

This is Appendix for Test report No. 14993586H-A.

Appendix B: SAR Measurement data

Plot 1 WLAN

UL Japan, Ltd. ISE Laboratory SAR#2

Date/Time:2023-12-15, 11:50

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	EDGE BOTTOM, 0.00	WLAN 2.4GHz	WLAN, 10415-AAA	2442.000, 7	7.69	1.73	39.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1207	HBBL-600-10000 2023-Dec-14, 2023-Dec-14	EX3DV4 - SN3917, 2023-05-23	DAE4 Sn1372, 2023-03-16

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	340.0 x 400.0	30.0 x 30.0 x 60.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.024	0.023
psSAR10g [W/Kg]	0.014	0.013
Power Drift [dB]	-0.35	0.06
M2/M1 [%]		83.6
Dist 3dB Peak [mm]		19.5



Plot 2 WLAN

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 0.00	U-NII-1, U-NII-2A	WLAN, 10417-AAD	5260.000, 52	5.19	4.78	37.2

Hardware Setup

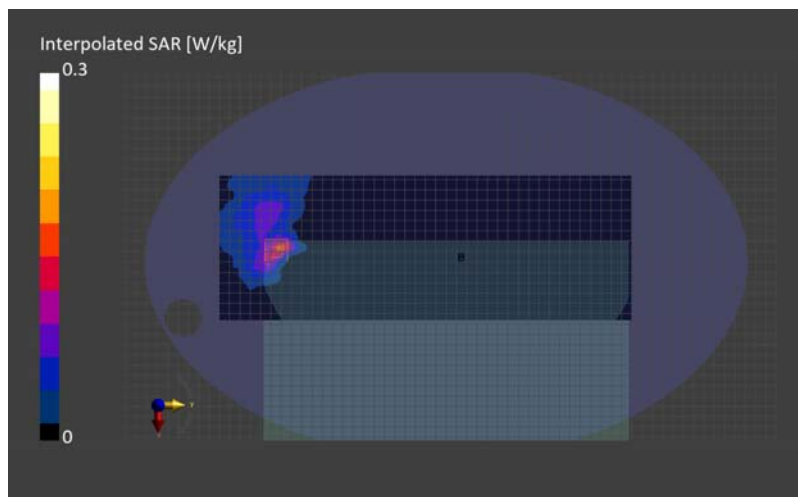
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 2023-Dec-15, 2023-Dec-15	EX3DV4 - SN3825, 2023-07-12	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 x 400.0	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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.120	0.129
psSAR10g [W/Kg]	0.045	0.040
Power Drift [dB]	N/A	-0.16
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		7.2



Plot 3 WLAN

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	EDGE BOTTOM, 0.00	U-NII-2C Standalone	WLAN, 10544-AAD	5690.000, 138	4.7	5.28	36.5

Hardware Setup

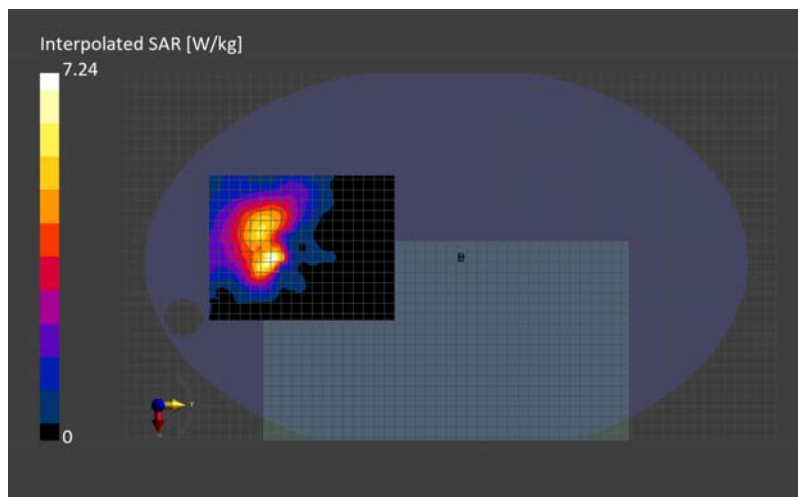
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 2023-Dec-15, 2023-Dec-15	EX3DV4 - SN3825, 2023-07-12	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.281	0.304
psSAR10g [W/Kg]	0.111	0.102
Power Drift [dB]	-0.19	-0.05
M2/M1 [%]		61.9
Dist 3dB Peak [mm]		6.9



Plot 4 WLAN

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	EDGE BOTTOM, 0.00	WLAN 5GHz	WLAN, 10534-AAD	5795.000, 159	4.72	5.40	36.4

Hardware Setup

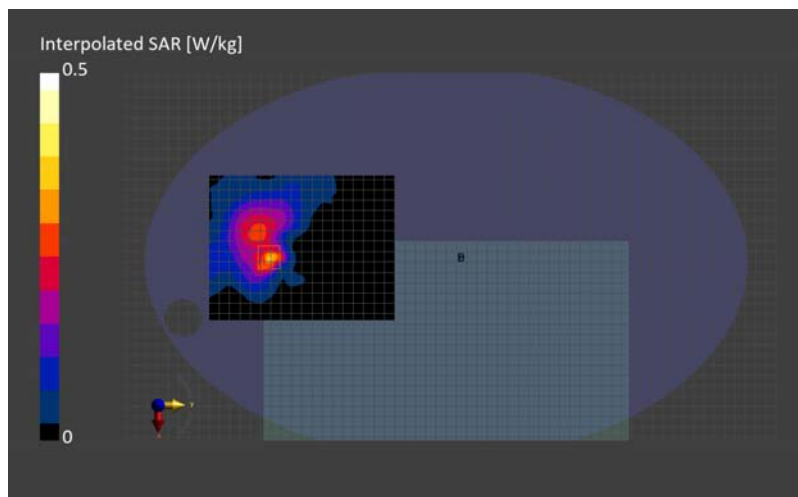
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 2023-Dec-15, 2023-Dec-15	EX3DV4 - SN3825, 2023-07-12	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.254	0.261
psSAR10g [W/Kg]	0.097	0.090
Power Drift [dB]	-0.09	0.17
M2/M1 [%]		61.0
Dist 3dB Peak [mm]		6.5



Plot 5 WLAN

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	EDGE BOTTOM, 0.00	Custom Band	CW, 10534-AAD	5835.000, 5835000	4.72	5.39	36.3

Hardware Setup

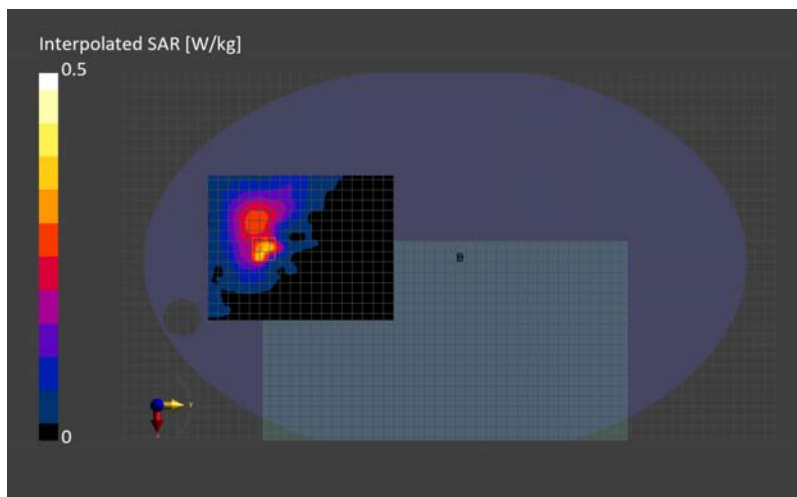
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1203	HBBL-600-10000 2023-Dec-15, 2023-Dec-15	EX3DV4 - SN3825, 2023-07-12	DAE4 Sn1369, 2023-05-23

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	140.0 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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.268	0.288
psSAR10g [W/Kg]	0.107	0.103
Power Drift [dB]	0.18	0.14
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		6.9



Plot 6 WLAN

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
,	56.0 x 354.0 x 293.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE BOTTOM, 2.00	Custom Band	CW, 11026-AAA	6425.0, 6425000	1.0

Hardware Setup

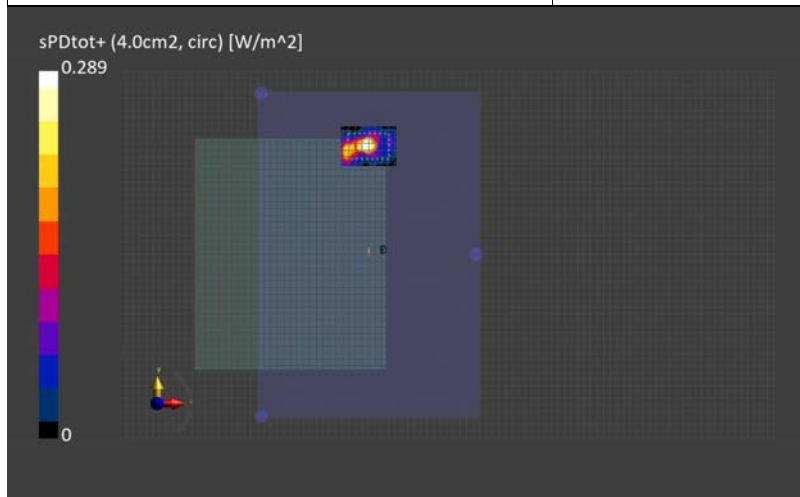
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55GHz, 2023-11-07	DAE4 Sn1372, 2023-03-16

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	80.0 x 60.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2024-01-08, 11:03
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.134
psPDtot+ [W/m ²]	0.289
psPDmod+ [W/m ²]	0.670
E _{max} [V/m]	16.5
Power Drift [dB]	-0.10



Plot 7 WLAN
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
,	56.0 x 354.0 x 293.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE BOTTOM, 2.00	U-NII-6	WLAN, 10554-AAE	6505.0, 111	1.0

Hardware Setup

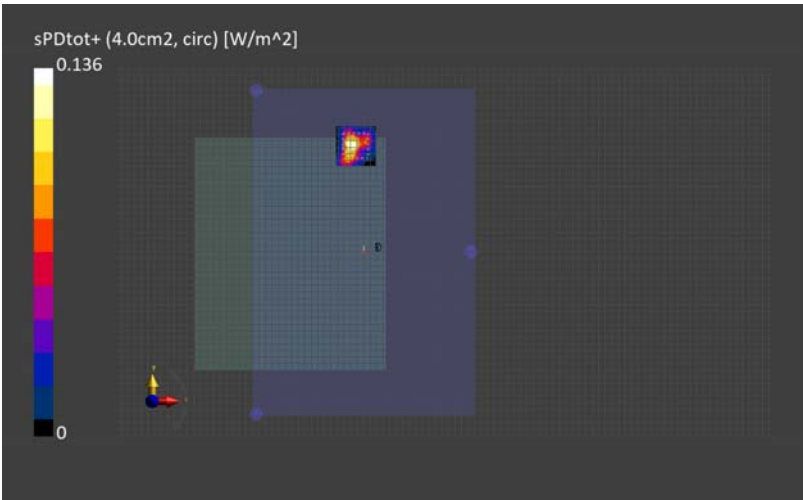
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55GHz, 2023-11-07	DAE4 Sn1372, 2023-03-16

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2024-01-08, 16:23
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.056
psPDtot+ [W/m²]	0.136
psPDmod+ [W/m²]	0.253
E _{max} [V/m]	9.16
Power Drift [dB]	-0.15



Plot 8 WLAN
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
,	56.0 x 354.0 x 293.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE BOTTOM, 2.00	U-NII-7	WLAN, 11026-AAA	6585.0, 127	1.0

Hardware Setup

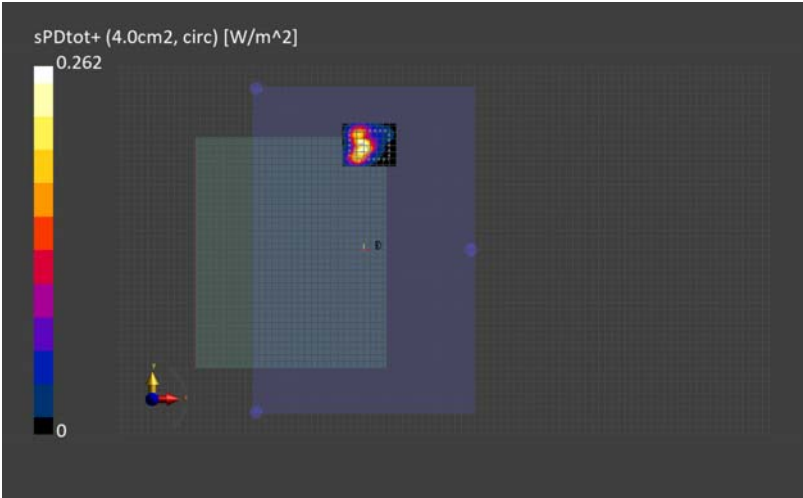
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55GHz, 2023-11-07	DAE4 Sn1372, 2023-03-16

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	80.0 x 60.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2024-01-09, 11:17
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	0.118
psPDtot+ [W/m²]	0.262
psPDmod+ [W/m²]	0.549
E _{max} [V/m]	14.4
Power Drift [dB]	-0.15



Plot 9 WLAN

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
,	56.0 x 354.0 x 293.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE BOTTOM, 2.00	Custom Band	CW, 11026-AAA	6905.0, 6905000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1038	Air -	EUmmWV4 - SN9450_F1-55GHz, 2023-11-07	DAE4 Sn1372, 2023-03-16

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	80.0 x 60.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	Y

Measurement Results

Scan Type	5G Scan
Date	2024-01-09, 15:09
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.104
psPDtot+ [W/m ²]	0.124
psPDmod+ [W/m ²]	0.126
E _{max} [V/m]	8.03
Power Drift [dB]	-0.14

