

Appendix E. Tissue & System Verification

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

Note:

1. For Section 4.3, 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 4.4, The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.
3. For Section 4.5, 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.

Tissue Verification										System Validation					Note		
Plot No.	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 1g SAR (W/kg)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
S01	1900	23.4	1.45	39.054	1.4	40	3.57	-2.36	May. 10, 2021	1900	40.40	1.98	39.60	-1.98	5d036	7554	1590
S02	1750	23.4	1.326	40.149	1.37	40.1	-3.21	0.12	May. 10, 2021	1750	36.00	1.63	32.60	-9.44	1055	7554	1590
S03	835	23.4	0.928	42.072	0.9	41.5	3.11	1.38	May. 10, 2021	835	9.52	0.439	8.78	-7.77	4d121	7554	1590
S04	1900	23.1	1.453	39.37	1.4	40	3.79	-1.58	May. 05, 2021	1900	40.40	1.98	39.60	-1.98	5d036	7472	579
S05	1750	23.4	1.325	38.809	1.37	40.1	-3.28	-3.22	May. 04, 2021	1750	36.00	1.78	35.60	-1.11	1055	7554	1590
S06	835	23.4	0.907	40.942	0.9	41.5	0.78	-1.34	May. 12, 2021	835	9.52	0.429	8.58	-9.87	4d121	7554	1590
S07	2600	23.4	2.046	38.525	1.96	39	4.39	-1.22	May. 12, 2021	2600	55.50	2.67	53.40	-3.78	1020	7554	1590
S08	750	23.4	0.89	43.198	0.89	41.9	0.00	3.10	May. 12, 2021	750	8.48	0.446	8.92	5.19	1013	7554	1590
S09	750	23.4	0.89	43.198	0.89	41.9	0.00	3.10	May. 12, 2021	750	8.48	0.446	8.92	5.19	1013	7554	1590
S10	1900	23.4	1.45	39.054	1.4	40	3.57	-2.36	May. 12, 2021	1900	40.40	1.98	39.60	-1.98	5d036	7554	1590
S11	835	23.4	0.907	40.942	0.9	41.5	0.78	-1.34	May. 12, 2021	835	9.52	0.429	8.58	-9.87	4d121	7554	1590
S12	2600	23.1	2.038	37.863	1.96	39	3.98	-2.92	May. 05, 2021	2600	55.50	2.5	50.00	-9.91	1020	7472	579
S14	2600	23.4	2.046	38.525	1.96	39	4.39	-1.22	May. 12, 2021	2600	55.50	2.67	53.40	-3.78	1020	7554	1590
S15	1750	23.4	1.326	40.149	1.37	40.1	-3.21	0.12	May. 12, 2021	1750	36.00	1.63	32.60	-9.44	1055	7554	1590
S16	750	23.4	0.892	42.799	0.89	41.9	0.22	2.15	May. 13, 2021	750	8.48	0.432	8.64	1.89	1013	7554	1590
S17	1900	23.2	1.455	39.598	1.4	40	3.93	-1.01	May. 10, 2021	1900	40.40	2.09	41.80	3.47	5d036	7472	528
S18	1750	23.2	1.326	40.14	1.37	40.1	-3.21	0.10	May. 10, 2021	1750	36.00	1.83	36.60	1.67	1055	7472	528
S19	2600	23.2	2.036	38.79	1.96	39	3.88	-0.54	May. 11, 2021	2600	55.50	2.87	57.40	3.42	1020	7472	528
S20	750	23.2	0.89	43.301	0.89	41.9	0.00	3.34	May. 11, 2021	750	8.48	0.42	8.40	-0.94	1013	7472	528
S21	2450	23.4	1.896	38.248	1.8	39.2	5.33	-2.43	May. 15, 2021	2450	51.60	2.51	50.20	-2.71	737	7554	1590
S22	5250	23.2	4.607	34.846	4.71	35.9	-2.19	-2.94	May. 14, 2021	5250	80.60	3.98	79.60	-1.24	1019	7554	1590
S23	5750	23.4	5.133	34.387	5.22	35.4	-1.67	-2.86	May. 15, 2021	5750	79.40	3.62	72.40	-8.82	1019	7554	1590