

Test Laboratory: BTL Inc.

Date: 2024/2/1

System Check_H2450_0201

DUT: Dipole 2450 MHz D2450V2;SN:919;

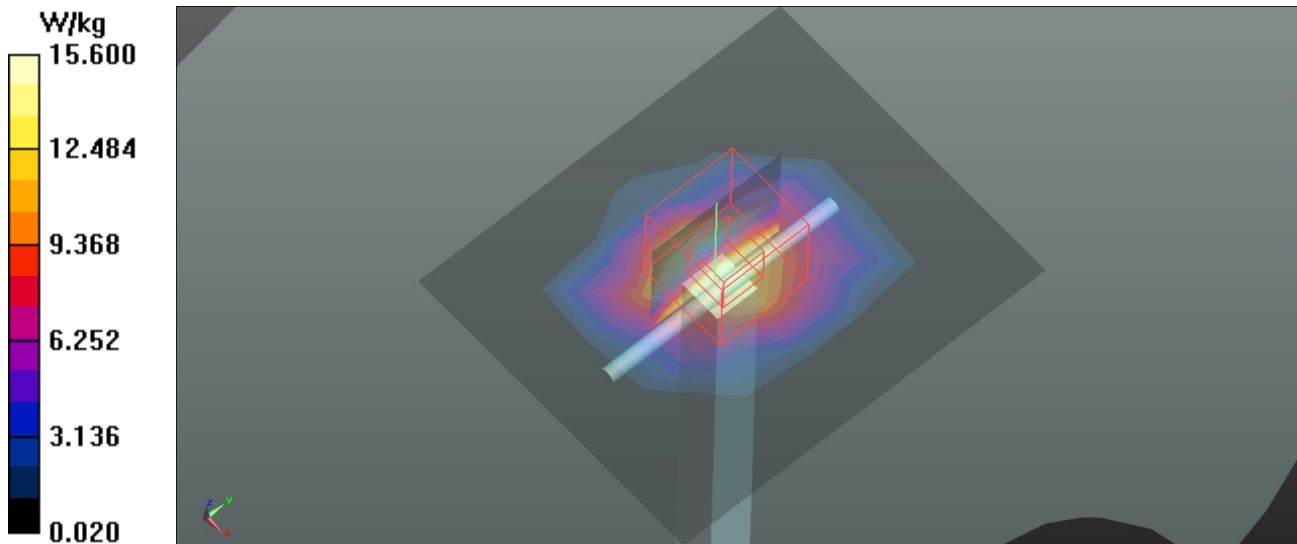
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 39.968$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(8.33, 8.33, 8.33) @ 2450 MHz; Calibrated: 2023/10/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1717; Calibrated: 2023/4/10
- Phantom: SAM Right v5.0; Type: QD000P40CC; Serial: TP:1469
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (8x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm
Maximum value of SAR (measured) = 15.6 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 112.9 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 27.3 W/kg
SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.74 W/kg
Maximum value of SAR (measured) = 21.2 W/kg



Test Laboratory: BTL Inc.

Date: 2024/2/22

System Check_H5250_0222**DUT: Dipole D5GHzV2;SN:1160;**

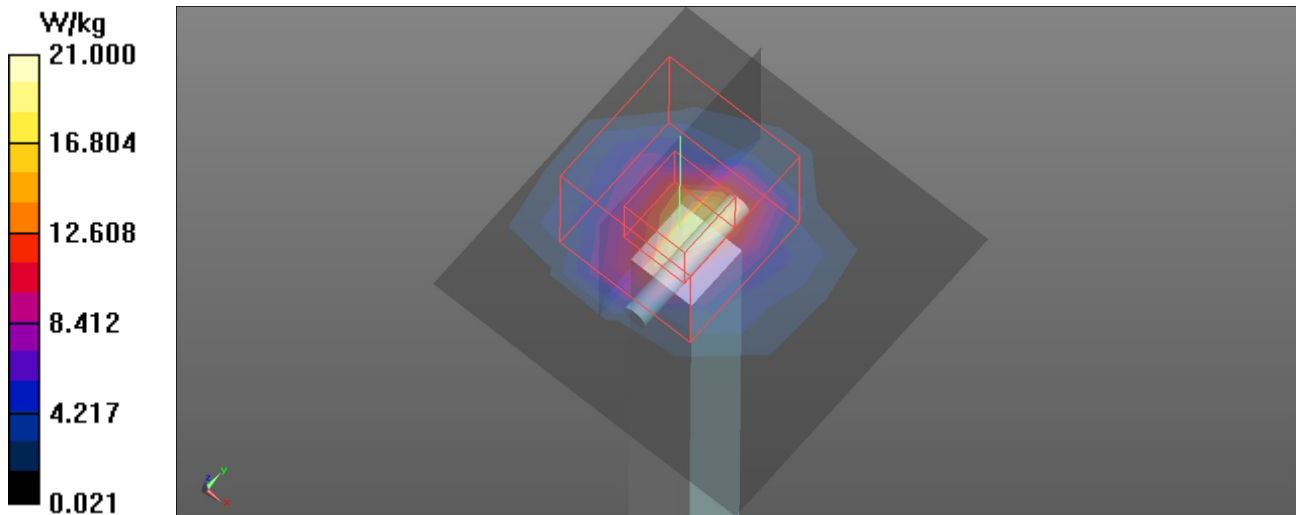
Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.758$ S/m; $\epsilon_r = 35.487$; $\rho = 1000$ kg/m³
Ambient Temperature: 22.6°C; Liquid Temperature: 21.4 °C

DASY Configuration:

- Probe: EX3DV4-SN7693; ConvF(5.56, 5.56, 5.56) @ 5250 MHz; Calibrated: 2023/10/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1717; Calibrated: 2023/4/10
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 17.8 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 64.82 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 39.8 W/kg
SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 21.0 W/kg



Test Laboratory: BTL Inc.

Date: 2024/2/23

System Check_H5600_0223

DUT: Dipole D5GHzV2;SN:1160;

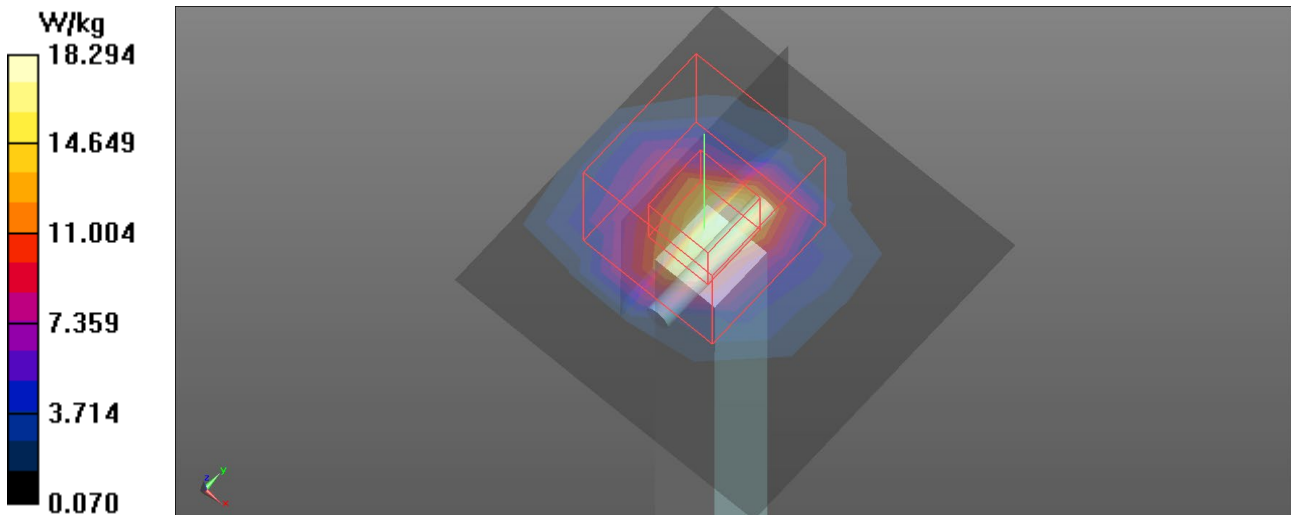
Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.254$ S/m; $\epsilon_r = 34.995$; $\rho = 1000$ kg/m³
Ambient Temperature: 22.8 °C; Liquid Temperature: 21.7 °C

DASY Configuration:

- Probe: EX3DV4 - SN7693; ConvF(5.56, 5.56, 5.56) @ 5250 MHz; Calibrated: 2023/10/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1717; Calibrated: 2023/4/10
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 18.3 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 55.86 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 45.7 W/kg
SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.26 W/kg
Maximum value of SAR (measured) = 22.5 W/kg



Test Laboratory: BTL Inc.

Date: 2024/3/6

System Check_H5750_0306**DUT: Dipole D5GHzV2;SN:1160;**

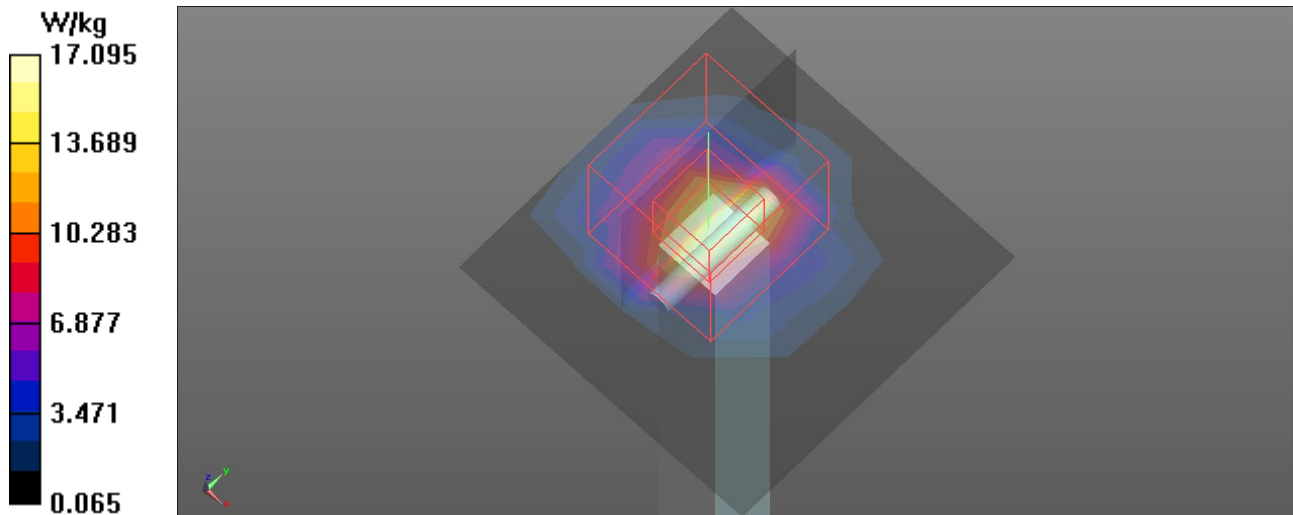
Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5750$ MHz; $\sigma = 5.217$ S/m; $\epsilon_r = 34.363$; $\rho = 1000$ kg/m³
Ambient Temperature: 22.5 °C; Liquid Temperature: 21.9°C

DASY Configuration:

- Probe: EX3DV4-SN7693; ConvF(5.56, 5.56, 5.56) @ 5250 MHz; Calibrated: 2023/10/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1717; Calibrated: 2023/4/10
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 17.1 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 54.39 V/m; Power Drift = 0.58 dB
Peak SAR (extrapolated) = 43.1 W/kg
SAR(1 g) = 7.4 W/kg; SAR(10 g) = 2.08 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



Test Laboratory: BTL Inc.

Date: 2024/2/29

System Check_H6500_0229**DUT: Dipole D6.5GHzV2;SN:1052;**

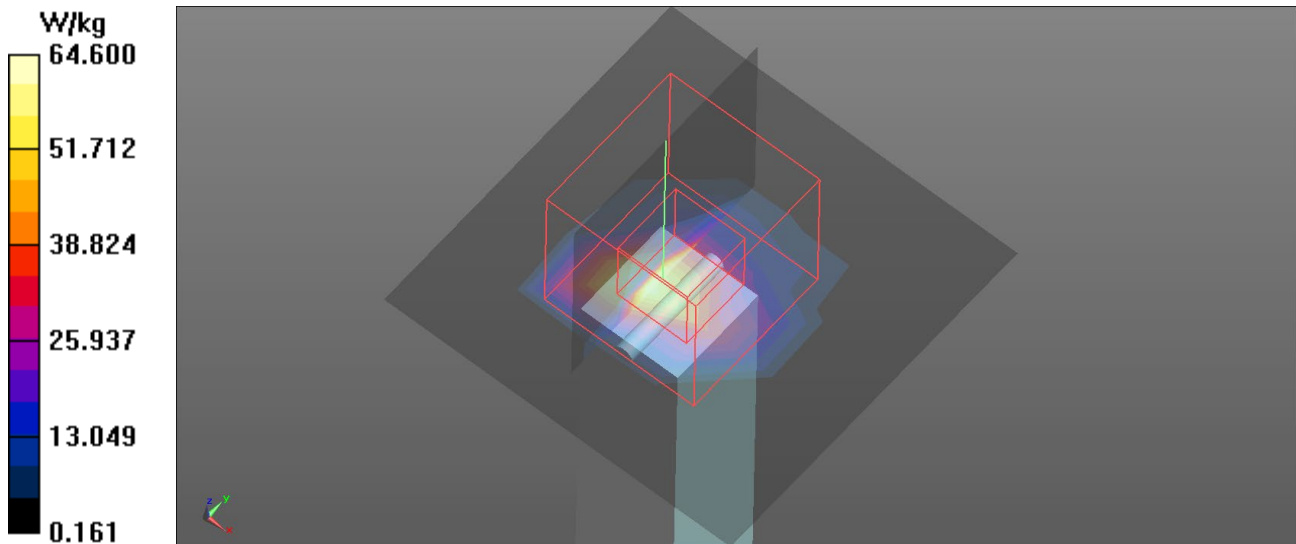
Communication System: UID 0, CW (0); Frequency: 6500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 6500$ MHz; $\sigma = 5.872$ S/m; $\epsilon_r = 33.645$; $\rho = 1000$ kg/m³
Ambient Temperature: 22.9 °C; Liquid Temperature: 22.1 °C

DASY Configuration:

- Probe: EX3DV4-SN7693; ConvF(5.8, 5.8, 5.8) @ 6500 MHz; Calibrated: 2023/10/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE4 Sn1717; Calibrated: 2023/4/10
- Phantom: ELI v5.0_Left; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Area Scan (6x6x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 64.6 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
Reference Value = 126.6 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 206 W/kg
SAR(1 g) = 27.1 W/kg; SAR(10 g) = 5.69 W/kg
Maximum value of SAR (measured) = 94.9 W/kg



Measurement Report for Device, , UID 0 -, Channel 0 (6500.0MHz)

Device under Test Properties

Model, Manufacturer Device,	Dimensions [mm] 50.0 x 10.0 x 8.0	IMEI	DUT Type Dipole
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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	,		, 0--	6500.0, 0	5.8	5.91	33.4

Hardware Setup

Phantom Twin-SAM V8.0 (30deg probe tilt) - 2081	TSL, Measured Date HBBL-695-10000	Probe, Calibration Date EX3DV4 - SN7693, 2023-10-31	DAE, Calibration Date DAE4 Sn905, 2023-06-26
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Scan Setup

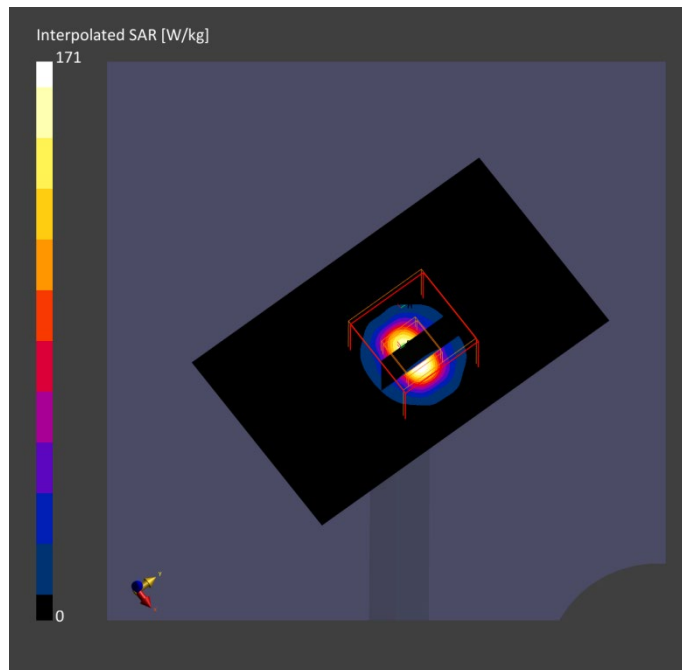
	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection Scan Method	VMS + 6p Measured	VMS + 6p Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-04-24	2024-04-24
psSAR1g [W/kg]	21.6	28.3
psSAR10g [W/kg]	4.77	5.40
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		4.4

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Measurement Report for Device, FRONT, Validation band, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Model, Manufacturer , Device	Dimensions [mm] 100.0 x 100.0 x 172.0	IMEI	DUT Type 10G Verification Source
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Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom mmWave- xxxx	Medium ---Air	Probe, Calibration Date EUmmWV4 - SN9626_F1-55GHz, 2023-05-17	DAE, Calibration Date DAE4 Sn1390, 2023-11-20
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Scan Setup

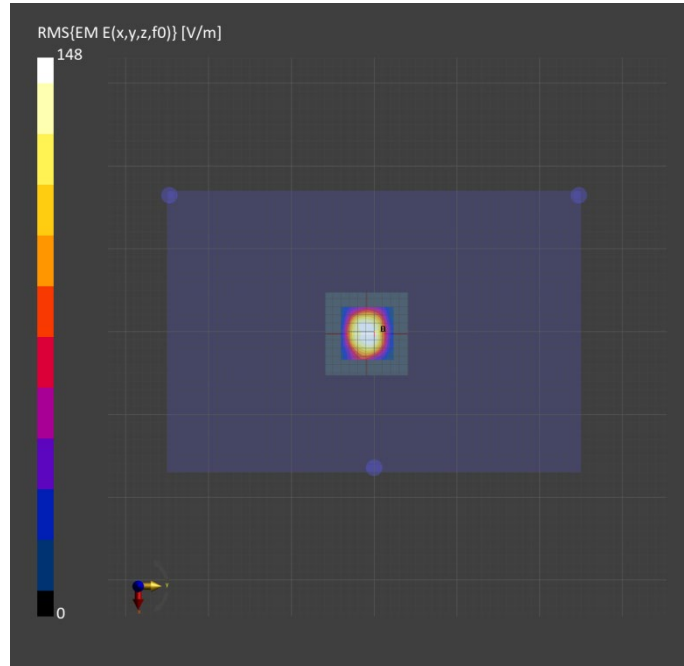
	5G Scan	
Grid Extents [mm]	60.0 x	60.0
Grid Steps [lambda]	0.125 x	0.125
Sensor Surface [mm]		10.0
MAIA		N/A

Measurement Results

	5G Scan
Date	2024-02-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	52.7
psPDtot+ [W/m ²]	53.9
psPDmod+ [W/m ²]	54.2
E _{max} [V/m]	148
Power Drift [dB]	-0.04

Warning(s) / Error(s)

Details	5G Scan
Warning(s)	
Error(s)	



Measurement Report for Device, FRONT, Validation band, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Model, Manufacturer 1041, Device	Dimensions [mm] 100.0 x 100.0 x 172.0	IMEI	DUT Type Verification Source
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Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom mmWave- xxxx	Medium Air-	Probe, Calibration Date EUmmWV4 - SN9626_F1-55GHz, 2023-05-17	DAE, Calibration Date DAE4 Sn905, 2023-06-26
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Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

	5G Scan
Date	2024-04-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	51.6
psPDtot+ [W/m ²]	51.8
psPDmod+ [W/m ²]	52.1
E _{max} [V/m]	147
Power Drift [dB]	-0.08

Warning(s) / Error(s)

Details	5G Scan
Warning(s)	
Error(s)	

