

Appendix B – System Check Plots

Test Date : 2025-03-07 | Ambient Temp : 22.1 °C | Tissue Temp : 21.1 °C

System Performance Check

System Performance Check at 2450 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D2450	1087	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	2450.000	6.64	1.7	38.7

Hardware Setup

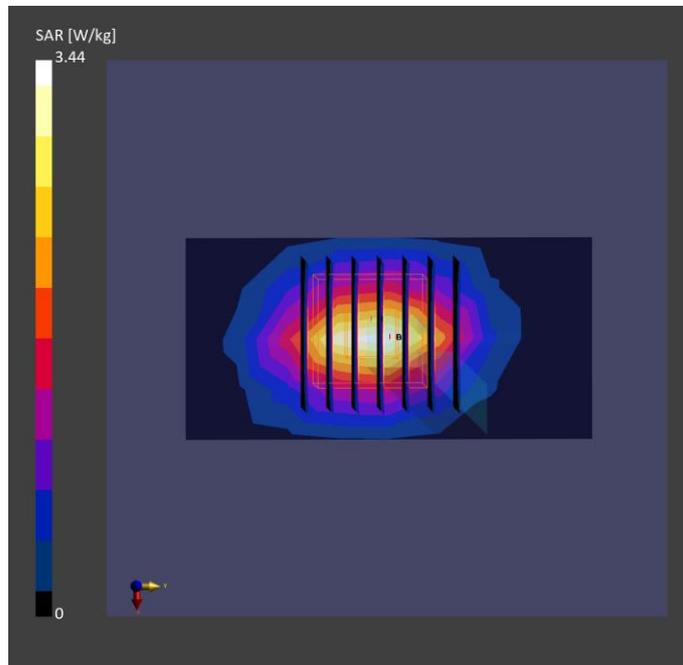
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	2.61	2.57
psSAR-10g [W/kg]	1.20	1.20
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only



Test Date : 2025-03-07 | Ambient Temp : 22.1 °C | Tissue Temp : 21.1 °C

System Performance Check

System Performance Check at 5250 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5250.000	5.05	4.76	36.7

Hardware Setup

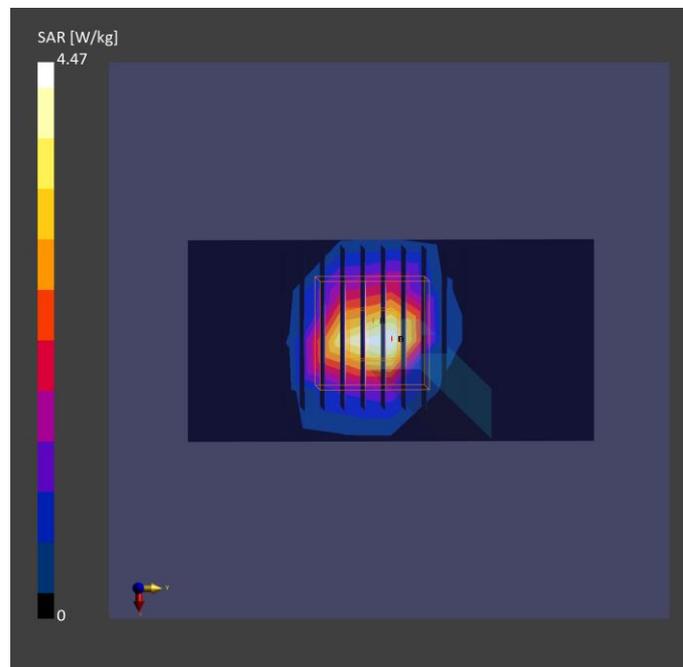
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.28	3.69
psSAR-10g [W/kg]	1.00	1.05
Power Drift [dB]		-0.04
TSL Correction	Positive only	Positive only



Test Date : 2025-03-08 | Ambient Temp : 22.0 °C | Tissue Temp : 21.3 °C

System Performance Check

System Performance Check at 5250 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5250.000	5.05	4.63	34.5

Hardware Setup

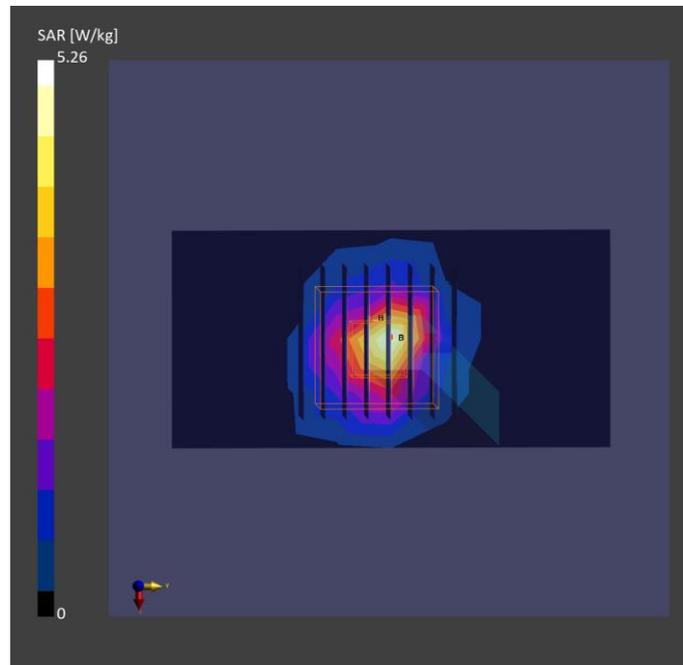
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.45	3.66
psSAR-10g [W/kg]	1.05	1.09
Power Drift [dB]		-0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-03-07 | Ambient Temp : 22.1 °C | Tissue Temp : 21.1 °C

System Performance Check

System Performance Check at 5600 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5600.000	4.56	5.21	34.6

Hardware Setup

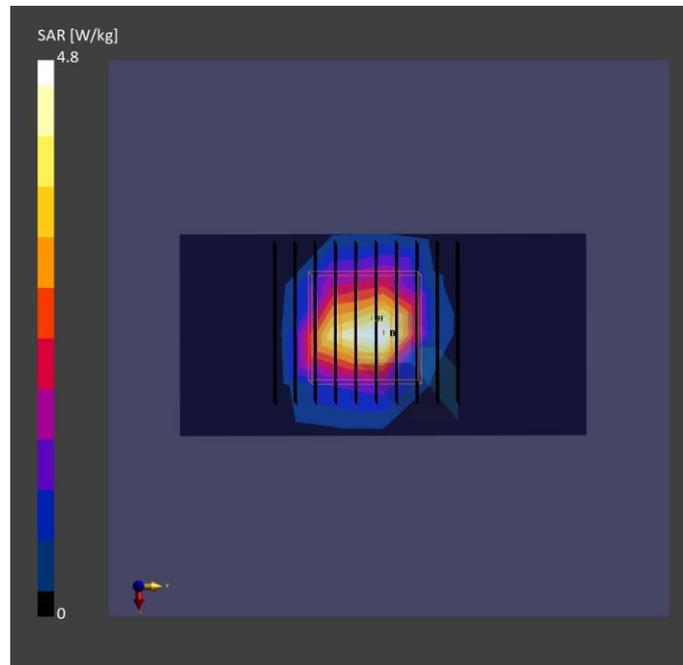
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.53	4.03
psSAR-10g [W/kg]	1.06	1.14
Power Drift [dB]		-0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-03-08 | Ambient Temp : 22.0 °C | Tissue Temp : 21.3 °C

System Performance Check

System Performance Check at 5600 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5600.000	4.56	5.11	33.9

Hardware Setup

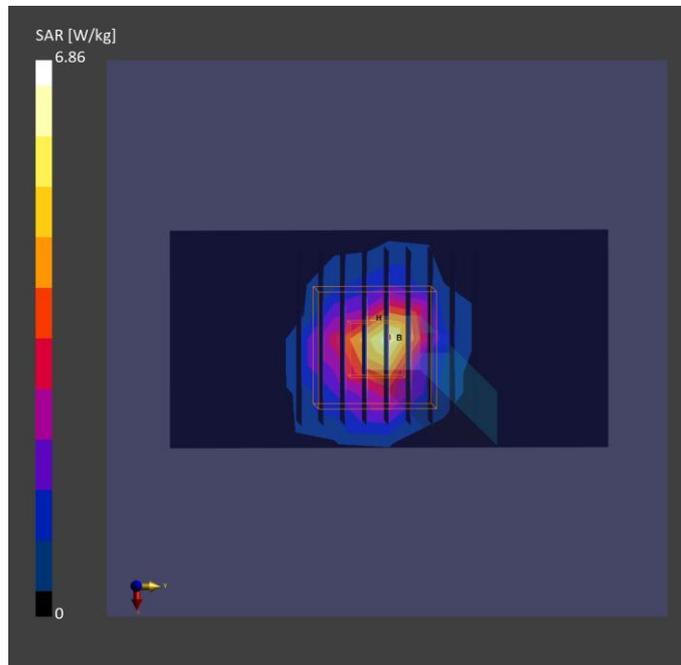
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	4.02	4.45
psSAR-10g [W/kg]	1.17	1.26
Power Drift [dB]		0.04
TSL Correction	Positive only	Positive only



Test Date : 2025-03-07 | Ambient Temp : 22.1 °C | Tissue Temp : 21.1 °C

System Performance Check

System Performance Check at 5800 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5800.000	4.51	5.13	36.9

Hardware Setup

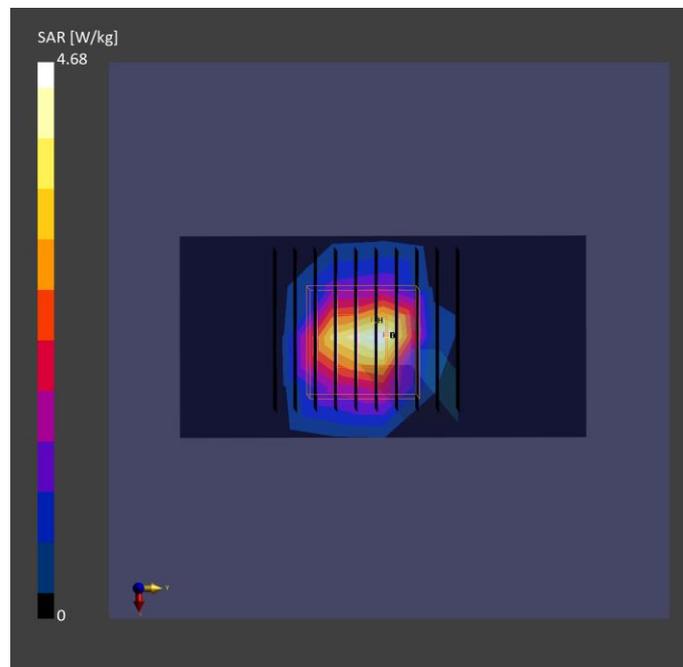
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.32	3.80
psSAR-10g [W/kg]	0.998	1.07
Power Drift [dB]		-0.05
TSL Correction	Positive only	Positive only



Test Date : 2025-03-08 | Ambient Temp : 22.0 °C | Tissue Temp : 21.3 °C

System Performance Check

System Performance Check at 5800 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D5GHzV2	1358	17.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	5800.000	4.51	5.09	35.0

Hardware Setup

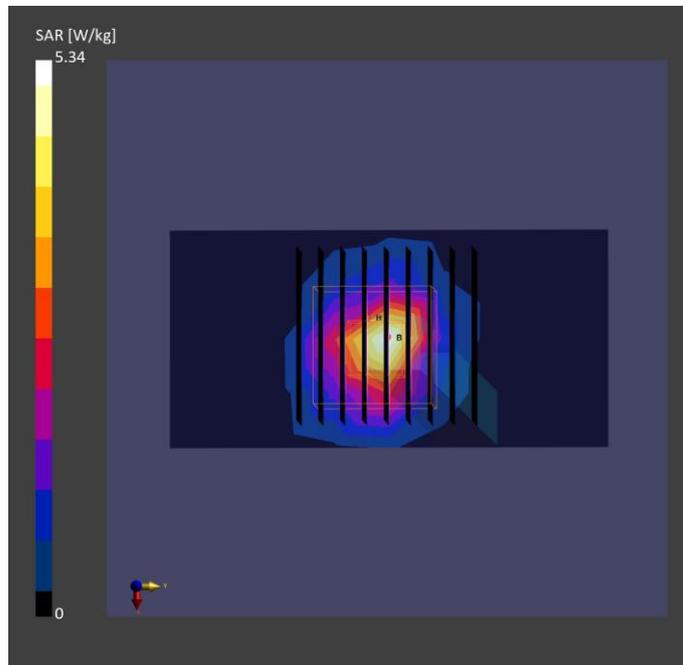
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	3.47	3.83
psSAR-10g [W/kg]	1.01	1.09
Power Drift [dB]		0.01
TSL Correction	Positive only	Positive only



Test Date : 2025-03-05 | Ambient Temp : 22.1 °C | Tissue Temp : 21.1 °C

System Performance Check

System Performance Check at 6500 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D6.5GHzV2	1081	20.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	6500.000	4.49	6.27	35.2

Hardware Setup

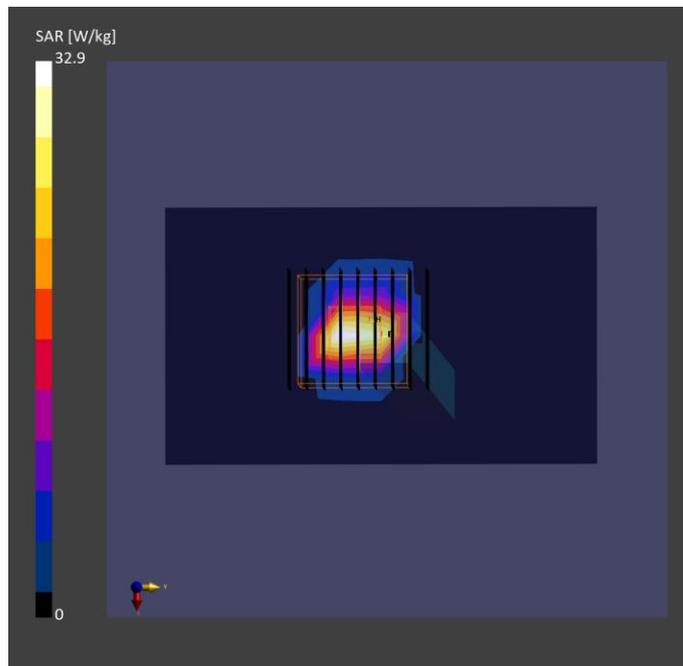
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	23.2	28.7
psSAR-8g [W/kg]	6.03	6.46
psSAR-10g [W/kg]	5.01	5.35
psAPD (1.0 cm ² , sq) [W/m ²]		287
psAPD (4.0 cm ² , sq) [W/m ²]		129
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only



Test Date : 2025-03-06 | Ambient Temp : 22.0 °C | Tissue Temp : 21.3 °C

System Performance Check

System Performance Check at 6500 MHz

Verification Source Properties

Manufacturer	Model No.	Serial No.	Input Power [dBm]
SPEAG	D6.5GHzV2	1081	20.0

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	CW	6500.000	4.49	5.59	32.0

Hardware Setup

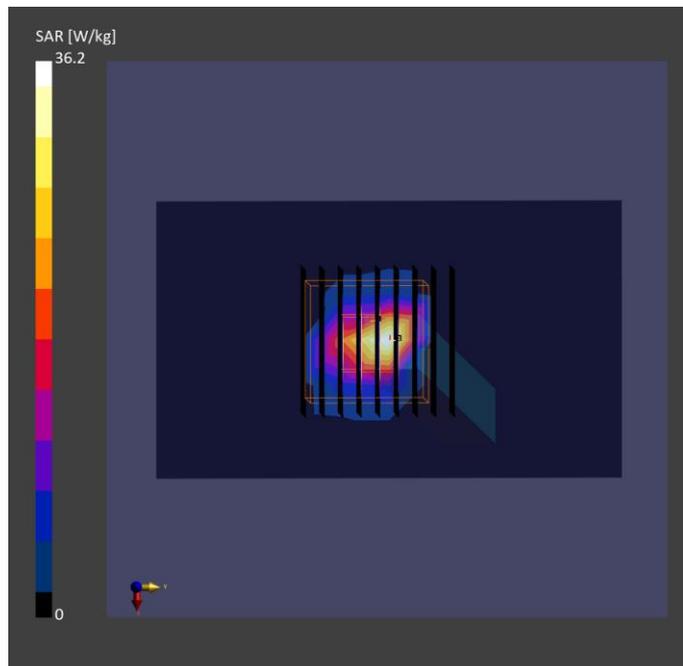
Phantom	Tissue Simulating Liquid	Probe Calibration Date	DAE Calibration Date
ELI V8.0 (20deg probe tilt) - 2176	HBBL-600-10000	EX3DV4 - SN7757 / 2024-09-18	DAE4 Sn1743 / 2024-09-19
Measurement Software Version		16.4.0.5005	

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR-1g [W/kg]	22.1	27.4
psSAR-8g [W/kg]	5.63	6.23
psSAR-10g [W/kg]	4.68	5.16
psAPD (1.0 cm ² , sq) [W/m ²]		274
psAPD (4.0 cm ² , sq) [W/m ²]		124
Power Drift [dB]		0.02
TSL Correction	Positive only	Positive only



Test Date : 2025-03-05 | Ambient Temp : 22.9 °C

System Performance Check

System Performance Check at 10GHz

Verification Source Properties

Manufacturer	Model No.	Serial No.
SPEAG	5G Verification Source 10GHz	1060

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor
5G	CW	10000.0	1.0

Hardware Setup

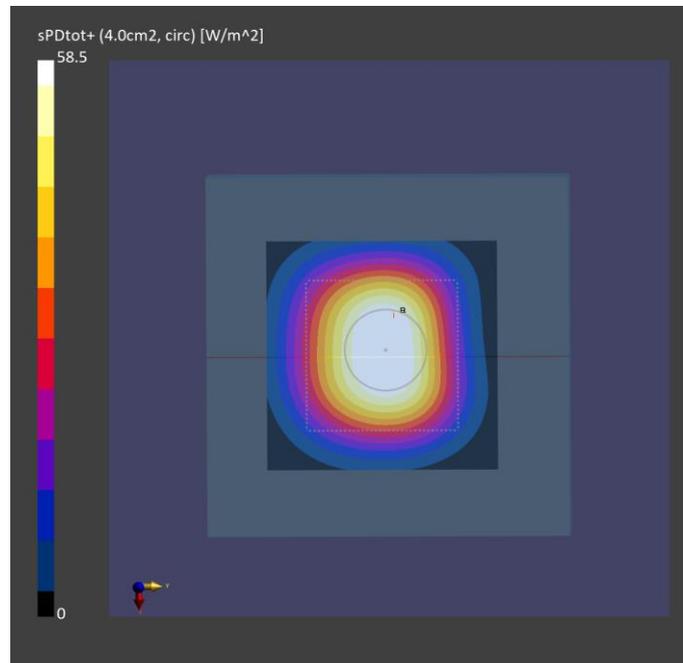
Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2024-09-16	DAE4 Sn1742 / 2024-08-15
Measurement Software Version		V3.2.0.1840	

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [mm]	0.125 x 0.125
Sensor Surface [mm]	10.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	58.2
psPD tot+ [W/m ²]	58.5
psPD mod+ [W/m ²]	58.9
E max [V/m]	163
Power Drift [dB]	-0.09



Test Date : 2025-03-06 | Ambient Temp : 22.4 °C

System Performance Check

System Performance Check at 10GHz

Verification Source Properties

Manufacturer	Model No.	Serial No.
SPEAG	5G Verification Source 10GHz	1060

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor
5G	CW	10000.0	1.0

Hardware Setup

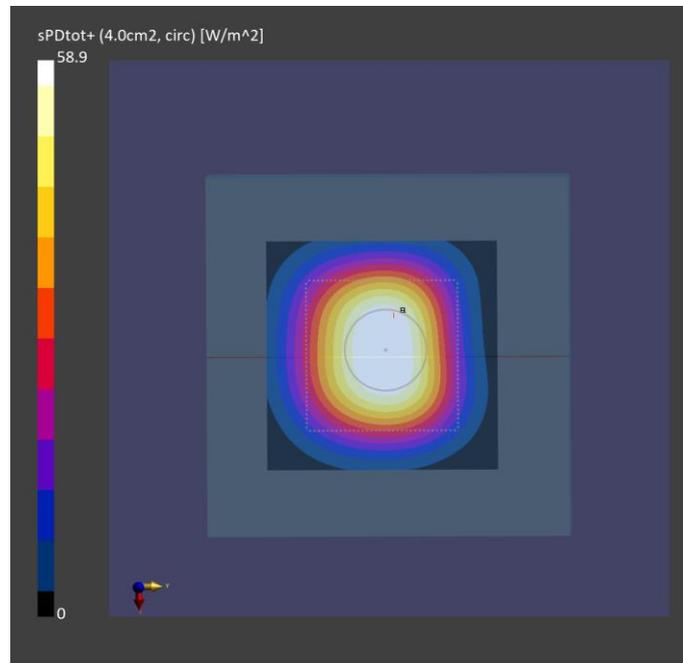
Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2024-09-16	DAE4 Sn1742 / 2024-08-15
Measurement Software Version		V3.2.0.1840	

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [mm]	0.125 x 0.125
Sensor Surface [mm]	10.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	58.6
psPD tot+ [W/m ²]	58.9
psPD mod+ [W/m ²]	59.2
E max [V/m]	163
Power Drift [dB]	-0.02



Test Date : 2025-03-07 | Ambient Temp : 22.2 °C

System Performance Check

System Performance Check at 10GHz

Verification Source Properties

Manufacturer	Model No.	Serial No.
SPEAG	5G Verification Source 10GHz	1060

Exposure Conditions

Phantom Section	Group	Frequency [MHz]	Conversion Factor
5G	CW	10000.0	1.0

Hardware Setup

Phantom	Medium	Probe Calibration Date	DAE Calibration Date
mmWave - 1102	Air	EUmmWV4 - SN9639_F1-55GHz / 2024-09-16	DAE4 Sn1742 / 2024-08-15
Measurement Software Version		V3.2.0.1840	

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [mm]	0.125 x 0.125
Sensor Surface [mm]	10.0

Measurement Results

	5G Scan
Avg. Area [cm ²]	4.00
psPD n+ [W/m ²]	58.3
psPD tot+ [W/m ²]	58.4
psPD mod+ [W/m ²]	58.7
E max [V/m]	163
Power Drift [dB]	-0.10

