APPENDIX B: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{\pi} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}'\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

.2 Mixtures		
escription: Aqueous solution with eclarable, or hazardous component		
CAS: 107-21-1	Ethanediol	>1.0-4.9%
EINECS: 203-473-3	STOT RE 2, H373;	
Reg.nr.: 01-2119456816-28-0000	Acute Tox. 4, H302	
CAS: 68608-26-4	Sodium petroleum sulfonate	< 2.9%
EINECS: 271-781-5	Eye Irrit. 2, H319	
Reg.nr.: 01-2119527859-22-0000		
CAS: 107-41-5	Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%
EINECS: 203-489-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119539582-35-0000		
CAS: 68920-66-1	Alkoxylated alcohol, > C ₁₆	< 2.0%
NLP: 500-236-9	Aquatic Chronic 2, H411;	
Reg.nr.: 01-2119489407-26-0000	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
dditional information:		
or the wording of the listed risk phra		
lot mentioned CAS- FINECS- or re	gistration numbers are to be regarded as Proprietary	Confidential.

Figure B-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCC ID: C3K2095	RF EXPOSURE PART 2 TEST REPORT	Approved by:
		Technical Manager
DUT Type:		Appendix B
Portable Handset		Page 1 of 2

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Schmid & Partner Engineering AG

s p e a g

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Measurement Certificate / Material Test

Item Name Head Tissue Simulating Liquid (HBBL600-10000V6)
Product No. SL AAH U16 BC (Batch: 230313-2)
Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient Condition 22°C; 30% humidity

TSL Temperature 22°C
Test Date 17-Mar-23
Operator WM

Additional Information

TSL Density

TSL Heat-capacity

Populte

Measured			Target		Diff.to Target [%]		
f [MHz]	e'	e"	sigma	eps	sigma	Δ-eps	∆-sigma
600	44.9	24.8	0.83	42.7	0.88	5.1	-5.9
750	44.2	21.0	0.88	41.9	0.89	5.4	-1.5
800	44.0	20.1	0.90	41.7	0.90	5.6	0.3
825	44.0	19.8	0.91	41.6	0.91	5.8	0.4
835	44.0	19.6	0.92	41.5	0.91	5.9	0.9
850	43.9	19.4	0.92	41.5	0.92	5.8	0.4
900	43.7	18.7	0.94	41.5	0.97	5.3	-3.1
1400	42.6	14.7	1.15	40.6	1.18	4.9	-2.5
1450	42.5	14.5	1.17	40.5	1.20	4.9	-2.5
1600	42.3	14.0	1.25	40.3	1.28	4.9	-2.7
1625	42.3	13.9	1.26	40.3	1.30	5.0	-3.0
1640	42.3	13.9	1.27	40.3	1.31	5.1	-2.8
1650	42.2	13.9	1.27	40.2	1.31	4.9	-3.3
1700	42.1	13.8	1.30	40.2	1.34	4.8	-3.1
1750	42.1	13.7	1.33	40.1	1.37	5.0	-3.0
1800	42.0	13.6	1.36	40.0	1.40	5.0	-2.9
1810	42.0	13.6	1.37	40.0	1.40	5.0	-2.1
1825	42.0	13.5	1.38	40.0	1.40	5.0	-1.4
1850	42.0	13.5	1.39	40.0	1.40	5.0	-0.7
1900	41.9	13.4	1.42	40.0	1.40	4.7	1.4
1950	41.8	13.4	1.45	40.0	1.40	4.5	3.6
2000	41.8	13.3	1.48	40.0	1.40	4.5	5.7
2050	41.7	13.3	1.51	39.9	1.44	4.5	4.5
2100	41.7	13.2	1.55	39.8	1.49	4.7	4.1
2150	41.6	13.2	1.58	39.7	1.53	4.7	3.0
2200	41.5	13.2	1.62	39.6	1.58	4.7	2.7
2250	41.4	13.2	1.65	39.6	1.62	4.7	1.7
2300	41.3	13.2	1.69	39.5	1.67	4.6	1.4
2350	41.3	13.3	1.73	39.4	1.71	4.9	1.1
2400	41.2	13.3	1.77	39.3	1.76	4.9	0.8
2450	41.1	13.3	1.81	39.2	1.80	4.8	0.6
2500	41.1	13.3	1.85	39.1	1.85	5.0	-0.2
2550	41.0	13.3	1.89	39.1	1.91	4.9	-1.0
2600	40.9	13.4	1.93	39.0	1.96	4.8	-1.7

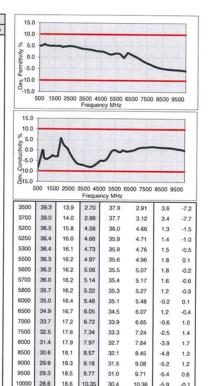


Figure B-2 600 – 5800 MHz Head Tissue Equivalent Matter

FCC ID: C3K2095	RF EXPOSURE PART 2 TEST REPORT	Approved by:
		Technical Manager
DUT Type:		Appendix B
Portable Handset	Page 2 of 2	