Day 2		Day 3
19mA		19mA
Copper		
Frequency (Hz)	Voltage (mV)	Frequency
62500	67.29	62500
60500	63.94	60500
58500	61.22	58500
56500		56500
54500	54.54	54500
52500		52500
50500		50500
48500		48500
46500		46500
44500		44500
42500		42500
40500		40500
38500		38500
36500		36500
34500		34500
32500		32500
30500		30500
28500		28500
26500		26500
24500		24500
22500		22500
20500		20500
18500		18500
16500		16500
14500		14500
12500		12500
10500		10500
8500		8500
6500	6.69	6500

### Voltage (mV)

61.04

57.92

55.13

52.44

49.66

47.03

44.81

42.37

40.06

38.21

36.18

34.18

32.39

30.57

28.96

27.32

25.55

24.17 22.41

21.07

19.67 18.17

16.4

14.91

13.52

11.93

10.17

9.57

6.31

#### 19mA

#### Aluminium

Frequency	Voltage (	(mV)
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equency	Voitage (iii	• /
62500	45.28	
60500	42.15	
58500	40.86	
56500	38.26	
54500	37.05	
52500	35.55	
50500	33.71	
48500	32.55	
46500	30.74	
44500	30.32	
42500	27.81	DEVIATION FROM LINEAR
40500	27.21	
38500	25.36	
36500	24.66	
34500	22.94	
32500	22.28	
30500		
28500	19.96	
26500	18.45	
24500	17.87	
22500	16.19	
20500	15.36	
18500	14.09	
16500	13.24	
14500	_	
12500		
10500		
8500	7.93	
6500	6.35	

#### 19mA

#### Brass

Brass	
Frequency (Hz)	Voltage (mV)
62500	79.47
60500	75.63
58500	71.96
56500	68.39
54500	65.51
52500	62.41
50500	59.44
48500	56.76
46500	53.85
44500	51.21
42500	48.79
40500	46.62
38500	44.17
36500	42.21
34500	39.74
32500	37.72
30500	35.52
28500	33.64
26500	31.72
24500	29.99
22500	28.05
20500	26.2
18500	24.33
16500	22.23
14500	20.43
12500	18.54
10500	16.26
8500	14.24
6500	12.04

### 19mA

Steel

Steel			
Frequency	Voltage (mV)		
62500	712.9		
60500			
58500	660.7		
56500			
54500	611.2		
52500			
50500	563.5		
48500			
46500	518.9		
44500			
42500	478.89		
40500			
38500	443.16		
36500			
34500	406.94		
32500			
30500	372.14		
28500			
26500	337.07		
24500			
22500	306.78		
20500			
18500	255.17		
16500			
14500	237.59		
12500			
10500	200.63		
8500			
6500	154.21		

Frequency	6.5		Frequency 15
	Current (mA)	Voltage (mV)	Current (m Voltage (mV)
	18.06	6.15	18.033 13.34
	18.30	02 6.31	18.331 13.53
	18.54	12 6.41	18.632 13.83
	18.68	6.49	18.907 14.02
	18.88	6.58	19.398 14.25
	18.92	29 6.61	19.792 14.56
	19.37	75 6.82	19.938 14.67
	19.59	97 6.93	
	19.68	6.97	
	19.93	7.09	

# Frequency Voltage Uncertainty

6.5	0.49
15	0.68
30	1.31
40	1.74

Frequency	30		Frequency	40	
(	Current (m Vo	ltage (mV)		Current (m Vo	oltage (mV)
	18.252	24.93		18.151	32.72
	18.647	25.48		18.242	32.57
	18.915	25.86		18.665	33.59
	19.213	26.14		18.905	33.85
	19.574	26.67		19.355	34.66
	19.729	26.89		19.689	35.26
	19.822	27.01		19.954	35.74

F=10			F=20		
	Current (mA)	Voltage (mV)		Current (m V	oltage (mV)
	18.112	9.28		18.205	16.01
	18.45	9.49		18.454	16.23
	18.836	9.75		18.674	16.45
	19.169	9.99		19.155	17.03
	19.454	10.19		19.333	17.27
	19.754	10.39		19.729	17.68
	19.919	10.57		19.873	17.81

## Frequency Voltage Uncertainty

10	0.07
20	0.11
30	0.12
40	0.16

F=30			F=40		
	Current (m Vo	oltage (mV)		Current (m Vo	oltage (mV)
	18.063	21.98		18.103	28.76
	18.37	22.36		18.391	29.13
	18.701	22.79		18.559	29.41
	18.984	23.14		18.806	29.81
	19.153	23.29		19.31	30.61
	19.355	23.54		19.609	31.09

19.959 31.64

19.617 23.85

F=10			F=20		
	Current (mA)	Voltage (mV)		Current (m V	oltage (mV)
	18.178	15.23		18.211	24.86
	18.214	15.26		18.349	25.06
	18.515	15.51		18.979	25.9
	18.839	15.78		19.231	26.24
	19.377	16.23		19.589	26.73
	19.797	16.63		19.914	27.18

## Frequency Voltage Uncertainty

F=30	F=40					
	Current (m Vol	tage (mV)		Current (m Voltage (mV)		
	18.131	34.02		18.199	44.21	
	18.277	32.29		18.455	44.83	
	18.509	34.73		18.943	46.04	
	19.292	36.15		19.145	46.5	
	19.574	36.68		19.607	47.65	
	19.743	37		19.812	48.15	

F=10			F=20			F=30
	Current (m Voltage (mV)		Current (m Voltage (mV)			
	18.018	185.98		18.306	276.15	
	18.515	191.61		18.426	278.09	
	18.624	192.79		18.952	286.89	
	18.744	194.16		19.218	291.29	
	19.028	197.41		19.412	294.49	
	19.249	199.88		19.706	299.38	

19.912 302.86

## Frequency Voltage Uncertainty

19.847 206.79

10

20

30

40

Current (m V	oltage (mV)	Current (m Voltage (m V	Current (m Voltage (mV)		
18.149	352.51	18.013 433.76			
18.256	354.74	18.294 441.17			
18.567	361.45	18.731 453.14			
18.797	366.37	18.925 458.34			
19.307	377.29	19.175 465.02			
19.684	385.52	19.316 468.84			
19.755	387.01	19.886 484.38			