

Appendix C. Tissue & System Verification

The measuring results for tissue simulating liquid and system check are shown as below.

Note:

1. For Section 3.3, the dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within ± 10 % of the target values. Liquid temperature during the SAR testing has kept within ± 2 °C.
2. For Section 3.3, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Appendix A of this report.
3. For Section 3.4, The SAR measurement system was validated according to procedures in IEC/IEEE 62209-1528:2021 The validation status in tabulated summary is as below.



SAR Test Record - Tissue & System Verification

Tissue Verification										System Validation					Note		
Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Targeted Conductivity (σ)	Targeted Permittivity (ϵ_r)	Deviation Conductivity (σ)	Deviation Permittivity (ϵ_r)	Date	Frequency (MHz)	Targeted SAR (W/kg)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
H2450	2450	21.3	1.830	38.600	1.80	39.2	1.67	-1.53	20 Sep, 2023	2450	52.60	12.70	50.80	-3.42	716	7300	1397
H2450	2450	21.5	1.850	38.500	1.80	39.2	2.78	-1.79	21 Sep, 2023	2450	52.60	12.70	50.80	-3.42	716	7300	1397
H2450	2450	21.2	1.820	38.700	1.80	39.2	1.11	-1.28	22 Sep, 2023	2450	52.60	13.30	53.20	1.14	716	7300	1397
H5G	5300	21.4	4.840	35.500	4.66	36.0	3.86	-1.39	26 Sep, 2023	5300	80.50	8.23	82.30	2.24	1018	7300	1397
H5G	5300	21.3	4.790	35.600	4.66	36.0	2.79	-1.11	28 Sep, 2023	5300	80.50	7.66	76.60	-4.84	1018	7300	1397
H5G	5600	21.5	5.140	34.900	4.96	35.6	3.63	-1.97	05 Oct, 2023	5600	80.10	8.09	80.90	1.00	1018	7300	1397
H5G	5800	21.6	5.380	34.500	5.27	35.3	2.09	-2.27	04 Oct, 2023	5800	79.10	8.04	80.40	1.64	1018	7300	1397
H6500	6500	21.3	6.220	34.800	6.07	34.5	2.47	0.87	22 Sep, 2023	6500	291.00	29.70	297.00	2.06	1035	7300	1397
H6500	6500	21.5	6.120	34.400	6.07	34.5	0.82	-0.29	24 Sep, 2023	6500	291.00	28.40	284.00	-2.41	1035	7300	1397
H6500	6500	21.4	6.040	33.600	6.07	34.5	-0.49	-2.61	25 Sep, 2023	6500	291.00	28.60	286.00	-1.72	1035	7300	1397
H6500	6500	21.1	6.100	34.800	6.07	34.5	0.49	0.87	30 Sep, 2023	6500	291.00	28.20	282.00	-3.09	1035	7300	1397



PD Test Record - System Verification

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			System Validation					Note			
Frequency (GHz)	Ambient Temp. (°C)	Date	Reference Power (100mW)	Normalized PD (W/m ²) Square_4cm ²	Measured PD (W/m ²)	Normalized PD (W/m ²)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	SAR (1cm ² or 4cm ²)
10	22.1	30 Sep, 2023	100	0.62	60.70	0.61	-1.51	1057	9671	1748	4cm ²
10	21.6	04 Oct, 2023	100	0.62	64.90	0.65	5.31	1057	9671	1748	4cm ²
10	21.5	05 Oct, 2023	100	0.62	62.60	0.63	1.58	1057	9671	1748	4cm ²
10	21.4	10 Oct, 2023	100	0.62	62.00	0.62	0.60	1057	9671	1748	4cm ²