

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									Validation for CW			Validation for Modulation				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)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	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	2450	23.1	1.884	39.285	1.8	39.2	4.67	0.22	Pass	Pass	Pass	OFDM	N/A	Pass	May. 10, 2021	2450	51.60	2.33	46.49	-9.90	737	3971	1431
S02	5250	23.2	4.519	37.125	4.71	35.9	-4.06	3.41	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 28, 2021	5250	80.60	3.67	73.23	-9.15	1019	3887	861
S03	5250	23.3	4.701	36.243	4.71	35.9	-0.19	0.96	Pass	Pass	Pass	OFDM	N/A	Pass	May. 18, 2021	5250	80.60	3.86	77.02	-4.45	1019	3971	1431
S04	5600	23.3	5.124	35.657	5.07	35.5	1.07	0.44	Pass	Pass	Pass	OFDM	N/A	Pass	May. 18, 2021	5600	82.40	3.79	75.62	-8.23	1019	3971	1431
S05	5750	23.4	5.014	33.778	5.22	35.4	-3.95	-4.58	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 11, 2021	5750	79.40	4.22	84.20	6.05	1019	3971	1431
S06	2450	23.2	1.875	38.898	1.8	39.2	4.17	-0.77	Pass	Pass	Pass	OFDM	N/A	Pass	May. 12, 2021	2450	51.60	2.58	51.48	-0.24	737	7472	528