

APPENDIX C: DIELECTRIC PARAMETERS OF THE TISSUE SIMULANTS

Head tissue simulant dielectric parameters used in the measurements:

f (MHz)	GSM850	Dielectric Parameters					
	Date	CH 128 824.2 MHz		CH 190 836.6 MHz		CH 251 848.8 MHz	
		e _r	s [S/m]	e _r	s [S/m]	e _r	s [S/m]
836	2015-06-03	41.7	0.90	41.6	0.92	41.4	0.93
	2015-06-05	42.0	0.88	41.9	0.90	41.7	0.91
	2015-06-18	41.1	0.90	40.9	0.91	40.7	0.92
f (MHz)	GSM1900	Dielectric Parameters					
	Date	CH 512 1850.2 MHz		CH 661 1880.0 MHz		CH 810 1909.8 MHz	
		e _r	s [S/m]	e _r	s [S/m]	e _r	s [S/m]
1880	2015-06-03	39.0	1.34	38.9	1.37	38.8	1.40
	2015-06-18	38.5	1.32	38.4	1.35	38.3	1.38

Body tissue simulant dielectric parameters used in the measurements:

f (MHz)	GSM850	Dielectric Parameters					
	Date	CH 128 824.2 MHz		CH 190 836.6 MHz		CH 251 848.8 MHz	
		e _r	s [S/m]	e _r	s [S/m]	e _r	s [S/m]
836	2015-06-03	53.4	0.93	53.3	0.94	53.3	0.95
	2015-06-18	53.7	0.95	53.5	0.96	53.4	0.97
f (MHz)	GSM1900	Dielectric Parameters					
	Date	CH 512 1850.2 MHz		CH 661 1880.0 MHz		CH 810 1909.8 MHz	
		e _r	s [S/m]	e _r	s [S/m]	e _r	s [S/m]
1880	2015-06-03	52.7	1.44	52.7	1.47	52.6	1.50
	2015-06-18	53.8	1.46	53.7	1.49	53.6	1.52