ANNEX A Graph Results WCDMA 1900 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 2	1:1	1880.000,	7.5	1.379	40.212
HSL	0.00			9400			

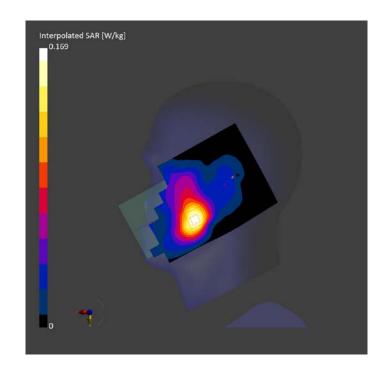
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

•	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.138	0.141
psSAR10g [W/kg]	0.080	0.092
Power Drift [dB]	-0.08	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.8
Dist 3dB Peak [mm]		11.6



WCDMA 1900 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band 2	1:1	1852.400,	7.5	1.359	40.239
HSL	10.00			9262			

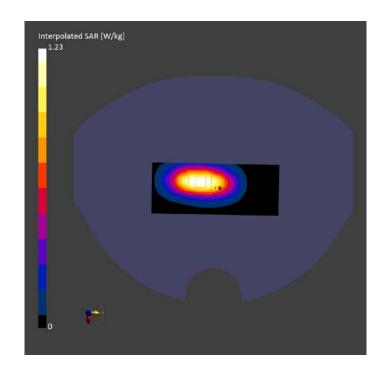
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.991	1.01
psSAR10g [W/kg]	0.537	0.551
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.8
Dist 3dB Peak [mm]		10.9



WCDMA 1900 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 2	1:1	1852.400,	7.5	1.359	40.239
HSL	15.00			9262			

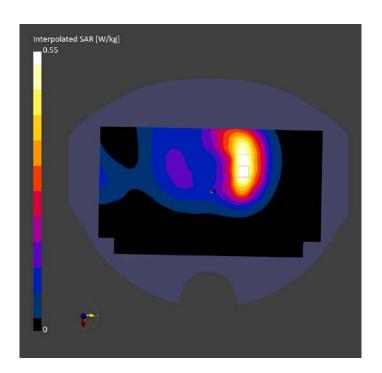
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.450	0.473
psSAR10g [W/kg]	0.261	0.280
Power Drift [dB]	0.11	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.4
Dist 3dB Peak [mm]		13.3



WCDMA 1700 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 4	1:1	1752.600,	7.8	1.345	40.267
HSL	0.00			1513			

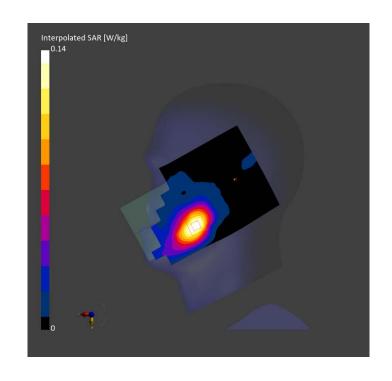
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	Unknown method	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.114	0.122
psSAR10g [W/kg]	0.067	0.080
Power Drift [dB]	-0.09	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.1
Dist 3dB Peak [mm]		12.1



WCDMA 1700 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band 4	1:1	1712.400,	7.8	1.323	40.343
HSL	10.00			1312			

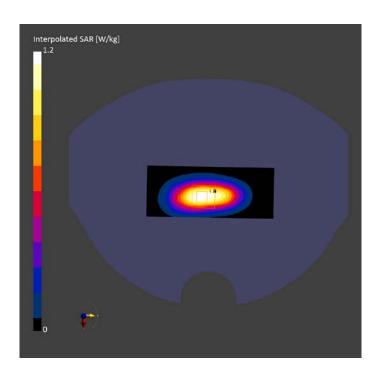
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.975	0.991
psSAR10g [W/kg]	0.534	0.546
Power Drift [dB]	0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.1
Dist 3dB Peak [mm]		9.7



WCDMA 1700 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 4	1:1	1712.400,	7.8	1.323	40.343
HSL	15.00			1312			

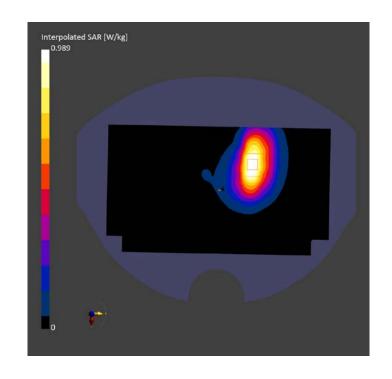
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.819	0.864
psSAR10g [W/kg]	0.468	0.505
Power Drift [dB]	-0.00	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.5
Dist 3dB Peak [mm]		12.0



WCDMA 850 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 5	1:1	836.600,	9.37	0.928	41.21
HSL	0.00			4183			

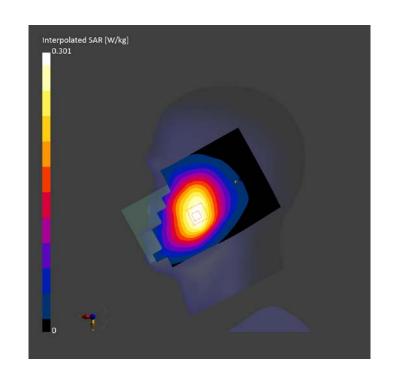
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	0.263	0.284
psSAR10g [W/kg]	0.181	0.219
Power Drift [dB]	-0.17	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.6
Dist 3dB Peak [mm]		27.8



WCDMA 850 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 5	1:1	846.600,	9.37	0.933	41.218
HSL	10.00			4233			

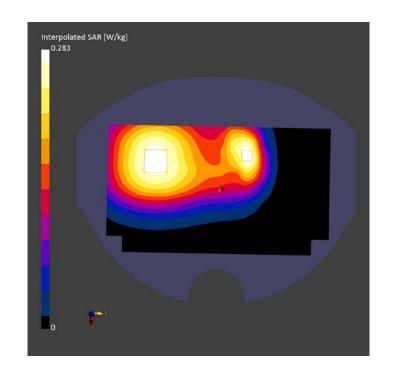
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	0.241	0.247
psSAR10g [W/kg]	0.170	0.149
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		13.3



WCDMA 850 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 5	1:1	846.600,	9.37	0.933	41.218
HSL	15.00			4233			

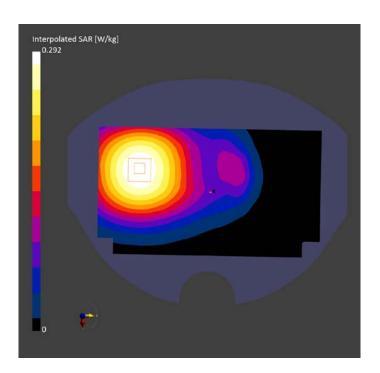
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	0.258	0.271
psSAR10g [W/kg]	0.182	0.205
Power Drift [dB]	0.00	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.7
Dist 3dB Peak [mm]		> 15.0



LTE B2 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 2	1:1	1880.000,	7.5	1.379	40.212
HSL	0.00			18900			

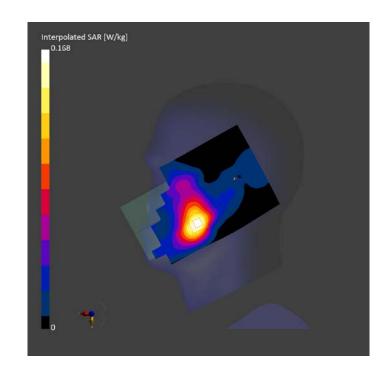
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	N/A
Surface Detection	Unknown method	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.136	0.147
psSAR10g [W/kg]	0.079	0.096
Power Drift [dB]	-0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		90.6
Dist 3dB Peak [mm]		11.6



LTE B2 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band 2	1:1	1880.000,	7.5	1.379	40.212
HSL	10.00			18900			

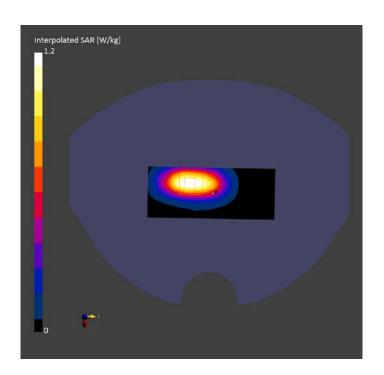
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.974	0.996
psSAR10g [W/kg]	0.527	0.541
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		10.8



LTE B2 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 2	1:1	1880.000,	7.5	1.379	40.212
HSL	15.00			18900			

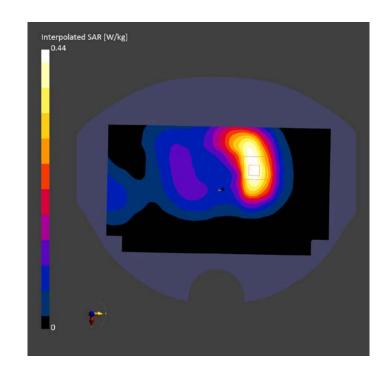
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.367	0.399
psSAR10g [W/kg]	0.216	0.234
Power Drift [dB]	0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		13.3



LTE B5 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 5	1:1	829.000,	9.37	0.923	41.21
HSL	0.00			20450			

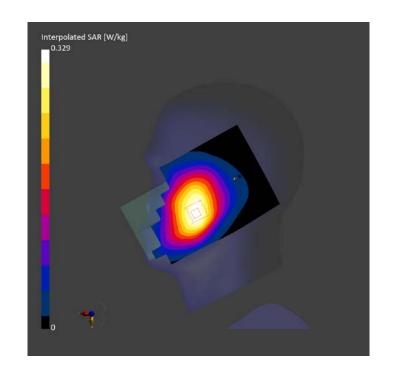
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	0.288	0.311
psSAR10g [W/kg]	0.199	0.240
Power Drift [dB]	-0.03	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.4
Dist 3dB Peak [mm]		25.4



LTE B5 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 5	1:1	829.000,	9.37	0.923	41.21
HSL	10.00			20450			

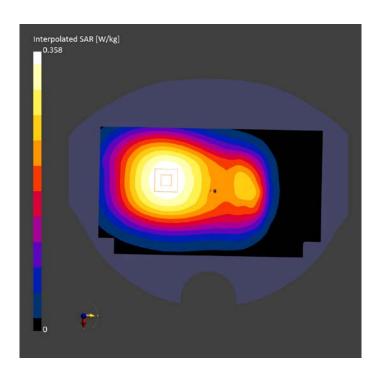
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	0.316	0.336
psSAR10g [W/kg]	0.225	0.255
Power Drift [dB]	-0.12	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.2
Dist 3dB Peak [mm]		> 15.0



LTE B5 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 5	1:1	829.000,	9.37	0.923	41.21
HSL	15.00			20450			

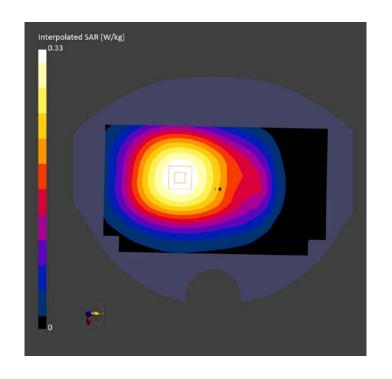
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

•	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	0.291	0.303
psSAR10g [W/kg]	0.207	0.228
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.9
Dist 3dB Peak [mm]		> 15.0



LTE B7 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	CHEEK,	Band 7	1:1	2560.000,	6.91	1.926	38.906
HSL	0.00			21350			

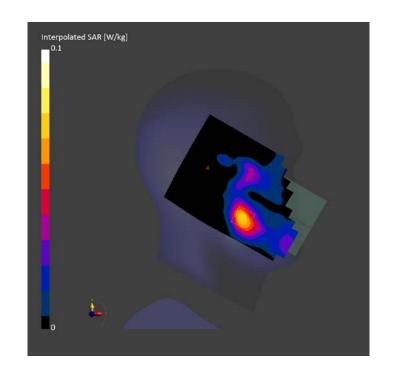
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	Unknown method	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-18	2024-06-18
psSAR1g [W/kg]	0.059	0.061
psSAR10g [W/kg]	0.030	0.035
Power Drift [dB]	-0.02	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		89.4
Dist 3dB Peak [mm]		12.4



LTE B7 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 7	1:1	2510.000,	6.91	1.793	38.729
HSL	10.00			20850			

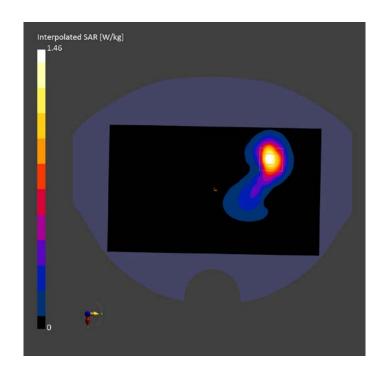
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-18	2024-06-18
psSAR1g [W/kg]	1.08	1.14
psSAR10g [W/kg]	0.480	0.504
Power Drift [dB]	0.08	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.8
Dist 3dB Peak [mm]		8.1



LTE B7 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 7	1:1	2560.000,	6.91	1.926	38.906
HSL	15.00			21350			

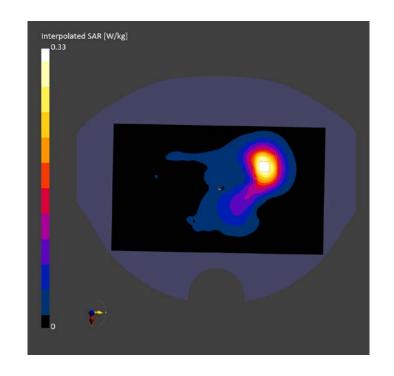
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

ocan octup		
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-18	2024-06-18
psSAR1g [W/kg]	0.261	0.279
psSAR10g [W/kg]	0.129	0.138
Power Drift [dB]	0.10	-0.19
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.2
Dist 3dB Peak [mm]		10.3



LTE B12 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	CHEEK,	Band 12	1:1	707.500,	9.37	0.891	41.856
HSL	0.00			23095			

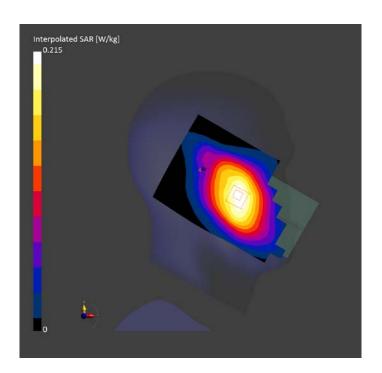
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.188	0.200
psSAR10g [W/kg]	0.131	0.157
Power Drift [dB]	0.03	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.4
Dist 3dB Peak [mm]		> 15.0



LTE B12 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 12	1:1	707.500,	9.37	0.891	41.856
HSL	10.00			23095			

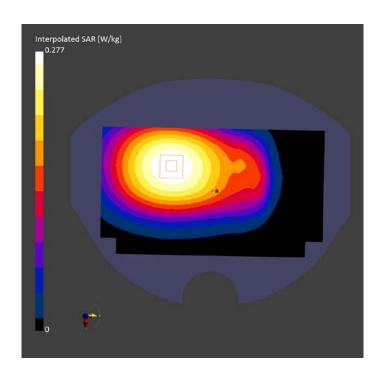
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.246	0.254
psSAR10g [W/kg]	0.177	0.196
Power Drift [dB]	-0.06	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.9
Dist 3dB Peak [mm]		> 15.0



LTE B12 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 12	1:1	707.500,	9.37	0.891	41.856
HSL	15.00			23095			

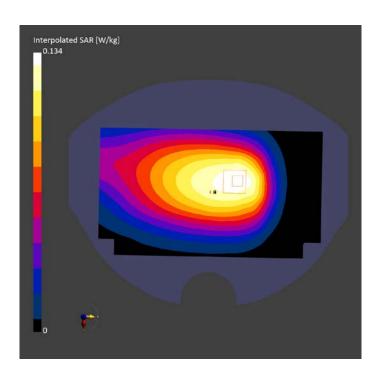
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.117	0.120
psSAR10g [W/kg]	0.083	0.086
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		> 15.0



LTE B14 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbei	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 14	1:1	793.000,	9.37	0.924	41.591
HSL	0.00			23330			

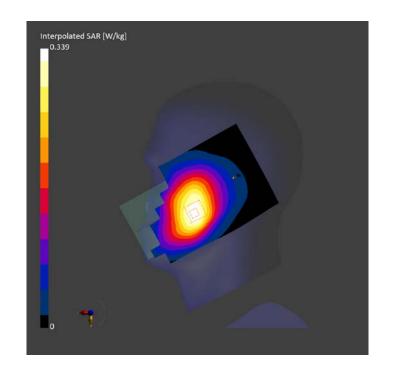
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Area Scan	Zoom Scan
2024-06-11	2024-06-11
0.297	0.319
0.205	0.246
-0.33	-0.15
Disabled	Disabled
No correction	No correction
	90.1
	20.6
	2024-06-11 0.297 0.205 -0.33 Disabled



LTE B14 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 14	1:1	793.000,	9.37	0.924	41.591
HSL	10.00			23330			

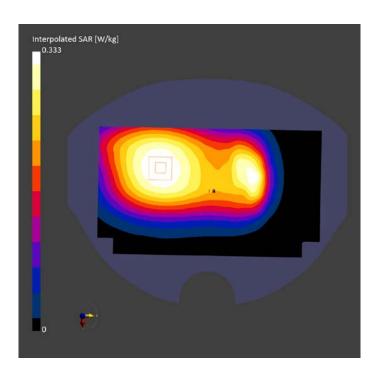
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.295	0.310
psSAR10g [W/kg]	0.210	0.237
Power Drift [dB]	0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.6
Dist 3dB Peak [mm]		> 15.0



LTE B14 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 14	1:1	793.000,	9.37	0.924	41.591
HSL	15.00			23330			

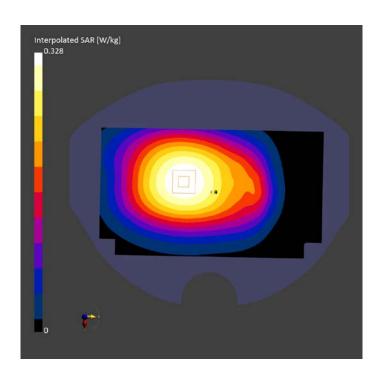
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.291	0.308
psSAR10g [W/kg]	0.207	0.234
Power Drift [dB]	0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.0
Dist 3dB Peak [mm]		> 15.0



LTE B30 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	CHEEK,	Band 30	1:1	2310.000,	7.36	1.73	38.84
HSL	0.00			27710			

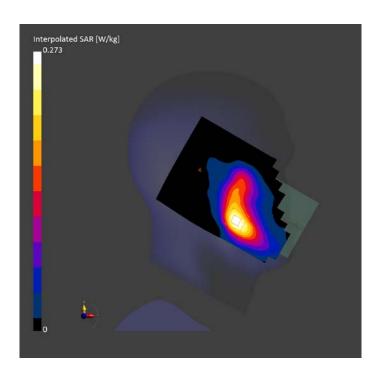
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.219	0.230
psSAR10g [W/kg]	0.119	0.137
Power Drift [dB]	-1.50	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.6
Dist 3dB Peak [mm]		11.1



LTE B30 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band 30	1:1	2310.000,	7.36	1.73	38.84
HSL	10.00			27710			

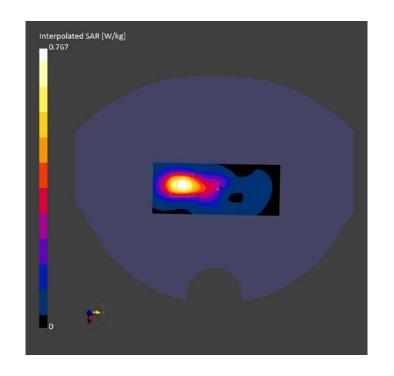
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.588	0.602
psSAR10g [W/kg]	0.278	0.292
Power Drift [dB]	-0.01	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.9
Dist 3dB Peak [mm]		9.0



LTE B30 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 30	1:1	2310.000,	7.36	1.73	38.84
HSL	15.00			27710			

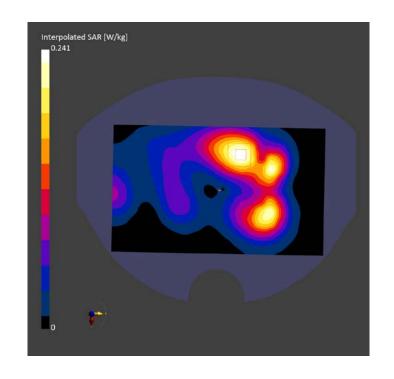
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.197	0.199
psSAR10g [W/kg]	0.110	0.114
Power Drift [dB]	-0.04	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.9
Dist 3dB Peak [mm]		15.9



LTE B66 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band 66	1:1	1745.000,	7.8	1.343	40.276
HSL	0.00			132322			

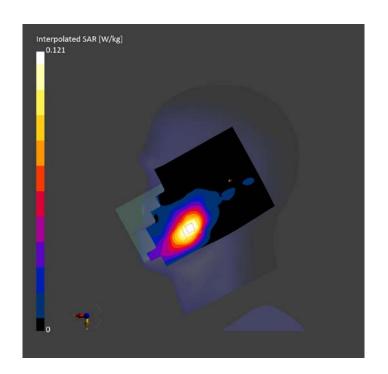
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

Juni Juliah		
	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	Unknown method	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.099	0.109
psSAR10g [W/kg]	0.058	0.071
Power Drift [dB]	-0.01	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.1
Dist 3dB Peak [mm]		11.6



LTE B66 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band 66	1:1	1745.000,	7.8	1.343	40.276
HSL	10.00			132322			

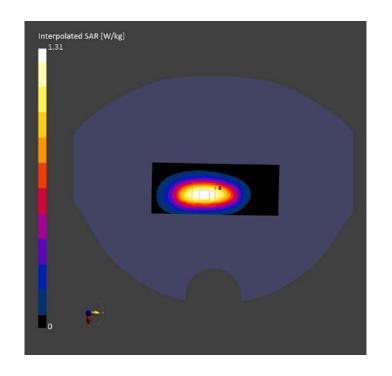
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	1.06	1.07
psSAR10g [W/kg]	0.577	0.588
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		9.7



LTE B66 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 66	1:1	1745.000,	7.8	1.343	40.276
HSL	15.00			132322			

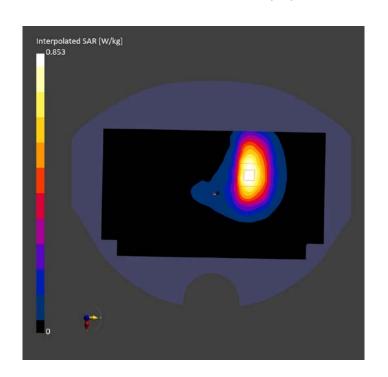
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

•	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.712	0.809
psSAR10g [W/kg]	0.413	0.444
Power Drift [dB]	-0.08	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.0
Dist 3dB Peak [mm]		4.9



LTE B2 ANT5 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	TILT,	Band 2	1:1	1860.000,	7.5	1.366	40.247
HSL	0.00			18700			

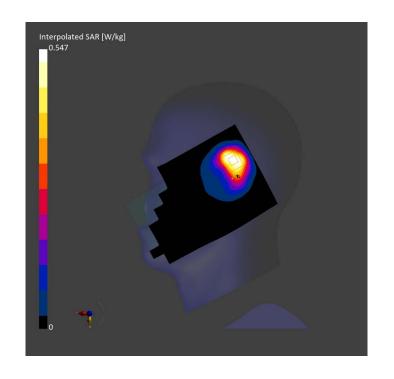
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.446	0.630
psSAR10g [W/kg]	0.257	0.299
Power Drift [dB]	-0.06	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.2
Dist 3dB Peak [mm]		7.3



LTE B2 ANT5 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	Band 2	1:1	1860.000,	7.5	1.366	40.247
HSL	10.00			18700			

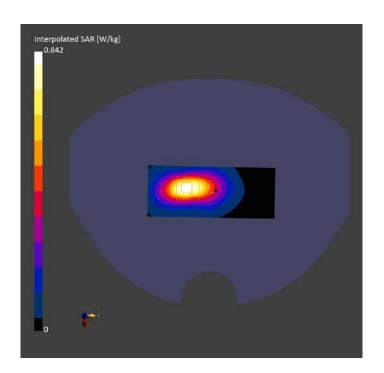
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.675	0.713
psSAR10g [W/kg]	0.360	0.378
Power Drift [dB]	-0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.1
Dist 3dB Peak [mm]		9.6



LTE B2 ANT5 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 2	1:1	1860.000,	7.5	1.366	40.247
HSL	15.00			18700			

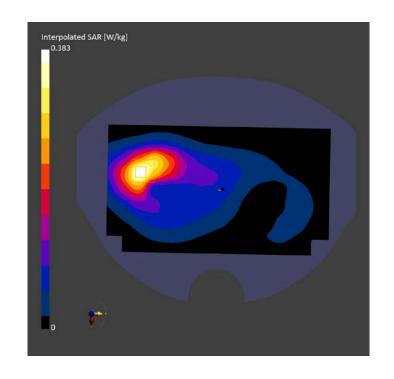
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	0.307	0.317
psSAR10g [W/kg]	0.171	0.183
Power Drift [dB]	-0.07	-0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.1
Dist 3dB Peak [mm]		11.9



LTE B12 ANT5 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	TILT,	Band 12	1:1	704.000,	9.37	0.891	41.856
HSL	0.00			23060			

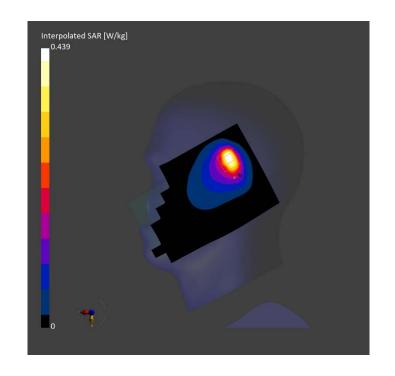
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.5 x 5.5 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.354	0.341
psSAR10g [W/kg]	0.204	0.165
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.0
Dist 3dB Peak [mm]		6.6



LTE B12 ANT5 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	Band 12	1:1	704.000,	9.37	0.889	41.878
HSL	10.00			23060			

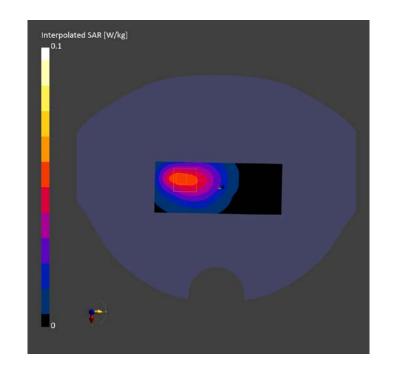
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.049	0.049
psSAR10g [W/kg]	0.032	0.028
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		68.7
Dist 3dB Peak [mm]		9.9



LTE B12 ANT5 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 12	1:1	704.000,	9.37	0.889	41.878
HSL	15.00			23060			

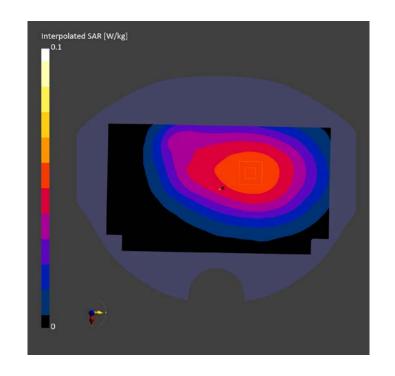
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	0.051	0.053
psSAR10g [W/kg]	0.036	0.041
Power Drift [dB]	0.10	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.7
Dist 3dB Peak [mm]		> 15.0



LTE B30 ANT5 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	TILT,	Band 30	1:1	2310.000,	7.36	1.73	38.84
HSL	0.00			27710			

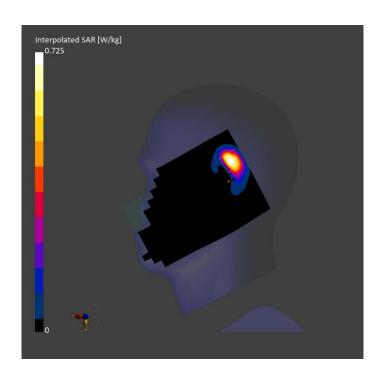
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.552	0.598
psSAR10g [W/kg]	0.250	0.246
Power Drift [dB]	0.10	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		6.4



LTE B30 ANT5 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	Band 30	1:1	2310.000,	7.36	1.73	38.84
HSL	10.00			27710			

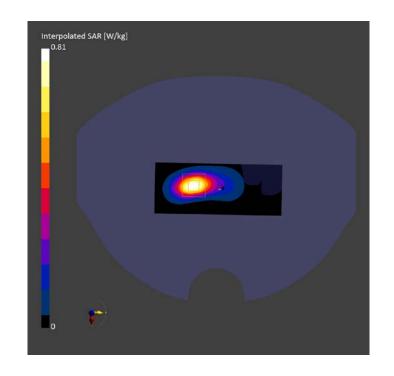
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.610	0.624
psSAR10g [W/kg]	0.275	0.281
Power Drift [dB]	0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.1
Dist 3dB Peak [mm]		8.0



LTE B30 ANT5 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 30	1:1	2310.000,	7.36	1.73	38.84
HSL	15.00			27710			

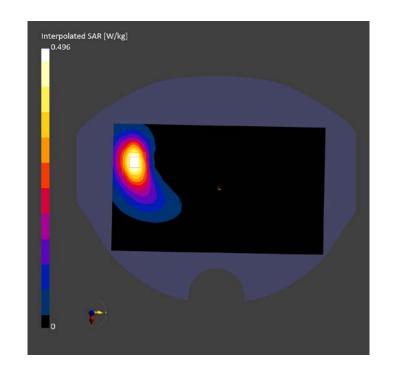
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.396	0.402
psSAR10g [W/kg]	0.201	0.210
Power Drift [dB]	-0.08	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.3
Dist 3dB Peak [mm]		10.1



LTE B66 ANT5 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	TILT,	Band 66	1:1	1720.000,	7.8	1.329	40.317
HSL	0.00			132072			

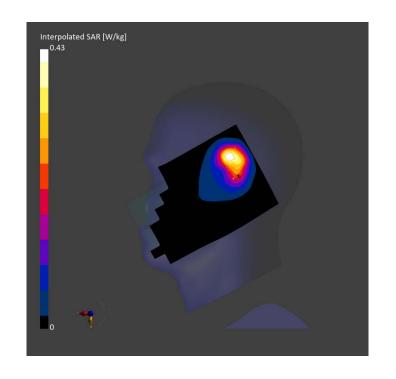
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.338	0.456
psSAR10g [W/kg]	0.189	0.217
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.5
Dist 3dB Peak [mm]		7.6



LTE B66 ANT5 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	Band 66	1:1	1720.000,	7.8	1.329	40.317
HSL	10.00			132072			

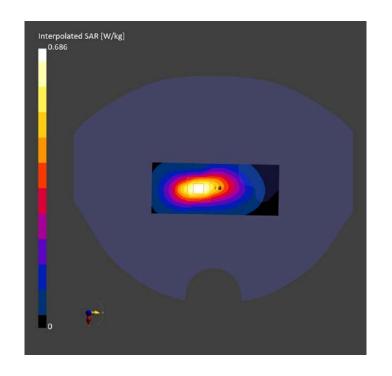
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.541	0.556
psSAR10g [W/kg]	0.291	0.300
Power Drift [dB]	0.02	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		9.7



LTE B66 ANT5 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band 66	1:1	1720.000,	7.8	1.329	40.317
HSL	15.00			132072			

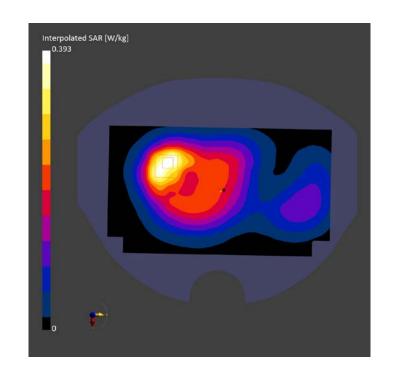
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	0.326	0.357
psSAR10g [W/kg]	0.196	0.206
Power Drift [dB]	-0.06	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		14.5



N2 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band n2	1:1	1880.000,	7.5	1.366	40.372
HSL	0.00			376000			

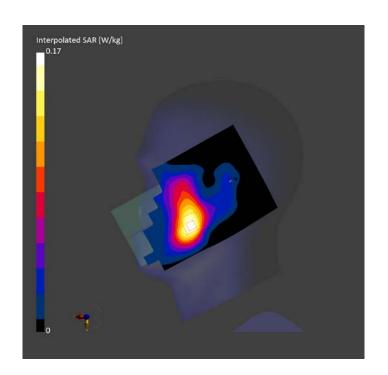
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.138	0.144
psSAR10g [W/kg]	0.081	0.094
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		89.6
Dist 3dB Peak [mm]		12.6



N2 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band n2	1:1	1852.500,	7.5	1.346	40.399
HSL	10.00			370500			

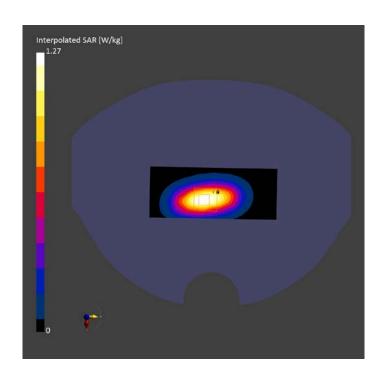
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	1.02	1.03
psSAR10g [W/kg]	0.552	0.560
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.1
Dist 3dB Peak [mm]		10.8



N2 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n2	1:1	1880.000,	7.5	1.366	40.372
HSL	15.00			376000			

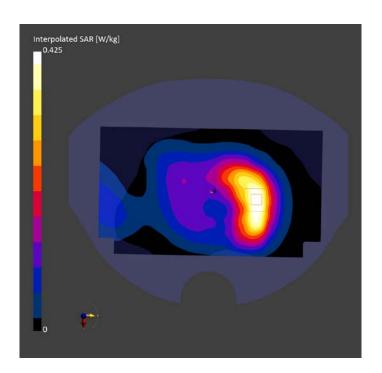
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.351	0.360
psSAR10g [W/kg]	0.205	0.217
Power Drift [dB]	0.09	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.9
Dist 3dB Peak [mm]		14.4



N5 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band n5	1:1	836.500,	9.37	0.91	41.06
HSL	0.00			167300			

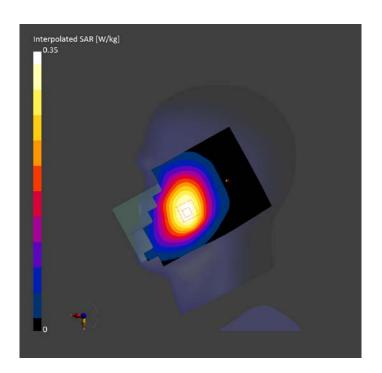
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-25	2024-05-25
psSAR1g [W/kg]	0.306	0.322
psSAR10g [W/kg]	0.210	0.248
Power Drift [dB]	-0.05	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		92.1
Dist 3dB Peak [mm]		25.5



N5 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n5	1:1	836.500,	9.37	0.91	41.06
HSL	10.00			167300			

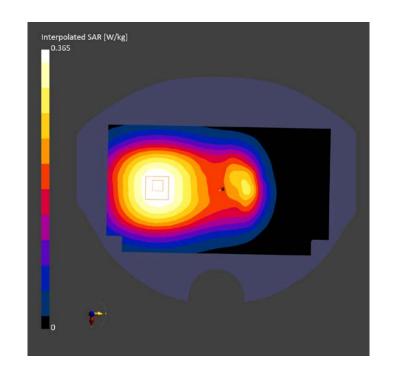
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-25	2024-05-25
psSAR1g [W/kg]	0.323	0.342
psSAR10g [W/kg]	0.229	0.261
Power Drift [dB]	-0.03	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.4
Dist 3dB Peak [mm]		> 15.0



N5 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n5	1:1	836.500,	9.37	0.91	41.06
HSL	15.00			167300			

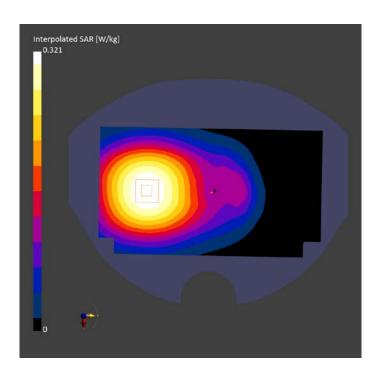
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-25	2024-05-25
psSAR1g [W/kg]	0.284	0.293
psSAR10g [W/kg]	0.201	0.222
Power Drift [dB]	-0.14	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.4
Dist 3dB Peak [mm]		> 15.0



N30 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	CHEEK,	Band n30	1:1	2310.000,	7.36	1.73	38.84
HSL	0.00			462000			

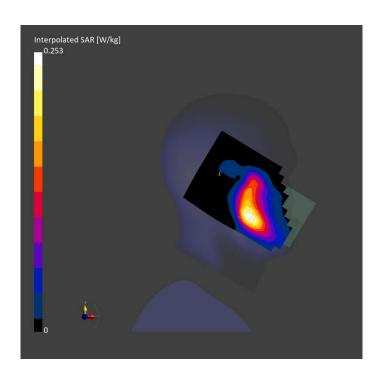
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.201	0.205
psSAR10g [W/kg]	0.110	0.122
Power Drift [dB]	-0.08	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.9
Dist 3dB Peak [mm]		12.9



N30 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	Band n30	1:1	2310.000,	7.36	1.73	38.84
HSL	10.00			462000			

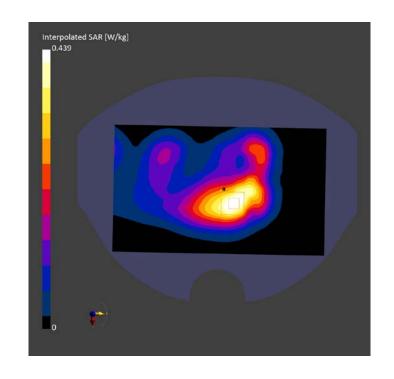
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.359	0.379
psSAR10g [W/kg]	0.203	0.216
Power Drift [dB]	-0.19	-0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak [mm]		12.9



N30 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	Band n30	1:1	2310.000,	7.36	1.73	38.84
HSL	15.00			462000			

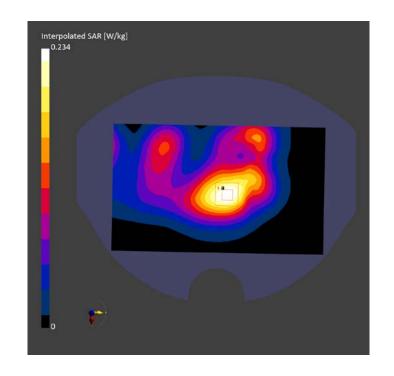
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

Scan x 30.0
x 30.0
0 x 1.5
1.4
Yes
1.5
N/A
points
sured
ľ

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	0.192	0.201
psSAR10g [W/kg]	0.111	0.120
Power Drift [dB]	0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.6
Dist 3dB Peak [mm]		17.5



N66 ANT1 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band n66	1:1	1745.000,	7.8	1.329	40.126
HSL	0.00			349000			

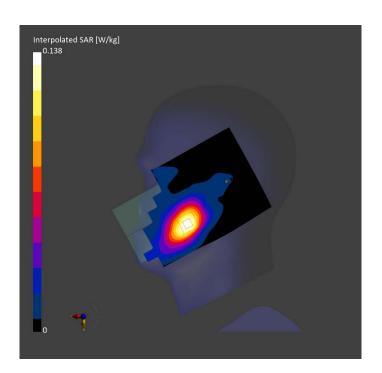
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 - SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	0.113	0.122
psSAR10g [W/kg]	0.067	0.078
Power Drift [dB]	-0.07	0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.4
Dist 3dB Peak [mm]		14.4



N66 ANT1 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE BOTTOM,	Band n66	1:1	1745.000,	7.8	1.329	40.126
HSL	10.00			349000			

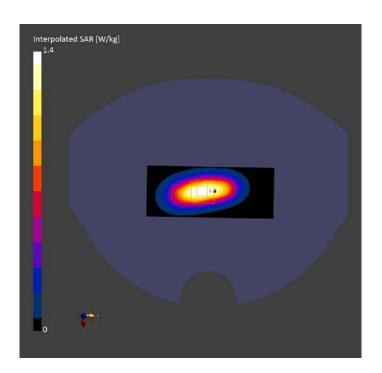
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	1.12	1.12
psSAR10g [W/kg]	0.608	0.617
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.1
Dist 3dB Peak [mm]		9.7



N66 ANT1 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n66	1:1	1745.000,	7.8	1.329	40.126
HSL	15.00			349000			

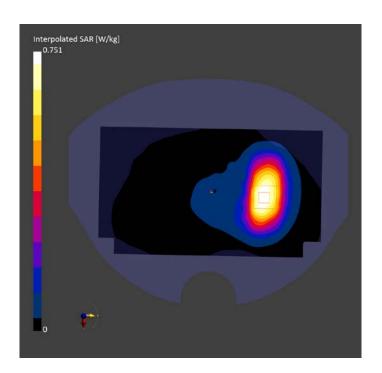
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	0.640	0.712
psSAR10g [W/kg]	0.381	0.418
Power Drift [dB]	-0.15	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.3
Dist 3dB Peak [mm]		12.0



N77 ANT4 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	CHEEK,	Band n77	1:1.74	3762.000,	6.32	3.233	38.129
HSL	0.00			650800			

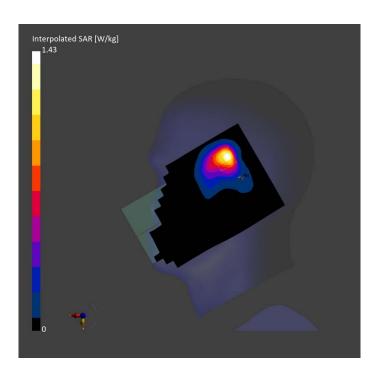
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-23	2024-06-23
psSAR1g [W/kg]	0.994	1.06
psSAR10g [W/kg]	0.416	0.429
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.9
Dist 3dB Peak [mm]		9.0



N77 ANT4 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n77	1:1.74	3710.010,	6.32	3.165	38.169
HSL	10.00			647334			

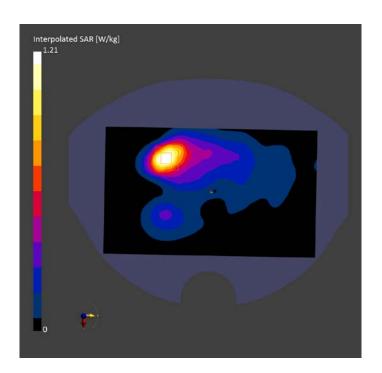
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-23	2024-06-23
psSAR1g [W/kg]	0.924	0.945
psSAR10g [W/kg]	0.407	0.409
Power Drift [dB]	0.16	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.5
Dist 3dB Peak [mm]		9.9



N77 ANT4 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n77	1:1.74	3710.010,	6.32	3.165	38.169
HSL	15.00			647334			

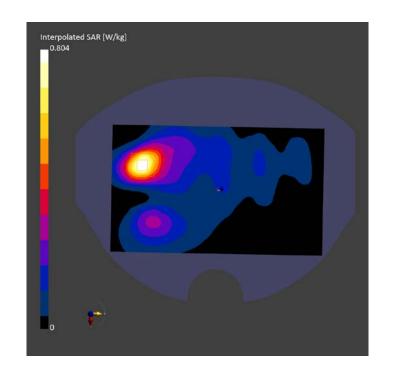
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-23	2024-06-23
psSAR1g [W/kg]	0.607	0.571
psSAR10g [W/kg]	0.273	0.258
Power Drift [dB]	-0.01	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.3
Dist 3dB Peak [mm]		12.3



N2 ANT5 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	TILT,	Band n2	1:1	1880.000,	7.5	1.366	40.372
HSL	0.00			376000			

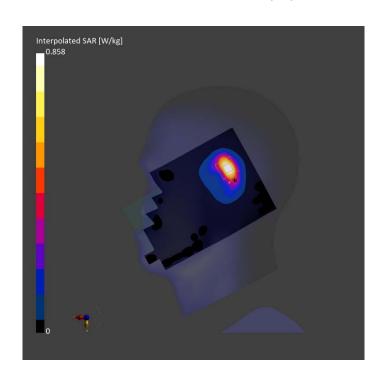
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

-	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.9 x 5.9 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.660	0.666
psSAR10g [W/kg]	0.322	0.312
Power Drift [dB]	0.04	0.09
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.4
Dist 3dB Peak [mm]		7.2



N2 ANT5 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	Band n2	1:1	1880.000,	7.5	1.366	40.372
HSL	10.00			376000			

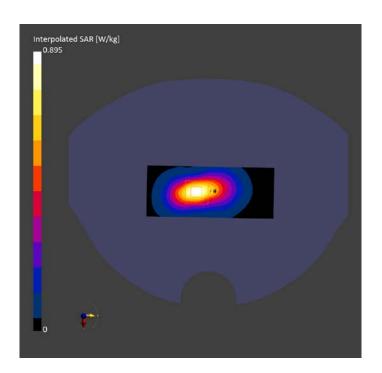
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	0.696	0.714
psSAR10g [W/kg]	0.363	0.376
Power Drift [dB]	-0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		9.7



N2 ANT5 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n2	1:1	1880.000,	7.5	1.366	40.372
HSL	15.00			376000			

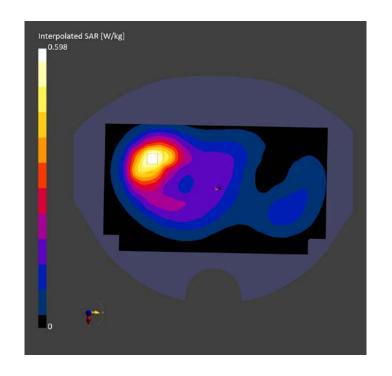
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	0.486	0.509
psSAR10g [W/kg]	0.278	0.293
Power Drift [dB]	-0.02	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.9
Dist 3dB Peak [mm]		14.5



N66 ANT5 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
RightHead,	TILT,	Band n66	1:1	1745.000,	7.8	1.329	40.126
HSL	0.00			349000			

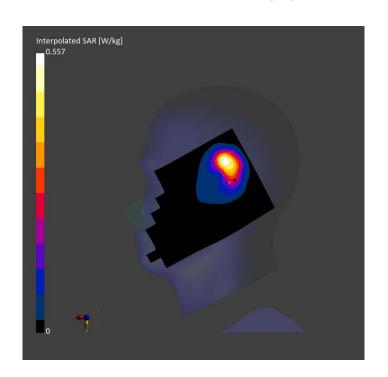
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	0.436	0.543
psSAR10g [W/kg]	0.234	0.255
Power Drift [dB]	-0.03	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.4
Dist 3dB Peak [mm]		7.3



N66 ANT5 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n66	1:1	1745.000,	7.8	1.329	40.126
HSL	10.00			349000			

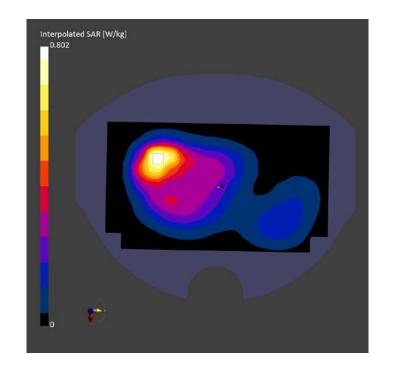
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	0.665	0.759
psSAR10g [W/kg]	0.380	0.408
Power Drift [dB]	-0.06	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.0
Dist 3dB Peak [mm]		11.1



N66 ANT5 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Band n66	1:1	1745.000,	7.8	1.329	40.126
HSL	15.00			349000			

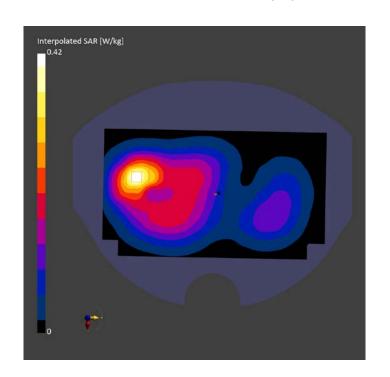
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

•	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	0.337	0.346
psSAR10g [W/kg]	0.189	0.197
Power Drift [dB]	0.17	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		14.5



WLAN 2.4G ANT7 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	CHEEK,	WLAN	1:1	2437.000,	7.09	1.734	38.86
HSL	0.00	2.4GHz		6			

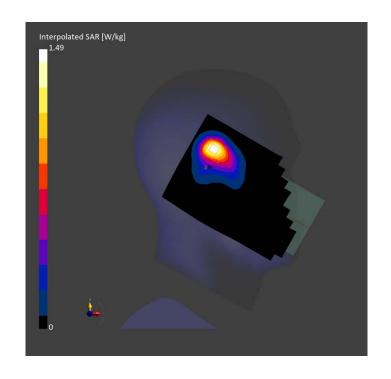
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	1.15	1.19
psSAR10g [W/kg]	0.578	0.584
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.0
Dist 3dB Peak [mm]		10.0



WLAN 2.4G ANT7 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	WLAN	1:1	2437.000,	7.09	1.734	38.86
HSL	10.00	2.4GHz		6			

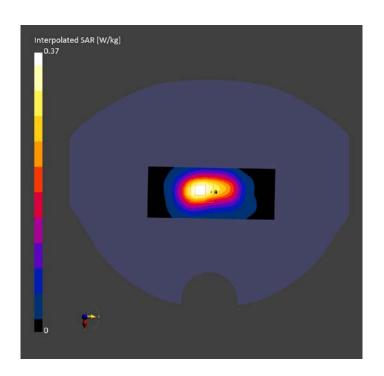
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

Area Scan	Zoom Scan
48.0 x 120.0	30.0 x 30.0 x 30.0
8.0 x 10.0	5.0 x 5.0 x 1.5
3.0	1.4
N/A	Yes
N/A	1.5
N/A	N/A
VMS + 6p	VMS + 6p
Measured	Measured
	48.0 x 120.0 8.0 x 10.0 3.0 N/A N/A N/A VMS + 6p

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.293	0.296
psSAR10g [W/kg]	0.150	0.155
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.8
Dist 3dB Peak [mm]		11.8



WLAN 2.4G ANT7 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	WLAN	1:1	2437.000,	7.09	1.734	38.86
HSL	15.00	2.4GHz		6			

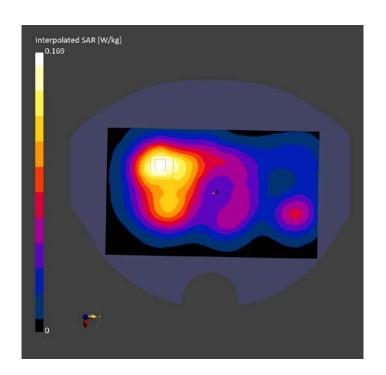
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.137	0.140
psSAR10g [W/kg]	0.078	0.082
Power Drift [dB]	-0.06	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.0
Dist 3dB Peak [mm]		19.3



WLAN 5G ANT7 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	TILT,	WLAN	1:1	5270.000,	5.02	4.69	36.112
HSL	0.00	5GHz		54			

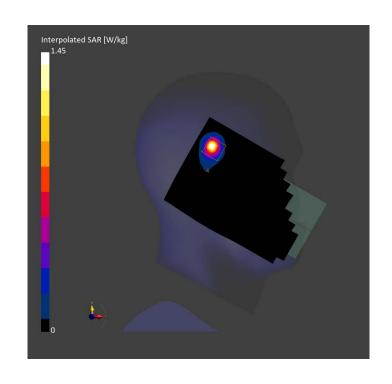
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.882	0.970
psSAR10g [W/kg]	0.258	0.279
Power Drift [dB]	0.09	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		6.4



WLAN 5G ANT7 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	WLAN	1:1	5270.000,	5.02	4.69	36.112
HSL	10.00	5GHz		54			

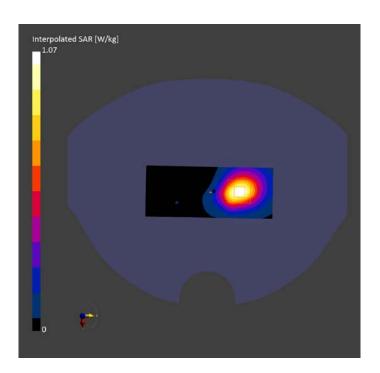
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	0.769	0.816
psSAR10g [W/kg]	0.303	0.323
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.8
Dist 3dB Peak [mm]		11.2



WLAN 5G ANT7 Body 15mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	WLAN	1:1	5795.000,	4.55	5.33	35.21
HSL	15.00	5GHz		159			

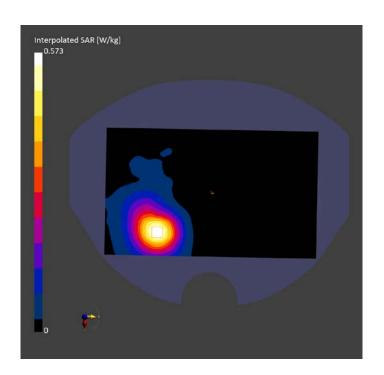
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	Υ	Υ
Surface Detection	All points	All points
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	0.435	0.445
psSAR10g [W/kg]	0.179	0.188
Power Drift [dB]	0.01	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.2
Dist 3dB Peak [mm]		14.7



BT ANT7 Head

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
LeftHead,	CHEEK,	ISM 2.4	1:1	2480.000,	7.09	1.761	38.782
HSL	0.00	GHz Band		78			

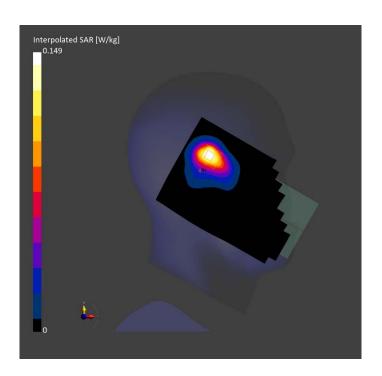
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Υ	Υ
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.117	0.118
psSAR10g [W/kg]	0.058	0.060
Power Drift [dB]	-0.15	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.4
Dist 3dB Peak [mm]		9.9



BT ANT7 Body 10mm

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Duty Cycle	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	ISM 2.4	1:1	2480.000,	7.09	1.761	38.782
HSL	10.00	GHz Band		78			

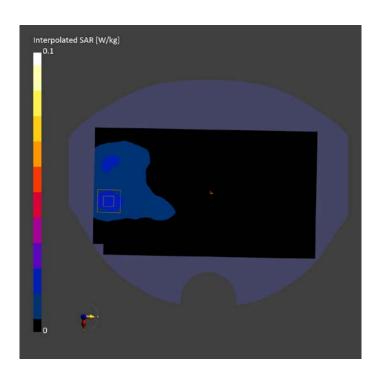
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup

oom Scan
0.0 x 30.0
5.0 x 1.5
1.4
Yes
1.5
Υ
All points
Measured

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	0.019	0.019
psSAR10g [W/kg]	0.01	0.011
Power Drift [dB]	-0.05	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.8
Dist 3dB Peak [mm]		13.1



ANNEX B System Verification Results

750MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numb	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	EDGE TOP,	D750	CW,	750.000,	9.37	0.931	41.68
HSL	5.00		0	50			

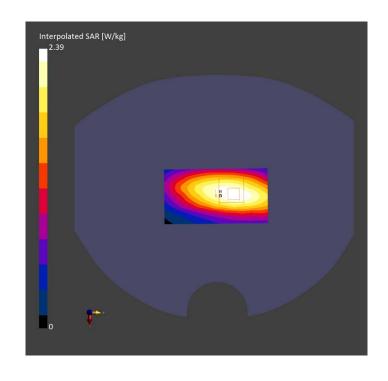
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-11	2024-06-11
psSAR1g [W/kg]	2.01	2.04
psSAR10g [W/kg]	1.26	1.33
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.1
Dist 3dB Peak [mm]		18.0



835MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D835	CW,	835.000,	9.37	0.928	41.21
HSL	5.00		0	50			

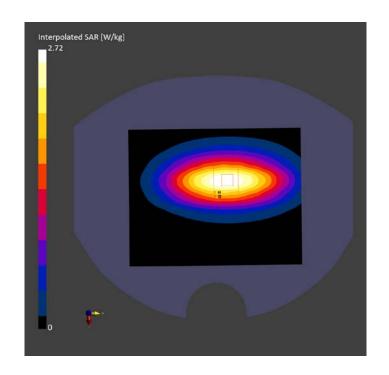
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan	Setup	

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-23	2024-05-23
psSAR1g [W/kg]	2.35	2.47
psSAR10g [W/kg]	1.55	1.60
Power Drift [dB]	0.08	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		19.7



835MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D835	CW,	835.000,	9.37	0.91	41.06
HSL	5.00		0	50			

Hardware Setup

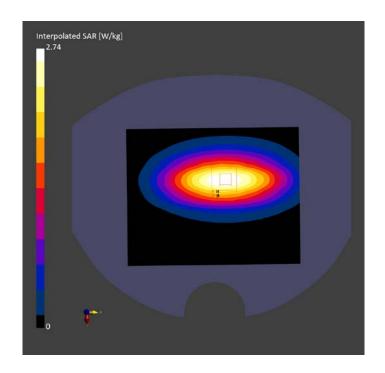
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

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S	ca	n	S	et	u	p

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-05-25	2023-05-25
psSAR1g [W/kg]	2.32	2.38
psSAR10g [W/kg]	1.51	1.55
Power Drift [dB]	0.03	-0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.1
Dist 3dB Peak [mm]		19.6



•

1800MHz

Exposure Conditions

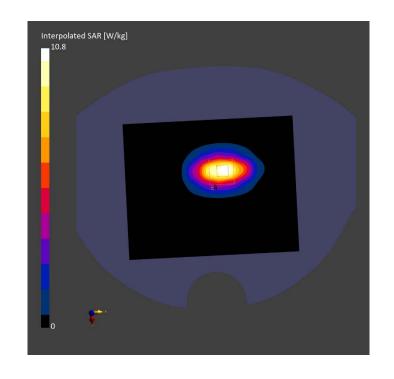
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D1800	CW,	1800.000,	7.8	1.374	40.26
HSL	5.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
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	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-05-28	2024-05-28
psSAR1g [W/kg]	9.11	9.22
psSAR10g [W/kg]	4.75	4.83
Power Drift [dB]	-0.06	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.8
Dist 3dB Peak [mm]		9.6



. 1800MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D1800	CW,	1800.000,	7.8	1.36	40.11
HSL	5.00		0	50			

Hardware Setup

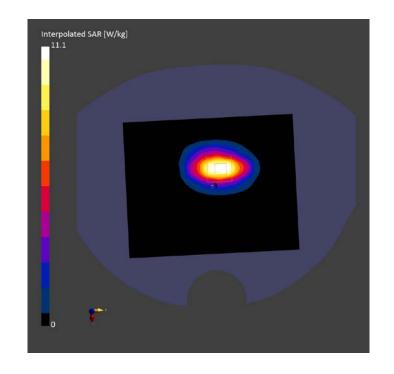
Twin-SAM V8.0 (30deg probe tilt) HBBL-600-10000 EX3DV4 – SN7825, 2023-09-27 DAE4 Sn1744, 2023-08-30	Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
,	Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

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Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-19	2024-06-19
psSAR1g [W/kg]	9.06	9.18
psSAR10g [W/kg]	4.68	4.78
Power Drift [dB]	-0.05	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.8
Dist 3dB Peak [mm]		9.6



. 1900MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D1900	CW,	1900.000,	7.5	1.394	40.15
HSL	5.00		0	50			

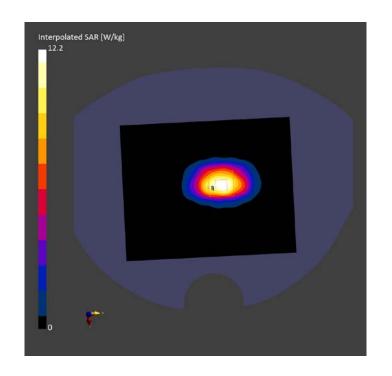
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2114	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-04	2024-06-04
psSAR1g [W/kg]	10.01	10.06
psSAR10g [W/kg]	5.22	5.25
Power Drift [dB]	-0.07	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.0
Dist 3dB Peak [mm]		9.2



. 1900MHz

Exposure Conditions

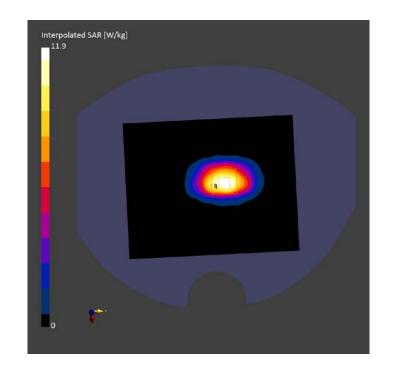
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D1900	CW,	1900.000,	7.5	1.381	40.31
HSL	5.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-20	2024-06-20
psSAR1g [W/kg]	10.03	10.13
psSAR10g [W/kg]	5.12	5.28
Power Drift [dB]	0.09	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.0
Dist 3dB Peak [mm]		9.2



. 2300MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D2300	CW,	2300.000,	7.36	1.72	38.87
HSL	5.00		0	50			

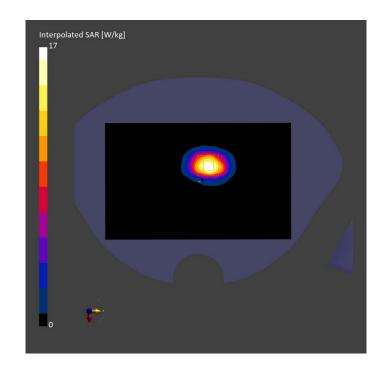
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Sca	n	Se	tu	a

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

	Area Scan	Zoom Scan
Date	2024-06-12	2024-06-12
psSAR1g [W/kg]	12.65	12.75
psSAR10g [W/kg]	6.11	6.21
Power Drift [dB]	0.10	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.4
Dist 3dB Peak [mm]		9.0



. 2450MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D2450	CW,	2450.000,	7.09	1.741	38.85
HSL	5.00		0	50			

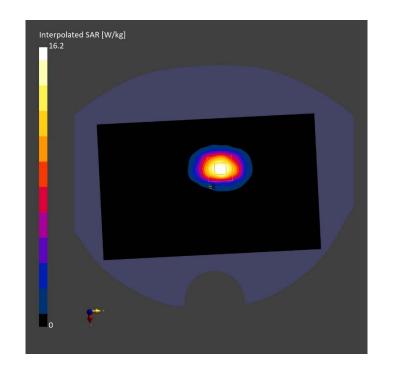
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan	Setu	b

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

	Area Scan	Zoom Scan
Date	2024-06-13	2024-06-13
psSAR1g [W/kg]	13.13	13.24
psSAR10g [W/kg]	6.14	6.26
Power Drift [dB]	0.14	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak [mm]		9.0



. 2600MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D2600	CW,	2600.000,	7.9	1.952	38.78
HSL	5.00		0	50			

Hardware Setup

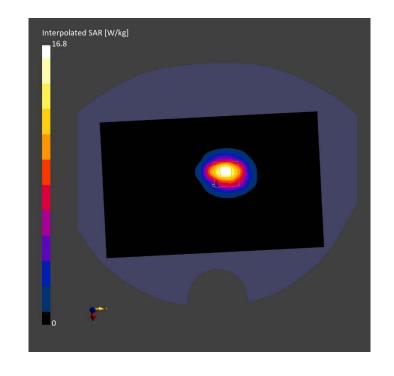
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

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Scai	n S	etı	up

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

	Area Scan	Zoom Scan
Date	2024-06-18	2024-06-18
psSAR1g [W/kg]	13.58	13.66
psSAR10g [W/kg]	6.18	6.22
Power Drift [dB]	-0.02	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.6
Dist 3dB Peak [mm]		9.0



3500MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D3500	CW,	3500.000,	6.48	2.82	38.33
HSL	5.00		0	50			

Hardware Setup

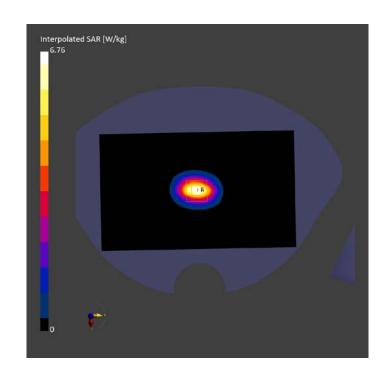
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Zoom Scan

Scan Setup Area Scan Grid Extents [mm] 120.0 x 200.0

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 3.0 1.4 [mm] Graded Grid N/A Yes Grading Ratio MAIA N/A 1.4 N/A N/A Surface Detection VMS + 6p VMS + 6p Scan Method Measured Measured

	Area Scan	Zoom Scan
Date	2024-06-22	2024-06-22
psSAR1g [W/kg]	6.35	6.44
psSAR10g [W/kg]	2.31	2.43
Power Drift [dB]	0.14	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57
Dist 3dB Peak [mm]		4



3700MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D3700	CW,	3700.000,	6.32	3.158	38.2
HSL	5.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

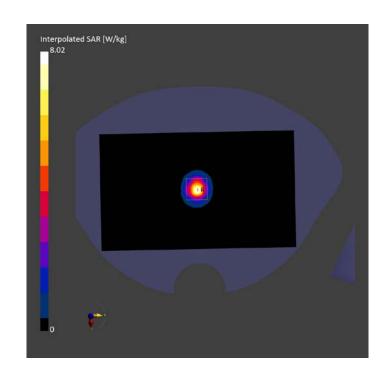
Scan Method

Scan Setup Area Scan Zoom Scan Grid Extents [mm] 120.0 x 200.0 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 3.0 1.4 [mm] Graded Grid N/A Yes Grading Ratio MAIA N/A 1.4 N/A N/A Surface Detection VMS + 6p VMS + 6p

Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-06-23	2024-06-23
psSAR1g [W/kg]	6.74	6.81
psSAR10g [W/kg]	2.33	2.48
Power Drift [dB]	-0.08	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		70
Dist 3dB Peak [mm]		9



Measured

3900MHz

Exposure Conditions

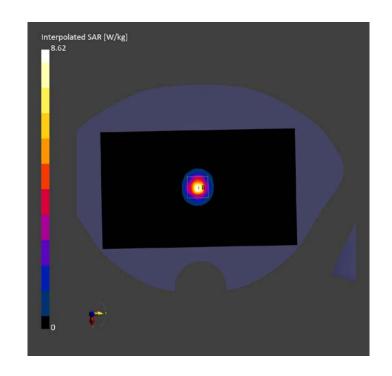
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D3900	CW,	3900.000,	6.22	3.365	38.04
HSL	5.00		0	50			

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup Area Scan Zoom Scan Grid Extents [mm] 22.0 x 22.0 x 22.0 120.0 x 200.0 Grid Steps [mm] 10.0 x 10.0 4.0 x 4.0 x 1.4 Sensor Surface 3.0 1.4 [mm] **Graded Grid** N/A Yes Grading Ratio MAIA N/A 1.4 N/A N/A Surface Detection VMS + 6p VMS + 6p Scan Method Measured Measured

	Area Scan	Zoom Scan
Date	2024-06-24	2024-06-24
psSAR1g [W/kg]	6.76	6.90
psSAR10g [W/kg]	2.33	2.39
Power Drift [dB]	-0.05	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.8
Dist 3dB Peak [mm]		7.4



. 5250MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor r	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D5GHz	CW,	5250.000,	5.02	4.663	36.12
HSL	5.00		0	25			

Hardware Setup

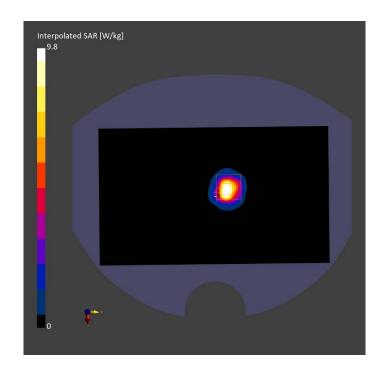
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

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Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-14	2024-06-14
psSAR1g [W/kg]	7.73	7.86
psSAR10g [W/kg]	2.12	2.24
Power Drift [dB]	0.04	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.3
Dist 3dB Peak [mm]		6.5



5600MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D5GHz	CW,	5600.000,	5.25	5.094	35.47
HSL	5.00		0	60			

Hardware Setup

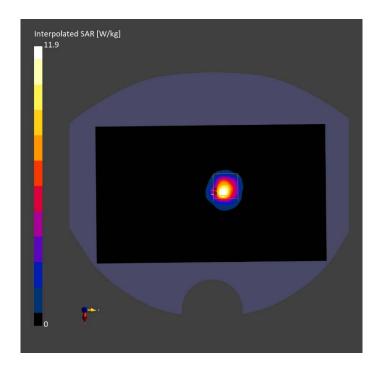
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30

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Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-15	2024-06-15
psSAR1g [W/kg]	8.24	8.59
psSAR10g [W/kg]	2.25	2.46
Power Drift [dB]	0.06	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		6.5



. 5750MHz

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Numbe	Conversion Factor er	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D5GHz	CW,	5750.000,	4.55	5.284	35.22
HSL	5.00		0	75			

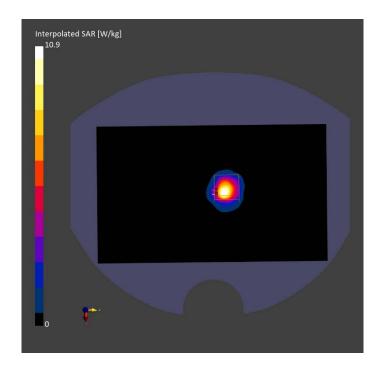
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	HBBL-600-10000	EX3DV4 – SN7825, 2023-09-27	DAE4 Sn1744, 2023-08-30
- 2114			

Scan Setup		
	Area Scan	Zoom Scan
Grid Extents [mm]	120 0 x 200 0	22 0 x 22 0 x 22 0

	7 11 00 00011	
Grid Extents [mm]	120.0 x 200.0	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	3.0	1.4
[mm]		
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2024-06-16	2024-06-16
psSAR1g [W/kg]	8.01	8.13
psSAR10g [W/kg]	2.22	2.29
Power Drift [dB]	0.06	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.5
Dist 3dB Peak [mm]		6.6



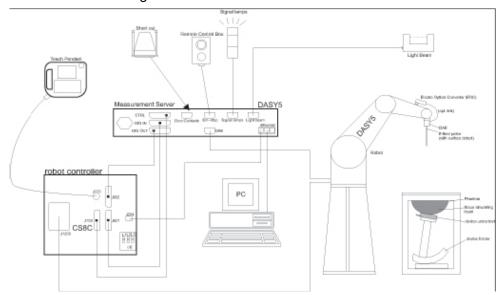




ANNEX C SAR Measurement Setup

C.1 Measurement Set-up

The Dasy4 or DASY5 system for performing compliance tests is illustrated above graphically. This system consists of the following items:



Picture C.1 SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (StäubliTX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals
 for the digital communication to the DAE. To use optical surface detection, a special version of
 the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY4 or DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as
- warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.





C.2 Dasy4 or DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY4 or DASY5 software reads the reflection durning a software approach and looks for the maximum using 2nd ord curve fitting. The approach is stopped at reaching the maximum.

Probe Specifications:

Model: ES3DV3, EX3DV4

Frequency 10MHz — 6.0GHz(EX3DV4) Range: 10MHz — 4GHz(ES3DV3)

Calibration: In head and body simulating tissue at

Frequencies from 835 up to 5800MHz

Linearity: \pm 0.2 dB(30 MHz to 6 GHz) for EX3DV4

± 0.2 dB(30 MHz to 4 GHz) for ES3DV3 DynamicRange: 10 mW/kg — 100W/kg

Probe Length: 330 mm

Probe Tip

Length: 20 mm Body Diameter: 12 mm

Tip Diameter: 2.5 mm (3.9 mm for ES3DV3)
Tip-Center: 1 mm (2.0mm for ES3DV3)

Application:SAR Dosimetry Testing

Compliance tests of mobile phones

Dosimetry in strong gradient fields

Picture C.3E-field Probe

C.3 E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and inn a waveguide or ©Copyright. All rights reserved by CTTL.



Picture C.2Near-field Probe







other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

 Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

 ΔT = Temperature increase due to RF exposure.

$$SAR = \frac{\left|E\right|^2 \cdot \sigma}{\rho}$$

Where:

 σ = Simulated tissue conductivity,

 ρ = Tissue density (kg/m³).

C.4 Other Test Equipment

C.4.1 Data Acquisition Electronics(DAE)

The data acquisition electronics consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



PictureC.4: DAE





C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY4: RX90XL; DASY5: RX160L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchron motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)





Picture C.5DASY 4

Picture C.6DASY 5

C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU broad with CPU (dasy4: 166 MHz, Intel Pentium; DASY5: 400 MHz, Intel Celeron), chipdisk (DASY4: 32 MB; DASY5: 128MB), RAM (DASY4: 64 MB, DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O broad, which is directly connected to the PC/104 bus of the CPU broad.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.









Picture C.7 Server for DASY 4

Picture C.8 Server for DASY 5

C.4.4 Device Holder for Phantom

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ±20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

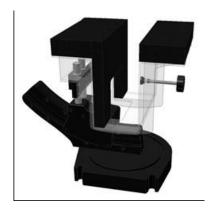
The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\mathcal{E}=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

<Laptop Extension Kit>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin-SAM and ELI phantoms.



Picture C.9-1: Device Holder



Picture C.9-2: Laptop Extension Kit





C.4.5 Phantom

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a table. The shape of the shell is based on data from an anatomical study designed to

Represent the 90th percentile of the population. The phantom enables the dissymmetric evaluation of SAR for both left and right handed handset usage, as well as body-worn usage using the flat phantom region. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. The shell phantom has a 2mm shell thickness (except the ear region where shell thickness increases to 6 mm).

Shell Thickness: 2±0. 2 mm

Filling Volume: Approx. 25 liters

Dimensions: 810 x 1000 x 500 mm (H x L x W)

Available: Special



Picture C.10: SAM Twin Phantom

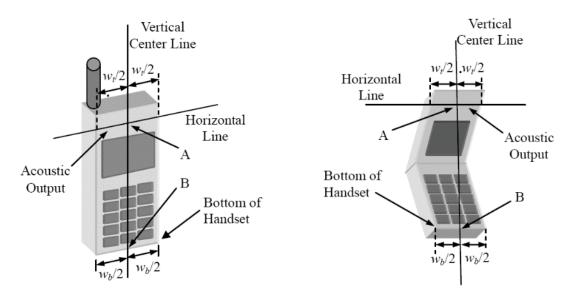




ANNEX D Position of the wireless device in relation to the phantom

D.1 General considerations

This standard specifies two handset test positions against the head phantom – the "cheek" position and the "tilt" position.

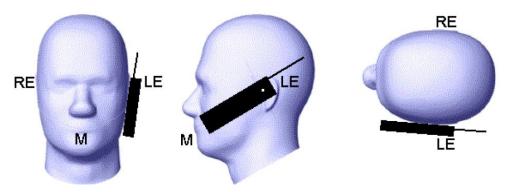


 W_t Width of the handset at the level of the acoustic

 W_b Width of the bottom of the handset

A Midpoint of the width W_t of the handset at the level of the acoustic output

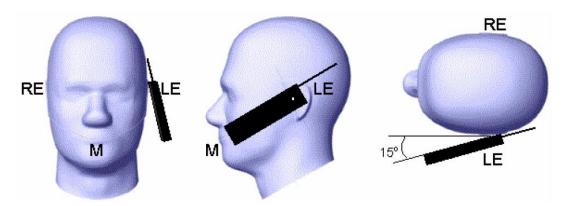
B Midpoint of the width W_b of the bottom of the handset



Picture D.2 Cheek position of the wireless device on the left side of SAM



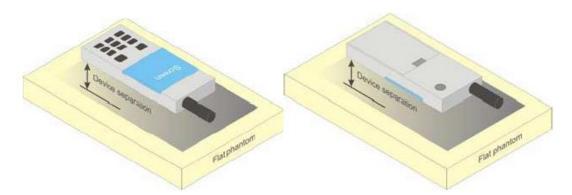




Picture D.3 Tilt position of the wireless device on the left side of SAM

D.2 Body-worn device

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.



Picture D.4Test positions for body-worn devices

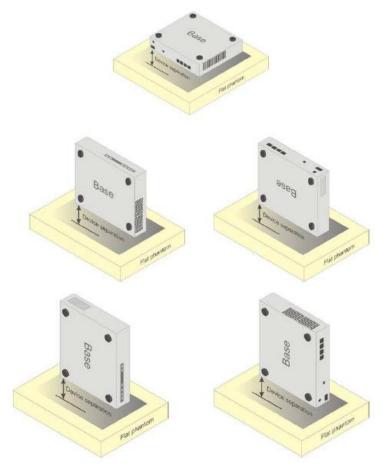
D.3 Desktop device

A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

The DUT shall be positioned at the distance and in the orientation to the phantom that corresponds to the intended use as specified by the manufacturer in the user instructions. For devices that employ an external antenna with variable positions, tests shall be performed for all antenna positions specified. Picture 8.5 show positions for desktop device SAR tests. If the intended use is not specified, the device shall be tested directly against the flat phantom.







Picture D.5 Test positions for desktop devices

D.4 DUT Setup Photos



Picture D.6





ANNEX E Equivalent Media Recipes

The liquid used for the frequency range of 800-3000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table E.1 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

TableE.1: Composition of the Tissue Equivalent Matter

Frequency		•	1900	1900	2450	2450	5800	5800
	835Head	835Body						
(MHz)		,	Head	Body	Head	Body	Head	Body
Ingredients (% by	Ingredients (% by weight)							
Water	41.45	52.5	55.242	69.91	58.79	72.60	65.53	65.53
Sugar	56.0	45.0	\	\	\	\	\	\
Salt	1.45	1.4	0.306	0.13	0.06	0.18	\	\
Preventol	0.1	0.1	\	\	\	\	\	\
Cellulose	1.0	1.0	\	\	\	\	\	\
Glycol	,	,	44.450	00.00	44.45	07.00	,	,
Monobutyl	\	\	44.452	29.96	41.15	27.22	١	\
Diethylenglycol	,	,	,	,	,	,	47.04	47.04
monohexylether	\	\	\	\	١	\	17.24	17.24
Triton X-100	\	\	\	\	\	\	17.24	17.24
Dielectric	44.5	55.0	40.0	50.0	00.0	50.7	05.0	40.0
Parameters	ε=41.5	ε=55.2	ε=40.0	ε=53.3	ε=39.2	ε=52.7	ε=35.3	ε=48.2
	σ=0.90	σ=0.97	σ =1.40	σ =1.52	σ=1.80	σ=1.95	σ=5.27	σ=6.00
Target Value								

Note: There are a little adjustment respectively for 750, 1750, 2600, 5200, 5300 and 5600 based on the recipe of closest frequency in table E.1.





ANNEX F System Validation

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components.

Table F.1: System Validation for 7825

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7825	H650-7000M	December 8,2023	750 MHz	OK
7825	H650-7000M	December 8,2023	900 MHz	OK
7825	H650-7000M	December 8,2023	1450 MHz	OK
7825	H650-7000M	December 8,2023	1750 MHz	OK
7825	H650-7000M	December 9,2023	1900 MHz	OK
7825	H650-7000M	December 9,2023	2100 MHz	OK
7825	H650-7000M	December 9,2023	2300 MHz	OK
7825	H650-7000M	December 10,2023	2450 MHz	OK
7825	H650-7000M	December 10,2023	2600 MHz	OK
7825	H650-7000M	December 11,2023	3500 MHz	OK
7825	H650-7000M	December 11,2023	3700 MHz	OK
7825	H650-7000M	December 11,2023	3900 MHz	OK
7825	H650-7000M	December 12,2023	5250 MHz	OK
7825	H650-7000M	December 12,2023	5600 MHz	OK
7825	H650-7000M	December 12,2023	5800 MHz	OK