



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



FRONT VIEW

POLARIS POOL SYSTEMS, INC.

POOL/SPA CONTROLLER

MODEL: SOL 1000

FCC CLASS B - RADIATED EMISSIONS - 12-1-00

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



REAR VIEW

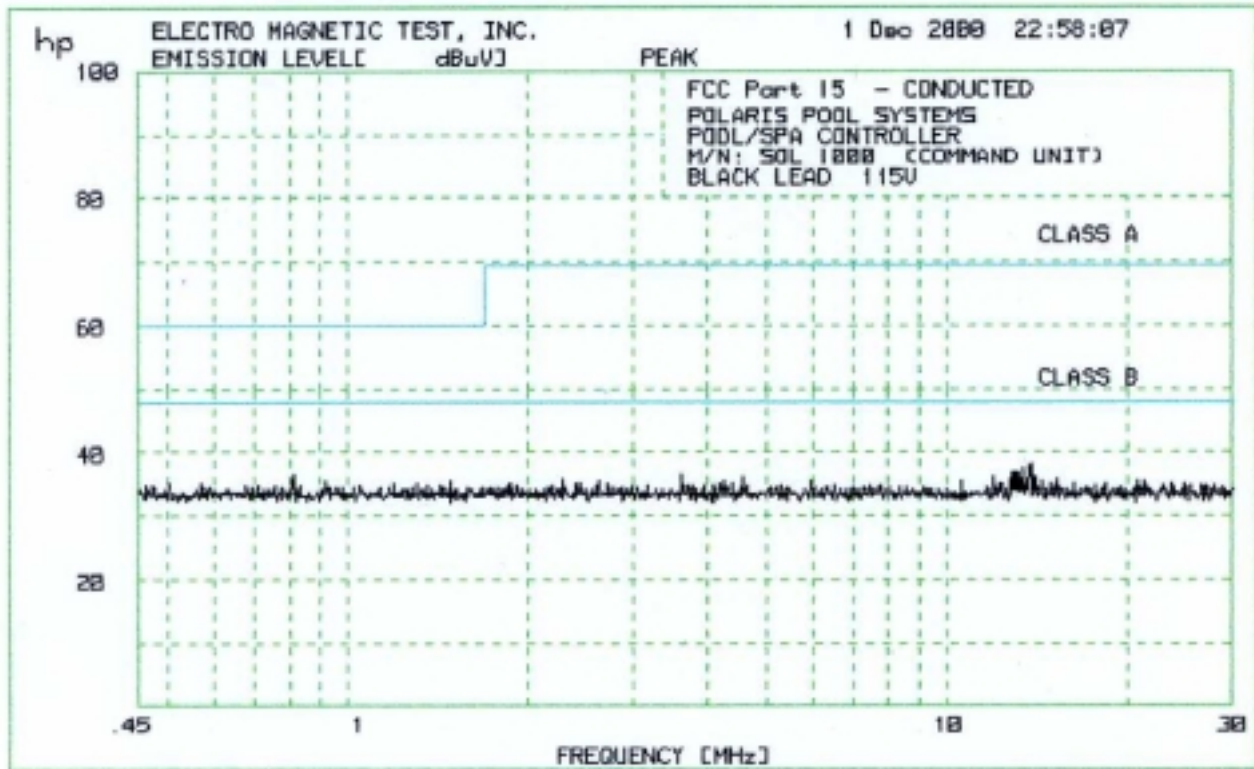
POLARIS POOL SYSTEMS, INC.

POOL/SPA CONTROLLER

MODEL: SOL 1000

FCC CLASS B - RADIATED EMISSIONS - 12-1-00

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



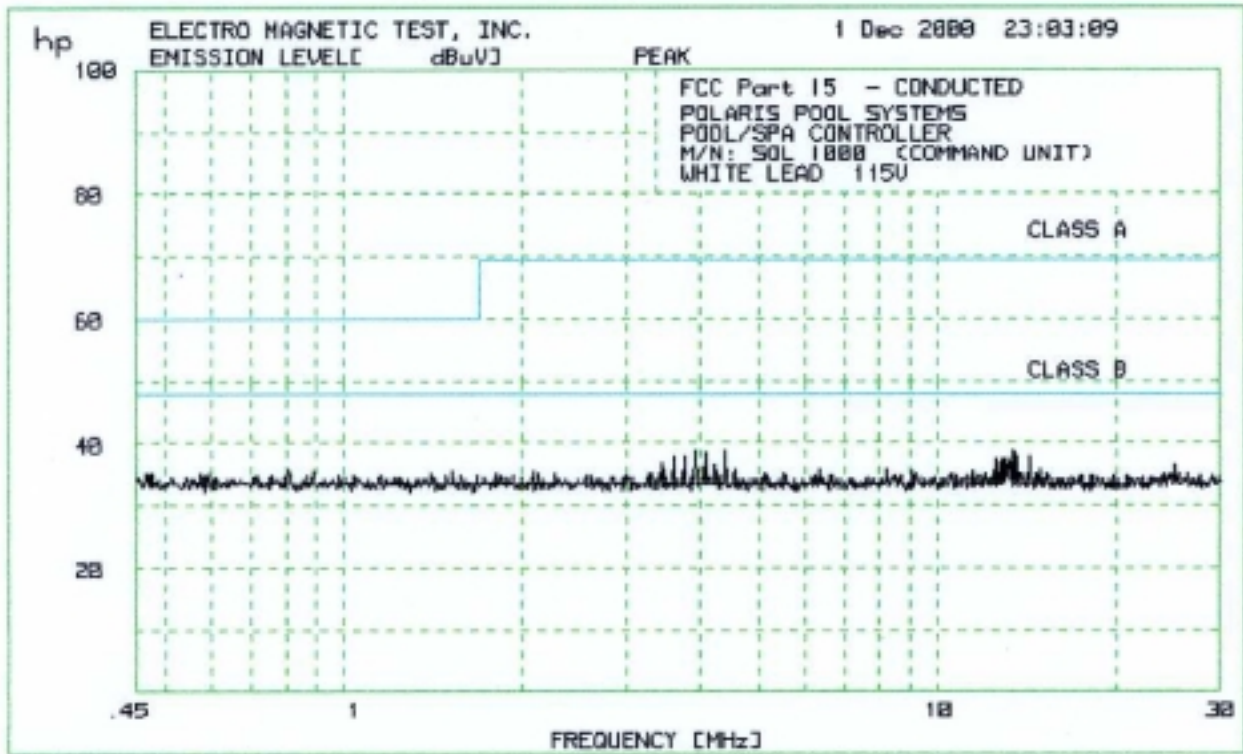
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```
1. CONDUCTED WITH PRESELECTOR
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```
1.1 FCC Part 15 - CONDUCTED
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=====
45 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB
```

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.86	38.1	-9.9
2	13.75	37.8	-10.2
3	13.41	37.5	-10.5
4	12.91	36.9	-11.1
5	13.13	36.8	-11.2
6	13.24	36.8	-11.2
7	.8165	36.3	-11.7
8	3.636	36.3	-11.7
9	4.58	36.1	-11.9
10	12.02	36	-12.0
11	14.16	36	-12.0
12	13.98	35.9	-12.1
13	15.27	35.8	-12.2
14	2.301	35.6	-12.4
15	12.8	35.6	-12.4
16	13.63	35.6	-12.4
17	4.282	35.5	-12.5
18	20.83	35.5	-12.5
19	21.45	35.5	-12.5
20	.926	35.4	-12.6
21	1.494	35.4	-12.6
22	14.46	35.4	-12.6
23	2.632	35.3	-12.7
24	5.94	35.3	-12.7
25	10.64	35.3	-12.7
26	1.312	35.2	-12.8
27	2.461	35.2	-12.8
28	12.33	35.2	-12.8
29	23.72	35.2	-12.8
30	2.733	35.1	-12.9
31	4.41	35.1	-12.9
32	24.84	35.1	-12.9
33	4.211	35	-13.0
34	.5082	34.9	-13.1
35	.574	34.9	-13.1
36	1.201	34.9	-13.1
37	1.882	34.9	-13.1
38	2.42	34.9	-13.1
39	14.95	34.9	-13.1
40	16.33	34.9	-13.1
41	18.44	34.9	-13.1
42	.4752	34.8	-13.2
43	.7603	34.8	-13.2
44	1.93	34.8	-13.2
45	2.998	34.8	-13.2



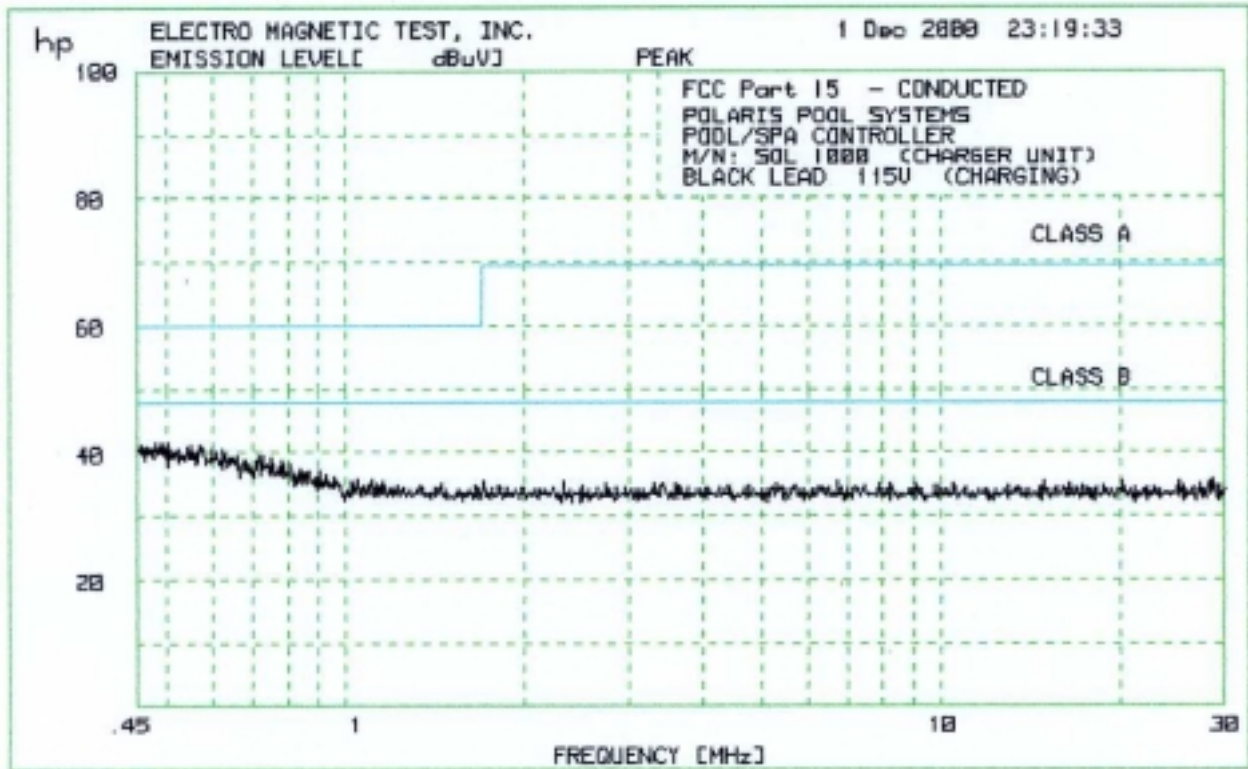
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```
1. CONDUCTED WITH PRESELECTOR
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1.1 FCC Part 15 - CONDUCTED
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=====
45 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB
```

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.41	38.9	-9.1
2	3.921	38.6	-9.4
3	4.41	38.6	-9.4
4	13.52	38.4	-9.6
5	4.089	38.3	-9.7
6	3.621	37.8	-10.2
7	3.776	37.7	-10.3
8	14.34	37.7	-10.3
9	13.69	37.6	-10.4
10	12.59	37.4	-10.6
11	12.91	37.3	-10.7
12	13.02	37.3	-10.7
13	13.24	37.3	-10.7
14	3.457	36.9	-11.1
15	12.75	36.9	-11.1
16	4.246	36.5	-11.5
17	25.05	36.5	-11.5
18	.8097	35.8	-12.2
19	14.95	35.8	-12.2
20	4.58	35.6	-12.4
21	6.379	35.6	-12.4
22	8.274	35.6	-12.4
23	.8917	35.5	-12.5
24	11.48	35.5	-12.5
25	1.532	35.4	-12.6
26	2.099	35.4	-12.6
27	9.075	35.3	-12.7
28	2.134	35.2	-12.8
29	14.22	35.2	-12.8
30	24.73	35.2	-12.8
31	.5788	35.1	-12.9
32	3.315	35.1	-12.9
33	12.12	35.1	-12.9
34	24.22	35.1	-12.9
35	26.34	35.1	-12.9
36	.4732	35	-13.0
37	.4772	35	-13.0
38	5.15	35	-13.0
39	13.86	35	-13.0
40	14.64	35	-13.0
41	.4654	34.9	-13.1
42	.5936	34.9	-13.1
43	1.415	34.9	-13.1
44	1.812	34.9	-13.1
45	2.282	34.9	-13.1



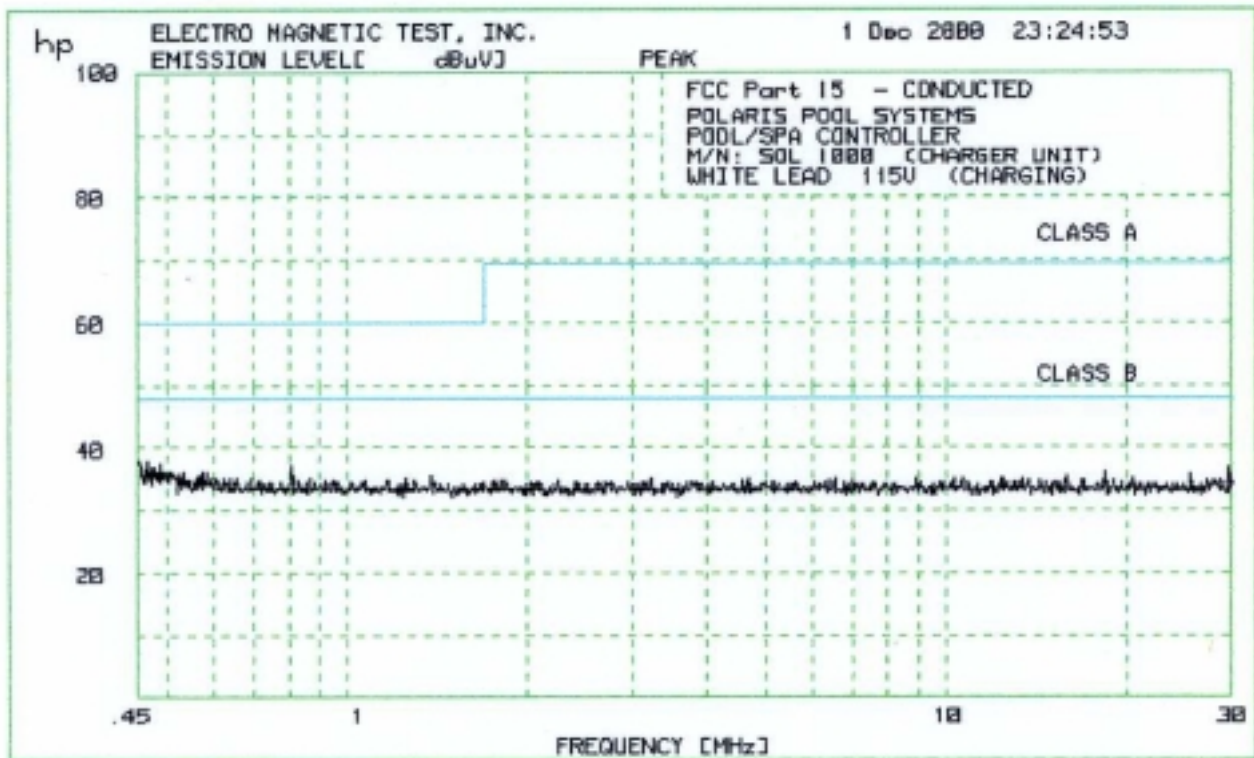
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1. CONDUCTED WITH PRESELECTOR
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1.1 FCC Part 15 - CONDUCTED
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=====
45 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB
```

PEAK#	FREQ (MHz)	(dBUV)	DELTA
1	.4956	41.4	-6.6
2	.4812	41.3	-6.7
3	.5082	41.3	-6.7
4	.5527	41.2	-6.8
5	.4557	41.1	-6.9
6	.574	41	-7.0
7	.4595	40.9	-7.1
8	.5458	40.9	-7.1
9	.4673	40.8	-7.2
10	.4914	40.7	-7.3
11	.4752	40.6	-7.4
12	.4713	40.5	-7.5
13	.504	40.5	-7.5
14	.6268	40.4	-7.6
15	.5256	40.3	-7.7
16	.5837	40.3	-7.7
17	.5986	40.3	-7.7
18	.5692	40.2	-7.8
19	.6087	40.1	-7.9
20	.5574	40	-8.0
21	.5345	39.7	-8.3
22	.5147	39.6	-8.4
23	.5621	39.6	-8.4
24	.662	39.5	-8.5
25	.729	39.4	-8.6
26	.7169	39.3	-8.7
27	.6428	39.2	-8.8
28	.651	39.1	-8.9
29	.7571	39.1	-8.9
30	.5886	38.9	-9.1
31	.6564	38.9	-9.1
32	.676	38.9	-9.1
33	.6846	38.9	-9.1
34	.6164	38.7	-9.3
35	.6216	38.7	-9.3
36	.7862	38.6	-9.4
37	.8131	38.1	-9.9
38	.7445	38	-10.0
39	.7352	37.8	-10.2
40	.702	37.6	-10.4
41	.7764	37.6	-10.4
42	.8444	37.5	-10.5
43	.6932	37.4	-10.6
44	.8732	37.1	-10.9
45	.9106	37.1	-10.9



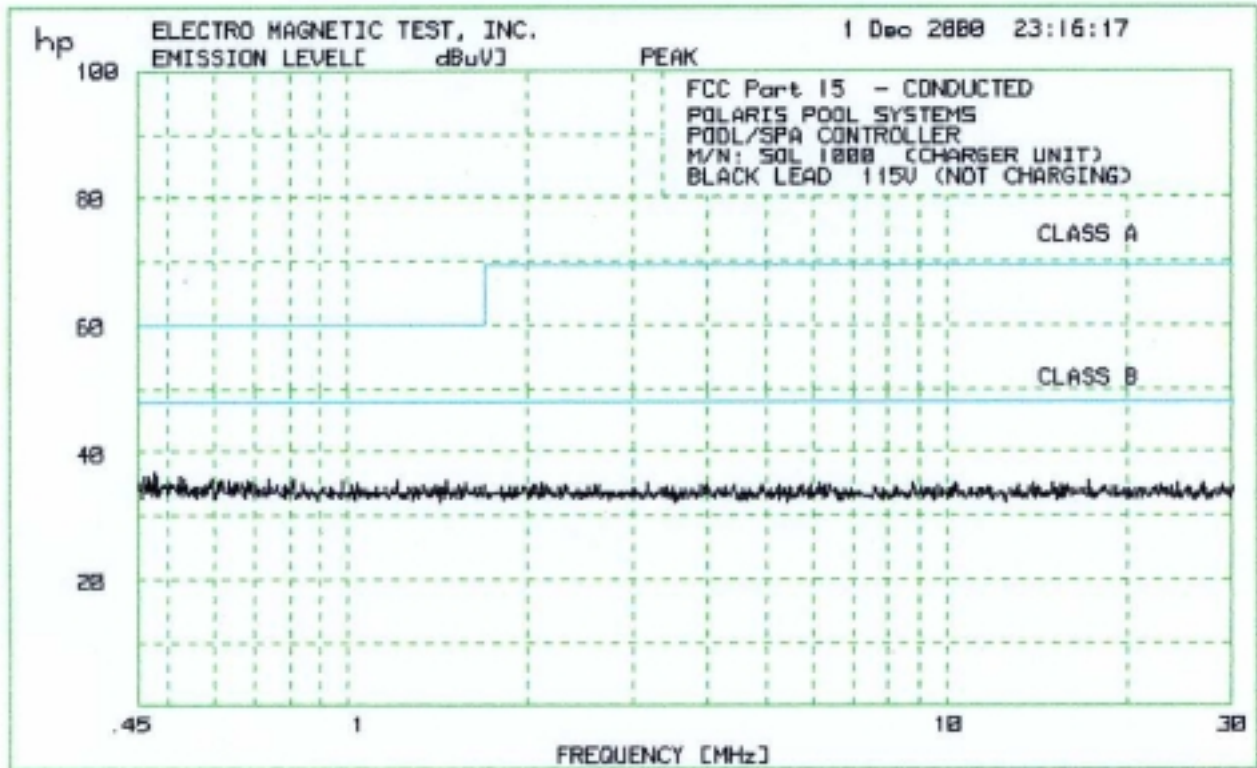
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ELECTRO MAGNETIC TEST, INC.      1 Dec 2000  23:24:53
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1. CONDUCTED WITH PRESELECTOR
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1.1 FCC Part 15 - CONDUCTED
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=====
45 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB
```

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	.4673	37.9	-10.1
2	.4914	37.4	-10.6
3	.8131	37	-11.0
4	.4732	36.9	-11.1
5	29.62	36.8	-11.2
6	.4772	36.7	-11.3
7	.4615	36.5	-11.5
8	.4833	36.2	-11.8
9	18.52	36.2	-11.8
10	.4873	36.1	-11.9
11	.5061	36.1	-11.9
12	.4998	36	-12.0
13	.5104	36	-12.0
14	.5345	36	-12.0
15	.5788	36	-12.0
16	.5861	35.9	-12.1
17	25.58	35.7	-12.3
18	.5256	35.6	-12.4
19	.519	35.5	-12.5
20	15.99	35.5	-12.5
21	1.391	35.4	-12.6
22	.5692	35.3	-12.7
23	.6036	35.2	-12.8
24	6.542	35.2	-12.8
25	10.69	35.2	-12.8
26	13.41	35.2	-12.8
27	.6268	35.1	-12.9
28	.6401	35.1	-12.9
29	.6932	35.1	-12.9
30	8.961	35.1	-12.9
31	12.38	35.1	-12.9
32	1.263	35	-13.0
33	4.696	35	-13.0
34	12.48	35	-13.0
35	20.57	35	-13.0
36	.5621	34.9	-13.1
37	.5936	34.9	-13.1
38	.6564	34.9	-13.1
39	.8768	34.9	-13.1
40	3.246	34.9	-13.1
41	10.38	34.9	-13.1
42	1.077	34.8	-13.2
43	1.176	34.8	-13.2
44	6.406	34.8	-13.2
45	6.996	34.8	-13.2



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ELECTRO MAGNETIC TEST, INC. 1 Dec 2000 23:16:17

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1. CONDUCTED WITH PRESELECTOR

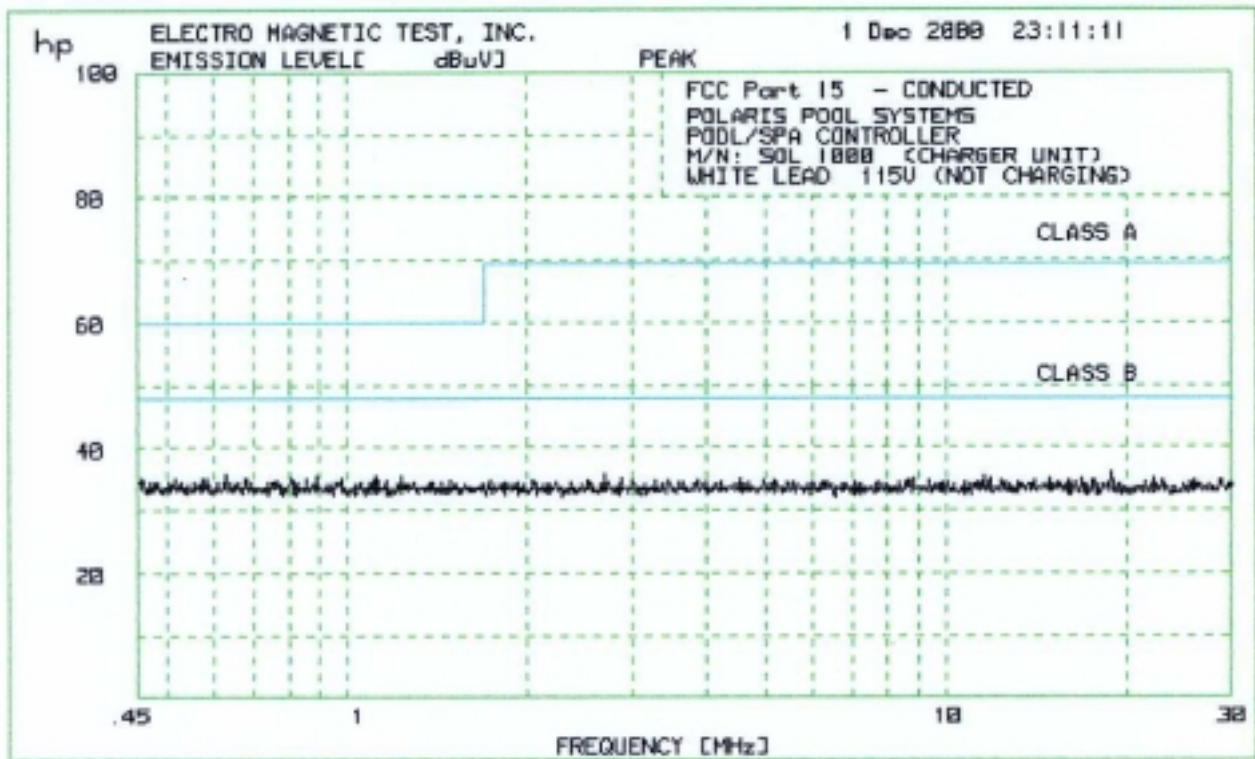
1.1 FCC Part 15 - CONDUCTED

=====

45 highest Peaks above -50 dB of Limit Line #2

peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	.4792	36.6	-11.4
2	.4673	36.2	-11.8
3	.4595	36.1	-11.9
4	.5278	35.9	-12.1
5	.5936	35.8	-12.2
6	.5367	35.7	-12.3
7	.8165	35.7	-12.3
8	.7445	35.6	-12.4
9	.6216	35.5	-12.5
10	.6846	35.5	-12.5
11	.6164	35.4	-12.6
12	.6374	35.4	-12.6
13	.4713	35.3	-12.7
14	.9861	35.3	-12.7
15	1.216	35.3	-12.7
16	1.469	35.3	-12.7
17	17.32	35.3	-12.7
18	.6704	35.2	-12.8
19	.5061	35.1	-12.9
20	.6113	35.1	-12.9
21	.6962	35.1	-12.9
22	.8097	35.1	-12.9
23	1.578	35.1	-12.9
24	8.812	35.1	-12.9
25	10.34	35.1	-12.9
26	26.79	35.1	-12.9
27	6.169	35	-13.0
28	14.04	35	-13.0
29	.6537	34.9	-13.1
30	.8479	34.9	-13.1
31	1.046	34.9	-13.1
32	2.125	34.9	-13.1
33	3.192	34.9	-13.1
34	15.08	34.9	-13.1
35	24.43	34.9	-13.1
36	.4752	34.8	-13.2
37	.4935	34.8	-13.2
38	.4998	34.8	-13.2
39	.5147	34.8	-13.2
40	1.02	34.8	-13.2
41	2.311	34.8	-13.2
42	3.987	34.8	-13.2
43	4.96	34.8	-13.2
44	9.705	34.8	-13.2
45	15.99	34.8	-13.2



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ELECTRO MAGNETIC TEST, INC.      1 Dec 2000  23:11:11
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1. CONDUCTED WITH PRESELECTOR
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1.1 FCC Part 15 - CONDUCTED
```

```
=====
45 highest Peaks above -50 dB of Limit Line #2
```

```
peak criteria = .1 dB
```

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	18.91	36.1	-11.9
2	.6295	35.8	-12.2
3	2.711	35.8	-12.2
4	.8954	35.4	-12.6
5	1.128	35.4	-12.6
6	1.242	35.3	-12.7
7	11.57	35.3	-12.7
8	.4538	35.2	-12.8
9	11.87	35.2	-12.8
10	16.88	35.2	-12.8
11	.6817	35.1	-12.9
12	.8131	35.1	-12.9
13	.9861	35.1	-12.9
14	8.849	35.1	-12.9
15	14.89	35.1	-12.9
16	.5788	35	-13.0
17	.676	35	-13.0
18	4.56	35	-13.0
19	22.18	35	-13.0
20	.5168	34.9	-13.1
21	.5886	34.9	-13.1
22	.8586	34.9	-13.1
23	2.887	34.9	-13.1
24	1.737	34.8	-13.2
25	2.055	34.8	-13.2
26	8.702	34.8	-13.2
27	12.43	34.8	-13.2
28	14.1	34.8	-13.2
29	16.12	34.8	-13.2
30	.4576	34.7	-13.3
31	1.5	34.7	-13.3
32	4.98	34.7	-13.3
33	8.629	34.7	-13.3
34	9.424	34.7	-13.3
35	17.61	34.7	-13.3
36	.7699	34.6	-13.4
37	1.114	34.6	-13.4
38	1.137	34.6	-13.4
39	1.171	34.6	-13.4
40	2.535	34.6	-13.4
41	2.998	34.6	-13.4
42	3.288	34.6	-13.4
43	3.457	34.6	-13.4
44	3.856	34.6	-13.4
45	5.172	34.6	-13.4



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FRONT VIEW

POLARIS POOL SYSTEMS, INC.

POOL/SPA CONTROLLER

MODEL: SOL 1000

FCC CLASS B - CONDUCTED EMISSIONS - 12-1-00

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



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1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



REAR VIEW

POLARIS POOL SYSTEMS, INC.

POOL/SPA CONTROLLER

MODEL: SOL 1000

FCC CLASS B - CONDUCTED EMISSIONS - 12-1-00

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



ELECTRO MAGNETIC TEST, INC.

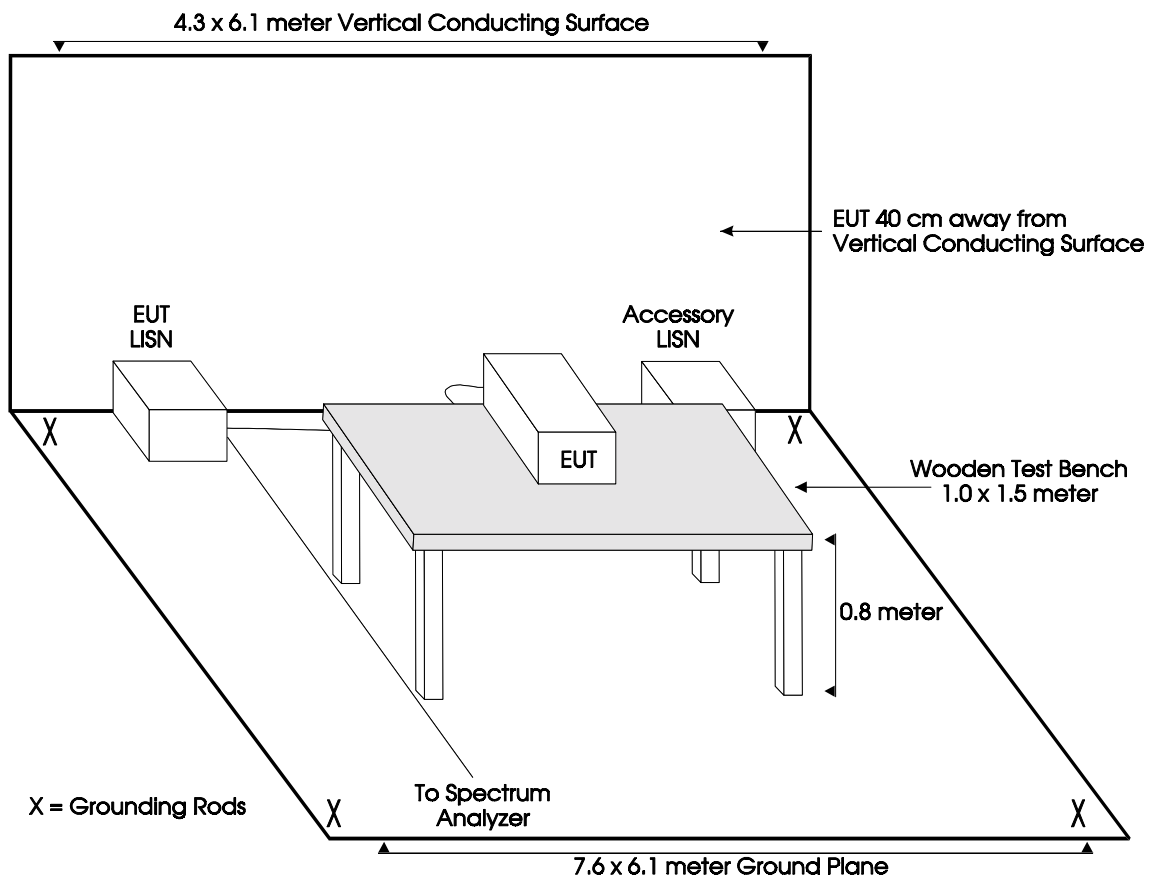
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

APPENDIX B

TEST SETUP DIAGRAMS

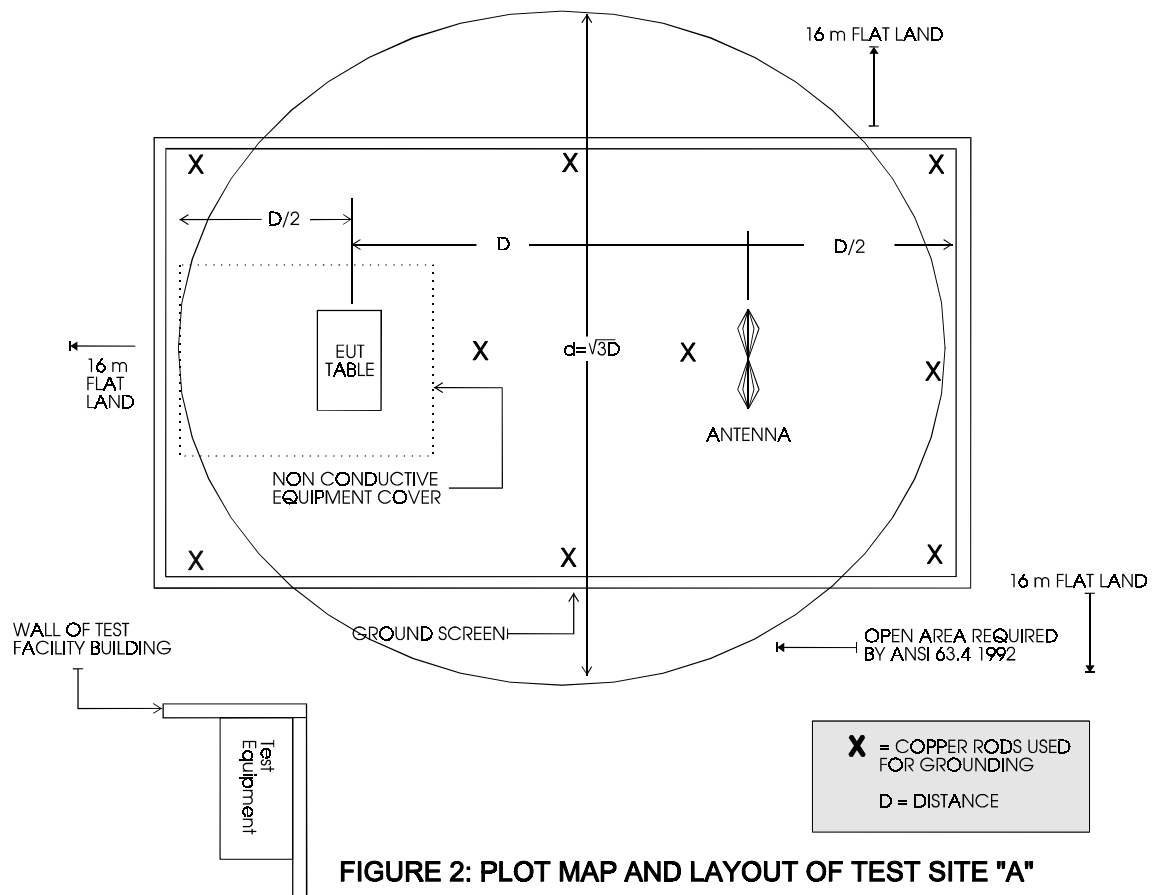
EMT**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**FIGURE 1 - CONDUCTED EMISSIONS TEST SETUP SITE A**

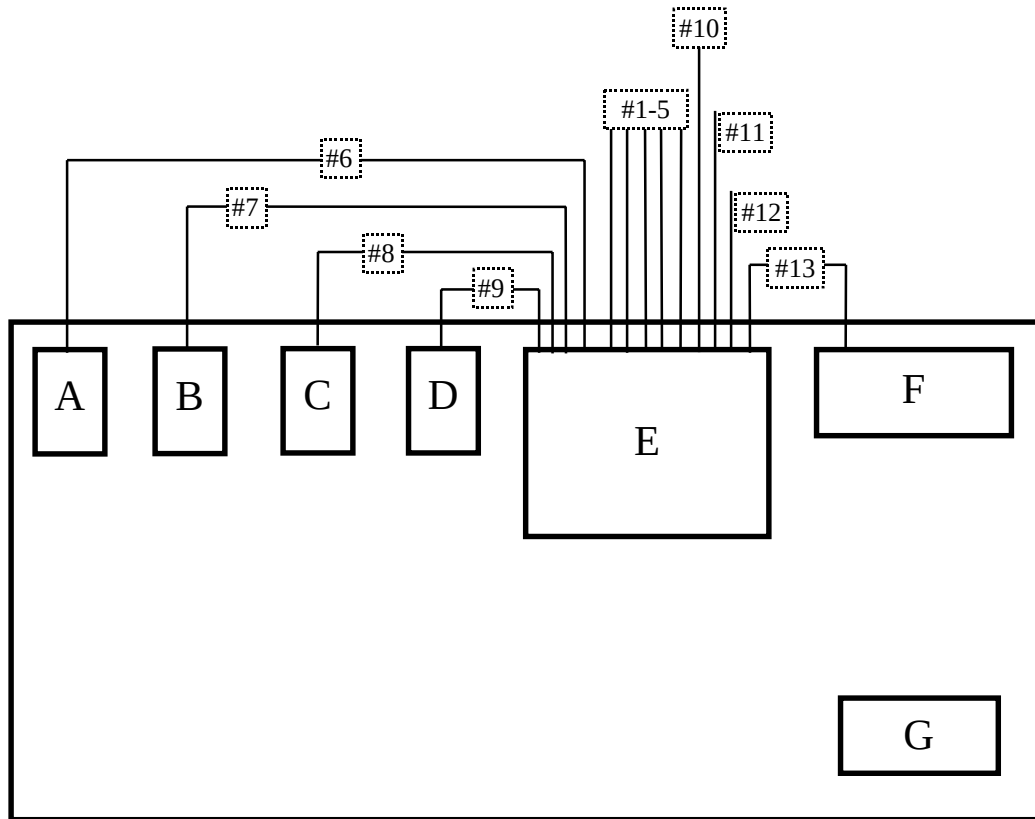
EMT**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

**FIGURE 2: PLOT MAP AND LAYOUT OF TEST SITE "A"**

EMT**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



Wooden Test Table

A. Valve Actuator #1	E. EUT (Command Center)
B. Valve Actuator #2	F. EUT (Battery Charger)
C. Valve Actuator #3	G. EUT (Remote Control)
D. Valve Actuator #4	

FIGURE 3: EQUIPMENT CONFIGURATION BLOCK DIAGRAM



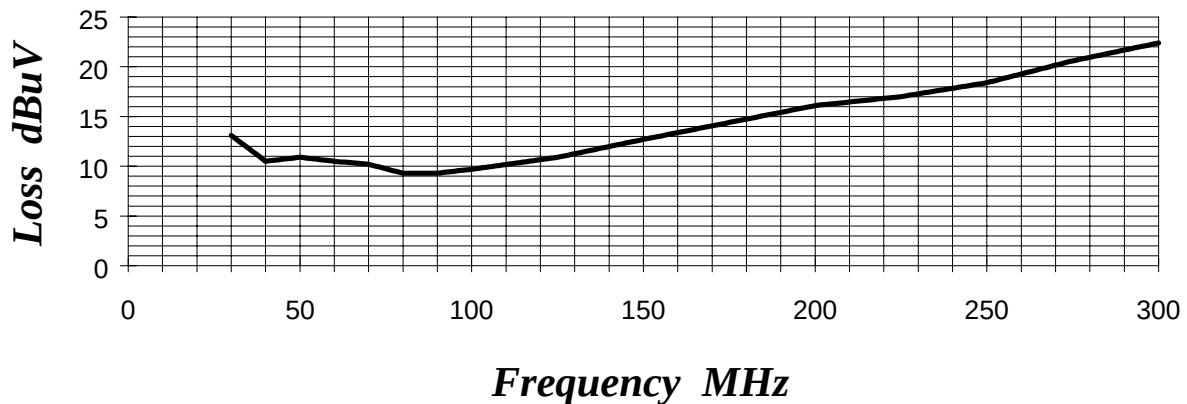
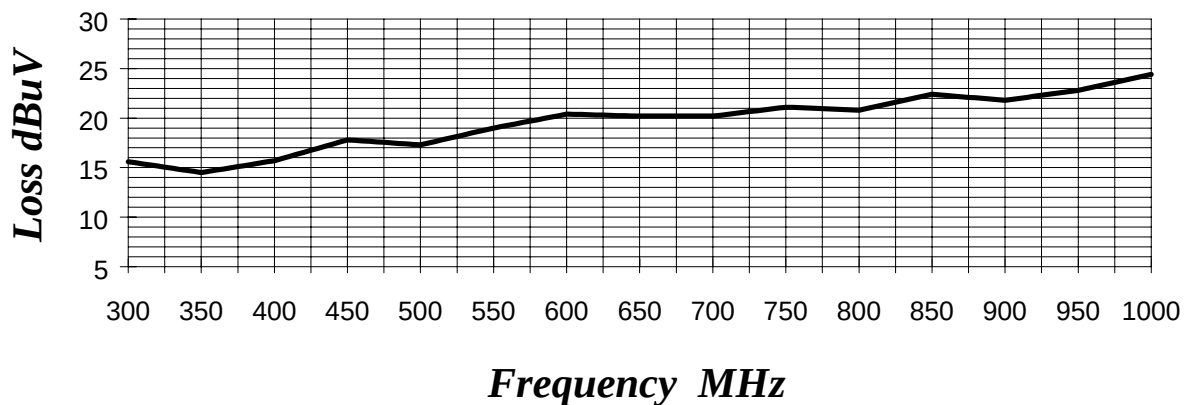
ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

APPENDIX C

ANTENNA FACTORS AND EFFECTIVE GAIN FACTORS

**ELECTRO MAGNETIC TEST, INC.**1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

EFFECTIVE 11-11-00**LAB "A" BICONICAL ANTENNA****AB-100 S/N: 1557****EFFECTIVE 11-11-00****LAB "A" LOG PERIODIC ANTENNA****AL-100 S/N: 16037**

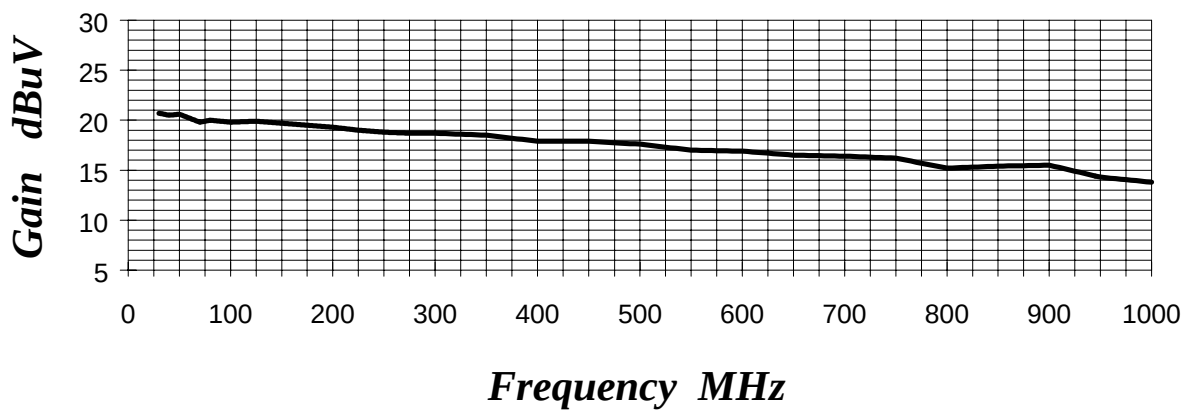
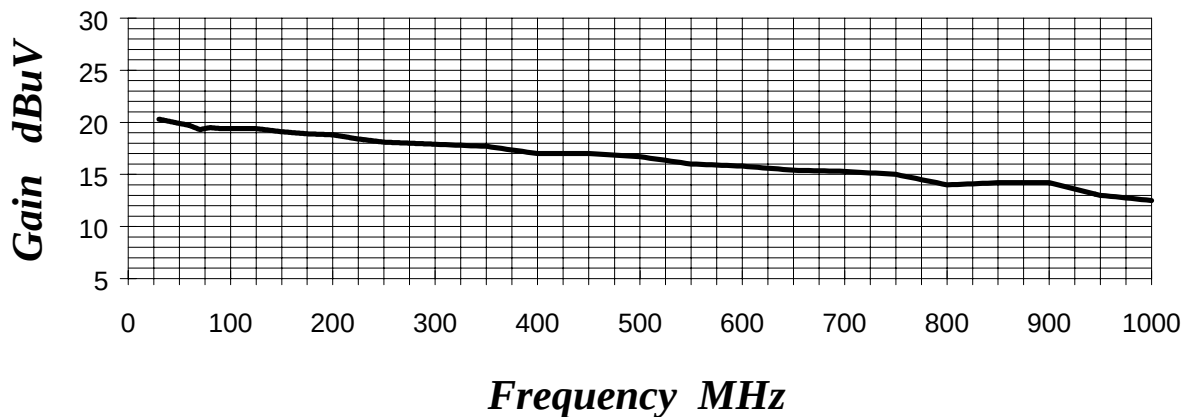

ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

COM-POWER HORN ANTENNA MODEL: AH-118, S/N: 10062

FREQUENCY MHz	GAIN dBi	FACTOR dB
1000	5.2	25.0
1250	4.6	27.5
1500	4.8	28.9
1750	6.1	29.0
2000	4.6	31.6
2500	8.3	29.9
3000	8.0	31.8
3500	8.9	32.2
4000	7.5	34.8
4500	10.9	32.4
5000	8.1	36.1
6000	9.1	36.7
7000	10.3	36.8
8000	10.9	37.4
9000	8.4	40.9
10000	11.4	38.8
11000	15.0	36.0
12000	13.2	38.6
13000	12.9	39.6
14000	10.5	42.6
15000	9.2	44.5
16000	9.2	45.1
17000	10.1	44.7
18000	10.8	44.5

**ELECTRO MAGNETIC TEST, INC.**1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

LAB "A" EFFECTIVE 11-11-00**PREAMPLIFIER M/N: PA-102 S/N: 1482****EFFECTIVE GAIN AT 3 METERS****PREAMPLIFIER M/N: PA-102 S/N: 1482****EFFECTIVE GAIN AT 10 METERS**


ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

LAB "A" EFFECTIVE: 10/7/00
COM-POWER PREAMPLIFIER MODEL: PA-122, S/N: 2113
EFFECTIVE GAIN AT 3 METERS
Effective Gain = Preamplifier Gain - Cable Loss

FREQUENCY MHz	PREAMPLIFIER GAIN dB	CABLE LOSS dB	EFFECTIVE GAIN dB
1000	34.3	4.8	29.5
1250	33.7	5.3	28.4
1500	33.5	5.7	27.8
1750	33.6	6.4	27.2
2000	33.8	7.1	26.7
2500	33.5	7.4	26.1
3000	32.7	7.7	25.0
3500	32.2	9.1	23.1
4000	30.8	10.0	20.8
4500	30.8	10.6	20.2
5000	31.1	10.7	20.4
6000	33.0	12.4	20.6
7000	33.5	13.7	19.8
8000	32.1	15.5	16.6
9000	30.8	15.8	15.0
10000	29.9	16.5	13.4
11000	32.3	17.8	14.5
12000	32.5	18.6	13.9
13000	33.7	19.8	13.9
14000	33.0	20.8	12.2
15000	30.5	21.2	9.3
16000	31.0	21.3	9.7
17000	33.4	22.3	11.1
18000	32.2	23.6	8.6