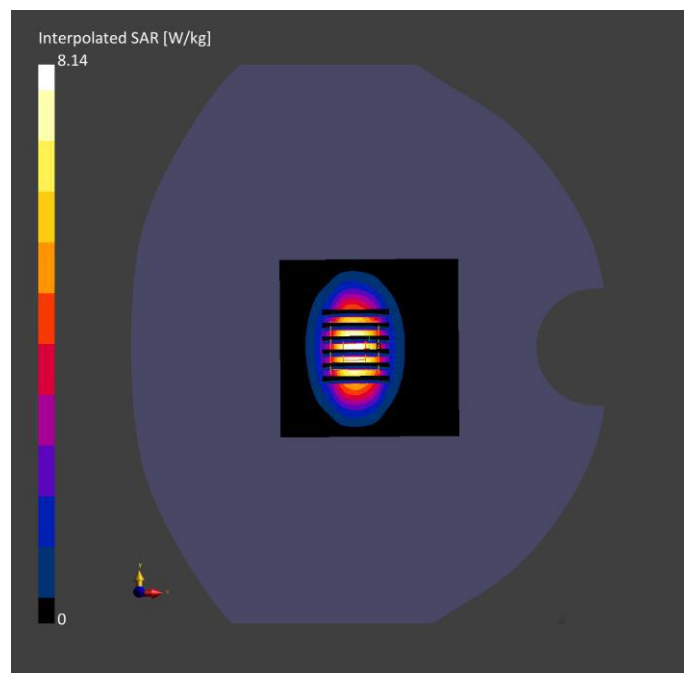




System Performance Check Data (1900MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1900V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

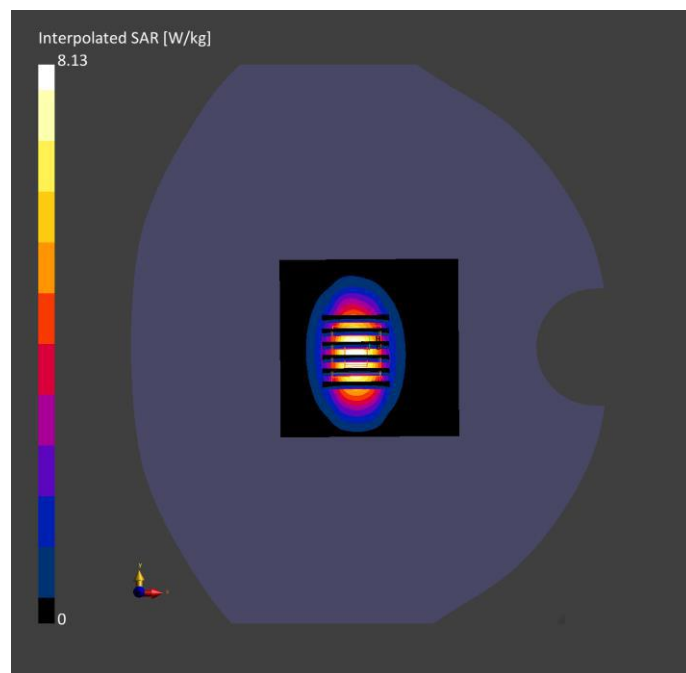
Exposure Conditions

Phantom Section , TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D190 0	CW, 0--	1900.0, 50	8.40	1.39	40.3	21.8	20.9

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 14	2023-03- 14	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2023-03-14	2023-03-14
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	4.21	4.07
Sensor	3.0	1.4	psSAR10g [W/kg]	2.24	2.11
Surface [mm]			Power Drift [dB]	-0.16	-0.03
Graded Grid	Yes	Yes	Power	Disabled	Disabled
Grading Ratio	1.5	1.5	Scaling		
MAIA	N/A	N/A	Scaling		
Surface	VMS + 6p	VMS + 6p	Factor [dB]		
Detection			TSL	No correction	No correction
Scan Method	Measured	Measured	Correction		
			M2/M1 [%]		81.6
			Dist 3dB Peak [mm]		9.6



System Performance Check Data (1900MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1900V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

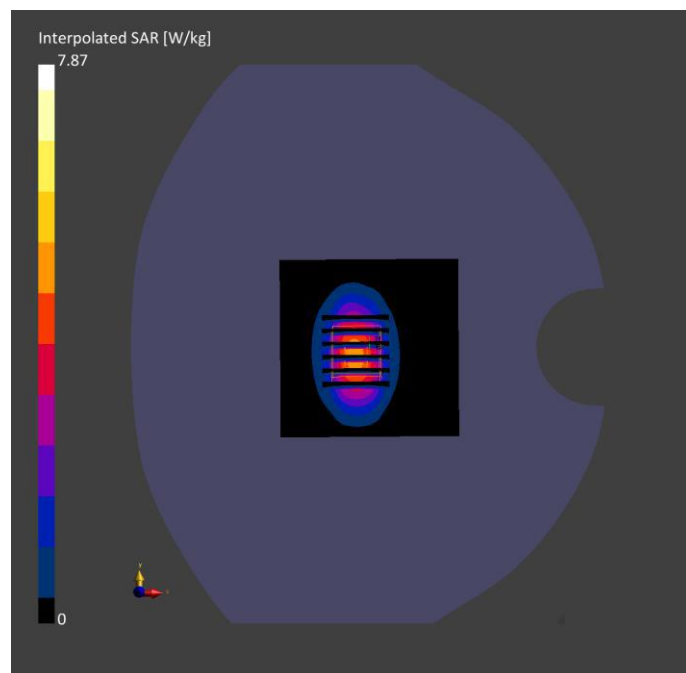
Exposure Conditions

Phantom Section , TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D190 0	CW, 0--	1900.0, 50	8.40	1.38	39.3	22.0	21.0

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 15	2023-03- 15	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2023-03-15	2023-03-15
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	4.08	4.13
Sensor	3.0	1.4	psSAR10g [W/kg]	2.17	1.98
Surface [mm]			Power Drift	-0.08	0.01
Graded Grid	Yes	Yes	[dB]		
Grading Ratio	1.5	1.5	Power	Disabled	Disabled
MAIA	N/A	N/A	Scaling		
Surface	VMS + 6p	VMS + 6p	Scaling		
Detection			Factor [dB]		
Scan Method	Measured	Measured	TSL	No correction	No correction
			Correction		
			M2/M1 [%]		82.0
			Dist 3dB Peak [mm]		9.6



System Performance Check Data (1900MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1900V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

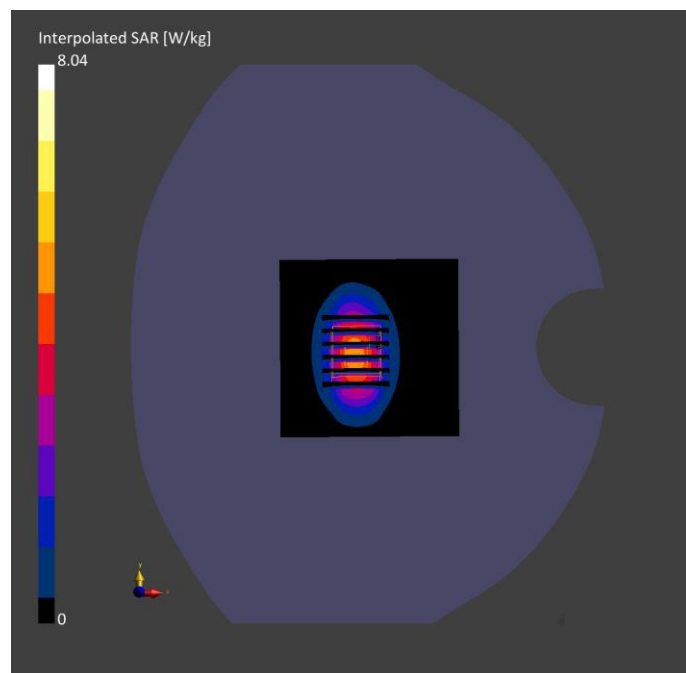
Exposure Conditions

Phantom Section , TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D190 0	CW, 0--	1900.0, 50	8.40	1.38	39.8	22.5	21.3

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 16	2023-03- 16	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2023-03-16	2023-03-16
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	4.21	3.88
Sensor	3.0	1.4	psSAR10g [W/kg]	2.24	1.95
Surface [mm]			Power Drift [dB]	-0.16	-0.03
Graded Grid	Yes	Yes	Power	Disabled	Disabled
Grading Ratio	1.5	1.5	Scaling		
MAIA	N/A	N/A	Scaling		
Surface	VMS + 6p	VMS + 6p	Factor [dB]		
Detection			TSL	No correction	No correction
Scan Method	Measured	Measured	Correction		
			M2/M1 [%]		81.6
			Dist 3dB Peak [mm]		9.6



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.96	37.9	21.9	21.1

Hardware Setup

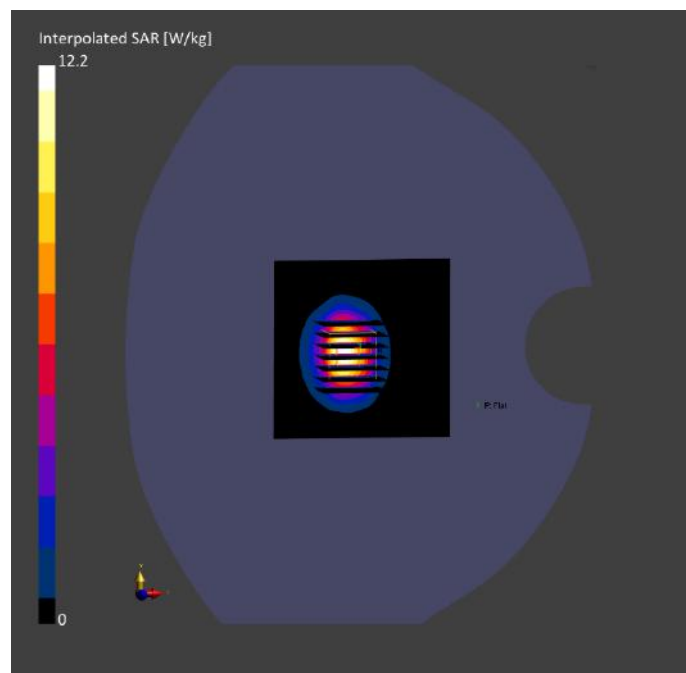
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-17	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-17	2023-03-17
psSAR1g [W/kg]	5.71	5.59
psSAR10g [W/kg]	2.60	2.45
Power Drift [dB]	0.00	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.0



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.91	39.3	22.4	21.1

Hardware Setup

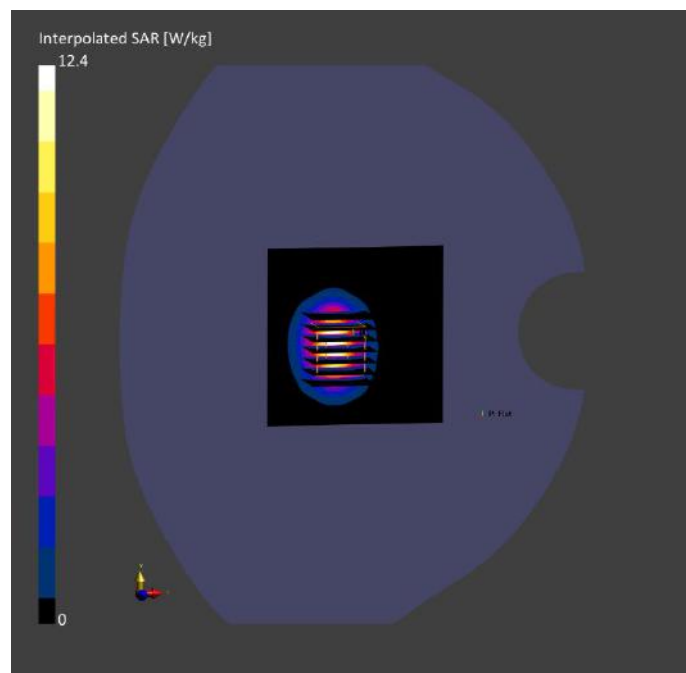
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-18	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-18	2023-03-18
psSAR1g [W/kg]	5.86	5.77
psSAR10g [W/kg]	2.63	2.55
Power Drift [dB]	0.00	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		8.9



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.96	39.1	22.3	21.3

Hardware Setup

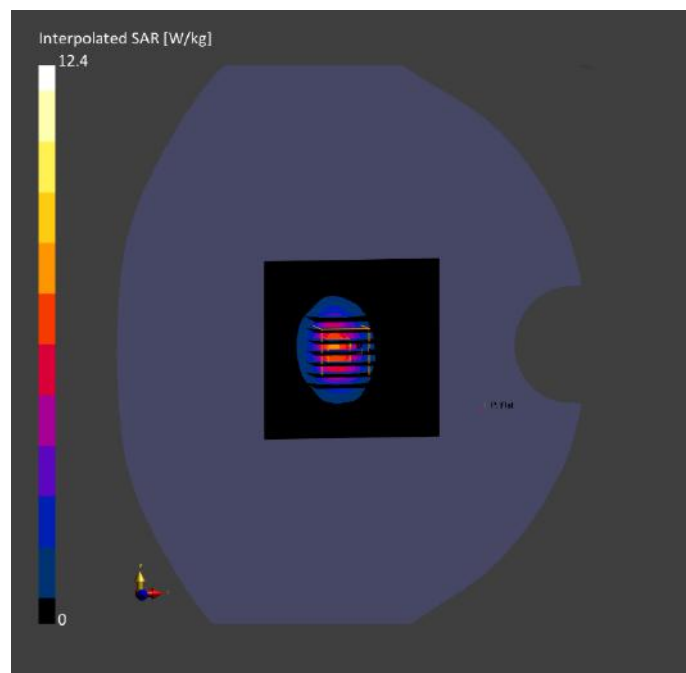
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-19	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-19	2023-03-19
psSAR1g [W/kg]	5.81	5.83
psSAR10g [W/kg]	2.65	2.44
Power Drift [dB]	0.01	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.0



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	2.01	38.6	22.2	21.1

Hardware Setup

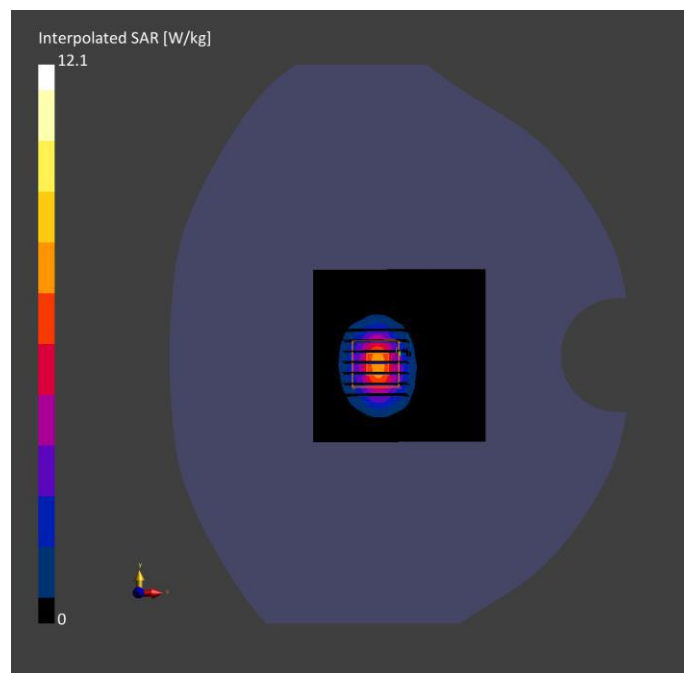
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-20	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-20	2023-03-20
psSAR1g [W/kg]	5.71	5.94
psSAR10g [W/kg]	2.60	2.57
Power Drift [dB]	0.00	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.1
Dist 3dB Peak [mm]		9.2



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.97	38.3	22.2	21.2

Hardware Setup

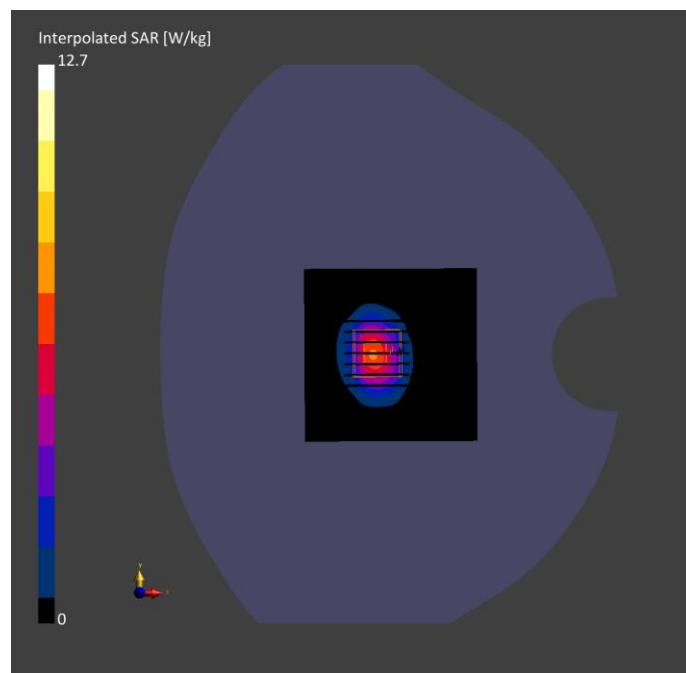
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-21	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-21	2023-03-21
psSAR1g [W/kg]	5.86	5.41
psSAR10g [W/kg]	2.63	2.38
Power Drift [dB]	0.00	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		8.6



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.91	39.0	21.8	20.9

Hardware Setup

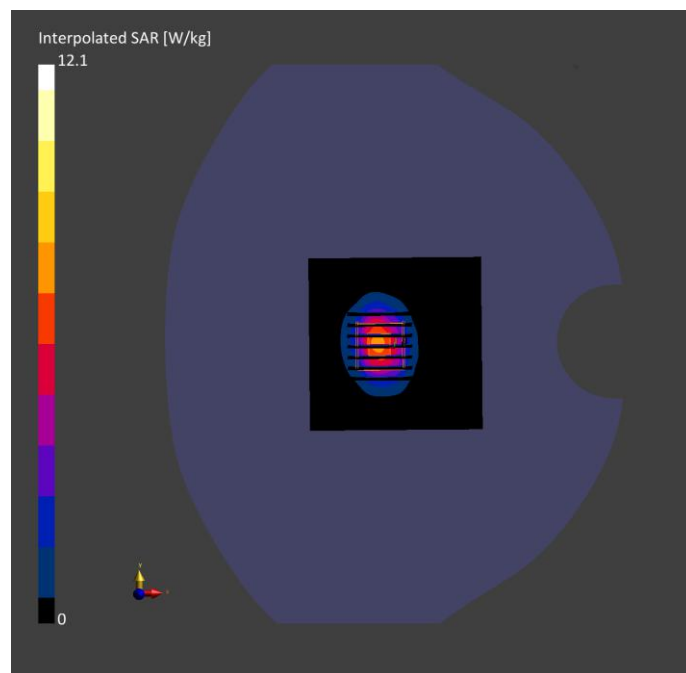
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-22	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-22	2023-03-22
psSAR1g [W/kg]	5.81	5.61
psSAR10g [W/kg]	2.65	2.39
Power Drift [dB]	0.01	0.08
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.2
Dist 3dB Peak [mm]		9.1



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.99	37.7	22.3	21.4

Hardware Setup

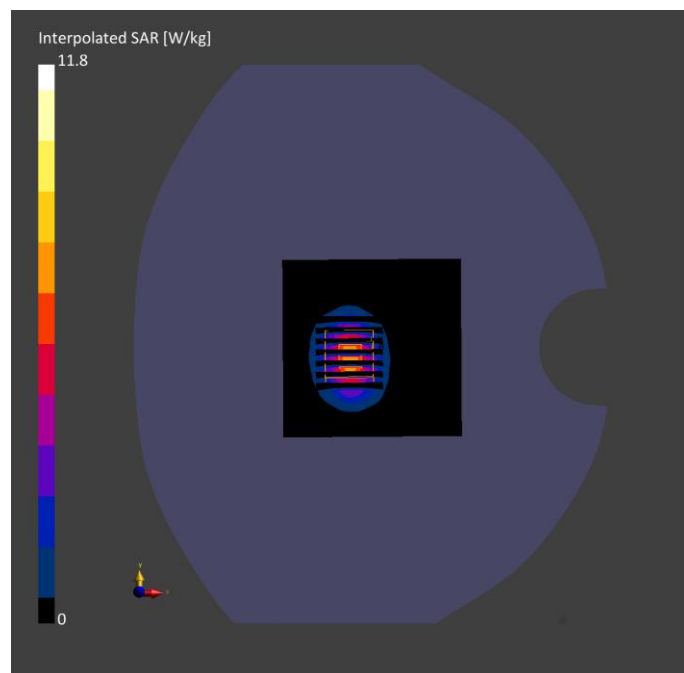
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-23	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-23	2023-03-23
psSAR1g [W/kg]	5.71	5.67
psSAR10g [W/kg]	2.56	2.49
Power Drift [dB]	0.04	0.09
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		9.3



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

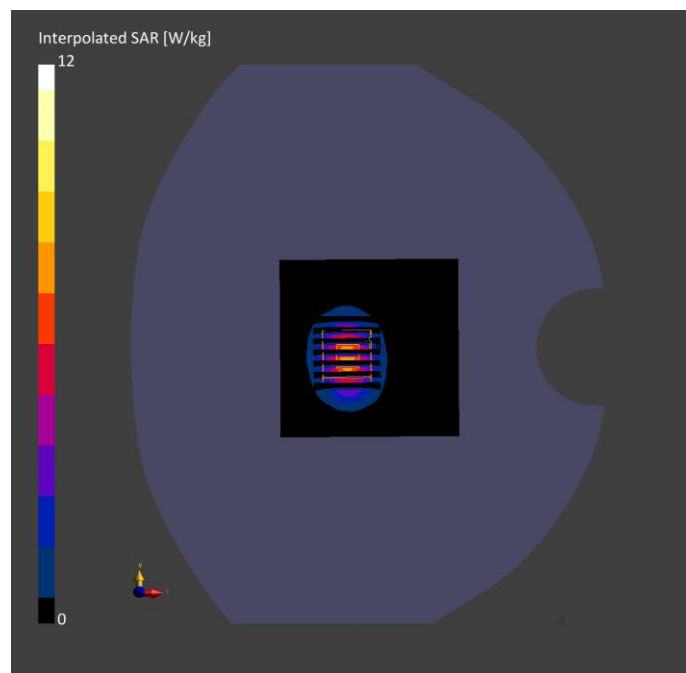
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.97	39.1	221.	21.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-24	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2023-03-24	2023-03-24
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.85	5.74
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	2.66	2.56
Graded Grid	Yes	Yes	Power Drift [dB]	-0.01	0.01
Grading Ratio	1.5	1.5	Power	Disabled	Disabled
MAIA	N/A	N/A	Scaling		
Surface Detection	VMS + 6p	VMS + 6p	Scaling Factor [dB]		
Scan Method	Measured	Measured	TSL Correction	No correction	No correction
			M2/M1 [%]		79.3
			Dist 3dB Peak [mm]		9.0



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.99	37.8	22.1	21.0

Hardware Setup

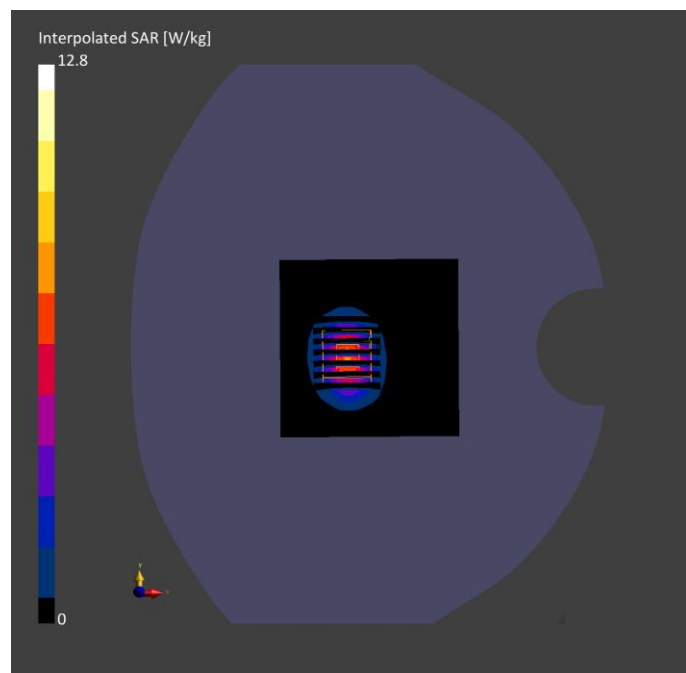
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-25	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-25	2023-03-25
psSAR1g [W/kg]	5.88	5.70
psSAR10g [W/kg]	2.66	2.48
Power Drift [dB]	-0.04	-0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.5
Dist 3dB Peak [mm]		9.5



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.96	39.6	22.3	21.2

Hardware Setup

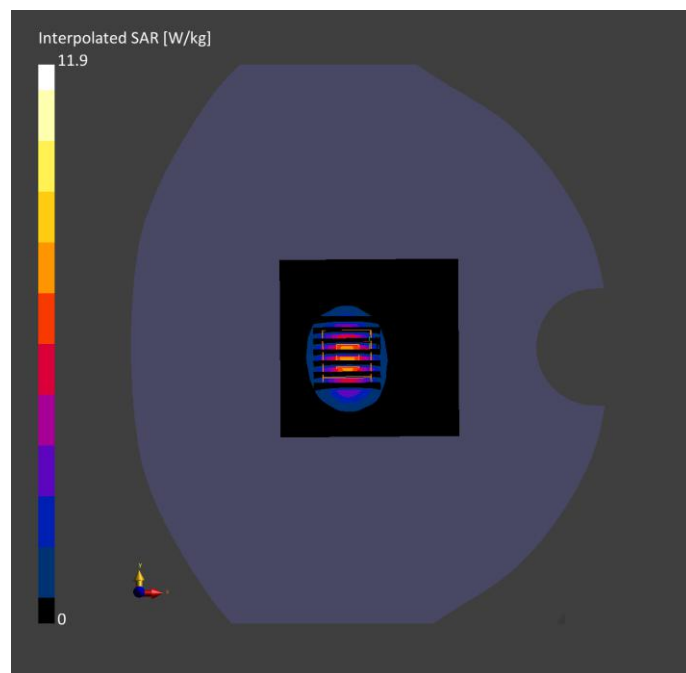
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-26	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-26	2023-03-26
psSAR1g [W/kg]	5.80	5.65
psSAR10g [W/kg]	2.69	2.40
Power Drift [dB]	0.06	0.03
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.6
Dist 3dB Peak [mm]		9.0



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.99	39.2	220	20.9

Hardware Setup

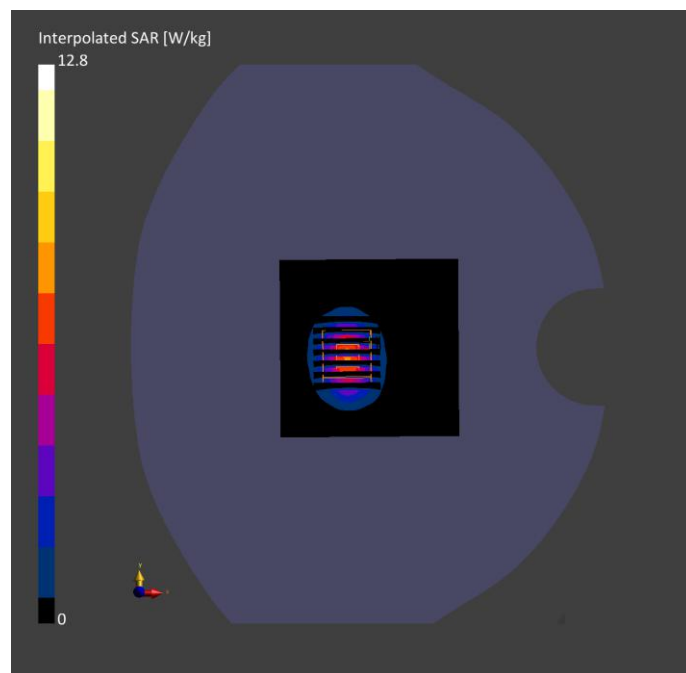
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-27	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-27	2023-03-27
psSAR1g [W/kg]	5.90	5.84
psSAR10g [W/kg]	2.69	2.52
Power Drift [dB]	-0.10	-0.13
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.5
Dist 3dB Peak [mm]		9.4



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.97	40.3	22.1	20.9

Hardware Setup

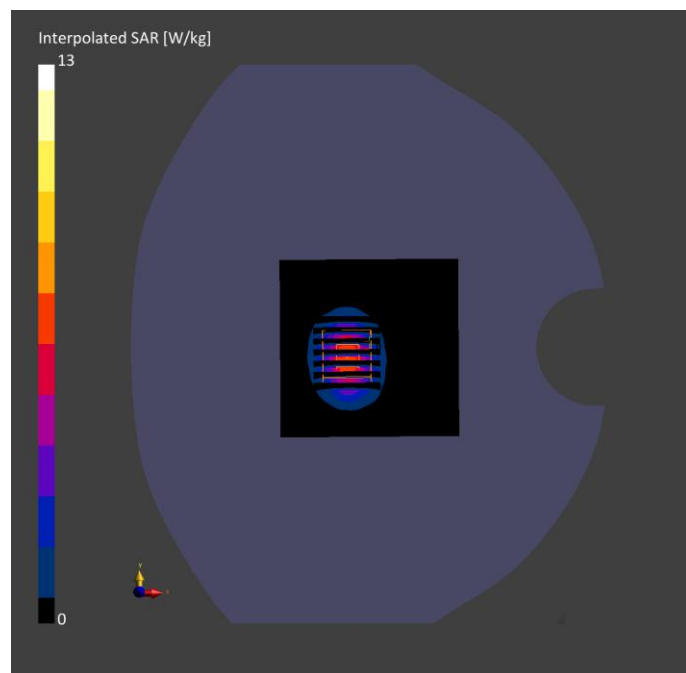
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-28	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-28	2023-03-28
psSAR1g [W/kg]	5.71	5.91
psSAR10g [W/kg]	2.53	2.60
Power Drift [dB]	0.10	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		9.9



System Performance Check Data (5250MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		Validation on band	CW, 0--	5250.0, 5250	5.45	4.70	35.8	22.4	21.4

Hardware Setup

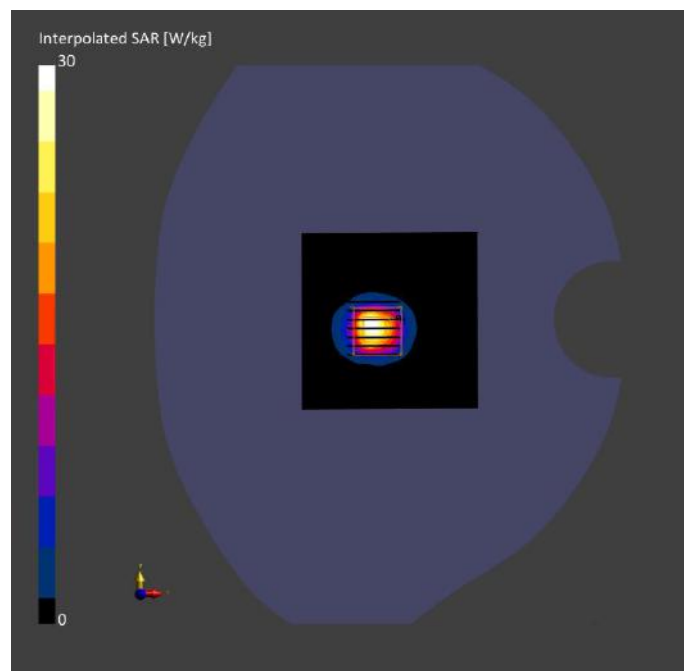
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-03-29	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-29	2023-03-29
psSAR1g [W/kg]	7.80	7.85
psSAR10g [W/kg]	2.16	2.24
Power Drift [dB]	-0.14	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.6
Dist 3dB Peak [mm]		6.8



System Performance Check Data (5250MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		Validation on band	CW, 0--	5250.0, 5250	5.45	4.73	36.1	22.2	21.3

Hardware Setup

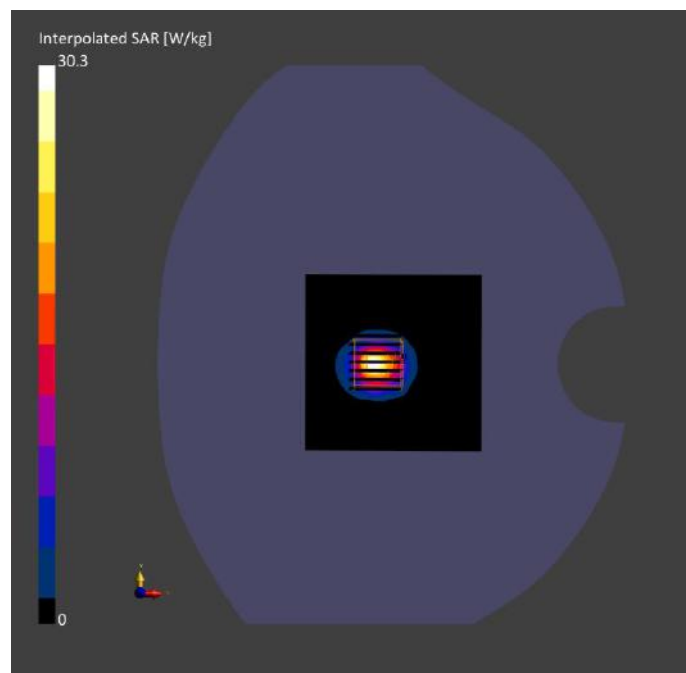
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-30	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-30	2023-03-30
psSAR1g [W/kg]	7.42	8.07
psSAR10g [W/kg]	2.21	2.11
Power Drift [dB]	0.00	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.5
Dist 3dB Peak [mm]		6.9



System Performance Check Data (5600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		Validation on band	CW, 0--	5600.0, 5600	4.9	5.06	35.3	22.2	21.1

Hardware Setup

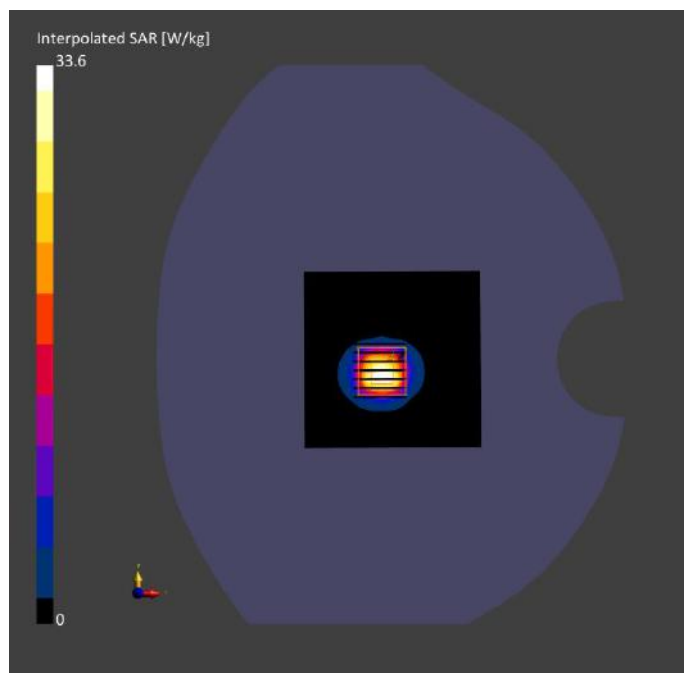
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-30	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-30	2023-03-30
psSAR1g [W/kg]	7.90	8.12
psSAR10g [W/kg]	2.21	2.29
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		7.2



System Performance Check Data (5750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		Validation on band	CW, 0--	5750.0, 5750	5.0	5.17	35.6	22.6	21.7

Hardware Setup

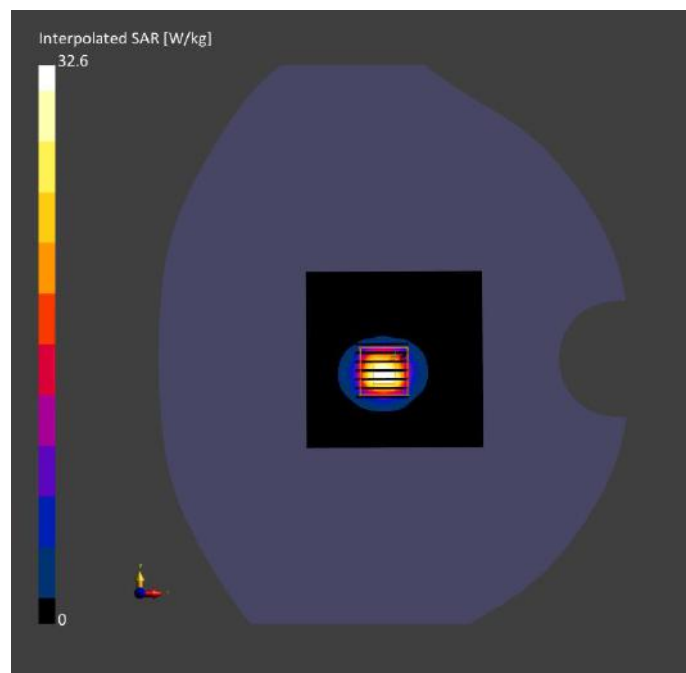
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-31	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-31	2023-03-31
psSAR1g [W/kg]	7.33	7.87
psSAR10g [W/kg]	2.19	2.19
Power Drift [dB]	-0.01	-0.12
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		7.4



System Performance Check Data (5750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHZV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

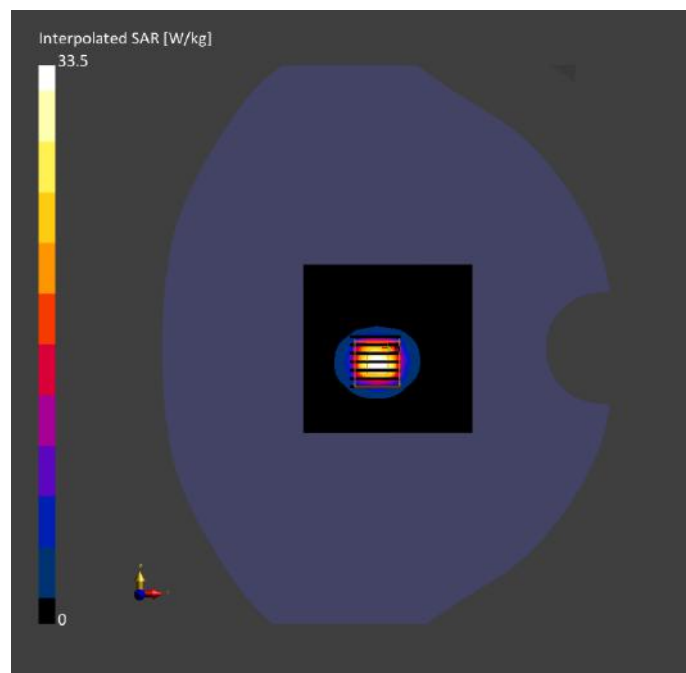
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		Validation on band	CW, 0--	5750.0, 5750	5.0	5.24	35.2	22.3	21.2

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-01	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	22.0 x 22.0 x 22.0	Date	2023-04-01	2023-04-01
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR1g [W/kg]	6.53	7.66
Sensor	3.0	1.4	psSAR10g [W/kg]	2.09	2.08
Surface [mm]			Power Drift	0.01	0.01
Graded Grid	Yes	Yes	[dB]		
Grading Ratio	1.5	1.4	Power	Disabled	Disabled
MAIA	N/A	N/A	Scaling		
Surface	VMS + 6p	VMS + 6p	Scaling		
Detection			Factor [dB]		
Scan Method	Measured	Measured	TSL	No correction	No correction
			Correction		
			M2/M1 [%]		60.1
			Dist 3dB Peak [mm]		7.4



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	2.01	38.6	22.2	21.2

Hardware Setup

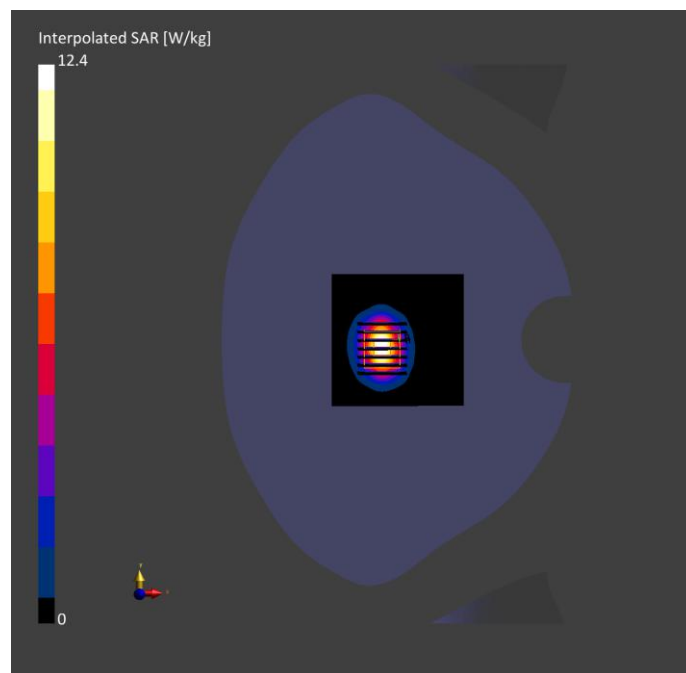
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-10	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-10	2023-04-10
psSAR1g [W/kg]	5.80	5.85
psSAR10g [W/kg]	2.60	2.48
Power Drift [dB]	0.00	0.05
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.4
Dist 3dB Peak [mm]		8.9



System Performance Check Data (2450MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D2450V2, SPEAG	40.0 x 8.0 x 8.0	Dipole

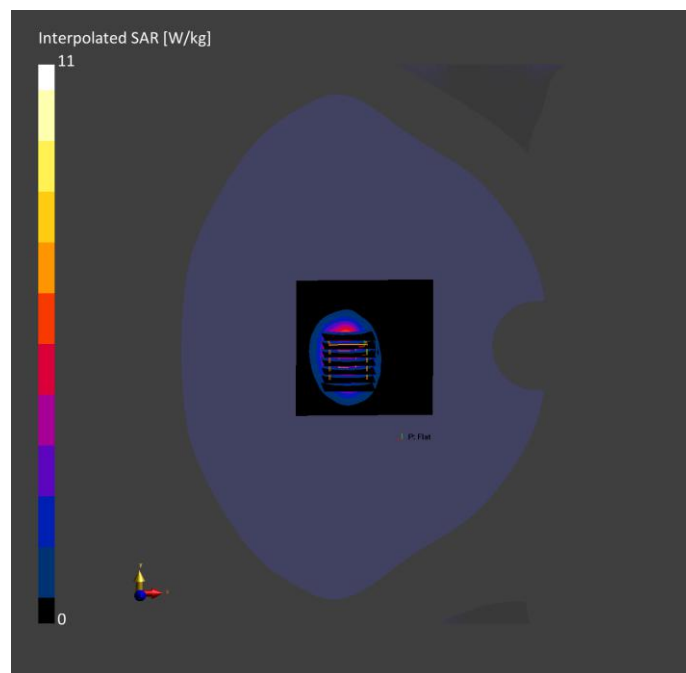
Exposure Conditions

Phantom Section , TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D245 0	CW, 0--	2450.0, 2450	7.79	1.78	39.3	22.2	21.2

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04- 13	EX3DV4 - SN7607,	2022-07- 04	DAE4 Sn878,	2022-06- 13

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2023-04-13	2023-04-13
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	5.34	5.51
Sensor	3.0	1.4	psSAR10g [W/kg]	2.45	2.44
Surface [mm]			Power Drift	-0.02	0.01
Graded Grid	Yes	Yes	[dB]		
Grading Ratio	1.5	1.5	Power	Disabled	Disabled
MAIA	N/A	N/A	Scaling		
Surface	VMS + 6p	VMS + 6p	Scaling		
Detection			Factor [dB]		
Scan Method	Measured	Measured	TSL	No correction	No correction
			Correction		
			M2/M1 [%]		80.8
			Dist 3dB Peak [mm]		8.9



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	1.96	38.6	22.4	21.4

Hardware Setup

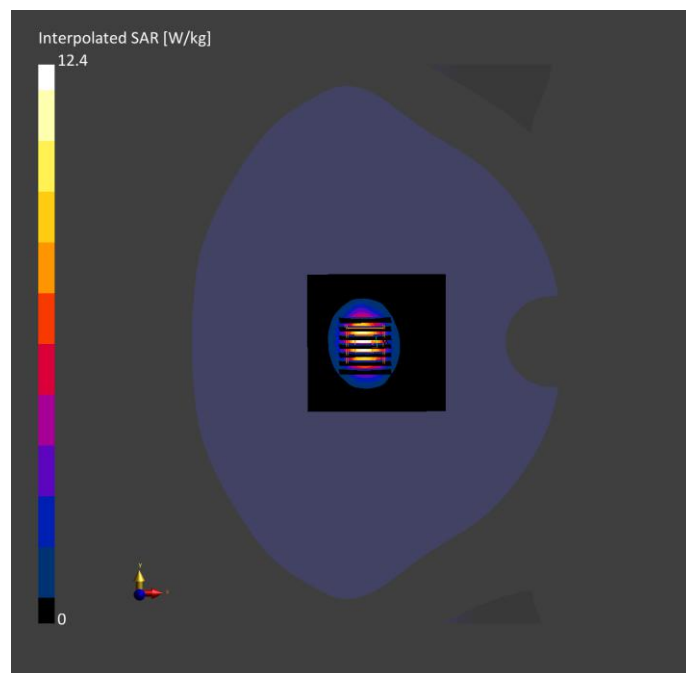
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-14	EX3DV4 - SN7607, 2022-07-04		DAE4 Sn878, 2022-06-13	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-14	2023-04-14
psSAR1g [W/kg]	5.75	5.88
psSAR10g [W/kg]	2.59	2.63
Power Drift [dB]	0.01	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.0



System Performance Check Data (2600MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
CD2600V3, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		CD2600 V3	CW, 0--	2600.0, 50	7.56	2.02	37.9	22.3	21.3

Hardware Setup

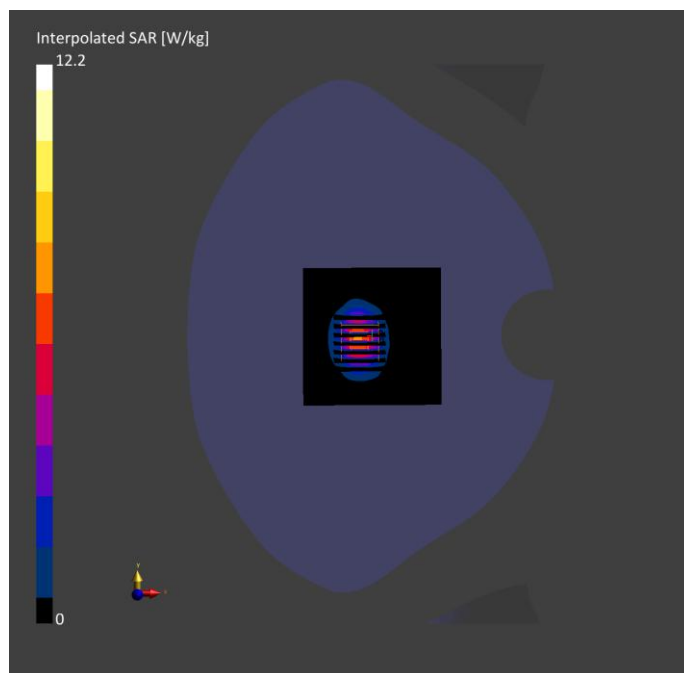
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-15	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	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	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-15	2023-04-15
psSAR1g [W/kg]	5.70	5.77
psSAR10g [W/kg]	2.52	2.59
Power Drift [dB]	0.01	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.0



System Performance Check Data (1750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D1750V2, SPEAG	10.0 x 10.0 x 3.0	Dipole

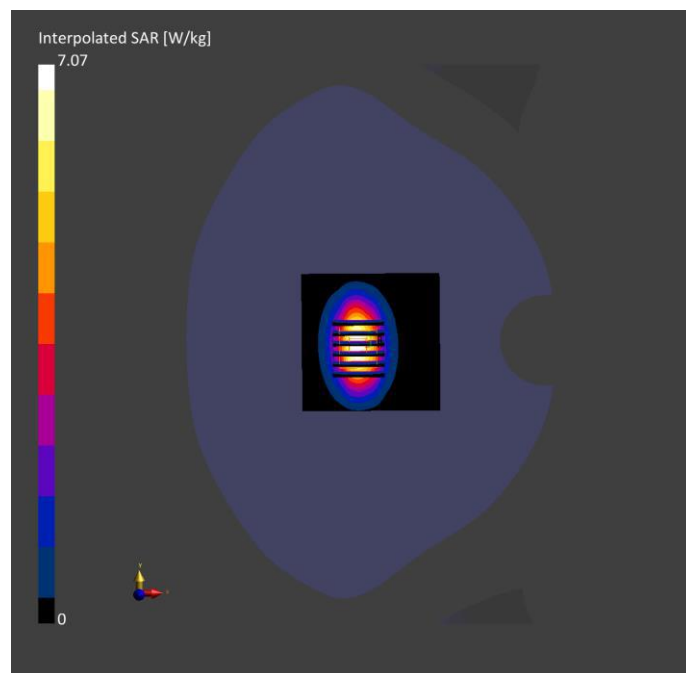
Exposure Conditions

Phantom Section , TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL		D175 0	CW, 0--	1750.0, 50	8.69	1.38	39.5	22.1	21.1

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 16	2023-04-	EX3DV4 - SN7607, 2022-07- 04		DAE4 Sn878, 2022-06- 13	

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2023-04-16	2023-04-16
Grid Steps [mm]	10.0 x 10.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	3.71	3.77
Sensor	3.0	1.4	psSAR10g [W/kg]	1.99	2.01
Surface [mm]			Power Drift [dB]	-0.03	-0.04
Graded Grid	Yes	Yes	Power	Disabled	Disabled
Grading Ratio	1.5	1.5	Scaling		
MAIA	N/A	N/A	Scaling		
Surface	VMS + 6p	VMS + 6p	Factor [dB]		
Detection			TSL	No correction	No correction
Scan Method	Measured	Measured	Correction		
			M2/M1 [%]		81.9
			Dist 3dB Peak [mm]		10.7



ANNEX C TEST DATA

Meas.1 Right Head with Cheek on Middle Channel in GSM 850 4Slots mode with Antenna.1

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	GS M 850	GSM, 10028 -DAC	836.6, 190	10.44	0.92	40.8	22.4	21.2

Hardware Setup

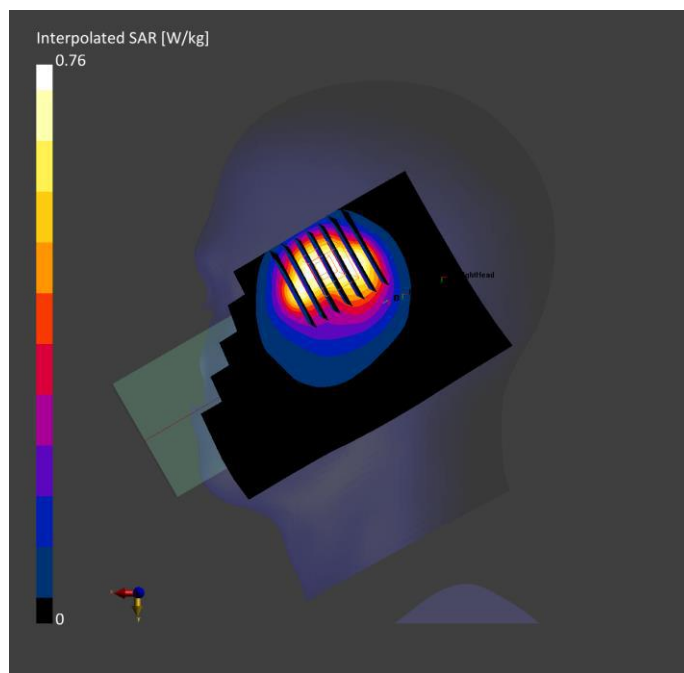
PhAntom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-04	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-04	2023-03-04
psSAR1g [W/kg]	0.325	0.387
psSAR10g [W/kg]	0.220	0.206
Power Drift [dB]	-0.03	-0.04
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		8.0



Meas.2 Body Plane with Front Side 15mm on Middle Channel in GSM850 4Slots mode with Antenna.0

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	FRONT , 15.00	GS M 850	GSM, 10028 -DAC	836.6, 190	10.44	0.92	40.8	22.4	21.2

Hardware Setup

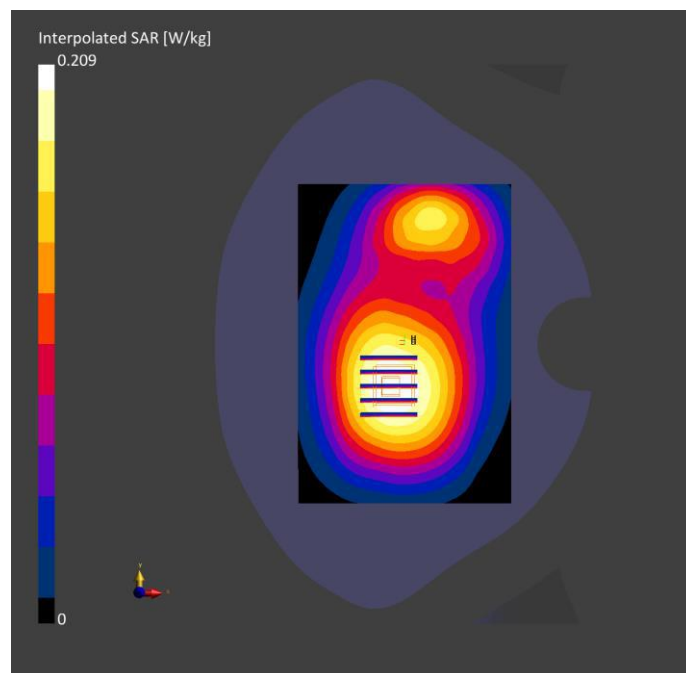
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-04	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-04	2023-03-04
psSAR1g [W/kg]	0.154	0.160
psSAR10g [W/kg]	0.108	0.122
Power Drift [dB]	-0.01	0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.1
Dist 3dB Peak [mm]		> 16.0



Meas.3 Body Plane with Back Side 10mm on Middle Channel in GSM850 4Slots mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	GS M 850	GSM, 10028 -DAC	836.6, 190	10.44	0.92	40.8	22.4	21.2

Hardware Setup

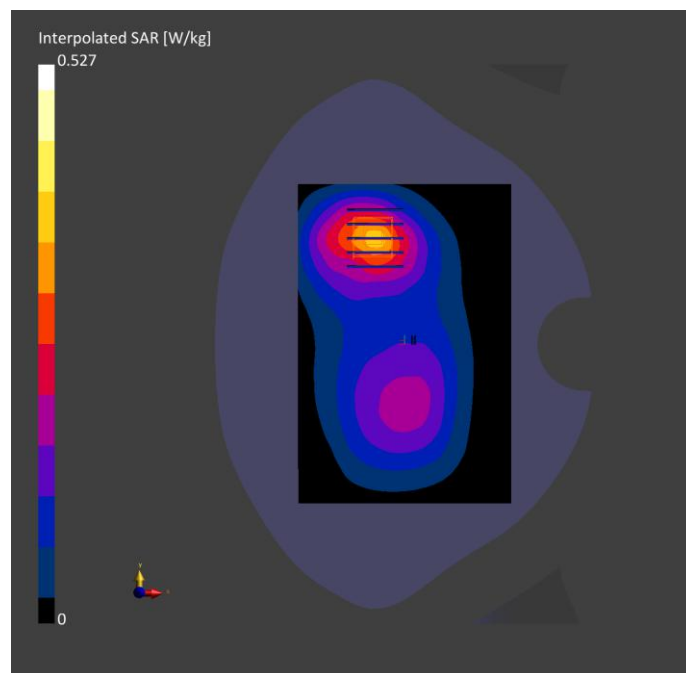
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-04	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-04	2023-03-04
psSAR1g [W/kg]	0.323	0.325
psSAR10g [W/kg]	0.207	0.200
Power Drift [dB]	0.01	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.9
Dist 3dB Peak [mm]		15.1



Meas.4 Right Head with Tilt on High Channel in GSM 1900 3Slots mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	PCS 190 0	GSM, 10027 -DAC	1909.8, 810	8.4	1.44	38.6	22.3	21.2

Hardware Setup

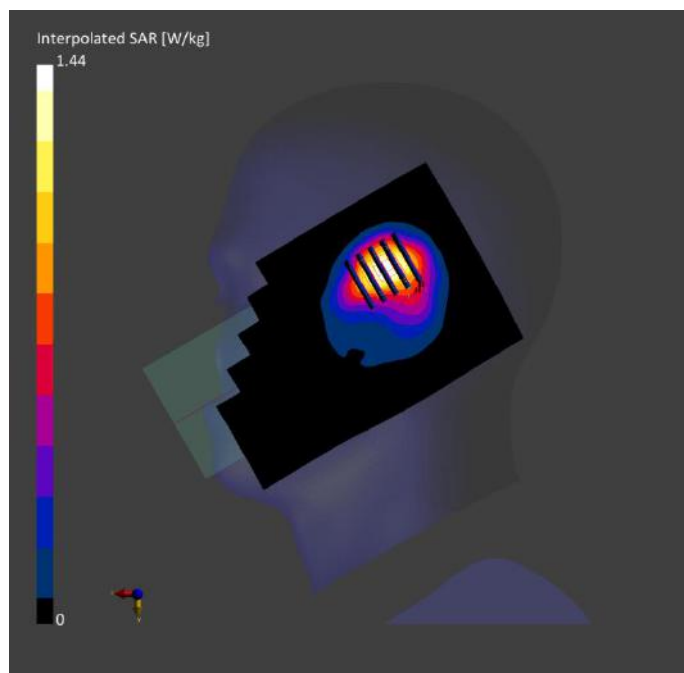
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-13	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-13	2023-03-13
psSAR1g [W/kg]	0.719	0.765
psSAR10g [W/kg]	0.411	0.404
Power Drift [dB]	0.01	0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.3
Dist 3dB Peak [mm]		10.0



Meas.5 Body Plane with Back Side 15mm on Low Channel in GSM1900 3Slots mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	PCS 190 0	GSM, 10027 -DAC	1850.2, 512	8.4	1.39	40.9	22.3	21.2

Hardware Setup

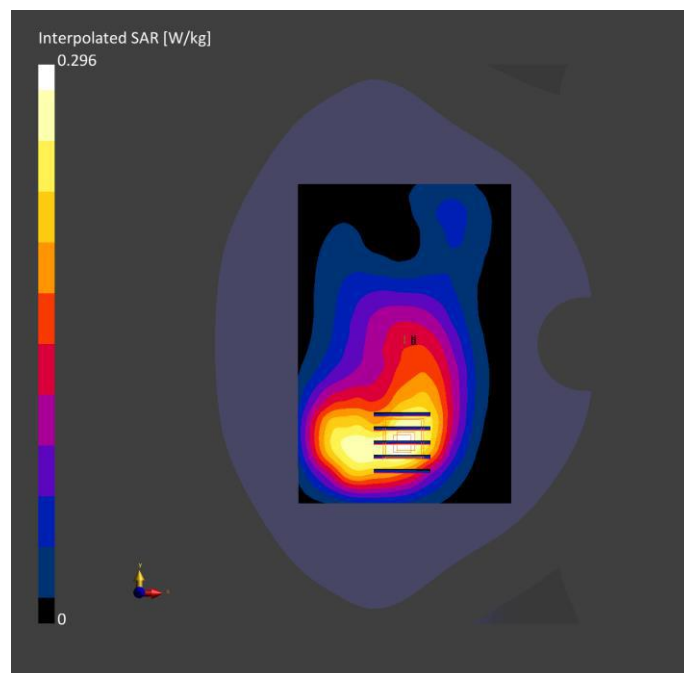
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-13	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-13	2023-03-13
psSAR1g [W/kg]	0.183	0.189
psSAR10g [W/kg]	0.111	0.119
Power Drift [dB]	-0.00	0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		18.7



Meas.6 Body Plane with Bottom Edge 10mm on Low Channel in GSM1900 3Slots mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	PCS 190 0	GSM, 10027 -DAC	1850.2, 512	8.4	1.39	40.9	22.3	21.2

Hardware Setup

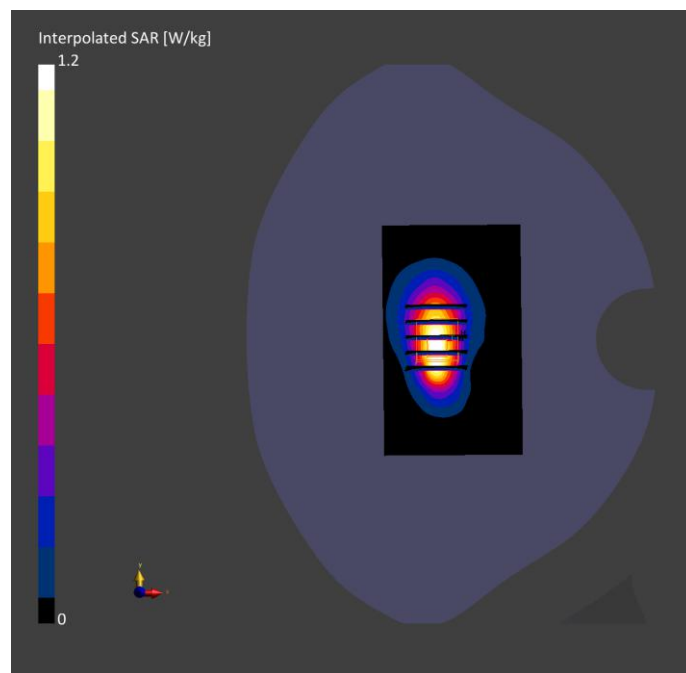
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-13	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-13	2023-03-13
psSAR1g [W/kg]	0.635	0.654
psSAR10g [W/kg]	0.328	0.341
Power Drift [dB]	-0.00	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		8.0



Meas.7 Right Head with Cheek on High Channel in WCDMA Band2 mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 2	WCDMA, 10011- CAC	1907.6, 9538	8.4	1.42	39.7	21.8	20.9

Hardware Setup

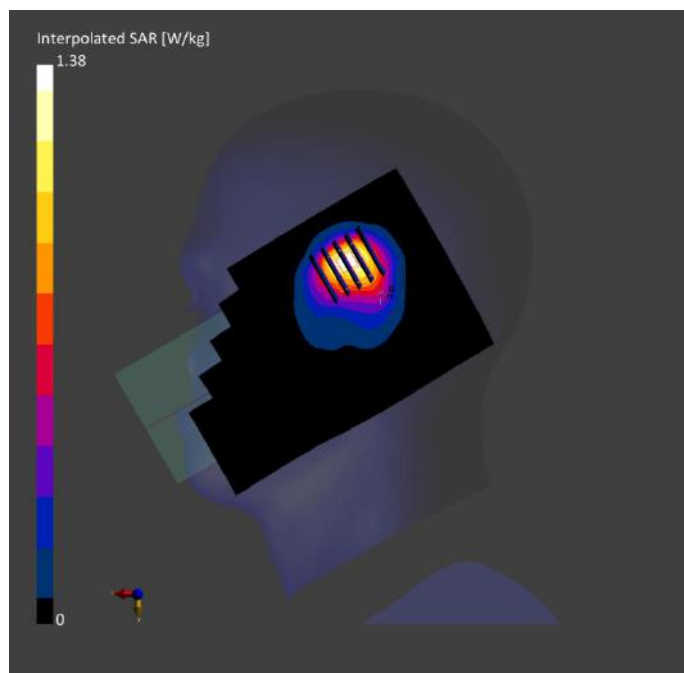
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-07	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-07	2023-04-07
psSAR1g [W/kg]	0.740	0.732
psSAR10g [W/kg]	0.414	0.387
Power Drift [dB]	0.01	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.4
Dist 3dB Peak [mm]		8.6



Meas.8 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band2 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	WCDMA, 10457- AAB	1880.0, 9400	8.4	1.37	40.7	21.8	20.9

Hardware Setup

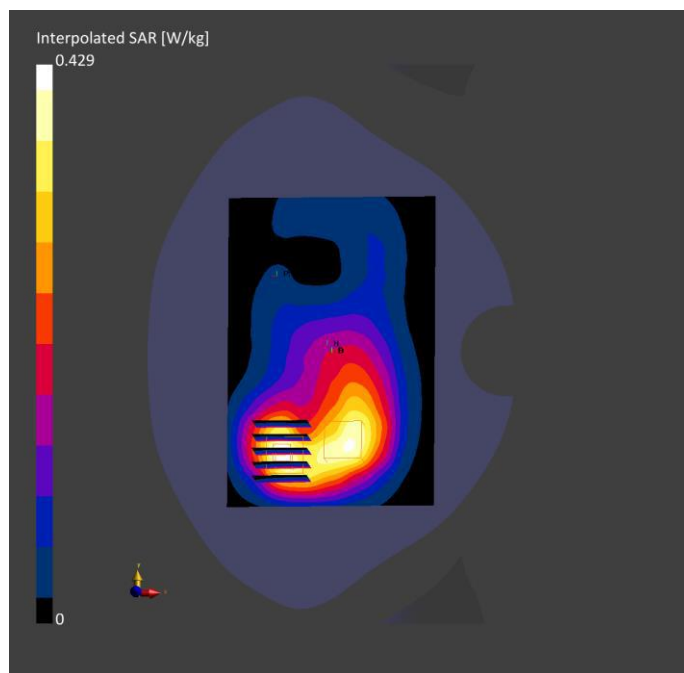
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-07	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-07	2023-04-07
psSAR1g [W/kg]	0.250	0.255
psSAR10g [W/kg]	0.147	0.151
Power Drift [dB]	0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		14.8



Meas.9 Body Plane with Top Edge 10mm on Middle Channel in WCDMA Band2 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 2	WCDMA, 10457- AAB	1880.0, 9400	8.4	1.37	40.7	21.8	20.9

Hardware Setup

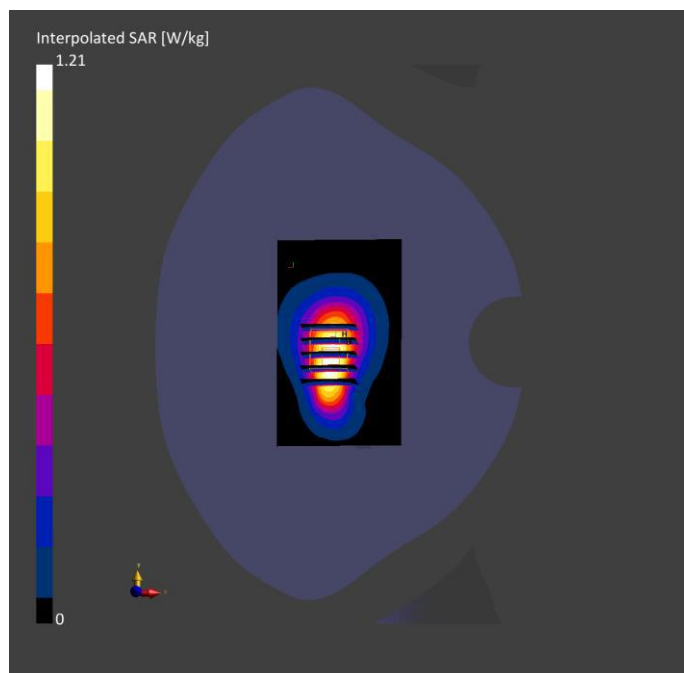
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-07	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-07	2023-04-07
psSAR1g [W/kg]	0.679	0.688
psSAR10g [W/kg]	0.377	0.387
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		9.7



Meas.10 Body Plane with Top Edge 0mm on Middle Channel in WCDMA Band2 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 2	WCDMA, 10457- AAB	1880.0, 9400	8.4	1.37	40.7	21.8	20.9

Hardware Setup

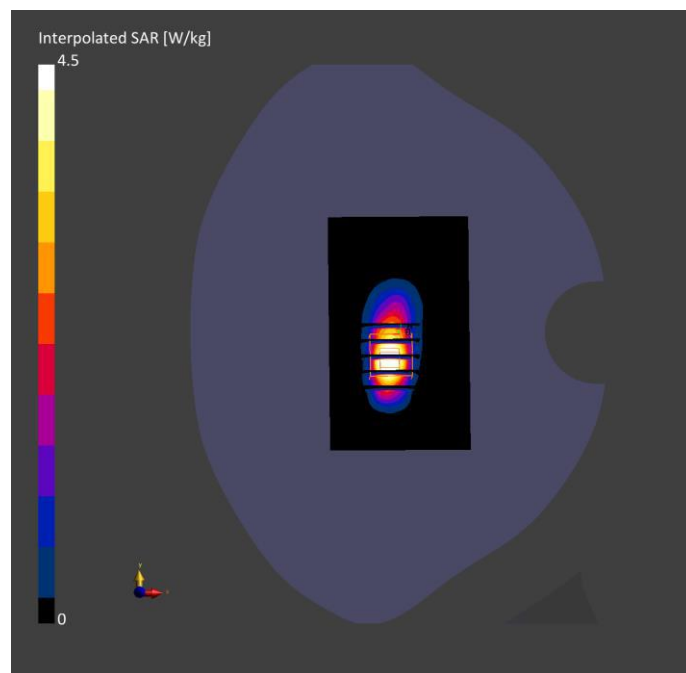
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-07	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-07	2023-04-07
psSAR1g [W/kg]	4.10	4.32
psSAR10g [W/kg]	1.85	1.73
Power Drift [dB]	-0.03	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		40.6
Dist 3dB Peak [mm]		4.8



Meas.11 Right Head with Tilt on High Channel in WCDMA Band4 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 4	WCDMA, 10011- CAC	1752.6, 1513	8.69	1.42	38.7	22.3	21.1

Hardware Setup

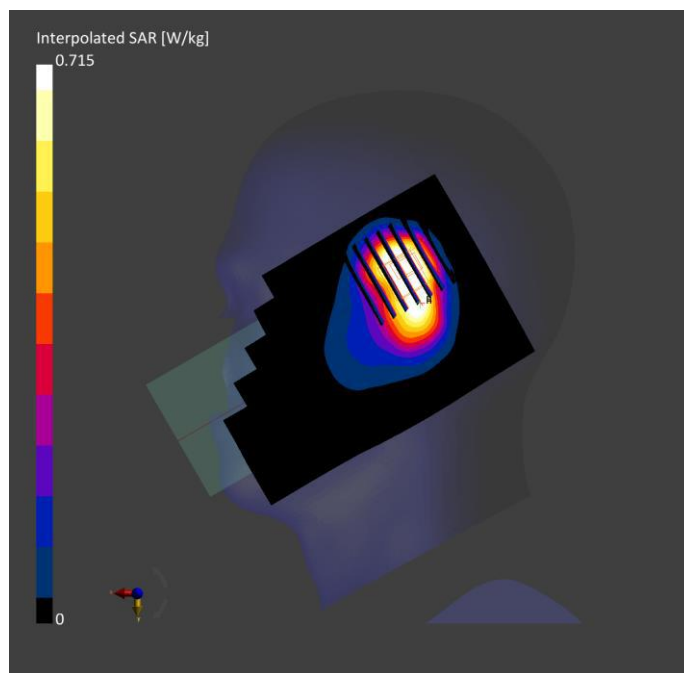
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-07	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-07	2023-03-07
psSAR1g [W/kg]	0.304	0.370
psSAR10g [W/kg]	0.181	0.189
Power Drift [dB]	-0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		8.0



Meas.12 Body Plane with Back Side 15mm on Low Channel in WCDMA Band4 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 4	WCDMA, 10457- AAB	1712.4, 1312	8.69	1.37	41.5	22.3	21.1

Hardware Setup

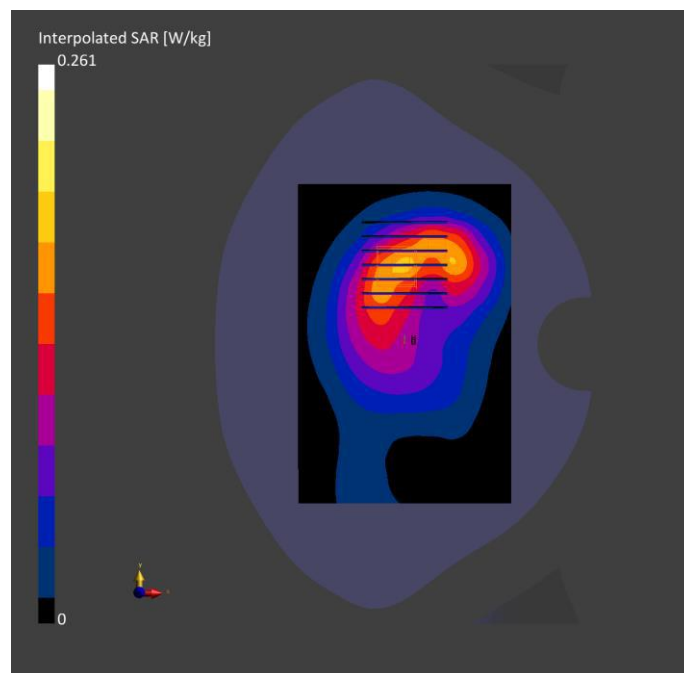
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-07	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-07	2023-03-07
psSAR1g [W/kg]	0.151	0.159
psSAR10g [W/kg]	0.093	0.098
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		16.0



Meas.13 Body Plane with Bottom Edge 10mm on Low Channel in WCDMA Band4 mode with Antenna.3

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Ban d 4	WCDM A, 10457- AAB	1712.4, 1312	8.69	1.37	41.5	22.3	21.1

Hardware Setup

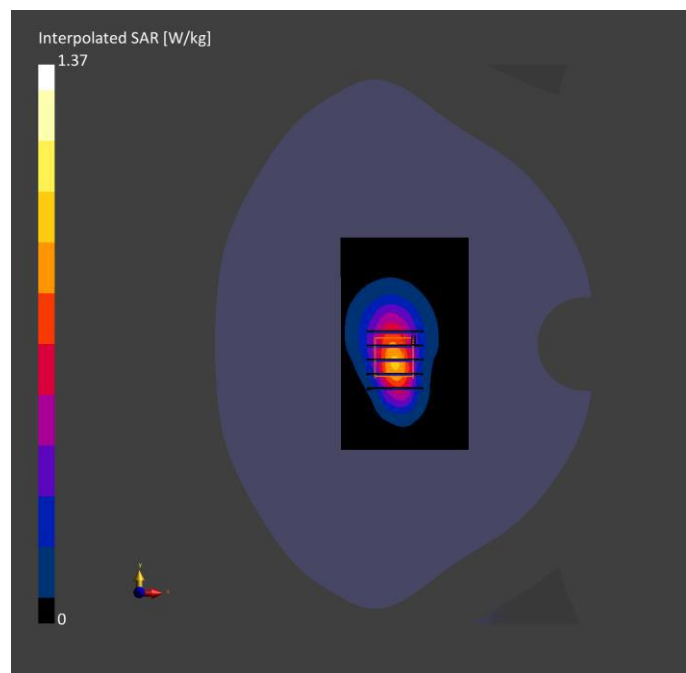
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-07	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-07	2023-03-07
psSAR1g [W/kg]	0.763	0.779
psSAR10g [W/kg]	0.416	0.425
Power Drift [dB]	-0.00	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		10.7



Meas.14 Body Plane with Bottom Edge 0mm on Low Channel in WCDMA Band4 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 0.00	Ban d 4	WCDM A, 10457- AAB	1712.4, 1312	8.69	1.37	41.5	22.3	21.1

Hardware Setup

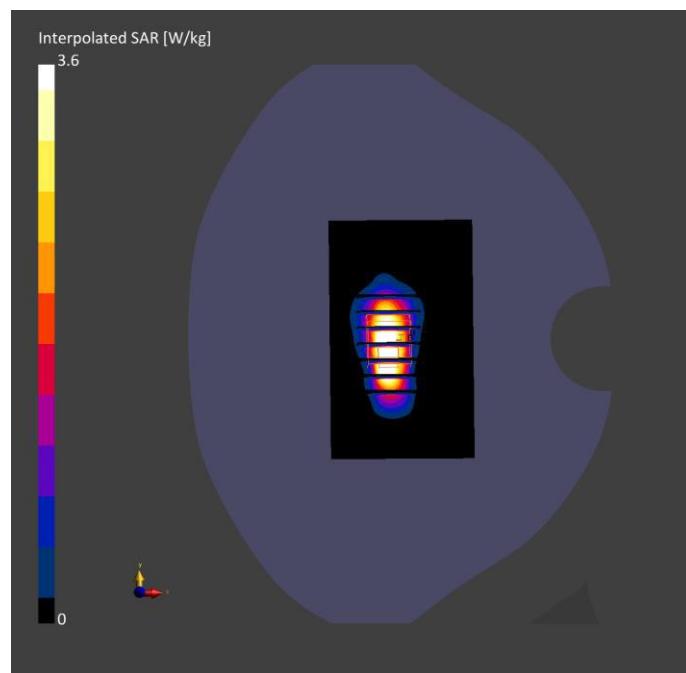
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-07	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-07	2023-03-07
psSAR1g [W/kg]	3.56	3.60
psSAR10g [W/kg]	1.70	1.59
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		32.0
Dist 3dB Peak [mm]		4.8



Meas.15 Right Head with Cheek on Low Channel in WCDMA Band5 mode with Antenna.1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 5	WCDMA, 10011- CAC	826.4, 4132	10.44	0.88	41.6	22.4	21.2

Hardware Setup

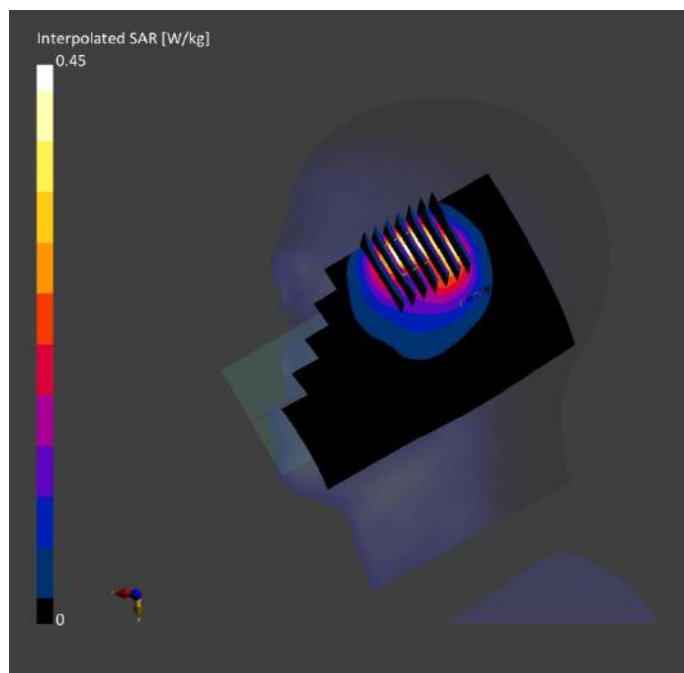
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-04	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-04	2023-03-04
psSAR1g [W/kg]	0.236	0.232
psSAR10g [W/kg]	0.146	0.124
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		6.4



Meas.16 Body Plane with Back Side 15mm on Middle Channel in WCDMA Band5 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	WCDMA, 10457- AAB	836.4, 4182	10.44	0.92	40.9	22.4	21.2

Hardware Setup

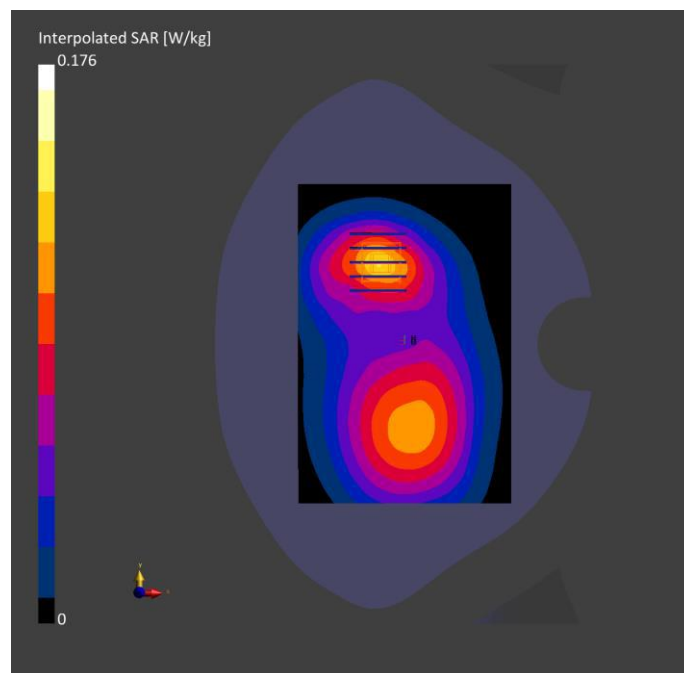
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-04	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-04	2023-03-04
psSAR1g [W/kg]	0.113	0.113
psSAR10g [W/kg]	0.074	0.071
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		18.7



Meas.17 Body Plane with Back Side 10mm on Middle Channel in WCDMA Band5 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	WCDMA, 10457- AAB	836.4, 4182	10.44	0.92	40.9	22.4	21.2

Hardware Setup

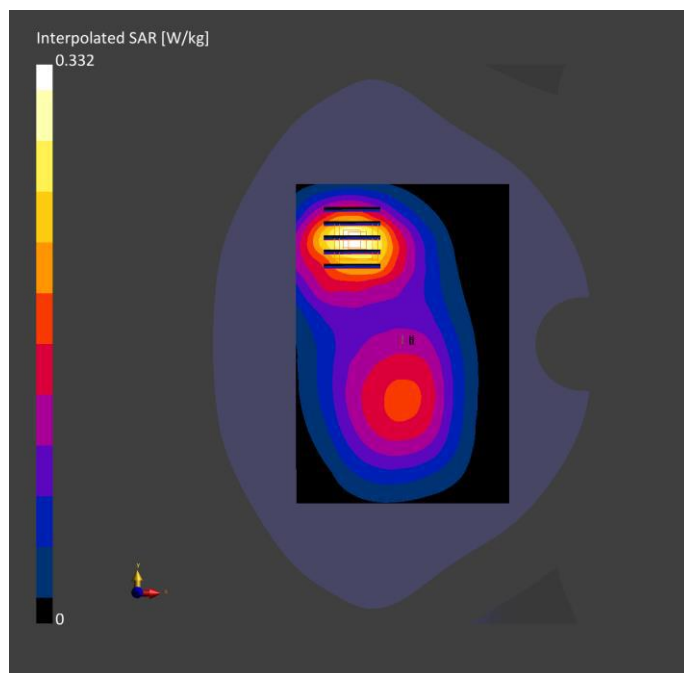
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-04	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-04	2023-03-04
psSAR1g [W/kg]	0.203	0.202
psSAR10g [W/kg]	0.130	0.124
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.5
Dist 3dB Peak [mm]		14.8



Meas.18 Right Head with Tilt on Middle Channel in LTE Band2 mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 2	LTE- FDD, 10169 -CAF	1880.0, 18900	8.4	1.38	39.5	22.0	21.0

Hardware Setup

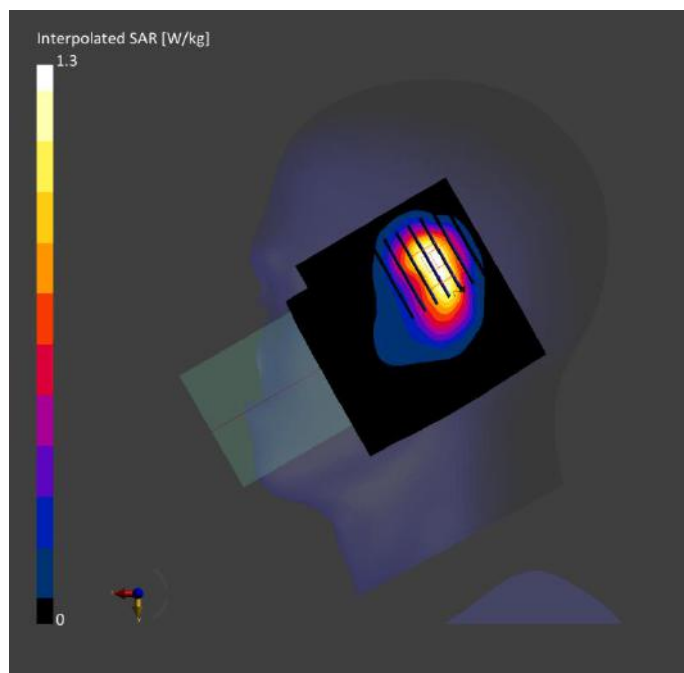
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-08	2023-04-08
psSAR1g [W/kg]	0.555	0.640
psSAR10g [W/kg]	0.317	0.321
Power Drift [dB]	0.03	-0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		8.0



Meas.19 Body Plane with Back Side 15mm on High Channel in LTE Band2 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 2	LTE- FDD, 10169 -CAF	1900.0, 19100	8.4	1.38	39.3	22.0	21.0

Hardware Setup

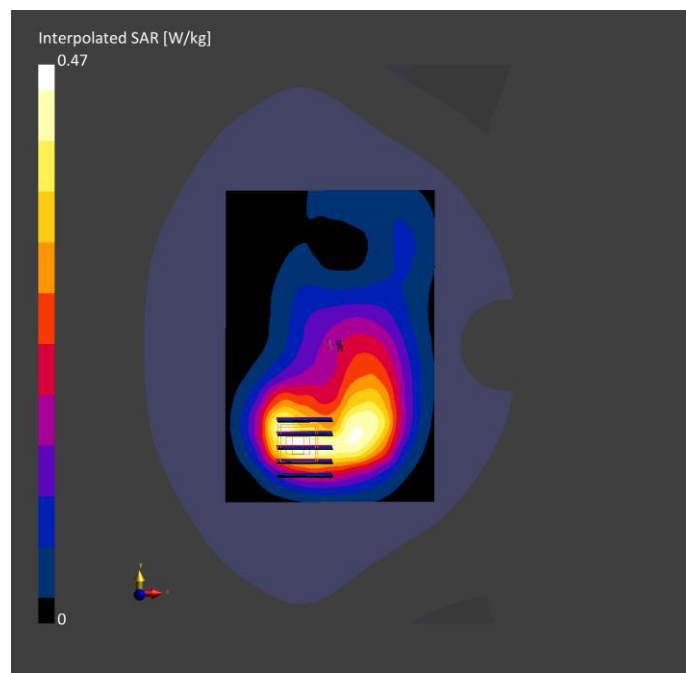
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-08	2023-04-08
psSAR1g [W/kg]	0.265	0.271
psSAR10g [W/kg]	0.158	0.159
Power Drift [dB]	-0.01	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.9
Dist 3dB Peak [mm]		14.8



Meas.20 Body Plane with Top Edge 10mm on High Channel in LTE Band2 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 2	LTE- FDD, 10169 -CAF	1900.0, 19100	8.4	1.38	39.3	22.0	21.0

Hardware Setup

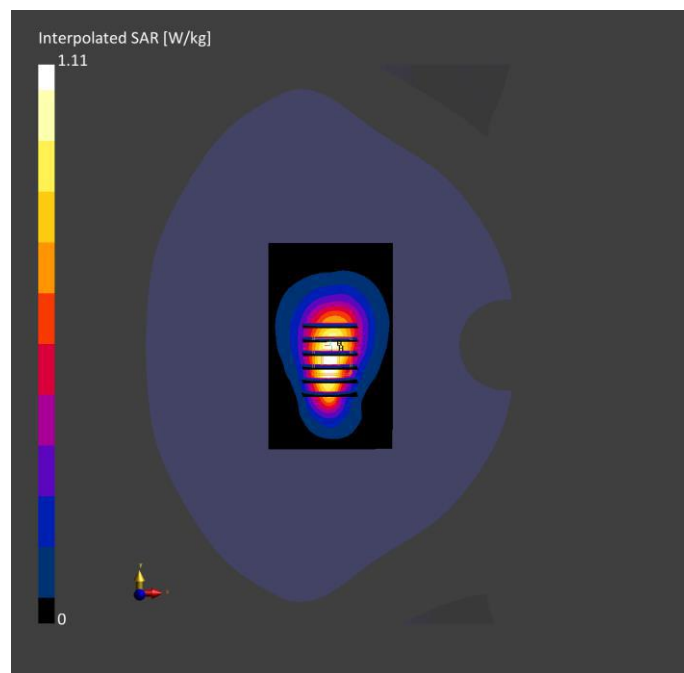
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-08	2023-04-08
psSAR1g [W/kg]	0.621	0.628
psSAR10g [W/kg]	0.340	0.353
Power Drift [dB]	-0.01	-0.02
Power	Disabled	Disabled
Scaling		
Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		11.2



Meas.21 Right Head with Cheek on Middle Channel in LTE Band4 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 4	LTE- FDD, 10169 -CAF	1732.5, 20175	8.69	1.36	40.6	22.1	20.8

Hardware Setup

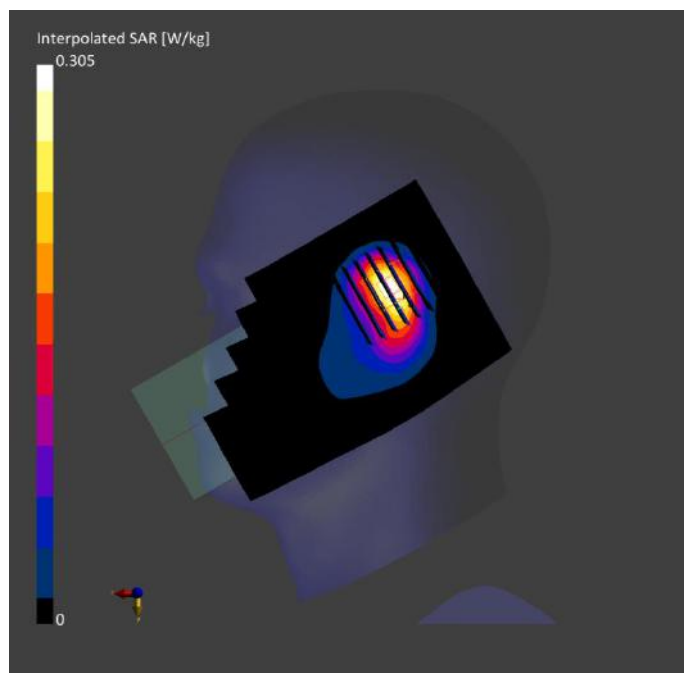
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-08	2023-03-08
psSAR1g [W/kg]	0.147	0.165
psSAR10g [W/kg]	0.083	0.083
Power Drift [dB]	-0.17	0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		7.2



Meas.22 Body Plane with Back Side 15mm on Middle Channel in LTE Band4 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 4	LTE- FDD, 10169 -CAF	1732.5, 20175	8.69	1.36	40.6	22.1	20.8

Hardware Setup

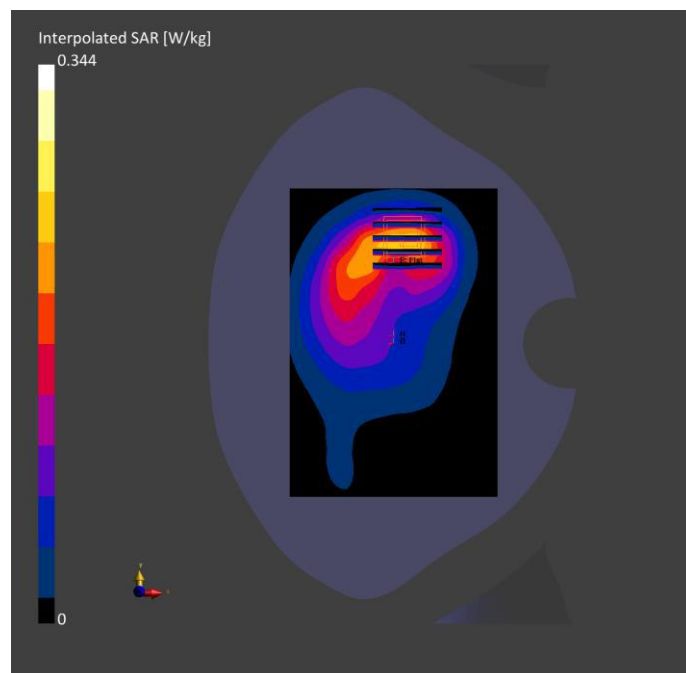
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-08	2023-03-08
psSAR1g [W/kg]	0.208	0.209
psSAR10g [W/kg]	0.123	0.124
Power Drift [dB]	-0.00	-0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		14.8



Meas.23 Body Plane with Bottom Edge 10mm on High Channel in LTE Band4 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band 4	LTE- FDD, 10169 -CAF	1745.0, 20300	8.69	1.38	40.0	22.1	20.8

Hardware Setup

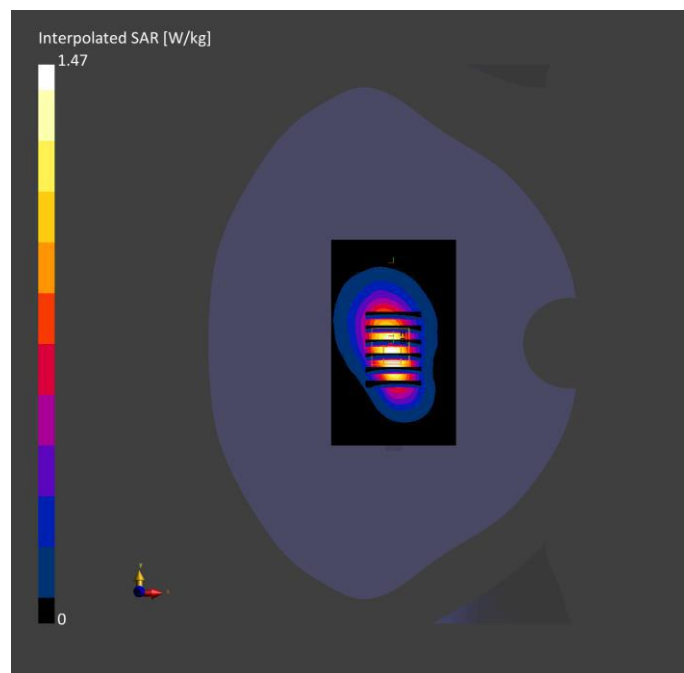
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-08	2023-03-08
psSAR1g [W/kg]	0.802	0.823
psSAR10g [W/kg]	0.433	0.446
Power Drift [dB]	-0.00	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		10.1



Meas.24 Body Plane with Bottom Edge 0mm on Low Channel in LTE Band4 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 0.00	Band 4	LTE- FDD, 10169 -CAF	1732.5, 20175	8.69	1.36	40.6	22.1	20.8

Hardware Setup

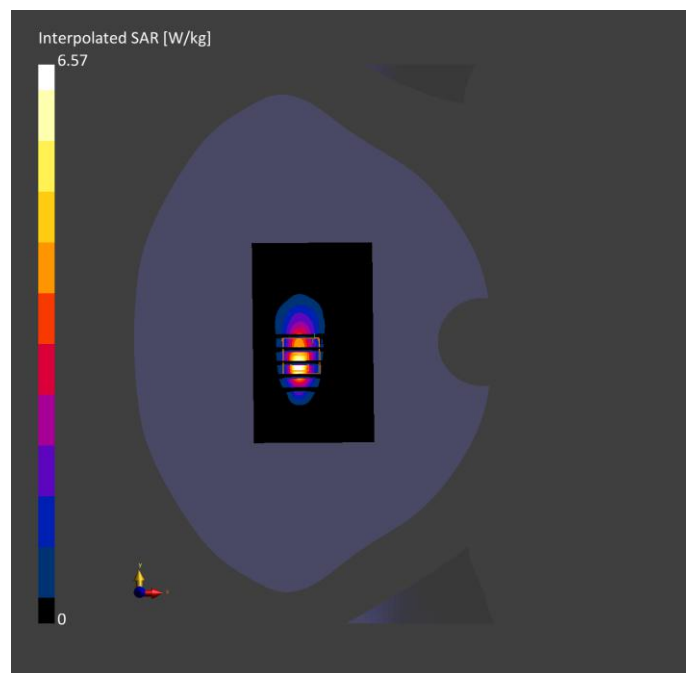
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-08	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-08	2023-03-08
psSAR1g [W/kg]	2.73	2.67
psSAR10g [W/kg]	1.14	1.06
Power Drift [dB]	-0.01	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.4
Dist 3dB Peak [mm]		4.8



Meas.25 Right Head with Cheek on High Channel in LTE Band5 mode with Antenna.1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 5	LTE- FDD, 10175 -CAH	844.0, 20600	10.44	0.92	40.3	22.1	20.9

Hardware Setup

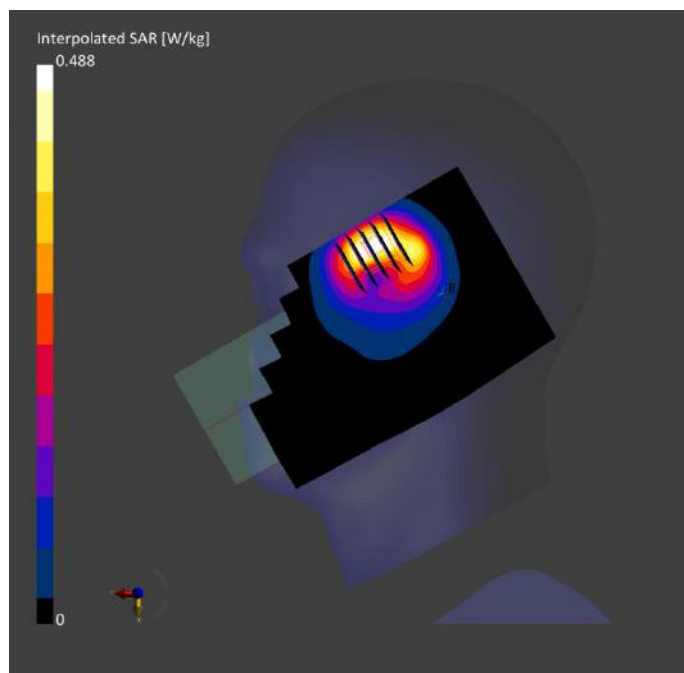
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-05	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-05	2023-03-05
psSAR1g [W/kg]	0.284	0.256
psSAR10g [W/kg]	0.176	0.138
Power Drift [dB]	-0.12	-0.08
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		9.4



Meas.26 Body Plane with Back Side 15mm on Middle Channel in LTE Band5 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	LTE- FDD, 10175 -CAH	836.5, 20525	10.44	0.91	41.1	22.1	20.9

Hardware Setup

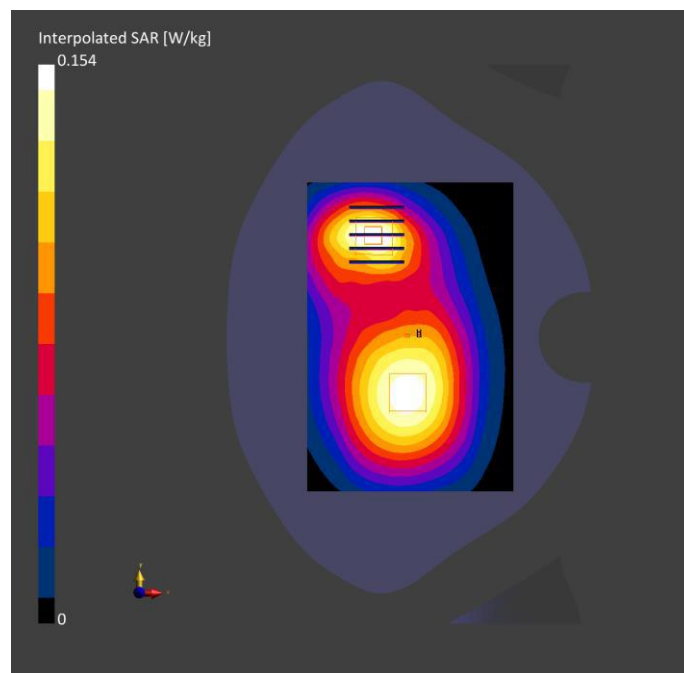
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-05	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-05	2023-03-05
psSAR1g [W/kg]	0.098	0.099
psSAR10g [W/kg]	0.067	0.063
Power Drift [dB]	0.04	-0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.5
Dist 3dB Peak [mm]		18.7



Meas.27 Body Plane with Back Side 10mm on Middle Channel in LTE Band5 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	LTE- FDD, 10175 -CAH	836.5, 20525	10.44	0.91	41.1	22.1	20.9

Hardware Setup

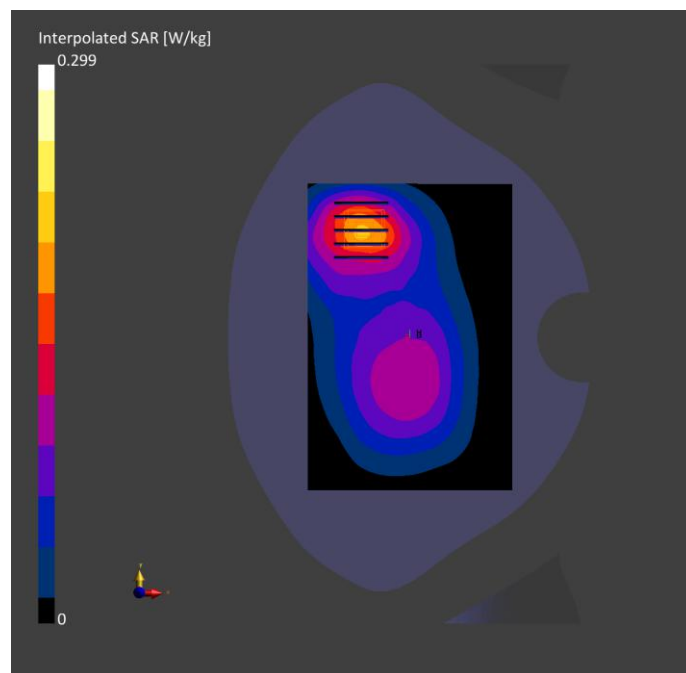
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-05	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-05	2023-03-05
psSAR1g [W/kg]	0.179	0.184
psSAR10g [W/kg]	0.118	0.113
Power Drift [dB]	-0.01	0.00
Power	Disabled	Disabled
Scaling		
Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		16.5



Meas.28 Right Head with Tilt on High Channel in LTE Band7 mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 7	LTE- FDD, 10169 -CAF	2560.0, 21350	7.56	1.91	39.5	21.9	21.1

Hardware Setup

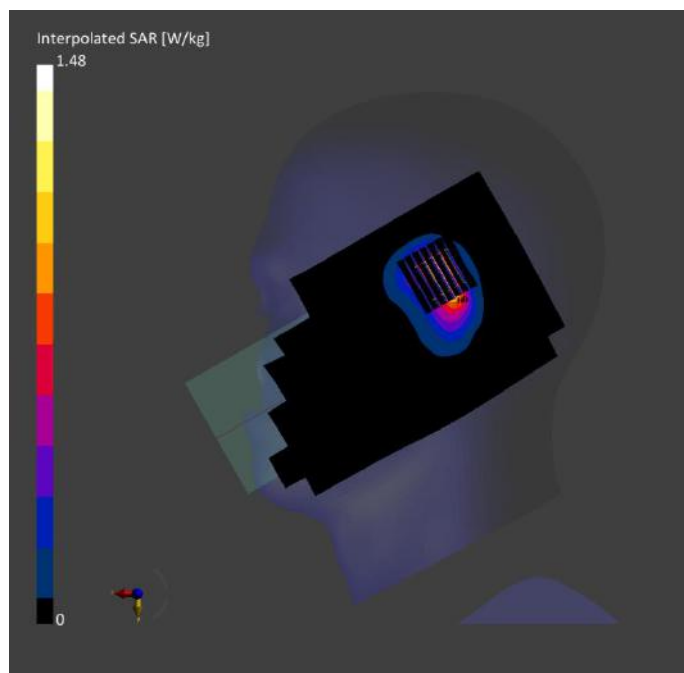
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-09	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-09	2023-04-09
psSAR1g [W/kg]	0.688	0.692
psSAR10g [W/kg]	0.318	0.309
Power Drift [dB]	0.02	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.2
Dist 3dB Peak [mm]		7.0



Meas.29 Body Plane with Back Side 15mm on Middle Channel in LTE Band7 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 7	LTE- FDD, 10169 -CAF	2535.0, 21100	7.56	1.87	39.7	21.9	21.1

Hardware Setup

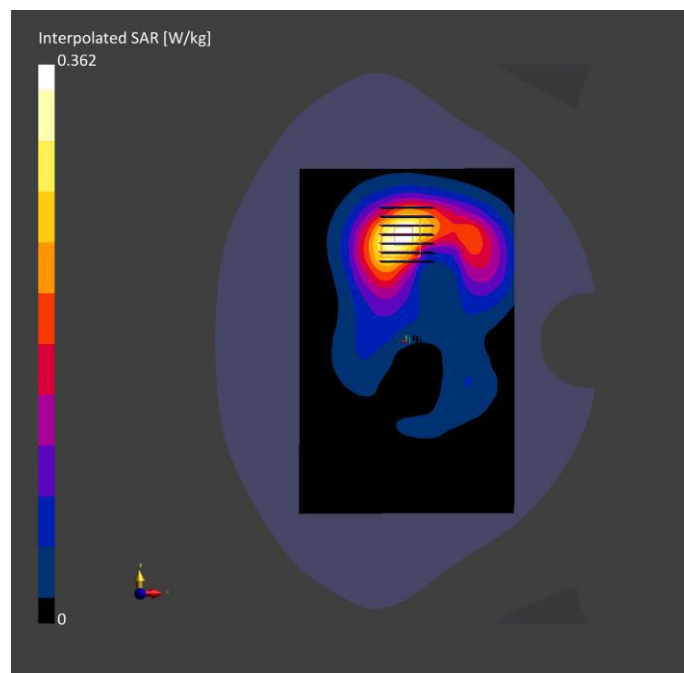
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-09	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-09	2023-04-09
psSAR1g [W/kg]	0.197	0.201
psSAR10g [W/kg]	0.104	0.109
Power Drift [dB]	-0.00	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		12.7



Meas.30 Body Plane with Top Edge 10mm on Middle Channel in LTE Band7 mode with Antenna. 4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Device,	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 7	LTE- FDD, 10169 -CAF	2535.0, 21100	7.56	1.87	39.7	21.9	21.1

Hardware Setup

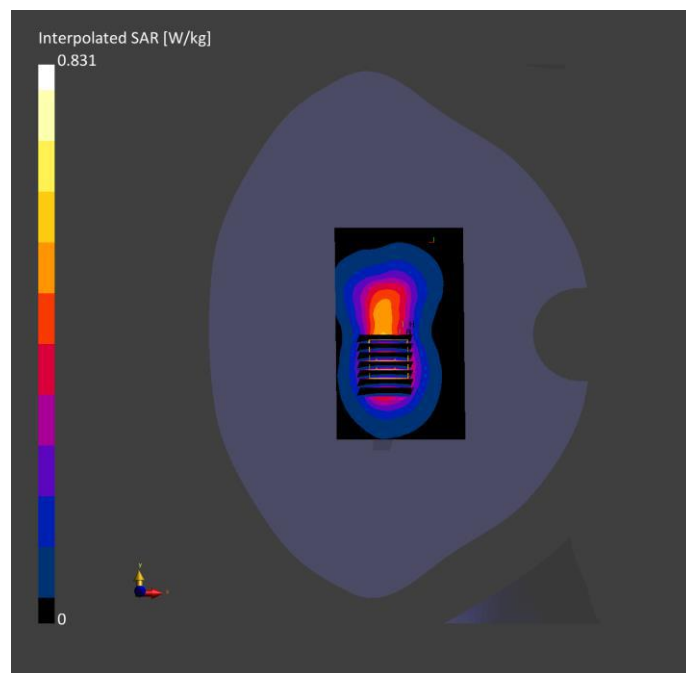
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-09	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-09	2023-04-09
psSAR1g [W/kg]	0.378	0.418
psSAR10g [W/kg]	0.190	0.199
Power Drift [dB]	0.00	-0.02
Power	Disabled	Disabled
Scaling		
Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.5
Dist 3dB Peak [mm]		10.4



Meas.31 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band7 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 7	LTE- FDD, 10169 -CAF	2535.0, 21100	7.56	1.87	39.7	21.9	21.1

Hardware Setup

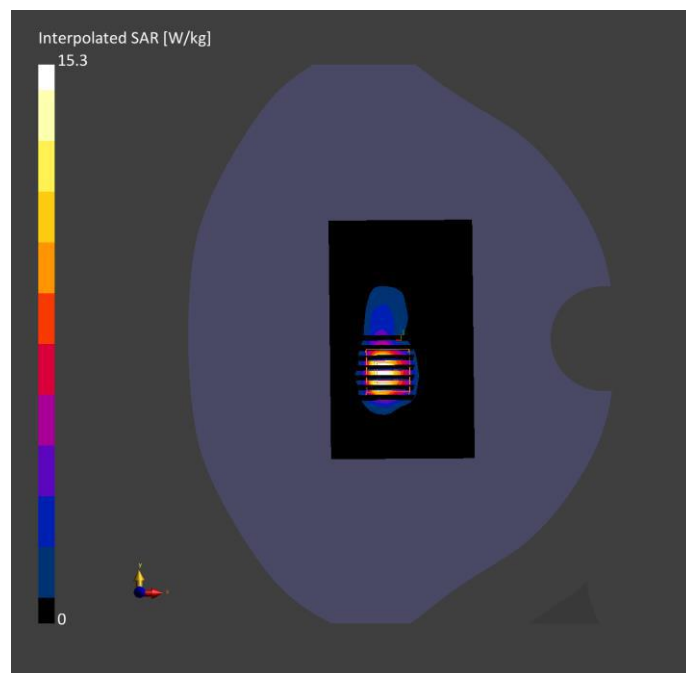
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-09	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-09	2023-04-09
psSAR1g [W/kg]	4.16	5.88
psSAR10g [W/kg]	1.75	2.02
Power Drift [dB]	-0.04	-0.02
Power	Disabled	Disabled
Scaling		
Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		38.3
Dist 3dB Peak [mm]		6.0



Meas.32 Right Head with Cheek on Middle Channel in LTE Band12 mode with Antenna.1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 12	LTE- FDD, 10175 -CAH	711.0, 23130	10.96	0.87	43.1	22.3	21.1

Hardware Setup

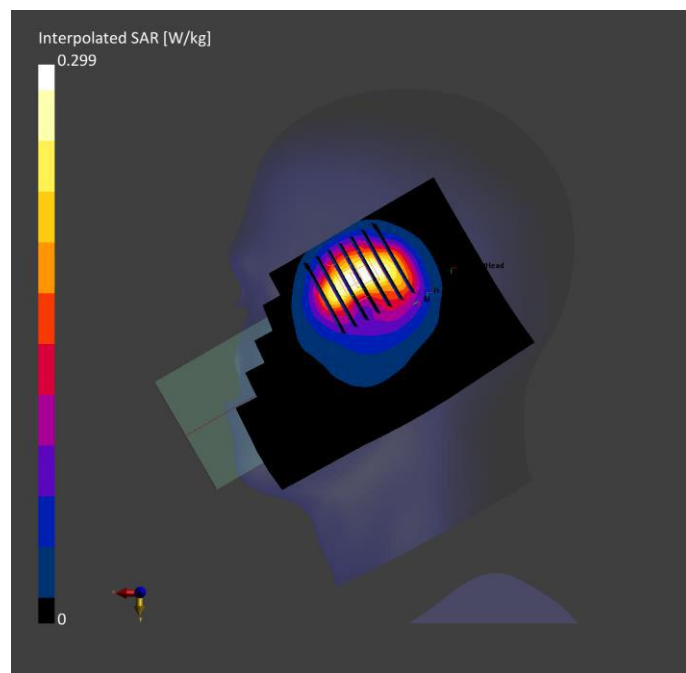
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-02	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-02	2023-03-02
psSAR1g [W/kg]	0.144	0.146
psSAR10g [W/kg]	0.093	0.076
Power Drift [dB]	0.08	-0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.5
Dist 3dB Peak [mm]		7.1



Meas.33 Body Plane with Back Side 15mm on Middle Channel in LTE Band12 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 12	LTE- FDD, 10175 -CAH	711.0, 23130	10.96	0.87	43.1	22.3	21.1

Hardware Setup

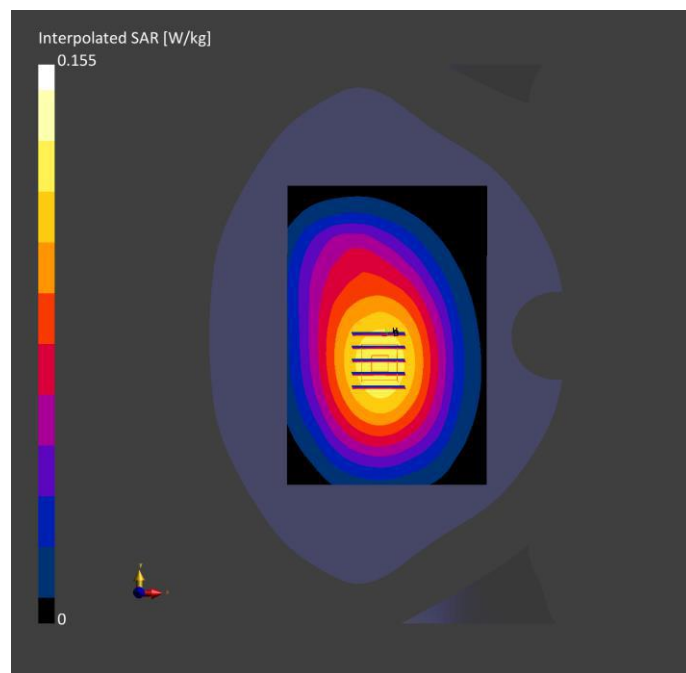
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-03-02	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-02	2023-03-02
psSAR1g [W/kg]	0.114	0.119
psSAR10g [W/kg]	0.081	0.091
Power Drift [dB]	-0.00	0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.5
Dist 3dB Peak [mm]		16.0



Meas.34 Body Plane with Right Edge 10mm on Middle Channel in LTE Band12 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE RIGHT, 10.00	Band 12	LTE- FDD, 10175 -CAH	711.0, 23130	10.96	0.87	43.1	22.3	21.1

Hardware Setup

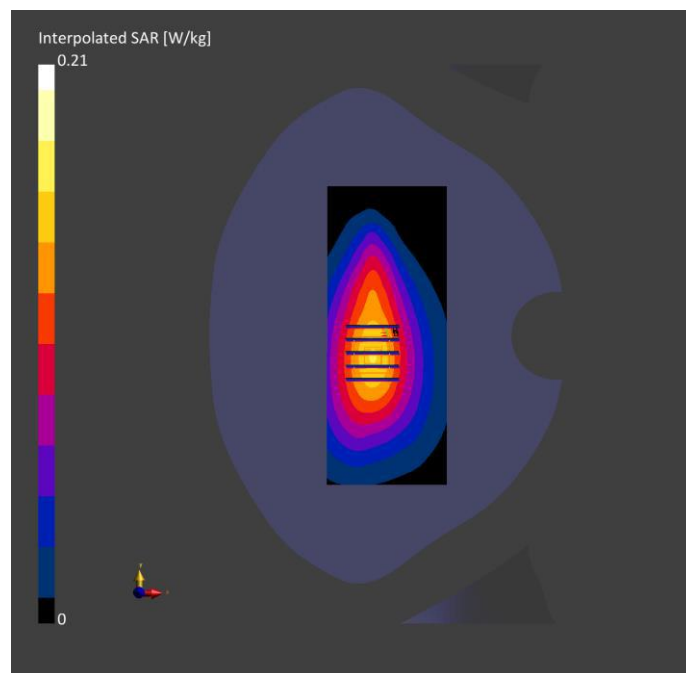
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-02	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-02	2023-03-02
psSAR1g [W/kg]	0.139	0.143
psSAR10g [W/kg]	0.096	0.099
Power Drift [dB]	-0.01	0.00
Power	Disabled	Disabled
Scaling		
Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		67.2
Dist 3dB Peak [mm]		16.1



Meas.35 Right Head with Cheek on Middle Channel in LTE Band13 mode with Antenna.1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 13	LTE- FDD, 10175 -CAH	782.0, 23230	10.96	0.92	40.8	22.3	21.1

Hardware Setup

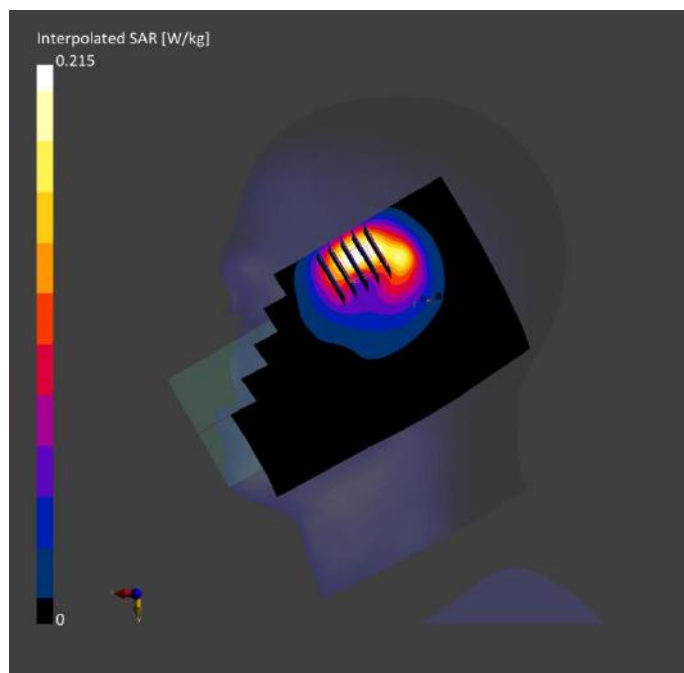
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-02	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-02	2023-03-02
psSAR1g [W/kg]	0.115	0.110
psSAR10g [W/kg]	0.071	0.059
Power Drift [dB]	0.04	0.04
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		9.6



Meas.36 Body Plane with Back Side 15mm on Middle Channel in LTE Band13 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 13	LTE- FDD, 10175 -CAH	782.0, 23230	10.96	0.92	40.8	22.3	21.1

Hardware Setup

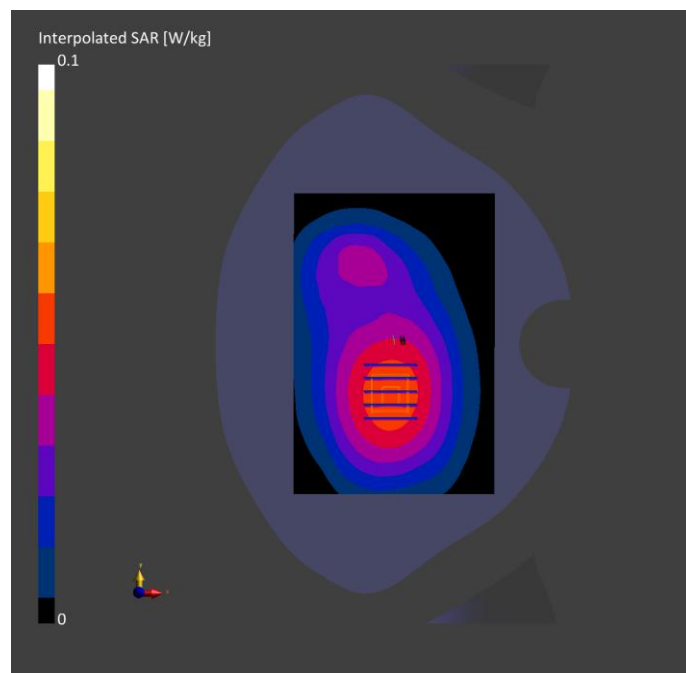
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-03-02	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-02	2023-03-02
psSAR1g [W/kg]	0.050	0.053
psSAR10g [W/kg]	0.036	0.040
Power Drift [dB]	-0.17	0.00
Power	Disabled	Disabled
Scaling		
Scaling		
Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		75.9
Dist 3dB Peak [mm]		13.2



Meas.37 Body Plane with Right Edge 10mm on Middle Channel in LTE Band13 mode with Antenna.1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE RIGHT, 10.00	Band 13	LTE- FDD, 10175 -CAH	782.0, 23230	10.96	0.92	40.8	22.3	21.1

Hardware Setup

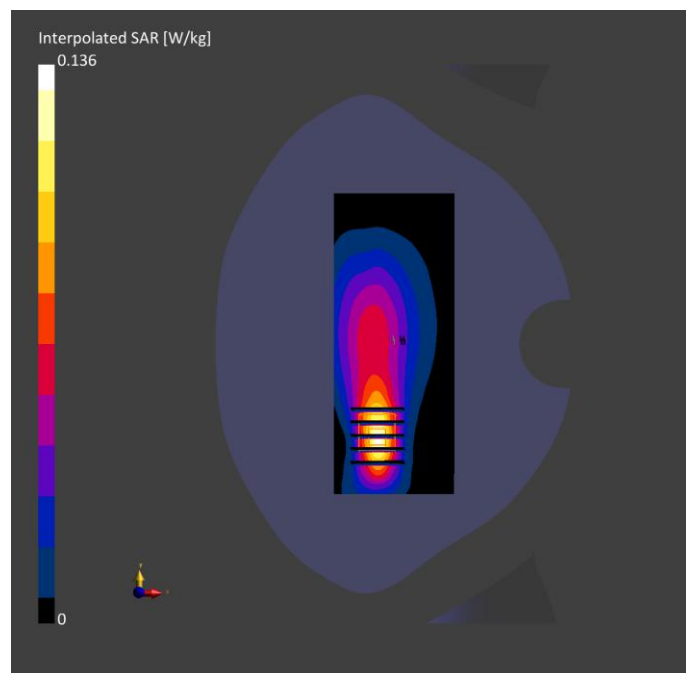
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-02	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-02	2023-03-02
psSAR1g [W/kg]	0.077	0.076
psSAR10g [W/kg]	0.046	0.042
Power Drift [dB]	0.01	0.05
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		9.6



Meas.38 Right Head with Cheek on Middle Channel in LTE Band17 mode with Antenna.1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 17	LTE- FDD, 10175 -CAH	709.0, 23780	10.96	0.87	43.3	22.4	21.3

Hardware Setup

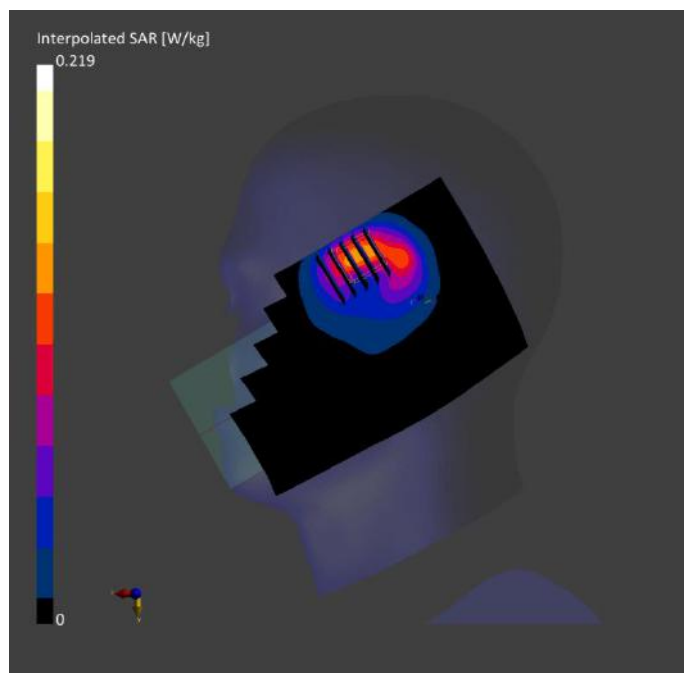
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-03	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-03	2023-03-03
psSAR1g [W/kg]	0.118	0.110
psSAR10g [W/kg]	0.074	0.059
Power Drift [dB]	0.03	-0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		8.2



Meas.39 Body Plane with Back Side 15mm on Middle Channel in LTE Band17 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 17	LTE- FDD, 10175 -CAH	709.0, 23780	10.96	0.87	43.3	22.4	21.3

Hardware Setup

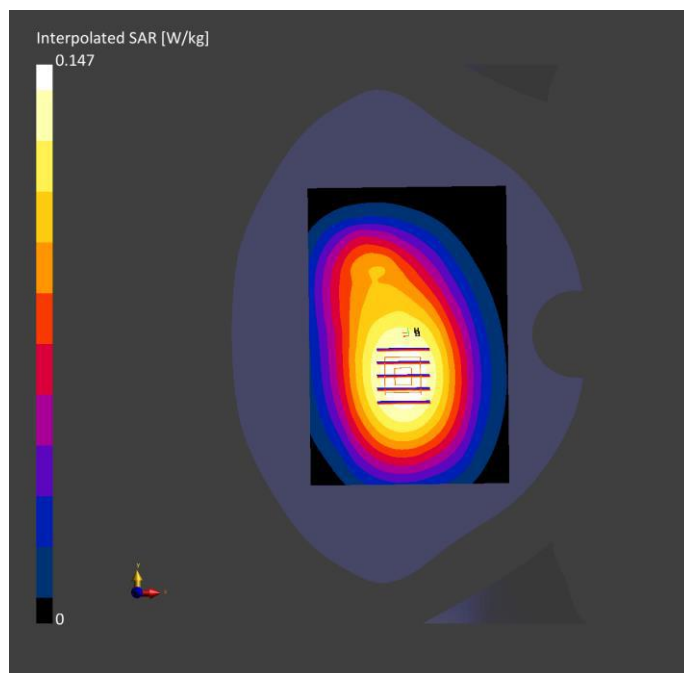
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-03	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-03	2023-03-03
psSAR1g [W/kg]	0.107	0.113
psSAR10g [W/kg]	0.077	0.087
Power Drift [dB]	0.00	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.1
Dist 3dB Peak [mm]		13.4



Meas.40 Body Plane with Right Edge 10mm on Middle Channel in LTE Band17 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE RIGHT, 10.00	Band 17	LTE- FDD, 10175 -CAH	709.0, 23780	10.96	0.87	43.3	22.4	21.3

Hardware Setup

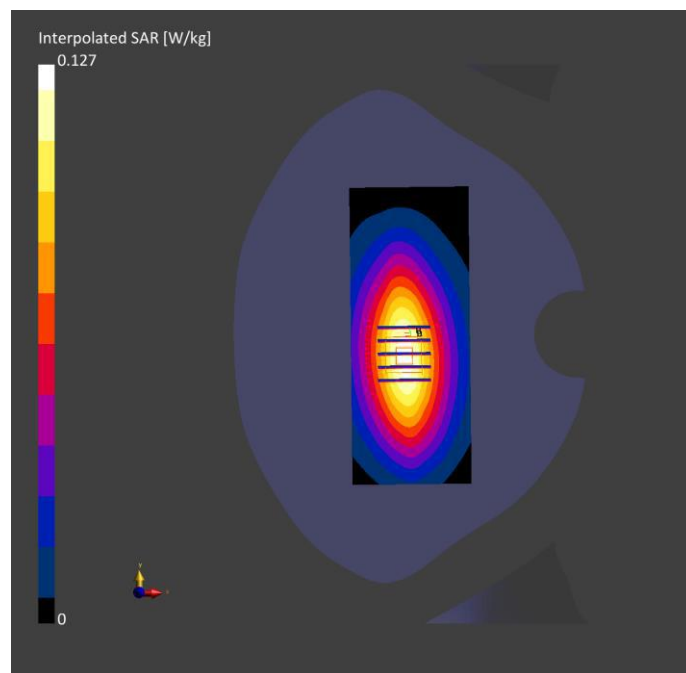
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-03	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-03	2023-03-03
psSAR1g [W/kg]	0.084	0.086
psSAR10g [W/kg]	0.058	0.059
Power Drift [dB]	-0.00	0.06
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		66.8
Dist 3dB Peak [mm]		14.2



Meas.41 Right Head with Cheek on High Channel in LTE Band26 mode with Antenna.1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 26	LTE- FDD, 10181 -CAF	841.5, 26965	10.44	0.91	40.9	22.1	20.9

Hardware Setup

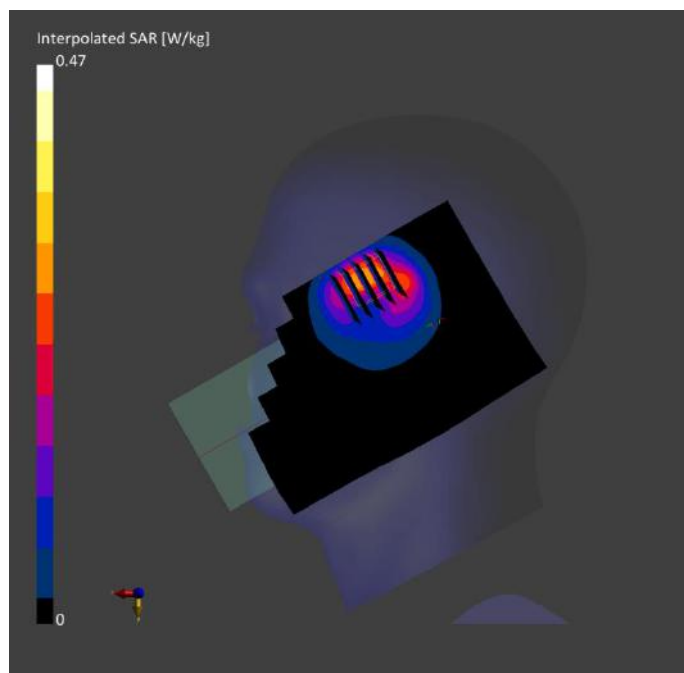
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-05	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-05	2023-03-05
psSAR1g [W/kg]	0.262	0.247
psSAR10g [W/kg]	0.162	0.133
Power Drift [dB]	0.03	-0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		9.9



Meas.42 Body Plane with Back Side 15mm on High Channel in LTE Band26 mode with Antenna.0

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 26	LTE- FDD, 10181 -CAF	841.5, 26965	10.44	0.91	40.9	22.1	20.9

Hardware Setup

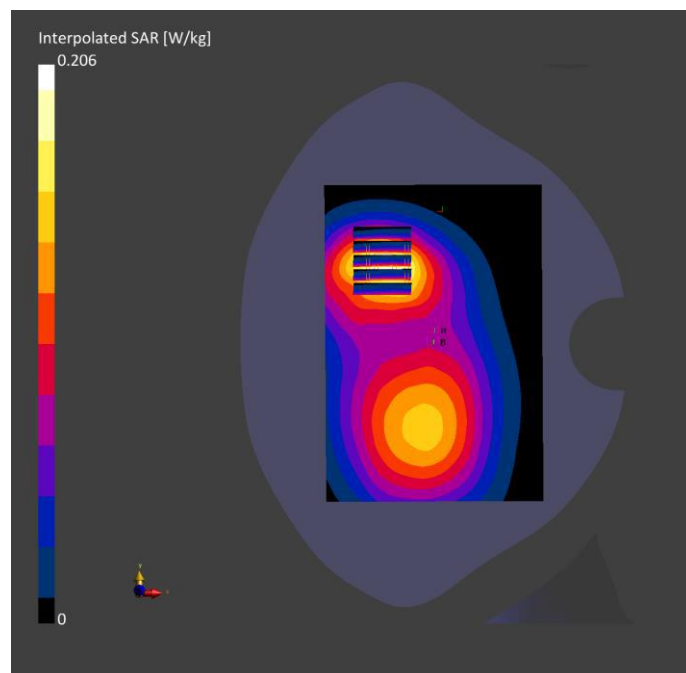
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-05	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-05	2023-03-05
psSAR1g [W/kg]	0.129	0.129
psSAR10g [W/kg]	0.084	0.081
Power Drift [dB]	0.01	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		17.2



Meas.43 Body Plane with Back Side 10mm on High Channel in LTE Band26 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 26	LTE- FDD, 10181 -CAF	841.5, 26965	10.44	0.91	40.9	22.1	20.9

Hardware Setup

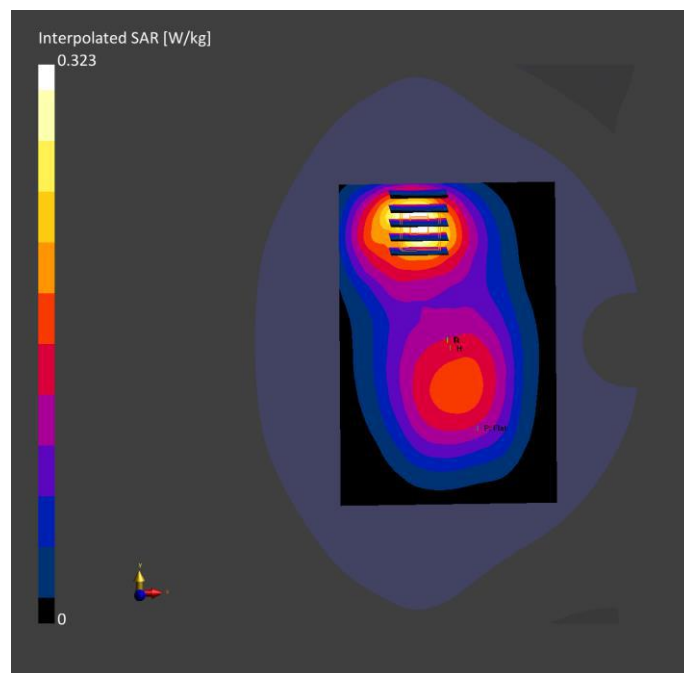
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-05	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-05	2023-03-05
psSAR1g [W/kg]	0.195	0.197
psSAR10g [W/kg]	0.128	0.120
Power Drift [dB]	0.02	0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.5
Dist 3dB Peak [mm]		14.8



Meas.44 Right Head with Cheek on High Channel in LTE Band66 mode with Antenna.1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 66	LTE- FDD, 10169 -CAF	1770.0, 132572	8.69	1.41	39.0	22.0	21.1

Hardware Setup

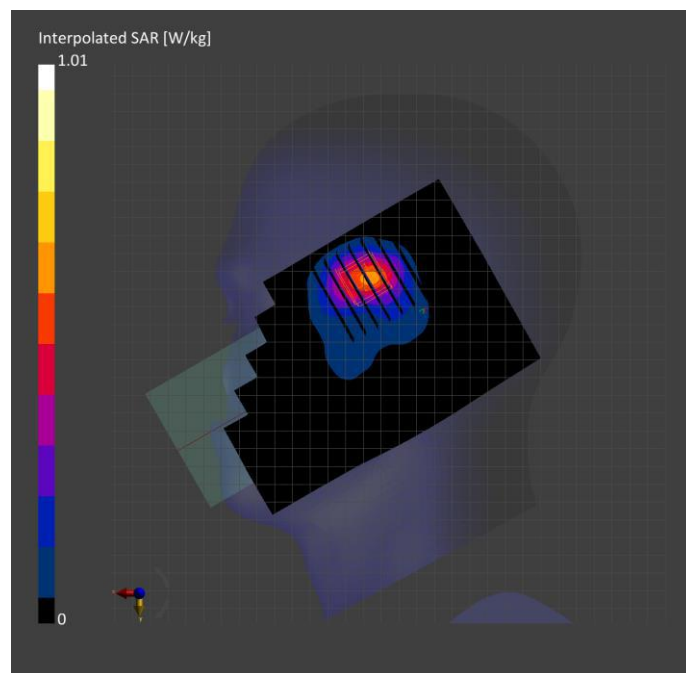
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-10	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-10	2023-03-10
psSAR1g [W/kg]	0.504	0.589
psSAR10g [W/kg]	0.279	0.308
Power Drift [dB]	-0.42	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.3
Dist 3dB Peak [mm]		9.6



Meas.45 Body Plane with Back Side 15mm on Middle Channel in LTE Band66 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 66	LTE- FDD, 10169 -CAF	1745.0, 132322	8.69	1.36	41.3	22.0	21.1

Hardware Setup

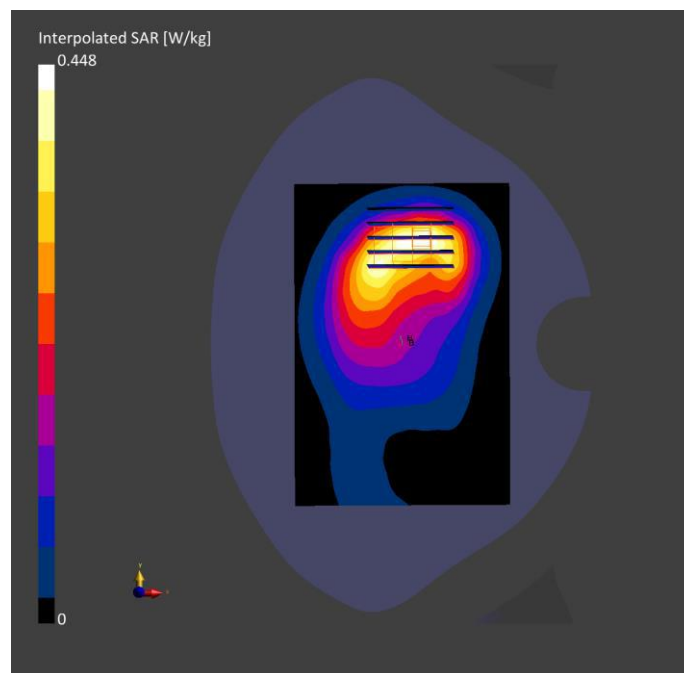
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-10	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-10	2023-03-10
psSAR1g [W/kg]	0.274	0.274
psSAR10g [W/kg]	0.163	0.167
Power Drift [dB]	0.01	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		13.7



Meas.46 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band66 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band 66	LTE- FDD, 10169 -CAF	1745.0, 132322	8.69	1.36	41.3	22.0	21.1

Hardware Setup

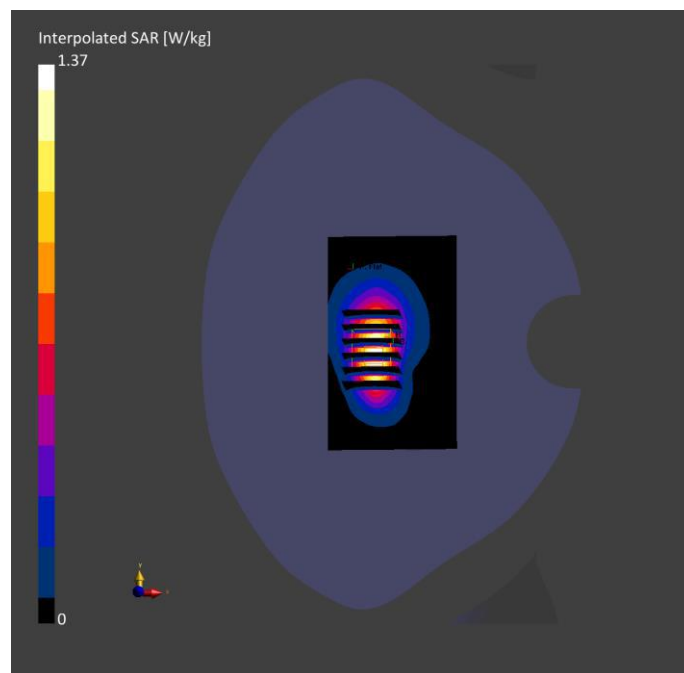
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-03-10	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-10	2023-03-10
psSAR1g [W/kg]	0.728	0.758
psSAR10g [W/kg]	0.391	0.411
Power Drift [dB]	-0.03	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		9.6



Meas.47 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band66 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 0.00	Band 66	LTE- FDD, 10169 -CAF	1745.0, 132322	8.69	1.36	41.3	22.0	21.1

Hardware Setup

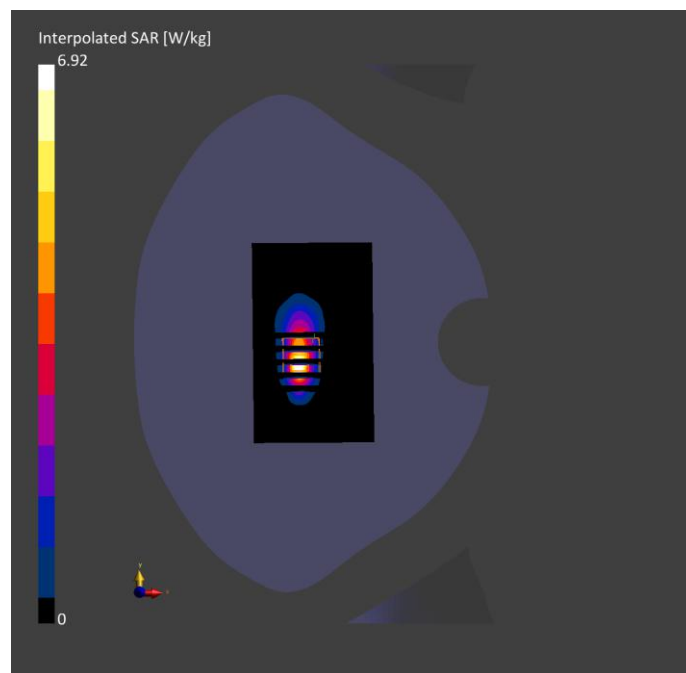
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-03-10	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-10	2023-03-10
psSAR1g [W/kg]	2.63	2.58
psSAR10g [W/kg]	1.10	1.03
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		37.8
Dist 3dB Peak [mm]		4.8



Meas.48 Right Head with Tilt on Middle Channel in LTE Band38 mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 38	LTE- TDD, 10172 -CAH	2595.0, 38000	7.56	1.93	39.5	22.1	21.0

Hardware Setup

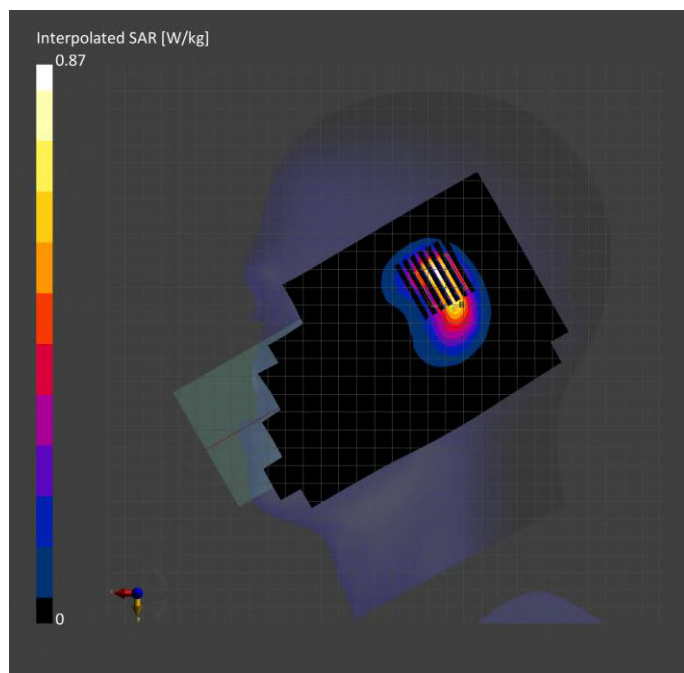
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-19	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-19	2023-03-19
psSAR1g [W/kg]	0.380	0.396
psSAR10g [W/kg]	0.177	0.175
Power Drift [dB]	-0.02	-0.04
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.9
Dist 3dB Peak [mm]		6.1



Meas.49 Body Plane with Back Side 15mm on High Channel in LTE Band38 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 38	LTE- TDD, 10172 -CAH	2610.0, 38150	7.56	1.99	37.7	22.3	21.3

Hardware Setup

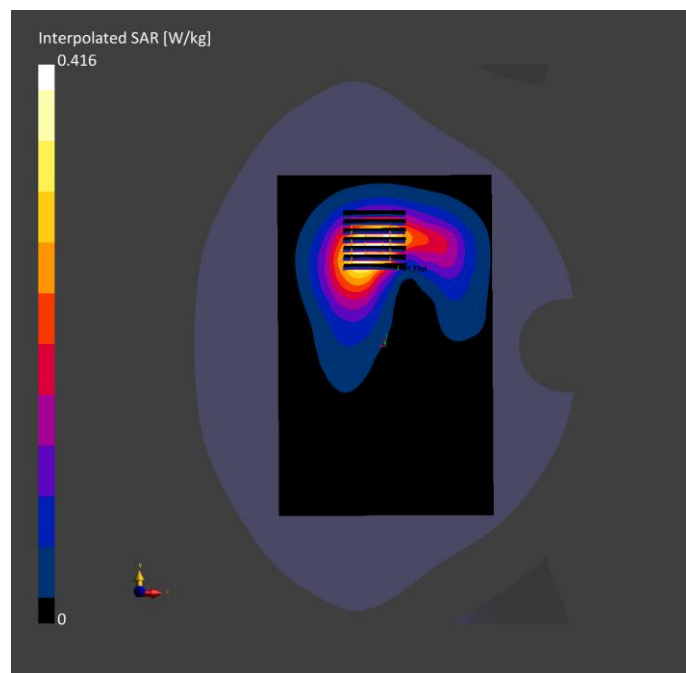
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-19	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-19	2023-03-19
psSAR1g [W/kg]	0.214	0.224
psSAR10g [W/kg]	0.114	0.118
Power Drift [dB]	-0.00	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		11.4



Meas.50 Body Plane with Bottom Edge 10mm on High Channel in LTE Band38 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	Band 38	LTE- TDD, 10172 -CAH	2610.0, 38150	7.56	1.99	37.7	22.3	21.3

Hardware Setup

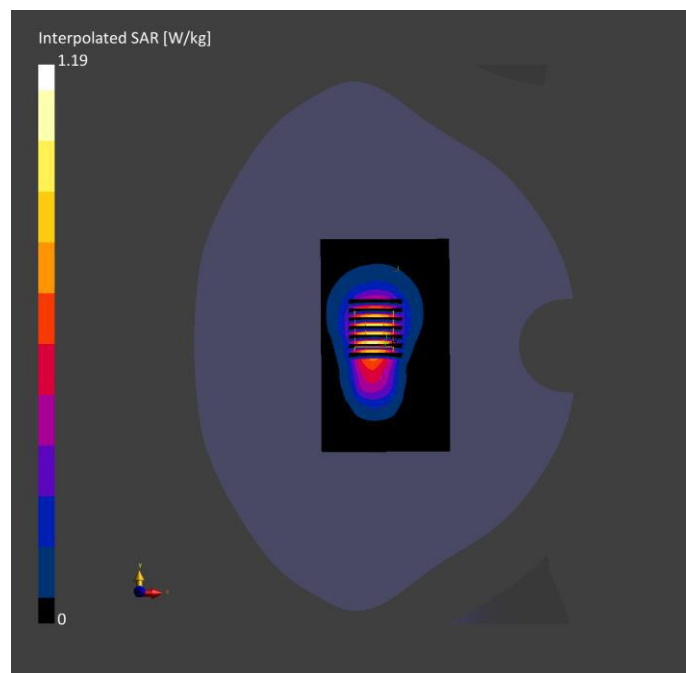
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-19	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA Surface	N/A	N/A
Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-19	2023-03-19
psSAR1g [W/kg]	0.537	0.616
psSAR10g [W/kg]	0.275	0.297
Power Drift [dB]	-0.01	0.01
Power	Disabled	Disabled
Scaling		
Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.5
Dist 3dB Peak [mm]		10.0



Meas.51 Right Head with Tilt on Middle Channel in LTE Band41 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 41	LTE- TDD, 10172 -CAH	2593.0, 40620	7.56	1.96	38.7	22.2	21.2

Hardware Setup

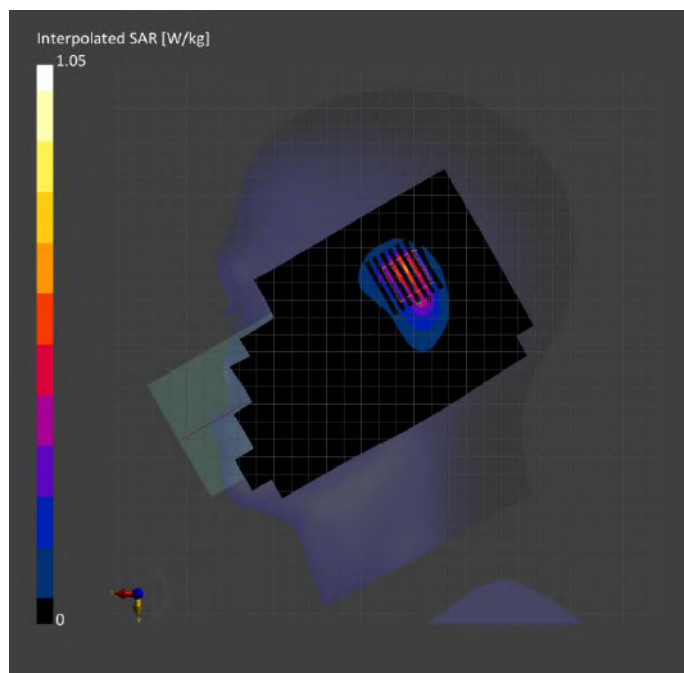
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-21	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-21	2023-03-21
psSAR1g [W/kg]	0.476	0.493
psSAR10g [W/kg]	0.224	0.221
Power Drift [dB]	0.03	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.5
Dist 3dB Peak [mm]		7.1



Meas.52 Body Plane with Back Side 15mm on Middle Channel in LTE Band41 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 41	LTE- TDD, 10172 -CAH	2593.0, 40620	7.56	1.96	38.7	22.2	21.2

Hardware Setup

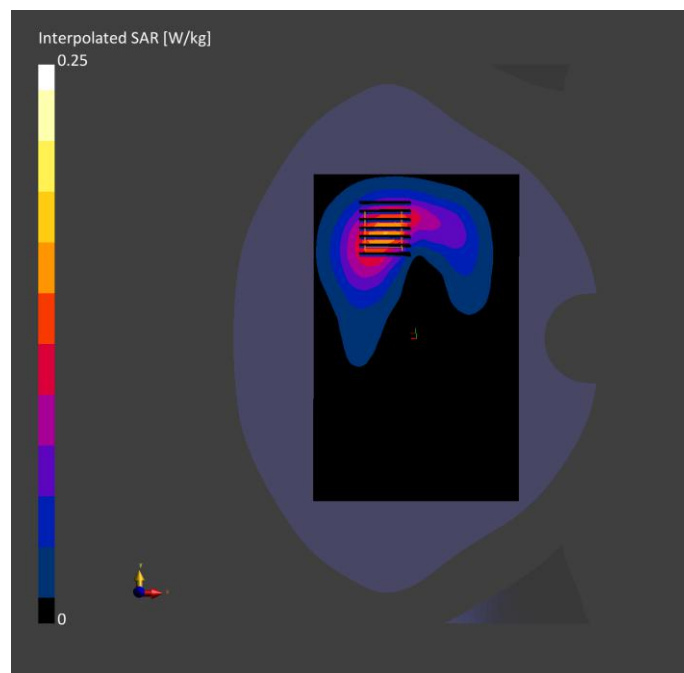
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-21	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-21	2023-03-21
psSAR1g [W/kg]	0.136	0.137
psSAR10g [W/kg]	0.072	0.073
Power Drift [dB]	0.02	0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		11.4



Meas.53 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band41 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band 41	LTE- TDD, 10172 -CAH	2593.0, 40620	7.56	1.96	38.7	22.2	21.2

Hardware Setup

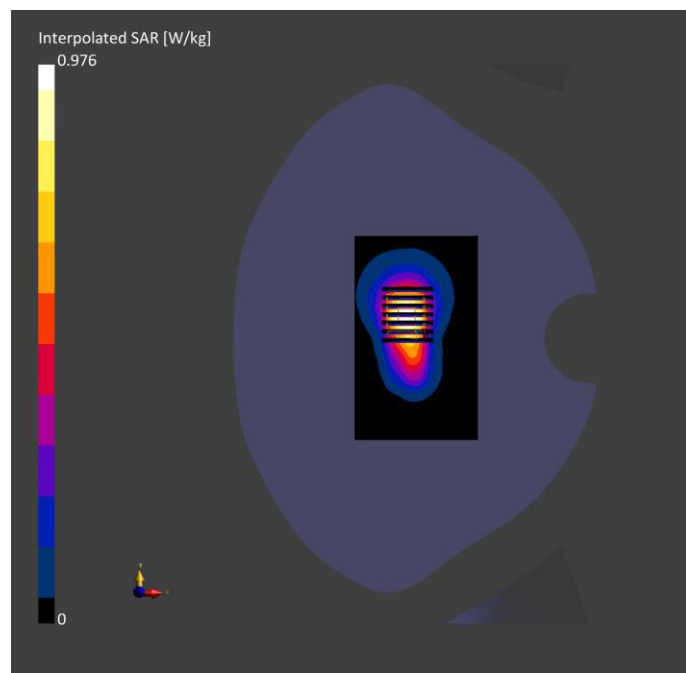
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-21	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-21	2023-03-21
psSAR1g [W/kg]	0.441	0.499
psSAR10g [W/kg]	0.221	0.237
Power Drift [dB]	-0.00	0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.9
Dist 3dB Peak [mm]		9.0



Meas.54 Body Plane with Bottom Edge 0mm on Middle Channel in LTE Band41 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 0.00	Band 41	LTE- TDD, 10172 -CAH	2593.0, 40620	7.56	1.96	38.7	22.2	21.2

Hardware Setup

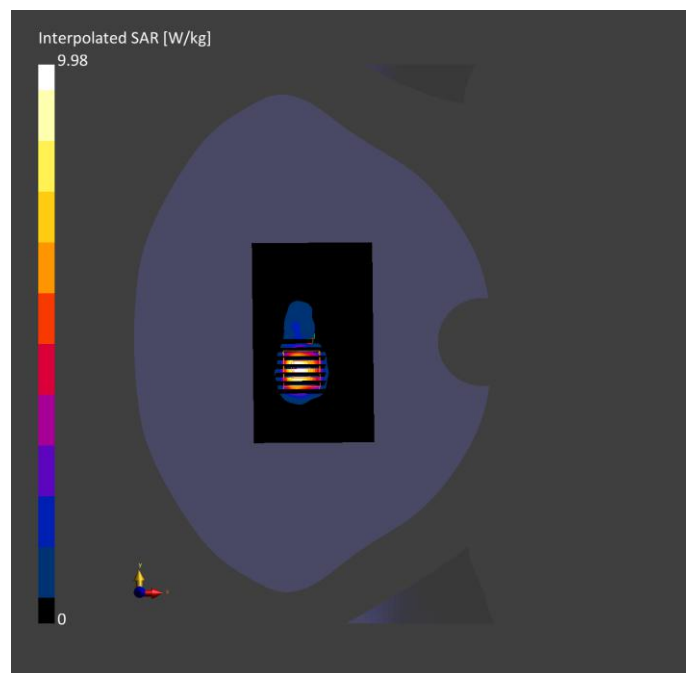
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-03-21	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-21	2023-03-21
psSAR1g [W/kg]	2.50	3.67
psSAR10g [W/kg]	1.06	1.24
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		35.8
Dist 3dB Peak [mm]		5.0



Meas.55 Right Head with Cheek on 167300 Channel in NR Band5 mode with Antenna.1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band 5	5G NR FR1 FDD, 10931 -AAC	836.5, 167300	10.44	0.91	41.3	22.0	21.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-06	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

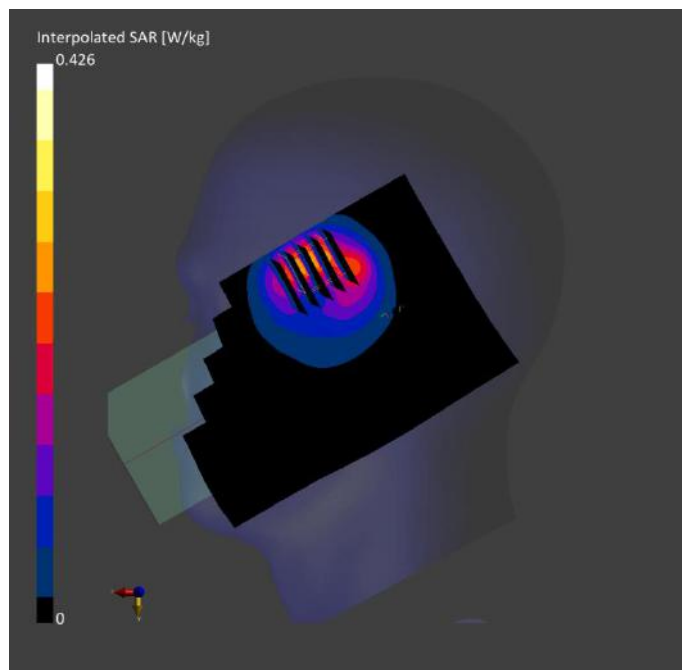
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-06	2023-03-06
psSAR1g [W/kg]	0.234	0.223
psSAR10g [W/kg]	0.145	0.121
Power Drift [dB]	-0.04	0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.8

Dist 3dB Peak
[mm]

9.7



Meas.56 Body Plane with Back Side 15mm on 167300 Channel in NR Band5 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 5	5G NR FR1 FDD, 10931 -AAC	836.5, 167300	10.44	0.91	41.3	22.0	21.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-06	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

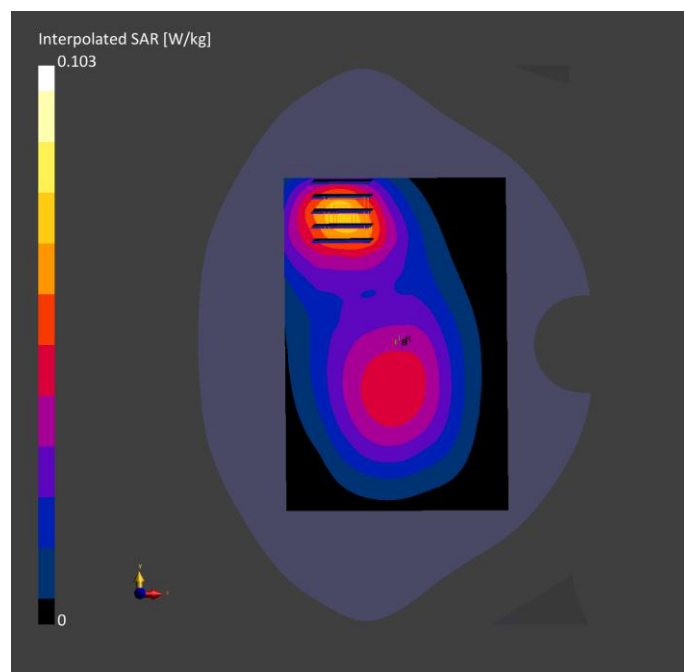
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-06	2023-03-06
psSAR1g [W/kg]	0.065	0.066
psSAR10g [W/kg]	0.043	0.042
Power Drift [dB]	0.01	0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.5

Dist 3dB Peak
[mm]

15.0



Meas.57 Body Plane with Back Side 10mm on 167300 Channel in NR Band5 mode with Antenna.0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 10.00	Band 5	5G NR FR1 FDD, 10931 -AAC	836.5, 167300	10.44	0.91	41.3	22.0	21.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-06	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

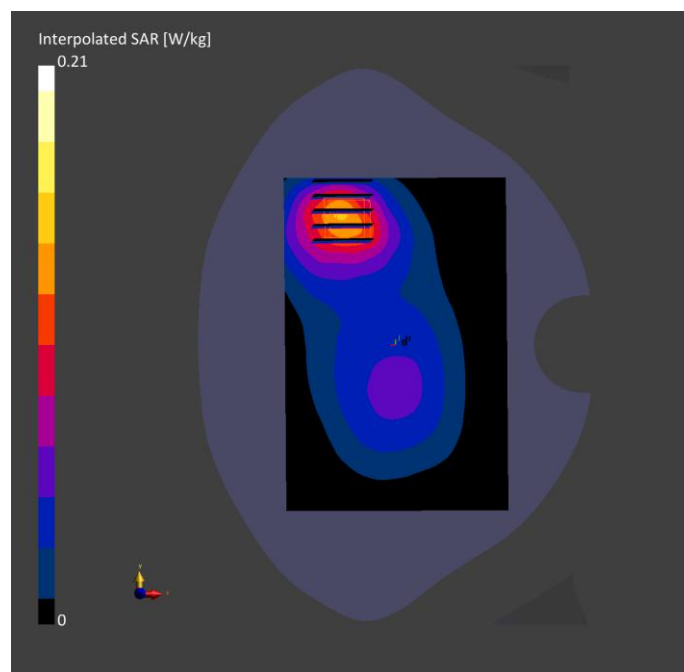
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-06	2023-03-06
psSAR1g [W/kg]	0.123	0.126
psSAR10g [W/kg]	0.082	0.077
Power Drift [dB]	-0.05	-0.03
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.3

Dist 3dB Peak
[mm]

14.8



Meas.58 Right Head with Tilted on 507000 Channel in NR Band7 mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band 7	5G NR FR1 FDD, 10939 -AAC	2535.0, 507000	7.56	1.87	39.3	22.4	21.4

Hardware Setup

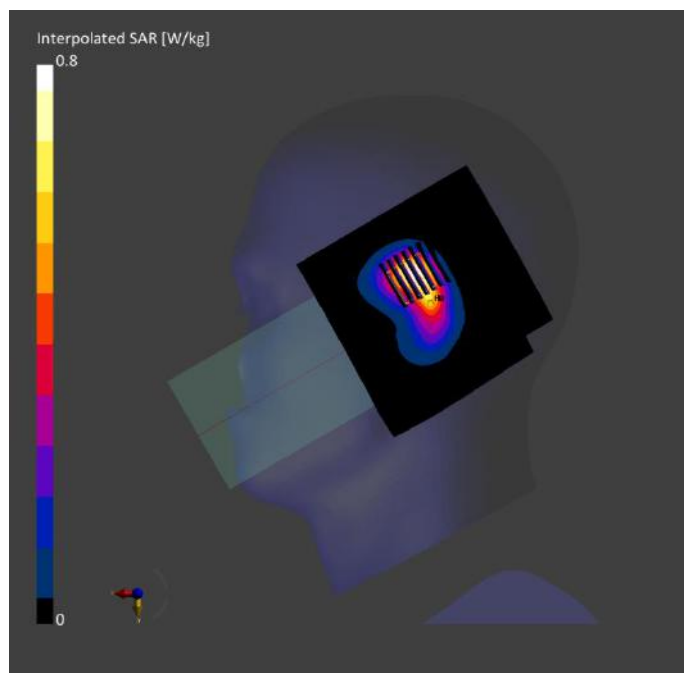
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-14	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-14	2023-04-14
psSAR1g [W/kg]	0.690	0.686
psSAR10g [W/kg]	0.317	0.307
Power Drift [dB]	-0.11	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.7
Dist 3dB Peak [mm]		7.0



Meas.59 Plane with Back Side 15mm on 507000 Channel in NR Band7 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band 7	5G NR FR1 FDD, 10931 -AAC	2535.0, 507000	7.56	1.87	39.4	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-23	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

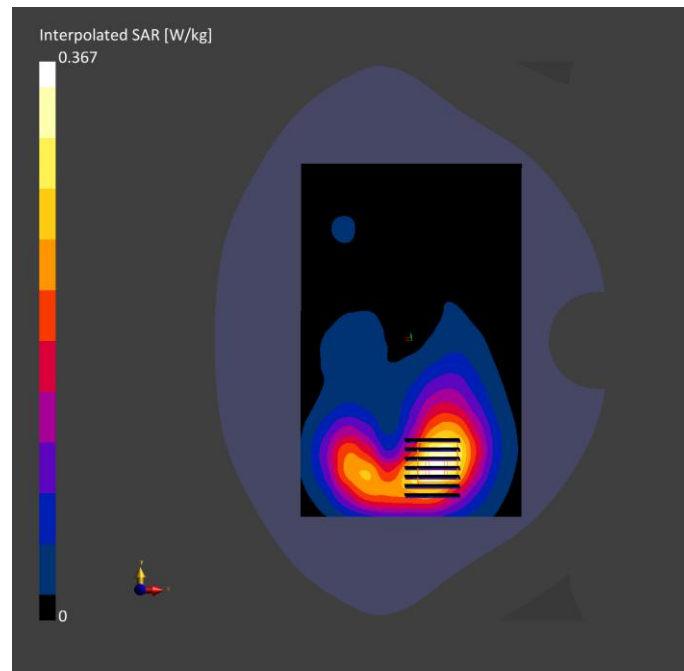
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-23	2023-03-23
psSAR1g [W/kg]	0.207	0.208
psSAR10g [W/kg]	0.112	0.116
Power Drift [dB]	-0.05	-0.03
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.5

Dist 3dB Peak
[mm]

15.6



Meas.60 Body Plane with Bottom Edge 10mm on 507000 Channel in NR Band7 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band n7	5G NR FR1 FDD, 10939 -AAC	2535.0, 507000	7.56	1.87	39.4	22.3	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03- 23	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

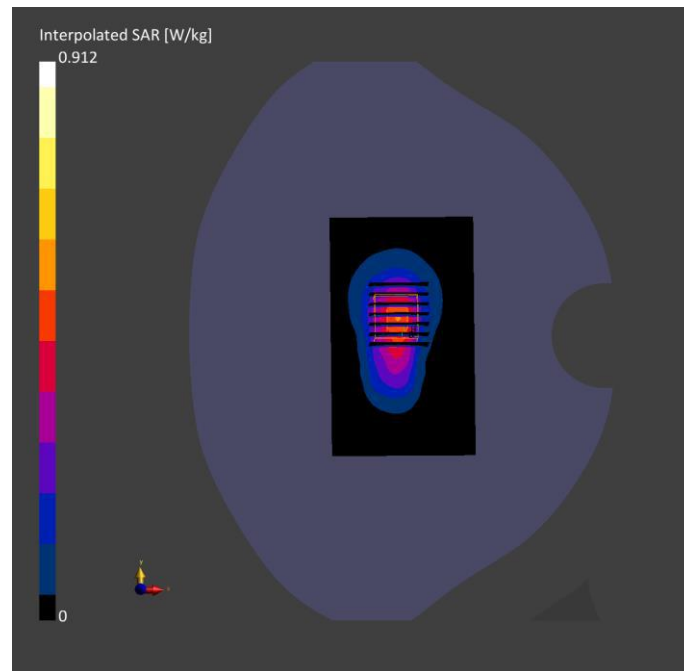
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-23	2023-03-23
psSAR1g [W/kg]	0.426	0.476
psSAR10g [W/kg]	0.215	0.234
Power Drift [dB]	0.03	-0.00
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.0

Dist 3dB Peak
[mm]

9.8



Meas.61 Body Plane with Top Edge 0mm on 507000 Channel in NR Band7 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band 7	5G NR FR1 FDD, 10939 -AAC	2535.0, 507000	7.56	1.87	39.3	22.4	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-14	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

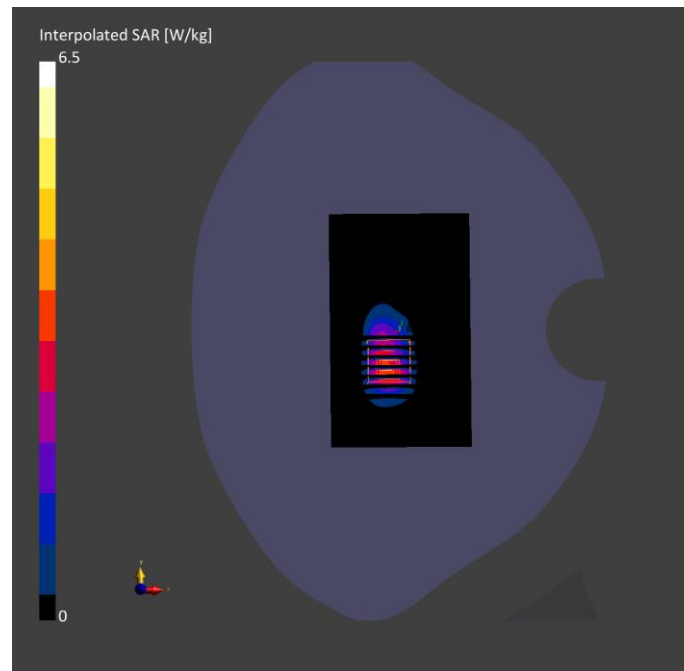
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-14	2023-04-14
psSAR1g [W/kg]	2.81	4.50
psSAR10g [W/kg]	1.29	1.57
Power Drift [dB]	-0.01	-0.03
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		34.6

Dist 3dB Peak
[mm]

5.0



Meas.62 Right Head with Tilted on 519000 Channel in NR Band38 mode with Antenna.4

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band n38	5G NR FR1 TDD, 10794 -AAE	2595.0, 519000	7.56	1.94	38.9	22.4	21.4

Hardware Setup

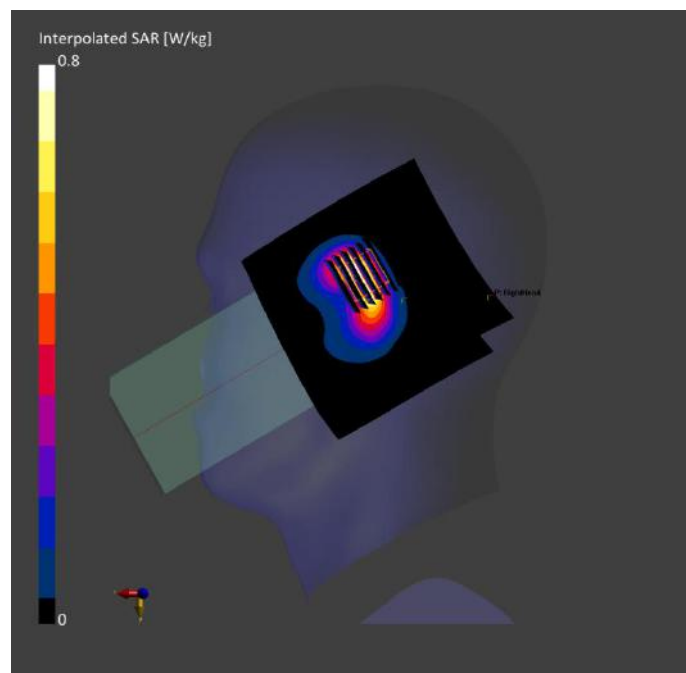
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-14	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-14	2023-04-14
psSAR1g [W/kg]	0.688	0.684
psSAR10g [W/kg]	0.306	0.294
Power Drift [dB]	0.04	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.6
Dist 3dB Peak [mm]		6.7



Meas.63 Body Plane with Back Side 15mm on 519000 Channel in NR Band38 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band n38	5G NR FR1 TDD, 10900 -AAC	2595.0, 519000	7.56	1.93	39.5	22.1	21.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-25	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

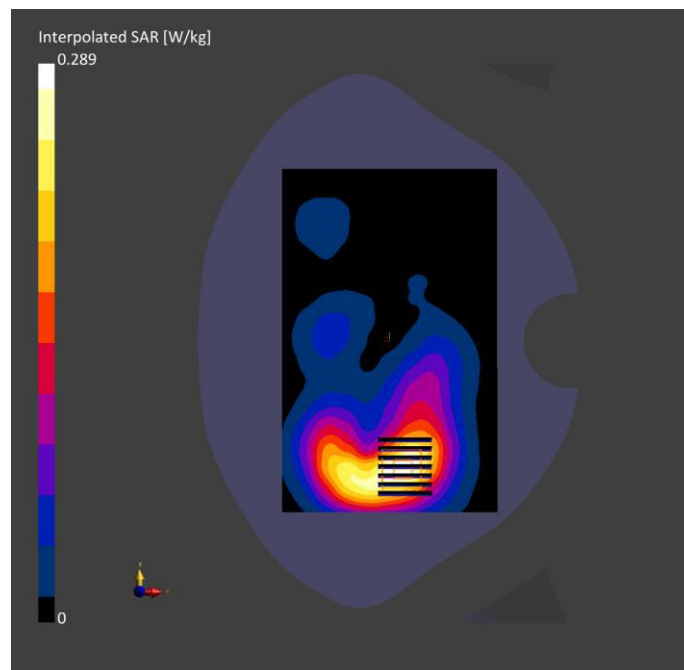
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-25	2023-03-25
psSAR1g [W/kg]	0.163	0.162
psSAR10g [W/kg]	0.088	0.089
Power Drift [dB]	-0.01	-0.03
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.4

Dist 3dB Peak
[mm]

15.8



Meas.64 Body Plane with Bottom Edge 10mm on 519000 Channel in NR Band38 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band n38	5G NR FR1 TDD, 10900 -AAC	2595.0, 519000	7.56	1.93	39.5	22.1	21.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03- 25	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

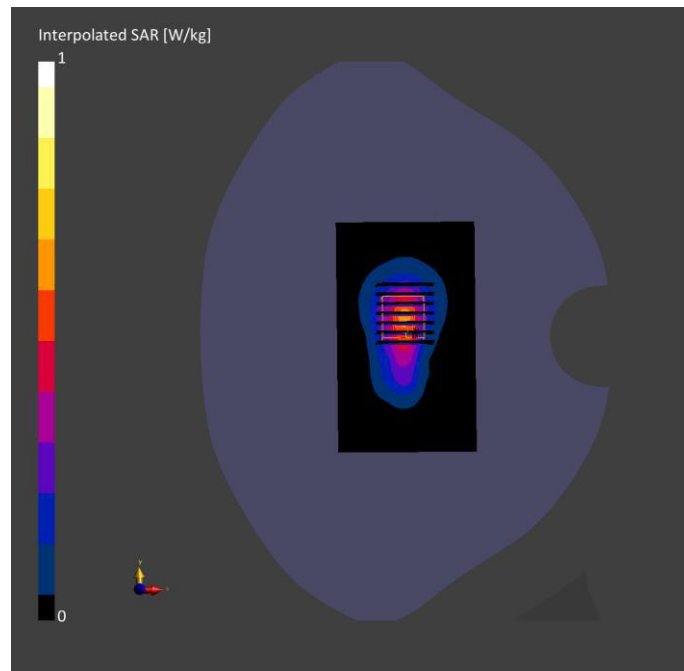
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-25	2023-03-25
psSAR1g [W/kg]	0.485	0.523
psSAR10g [W/kg]	0.231	0.252
Power Drift [dB]	-0.03	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.2

Dist 3dB Peak
[mm]

9.2



Meas.65 Body Plane with Top Edge 0mm on 519000 Channel in NR Band38 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band d n38	5G NR FR1 TDD, 10900 -AAC	2595.0, 519000	7.56	1.94	38.9	22.4	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04- 14	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

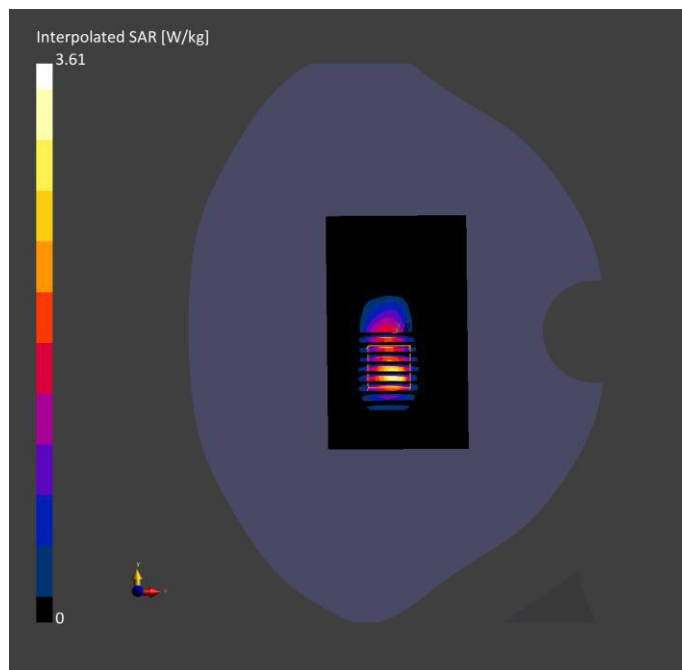
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-14	2023-04-14
psSAR1g [W/kg]	2.34	3.61
psSAR10g [W/kg]	0.971	1.20
Power Drift [dB]	0.00	0.02
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		33.9

Dist 3dB Peak
[mm]

5.0



Meas.66 Right Head with Tilted on 518598 Channel in NR Band41 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	TILT, 0.00	Band n41	5G NR FR1 TDD, 10803 -AAF	2592.99, 518598	7.56	1.98	40.3	22.3	21.3

Hardware Setup

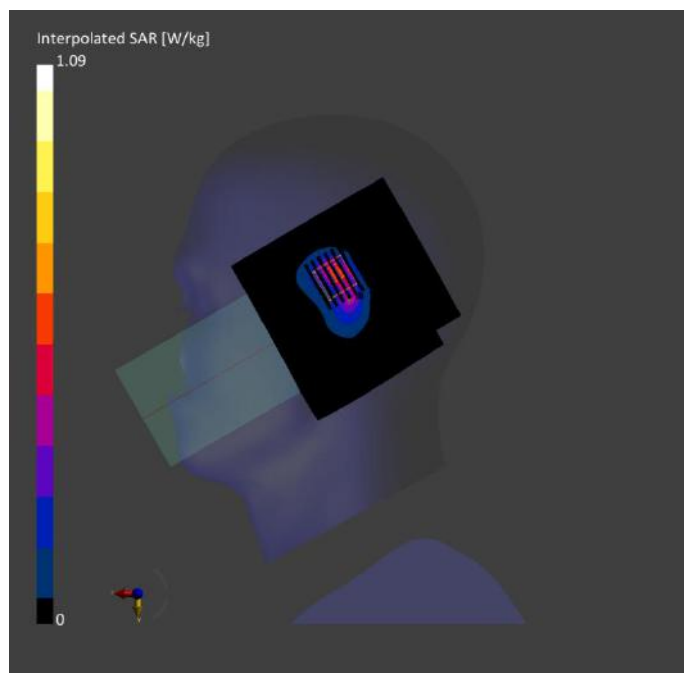
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-15	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	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	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-15	2023-04-15
psSAR1g [W/kg]	0.459	0.462
psSAR10g [W/kg]	0.204	0.200
Power Drift [dB]	0.01	0.03
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.4
Dist 3dB Peak [mm]		7.0



Meas.67 Body Plane with Back Side 15mm on 518598 Channel in NR Band41 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band d n41	5G NR FR1 TDD, 10917 -AAD	2592.99, 518598	7.56	1.95	39.3	22.0	20.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03- 27	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

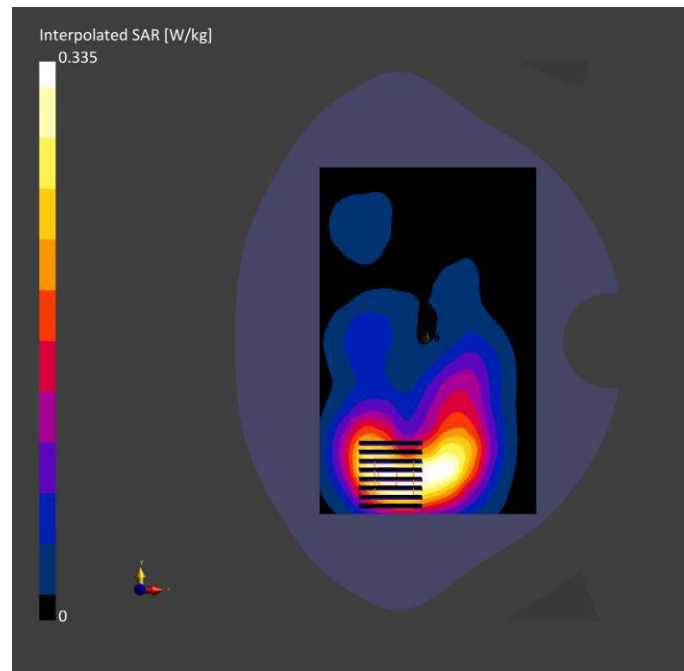
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-27	2023-03-27
psSAR1g [W/kg]	0.179	0.181
psSAR10g [W/kg]	0.099	0.098
Power Drift [dB]	-0.02	0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.7

Dist 3dB Peak
[mm]

13.9



Meas.68 Body Plane with Bottom Edge 10mm on 518598 Channel in NR Band41 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band 41	5G NR FR1 TDD, 10917 -AAD	2592.99, 518598	7.56	1.95	39.3	22.0	20.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03- 27	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

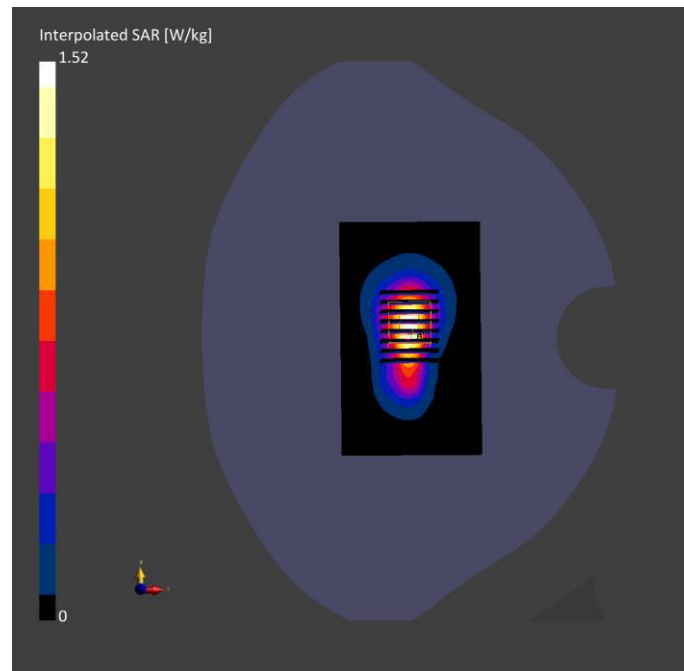
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-27	2023-03-27
psSAR1g [W/kg]	0.715	0.783
psSAR10g [W/kg]	0.332	0.366
Power Drift [dB]	0.00	-0.04
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.0

Dist 3dB Peak
[mm]

9.0



Meas.69 Body Plane with Top Edge 0mm on 518598 Channel in NR Band41 mode with Antenna.4
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	Band d n41	5G NR FR1 TDD, 10917 -AAD	2592.99, 518598	7.56	1.98	40.3	22.3	21.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04- 15	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

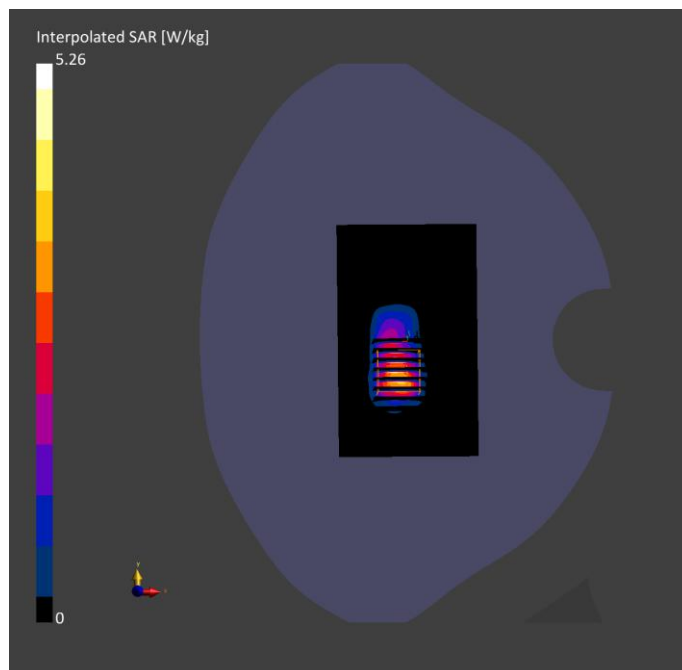
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-15	2023-04-15
psSAR1g [W/kg]	2.84	5.26
psSAR10g [W/kg]	1.28	1.65
Power Drift [dB]	-0.02	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		30.5

Dist 3dB Peak
[mm]

4.0



Meas.70 Right Head with Cheek on 349000 Channel in NR Band66 mode with Antenna.1
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Right Head, HSL	CHEEK , 0.00	Band d n66	5G NR FR1 FDD, 10931 -AAC	1745.0, 349000	8.69	1.37	41.0	22.1	21.1

Hardware Setup

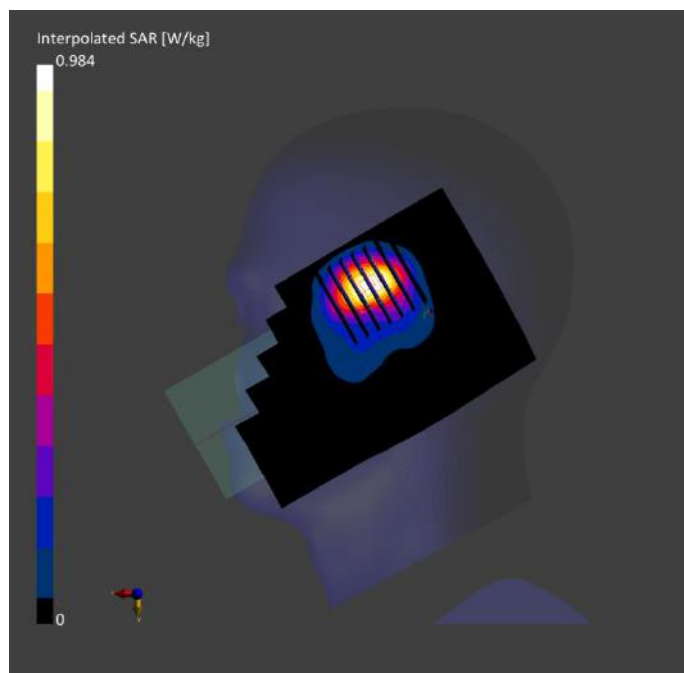
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-16	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-16	2023-04-16
psSAR1g [W/kg]	0.480	0.576
psSAR10g [W/kg]	0.268	0.302
Power Drift [dB]	0.01	0.08
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.1
Dist 3dB Peak [mm]		9.4



Meas.71 Body Plane with Back Side 15mm on 349000 Channel in NR Band66 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	Band n66	5G NR FR1 FDD, 10938 -AAC	1745.0, 349000	8.69	1.37	41.0	22.1	21.1

Hardware Setup

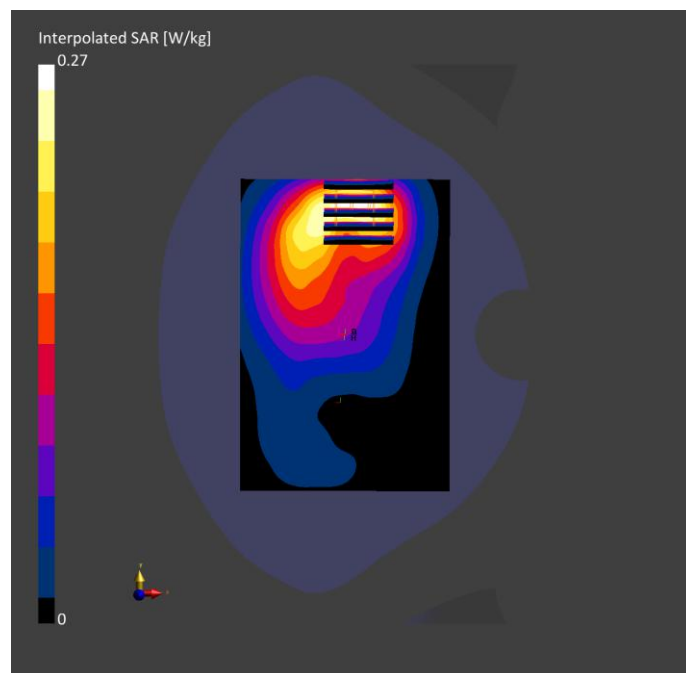
Phantom	TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-16	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-16	2023-04-16
psSAR1g [W/kg]	0.169	0.168
psSAR10g [W/kg]	0.102	0.102
Power Drift [dB]	-0.06	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.1
Dist 3dB Peak [mm]		14.8



Meas.72 Body Plane with Bottom Edge 10mm on 349000 Channel in NR Band66 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 10.00	Band n66	5G NR FR1 FDD, 10939 -AAC	1745.0, 349000	8.69	1.37	41.0	22.1	21.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04- 16	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

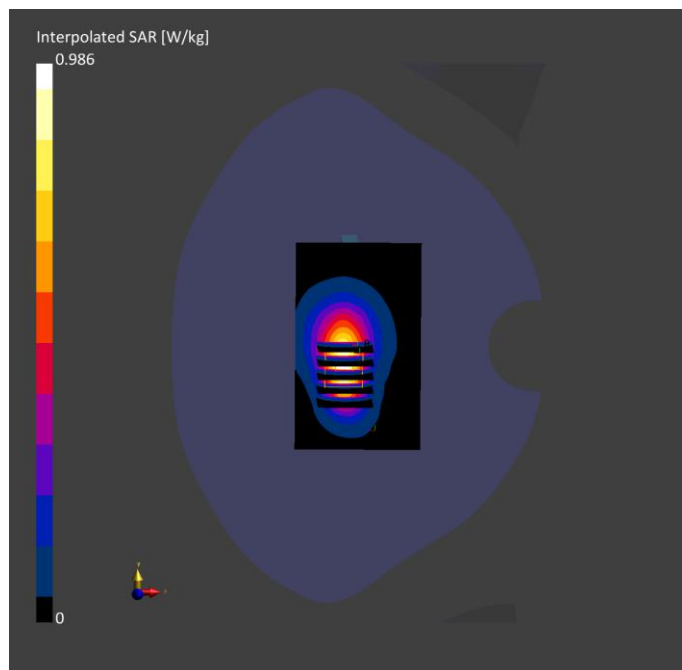
	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-16	2023-04-16
psSAR1g [W/kg]	0.543	0.548
psSAR10g [W/kg]	0.292	0.299
Power Drift [dB]	-0.01	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		56.6

Dist 3dB Peak
[mm]

10.7



Meas.73 Body Plane with Bottom Edge 0mm on 349000 Channel in NR Band66 mode with Antenna.3
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE BOTTO M, 0.00	Band n66	5G NR FR1 FDD, 10939 -AAC	1745.0, 349000	8.69	1.37	41.0	22.1	21.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04- 16	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

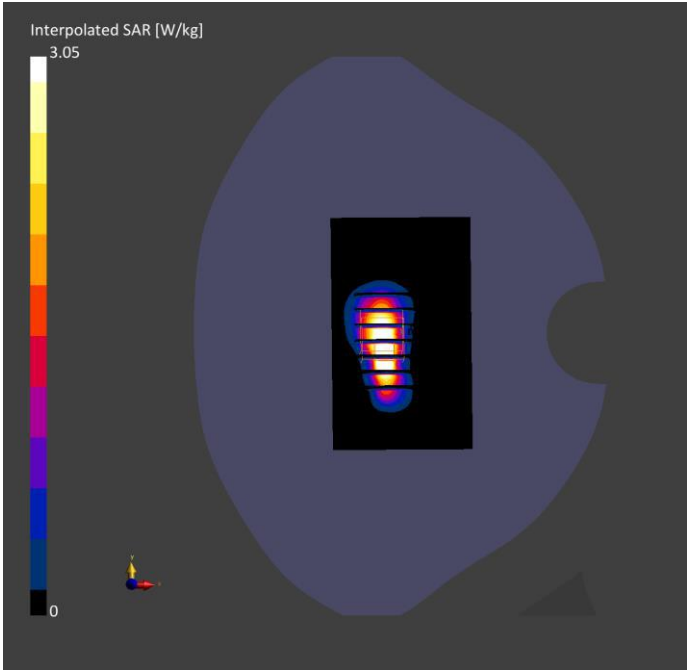
Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	9.0 x 15.0	8.0 x 8.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-16	2023-04-16
psSAR1g [W/kg]	3.15	3.05
psSAR10g [W/kg]	1.39	1.31
Power Drift [dB]	0.04	-0.06
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		31.5

Dist 3dB Peak 4.8
[mm]



Meas.74 Left Head with Cheek on 1 Channel in IEEE802.11b mode with Antenna.2&Antenna.8

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN 2.4G Hz	WLAN, 10012 -CAB	2412.0, 1	7.79	1.70	40.5	22.2	21.2

Hardware Setup

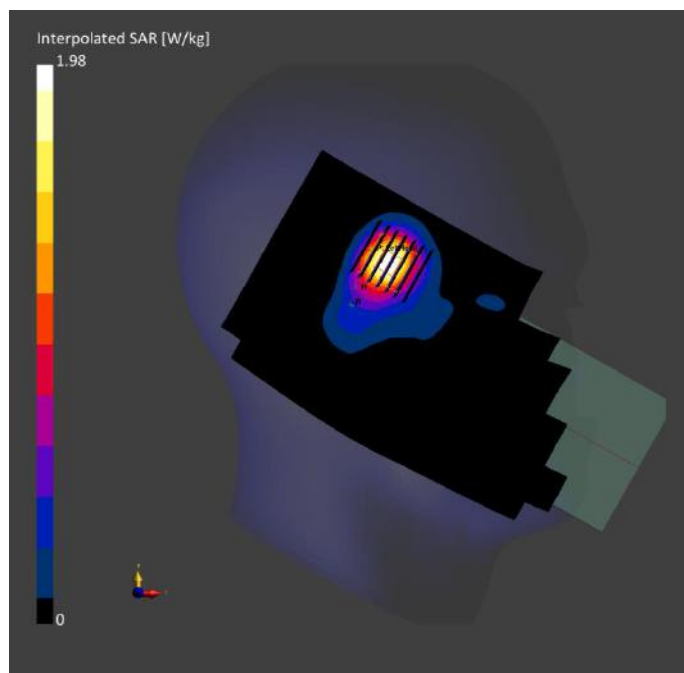
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-13	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-13	2023-04-13
psSAR1g [W/kg]	0.990	1.03
psSAR10g [W/kg]	0.487	0.501
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		12.0



Meas.75 Body Plane with Back Side 15mm on 6 Channel in IEEE802.11b mode with Antenna.2&Antenna.8
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLAN 2.4GHz	WLAN, 10012 -CAB	2437.0, 6	7.79	1.76	40.3	22.2	21.2

Hardware Setup

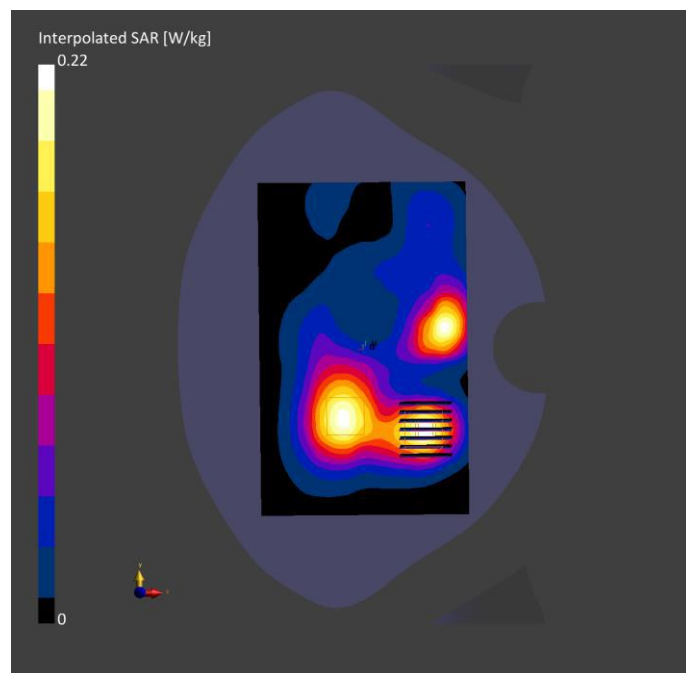
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-13	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-13	2023-04-13
psSAR1g [W/kg]	0.116	0.116
psSAR10g [W/kg]	0.064	0.061
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.4
Dist 3dB Peak [mm]		13.9



Meas.76 Body Plane with Left Edge 10mm on 6 Channel in IEEE802.11b mode with Antenna.2&Antenna.8
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE LEFT, 10.00	WLAN 2.4GHz	WLAN, 10012 -CAB	2437.0, 6	7.79	1.76	40.3	22.2	21.2

Hardware Setup

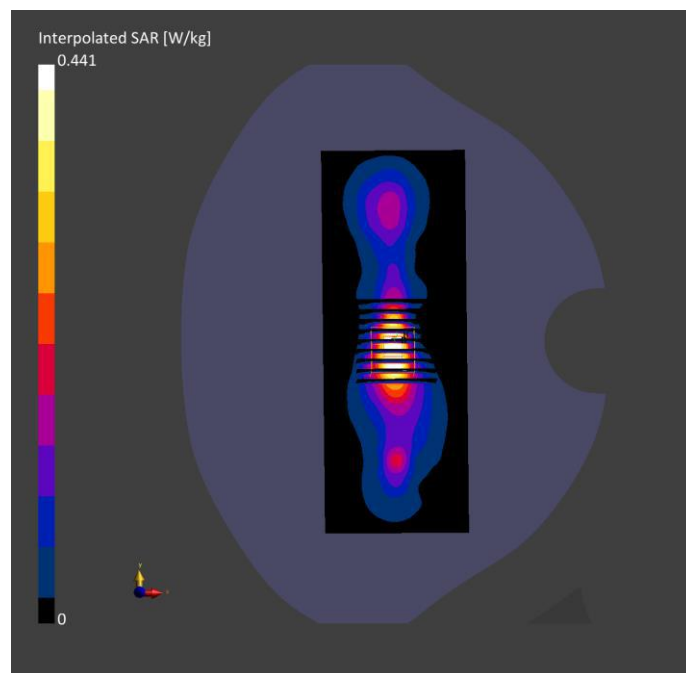
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-04-13	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-13	2023-04-13
psSAR1g [W/kg]	0.399	0.441
psSAR10g [W/kg]	0.173	0.187
Power Drift [dB]	-0.01	0.06
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		45.4
Dist 3dB Peak [mm]		7.0



Meas.77 Left Head with Cheek on 54 Channel in IEEE802.11n40 mode with Antenna.2&Antenna.7
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	CHEEK, 0.00	WLAN 5GHz	WLAN, 10114 -CAD	5270.0, 54	5.45	4.73	35.5	22.4	21.4

Hardware Setup

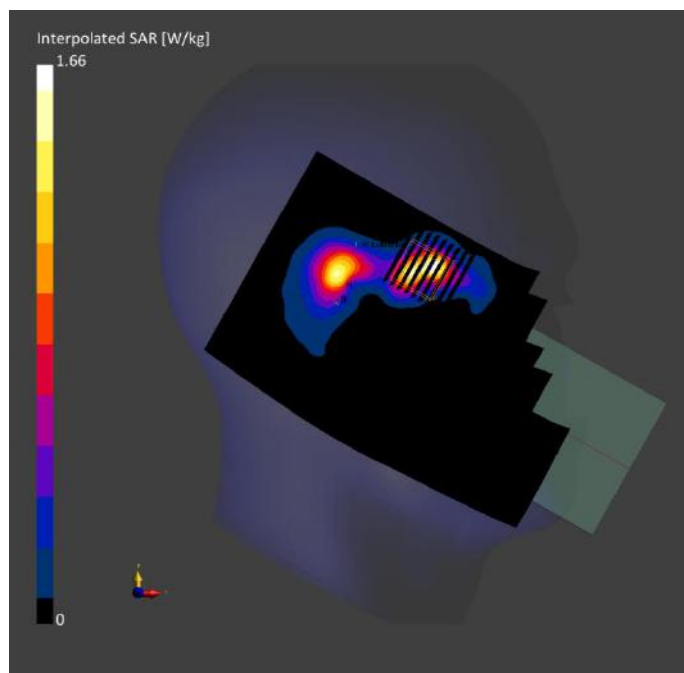
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-29	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-29	2023-03-29
psSAR1g [W/kg]	0.441	0.464
psSAR10g [W/kg]	0.154	0.161
Power Drift [dB]	-0.16	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		24.1
Dist 3dB Peak [mm]		1.1



Meas.78 Left Head with Tilt on 122 Channel in IEEE802.11ac80 mode with Antenna.2&Antenna.7
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
LeftHead, HSL	TILT, 0.00	WLAN N 5GHz	WLAN N, 10544 -AAC	5610.0, 122	4.9	5.07	35.1	22.1	21.1

Hardware Setup

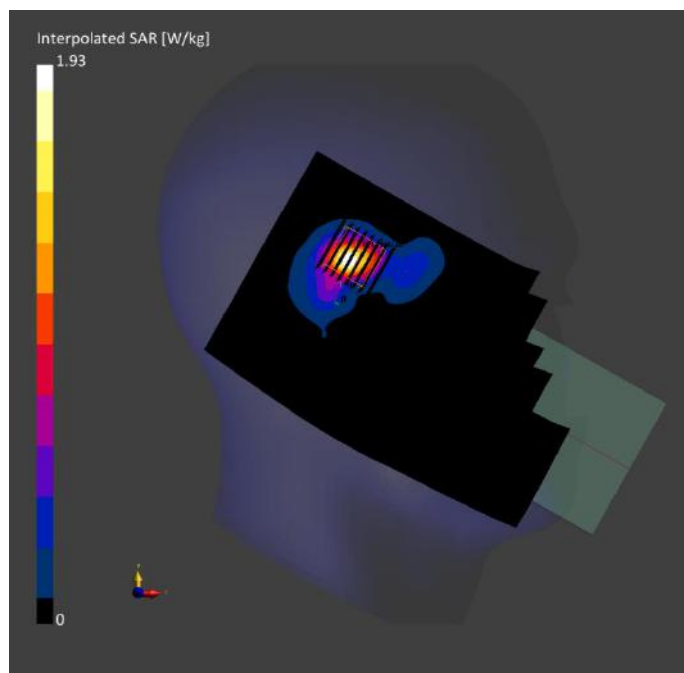
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-30	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-30	2023-03-30
psSAR1g [W/kg]	0.468	0.501
psSAR10g [W/kg]	0.153	0.166
Power Drift [dB]	0.17	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.7
Dist 3dB Peak [mm]		6.1



Meas.79 Left Head with Tilt on 155 Channel in IEEE 802.11ac80 mode with Antenna.7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Left Head, HSL	TILT, 0.00	WLA N 5GH z	WLA N, 10544 -AAC	5775.0, 155	5.0	5.22	35.3	22.6	21.7

Hardware Setup

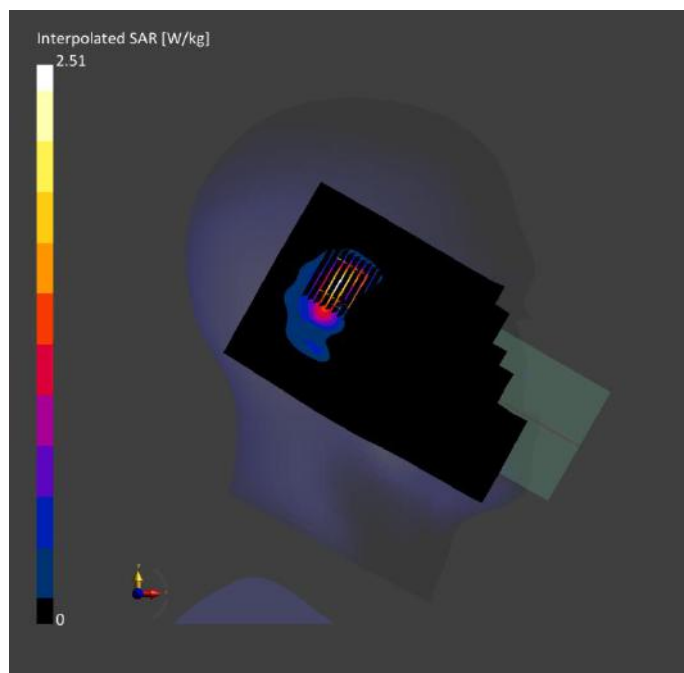
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-31	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-31	2023-03-31
psSAR1g [W/kg]	0.566	0.602
psSAR10g [W/kg]	0.185	0.185
Power Drift [dB]	-0.11	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		5.6



Meas.80 Body Plane with Back Side 15mm on 54 Channel in IEEE802.11n40 mode with Antenna.2&Antenna.7
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLA N 5GH z	WLA N, 10114 -CAD	5270.0, 54	5.45	4.73	35.5	22.4	21.4

Hardware Setup

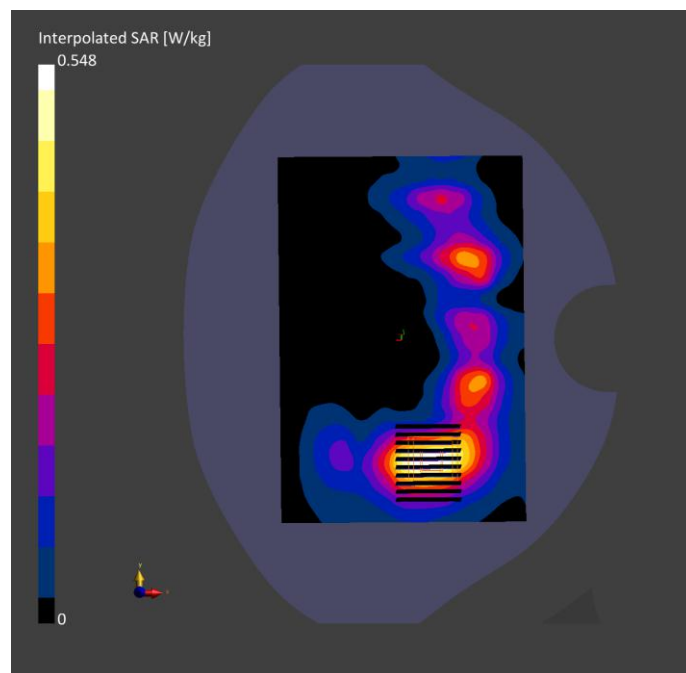
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-29	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-29	2023-03-29
psSAR1g [W/kg]	0.168	0.172
psSAR10g [W/kg]	0.070	0.071
Power Drift [dB]	-0.05	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		11.5



Meas.81 Body Plane with Back Side 15mm on 122 Channel in IEEE802.11ac80 mode with Antenna.2&Antenna.7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLA N 5GH z	WLA N, 10544 -AAC	5610.0, 122	4.9	5.07	35.1	22.1	21.1

Hardware Setup

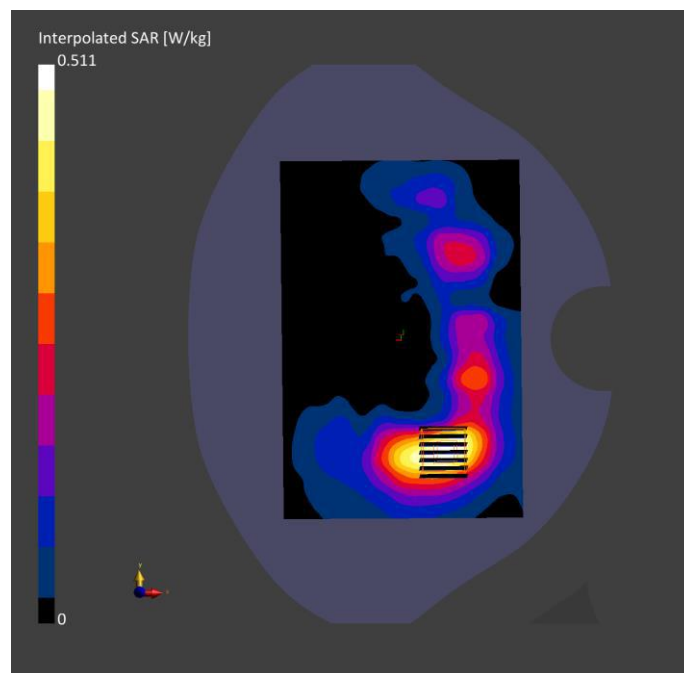
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-30	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-30	2023-03-30
psSAR1g [W/kg]	0.139	0.148
psSAR10g [W/kg]	0.057	0.060
Power Drift [dB]	0.08	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		11.8



Meas.82 Body Plane with Back Side 15mm on 155 Channel in IEEE802.11ac80 mode with Antenna.2&Antenna.7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 15.00	WLA N 5GH z	WLA N, 10544 -AAC	5775.0, 155	5.0	5.22	35.3	22.6	21.7

Hardware Setup

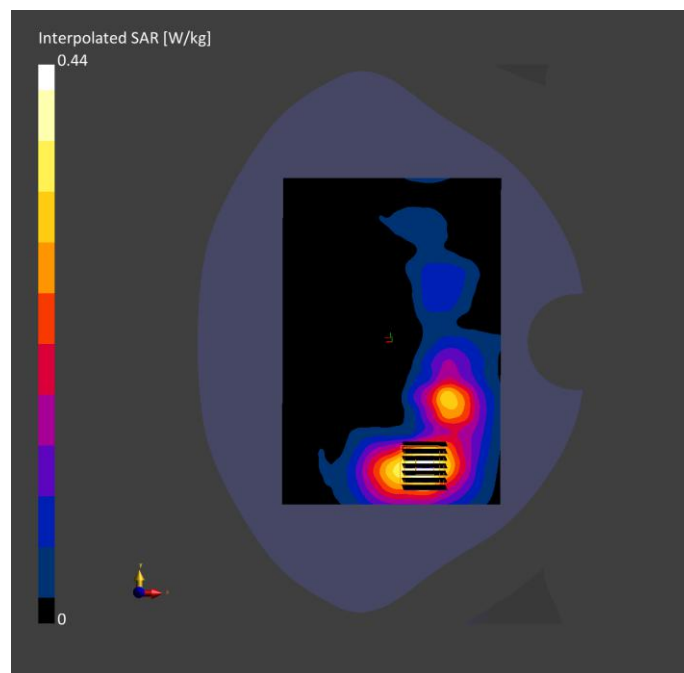
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-31	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-31	2023-03-31
psSAR1g [W/kg]	0.133	0.122
psSAR10g [W/kg]	0.054	0.047
Power Drift [dB]	0.06	0.18
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		10.0



Meas.83 Body Plane with Top Edge 10mm on 46 Channel in IEEE802.11n40 mode with Antenna.2&Antenna.7
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	WLA N 5GH z	WLA N, 10114 -CAD	5230.0, 46	5.45	4.68	35.9	22.4	21.4

Hardware Setup

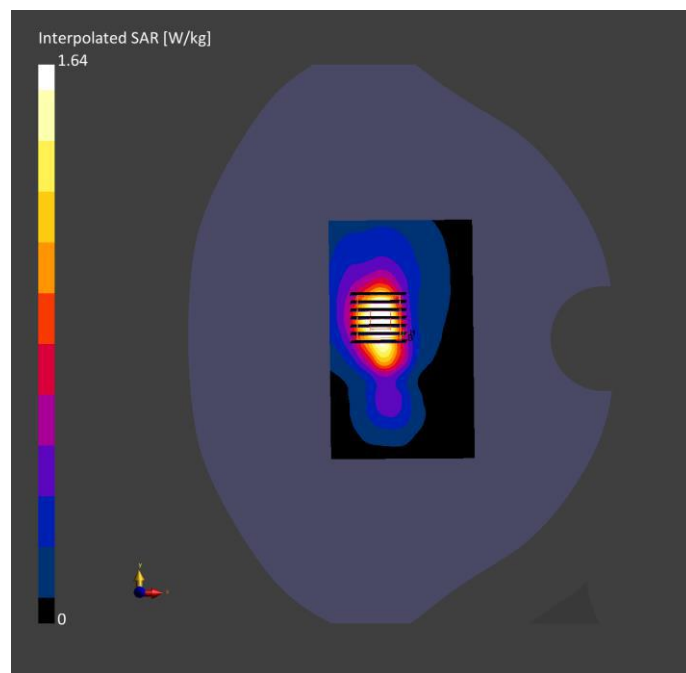
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-29	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	9.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-29	2023-03-29
psSAR1g [W/kg]	0.434	0.466
psSAR10g [W/kg]	0.158	0.164
Power Drift [dB]	-0.10	0.08
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.4
Dist 3dB Peak [mm]		8.0



Meas.84 Body Plane with Left Edge 10mm on 155 Channel in IEEE802.11ac80 mode with Antenna.2&Antenna.7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE LEFT, 10.00	WLA N 5GH z	WLA N, 10544 -AAC	5775.0, 155	5.0	5.22	35.3	22.6	21.7

Hardware Setup

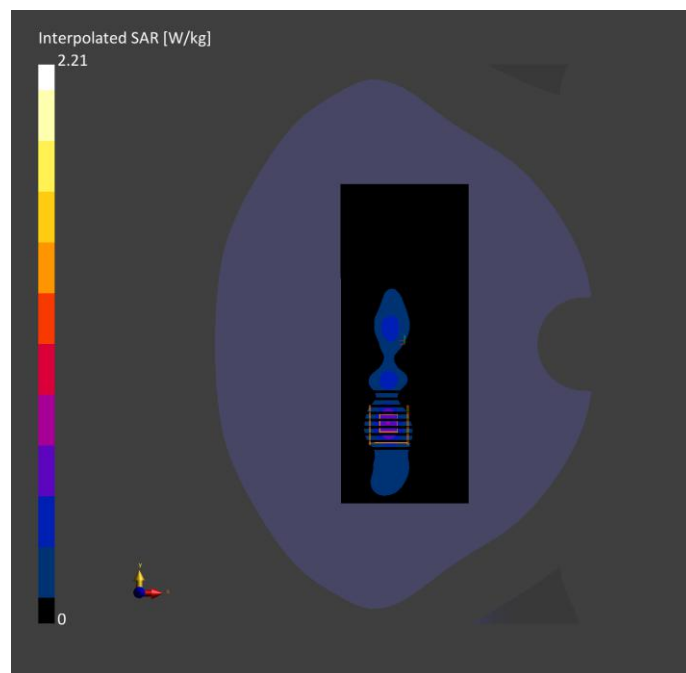
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-31	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	9.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-31	2023-03-31
psSAR1g [W/kg]	0.518	0.544
psSAR10g [W/kg]	0.170	0.176
Power Drift [dB]	-0.01	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.1
Dist 3dB Peak [mm]		7.9



Meas.85 Body Plane with Top Edge 0mm on 54 Channel in IEEE802.11n40 mode with Antenna.2&Antenna.7
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 0.00	WLA N 5GH z	WLA N, 10114 -CAD	5270.0, 54	5.45	4.73	35.5	22.4	21.4

Hardware Setup

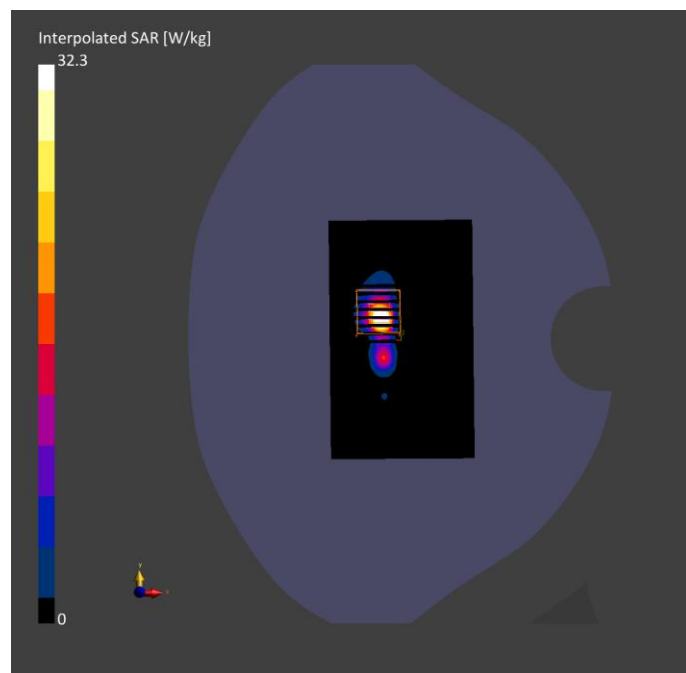
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-29	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	9.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-29	2023-03-29
psSAR1g [W/kg]	4.28	6.62
psSAR10g [W/kg]	1.02	1.24
Power Drift [dB]	-0.01	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		4.1



Meas.86 Body Plane with Top Edge 0mm on 122 Channel in IEEE802.11ac80 mode with Antenna.2&Antenna.7

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 15.00	WLA N 5GH z	WLA N, 10544 -AAC	5610.0, 122	4.9	5.07	35.1	22.1	21.1

Hardware Setup

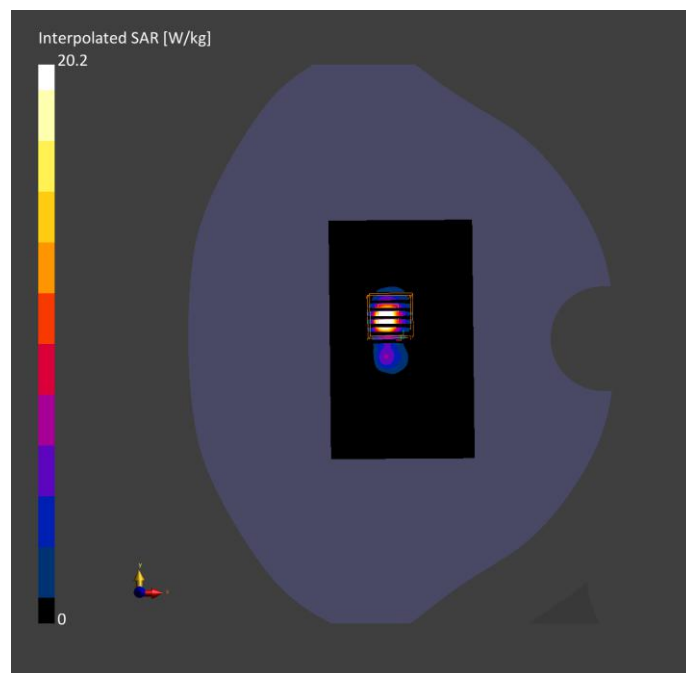
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 2023-03-30	EX3DV4 - SN7607, 2022-07-04	DAE4 Sn878, 2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	9.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-03-30	2023-03-30
psSAR1g [W/kg]	2.92	3.69
psSAR10g [W/kg]	0.633	0.683
Power Drift [dB]	-0.01	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.2
Dist 3dB Peak [mm]		4.0



Meas.87 Left Head with Cheek on 78 Channel in Bluetooth mode mode with Antenna.8

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Left Head, HSL	CHEEK , 0.00	ISM 2.4 GHz Band	Bluetooth, 10032- CAA	2480.0, 78	7.79	1.87	37.9	22.2	21.2

Hardware Setup

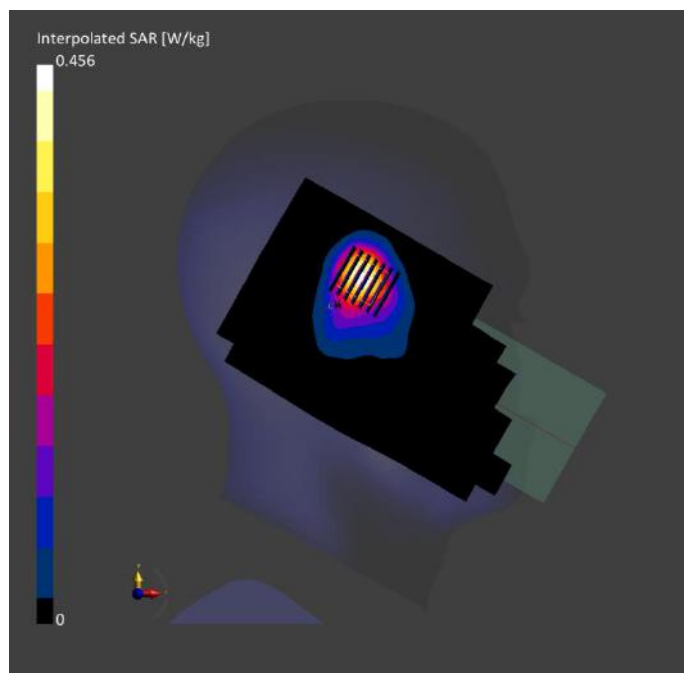
Phantom	TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000 13	2023-04- 13	EX3DV4 - SN7607, 2022-07- 04	DAE4 Sn878, 2022-06- 13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-13	2023-04-13
psSAR1g [W/kg]	0.247	0.238
psSAR10g [W/kg]	0.122	0.121
Power Drift [dB]	0.02	-0.01
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		47.9
Dist 3dB Peak [mm]		12.0



Meas.88 Body Plane with Back Side 15mm on 78 Channel in Bluetooth mode with Antenna.8
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	BACK, 5.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.79	1.87	37.9	22.2	21.2

Hardware Setup

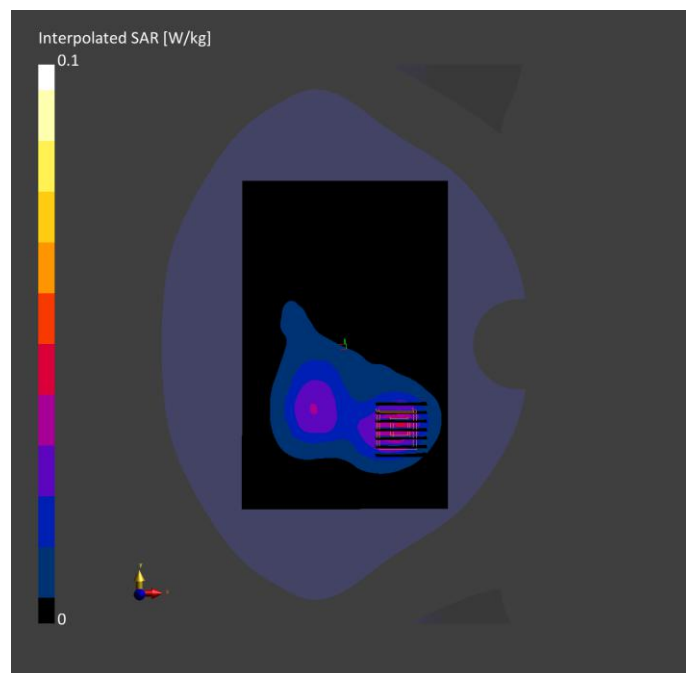
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-13	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-13	2023-04-13
psSAR1g [W/kg]	0.034	0.034
psSAR10g [W/kg]	0.018	0.018
Power Drift [dB]	-0.25	-0.05
Power	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		> 15.0



Meas.89 Body Plane with Top Edge 10mm on 78 Channel in Bluetooth mode with Antenna.8
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
Phone	162.0 x 74.0 x 9.0	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	Ambient Temperature [°C]	Liquid Temperature [°C]
Flat, HSL	EDGE TOP, 10.00	ISM 2.4 GHz Band	Bluetooth, 10032- CAA	2480.0, 78	7.79	1.87	37.9	22.2	21.2

Hardware Setup

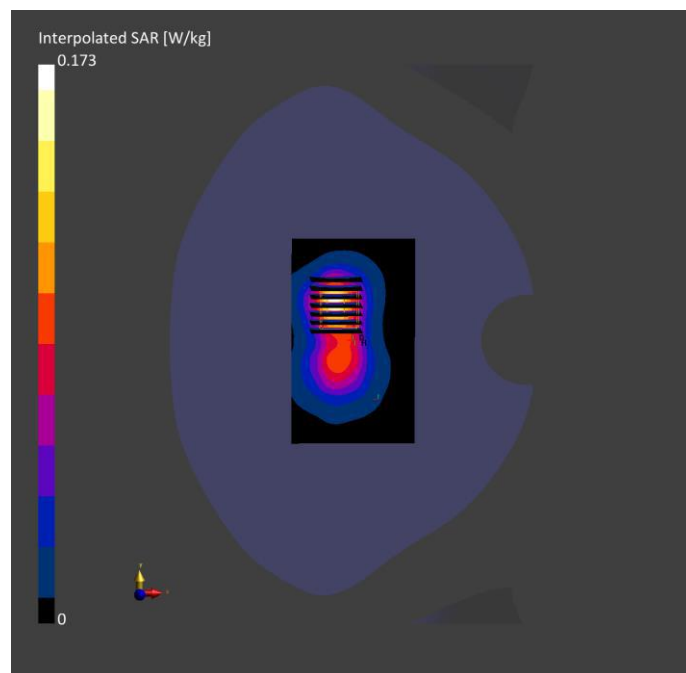
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
Twin-SAM V5.0 (30deg probe tilt) - 1859	HBBL-600-10000	2023-04-13	EX3DV4 - SN7607,	2022-07-04	DAE4 Sn878,	2022-06-13

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-04-13	2023-04-13
psSAR1g [W/kg]	0.081	0.084
psSAR10g [W/kg]	0.038	0.039
Power Drift [dB]	0.61	0.04
Power	Disabled	Disabled
Scaling		
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.3
Dist 3dB Peak [mm]		8.5



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2320162-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2320162-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2320162-AC.pdf”.

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