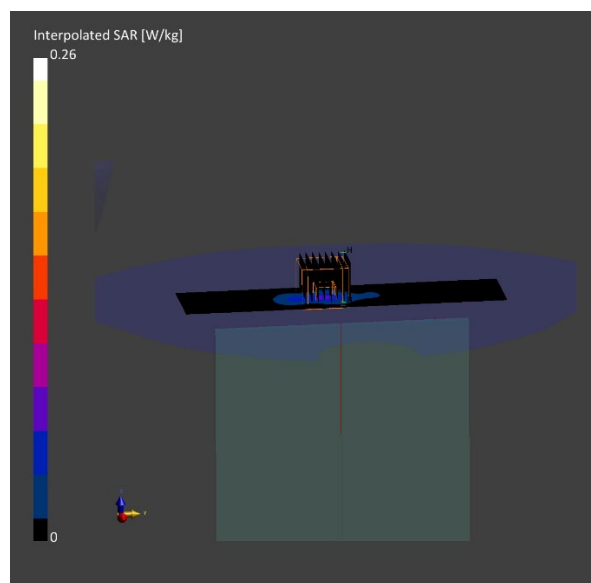
Reference Value = 0.05 W/kg; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.260 W/kg

SAR(1 g) = 0.059 W/kg; APD(4 cm²) = 0.444 W/m²

Smallest distance from peaks to all points 3 dB below is 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.5 %



Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: 0303M

Communication System: UID:10731 - AAC, WLAN; MAIA: Y; Frequency: 6065.0 MHz
Medium: 6000 Head; Medium parameters used:
f = 6065.0 MHz; cond = 5.54 S/m; perm = 34.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 0.00 mm

Test Date: 05/24/2022; Ambient Temp: 23.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7551; ConvF:(5.54,5.54,5.54); Calibrated: 2021-10-26
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1449; Calibrated: 2021-09-15
Phantom: Twin-SAM V8.0 Right; Serial: 1981
Measurement SW: DASY Module SAR V16.0.0.116

**Mode: IEEE 802.11ax, U-NII-5, MIMO, 80 MHz Bandwidth, UMPC Extremity
SAR, Ch. 23, Top Edge, 68.1 Mbps**

Area Scan (40.0 x 170.0): Measurement grid: dx=5.0 mm, dy=8.5 mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=3.0 mm, dy=3.0 mm, dz=1.2 mm; Graded
Ratio: 1.2

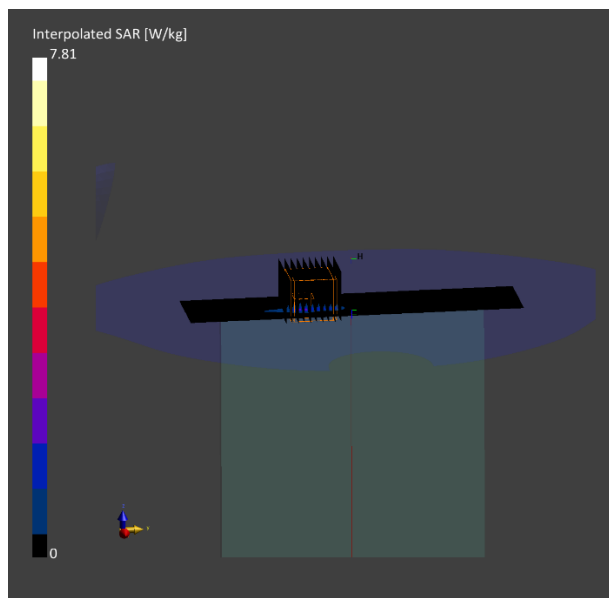
Reference Value = 1.01 W/kg; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 7.71 W/kg

SAR(10 g) = 0.294 W/kg; APD(4 cm²) = 6.92 W/m²

Smallest distance from peaks to all points 3 dB below is 3.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.6 %



Element

DUT: A3LSMF936U; Type: Portable Handset; Serial: VEI2719M

Communication System: UID:0 - -, CW; MAIA: Y; Frequency: 7987.2 MHz

Medium: 6000 Head; Medium parameters used:

$f = 7987.2$ MHz; $\text{cond} = 7.98$ S/m; $\text{perm} = 32.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/13/2022; Ambient Temp: 21.1°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3914; ConvF:(5.4,5.4,5.4); Calibrated: 2022-05-17

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn728; Calibrated: 2022-05-10

Phantom: Twin-SAM V5.0; Serial: 1759

Measurement SW: DASY Module SAR V16.0.0.116

Mode: UWB, CW, Antenna 1, UMPC Extremity SAR, Ch. 9, Back Side

Area Scan (169.0 x 195.0): Measurement grid: $dx=6.5$ mm, $dy=6.5$ mm

Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: $dx=2.7$ mm, $dy=2.7$ mm, $dz=1.3$ mm; Graded

Ratio: 1.4

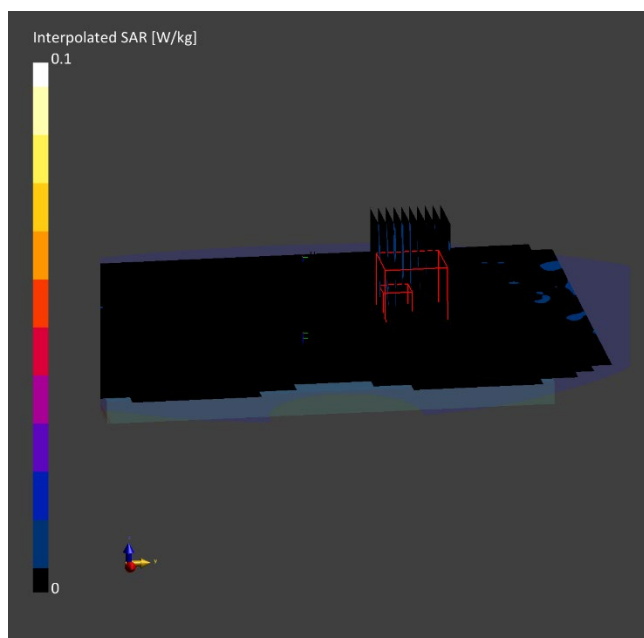
Reference Value = -0.00 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.016 W/kg

SAR(10 g) = 0 W/kg; APD(4 cm²) = 0.017 W/m²

Smallest distance from peaks to all points 3 dB below is > 11.0 mm

Ratio of SAR at M2 to SAR at M1 = 86.9 %



Element

Date: 05/19/2022

MIMO; Channel 23; 802.11ax; Closed

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF936U	0303M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	TOP	2.00	23	WLAN, 10731	6065.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9364, 06/21/2021	DAE4ip SN1638, 11/11/2021

Software Setup

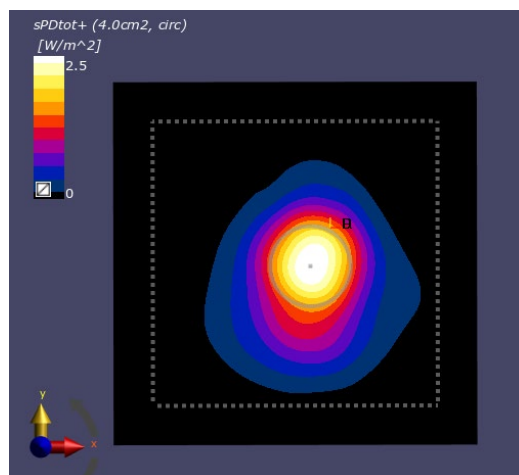
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100 x 100
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	2.50
pS _n avg [W/m ²]	2.11
E _{peak} [V/m]	68.6
Power Drift [dB]	0.05



Element

Date: 05/19/2022

MIMO; Channel 23; 802.11ax; Open

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF936U	0374M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group, UID	Frequency [MHz]
5G	TOP	2.00	71	WLAN, 10731	6065.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EImmWV3 - SN9407, 12/13/2021	DAE4ip SN1639, 01/21/2022

Software Setup

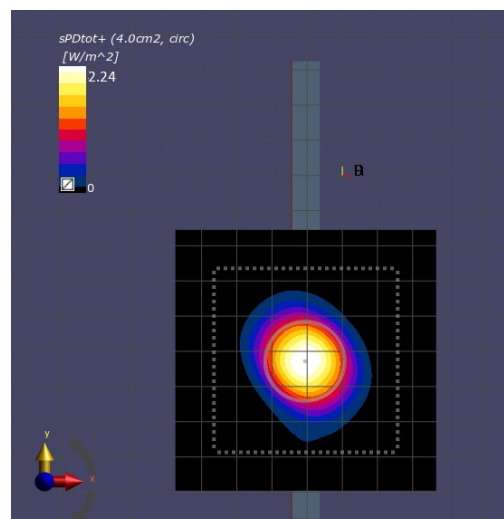
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100 x 100
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	2.24
pS _n avg [W/m ²]	1.86
E _{peak} [V/m]	65.5
Power Drift [dB]	0.20



Element

Date: 06/10/2022

Antenna 0; Channel 5; CW; Closed

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF936U	2719M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group	Frequency [MHz]
5G	FRONT	2.00	5	WLAN	6489.6

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EImmWV3 - SN9541, 05/19/2022	DAE4ip SN1639, 01/21/2022

Software Setup

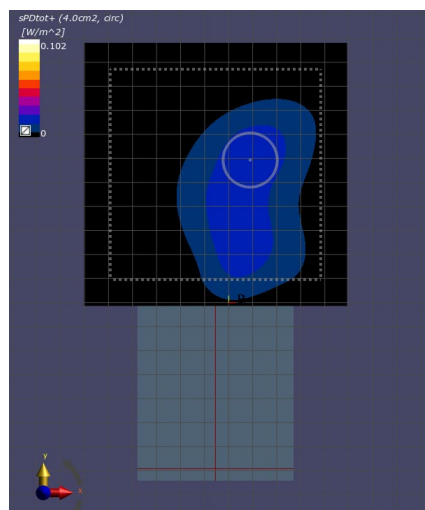
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100 x 100
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	0.102
pS _n avg [W/m ²]	0.097
E _{peak} [V/m]	7.78
Power Drift [dB]	0.00



Element

Date: 06/13/2022

Antenna 0; Channel 9; CW; Open

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF936U	2719M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Channel	Group	Frequency [MHz]
5G	TOP	2.00	9	WLAN	7987.2

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EImmWV3 - SN9541, 05/19/2022	DAE4ip SN1639, 01/21/2022

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100 x 100
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	0.127
pS _n avg [W/m ²]	0.107
E _{peak} [V/m]	9.41
Power Drift [dB]	0.00

