

Tissue Parameters

The recipes for the SAR liquids are not included in this report. The development of these liquids required significant time and expense from Cetecom Inc. We have experimented with some recipes that are being published and find that these are not valid recipes. Other companies are marketing 5 GHz SAR liquids, but will not divulge the recipes, even to their paying customers. Based on the competitiveness in this area we would prefer to keep our 5 GHz SAR liquid recipes confidential.

5200 MHz Head liquid:

Di-electric constants measured on 4/17/2006. SAR measurements were made within 24 hours of the measurement of liquid parameters.

Freq.	Rel.	Condy
(MHz)	Perm.	(S/m)
5250	36.51	4.717

5200 MHz Body liquid:

Di-electric constants measured on 4/17/2006. SAR measurements were made within 24 hours of the measurement of liquid parameters.

Freq.	Rel.	Condy
(MHz)	Perm.	(S/m)
5180	50.19	5.370
5260	49.83	5.236
5320	48.91	5.133

5800 MHz Head liquid:

Di-electric constants measured on 4/18/2006. SAR measurements were made within 24 hours of the measurement of liquid parameters.

Freq.	Rel.	Condy
(MHz)	Perm.	(S/m)
5775	35.85	5.473

5800 MHz Body liquid:

Di-electric constants measured on 4/18/2006. SAR measurements were made within 24 hours of the measurement of liquid parameters.

Freq.	Rel.	Condy
(MHz)	Perm.	(S/m)
5745	47.41	6.42
5765	47.02	6.38
5825	46.91	6.40

Environment: 4/17/2006 & 4/18/2006:

Temperature: 20.1 °C – 23.9°C

Humidity: 45% _ 55 %

Date of Report: 4/20/2006

Appendix C Misc.

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Test Equipment

Instrument description	Supplier / Manufacturer	Model	Serial No.	Calibration (date)	Calibration Due (date)
Bench top Robot	Mitsubishi supplied by IndexSAR	RV-E2	EA1030108	N/A	N/A
SAM Phantom	Upright shell phantom made by Antennessa digitized and mounted by IndexSAR	SAM	03FT26	04/03	N/A
Flat Phantom	IndexSAR	HeadBox_Spout	N/A	N/A	N/A
Software	IndexSAR	SARA2 v2.41 VPM	N/A	N/A	N/A
5200 MHz Head Tissue Simulant	Cetecom Inc.	5200 Head	N/A	4/17/2006	N/A
5800 MHz Body Tissue Simulant	Cetecom Inc.	5800 Head	N/A	4/17/2006	N/A
5200 MHz body Tissue Simulant	Cetecom Inc.	5200 Head	N/A	4/18/2006	N/A
5800 MHz body Tissue Simulant	Cetecom Inc.	5800 Head	N/A	4/18/2006	N/A
5250 MHz Dipole	IEEE 1528 design	5250	001	07/20/2005	07/20/2006
5775 MHz Dipole	IEEE 1528 design	5775	001	07/20/2005	07/20/2006
Directional coupler	Werlatone	C6529	11249	N/A	N/A
RF Amplifier	Vectawave	VTL5400	N/A	N/A	N/A
SAR Probe	IndexSAR	IXP-030	S/N M0016	9/29/2005	9/29/2006
Dielectric Measurement Kit	IndexSAR	Di-Line	N/A	N/A	N/A