



# **ANNEX A** Graph Results

## **GSM 850 Head**

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	GSM 850	1:2	836.600,	9.34	0.893	40.856
HSL	0.00			190			

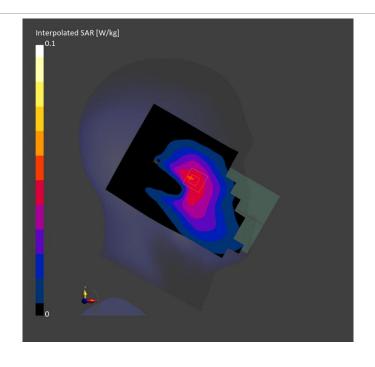
## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

## Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]			psSAR1g [W/kg]	0.044	0.044
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.029	0.036
Sensor Surface	3.0	1.4	Power Drift [dB]	0.03	0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		98.2
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		28.1
Detection			[mm]		
Scan Method	Measured	Measured			







## GSM 850 Body

## **Exposure Conditions**

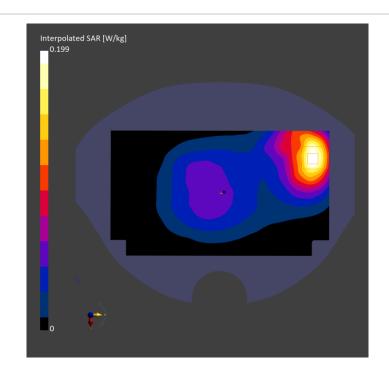
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
				Number			
Flat,	васк,	GSM 850	1:2	824.200,	9.34	0.888	40.856

## **Hardware Setup**

Phantom	TSL, Measured Date Probe, Calibration Date DAE, Ca		DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]			psSAR1g [W/kg]	0.168	0.162
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.108	0.098
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.14	-0.07
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		85.7
Surface	All points	All points	Dist 3dB Peak		13.7
Detection			[mm]		
Scan Method	Measured	Measured			







## GSM 1900 Head

## **Exposure Conditions**

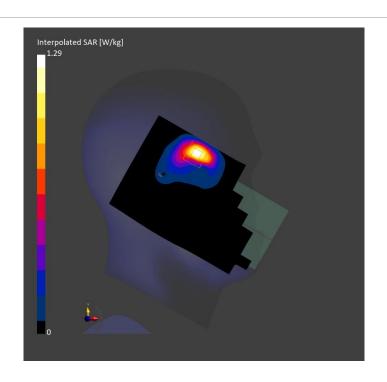
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	PCS 1900	1:2	1850.200,	7.79	1.335	39.234
HSL	0.00			512			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

#### Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	0.968	0.992
Grid Steps [mm]	15.0 x 15.0	3.8 x 3.8 x 1.4	psSAR10g [W/kg]	0.486	0.470
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.11	-0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		82.1
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		6.6
Detection			[mm]		
Scan Method	Measured	Measured			







## **GSM 1900 Body**

## **Exposure Conditions**

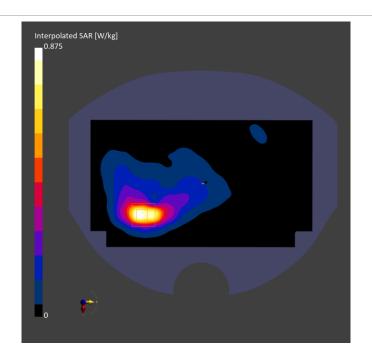
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	PCS 1900	1:2	1850.200,	7.79	1.335	39.234
HSL	10.00			512			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date		
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31		
tilt) - 2114					

## **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	0.685	0.707
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.344	0.332
Sensor Surface	3.0	1.4	Power Drift [dB]	0.05	-0.03
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		82.1
Surface	All points	All points	Dist 3dB Peak		6.8
Detection			[mm]		
Scan Method	Measured	Measured			







## WCDMA 1900 Head

## **Exposure Conditions**

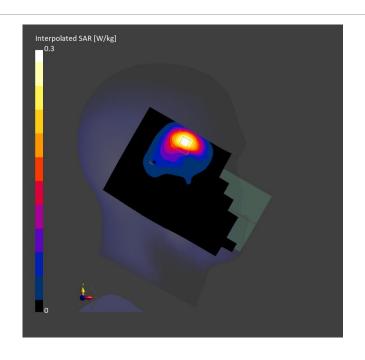
Phantom	Position, Test	Band	1	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance				[MHz],	Factor	Conductivity	Permittivity
	[mm]				Channel		[S/m]	
					Number			
LeftHead,	CHEEK,	Band	2 :	1:1	Number 1880.000,	7.79	1.3535	39.207

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-19,	2025-05-19,
[mm]				08:13	08:21
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	0.235	0.253
Sensor Surface	3.0	1.4	psSAR10g [W/kg]	0.125	0.127
[mm]			Power Drift [dB]	0.15	0.14
Graded Grid	N/A	Yes	Power Scaling	Disabled	Disabled
Grading Ratio	N/A	1.5	Scaling Factor [dB]		
MAIA	Υ	N/A	TSL Correction	No correction	No correction
Surface	VMS + 6p	VMS + 6p	M2/M1 [%]		86.7
Detection			Dist 3dB Peak		8.2
Scan Method	Measured	Measured	[mm]		







# WCDMA 1900 Body

## **Exposure Conditions**

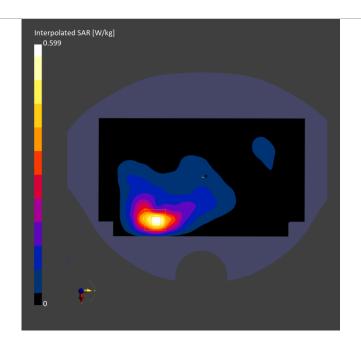
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	Band 2	1:1	1852.400,	7.79	1.355	39.059
HSL	10.00			9262			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-23	2025-05-23
[mm]			psSAR1g [W/kg]	0.450	0.493
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.231	0.251
Sensor Surface	3.0	1.4	Power Drift [dB]	0.13	-0.04
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		83.1
Surface	All points	All points	Dist 3dB Peak		7.6
Detection			[mm]		
Scan Method	Measured	Measured			







## WCDMA 1700 Head

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 4	1:1	1732.400,	7.9	1.318	40.518
HSL	0.00			1412			

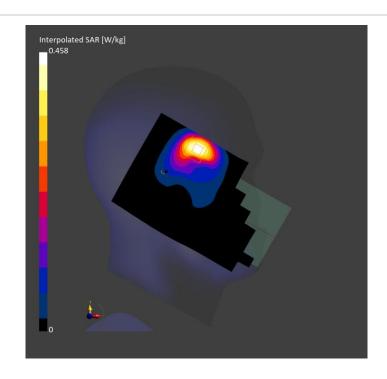
## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
probe tilt) - 2114				

#### **Scan Setup**

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	Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0
[mm]		
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
<b>Grading Ratio</b>	N/A	1.5
MAIA	N/A	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2025-05-16	2025-05-16
psSAR1g [W/kg]	0.368	0.414
psSAR10g [W/kg]	0.206	0.210
Power Drift [dB]	0.07	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.0
Dist 3dB Peak		7.5
[mm]		







# WCDMA 1700 Body

## **Exposure Conditions**

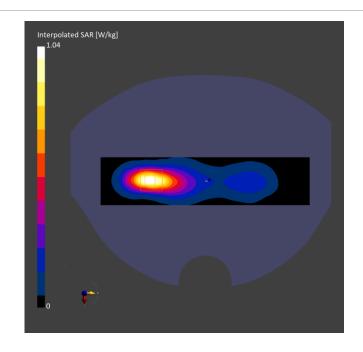
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE RIGHT,	Band 4	1:1	1712.400,	7.9	1.306	40.563
HSL	10.00			1312			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.820	0.840
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.424	0.444
Sensor Surface	3.0	1.4	Power Drift [dB]	0.01	0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		85.8
Surface	All points	All points	Dist 3dB Peak		8.4
Detection			[mm]		
Scan Method	Measured	Measured			







## WCDMA 850 Head

## **Exposure Conditions**

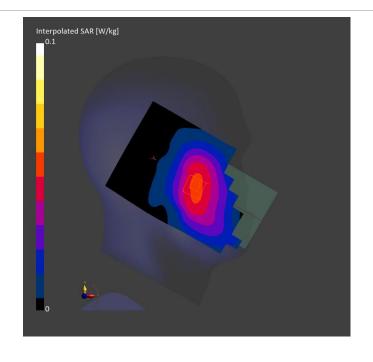
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
				· · · · · · · · · · · · · · · · · · ·			
LeftHead,	CHEEK,	Band 5	1:1	836.600,	9.34	0.893	40.856

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]			psSAR1g [W/kg]	0.047	0.052
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.033	0.043
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.04	-0.09
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		97.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		21.7
Detection			[mm]		
Scan Method	Measured	Measured			







## WCDMA 850 Body

## **Exposure Conditions**

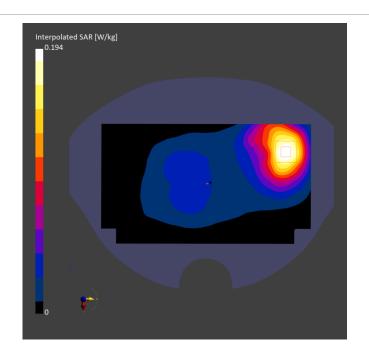
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 5	1:1	Number 846.600,	9.34	0.898	40.864

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]			psSAR1g [W/kg]	0.171	0.182
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.112	0.109
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.03	-0.08
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		85.8
Surface	All points	All points	Dist 3dB Peak		12.6
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B7 Head

## **Exposure Conditions**

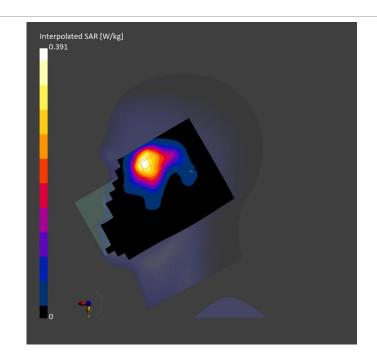
Phantom	Position, Test	Band		<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance				[MHz],	Factor	Conductivity	Permittivity
	[mm]				Channel		[S/m]	
					Number			
RightHead,	CHEEK,	Band	7	1:1	2535.000,	7.12	1.882	39.818

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.300	0.315
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.157	0.166
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.08	0.09
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		78.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.9
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B7 Body

## **Exposure Conditions**

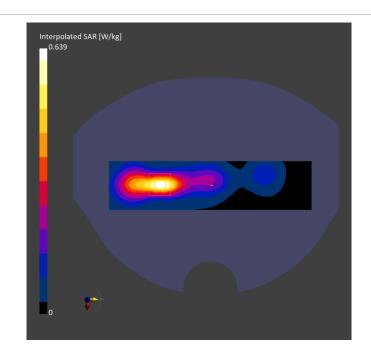
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE LEFT,	Band 7	1:1	2535.000,	7.12	1.882	39.818
HSL	10.00			21100			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.469	0.477
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.217	0.229
Sensor Surface	3.0	1.4	Power Drift [dB]	0.07	-0.19
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		81.4
Surface	All points	All points	Dist 3dB Peak		8.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B12 Head

## **Exposure Conditions**

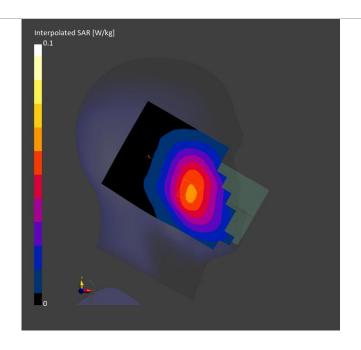
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 12	1:1	711.000,	9.34	0.855	41.681
HSL	0.00			23130			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	0.054	0.058
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.038	0.048
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.08	0.08
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		97.8
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		> 15.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B12 Body

## **Exposure Conditions**

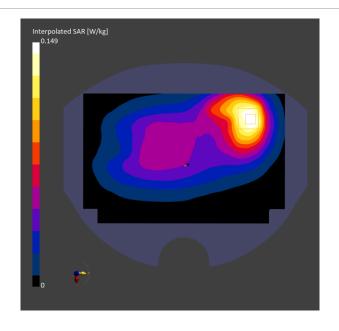
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 12	1:1	711.000,	9.34	0.855	41.681
	,			•			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]				psSAR1g [W/kg]	0.131	0.137
Grid Ste	eps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.089	0.085
Sensor	Surface	3.0	1.4	Power Drift [dB]	0.06	0.01
[mm]				Power Scaling	Disabled	Disabled
Graded	Grid	N/A	Yes	Scaling Factor [dB]		
Grading	g Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		Υ	N/A	M2/M1 [%]		85.6
Surface		All points	All points	Dist 3dB Peak		12.1
Detection	on			[mm]		
Scan Me	ethod	Measured	Measured			







## LTE B13 Head

## **Exposure Conditions**

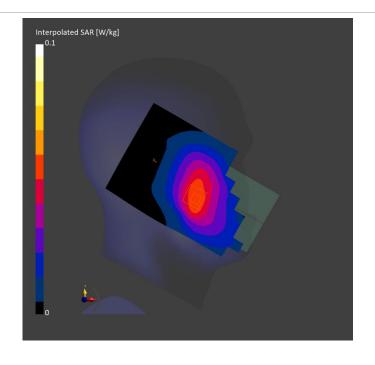
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 13	1:1	782.000,	9.34	0.882	41.497
HSL	0.00			23230			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date  DAE4ip Sn1832, 2024-12-31	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11		
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	0.050	0.054
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.034	0.044
Sensor Surface	3.0	1.4	Power Drift [dB]	0.09	0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		95.8
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		18.1
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B13 Body

## **Exposure Conditions**

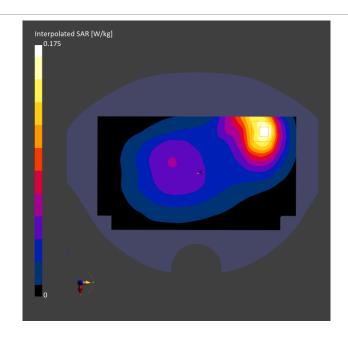
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 13	1:1	782.000,	9.34	0.882	41.497
HSL	10.00			23230			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	0.146	0.155
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.096	0.095
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.07	-0.13
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		83.7
Surface	All points	All points	Dist 3dB Peak		12.6
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B14 Head

## **Exposure Conditions**

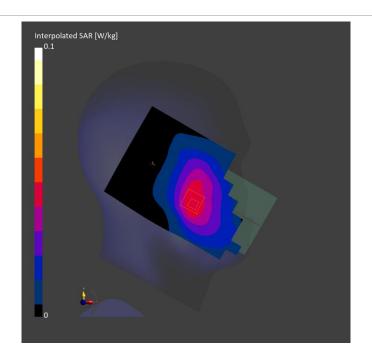
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 14	1:1	793.000,	9.34	0.885	41.441

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	0.043	0.047
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.030	0.039
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.11	-0.09
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		98.0
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		20.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B14 Body

## **Exposure Conditions**

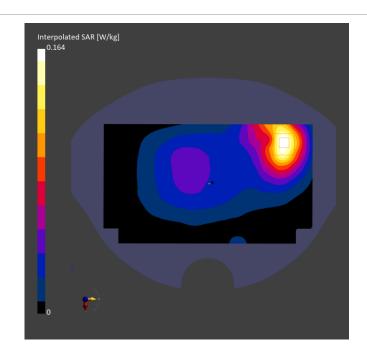
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 14	1:1	793.000,	9.34	0.885	41.441
HSL	10.00			23330			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date		
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31		
tilt) - 2114					

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	0.139	0.136
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.090	0.084
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.05	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		84.5
Surface	All points	All points	Dist 3dB Peak		12.6
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B25 Head

## **Exposure Conditions**

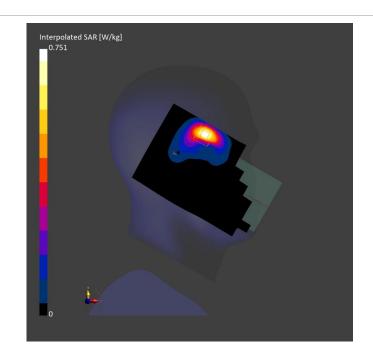
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 25	1:1	1905.000,	7.48	1.395	38.953
HSL	0.00			26590			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	0.574	0.582
Grid Steps [mm]	15.0 x 15.0	5.9 x 5.9 x 1.5	psSAR10g [W/kg]	0.293	0.283
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.11	-0.08
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		81.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		8.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B25 Body

## **Exposure Conditions**

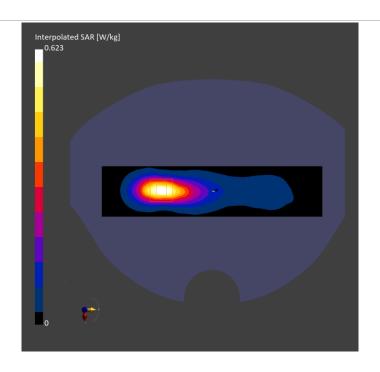
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE RIGHT,	Band 25	1:1	1860.000,	7.79	1.362	39.067
HSL	10.00			26140			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	0.485	0.489
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.246	0.252
Sensor Surface	3.0	1.4	Power Drift [dB]	0.08	0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		86.1
Surface	All points	All points	Dist 3dB Peak		8.4
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B26 Head

## **Exposure Conditions**

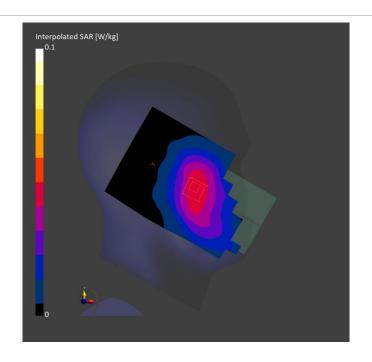
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 26	1:1	Number 831.500,	9.34	0.89	40.854

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]				psSAR1g [W/kg]	0.042	0.047
Grid Ste	eps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.030	0.040
Sensor	Surface	3.0	1.4	Power Drift [dB]	-0.11	-0.05
[mm]				Power Scaling	Disabled	Disabled
Graded	Grid	N/A	Yes	Scaling Factor [dB]		
Grading	g Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		Υ	Υ	M2/M1 [%]		99.6
Surface		VMS + 6p	VMS + 6p	Dist 3dB Peak		> 15.0
Detection	on			[mm]		
Scan Mo	ethod	Measured	Measured			







## LTE B26 Body

## **Exposure Conditions**

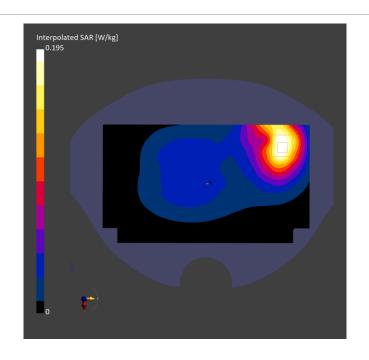
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
				Nullibei			
Flat,	BACK,	Band 26	1:1	831.500,	9.34	0.89	40.854

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
+il+\ - 211 <i>1</i>				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]			psSAR1g [W/kg]	0.170	0.180
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.111	0.109
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.12	-0.09
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		86.3
Surface	All points	All points	Dist 3dB Peak		13.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B30 Head

## **Exposure Conditions**

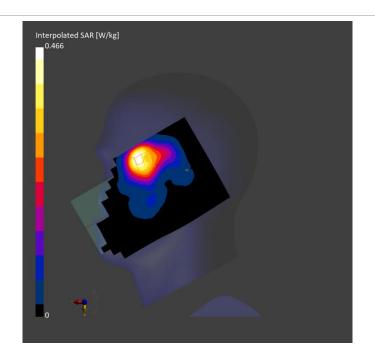
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	CHEEK,	Band 30	1:1	2310.000,	7.37	1.664	39.517

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-27	2025-05-27
[mm]			psSAR1g [W/kg]	0.371	0.374
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.205	0.216
Sensor Surface	3.0	1.4	Power Drift [dB]	0.09	-0.03
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		84.1
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		11.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B30 Body

## **Exposure Conditions**

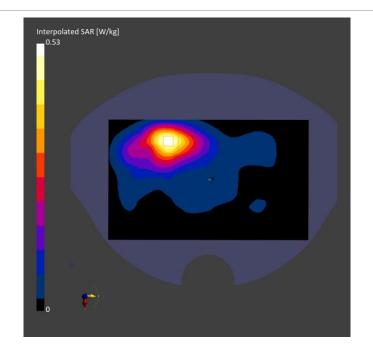
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 30	1:1	2310.000,	7.37	1.664	39.517
HSL	10.00			27710			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-27	2025-05-27
[mm]			psSAR1g [W/kg]	0.409	0.414
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.224	0.231
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.11	-0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		82.2
Surface	All points	All points	Dist 3dB Peak		12.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B41 Head

## **Exposure Conditions**

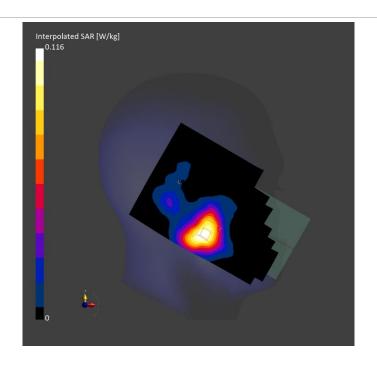
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 41	1:1.58	2680.000,	6.95	1.993	39.676
HSL	0.00			41490			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.091	0.098
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.048	0.053
Sensor Surface	3.0	1.4	Power Drift [dB]	0.12	0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		84.8
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		14.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B41 Body

## **Exposure Conditions**

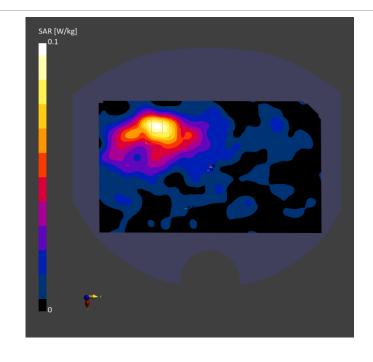
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 41	1:1.58	2680.000,	6.95	1.993	39.676
HSL	10.00			41490			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.10	0.112
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.051	0.061
Sensor Surface	3.0	1.4	Power Drift [dB]	0.09	0.07
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		82.4
Surface	All points	All points	Dist 3dB Peak		10.2
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B48 Head

## **Exposure Conditions**

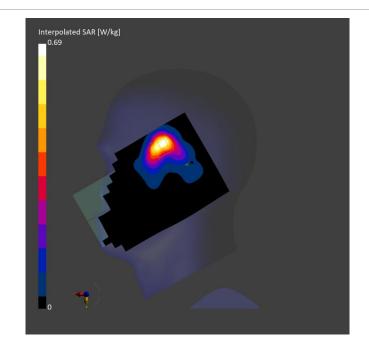
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	CHEEK,	Band 48	1:1.58	3690.000,	6.4	3.142	37.395
HSL	0.00			56640			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-07	2025-06-07
[mm]			psSAR1g [W/kg]	0.495	0.547
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.216	0.235
Sensor Surface	3.0	1.4	Power Drift [dB]	0.03	-0.05
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		74.2
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B48 Body

## **Exposure Conditions**

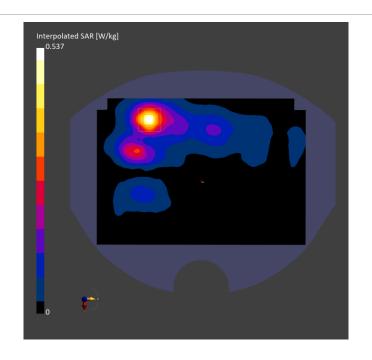
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	Band 48	1:1.58	3690.000,	6.4	3.142	37.395

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-07	2025-06-07
[mm]			psSAR1g [W/kg]	0.373	0.397
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.149	0.170
Sensor Surface	3.0	1.4	Power Drift [dB]	0.09	-0.14
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		76.8
Surface	All points	All points	Dist 3dB Peak		10.3
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B66 ANT2 Head

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 66	1:1	1745.000,	7.9	1.326	40.496
HSL	0.00			132322			

## **Hardware Setup**

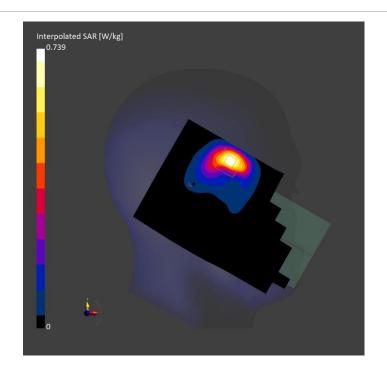
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

**Measurement Results** 

#### **Scan Setup**

		Area Scan	Zoom Scan		
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]				psSAR1g [W/kg]	0.562	0.548
Grid St	eps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.292	0.267
Sensor	Surface	3.0	1.4	Power Drift [dB]	0.01	-0.01
[mm]				Power Scaling	Disabled	Disabled
Gradeo	d Grid	N/A	Yes	Scaling Factor [dB]		
Gradin	g Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		N/A	N/A	M2/M1 [%]		79.5
Surface	e	VMS + 6p	VMS + 6p	Dist 3dB Peak		6.8
Detect	ion			[mm]		
Scan N	1ethod	Measured	Measured			







## LTE B66 ANT2 Body

## **Exposure Conditions**

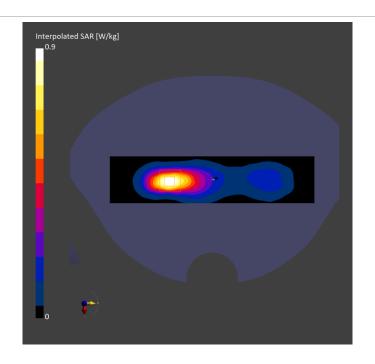
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE RIGHT,	Band 66	1:1	1745.000,	7.9	1.326	40.496

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.512	0.547
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.215	0.276
Sensor Surface	3.0	1.4	Power Drift [dB]	0.05	-0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		84.2
Surface	Unknown method	All points	Dist 3dB Peak		8.4
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B71 Head

## **Exposure Conditions**

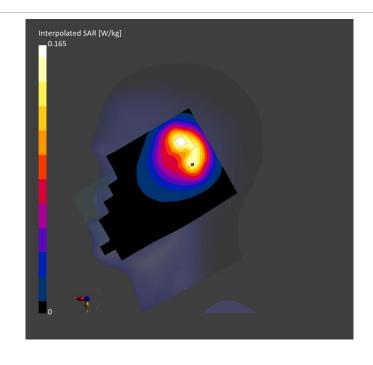
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	TILT,	Band 71	1:1	688.000,	9.34	0.846	41.771
HSL	0.00			133372			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]				psSAR1g [W/kg]	0.137	0.155
Grid Ste	eps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.088	0.079
Sensor	Surface	3.0	1.4	Power Drift [dB]	0.01	-0.02
[mm]				Power Scaling	Disabled	Disabled
Graded	Grid	N/A	Yes	Scaling Factor [dB]		
Grading	Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		Υ	N/A	M2/M1 [%]		78.2
Surface		VMS + 6p	VMS + 6p	Dist 3dB Peak		7.6
Detection	on			[mm]		
Scan Me	ethod	Measured	Measured			







## LTE B71 Body

## **Exposure Conditions**

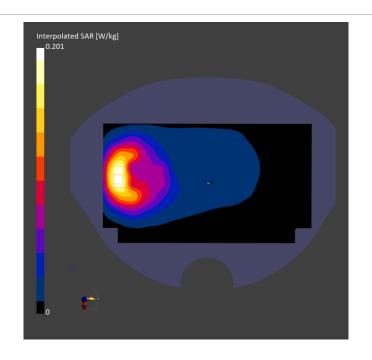
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band 71	1:1	688.000,	9.34	0.846	41.771

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

## **Scan Setup**

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]				psSAR1g [W/kg]	0.166	0.174
Grid Ste	ps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.105	0.10
Sensor	Surface	3.0	1.4	Power Drift [dB]	0.09	-0.01
[mm]				Power Scaling	Disabled	Disabled
Graded	Grid	N/A	Yes	Scaling Factor [dB]		
Grading	Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		N/A	N/A	M2/M1 [%]		83.0
Surface		All points	All points	Dist 3dB Peak		8.8
Detection	on			[mm]		
Scan Me	ethod	Measured	Measured			







## LTE B2 ANT3 Head

## **Exposure Conditions**

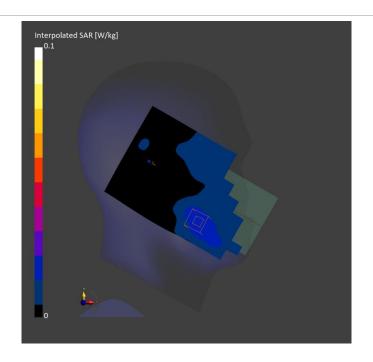
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK.	Band 2	2 1:1	1860.000,	7.79	1.362	39.067
20.0.1000)	CITELI,	Dariu 2	2 1.1	1000.000,	7.75	1.502	33.007

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.020	0.026
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.012	0.015
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.11	0.18
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		95.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		14.3
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B2 ANT3 Body

## **Exposure Conditions**

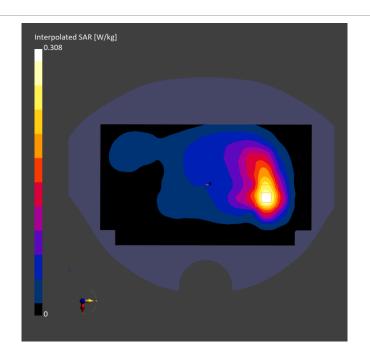
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	Band 2	1:1	1860.000,	7.79	1.362	39.067

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.246	0.282
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.134	0.156
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.05	0.12
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		85.8
Surface	All points	All points	Dist 3dB Peak		9.9
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B7 ANT3 Head

## **Exposure Conditions**

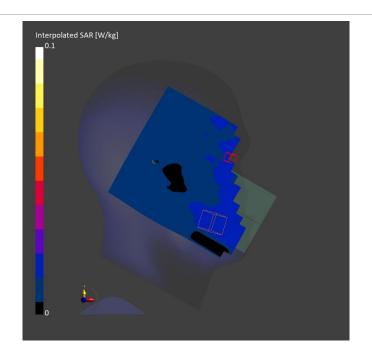
Phantom	Position, Test	Band		<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance				[MHz],	Factor	Conductivity	Permittivity
	[mm]				Channel		[S/m]	
					Number			
LeftHead,	CHEEK,	Band	7	1:1	2535.000,	7.12	1.882	39.818

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.019	0.022
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.011	0.021
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.07	0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		91.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		> 15.0
Detection			[mm]		
Scan Method	Measured	Measured			







## LTE B7 ANT3 Body

## **Exposure Conditions**

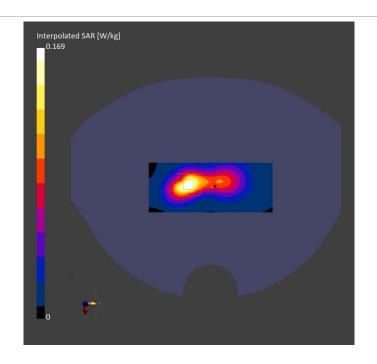
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE	Band 7	1:1	2535.000,	7.12	1.882	39.818
HSL	воттом,			21100			
	10.00						

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt\ - 211 <i>1</i>			

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 120.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.128	0.136
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.060	0.069
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.15	-0.10
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		83.8
Surface	All points	All points	Dist 3dB Peak		8.6
Detection			[mm]		
Scan Method	Measured	Measured			







# LTE B66 ANT3 Head

# **Exposure Conditions**

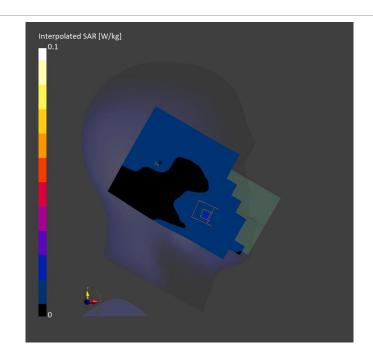
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band 66	1:1	1770.000,	7.79	1.339	40.507

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

# **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.014	0.016
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.009	0.015
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.01	0.04
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		87.3
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		13.0
Detection			[mm]		
Scan Method	Measured	Measured			







# LTE B66 ANT3 Body

# **Exposure Conditions**

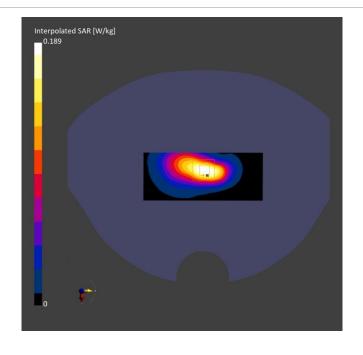
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE	Band 66	1:1	1770.000,	7.79	1.339	40.507
HSL	воттом,			132572			
	10.00						

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

# **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 120.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.129	0.132
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.069	0.074
Sensor Surface	3.0	1.4	Power Drift [dB]	0.01	-0.04
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		84.9
Surface	All points	All points	Dist 3dB Peak		8.5
Detection			[mm]		
Scan Method	Measured	Measured			







# N2 ANT2 Head

# **Exposure Conditions**

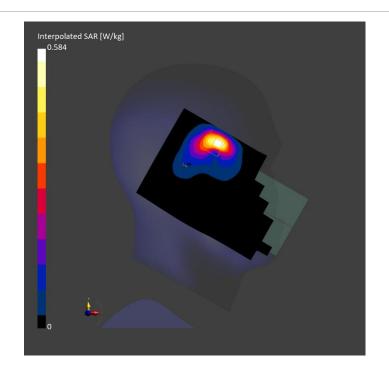
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n2	1:1	1880.000,	7.79	1.375	39.032

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Scan Setup				Measurement Resu	lts	
		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Ext	tents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]				psSAR1g [W/kg]	0.432	0.521
Grid Steps [n	nm]	15.0 x 15.0	5.2 x 5.2 x 1.5	psSAR10g [W/kg]	0.223	0.254
Sensor Su	rface	3.0	1.4	Power Drift [dB]	-0.03	0.10
[mm]				Power Scaling	Disabled	Disabled
Graded Grid		N/A	Yes	Scaling Factor [dB]		
Grading Ratio	0	N/A	1.5	TSL Correction	No correction	No correction
MAIA		N/A	N/A	M2/M1 [%]		81.4
Surface		VMS + 6p	VMS + 6p	Dist 3dB Peak		7.1
Detection				[mm]		
Scan Method	d	Measured	Measured			







# **N2 ANT2 Body**

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band n2	1;1	1880.000,	7.79	1.375	39.032
HSL				376000			

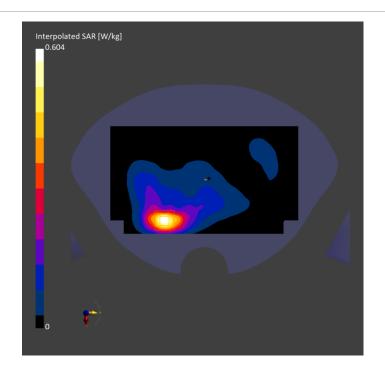
#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### Scan Setup

	Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0
[mm]		
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	All points	All points
Detection		
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2025-05-21	2025-05-21
psSAR1g [W/kg]	0.464	0.474
psSAR10g [W/kg]	0.240	0.244
Power Drift [dB]	0.05	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.4
Dist 3dB Peak		8.8
[mm]		







# N2 ANT3 Head

# **Exposure Conditions**

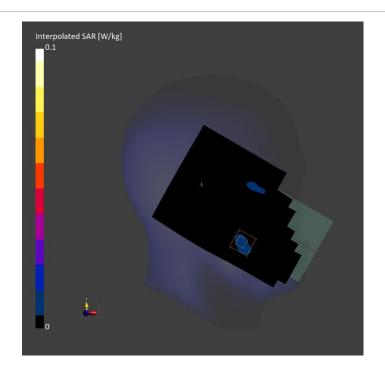
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n2	1:1	1880.000,	7.79	1.375	39.032
HSL	0.00			376000			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	0.010	0.012
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.007	0.008
Sensor Surface	3.0	1.4	Power Drift [dB]	0.04	0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		78.2
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		4.2
Detection			[mm]		
Scan Method	Measured	Measured			







# **N2 ANT3 Body**

# **Exposure Conditions**

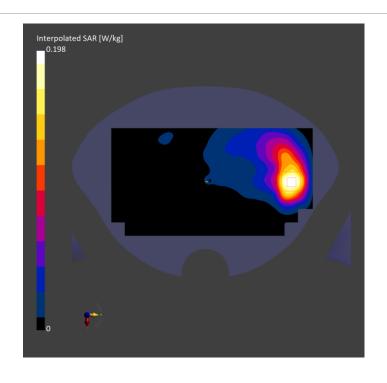
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band n2	1:1	1880.000,	7.79	1.375	39.032
HSL	10.00			376000			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

Scan Setup

-					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	0.167	0.203
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.095	0.107
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.06	-0.08
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		81.1
Surface	All points	All points	Dist 3dB Peak		11.1
Detection			[mm]		
Scan Method	Measured	Measured			







2025-05-13 0.052 0.043 -0.09 Disabled

No correction

97.2 > 15.0

# N5 ANT1 Head

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n5	1:1	836.500,	9.34	0.893	40.856
HSL	0.00			167300			

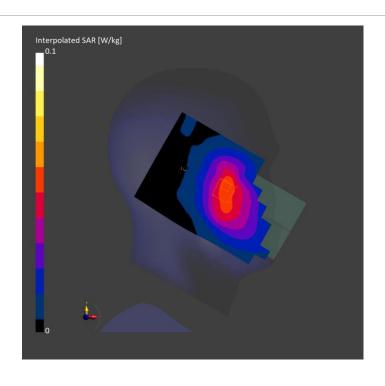
#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

**Measurement Results** 

tilt) - 2114

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	Area Scan	Zoom Scan		Area Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13
[mm]			psSAR1g [W/kg]	0.050
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.034
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.12
[mm]			Power Scaling	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]	
Grading Ratio	N/A	1.5	TSL Correction	No correction
MAIA	Υ	Υ	M2/M1 [%]	
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak	
Detection			[mm]	
Scan Method	Measured	Measured		







# **N5 ANT1 Body**

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	ВАСК,	Band n5	1:1	Number 836.500,	9.34	0.893	40.856

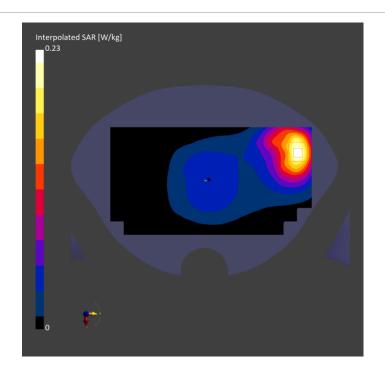
# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

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		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]				psSAR1g [W/kg]	0.192	0.187
Grid Ste	eps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.123	0.114
Sensor	Surface	3.0	1.4	Power Drift [dB]	0.06	0.01
[mm]				Power Scaling	Disabled	Disabled
Graded	Grid	N/A	Yes	Scaling Factor [dB]		
Grading	g Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		N/A	N/A	M2/M1 [%]		85.9
Surface	:	All points	All points	Dist 3dB Peak		12.0
Detecti	on			[mm]		
Scan M	ethod	Measured	Measured			







# N7 ANT4 Head

# **Exposure Conditions**

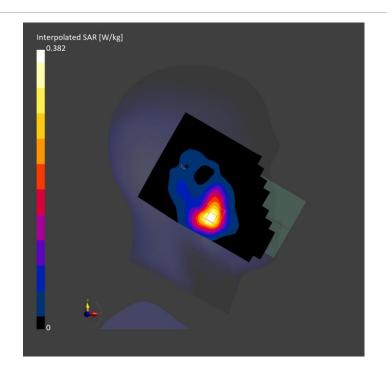
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n7	1:1	2535.000,	7.12	1.882	39.818
HSL	0.00			507000			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.295	0.302
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.148	0.165
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.04	0.05
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		89.3
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		12.7
Detection			[mm]		
Scan Method	Measured	Measured			







# N7 ANT4 Body

# **Exposure Conditions**

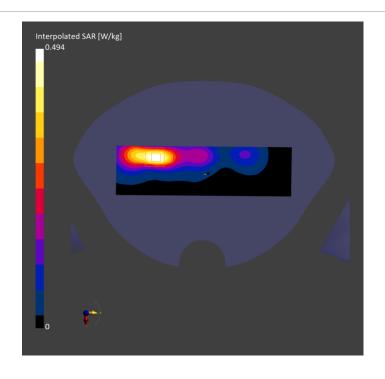
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE LEFT,	Band n7	1:1	2567.500,	7.12	1.897	39.858
HSL	10.00			513500			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.383	0.399
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.186	0.193
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.10	-0.07
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		80.4
Surface	All points	All points	Dist 3dB Peak		8.3
Detection			[mm]		
Scan Method	Measured	Measured			







# N7 ANT3 Head

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n7	1:1	2535.000,	7.12	1.882	39.818

#### **Hardware Setup**

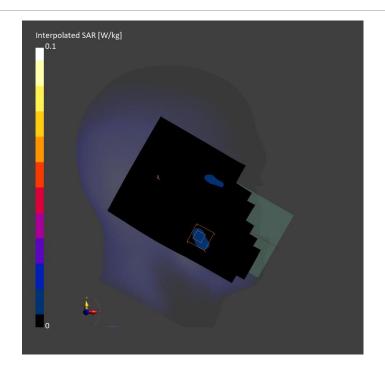
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

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#### **Scan Setup**

	Zoom Scan	Area Scan		
Date	30.0 x 30.0 x 30.0	120.0 x 200.0	Extents	Grid
psSAR1g [\				[mm]
psSAR10g	5.0 x 5.0 x 1.5	10.0 x 10.0	eps [mm]	Grid Ste
Power Drif	1.4	3.0	Surface	Sensor
Power Scal				[mm]
Scaling Fac	Yes	N/A	Grid	Graded
TSL Correct	1.5	N/A	g Ratio	Grading
M2/M1 [%	Υ	Υ		MAIA
Dist 3dB	VMS + 6p	VMS + 6p	!	Surface
[mm]			on	Detection
	Measured	Measured	ethod	Scan Me

	Area Scan	Zoom Scan
Date	2025-06-03	2025-06-03
psSAR1g [W/kg]	0.009	0.009
psSAR10g [W/kg]	0.004	0.004
Power Drift [dB]	0.04	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.2
Dist 3dB Peak		4.2
[mm]		







# N7 ANT3 Body

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band n7	1:1	2535.000,	7.12	1.882	39.818
HSL	10.00			507000			

#### **Hardware Setup**

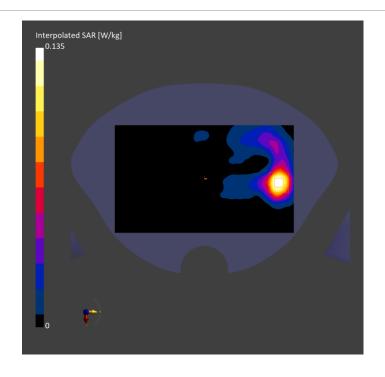
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

#### **Scan Setup**

•			
	Area Scan	Zoom Scan	
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date
[mm]			psSAR1g [W/kg]
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]
Sensor Surface	3.0	1.4	Power Drift [dB]
[mm]			Power Scaling
Graded Grid	N/A	Yes	Scaling Factor [dB]
Grading Ratio	N/A	1.5	TSL Correction
MAIA	Υ	Υ	M2/M1 [%]
Surface	All points	All points	Dist 3dB Peak
Detection			[mm]
Scan Method	Measured	Measured	

	Area Scan	Zoom Scan
Date	2025-06-03	2025-06-03
psSAR1g [W/kg]	0.107	0.112
psSAR10g [W/kg]	0.052	0.053
Power Drift [dB]	-0.07	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.2
Dist 3dB Peak		10.0
[mm]		







# N12 ANT1 Body

# **Exposure Conditions**

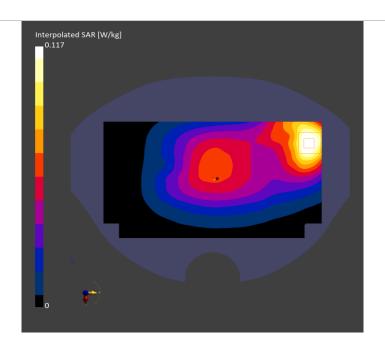
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	Band n12	1:1	707.500,	9.34	0.852	41.706
HSL	10.00			141500			

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

		Wiedsurement Nesui	13	
Area Scan	Zoom Scan		Area Scan	Zoom Scan
120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
		psSAR1g [W/kg]	0.103	0.109
15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.070	0.068
3.0	1.4	Power Drift [dB]	-0.12	0.03
		Power Scaling	Disabled	Disabled
N/A	Yes	Scaling Factor [dB]		
N/A	1.5	TSL Correction	No correction	No correction
Υ	Υ	M2/M1 [%]		85.9
All points	All points	Dist 3dB Peak		13.5
		[mm]		
Measured	Measured			
	120.0 x 210.0 15.0 x 15.0 3.0 N/A N/A Y All points	120.0 x 210.0 30.0 x 30.0 x 30.0 x 30.0  15.0 x 15.0 6.0 x 6.0 x 1.5 3.0 1.4  N/A Yes N/A 1.5 Y Y  All points All points	Area Scan         Zoom Scan           120.0 x 210.0         30.0 x 30.0 x 30.0         Date           psSAR1g [W/kg]         psSAR10g [W/kg]           3.0         1.4         Power Drift [dB]           Power Scaling         N/A         Yes         Scaling Factor [dB]           N/A         1.5         TSL Correction           Y         Y         M2/M1 [%]           All points         All points         Dist 3dB Peak           [mm]         [mm]	Area Scan         Zoom Scan         Date         2025-05-25           psSAR1g [W/kg]         0.103           15.0 x 15.0         6.0 x 6.0 x 1.5         psSAR10g [W/kg]         0.070           3.0         1.4         Power Drift [dB]         -0.12           Power Scaling         Disabled           N/A         Yes         Scaling Factor [dB]           N/A         1.5         TSL Correction         No correction           Y         Y         M2/M1 [%]           All points         Dist 3dB Peak         [mm]







# N12 ANT1 Head

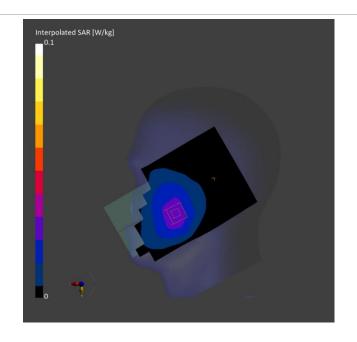
# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	CHEEK,	Band n12	1:1	707.500,	9.34	0.852	41.706
HSL	0.00			141500			

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

Scan Setup			Measurement Resul	lts	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	0.028	0.029
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.019	0.023
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.06	-0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		96.0
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		22.1
Detection			[mm]		
Scan Method	Measured	Measured			







# N41 ANT4 Head

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	CHEEK,	Band n41	1:1	Number 2592.990,	7.12	1.913	39.779

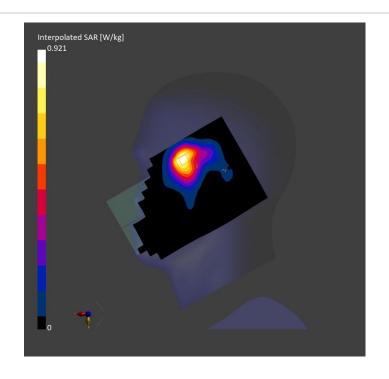
#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

# Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.703	0.709
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.355	0.368
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.02	-0.03
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		78.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.3
Detection			[mm]		
Scan Method	Measured	Measured			







# N41 ANT4 Body

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band n41	1:1	2592.990,	7.12	1.913	39.779
HSL	10.00			518598			

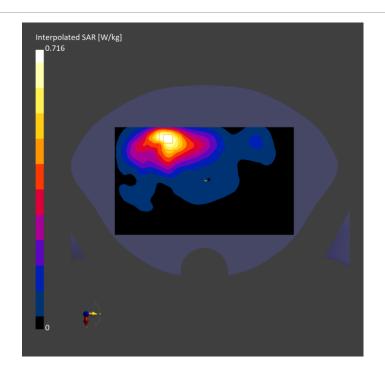
# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

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	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	0.555	0.570
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.289	0.296
Sensor Surface	3.0	1.4	Power Drift [dB]	0.16	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		78.7
Surface	All points	All points	Dist 3dB Peak		10.0
Detection			[mm]		
Scan Method	Measured	Measured			







# N48 ANT4 Head

# **Exposure Conditions**

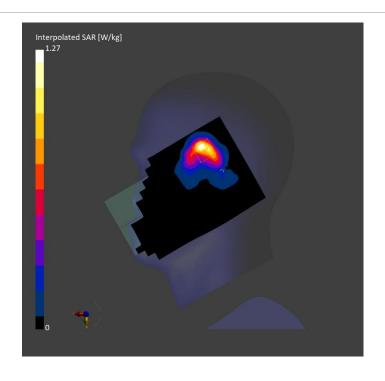
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	CHEEK,	Band n48	1:1	3624.985,	6.4	3.085	37.411

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-07	2025-06-07
[mm]			psSAR1g [W/kg]	0.850	0.912
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.358	0.382
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.02	0.04
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		74.8
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		8.1
Detection			[mm]		
Scan Method	Measured	Measured			







# N48 ANT7 Body

# **Exposure Conditions**

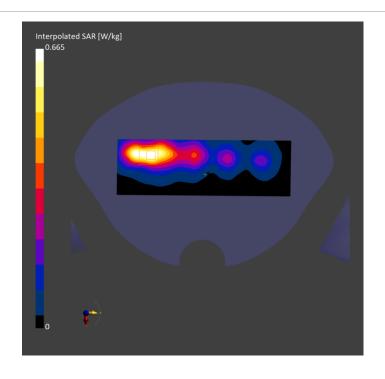
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE LEFT,	Band n48	1:1	3625.000,	6.4	3.085	37.411

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-07	2025-06-07
[mm]			psSAR1g [W/kg]	0.495	0.506
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.226	0.237
Sensor Surface	3.0	1.4	Power Drift [dB]	0.08	-0.12
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		77.4
Surface	All points	All points	Dist 3dB Peak		10.0
Detection			[mm]		
Scan Method	Measured	Measured			







# N66 ANT2 Head

# **Exposure Conditions**

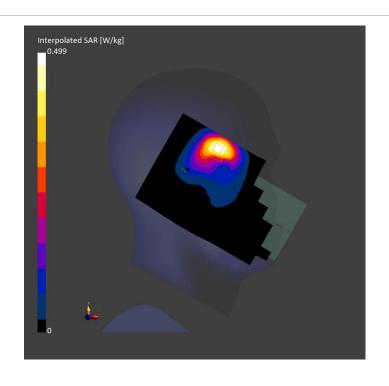
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n66	1:1	1745.000,	7.9	1.326	40.496

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Scan Setup			Measurement Resu	lts	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.401	0.484
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.224	0.234
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.10	0.08
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		88.0
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		7.7
Detection			[mm]		
Scan Method	Measured	Measured			







# N66 ANT2 Body

# **Exposure Conditions**

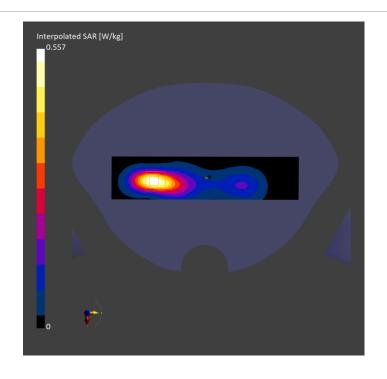
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE RIGHT,	Band n66	1:1	1745.000,	7.9	1.326	40.496
	•						

#### **Hardware Setup**

Ph	antom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Tw	vin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt	:) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	0.447	0.513
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.232	0.261
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.01	0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		80.7
Surface	All points	All points	Dist 3dB Peak		8.5
Detection			[mm]		
Scan Method	Measured	Measured			







# N71 ANT1 Head

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	TILT,	Band n71	1:1	Number 680.500,	9.34	0.844	41.815

#### **Hardware Setup**

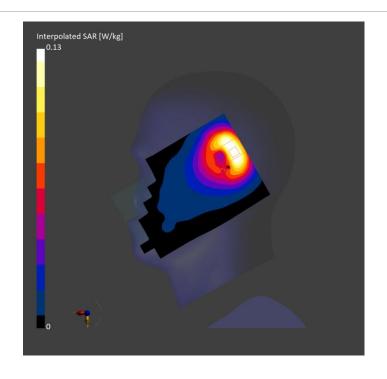
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

,

#### **Scan Setup**

		Area Scan	Zoom Scan	
Grid	Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date
[mm]				psSAR1g [W/kg]
Grid Ste	ps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]
Sensor	Surface	3.0	1.4	Power Drift [dB]
[mm]				Power Scaling
Graded	Grid	N/A	Yes	Scaling Factor [dB]
Grading	Ratio	N/A	1.5	TSL Correction
MAIA		Υ	N/A	M2/M1 [%]
Surface		VMS + 6p	VMS + 6p	Dist 3dB Peak
Detection	on			[mm]
Scan Me	ethod	Measured	Measured	

	Area Scan	Zoom Scan
Date	2025-05-25	2025-05-25
psSAR1g [W/kg]	0.113	0.108
psSAR10g [W/kg]	0.074	0.063
Power Drift [dB]	-0.07	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.6
Dist 3dB Peak		8.1
[mm]		







Zoom Scan 2025-05-25 0.138 0.080 0.12 Disabled

No correction

85.7 9.6

# N71 ANT1 Body

# **Exposure Conditions**

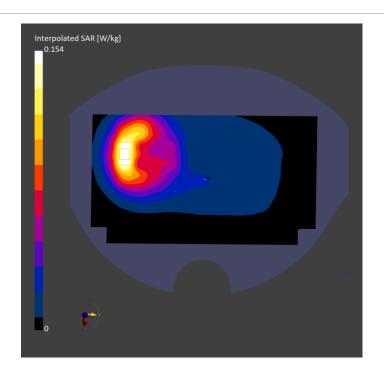
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	Band n71	1:1	680.500,	9.34	0.844	41.815

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Scan Setup			Measurement Resu	lts
	Area Scan	Zoom Scan		Area Scan
Grid Extents	120.0 x 210.0	30.0 x 30.0 x 30.0	Date	2025-05-25
[mm]			psSAR1g [W/kg]	0.129
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	0.081
Sensor Surface	3.0	1.4	Power Drift [dB]	0.05
[mm]			Power Scaling	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]	
Grading Ratio	N/A	1.5	TSL Correction	No correction
MAIA	N/A	N/A	M2/M1 [%]	
Surface	All points	All points	Dist 3dB Peak	
Detection			[mm]	
Scan Method	Measured	Measured		







# N78 ANT7 Head

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
RightHead,	CHEEK,	Band n78	1:1	3500.010,	6.4	2.93	37.34
HSL	0.00			633334			

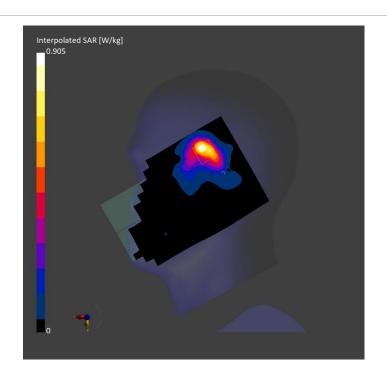
# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Mea	sureme	nt Resul	ts
-----	--------	----------	----

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	120.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-06	2025-06-06
[mm]				psSAR1g [W/kg]	0.614	0.655
Grid St	eps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.260	0.285
Sensor	Surface	3.0	1.4	Power Drift [dB]	-0.04	0.12
[mm]				Power Scaling	Disabled	Disabled
Graded	l Grid	N/A	Yes	Scaling Factor [dB]		
Gradin	g Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA		N/A	N/A	M2/M1 [%]		75.1
Surface	9	VMS + 6p	VMS + 6p	Dist 3dB Peak		8.5
Detecti	ion			[mm]		
Scan M	lethod	Measured	Measured			







# N78 ANT7 Body

# **Exposure Conditions**

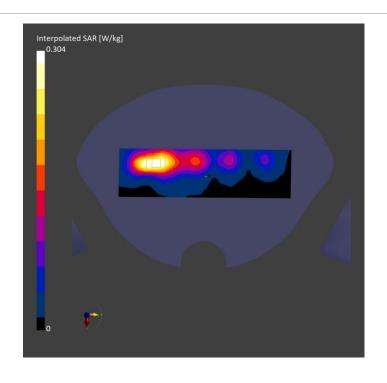
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE LEFT,	Band n78	1:1	3500.010,	6.4	2.93	37.34

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Scan Setup			Measurement Resu	lts	
	Area Scan	Zoom Scan		Area Scan	Zoom So
Grid Extents	48.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-06	2025-06
[mm]			psSAR1g [W/kg]	0.230	0.3
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.107	0.
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.05	-(
[mm]			Power Scaling	Disabled	Disak
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correct
MAIA	Υ	Υ	M2/M1 [%]		-
Surface	All points	All points	Dist 3dB Peak		2
Detection			[mm]		
Scan Method	Measured	Measured			







# N78 ANT2 Head

# **Exposure Conditions**

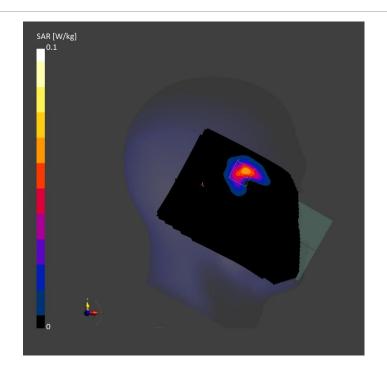
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	Band n78	1:1	3500.010,	6.4	2.93	37.34
HSL	0.00			633334			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

**Scan Setup** 

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	28.0 x 28.0 x 28.0	Date	2025-06-06	2025-06-06
[mm]			psSAR1g [W/kg]	0.050	0.052
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4	psSAR10g [W/kg]	0.020	0.018
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.01	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		72.2
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		6.2
Detection			[mm]		
Scan Method	Measured	Measured			







# N78 ANT2 Body

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	Band n78	1:1	3500.010,	6.4	2.93	37.34
HSL	10.00			633334			

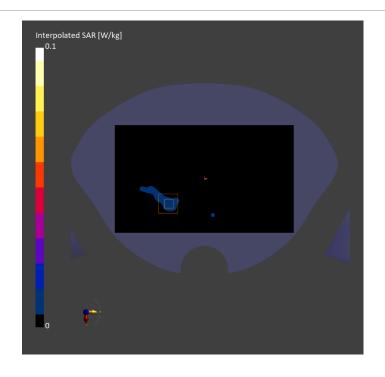
# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Scan Setup**

		Area Scan	Zoom Scan
Grid	Extents	120.0 x 200.0	28.0 x 28.0 x 28.0
[mm]			
Grid Ste	eps [mm]	10.0 x 10.0	4.6 x 4.6 x 1.4
Sensor	Surface	3.0	1.4
[mm]			
Graded	Grid	N/A	Yes
Grading	Ratio	N/A	1.5
MAIA		Υ	Υ
Surface		Unknown method	All points
Detection	on		
Scan Me	ethod	Measured	Measured

	Area Scan	Zoom Scan
Date	2025-06-06	2025-06-06
psSAR1g [W/kg]	0.011	0.012
psSAR10g [W/kg]	0.004	0.005
Power Drift [dB]	-0.09	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		67.7
Dist 3dB Peak		5.6
[mm]		







# WLAN2.4G ANT8 Head

# **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	TILT,	WLAN	1:1	2437.000,	7.37	1.75	39.756

#### **Hardware Setup**

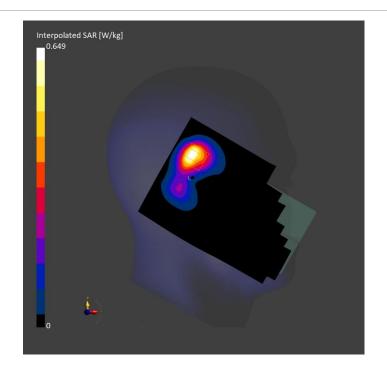
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	

tilt) - 2114

#### **Scan Setup**

		Area Scan	Zoom Scan	
Grid	Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date
[mm]				psSAR1g [W/kg]
Grid Ste	eps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]
Sensor	Surface	3.0	1.4	Power Drift [dB]
[mm]				Power Scaling
Graded	Grid	N/A	Yes	Scaling Factor [dB]
Grading	g Ratio	N/A	1.5	TSL Correction
MAIA		N/A	N/A	M2/M1 [%]
Surface		VMS + 6p	VMS + 6p	Dist 3dB Peak
Detection	on			[mm]
Scan M	ethod	Measured	Measured	

	Area Scan	Zoom Scan
Date	2025-06-03	2025-06-03
psSAR1g [W/kg]	0.493	0.471
psSAR10g [W/kg]	0.237	0.223
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.6
Dist 3dB Peak		8.1
[mm]		







# WLAN2.4G ANT8 Body

# **Exposure Conditions**

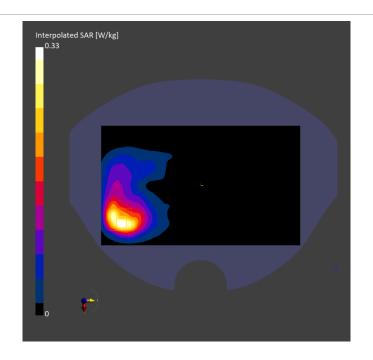
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Marianhan			
				Number			
Flat,	BACK,	WLAN	1:1	2437.000,	7.37	1.75	39.756

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

# **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.248	0.270
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.127	0.127
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.03	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		80.9
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		8.1
Detection			[mm]		
Scan Method	Measured	Measured			







# WLAN2.4G ANT9 Head

# **Exposure Conditions**

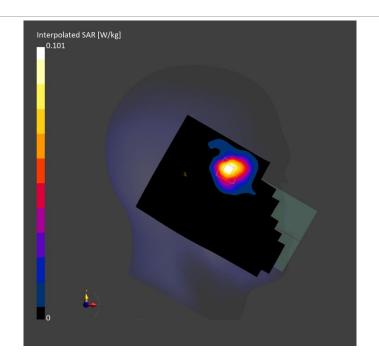
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	WLAN	1:1	2412.000,	7.37	1.726	39.823
HSL	0.00	2.4GHz		1			

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
tilt) - 2114				

# **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.073	0.076
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.035	0.036
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.09	0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		N/A
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		7.9
Detection			[mm]		
Scan Method	Measured	Measured			







# **WLAN2.4G ANT9 Body**

# **Exposure Conditions**

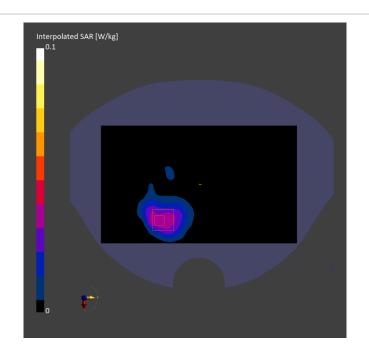
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	WLAN	1:1	Number 2412.000,	7.37	1.726	39.823

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
	Alea Stail	200111 Scall		Alea Scall	200111 Scall
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.032	0.029
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.018	0.016
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.07	-0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		85.4
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		8.3
Detection			[mm]		
Scan Method	Measured	Measured			







# WLAN 2.4G MIMO Head

# **Exposure Conditions**

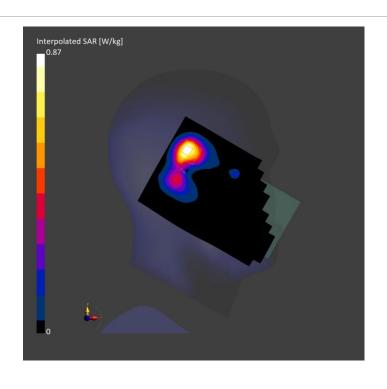
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	TILT,	WLAN	1:1	Number 2412.000,	7.37	1.726	39.823

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Scan Setup			Measurement Resu	lts	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	0.666	0.623
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	0.332	0.310
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.12	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		79.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		7.7
Detection			[mm]		
Scan Method	Measured	Measured			







# **WLAN2.4G MIMO Body**

# **Exposure Conditions**

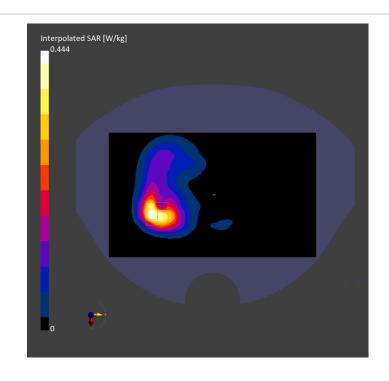
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	WLAN	1:1	2412.000,	7.37	1.726	39.823
HSL	10.00	2.4GHz		1			

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

# **Scan Setup**

=					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	30.0 x 30.0 x 30.0	Date	2025-06-04,	2025-06-04,
[mm]				16:16	16:24
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	0.334	0.335
Sensor Surface	3.0	1.4	psSAR10g [W/kg]	0.162	0.160
[mm]			Power Drift [dB]	0.00	-0.02
Graded Grid	N/A	Yes	Power Scaling	Disabled	Disabled
Grading Ratio	N/A	1.5	Scaling Factor [dB]		
MAIA	N/A	N/A	TSL Correction	No correction	No correction
Surface	VMS + 6p	VMS + 6p	M2/M1 [%]		77.8
Detection			Dist 3dB Peak		8.0
Scan Method	Measured	Measured	[mm]		







# **WLAN5G ANT6 Head**

# **Exposure Conditions**

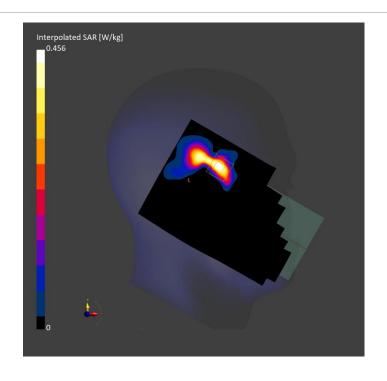
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	WLAN	1:1	5320.000,	5.03	4.85	36.615

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

Scan Setup			Measurement Resu	lts	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-10	2025-06-10
[mm]			psSAR1g [W/kg]	0.314	0.335
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	0.102	0.110
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.05	0.11
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		67.4
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		6.2
Detection			[mm]		
Scan Method	Measured	Measured			







# **WLAN5G ANT6 Body**

# **Exposure Conditions**

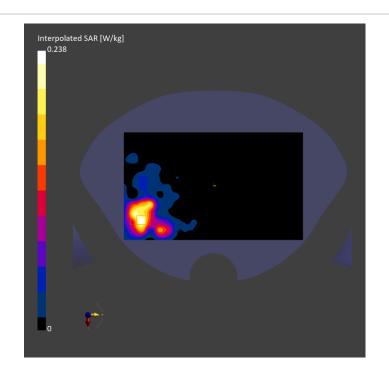
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	WLAN	1:1	Number 5320.000,	5.03	4.85	36.615

#### **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Measurement Results Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-10	2025-06-10
[mm]			psSAR1g [W/kg]	0.162	0.178
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	0.067	0.072
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.03	-0.01
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		67.1
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		8.6
Detection			[mm]		
Scan Method	Measured	Measured			







# **WLAN5G ANT9 Head**

# **Exposure Conditions**

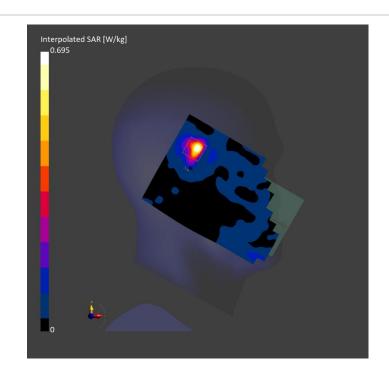
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	TILT,	WLAN	1:1	Number 5765.000,	4.59	5.102	36.228

#### **Hardware Setup**

Ph	antom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Tw	vin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt	t) - 2114			

# **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-13	2025-06-13
[mm]			psSAR1g [W/kg]	0.447	0.516
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	0.140	0.209
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.07	0.12
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA	Υ	N/A	M2/M1 [%]		67.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		6.5
Detection			[mm]		
Scan Method	Measured	Measured			







# **WLAN5G ANT9 Body**

# **Exposure Conditions**

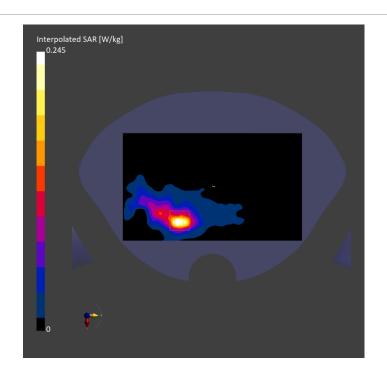
Phantom	Position, Test	Band	Duty Cycle	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	WLAN	1:1	Number 5520.000,	4.42	4.843	36.503

# **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

**Scan Setup** 

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-12	2025-06-12
[mm]			psSAR1g [W/kg]	0.166	0.197
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	0.056	0.066
Sensor Surface	3.0	1.4	Power Drift [dB]	0.04	-0.12
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		64.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		7.2
Detection			[mm]		
Scan Method	Measured	Measured			







## **WLAN5G MIMO Head**

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	CHEEK,	WLAN	1:1	5320.000,	5.03	4.85	36.615

#### **Hardware Setup**

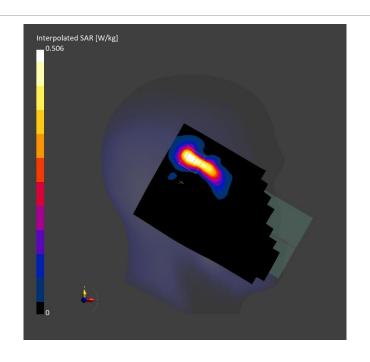
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

#### **Scan Setup**

=			
	Area Scan	Zoom Scan	
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date
[mm]			psSAR1g [W/
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W
Sensor Surface	3.0	1.4	Power Drift [
[mm]			Power Scalin
Graded Grid	N/A	Yes	Scaling Facto
Grading Ratio	N/A	1.4	TSL Correction
MAIA	Υ	Υ	M2/M1 [%]
Surface	VMS + 6p	VMS + 6p	Dist 3dB
Detection			[mm]
Scan Method	Measured	Measured	

	Area Scan	Zoom Scan
Date	2025-06-10	2025-06-10
psSAR1g [W/kg]	0.345	0.366
psSAR10g [W/kg]	0.119	0.120
Power Drift [dB]	0.06	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		65.1
Dist 3dB Peak		7.6
[mm]		







## **WLAN5G MIMO Body**

## **Exposure Conditions**

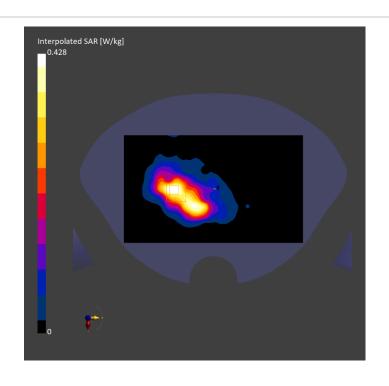
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	ВАСК,	WLAN	1:1	Number 5765.000,	4.59	5.102	36.228

#### **Hardware Setup**

Phantom TSL, Mea		TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
	Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
	tilt) - 2114				

## **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-13	2025-06-13
[mm]			psSAR1g [W/kg]	0.323	0.345
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	0.128	0.134
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.09	-0.18
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA	Υ	Υ	M2/M1 [%]		63.2
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.1
Detection			[mm]		
Scan Method	Measured	Measured			







## WLAN 6E ANT6 Head

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	TILT,	U-NII-8	1:1	6995.000,	5.21	6.482	34.909

#### **Hardware Setup**

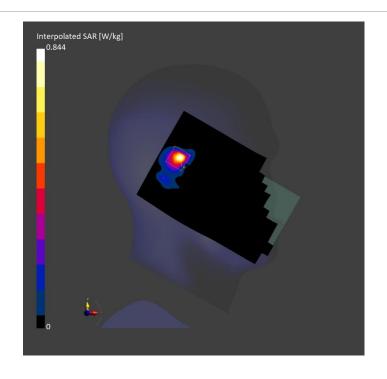
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7464, 2025-01-28	DAE4ip Sn1832, 2024-12-31

tilt) - 2114

#### **Scan Setup**

	=			
		Area Scan	Zoom Scan	
Grid	Extents	119.0 x 204.0	22.0 x 22.0 x 22.0	Date
[mm]				psSAR1g [W/kg]
Grid Ste	eps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	psSAR10g [W/kg]
Sensor	Surface	3.0	1.4	Power Drift [dB]
[mm]				Power Scaling
Graded	Grid	N/A	Yes	Scaling Factor [dB]
Grading	Ratio	N/A	1.4	TSL Correction
MAIA		Υ	Υ	M2/M1 [%]
Surface		VMS + 6p	VMS + 6p	Dist 3dB Peak
Detection	on			[mm]
Scan M	ethod	Measured	Measured	

	Area Scan	Zoom Scan
Date	2025-06-15	2025-06-15
psSAR1g [W/kg]	0.569	0.548
psSAR10g [W/kg]	0.166	0.161
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		51.1
Dist 3dB Peak		5.5
[mm]		







## **WLAN 6E ANT6 Body**

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	U-NII-5	1:1	5955.000,	5.21	5.237	36.538
HSL							

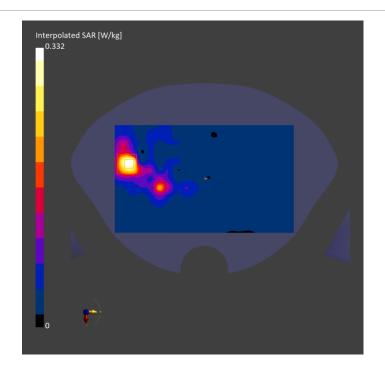
## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7464, 2025-01-28	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Scan Setup**

		Area Scan	Zoom Scan
Grid	Extents	120.0 x 200.0	22.0 x 22.0 x 22.0
[mm]			
Grid Ste	eps [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	g Ratio	N/A	1.4
MAIA		Υ	Υ
Surface		All points	All points
Detecti	on		
Scan M	ethod	Measured	Measured

	Area Scan	Zoom Scan
Date	2025-06-15	2025-06-15
psSAR1g [W/kg]	0.251	0.310
psSAR10g [W/kg]	0.091	0.124
Power Drift [dB]	0.04	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		57.5
Dist 3dB Peak		6.5
[mm]		







## **WLAN 6E ANT9 Head**

## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
LeftHead,	TILT,	U-NII-5	1:1	6015.000,	5.21	5.303	36.463
Lertificad,	IILI,	O IVII 3	1.1	0013.000,	3.21	5.505	30.403

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7464, 2025-01-28	DAE4ip Sn1832, 2024-12-31
tilt) - 2114			

#### **Scan Setup**

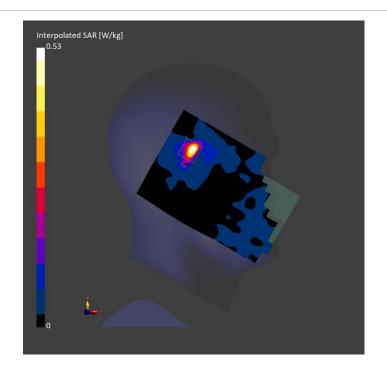
Scan Method

		Area Scan	Zoom Scan
Grid	Extents	119.0 x 204.0	22.0 x 22.0 x 22.0
[mm]			
Grid Ste	eps [mm]	8.5 x 8.5	3.4 x 3.4 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		VMS + 6p	VMS + 6p
Detection	on		

Measured

## **Measurement Results**

	Area Scan	Zoom Scan
Date	2025-06-15	2025-06-15
psSAR1g [W/kg]	0.339	0.345
psSAR10g [W/kg]	0.097	0.091
Power Drift [dB]	-0.02	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.5
Dist 3dB Peak		5.4
[mm]		



Measured





## **WLAN 6E ANT9 Body**

## **Exposure Conditions**

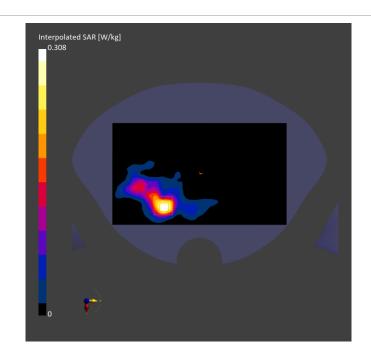
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	U-NII-5	1:1	6015.000,	5.21	5.303	36.463

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE4ip Sn1832, 2024-12-31		
Twin-SAM V8.0 (30deg probe	HBBL-600-10000	EX3DV4 - SN7464, 2025-01-28	DAE4ip Sn1832, 2024-12-31		
tilt) - 2114					

## Scan Setup

		Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid	Extents	119.0 x 204.0	22.0 x 22.0 x 22.0	Date	2025-06-15	2025-06-15
[mm]				psSAR1g [W/kg]	0.228	0.247
Grid Ste	eps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	psSAR10g [W/kg]	0.080	0.085
Sensor	Surface	3.0	1.4	Power Drift [dB]	-0.08	0.09
[mm]				Power Scaling	Disabled	Disabled
Graded	Grid	N/A	Yes	Scaling Factor [dB]		
Grading	g Ratio	N/A	1.4	TSL Correction	No correction	No correction
MAIA		Υ	Υ	M2/M1 [%]		57.3
Surface	!	All points	All points	Dist 3dB Peak		7.4
Detection	on			[mm]		
Scan M	ethod	Measured	Measured			







## **WLAN 6E ANT6 PD**

Measurement Report for Device, FRONT, U-NII-7, IEEE 802.11 a/h WiFi 5 GHz (OFDM, 6 Mbps), Channel 185 (6875.0 MHz)

#### Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI DUT Type	
Device,	175.0 x 82.0 x 8.0	Phone	

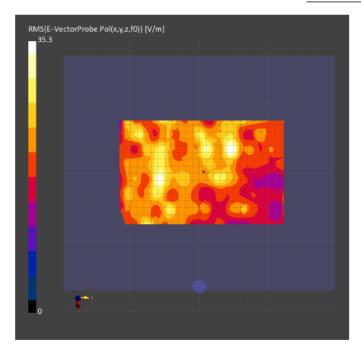
#### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	U-NII-7	WLAN, 10062-CAE	6875.0, 185	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV4 - SN9640_F1-55GHz, 2025-01-10	DAE4 Sn549, 2024-10-30

Scans Setup					
Scan Type	5G Scan				
Grid Extents [mm]	25.0 x 25.0				
Grid Steps [lambda]	0.04681083399601498 x 0.04681083399601498				
Sensor Surface [mm]	2.0				
MAIA	Υ				

Measurement Results			
Scan Type	5G Scan		
Date	2025-06-13		
Avg. Area [cm <sup>2</sup> ]	4.00		
psPDn+ [W/m <sup>2</sup> ]	0.082		
psPDtot+ [W/m <sup>2</sup> ]	0.174		
psPDmod+ [W/m²]	0.235		
E <sub>max</sub> [V/m]	12.7		
Power Drift [dB]	0.03		





## **WLAN 6E ANT9 PD**

Measurement Report for Device, FRONT, U-NII-6, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps), Channel 105 (6475.0 MHz)

#### **Device Under Test Properties**

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	175.0 x 82.0 x 8.0		Phone

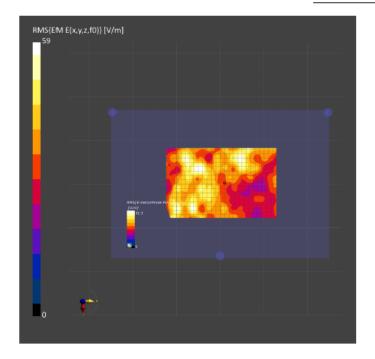
#### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	U-NII-6	WLAN, 10062-CAE	6475.0, 105	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV4 - SN9640_F1-55GHz, 2025-01-10	DAE4 Sn549, 2024-10-30

cans Setup					
Scan Type	5G Scan				
Grid Extents [mm]	25.0 x 25.0				
Grid Steps [lambda]	0.04408729456351956 x 0.04408729456351956				
Sensor Surface [mm]	2.0				
MAIA	Υ				

Measurement Results			
5G Scan			
2025-06-13			
4.00			
0.915			
2.09			
4.55			
59.0			
-0.01			







DUT Type

## **WLAN 6E MIMO PD**

Model, Manufacturer

Measurement Report for Device, FRONT, U-NII-6, IEEE 802.11 a/h WiFi 5 GHz (OFDM, 6 Mbps), Channel 105 (6475.0 MHz)

Dimensions [mm]

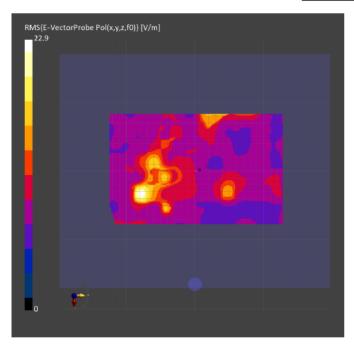
Device	Under	Test F	Properties

Device,			82.0 x 8.0	Phone	
Exposure Condit	ions				
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	U-NII-6	WLAN, 10062-CAE	6475.0, 105	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV4 - SN9640_F1-55GHz, 2025-01-10	DAE4 Sn549, 2024-10-30

Scans Setup	
Scan Type	5G Scan
Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.04408729456351956 x 0.04408729456351956
Sensor Surface [mm]	2.0
MAIA	Υ

Measurement Results	
Scan Type	5G Scan
Date	2025-06-13
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	0.061
psPDtot+ [W/m <sup>2</sup> ]	0.167
psPDmod+ [W/m²]	0.304
E <sub>max</sub> [V/m]	18.3
Power Drift [dB]	0.05







# **ANNEX B** System Verification Results

## 750MHz

## **Exposure Conditions**

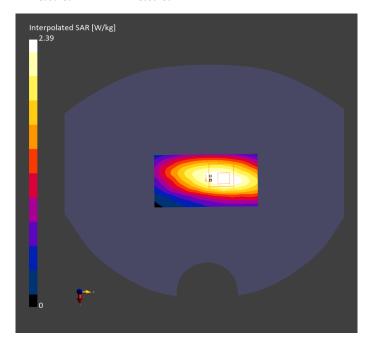
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	EDGE TOP,	D750	CW,	Number 750.000,	9.34	0.874	41.53

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

Scan Scrap			Wicasarcinicite Nesai		
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	48.0 x 90.0	30.0 x 30.0 x 30.0	Date	2025-05-25	2025-05-25
[mm]			psSAR1g [W/kg]	2.16	2.18
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	1.48	1.42
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.02	0.04
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		83.1
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		18.0
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

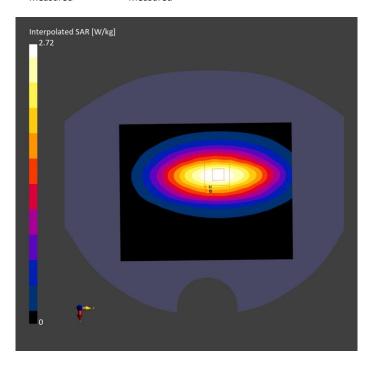
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	D835	CW,	835.000,	9.34	0.893	40.856

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
probe tilt) - 2114				

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 150.0	30.0 x 30.0 x 30.0	Date	2025-05-13	2025-05-13
[mm]			psSAR1g [W/kg]	2.21	2.29
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	1.41	1.47
Sensor Surface	3.0	1.4	Power Drift [dB]	0.14	-0.05
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		84.1
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		19.7
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

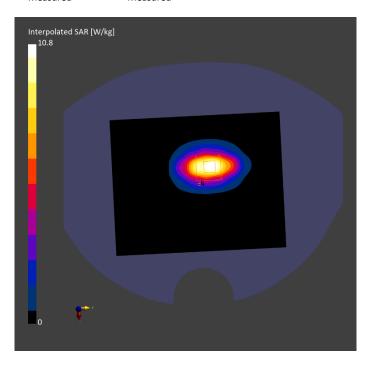
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D1800	CW,	1800.000,	7.79	1.357	40.48
	27.10.1.)		- /	•			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 150.0	30.0 x 30.0 x 30.0	Date	2025-05-16	2025-05-16
[mm]			psSAR1g [W/kg]	9.32	9.41
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	4.86	4.97
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.06	0.03
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		80.8
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.6
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

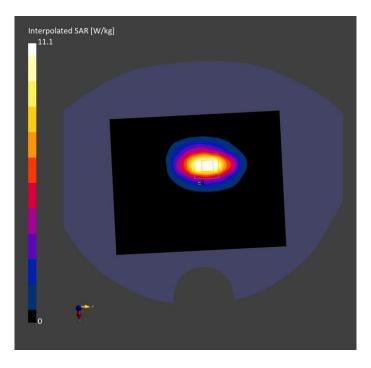
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D1800	CW,	1800.000,	7.79	1.387	40.467
HSL	5.00		0	50			

## **Hardware Setup**

Phantom	Phantom TSL, Measured Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31	
probe tilt) - 2114				

#### **Scan Setup**

Jean Jetup			Wiedsurement Nesuit	3	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 150.0	30.0 x 30.0 x 30.0	Date	2025-05-18	2025-05-18
[mm]			psSAR1g [W/kg]	9.38	9.49
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	4.89	5.02
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.08	0.03
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		81.2
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		8.8
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

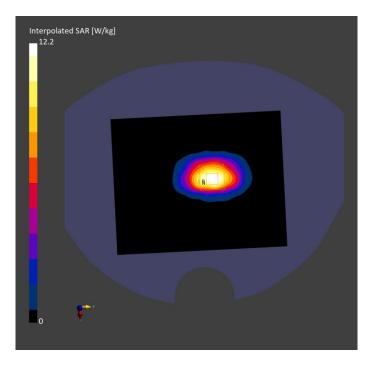
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D1900	CW,	1900.000,	7.48	1.37	39.145

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 150.0	30.0 x 30.0 x 30.0	Date	2025-05-21	2025-05-21
[mm]			psSAR1g [W/kg]	9.66	9.65
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	5.04	5.08
Sensor Surface	3.0	1.4	Power Drift [dB]	0.03	-0.07
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		81.0
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.2
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

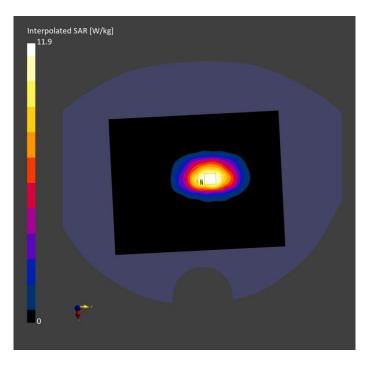
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	D1900	CW,	1900.000,	7.48	1.39	38.97

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 150.0	30.0 x 30.0 x 30.0	Date	2025-05-23	2025-05-23
[mm]			psSAR1g [W/kg]	9.62	9.67
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR10g [W/kg]	5.08	5.11
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.05	0.12
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		81.1
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		9.2
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

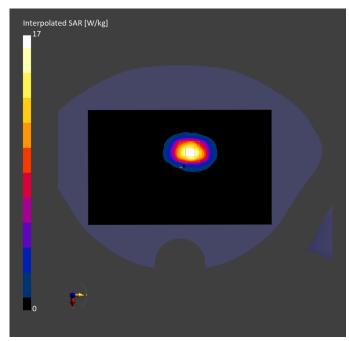
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	D2300	CW,	2300.000,	7.37	1.654	39.547
HSL	5.00		0	50			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 192.0	30.0 x 30.0 x 30.0	Date	2025-05-27	2025-05-27
[mm]			psSAR1g [W/kg]	12.15	12.34
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	5.84	5.98
Sensor Surface	3.0	1.4	Power Drift [dB]	0.11	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
Grading Ratio	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		79.4
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.0
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
				Number			
Flat,	васк,	D2450	CW,	2450.000 <i>,</i>	7.12	1.757	39.746

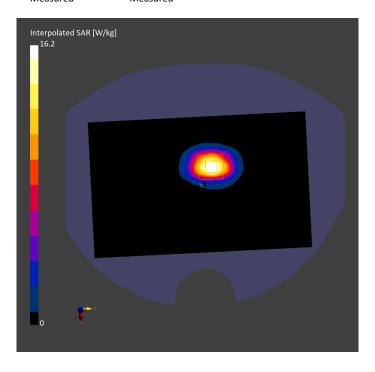
## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

Measur	ement	Results
--------	-------	---------

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 192.0	30.0 x 30.0 x 30.0	Date	2025-06-03	2025-06-03
[mm]			psSAR1g [W/kg]	13.17	13.22
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	6.20	6.22
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.3	0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		79.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9.0
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

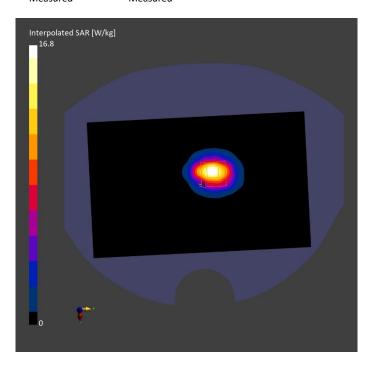
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	D2600	CW,	Number 2600.000,	6.95	1.921	39.73

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

				~	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 192.0	30.0 x 30.0 x 30.0	Date	2025-05-30	2025-05-30
[mm]			psSAR1g [W/kg]	13.48	13.52
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	6.07	6.10
Sensor Surface	3.0	1.4	Power Drift [dB]	0.08	0.05
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		78.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		9.0
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

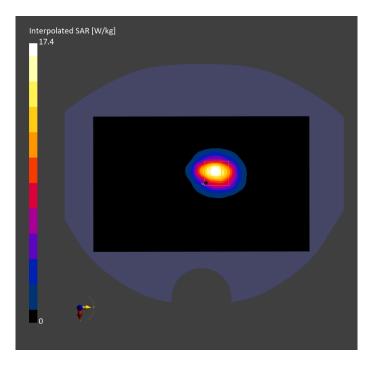
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D2600	CW,	2600.000,	6.95	1.969	39.235

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

-					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 192.0	30.0 x 30.0 x 30.0	Date	2025-06-01	2025-06-01
[mm]			psSAR1g [W/kg]	13.53	13.57
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5	psSAR10g [W/kg]	6.11	6.13
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.02	0.05
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.5	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		78.6
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		9.0
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

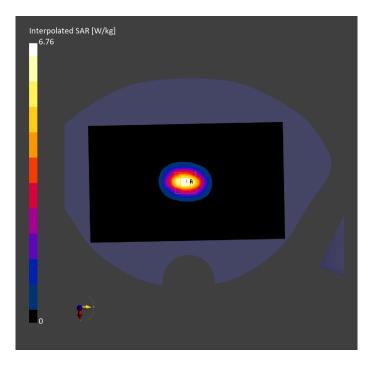
Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D3500	CW,	3500.000,	6.4	2.93	37.34
HSL	5.00		0	50			

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-06	2025-06-06
[mm]			psSAR1g [W/kg]	6.54	6.67
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	2.45	2.51
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.04	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		57
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		4
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

Phantom	Position, Test	Band	<b>Duty Cycle</b>	Frequency	Conversion	TSL	TSL
Section, TSL	Distance			[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	D3700	CW,	3700.000,	6.03	3.145	37.365

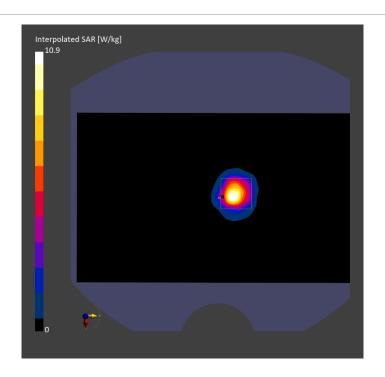
## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

Λ	/lea	sur	em	ent	Re	sul	ts

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-07	2025-06-07
[mm]			psSAR1g [W/kg]	6.61	6.74
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	2.37	2.44
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.05	0.09
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		70
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak		9
Detection			[mm]		
Scan Method	Measured	Measured			







## **Exposure Conditions**

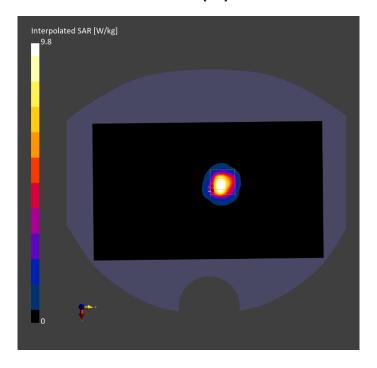
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	васк,	D5GHz	CW,	Number 5250.000,	5.03	4.78	36.747

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-10	2025-06-10
[mm]			psSAR1g [W/kg]	7.69	7.74
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	2.18	2.21
Sensor Surface	3.0	1.4	Power Drift [dB]	0.07	0.04
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor		
<b>Grading Ratio</b>	N/A	1.4	[dB]		
MAIA	N/A	N/A	TSL Correction	No correction	No correction
Surface	VMS + 6p	VMS + 6p	M2/M1 [%]		65.3
Detection			Dist 3dB Peak		6.5
Scan Method	Measured	Measured	[mm]		







## **Exposure Conditions**

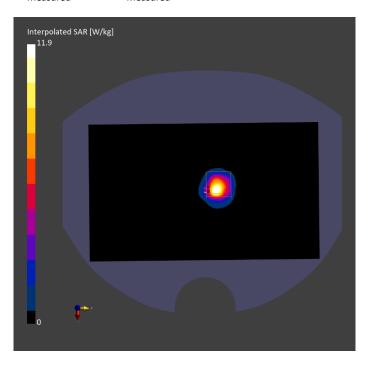
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D5GHz	CW,	5600.000,	4.42	4.946	36.421

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-11	2025-06-11
[mm]			psSAR1g [W/kg]	8.18	8.23
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	2.29	2.33
Sensor Surface	3.0	1.4	Power Drift [dB]	0.01	-0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		62.3
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		6.5
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

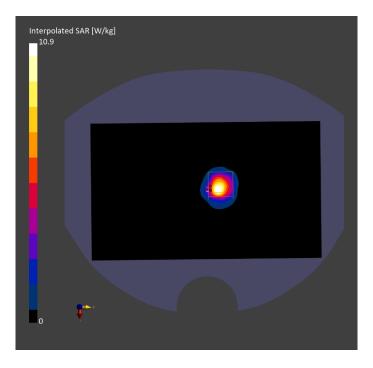
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
				Number			
Flat,	васк,	D5GHz	CW,	5750.000 <i>,</i>	4.59	5.08	36.25

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 - SN7825, 2024-11-11	DAE4ip Sn1832, 2024-12-31
probe tilt) - 2114			

#### **Scan Setup**

Scall Setup			wieasurement nesuit	3	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-12	2025-06-12
[mm]			psSAR1g [W/kg]	7.96	8.09
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	2.24	2.31
Sensor Surface	3.0	1.4	Power Drift [dB]	-0.03	0.02
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		61.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		6.6
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

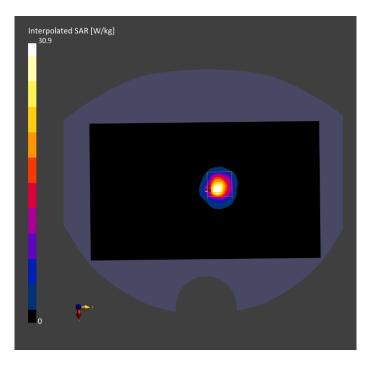
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
				Nullibei			
Flat,	BACK,	D6GHz	CW,	6500	5.21	5.914	35.543

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 – SN7464, 2025-01-28	DAE4ip Sn1834, 2024-11-25
probe tilt) - 2114			

#### **Scan Setup**

-					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-15	2025-06-15
[mm]			psSAR1g [W/kg]	28.91	29.3
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	5.31	5.35
Sensor Surface	3.0	1.4	Power Drift [dB]	0.09	0.06
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		61.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		6.6
Detection					
Scan Method	Measured	Measured			







## **Exposure Conditions**

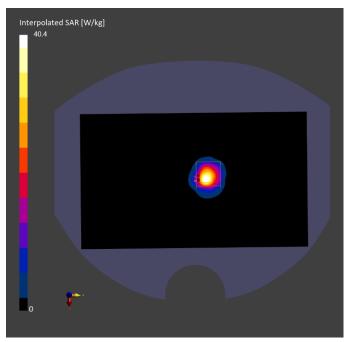
Phantom	Position, Test	Band	Group,	Frequency	Conversion	TSL	TSL
Section, TSL	Distance		UID	[MHz],	Factor	Conductivity	Permittivity
	[mm]			Channel		[S/m]	
				Number			
Flat,	BACK,	D6GHz	CW,	6500	5.21	5.94	35.483

## **Hardware Setup**

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg	HBBL-600-10000	EX3DV4 – SN7464, 2025-01-28	DAE4ip Sn1834, 2024-11-25
probe tilt) - 2114			

#### **Scan Setup**

•					
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	120.0 x 200.0	22.0 x 22.0 x 22.0	Date	2025-06-18	2025-06-18
[mm]			psSAR1g [W/kg]	28.88	29.1
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR10g [W/kg]	5.29	5.31
Sensor Surface	3.0	1.4	Power Drift [dB]	0.12	-0.08
[mm]			Power Scaling	Disabled	Disabled
Graded Grid	N/A	Yes	Scaling Factor [dB]		
<b>Grading Ratio</b>	N/A	1.4	TSL Correction	No correction	No correction
MAIA	N/A	N/A	M2/M1 [%]		61.5
Surface	VMS + 6p	VMS + 6p	Dist 3dB Peak [mm]		6.6
Detection					
Scan Method	Measured	Measured			





mmWave - xxxx



## 10GHz

Measurement Report for Device, FRONT, Validation band, CW, Channel 10000 (10000.0 MHz)

#### Device Under Test Properties

Model, Manufacture	r		Dimensions [mm]		IMEI	DUT Type
Device,			100.0 x 100.0 x 100.	0		Phone
Exposure Condit	ions					
Phantom Section	Position, Test Distar	nce [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00		Validation band	CW, 0	10000.0, 10000	1.0
Hardware Setup						
Phantom	Medium	Probe, Cali	bration Date		DAE, Calibratio	on Date

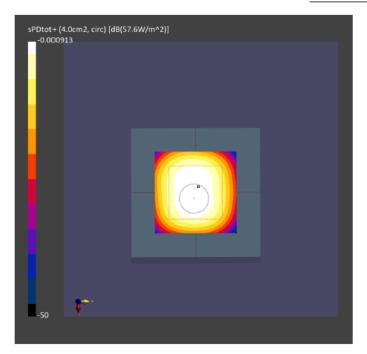
EUmmWV4 - SN9640\_F1-55GHz, 2025-01-10

Scans Setup	
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.06808848581238543 x 0.06808848581238543
Sensor Surface [mm]	2.0
MAIA	N/A

Air -

Measurement Results			
Scan Type	5G Scan		
Date	2025-06-13		
Avg. Area [cm <sup>2</sup> ]	4.00		
psPDn+ [W/m <sup>2</sup> ]	55.3		
psPDtot+ [W/m <sup>2</sup> ]	55.2		
psPDmod+ [W/m <sup>2</sup> ]	55.5		
E <sub>max</sub> [V/m]	157		
Power Drift [dB]	0.02		

DAE4 Sn549, 2024-10-30







## 10GHz

Measurement Report for Device, FRONT, Validation band, CW, Channel 10000 (10000.0 MHz)

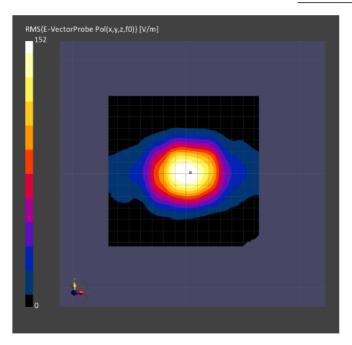
#### Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type
Device,		100.0 x 100.0 x 170.0			Phone
Exposure Condit	ions				
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	Validation band	CW, 0	10000.0, 10000	1.0

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV4 - SN9640_F1-55GHz, 2025-01-10	DAE4 Sn549, 2024-10-30

Scans Setup	
Scan Type	5G Scan
Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.06808848581238543 x 0.06808848581238543
Sensor Surface [mm]	2.0
MAIA	Υ

Measurement Results	
Scan Type	5G Scan
Date	2025-07-02
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	53.1
psPDtot+ [W/m <sup>2</sup> ]	53.4
psPDmod+ [W/m²]	53.7
E <sub>max</sub> [V/m]	148
Power Drift [dB]	-0.00



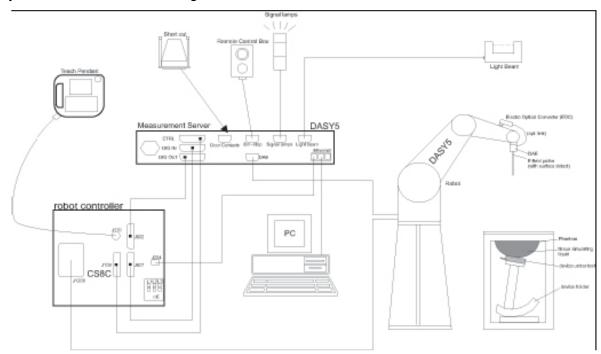




## ANNEX C SAR Measurement Setup

#### C.1 Measurement Set-up

The Dasy5 or DASY8 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 (Stäubli TX=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 Win10 and the DASY5 or DASY8 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 DASY5 or DASY8 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 DASY5 or DASY8 software reads the reflection during a software approach and looks for the maximum using 2<sup>nd</sup> curve fitting. The approach is stopped at reaching the maximum.

## **Probe Specifications:**

Model: EX3DV4

Frequency 10MHz — 6.0GHz(EX3DV4)

Range:

Calibration: In head and body simulating tissue at

Frequencies from 835 up to 5800MHz

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

Dynamic Range: 10 mW/kg — 100W/kg

Probe Length: 330 mm

**Probe Tip** 

Length: 20 mm
Body Diameter: 12 mm
Tip Diameter: 2.5 mm
Tip-Center: 1 mm

Application: SAR Dosimetry Testing

Compliance tests of mobile phones

Dosimetry in strong gradient fields



Picture C.2 Near-field Probe



Picture C.3 E-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 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/cm<sup>2</sup>.

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:

 $\Delta t$  = Exposure time (30 seconds),

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

 $\Delta T$  = Temperature increase due to RF exposure.

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

Where:

 $\sigma$  = Simulated tissue conductivity,

 $\rho$  = Tissue density (kg/m<sup>3</sup>).





## **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.



Picture C.4: DAE

#### C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY5: RX160L; DASY8: TX2-90XL spe) 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.5 DASY 5

Picture C.6 DASY 8

#### C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU broad with CPU (DASY5/DASY8: 400 MHz, Intel Celeron), chipdisk (DASY5/DASY8: 128MB), RAM (DASY5/DASY8: 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 5

Picture C.8 Server for DASY 8





#### 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  $\pm 0.5$ mm would produce a SAR uncertainty of  $\pm 20\%$ . 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  $\mathcal{S}=0.02$ . 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: Device Holder** 



Picture C.10: 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 90<sup>th</sup> 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.11 SAM Twin Phantom** 

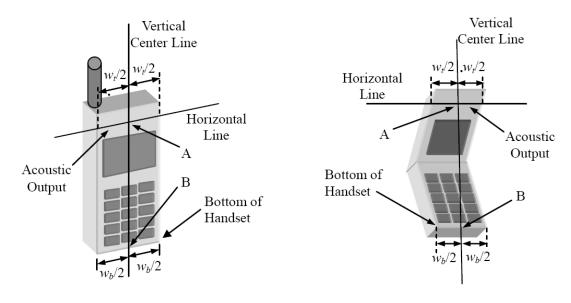




## ANNEX D Position of the wireless device in relation to the phantom

#### **D.1 General considerations**

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



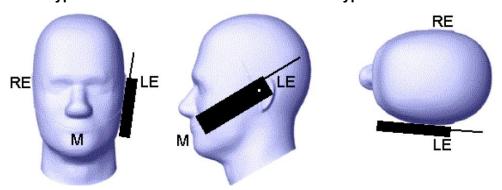
 $W_t$  Width of the handset at the level of the acoustic

 $W_b$  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

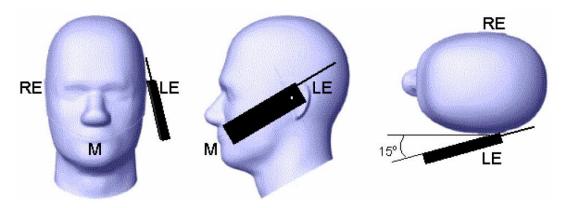
Picture D.1 Typical "fixed" case headset 
Picture D.2 Typical "clam-shell" case headset



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



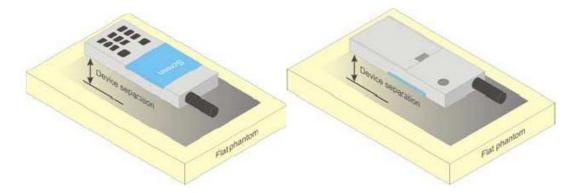




Picture D.4 Tilt position of the wireless device on the left side of SAM

## 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.5 Test positions for body-worn devices

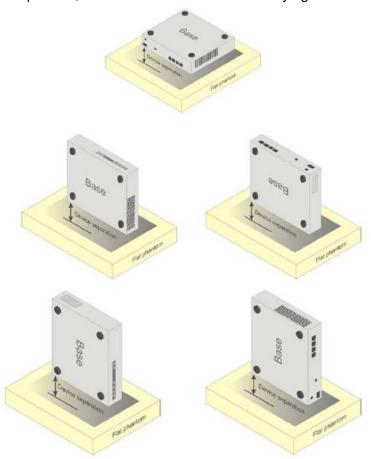




## D.3 Desktop device

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.

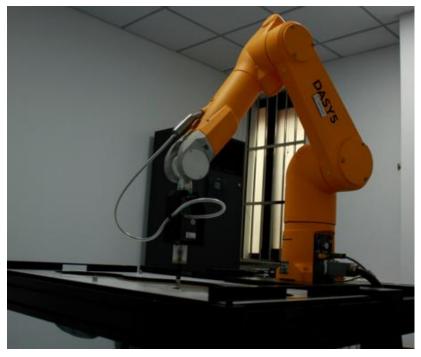


Picture D.6 Test positions for desktop devices





## **D.4 DUT Setup Photos**



Picture D.7





## **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 Std 1528 and BS EN IEC/IEEE 62209-1528:2021.

**TableE.1: Composition of the Tissue Equivalent Matter** 

Frequency	835Hea	835Bod	1900	1900	2450	2450	5800	5800	
(MHz)	d	у	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	,	,	44.452	29.96	41.15	27.22	\	\	
Monobutyl	\	\	44.452	29.90	41.13	21.22	\	١	
Diethylenglycol									
monohexylethe	\	\	\	\	\	\	17.24	17.24	
r									
Triton X-100	\	\	\	\	\	\	17.24	17.24	
Dielectric	ε=41.5	ε=55.2	ε=40.0	ε=53.3	ε=39.2	ε=52.7	ε=35.3	ε=48.2	
Parameters	$\sigma = 0.90$	σ=0.97	σ=1.4	σ=1.5	σ=1.8	σ=1.9	σ=5.2	σ=6.0	
Target Value	0-0.90	0-0.91	0	2	0	5	7	0	

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	September 18,2024	750 MHz	OK
7825	H650-7000M	September 18,2024	900 MHz	OK
7825	H650-7000M	September 18,2024	1450 MHz	OK
7825	H650-7000M	September 18,2024	1640 MHz	OK
7825	H650-7000M	September 19,2024	1750 MHz	OK
7825	H650-7000M	September 19,2024	1900 MHz	OK
7825	H650-7000M	September 19,2024	2000 MHz	OK
7825	H650-7000M	September 19,2024	2100 MHz	OK
7825	H650-7000M	September 21,2024	2300 MHz	OK
7825	H650-7000M	September 21,2024	2450 MHz	OK
7825	H650-7000M	September 21,2024	2600 MHz	OK
7825	H650-7000M	September 22,2024	3500 MHz	OK
7825	H650-7000M	September 22,2024	3700 MHz	OK
7825	H650-7000M	September 22,2024	3900 MHz	OK
7825	H650-7000M	September 23,2024	5250 MHz	OK
7825	H650-7000M	September 23,2024	5600 MHz	OK
7825	H650-7000M	September 23,2024	5800 MHz	OK





Table F.2: System Validation for 7464

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7464	Head 13MHz	February 26,2025	13MHz	OK
7464	Head 64MHz	February 26,2025	64MHz	OK
7464	Head 150MHz	February 26,2025	150MHz	OK
7464	Head 300MHz	February 26,2025	300MHz	OK
7464	Head 450MHz	February 26,2025	450MHz	OK
7464	Head 750MHz	February 26,2025	750MHz	OK
7464	Head 835MHz	February 26,2025	835MHz	OK
7464	Head 900MHz	February 26,2025	900MHz	OK
7464	Head 1450MHz	February 26,2025	1450MHz	OK
7464	Head 1640MHz	February 26,2025	1640MHz	OK
7464	Head 1750MHz	February 26,2025	1750MHz	OK
7464	Head 1810MHz	February 26,2025	1810MHz	OK
7464	Head 1900MHz	February 26,2025	1900MHz	OK
7464	Head 2000MHz	February 27,2025	2000MHz	OK
7464	Head 2100MHz	February 27,2025	2100MHz	OK
7464	Head 2300MHz	February 27,2025	2300MHz	OK
7464	Head 2450MHz	February 27,2025	2450MHz	OK
7464	Head 2600MHz	February 27,2025	2600MHz	OK
7464	Head 3300MHz	February 28,2025	3300MHz	OK
7464	Head 3500MHz	February 28,2025	3500MHz	OK
7464	Head 3700MHz	February 28,2025	3700MHz	OK
7464	Head 3900MHz	February 28,2025	3900MHz	OK
7464	Head 4100MHz	February 28,2025	4100MHz	OK
7464	Head 4200MHz	February 28,2025	4200MHz	OK
7464	Head 4400MHz	February 28,2025	4400MHz	OK
7464	Head 4600MHz	February 28,2025	4600MHz	OK
7464	Head 4800MHz	February 28,2025	4800MHz	OK
7464	Head 4950MHz	February 28,2025	4950MHz	OK
7464	Head 5200MHz	March 01,2025	5200MHz	OK
7464	Head 5250MHz	March 01,2025	5250MHz	OK
7464	Head 5300MHz	March 01,2025	5300MHz	OK
7464	Head 5500MHz	March 01,2025	5500MHz	OK
7464	Head 5600MHz	March 01,2025	5600MHz	OK
7464	Head 5750MHz	March 01,2025	5750MHz	OK
7464	Head 5800MHz	March 01,2025	5800MHz	OK
7464	Head 6500MHz	March 02,2025	6500MHz	OK
7464	Head 7000MHz	March 02,2025	7000MHz	OK





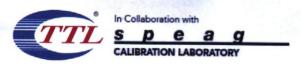
## **ANNEX G** Probe Calibration Certificate

#### **Probe 7825 Calibration Certificate**











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Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty\_cycle) of the RF signal modulation dependent linearization parameters

Polarization Φ rotation around probe axis

Polarization  $\theta$   $\theta$  rotation around an axis that is in the plane normal to probe axis (at measurement center), i

 $\theta$ =0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide).
   NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z\* frequency\_response (see Frequency Response Chart). This
  linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
  frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z;VRx,y,z:A,B,C are numerical linearization parameters assessed based on the
  data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
  media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z\* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the
  probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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## DASY/EASY - Parameters of Probe: EX3DV4 - SN: 7825

## **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(µV/(V/m)²)^	0.68	0.67	0.68	±10.0%
DCP(mV) <sup>B</sup>	108.2	109.5	112.3	

Calibration Results for Modulation Response

UID	Communication System Name		dB	B dBõV	С	dB	WR mV	Max Dev.	Max Unc <sup>E</sup> ( <i>k</i> =2)
0	cw	X	0.0	0.0	1.0	0.00	216.7	±2.2%	±4.7%
		Y	0.0	0.0	1.0		216.0		
		Z	0.0	0.0	1.0		220.9		
10352-AAA	Pulse Waveform (200Hz, 10%)	Х	1.67	61.09	6.17		60	±3.2%	±9.6%
		Y	1.63	61.05	6.18	10.00	60		
		Z	1.79	61.93	6.98	-	60		
10353-AAA	Pulse Waveform (200Hz, 20%)	Х	0.92	60.00	4.00		80	±2.5%	±9.6%
	Constitution of the Consti	Y	0.91	60.00	4.25	6.99	80		
		Z	0.85	60.00	4.97		80		
10354-AAA	Pulse Waveform (200Hz, 40%)	Х	0.00	140.90	0.09		95	±2.0%	±9.6%
		Y	0.23	155.47	3.75	3.98	95		
		Z	8.00	70.00	7.00	1	95		
10355-AAA	Pulse Waveform (200Hz, 60%)	X	0.00	147.00	75.65		120	±1.6%	±9.6%
		Y	0.00	152.28	59.73	2.22	120	1	
		Z	15.16	137.45	2.02		120		
10387-AAA	QPSK Waveform, 1 MHz	X	2.57	92.28	24.65		150	±3.3%	±9.6%
		Y	1.00	73.96	17.36	1.00	150	]	
		Z	0.44	60.00	9.13		150		
10388-AAA	QPSK Waveform, 10 MHz	X	2.06	74.68	18.11		150	±1.3%	±9.6%
		Y	1.75	70.80	16.57	0.00	150	1	
		Z	1.17	63.55	11.73		150	1	
10396-AAA	64-QAM Waveform, 100 kHz	X	1.83	67.65	18.89		150	±0.9%	±9.6%
		Y	1.87	67.47	18.46	3.01	150		
		Z	1.74	64.25	15.56		150		
10414-AAA	WLAN CCDF, 64-QAM, 40MHz	X	3.96	67.76	16.34		150	±3.1%	±9.6%
		Y	4.04	67.20	16.07	0.00	150		
		Z	3.71	65.65	14.65		150	]	

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

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<sup>&</sup>lt;sup>A</sup> The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 5).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.









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DASY/EASY - Parameters of Probe: EX3DV4 - SN: 7825

#### **Sensor Model Parameters**

	C1	C2	α	T1	T2	Т3	T4	T5	T6
	fF	fF	V-1	ms.V-2	ms.V <sup>-1</sup>	ms	V-2	V-1	
X	8.70	60.92	34.01	0.92	0.00	4.90	0.23	0.00	1.01
Υ	10.49	73.19	33.70	2.89	0.00	4.90	0.36	0.00	1.01
Z	9.08	62.71	32.53	4.42	0.00	4.90	0.47	0.00	1.01

#### **Other Probe Parameters**

Sensor Arrangement	Triangular		
Connector Angle (°)	103.9		
Mechanical Surface Detection Mode	enabled		
Optical Surface Detection Mode	disable		
Probe Overall Length	337mm		
Probe Body Diameter	10mm		
Tip Length	9mm		
Tip Diameter	2.5mm		
Probe Tip to Sensor X Calibration Point	1mm		
Probe Tip to Sensor Y Calibration Point	1mm		
Probe Tip to Sensor Z Calibration Point	1mm		
Recommended Measurement Distance from Surface	1.4mm		

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