

Appendix C: System Check Plots

RF SAFETY LABORATORY

System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D750V3 – SN1235	17.0	Flat	15	CW, 0	750.000	9.46, 9.07, 8.79

Test Setup

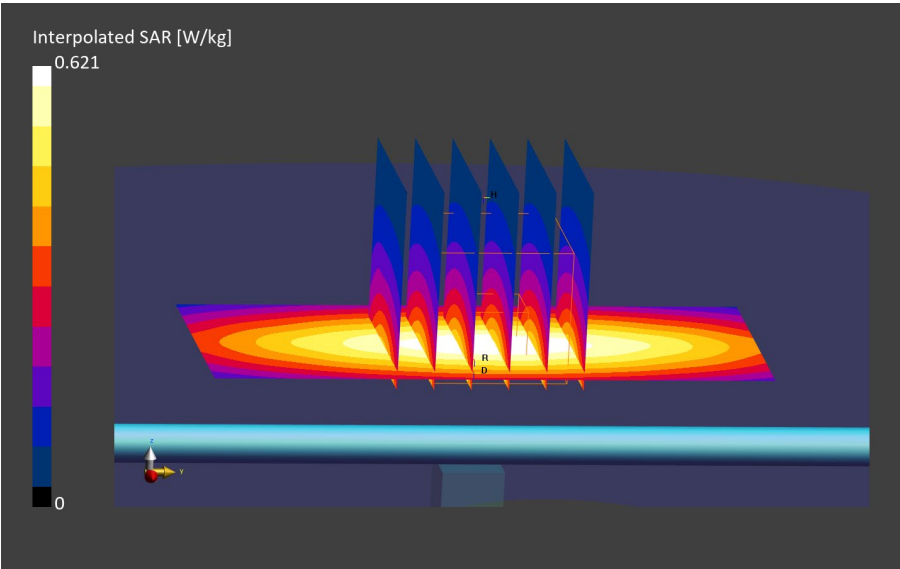
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-22	22.2	19.7	16.4.0.5005	Twin-SAM V8.0 – 2164	Head Simulating Liquid	0.88	43.3	EX3DV4 – SN7853, 2024-11-07	DAE4ip Sn1844, 2024-11-06

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	0.422	-3.11
psSAR10g	0.280	-1.81
Peak SAR (Extrapolated)	0.621	-1.66



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D750V3 – SN1235	17.0	Flat	15	CW, 0	750.000	9.46, 9.07,8.79

Test Setup

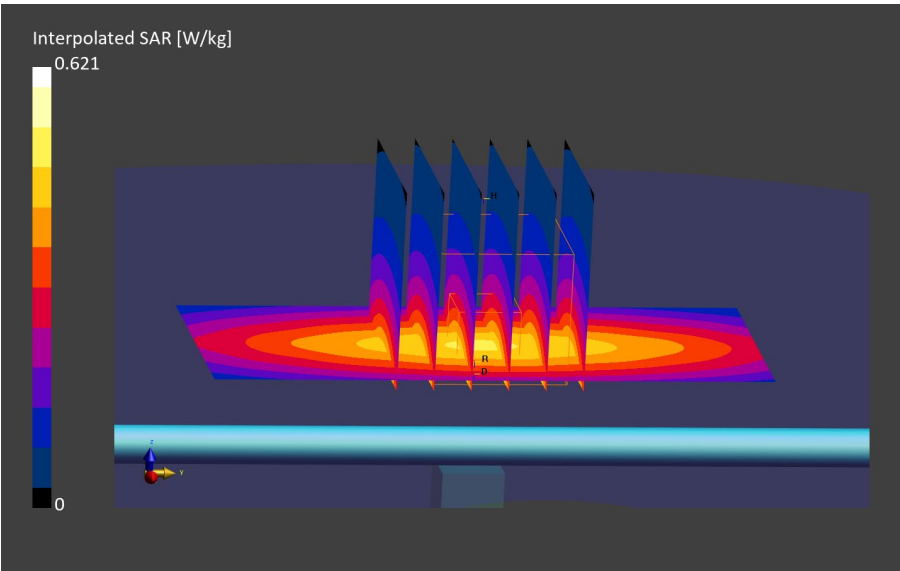
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-27	23.3	22.4	16.4.0.5005	Twin-SAM V8.0 – 2164	Head Simulating Liquid	0.90	42.3	EX3DV4 – SN7853, 2024-11-07	DAE4ip Sn1844, 2024-11-06

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	0.409	-6.09
psSAR10g	0.269	-5.67
Peak SAR (Extrapolated)	0.621	-1.66



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Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D835V2 – SN4d311	17.0	Flat	15	CW, 0	835.000	9.21, 8.83,8.55

Test Setup

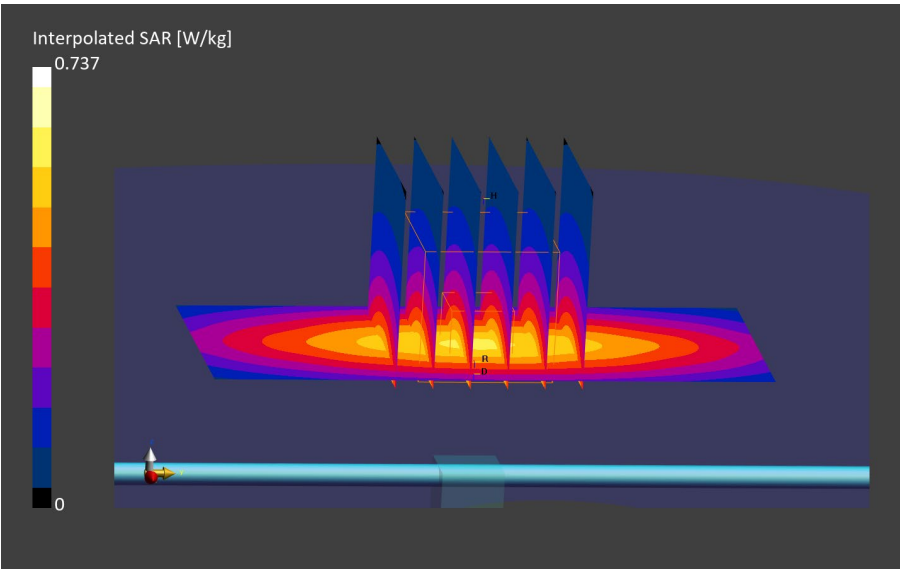
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-22	22.2	19.7	16.4.0.5005	Twin-SAM V8.0 – 2164	Head Simulating Liquid	0.91	43.1	EX3DV4 – SN7853, 2024-11-07	DAE4ip Sn1844, 2024-11-06

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	0.493	0.17
psSAR10g	0.324	1.49
Peak SAR (Extrapolated)	0.736	4.15



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D835V2 – SN4d311	17.0	Flat	15	CW, 0	835.000	9.21, 8.83, 8.55

Test Setup

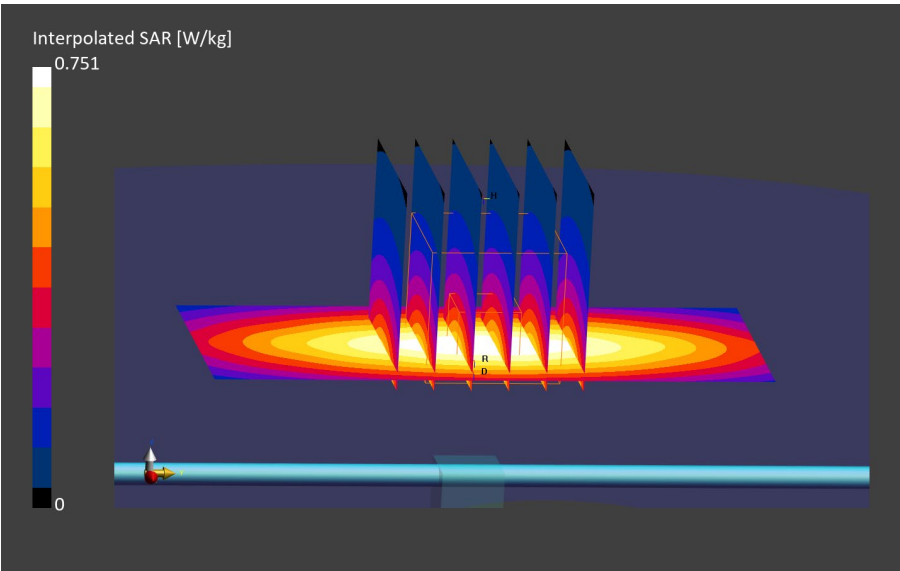
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-30	23.3	22.9	16.4.0.5005	Twin-SAM V8.0 – 2164	Head Simulating Liquid	0.93	40.2	EX3DV4 – SN7853, 2024-11-07	DAE4ip Sn1844, 2024-11-06

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	0.496	0.78
psSAR10g	0.325	1.8
Peak SAR (Extrapolated)	0.751	6.27



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D1750V2 – SN1205	17.0	Flat	10	CW, 0	1750.000	7.64, 7.47,8.01

Test Setup

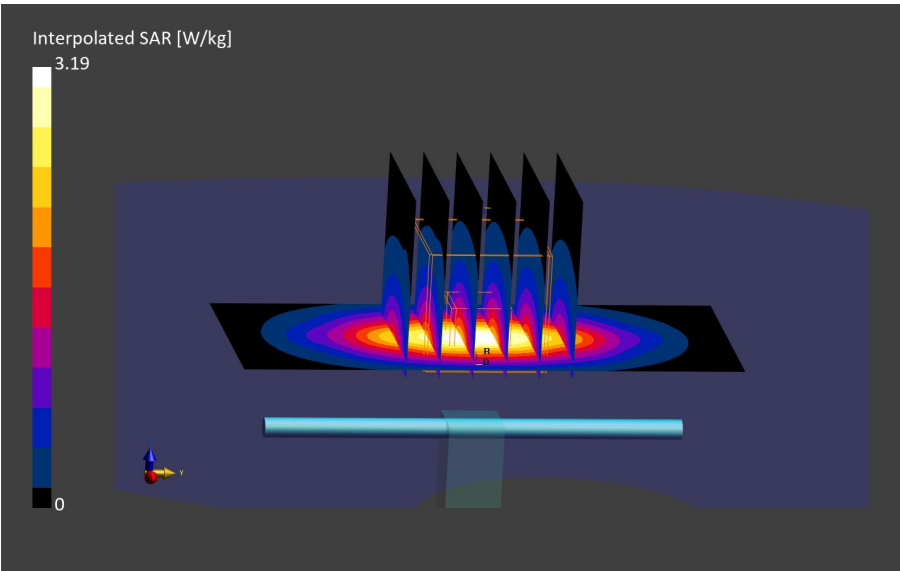
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-22	21.6	20.6	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	1.33	38.5	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	1.84	0.58
psSAR10g	0.988	2.67
Peak SAR (Extrapolated)	3.19	-1.93



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D1900V2 – SN5d252	17.0	Flat	10	CW, 0	1900.000	7.4, 7.24, 7.76

Test Setup

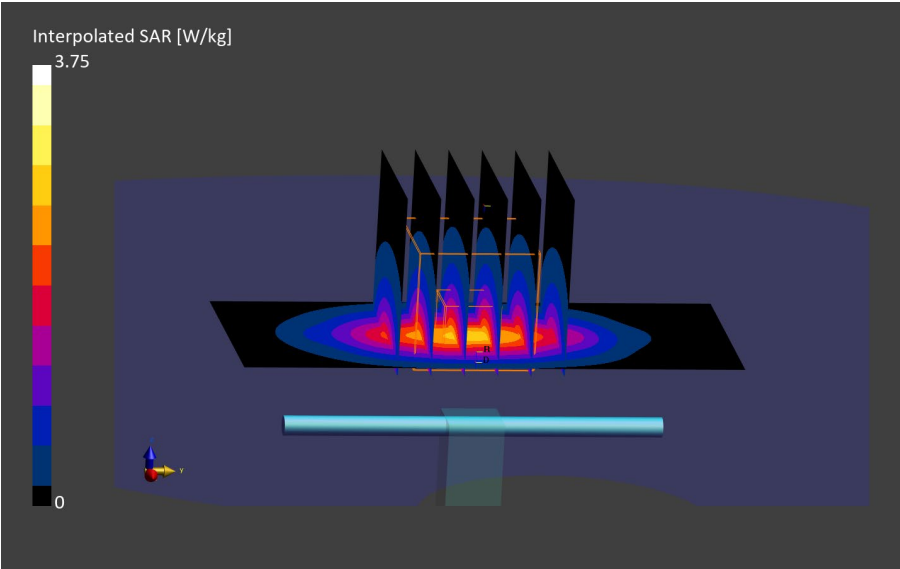
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-22	21.6	20.6	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	1.42	38.3	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	2.10	5.28
psSAR10g	1.09	3.56
Peak SAR (Extrapolated)	3.75	3.78



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D2450V2 – SN1112	17.0	Flat	10	CW, 0	2450.000	7.84, 7.84,7.84

Test Setup

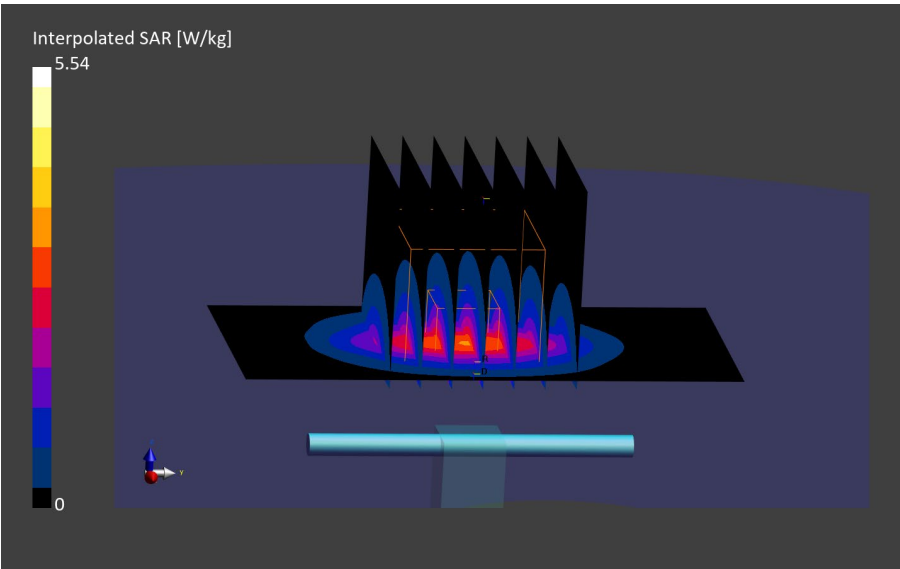
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-27	23.3	22.4	16.4.0.5005	Twin-SAM V8.0 – 2159	Head Simulating Liquid	1.84	39.0	EX3DV4 – SN7872, 2024-03-15	DAE4ip Sn1843, 2024-08-14

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	2.47	-2.60
psSAR10g	1.15	-3.18
Peak SAR (Extrapolated)	5.54	6.08



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D2450V2 – SN1112	17.0	Flat	10	CW, 0	2450.000	7.02, 6.86, 7.36

Test Setup

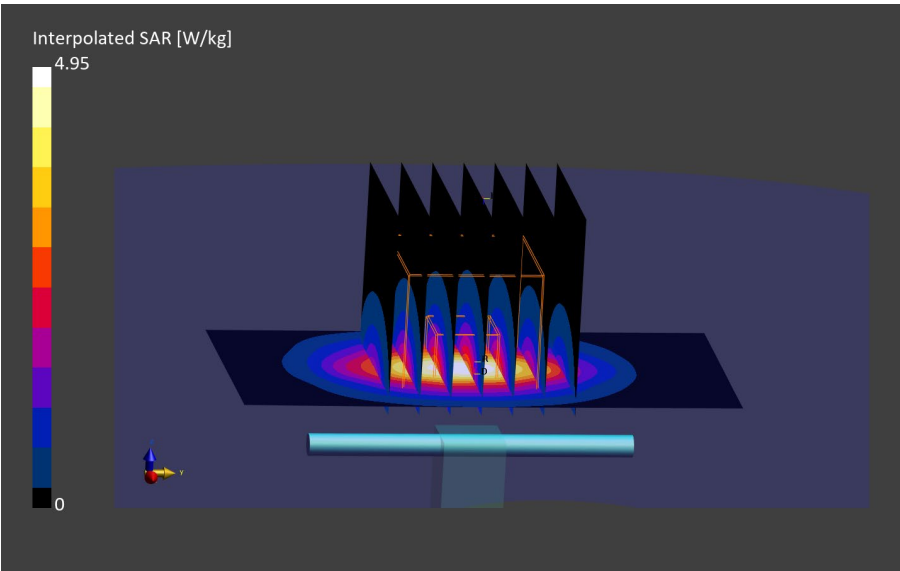
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-27	23.6	20.6	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	1.78	38.2	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	2.44	-3.79
psSAR10g	1.14	-4.03
Peak SAR (Extrapolated)	4.95	-5.22



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D5GHzV2 – SN1396	17.0	Flat	10	CW, 0	5250.000	5.28, 5.16, 5.54

Test Setup

Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-27	23.3	20.6	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	4.42	33.5	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 28.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.4

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	3.76	-3.69
psSAR10g	1.08	-3.8
Peak SAR (Extrapolated)	15.0	-3.52



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D5GHzV2 – SN1396	17.0	Flat	10	CW, 0	5250.000	5.28, 5.16, 5.54

Test Setup

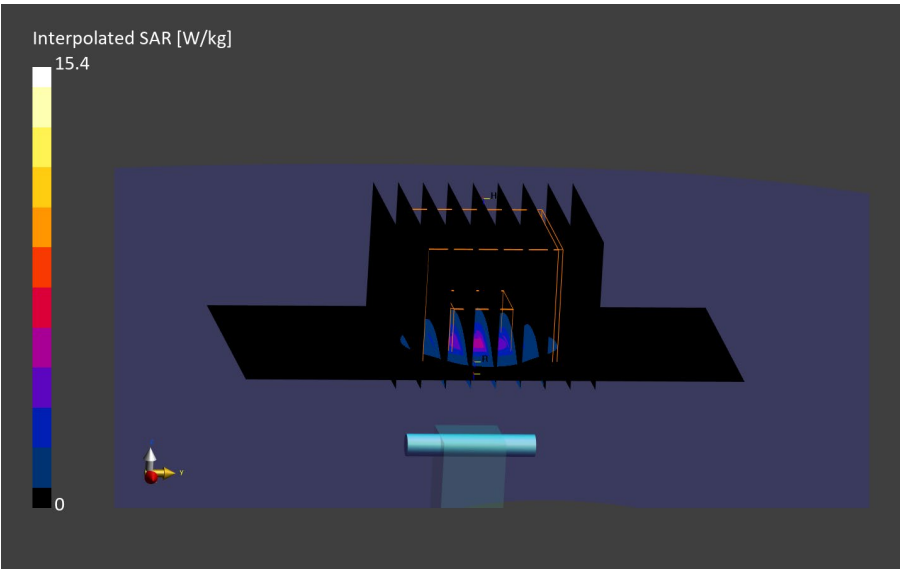
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-30	23.7	22	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	4.46	33.3	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	32.0 x 32.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.4

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	3.86	-1.13
psSAR10g	1.11	-1.13
Peak SAR (Extrapolated)	15.4	-0.94



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D5GHzV2 – SN1396	17.0	Flat	10	CW, 0	5600.000	4.81, 4.7,5.04

Test Setup

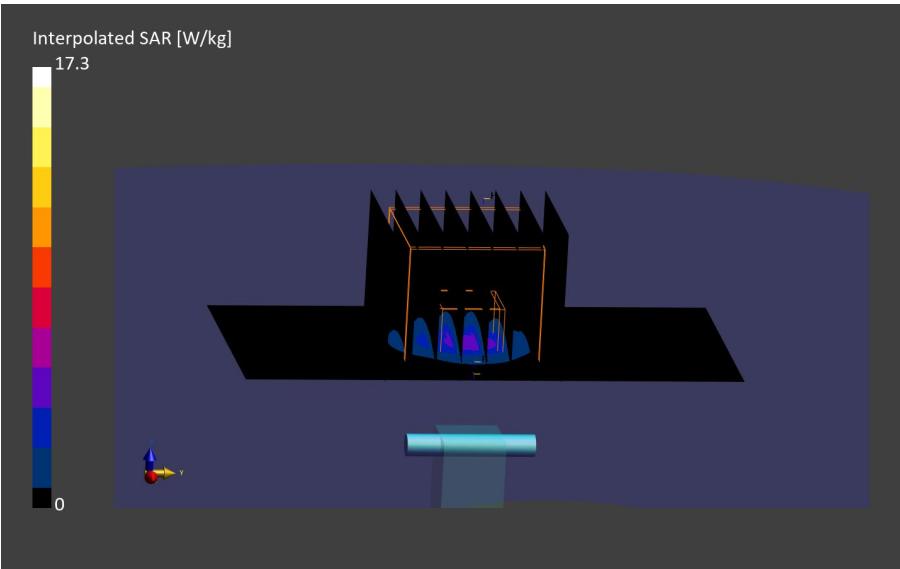
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-27	23.3	20.6	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	4.79	32.9	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 28.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.4

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	3.99	-1.84
psSAR10g	1.13	-3.23
Peak SAR (Extrapolated)	17.3	1.58



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D5GHzV2 – SN1396	17.0	Flat	10	CW, 0	5600.000	4.81, 4.7,5.04

Test Setup

Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-30	23.7	22	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	4.82	32.7	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 28.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.4

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	4.12	1.36
psSAR10g	1.18	1.05
Peak SAR (Extrapolated)	17.9	5.11



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System Verification

Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D5GHzV2 – SN1396	17.0	Flat	10	CW, 0	5750.000	4.98, 4.87,5.22

Test Setup

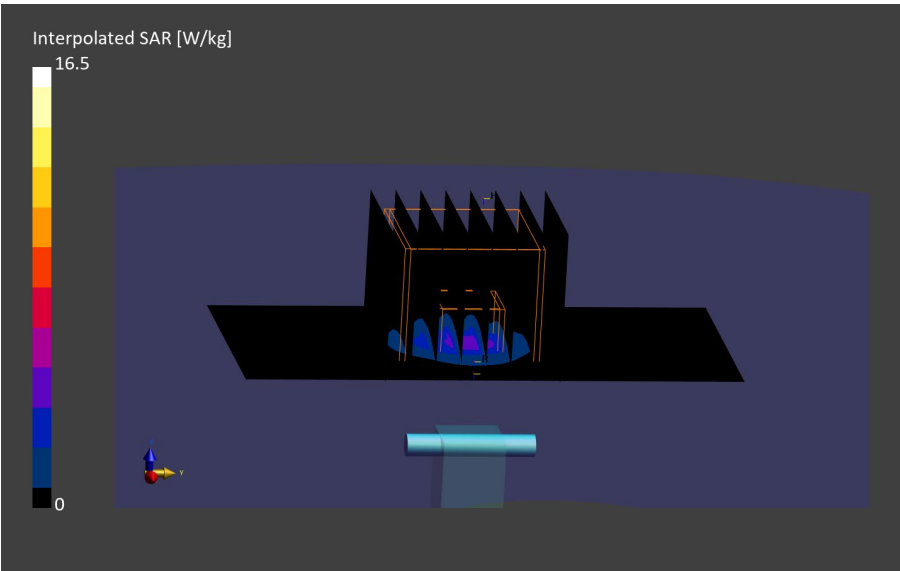
Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-27	23.3	20.6	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	4.96	32.7	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 28.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.4

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	3.71	-7.59
psSAR10g	1.06	-7.24
Peak SAR (Extrapolated)	16.5	-1.17



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Verification Conditions

Verification Source	Power [dBm]	Phantom Section	Test Distance [mm]	Signal, UID	Frequency [MHz]	ConvF (x, y, z)
D5GHzV2 – SN1396	17.0	Flat	10	CW, 0	5750.000	4.98, 4.87, 5.22

Test Setup

Test Date	Ambient Temp [°C]	TSL Temp [°C]	Measurement SW	Phantom	TSL Type	Cond. [S/m]	Perm.	Probe, Cal. Date	DAE, Cal. Date
2025-01-30	23.7	22	16.4.0.5005	Twin-SAM V8.0 – 2165	Head Simulating Liquid	4.99	32.4	EX3DV4 – SN7836, 2024-09-12	DAE4ip Sn1839, 2024-09-04

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 28.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.4

Measurement Results

	SAR [W/kg]	Deviation [%]
psSAR1g	3.81	-5.09
psSAR10g	1.10	-3.74
Peak SAR (Extrapolated)	17.0	1.83

