

Annex C. 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 $\pm 10\%$ of the target values. Liquid temperature during the SAR testing has kept within $\pm 2^\circ\text{C}$.
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 Annex 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	23.2	1.452	39.914	1.4	40	3.71	-0.21	Aug. 04, 2021	1900	40.40	2.07	41.40	2.48	5d036	7537	1585
S02	1750	23.2	1.328	41.494	1.37	40.1	-3.07	3.48	Aug. 04, 2021	1750	36.40	1.83	36.60	0.55	1111	7537	1585
S03	835	23.2	0.916	40.658	0.9	41.5	1.78	-2.03	Aug. 04, 2021	835	9.49	0.473	9.46	-0.32	4d092	7537	1585
S04	835	23.2	0.916	40.658	0.9	41.5	1.78	-2.03	Aug. 04, 2021	835	9.49	0.473	9.46	-0.32	4d092	7537	1585
S05	2600	23.3	2.03	38.531	1.96	39	3.57	-1.20	Aug. 04, 2021	2600	55.30	2.71	54.20	-1.99	1077	7555	1589
S06	750	23.2	0.9	42.18	0.89	41.9	1.12	0.67	Aug. 04, 2021	750	8.48	0.409	8.18	-3.54	1013	7537	1585
S07	750	23.2	0.9	42.18	0.89	41.9	1.12	0.67	Aug. 04, 2021	750	8.48	0.409	8.18	-3.54	1013	7537	1585
S08	750	23.2	0.9	42.18	0.89	41.9	1.12	0.67	Aug. 04, 2021	750	8.48	0.409	8.18	-3.54	1013	7537	1585
S09	1900	23.2	1.452	39.914	1.4	40	3.71	-0.21	Aug. 04, 2021	1900	40.40	2.07	41.40	2.48	5d036	7537	1585
S10	835	23.2	0.916	40.658	0.9	41.5	1.78	-2.03	Aug. 04, 2021	835	9.49	0.473	9.46	-0.32	4d092	7537	1585
S11	2300	23.3	1.715	39.572	1.67	39.5	2.69	0.18	Aug. 04, 2021	2300	49.20	2.23	44.60	-9.35	1004	7555	1589
S12	2600	23.4	2.017	38.567	1.96	39	2.91	-1.11	Aug. 18, 2021	2600	55.30	2.54	50.80	-8.14	1077	7472	579
S13	2600	23.3	2.03	38.531	1.96	39	3.57	-1.20	Aug. 04, 2021	2600	55.30	2.71	54.20	-1.99	1077	7555	1589
S14a	3500	23.3	2.903	36.992	2.91	37.9	-0.24	-2.40	Aug. 05, 2021	3500	65.60	2.96	59.20	-9.76	1007	7555	1589
S14b	3700	23.3	3.109	36.385	3.12	37.7	-0.35	-3.49	Aug. 05, 2021	3700	65.90	3.54	70.80	7.44	1017	7555	1589
S15	1750	23.4	1.326	39.842	1.37	40.1	-3.21	-0.64	Aug. 18, 2021	1750	36.40	1.79	35.80	-1.65	1111	7472	579
S16	1900	23.3	1.459	39.97	1.4	40	4.21	-0.08	Aug. 17, 2021	1900	40.40	2.09	41.80	3.47	5d036	7537	1585
S17	835	23.4	0.918	41.553	0.9	41.5	2.00	0.13	Aug. 19, 2021	835	9.49	0.442	8.84	-6.85	4d092	7472	579
S18	2600	23.2	2.034	37.395	1.96	39	3.78	-4.12	Aug. 19, 2021	2600	55.30	2.77	55.40	0.18	1077	7537	1585
S19	1900	23.3	1.459	39.97	1.4	40	4.21	-0.08	Aug. 17, 2021	1900	40.40	2.09	41.80	3.47	5d036	7537	1585
S20	2300	23.3	1.707	38.627	1.67	39.5	2.22	-2.21	Aug. 17, 2021	2300	49.20	2.37	47.40	-3.66	1004	7537	1585
S21	2600	23.4	2.016	37.567	1.96	39	2.86	-3.67	Aug. 23, 2021	2600	55.30	2.62	52.40	-5.24	1077	7472	579
S22	2600	23.4	2.036	38.818	1.96	39	3.88	-0.47	Aug. 19, 2021	2600	55.30	2.55	51.00	-7.78	1077	7472	579
S23	1750	23.2	1.325	38.941	1.37	40.1	-3.28	-2.89	Aug. 18, 2021	1750	36.40	1.72	34.40	-5.49	1111	7537	1585
S24a	3700	23.4	3.109	36.385	3.12	37.7	-0.35	-3.49	Aug. 19, 2021	3700	65.90	3.09	61.80	-6.22	1017	7472	579
S24b	3900	23.4	3.205	36.395	3.32	37.5	-3.46	-2.95	Aug. 19, 2021	3900	70.90	3.61	72.20	1.83	1020	7472	579
S25	3700	23.4	3.109	36.385	3.12	37.7	-0.35	-3.49	Aug. 19, 2021	3700	65.90	3.09	61.80	-6.22	1017	7472	579
S26	2450	23.2	1.866	38.52	1.8	39.2	3.67	-1.73	Jul. 31, 2021	2450	52.70	2.58	51.60	-2.09	835	3971	1431
S27	5250	23.5	4.682	36.664	4.71	35.9	-0.59	2.13	Aug. 02, 2021	5250	80.60	3.98	79.60	-1.24	1019	7472	579
S28	5600	23.5	5.056	36.215	5.07	35.5	-0.28	2.01	Aug. 02, 2021	5600	82.40	4.22	84.40	2.43	1019	7472	579
S29	5750	23.2	5.319	34.787	5.22	35.4	1.90	-1.73	Jul. 31, 2021	5750	79.40	3.66	73.20	-7.81	1019	3971	1431
S30	2450	23.2	1.866	38.52	1.8	39.2	3.67	-1.73	Jul. 31, 2021	2450	52.70	2.58	51.60	-2.09	835	3971	1431