Appendix C

GLM Results for the Branch Water and Salt Fog Tests

Table C.1 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HCLV PTH	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	6.916	0.045	0.071	-0.063	-0.034	-0.006	-0.014	-0.78
Benzimidazole								
Immersion Ag					-0.114			
Immersion Au/Pd						0.135		
Parylene	-0.122			0.111				
Silicone		-0.142				-0.212		
Urethane	0.209		-0.091					
Flux							-0.078	
Benzi*Parylene								
Imm Ag*Parylene	0.113		-0.155					
Imm Au/Pd*Parylene								
Benzi*Silicone		0.164				0.280		
Imm Ag*Silicone								
Imm Au/Pd*Silicone								
Benzi*Urethane								
Imm Ag* Urethane					0.181			
Imm Au/Pd* Urethane								
Benzi*Flux							0.127	-1.43
Imm Ag*Flux								
Imm Au/Pd*Flux						-0.207		
Parylene*Flux	0.146			-0.198				
Silicone*Flux	-0.086	0.154		0.105		0.346	0.167	
Urethane*Flux								
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux						-0.320		
Imm Ag*Silicone*Flux		0.240			0.310			-2.50
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux				0.255				
Imm Au/Pd*Urethane*Flux								
Model R^2	37.4%	9.6%	5.6%	11.2%	7.9%	14.0%	9.2%	7.2%
Standard Deviation	0.148	0.217	0.208	0.209	0.204	0.209	0.205	2.25

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.2 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HCLV SMT	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	7.194	-0.022	-0.070	-0.185	-0.141	-0.205	-0.209	-0.56
Benzimidazole								-2.04
Immersion Ag								-3.11
Immersion Au/Pd				-0.055				
Parylene								
Silicone								
Urethane			0.121	0.233	0.216	0.257	0.227	
Flux								
Benzi*Parylene								
Imm Ag*Parylene								3.50
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone								
Imm Au/Pd*Silicone								
Benzi*Urethane								
Imm Ag* Urethane								
Imm Au/Pd* Urethane								
Benzi*Flux		-0.037	-0.130					
Imm Ag*Flux								
Imm Au/Pd*Flux	0.074		-0.100		-0.117			
Parylene*Flux								
Silicone*Flux								
Urethane*Flux								
Benzi*Parylene*Flux			0.200					
Imm Ag*Parylene*Flux			-0.170					
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux			0.200					
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								
Model R^2	5.0%	0.5%	15.6%	32.6%	34.0%	41.6%	33.4%	10.5%
Standard Deviation	0.108	0.162	0.175	0.150	0.141	0.132	0.139	3.89

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.3 Significant Coefficients for the GLM Analyses by Test Time (all units are in terms of log_{10})

Electrical Response: HVLC PTH	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	0.7055	2.859	0.7022	0.870	0.7022	0.033	0.7019	0.559
Benzimidazole	-0.0028							
Immersion Ag	-0.0023							
Immersion Au/Pd	-0.0024							
Parylene		-1.70		-0.56		1.98		
Silicone		-0.63				0.81		
Urethane	-0.0030	-1.05	-0.0018	1.79	-0.0020	1.32	-0.0015	
Flux	-0.0037	-1.55						
Benzi*Parylene					0.0036			
Imm Ag*Parylene							0.0018	
Imm Au/Pd*Parylene				0.96				
Benzi*Silicone								
Imm Ag*Silicone			0.0010			1.54		
Imm Au/Pd*Silicone								
Benzi*Urethane								
Imm Ag* Urethane				-1.01				
Imm Au/Pd* Urethane								
Benzi*Flux	0.0031							
Imm Ag*Flux	0.0029				0.0013	1.55		
Imm Au/Pd*Flux	0.0028							
Parylene*Flux		1.40						0.82
Silicone*Flux		1.58						
Urethane*Flux	0.0015	1.82						
Benzi*Parylene*Flux					-0.0034			
Imm Ag*Parylene*Flux					-0.0025	-1.98	-0.0029	
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux						-3.13		
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								
Model R^2	37.0%	27.4%	26.2%	32.6%	25.0%	33.8%	17.1%	5.0%
Standard Deviation	0.0019	0.998	0.0014	1.15	0.0020	1.13	0.0017	1.19

*All GLM analyses including Pre-Test were based on logarithms. Logs were used to ameliorate the influence of extreme measurements on the GLM during the BW and SF tests.

Table C.4 Significant Coefficients for the GLM Analyses by Test Time (all units are in terms of log_{10}

Electrical Response: HVLC SMT	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	0.6944	1.47	0.6945	3.30	0.696	0.54	0.698	1.26
Benzimidazole								-1.67
Immersion Ag					0.380	0.72	0.340	-1.92
Immersion Au/Pd						0.63		-0.72
Parylene				-2.50		1.50		
Silicone		1.34		-2.08				
Urethane	0.0050	0.63	0.0055	-2.44		1.91		
Flux		0.92						
Benzi*Parylene								1.57
Imm Ag*Parylene					-0.382		-0.343	1.15
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone					-0.382	-0.75	-0.343	
Imm Au/Pd*Silicone						-0.79		
Benzi*Urethane								
Imm Ag* Urethane					-0.377	-1.91	-0.338	1.68
Imm Au/Pd* Urethane								
Benzi*Flux			0.0411					
Imm Ag*Flux					-0.382		-0.343	
Imm Au/Pd*Flux								
Parylene*Flux		-1.06				-0.81		
Silicone*Flux		-1.02						
Urethane*Flux		-1.30						
Benzi*Parylene*Flux			-0.0408			1.53		
Imm Ag*Parylene*Flux					0.382		0.344	
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux			-0.0402					
Imm Ag*Silicone*Flux					0.382		0.343	
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux			-0.0415					
Imm Ag*Urethane*Flux	0.0027				0.385	1.24	0.346	
Imm Au/Pd*Urethane*Flux								
Model R^2	65.1%	28.8%	44.0%	57.6%	48.0%	52.4%	35.0%	26.9%
Standard Deviation	0.0017	0.883	0.0078	0.892	0.065	0.913	0.084	1.21

*All GLM analyses including Pre-Test were based on logarithms. Logs were used to ameliorate the influence of extreme measurements on the GLM during the BW and SF tests.

Table C.5 Significant Coefficients for the GLM Analyses by Test Time (units in the first column are *ns*, all others are percentages)

Electrical Response: HSD PTH	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	13.03	47.17	0.415	11.02	1.54	5.16	0.67	36.68
Benzimidazole								
Immersion Ag								
Immersion Au/Pd								
Parylene				-5.04		-2.00		
Silicone				-6.11		-2.43		
Urethane	4.22	-13.0	0.46	24.76	-1.95	31.60		-37.23
Flux								
Benzi*Parylene								
Imm Ag*Parylene								
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone		-8.8						
Imm Au/Pd*Silicone								
Benzi*Urethane	-0.23						1.14	
Imm Ag* Urethane	-0.28				2.30		1.88	4.20
Imm Au/Pd* Urethane	-0.35			2.70	2.40		1.99	
Benzi*Flux								
Imm Ag*Flux								
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux								
Urethane*Flux					2.11			
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux					-3.50			-5.00
Imm Au/Pd*Urethane*Flux					-4.60	13.10		
Model R^2	98.1%	24.2%	1.3%	95.0%	9.4%	92.0%	14.8%	96.0%
Standard Deviation	0.25	10.2	1.62	2.90	1.98	4.07	1.64	3.39

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.6 Significant Coefficients for the GLM Analyses by Test Time (units in the first column are *ns*, all others are percentages

Electrical Response: HSD SMT	**Branch Water**							**Salt Fog**
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	5.03	91.27	1.58	7.48	3.13	9.96	1.99	36.68
Benzimidazole		28.6						
Immersion Ag		29.2						
Immersion Au/Pd								
Parylene						-3.10		
Silicone	0.06							
Urethane	4.14			58.53		54.36	2.47	-37.88
Flux	-0.07	26.7						
Benzi*Parylene								
Imm Ag*Parylene								
Imm Au/Pd*Parylene								
Benzi*Silicone						-3.83		
Imm Ag*Silicone		-26				-3.24		
Imm Au/Pd*Silicone				-2.8				
Benzi*Urethane		-59				3.9		
Imm Ag* Urethane		-55				8.4		2.60
Imm Au/Pd* Urethane	-0.21		-1.36	5.6				
Benzi*Flux		-32						
Imm Ag*Flux		-25						
Imm Au/Pd*Flux				2.8				
Parylene*Flux								
Silicone*Flux								
Urethane*Flux	0.14	-55						
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux				-4.2				
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux						-4.1		
Benzi*Urethane*Flux		64						
Imm Ag*Urethane*Flux		51				-6.1		5.60
Imm Au/Pd*Urethane*Flux	0.26			-9.5	-3.7			
Model R^2	99.4%	39.2%	1.4%	98.7%	4.3%	98.6%	19.2%	96.1%
Standard Deviation	0.140	27.5	2.28	2.91	3.14	2.80	2.22	3.36

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.7 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF PTH 50 MHz	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	-0.263	-0.154	0.014	1.649	0.015	-0.154	0.028	-1.18
Benzimidazole		0.031				0.040		-36.6
Immersion Ag		0.053			0.034			-36.9
Immersion Au/Pd	0.015	0.044			0.030			
Parylene		0.132				0.188		
Silicone		0.232				0.286		
Urethane		0.262		1.220	0.035	0.270	0.037	
Flux						0.058		
Benzi*Parylene							-0.098	34.9
Imm Ag*Parylene								29.1
Imm Au/Pd*Parylene								
Benzi*Silicone								33.4
Imm Ag*Silicone								19.3
Imm Au/Pd*Silicone								
Benzi*Urethane			-0.046					32.1
Imm Ag* Urethane		-0.060			-0.045			21.3
Imm Au/Pd* Urethane		-0.036						-31.4
Benzi*Flux								
Imm Ag*Flux								13.0
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux				-2.010	-0.033	-0.199		
Urethane*Flux								
Benzi*Parylene*Flux							0.099	
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux					0.058	0.179		
Imm Ag*Silicone*Flux					0.051	0.170		
Imm Au/Pd*Silicone*Flux				3.10		0.139	-0.094	
Benzi*Urethane*Flux			0.060					-26.6
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux			-0.070					
Model R^2	4.2%	87.6%	11.2%	8.0%	24.4%	58.5%	15.9%	50.5%
Standard Deviation	0.032	0.038	0.042	2.97	0.039	0.099	0.071	13.8

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.8 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF PTH f(-3dB)	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	249.7	-14.13	0.488	-8.91	-0.15	-10.34	0.803	-14.94
Benzimidazole								-122
Immersion Ag								-76
Immersion Au/Pd								
Parylene	3.18	13.1				14.8		
Silicone		18.7	-4.17		-3.3	12.8	-2.05	
Urethane		22.5	-5.81		-2.6	24.1		
Flux								
Benzi*Parylene								107
Imm Ag*Parylene								
Imm Au/Pd*Parylene								
Benzi*Silicone								121
Imm Ag*Silicone								
Imm Au/Pd*Silicone								
Benzi*Urethane								135
Imm Ag* Urethane				23.0				
Imm Au/Pd* Urethane								-113
Benzi*Flux								116
Imm Ag*Flux			-4.8					81
Imm Au/Pd*Flux								
Parylene*Flux							3.3	
Silicone*Flux								
Urethane*Flux								-46
Benzi*Parylene*Flux								-161
Imm Ag*Parylene*Flux	-5.30						-5.7	
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux						10.2		-142
Imm Ag*Silicone*Flux			7.4					
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								-170
Imm Ag*Urethane*Flux			9.1					
Imm Au/Pd*Urethane*Flux								
Model R^2	7.2%	66.5%	22.3%	1.2%	7.7%	49.6%	7.9%	30.1%
Standard Deviation	5.12	6.10	4.72	49.7	5.26	8.97	5.10	70.7

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.9 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF PTH f(-40dB)	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	442.4	0.76	-0.12	1.00	-0.15	-3.27	-2.96	24.81
Benzimidazole								
Immersion Ag								
Immersion Au/Pd								
Parylene						3.7		
Silicone								
Urethane				5.2		6.4		
Flux	-3.1	-2.9	-2.6	-2.4				
Benzi*Parylene								
Imm Ag*Parylene				5.2				
Imm Au/Pd*Parylene								
Benzi*Silicone				-3.6				
Imm Ag*Silicone								
Imm Au/Pd*Silicone								
Benzi*Urethane				-5.3				
Imm Ag* Urethane				-5.1				
Imm Au/Pd* Urethane	-5.8			-5.6	-4.9		-5.2	
Benzi*Flux								
Imm Ag*Flux		-3.8			-5.7	-3.5	-5.9	
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux					-5.0		-3.4	
Urethane*Flux					-3.3		-3.5	
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux				-8.2				
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux	6.7	11.0	5.9		14.0	8.5	12.7	
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								158
Imm Ag*Urethane*Flux		7.9			8.0		8.2	
Imm Au/Pd*Urethane*Flux	8.9	6.2			8.5		8.7	
Model R^2	11.6%	19.3%	7.8%	20.1%	18.6%	19.9%	14.3%	1.7%
Standard Deviation	5.34	4.83	5.24	4.84	4.80	5.73	5.22	213

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.10 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF SMT 50 MHz	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	-0.248	-0.125	0.0018	2.3	0.013	-0.124	0.0013	-6.182
Benzimidazole		0.036	0.0117			0.060	0.0168	
Immersion Ag	0.018		0.0213		0.020	0.060	0.0257	-46.7
Immersion Au/Pd		0.034	0.0104				0.0115	
Parylene		0.117				0.165		
Silicone		0.219	-0.0130			0.201		
Urethane		0.244	0.0335		0.0260	0.258	0.0362	
Flux								
Benzi*Parylene								
Imm Ag*Parylene								51.8
Imm Au/Pd*Parylene								
Benzi*Silicone				-3.7				
Imm Ag*Silicone								34.7
Imm Au/Pd*Silicone					-0.066			
Benzi*Urethane							-0.0173	
Imm Ag* Urethane	-0.025	-0.053	-0.0299		-0.040		-0.0352	49.6
Imm Au/Pd* Urethane								
Benzi*Flux								
Imm Ag*Flux		0.058				-0.044		
Imm Au/Pd*Flux						0.054		
Parylene*Flux								
Silicone*Flux				-3.0	-0.103			
Urethane*Flux								
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux				7.6	0.110			
Imm Ag*Silicone*Flux					0.099			
Imm Au/Pd*Silicone*Flux	0.032				0.187	0.093		
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								
Model R^2	8.6%	69.5%	48.3%	8.6%	31.0%	70.7%	41.5%	30.6%
Standard Deviation	0.030	0.065	0.017	3.5	0.039	0.069	0.0163	17.9

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.11 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF SMT f(-3dB)	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	278.5	-5.08	0.09	-10.6	-0.11	-5.78	-0.186	-23.69
Benzimidazole		0.77						
Immersion Ag					0.90		-0.71	
Immersion Au/Pd			-0.37	4.1			-0.63	
Parylene		4.98				6.1		
Silicone		7.95	-1.25		-1.80	7.8	-1.37	
Urethane	-1.68	8.67	3.18		3.25	9.7	3.36	
Flux								
Benzi*Parylene								
Imm Ag*Parylene					-1.64			
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone								125
Imm Au/Pd*Silicone					5.00		0.94	
Benzi*Urethane								
Imm Ag* Urethane	1.22		1.28				2.02	147
Imm Au/Pd* Urethane				-6.8				-94
Benzi*Flux								
Imm Ag*Flux								
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux								
Urethane*Flux								
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux			-1.03					
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux			-0.98					-194
Imm Au/Pd*Silicone*Flux					-5.50			
Benzi*Urethane*Flux								143
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								
Model R^2	28.0%	80.3%	81.2%	4.2%	46.7%	34.5%	82.2%	15.0%
Standard Deviation	1.04	1.74	0.91	8.8	2.09	5.10	0.93	135

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.12 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF SMT f(-40dB)	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	668.0	-4.11	-4.36	1.87	-3.21	-7.93	-3.99	-69.91
Benzimidazole	-5.7		-7.9	-6.5	-7.2		-8.3	
Immersion Ag	-11.3	-9.7	-12.1	-7.6	-11.2		-12.4	-275
Immersion Au/Pd	-8.0	-8.4	-11.6	-11.6	-11.2	-8.7	-12.2	
Parylene			3.3		3.0	9.3	2.9	
Silicone		-10.8						
Urethane	-10.3	-15.2	-3.3			6.9	-4.0	
Flux								
Benzi*Parylene								
Imm Ag*Parylene						-8.3		358
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone		15.9						240
Imm Au/Pd*Silicone		14.4	9.0	22.7		10.5		
Benzi*Urethane								
Imm Ag* Urethane	16.5	13.0	18.5		15.0		18.5	340
Imm Au/Pd* Urethane				10.1				
Benzi*Flux		-6.0						
Imm Ag*Flux								
Imm Au/Pd*Flux	-5.0							
Parylene*Flux								
Silicone*Flux								
Urethane*Flux								
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux	7.3							
Benzi*Silicone*Flux	-5.8							
Imm Ag*Silicone*Flux		-16.9						
Imm Au/Pd*Silicone*Flux		-14.3	-9.5	-20.8				
Benzi*Urethane*Flux	10.2	15.1	12.3		9.6		11.9	
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								
Model R^2	46.9%	35.1%	48.4%	14.0%	44.6%	16.0%	49.6%	10.8%
Standard Deviation	5.99	9.39	6.08	11.9	6.16	10.8	6.00	215

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.13 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF TLC 50 MHz Forward	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	-38.98	16.85	0.84	17.65	0.73	1.47	0.52	4.43
Benzimidazole	1.38	-5.7		-4.1				
Immersion Ag	1.78	-6.6						
Immersion Au/Pd	1.49							
Parylene		-9.1		-8.3				
Silicone	-6.09	-15.5		-7.5	0.99	1.04	1.22	
Urethane	-2.86	-16.4	1.28	-17.2				
Flux								
Benzi*Parylene								
Imm Ag*Parylene								
Imm Au/Pd*Parylene	-1.86					0.90	1.39	
Benzi*Silicone	2.58					-1.17		
Imm Ag*Silicone	2.84	9.2				-1.31		
Imm Au/Pd*Silicone	1.71				-2.00	-2.19	-2.12	
Benzi*Urethane	1.72							
Imm Ag* Urethane	-2.31	8.6						9.5
Imm Au/Pd* Urethane						1.87		
Benzi*Flux		7.3						
Imm Ag*Flux				-6.3				
Imm Au/Pd*Flux								
Parylene*Flux	-1.06							
Silicone*Flux					1.62			
Urethane*Flux								
Benzi*Parylene*Flux		-8.5						
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux		-9.1			-2.20			
Imm Ag*Silicone*Flux		-9.7			-2.13			
Imm Au/Pd*Silicone*Flux							3.1	
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux				9.0		1.25		
Imm Au/Pd*Urethane*Flux	1.61		-1.97			-2.05		
Model R^2	78.1%	53.0%	7.4%	53.4%	17.5%	20.9%	10.5%	3.1%
Standard Deviation	1.18	6.71	1.99	5.91	1.26	1.20	1.98	13.0

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.14 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF TLC 500 MHz Forward	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	-18.06	8.17	-0.24	9.72	-0.11	0.23	-0.21	0.05
Benzimidazole	-0.32	-3.6						
Immersion Ag	-0.50							-2.45
Immersion Au/Pd	-0.36			-3.6				
Parylene		-11.6		-10.5	-0.31			
Silicone	-2.46	-11.6		-10.8		-0.32		
Urethane	-1.64	-17.8	0.60	-18.9				
Flux								
Benzi*Parylene	-0.95							
Imm Ag*Parylene	-1.05	-5.2						
Imm Au/Pd*Parylene	-0.86							
Benzi*Silicone				-5.6				
Imm Ag*Silicone								3.1
Imm Au/Pd*Silicone					-0.84	-0.82	-0.66	
Benzi*Urethane		7.1				-0.75		
Imm Ag* Urethane	0.85							
Imm Au/Pd* Urethane								
Benzi*Flux								
Imm Ag*Flux								2.4
Imm Au/Pd*Flux				5.7				
Parylene*Flux								
Silicone*Flux					0.52		1.28	
Urethane*Flux						-0.57		
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux					-0.75		-1.40	5.6
Imm Ag*Silicone*Flux					-0.85		-1.08	
Imm Au/Pd*Silicone*Flux						1.42		
Benzi*Urethane*Flux	0.48					1.24		
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								
Model R^2	87.3%	51.2%	6.5%	52.6%	12.6%	19.4%	12.3%	13.2%
Standard Deviation	0.38	6.30	0.99	6.82	0.60	0.60	0.75	3.56

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.15 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF TLC 1 GHz Forward	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	-12.61	4.47	0.139	6.30	0.116	-1.31	-0.068	0.216
Benzimidazole								
Immersion Ag								
Immersion Au/Pd				-3.6				
Parylene		-9.3		-8.2		1.64		
Silicone	-2.35	-8.5		-10.3		1.28		
Urethane	-1.23	-12.2		-14.8		1.34		
Flux								
Benzi*Parylene	-0.92							
Imm Ag*Parylene	-0.97							
Imm Au/Pd*Parylene	-1.15							
Benzi*Silicone								
Imm Ag*Silicone								
Imm Au/Pd*Silicone					-0.76			
Benzi*Urethane								
Imm Ag* Urethane								
Imm Au/Pd* Urethane	0.45		-0.88					
Benzi*Flux								
Imm Ag*Flux								
Imm Au/Pd*Flux				5.5				
Parylene*Flux								
Silicone*Flux								
Urethane*Flux								
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux	0.98		-0.69		-0.92		-1.48	
Benzi*Silicone*Flux			-0.98					2.7
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux								-4.3
Imm Au/Pd*Urethane*Flux	-0.95							-4.7
Model R^2	83.6%	42.9%	12.9%	41.3%	10.0%	17.3%	4.1%	14.6%
Standard Deviation	0.41	5.30	0.755	6.76	0.720	1.39	1.26	2.97

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.16 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF TLC Rev Null Freq	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	651.4	21.76	7.484	-24.17	7.453	-34.81	6.635	-151.2
Benzimidazole	-4.6				1.37	6.1		
Immersion Ag	-3.8					7.2		
Immersion Au/Pd								
Parylene		-69.0		-81	-2.37	20.0		
Silicone	-17.4	-34.2	2.35		1.56	38.8	2.59	120
Urethane	-16.8	-40.9	-7.26		-6.88	45.3	-4.84	
Flux								
Benzi*Parylene	-4.1				4.60			
Imm Ag*Parylene	-6.5				3.70			
Imm Au/Pd*Parylene	-4.2					5.8		
Benzi*Silicone								
Imm Ag*Silicone	4.3			-166		-5.1		
Imm Au/Pd*Silicone	5.0		-7.10	-249	-4.60		-4.5	
Benzi*Urethane						-6.0		
Imm Ag* Urethane						-7.8		
Imm Au/Pd* Urethane	-3.8							
Benzi*Flux								
Imm Ag*Flux								
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux				-101			2.8	
Urethane*Flux								
Benzi*Parylene*Flux			-4.40		-4.60			
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux				224			-4.8	
Imm Au/Pd*Silicone*Flux			5.10	195				
Benzi*Urethane*Flux	6.4		-4.70					
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux			-4.60					
Model R^2	83.2%	39.7%	54.8%	18.1%	54.8%	91.1%	42.8%	4.0%
Standard Deviation	3.68	30.5	3.88	134	3.08	5.38	3.35	257

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.17 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: HF TLC Rev Null Resp	Branch Water							Salt Fog
Experimental Variables	**Pre-Test***	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	-48.59	18.86	-2.10	12.2	-0.24	16.04	-2.12	6.26
Benzimidazole								
Immersion Ag								9.4
Immersion Au/Pd	8.2	-6.5			-12.0		-8.3	
Parylene						-4.7		
Silicone	6.3	-13.7	-4.7		-10.5	-23.6	-4.7	
Urethane	6.6	-13.2		-6.9		-19.1		
Flux	4.3		-4.8		-10.8		-4.1	
Benzi*Parylene								
Imm Ag*Parylene		-10.0	-6.6		-8.8		-6.9	
Imm Au/Pd*Parylene								
Benzi*Silicone								-14.1
Imm Ag*Silicone								
Imm Au/Pd*Silicone	-10.3				20.1		11.1	
Benzi*Urethane								
Imm Ag* Urethane	-10.1							
Imm Au/Pd* Urethane	-14.1				20.6		10.7	
Benzi*Flux		-8.4						
Imm Ag*Flux								-9.9
Imm Au/Pd*Flux	-8.0				12.8			
Parylene*Flux					8.8			
Silicone*Flux	-5.3				13.5			
Urethane*Flux	-12.0	12.1	9.1		12.1		6.4	6.5
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux							17.7	
Benzi*Silicone*Flux								17.0
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux	12.5				-20.2			
Benzi*Urethane*Flux	9.4							
Imm Ag*Urethane*Flux	10.2	-12.0						
Imm Au/Pd*Urethane*Flux	18.1				-18.3			
Model R^2	29.5%	31.2%	18.4%	5.4%	29.2%	58.7%	22.0%	11.1%
Standard Deviation	5.08	10.3	9.26	12.6	9.11	8.30	8.85	13.0

*The Pre-Test column contains estimated coefficients for the raw Pre-Test measurements. The remaining columns contain the estimated coefficients for the deltas defined in Section 3.3.

Table C.18 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: 10-Mil Pads	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	11.81	6.02	12.77	4.03	11.20	4.07	9.89	5.45
Benzimidazole	0.32				1.70			
Immersion Ag			-0.51		-1.41			
Immersion Au/Pd								
Parylene	1.57	2.31		6.88	1.93	2.91	1.30	2.68
Silicone		3.10	-0.66	4.84	0.80	1.28	2.27	4.21
Urethane	0.70	5.18		6.97	1.56	6.97	2.82	4.10
Flux	1.49							
Benzi*Parylene					-4.14			
Imm Ag*Parylene			1.39		1.55			
Imm Au/Pd*Parylene								
Benzi*Silicone					-1.21			
Imm Ag*Silicone		1.08			1.87			
Imm Au/Pd*Silicone								
Benzi*Urethane					-1.73	-1.06		
Imm Ag* Urethane					1.42			
Imm Au/Pd* Urethane		-1.90						
Benzi*Flux								
Imm Ag*Flux					3.73			
Imm Au/Pd*Flux								
Parylene*Flux	-1.53						0.98	
Silicone*Flux	-2.27					2.89		
Urethane*Flux	-1.52							
Benzi*Parylene*Flux					1.72			
Imm Ag*Parylene*Flux					-3.33			
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux						-3.55		
Imm Ag*Silicone*Flux					-4.40	-2.46		
Imm Au/Pd*Silicone*Flux						-3.55		
Benzi*Urethane*Flux				-2.03				
Imm Ag*Urethane*Flux					-3.86			
Imm Au/Pd*Urethane*Flux								
Model R^2	68.5%	61.1%	13.8%	75.1%	48.4%	79.3%	36.7%	49.7%
Standard Deviation	0.57	1.45	1.14	1.64	0.94	1.34	1.45	1.73

Table C.19 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: PGA A	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	10.73	5.52	12.99	4.07	12.96	5.01	12.55	6.33
Benzimidazole	1.06							
Immersion Ag	0.49							
Immersion Au/Pd	0.45							
Parylene	0.85	1.71	-0.51	4.91	-1.62	1.95	-1.02	
Silicone	0.36	3.15	-0.88		-0.77	4.94	-0.52	
Urethane	0.49	2.87	-1.47	4.91	-1.32	6.62	-0.91	
Flux	2.27	0.81		0.72				
Benzi*Parylene	-0.62							
Imm Ag*Parylene			-0.79				-0.87	
Imm Au/Pd*Parylene					0.92			
Benzi*Silicone								1.45
Imm Ag*Silicone						-2.25		1.50
Imm Au/Pd*Silicone								
Benzi*Urethane	-0.73							
Imm Ag* Urethane								
Imm Au/Pd* Urethane				1.23				2.63
Benzi*Flux	-0.60							
Imm Ag*Flux	-0.68							
Imm Au/Pd*Flux	-0.60		0.48					
Parylene*Flux	-1.26			-1.31				
Silicone*Flux	-2.42	-3.03		-1.00	-0.47	-3.15		1.19
Urethane*Flux	-1.75							
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux			1.42		1.67		2.04	
Imm Au/Pd*Parylene*Flux	-0.99							
Benzi*Silicone*Flux		2.33				3.26		
Imm Ag*Silicone*Flux						3.90		
Imm Au/Pd*Silicone*Flux		2.62	-0.99					
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux								-2.90
Model R^2	74.4%	42.1%	46.3%	78.2%	44.6%	70.9%	27.2%	14.7%
Standard Deviation	0.41	1.48	0.66	1.38	0.70	1.66	0.78	2.09

Table C.20 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: PGA B	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	9.92	6.89	12.08	4.58	11.29	5.00	11.48	5.91
Benzimidazole	1.30	-1.64			0.39			
Immersion Ag	1.14							
Immersion Au/Pd	1.58							
Parylene	1.29		-0.73	2.41	-1.42	0.98	-1.27	
Silicone						3.67		
Urethane	1.38		-0.82	5.40		6.40		
Flux	3.08	-0.73	-1.51					
Benzi*Parylene	-0.58	1.92			-0.81			
Imm Ag*Parylene	-0.59							
Imm Au/Pd*Parylene	-1.44							
Benzi*Silicone	0.65	2.15						2.22
Imm Ag*Silicone	0.59					1.98		1.85
Imm Au/Pd*Silicone								
Benzi*Urethane	-1.33	1.40						
Imm Ag* Urethane	-1.29							
Imm Au/Pd* Urethane	-1.58							
Benzi*Flux	-0.93	1.15	2.60					
Imm Ag*Flux	-1.49	0.72	2.36	1.28				
Imm Au/Pd*Flux	-1.47		2.40					
Parylene*Flux	-1.91	1.08	2.45					
Silicone*Flux	-2.25							1.44
Urethane*Flux	-3.02	2.25	1.69					
Benzi*Parylene*Flux		-2.06	-3.42					
Imm Ag*Parylene*Flux			-2.36					
Imm Au/Pd*Parylene*Flux			-2.60					
Benzi*Silicone*Flux	-0.85		-2.05					
Imm Ag*Silicone*Flux			-1.56	-1.41		-2.46		
Imm Au/Pd*Silicone*Flux			-1.93					
Benzi*Urethane*Flux	0.95		-2.66					
Imm Ag*Urethane*Flux	1.64		-2.42					
Imm Au/Pd*Urethane*Flux	1.54	-1.40	-2.47					
Model R^2	87.6%	33.7%	33.1%	79.2%	40.0%	75.6%	26.9%	20.6%
Standard Deviation	0.31	1.21	0.94	1.19	0.90	1.47	0.91	1.94

Table C.21 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: Gull Wing	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	11.84	4.12	12.19	5.36	11.27	3.94	11.48	5.81
Benzimidazole	1.01							
Immersion Ag					-0.45		-1.06	
Immersion Au/Pd							-0.63	
Parylene		4.07	1.06	5.92		3.56		2.47
Silicone				4.66	0.67			3.49
Urethane			-1.54	2.90			-1.68	
Flux	0.46		-0.65		-0.49			
Benzi*Parylene								
Imm Ag*Parylene	1.27				1.45		2.23	
Imm Au/Pd*Parylene	0.54						1.83	
Benzi*Silicone								
Imm Ag*Silicone								
Imm Au/Pd*Silicone				-1.31				
Benzi*Urethane	-1.28							
Imm Ag* Urethane						2.89	1.69	
Imm Au/Pd* Urethane						1.74		3.20
Benzi*Flux								
Imm Ag*Flux			-0.82				-1.21	
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux								
Urethane*Flux	-0.77					1.00		
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux		2.28	1.68					
Imm Au/Pd*Parylene*Flux					1.47			
Benzi*Silicone*Flux	-1.67							
Imm Ag*Silicone*Flux	-0.84						2.12	
Imm Au/Pd*Silicone*Flux		1.51						
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux						-4.14	-2.2	
Imm Au/Pd*Urethane*Flux								
Model R^2	52.4%	69.0%	48.5%	63.5%	19.2%	64.8%	41.8	38.6%
Standard Deviation	0.59	1.30	1.15	1.69	1.03	1.17	1.42	1.96

Table C.22 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: Stranded Wire 1	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	11.64	0.0044	0.0033	0.0018	0.0010	0.0007	0.0031	0.013
Benzimidazole								
Immersion Ag								
Immersion Au/Pd								
Parylene					0.0017			
Silicone								
Urethane	2.23	-0.0038	-0.0026	-0.0010			-0.0018	
Flux							-0.0047	
Benzi*Parylene								
Imm Ag*Parylene								
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone								
Imm Au/Pd*Silicone								
Benzi*Urethane	-1.27							
Imm Ag* Urethane								0.074
Imm Au/Pd* Urethane								
Benzi*Flux								0.045
Imm Ag*Flux								
Imm Au/Pd*Flux								
Parylene*Flux				-0.0011	-0.0027			
Silicone*Flux								
Urethane*Flux						-0.0015		
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux								
Imm Au/Pd*Urethane*Flux					-0.0048			
Model R^2	22.4%	46.7%	15.9%	6.7%	11.1%	5.1%	6.4%	6.3%
Standard Deviation	1.63	0.0018	0.0026	0.0018	0.0031	0.0022	0.0043	0.086

Table C.23 Significant Coefficients for the GLM Analyses by Test Time

Electrical Response: Stranded Wire 2	Branch Water							Salt Fog
Experimental Variables	**Pre-Test**	**Vertical Position**	**Post Vertical Test**	**Horiz: Backside Up**	**Post Horiz Test**	**Horiz: Comps Up**	**Post Comps Up**	**83 Cycles**
Constant	25.35	-0.0004	-0.0014	-0.0020	-0.0019	-0.0027	-0.0019	0.004
Benzimidazole								
Immersion Ag								
Immersion Au/Pd								
Parylene								
Silicone								
Urethane						0.0032	0.0046	
Flux								
Benzi*Parylene								
Imm Ag*Parylene								
Imm Au/Pd*Parylene								
Benzi*Silicone								
Imm Ag*Silicone								
Imm Au/Pd*Silicone								
Benzi*Urethane								
Imm Ag* Urethane								0.127
Imm Au/Pd* Urethane								
Benzi*Flux								0.062
Imm Ag*Flux								
Imm Au/Pd*Flux								
Parylene*Flux								
Silicone*Flux								
Urethane*Flux		-0.0036	-0.0039		-0.0029	-0.0065	-0.0088	-0.050
Benzi*Parylene*Flux								
Imm Ag*Parylene*Flux								
Imm Au/Pd*Parylene*Flux								
Benzi*Silicone*Flux								
Imm Ag*Silicone*Flux								
Imm Au/Pd*Silicone*Flux								
Benzi*Urethane*Flux								
Imm Ag*Urethane*Flux	9.80		-0.0055	-0.0110	-0.0070			
Imm Au/Pd*Urethane*Flux								0.114
Model R^2	10.2%	5.7%	13.5%	8.9%	12.7%	10.2%	14.5%	16.5%
Standard Deviation	5.10	0.00488	0.0050	0.0062	0.0050	0.0049	0.0054	0.076