

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system were configured and calibrated.
- 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 $j = \sqrt{-1}$.

3 Composition / Information on ingredients

Description: Aqueous solution with surfactants and inhibitors

Declarable, or nazardous components:						
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					

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential The specific chemical identity and/or exact percentage concentration of proprietary components is

withheld as a trade secret.

Figure D-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.

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Measurement Certificate / Material Test

Head Tissue Simulating Liquid (HBBL600-10000V6) Item Name

Product No. SL AAH U16 CA (Batch: 250317-1)

Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

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

Test Condition

Ambient Condition 22°C; 30% humidity

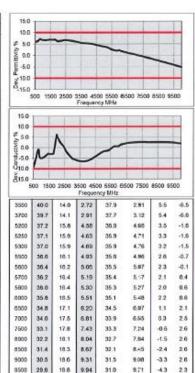
TSL Temperature 22°C 20-Mar-25 Test Date

Operator CL

Additional Information TSL Density

TSL Heat-capacity

Measured		Target		Diff.to Target [%]		15.0				
f [MHz]		6"	sigma	eps	sigma	A-eps	A-sigma	10.0		
600	45.3	24.6	0.82	42.7	0.88	6.0	+7.0	\$ 50	~	_
750	44.7	20.9	0.87	41.9	0.09	6.6	-2.6	20		
800	44.6	20.0	0.89	41.7	0.90	7.0	-0.8	五 0.0		
825	44.5	19.6	0.90	41.6	0.91	7.0	-0.7	E-5.0		
835	44.5	19.4	0.91	41.5	0.91	7.1	-0.2	3 10.0 15.0		
850	44.4	19.2	0.91	41.5	0.92	7.0	-0.7			
900	44.3	18.5	0.93	41.5	0.97	6.7	-4.1		100 150	0 25
1400	43.4	14.7	1.14	40.6	1.18	6.9	43.3	15.0		
1450	43.3	14.5	1.17	40.5	1.20	6.9	-2.5	10.0		
1000	43.1	14.0	1.25	40.3	1.25	6.9	-2.7	Z 50		
1825	43.1	13.9	1.26	40.3	1,30	7.0	-3.0	6		Ν
1840	43.1	13.9	1.27	45.3	1.31	7.1	-2.8	₹ 0.0 ₹-5.0	10	1
1850	43.0	13.9	1.27	40.2	1.31	6.9	-3.3	8100	1	
1700	42.9	13.8	1.30	40.2	1.34	6.8	-3.1	Ž15.0		
1750	42.8	13.7	1.33	40.1	1.37	6.8	-3.0		00 150	0 250
1800	42.8	13.6	1.38	40.0	1.40	7.0	-2.9	3	100000	100
1810	42.8	13.6	1.37	40,0	1.40	7.0	-2.1	3500	40.0	14
1025	42.0	13.6	1.38	40,0	1.60	7.0	-1.4	3700	39.7	14
1850	42.7	13.5	1.39	40.0	1.40	6.8	-0.7	5200	37.2	15
1900	42.6	13.4	1.42	40.0	1.40	8.5	1.4	5250	37.1	15
1950	42.5	13,4	1.45	40.0	1.40	6.3	3.6	5300	37.0	15
2000	42.5	13,4	1.49	40,0	1.40	6.3	6.4	5500	36.6	18
2050	42.4	13.3	1.52	39.9	1.44	6.2	5.2	5600	36.4	16
2100	42.3	13.3	1.55	39.8	1.49	6.2	4.1	5700	36.2	16
2150	42.3	13.3	1.59	39.7	1.53	6.5	3.7	5800	38.0	18
2200	42.2	13.3	1.62	39.0	1.58	6.4	2.7	6000	35.8	18
2250	42.1	13.3	1.66	39.6	1.62	6.4	2.3	6500	34.8	17.
2300	42.0	13.3	1.70	39.5	1,67	6.4	2.0	7000	34.0	17
2350	42.0	13.3	1.74	39.4	1.71	6.7	1.7	7500	33.1	17.
2400	41.9	13.3	1.77	39.3	1.76	6.6	0.8	8000	32.2	18
2450	41.8	13.3	1.81	39.2	1,80	0.6	0.6	8500	31.4	18
2500	41.8	13.3	1.85	39.1	1.85	6.8	-0.2	9000	30.5	18.
2550	41.7	13.3	1,80	39.1	1.91	6.7	-1.0	9500	29.6	18
2000	41.6	13.4	1.93	39.0	1.96	8.8	-1.7	10000	28.8	19.



10.36 -5.2

Figure D-2 600 - 10000 MHz Head Tissue Equivalent Matter

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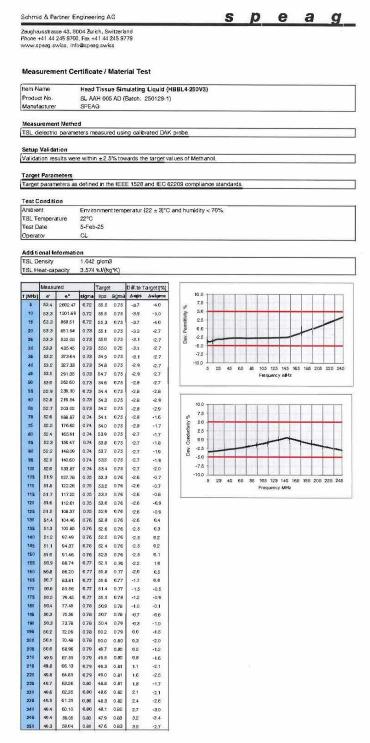


Figure D-3
5- 250 MHz Head Tissue Equivalent Matter

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