

Exhibit B

Measured Antenna Pattern and Measurement Procedures
WMFO Directional Antenna Replacement

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October 21, 2004

Mr. Michael Leclair
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Fax: (617) 353-0155

Ref: System No. 759 11848, K53 32 187 FM Antenna Array
Broadband FM, Circular Polarized Antenna System
WMFO - Antenna Measurement System

Dear Michael,

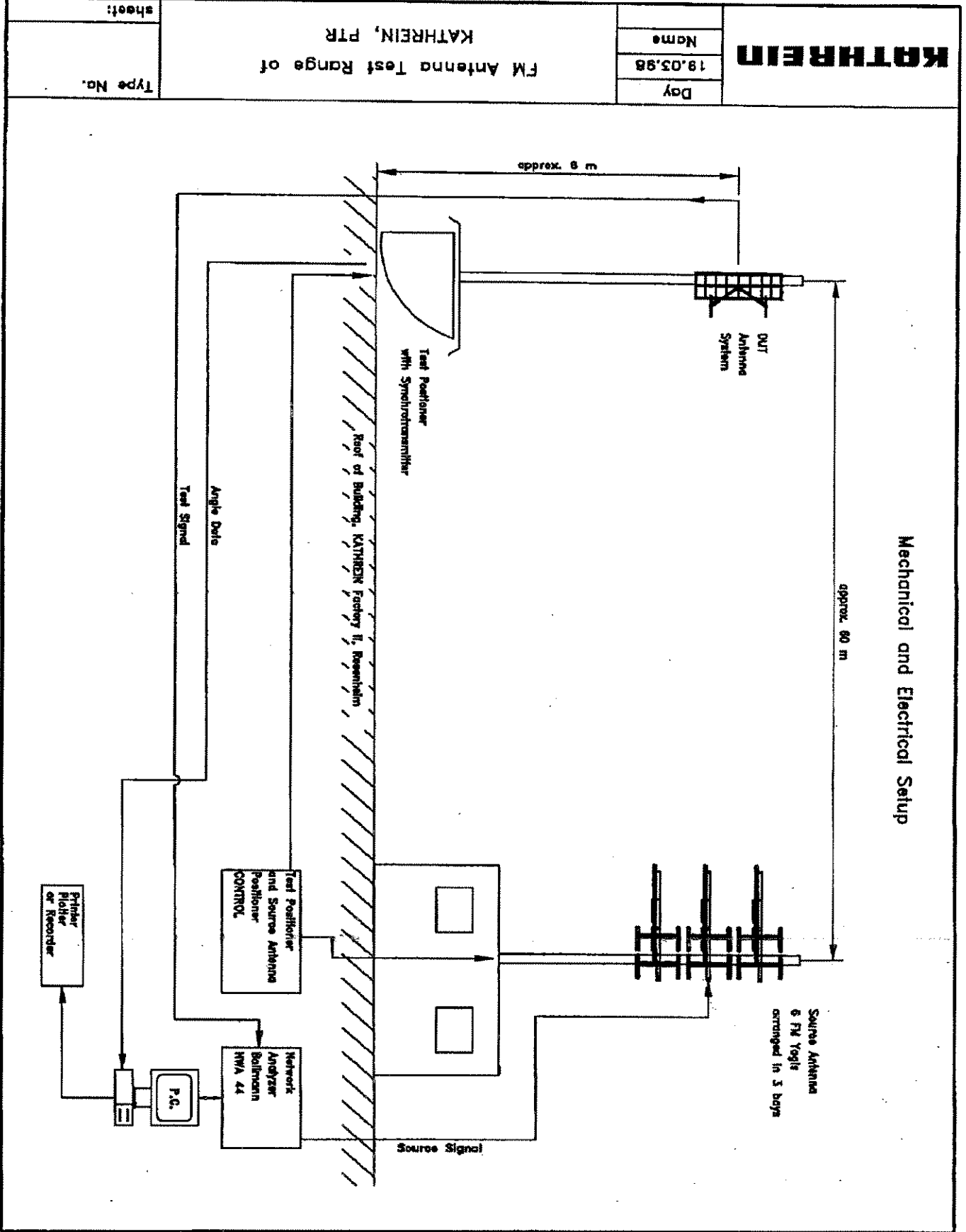
The azimuth patterns for the above referenced antenna system were measured at the Kathrein-Werke KG factory (Plant II) in Rosenheim, Germany. The measuring system consists of a full scale measuring system located on the roof of the Kathrein factory. Patterns taken at the actual operating frequency, not scaled. The measurement system consists of a Rohde & Schwarz ZVRE vector network analyzer, a test positioner with synchrotransmitter (provides azimuth data of the test tower) and a PC to record the resulting data. The tower section used in this test was a Rohn 25 identical to WMFO's Rohn 25 tower that the system is installed on. The antenna system was comprised of a single bay. The power feeding and phase of the array was identical to that of the actual installation. A mechanical drawing of the test system and mounting dimensions is included herein.

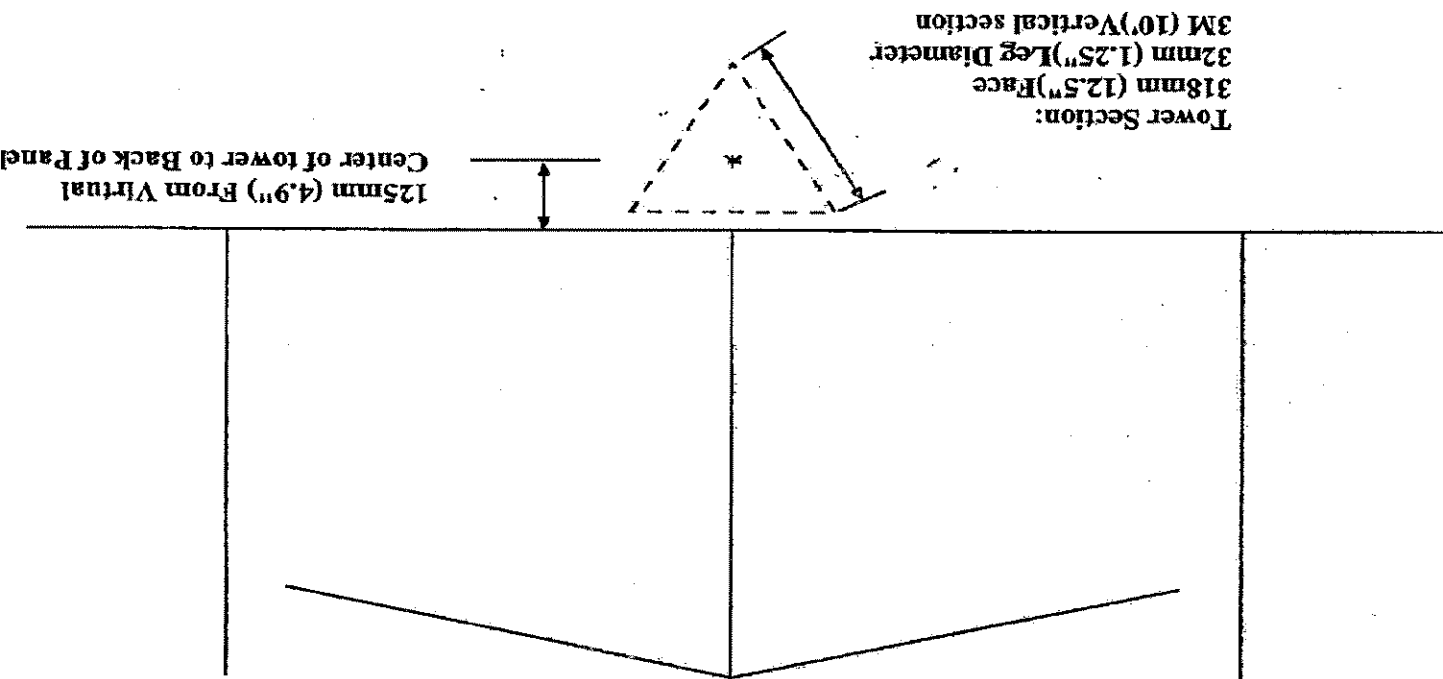
Mr. Manfred Schlenker, Senior Antenna Engineer, at the Kathrein Company, supervised the antenna pattern testing. Mr. Schlenker, Dipl.-Ing. is a graduate in civil engineering with a technical degree obtained in 1968 at the Technical University in Munich, Germany.

Respectfully submitted by:

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Kathrein Inc., Scala Division
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MWB/ly





The panel is centered on the above described Tower Section and mounted 125mm (4.9") from the virtual center of the tower to the back of the Panel.

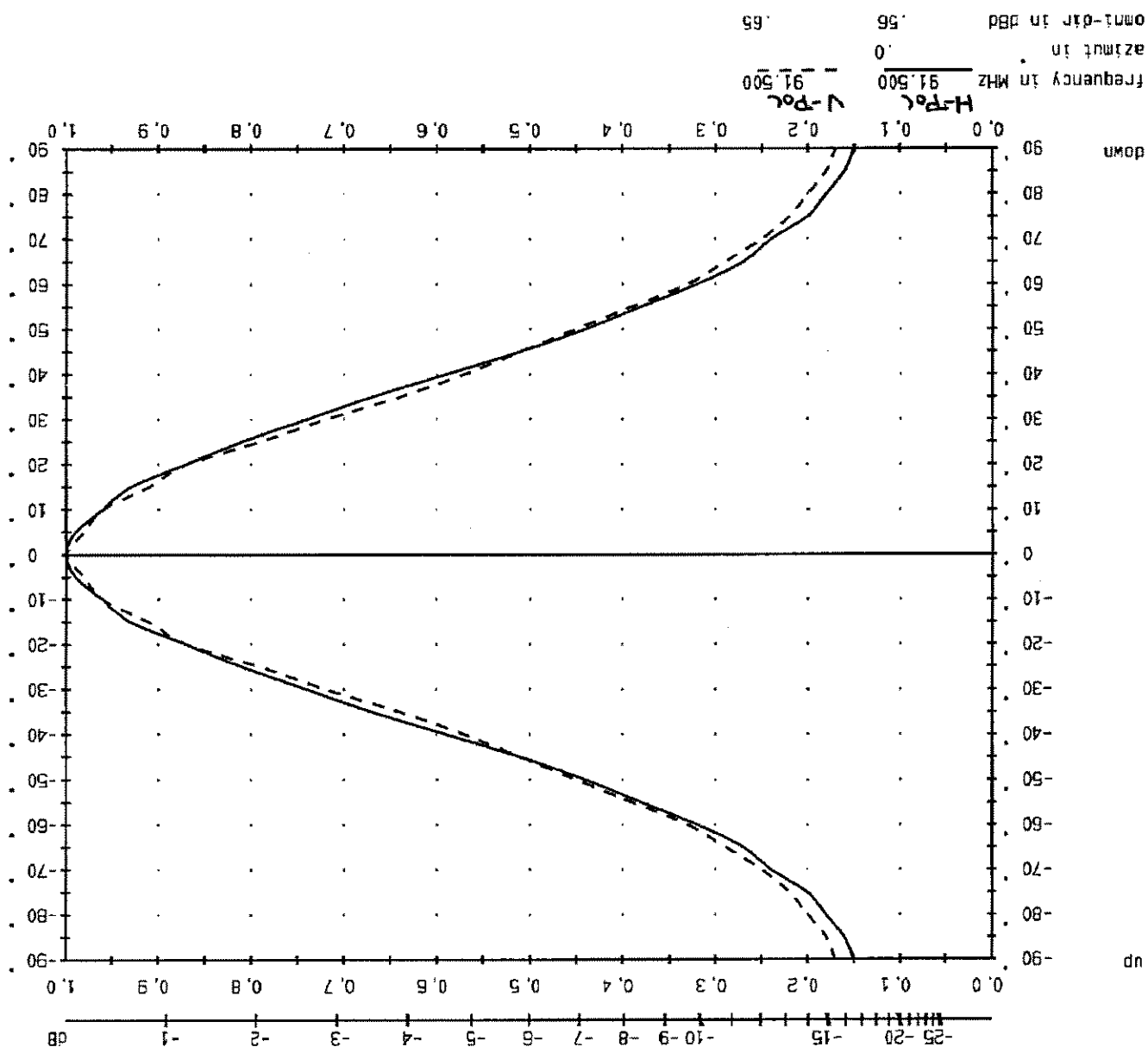
1 meter
mast size in mm 318. direction 0.
offset north 0.
0. east 0.

K53 32 187 FM Antenna Array WMFO Tufts University System 759 11848

S C A L A		Mounting Dimensions for Measured pattern	BL:
Medford Oregon			
Typ Nr.			

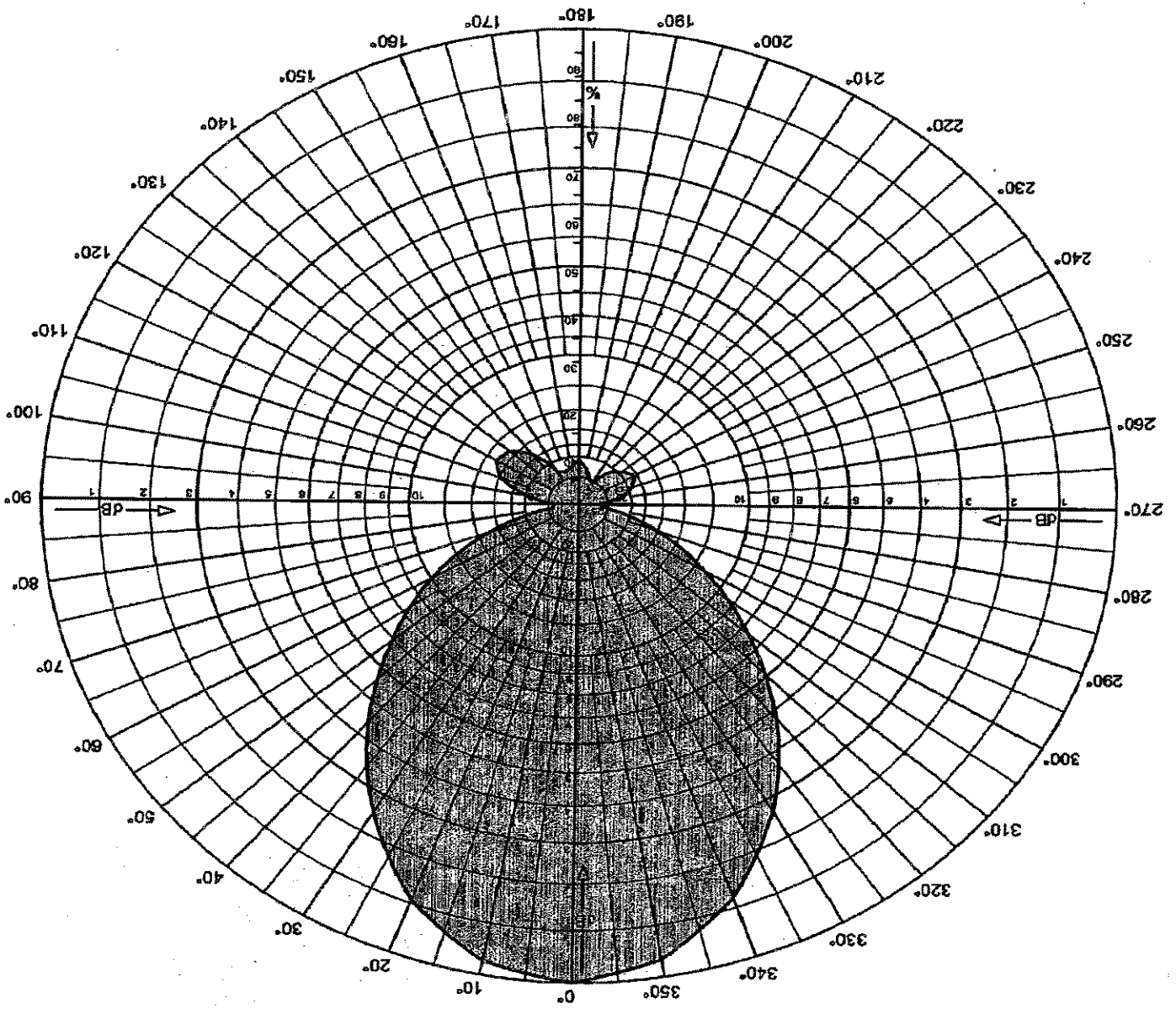
S C A L A Medford Oregon MB 19.11.2 16:44		one K53 32 187 CP Panel antenna Frequency: 91.5 Mhz. Typ No. B11	
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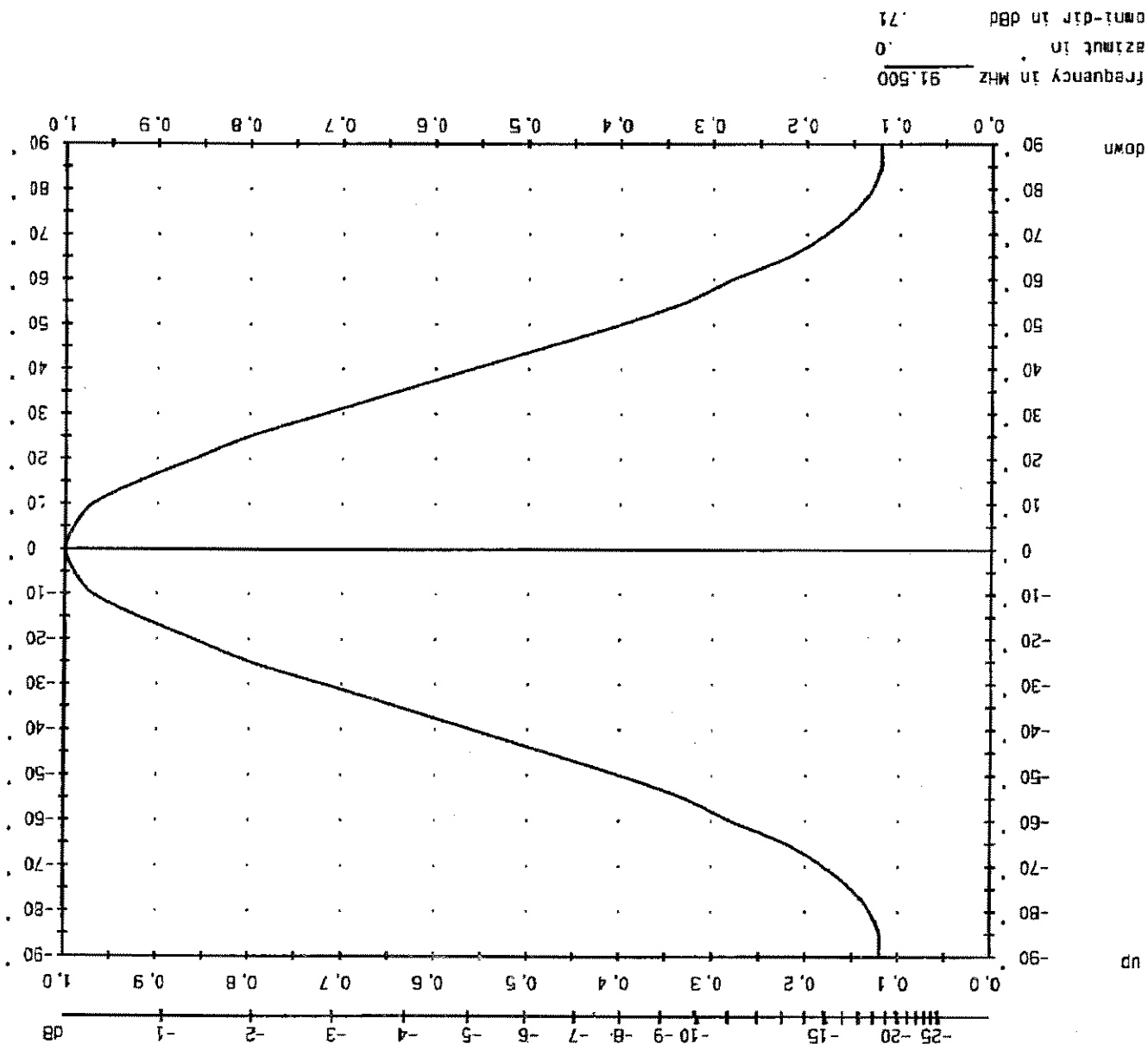
WMFO-FM Medford, Massachusetts.



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WMFO - FM
 freq: 91.5 MHz
 Single K53 32 187 panel Antenna
 attached to Rohn-25 tower
 Horizontal Polarization
 Horizontal Plane



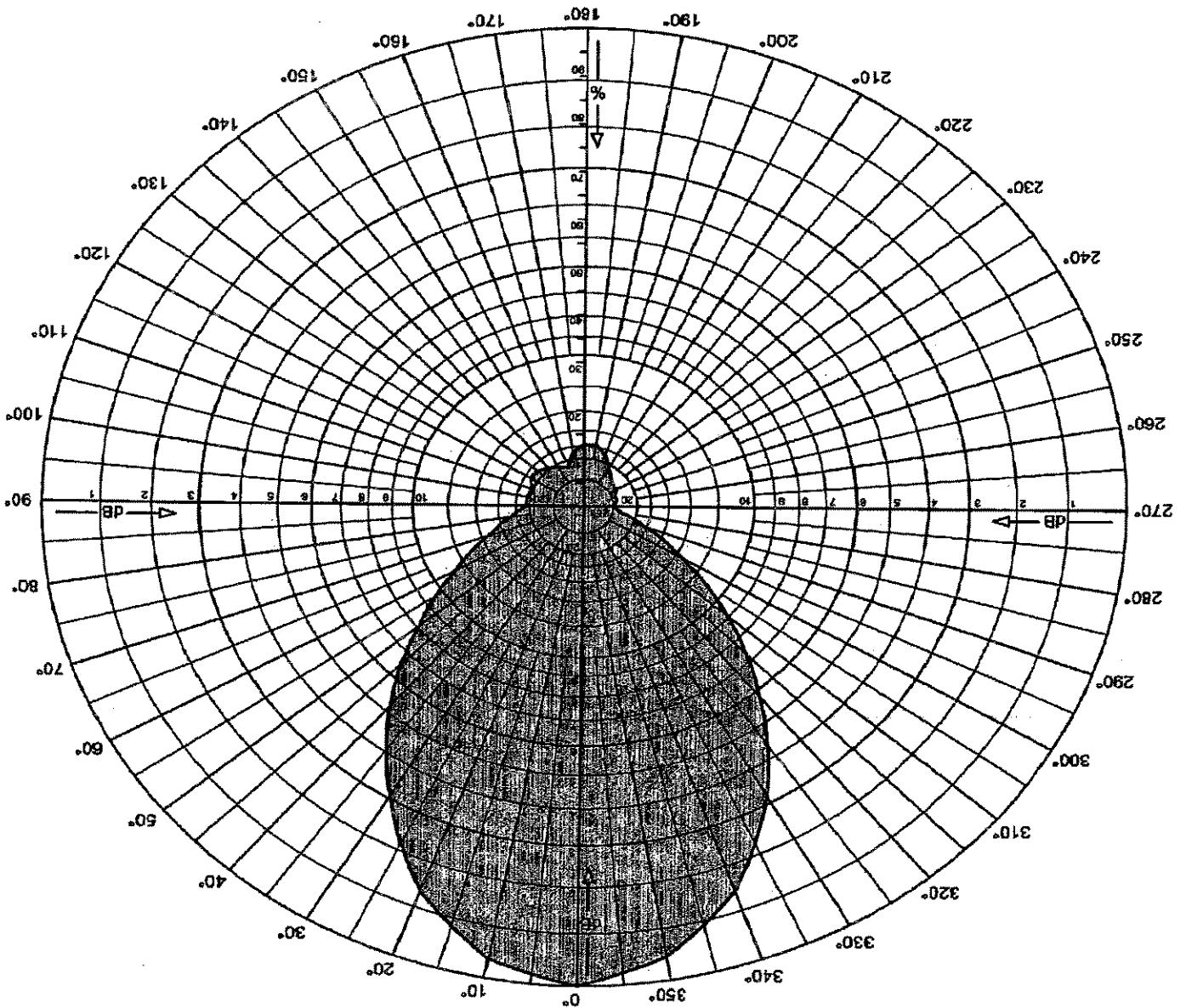


frequency in MHz 91.500
azimuth in degrees 0
omni-dir in dB 71

Tufts University WMFO

S C A L A		Medford Oregon	WB 2.12.4 15:51
One K53 32 187 attached to Rohn-25 tower		freq: 91.5 MHz. Horizontal polarization	
Typ. Nr.	81.0		

WMFO - FM
freq: 91.5 MHz
Single K53 32 187 panel Antenna
attached to Rohn-25 tower
Vertical Polarization
Horizontal Plane





SCALA DIVISION

Vertical Polarization

Horizontal Plane

MMFO - FM
 Freq: 91.5 MHz
 Single K53 32 187 panel Antenna
 attached to Rohm-25 tower

Angle Field	Rel.dB	dbd	PwrMult	Angle Field	Rel.dB	dbd	PwrMult
0	1.000	0.00	0.00	180	0.128	-17.86	0.02
5	0.980	-0.18	0.96	185	0.130	-17.75	0.02
10	0.960	-0.35	0.92	190	0.131	-17.65	0.02
15	0.909	-0.83	0.83	195	0.123	-18.24	0.02
20	0.857	-1.34	0.73	200	0.114	-18.86	0.01
25	0.780	-2.16	0.61	205	0.104	-19.70	0.01
30	0.703	-3.06	0.49	210	0.093	-20.63	0.01
35	0.627	-4.06	0.39	215	0.086	-21.36	0.01
40	0.550	-5.19	0.30	220	0.078	-22.16	0.01
45	0.472	-6.53	0.22	225	0.075	-22.56	0.01
50	0.393	-8.11	0.15	230	0.071	-22.97	0.01
55	0.332	-9.58	0.11	235	0.071	-22.97	0.01
60	0.271	-11.34	0.07	240	0.071	-22.97	0.01
65	0.228	-12.82	0.05	245	0.068	-23.41	0.00
70	0.186	-14.61	0.03	250	0.064	-23.88	0.00
75	0.161	-15.86	0.03	255	0.064	-23.88	0.00
80	0.136	-17.33	0.02	260	0.064	-23.88	0.00
85	0.122	-18.31	0.01	265	0.060	-24.36	0.00
90	0.107	-19.41	0.01	270	0.057	-24.88	0.00
95	0.107	-19.41	0.01	275	0.064	-23.88	0.00
100	0.107	-19.41	0.01	280	0.071	-22.97	0.01
105	0.105	-19.62	0.01	285	0.096	-20.35	0.01
110	0.102	-19.83	0.01	290	0.121	-18.34	0.01
115	0.108	-19.33	0.01	295	0.164	-15.70	0.03
120	0.114	-18.86	0.01	300	0.207	-13.68	0.04
125	0.113	-18.94	0.01	305	0.278	-11.10	0.08
130	0.112	-19.02	0.01	310	0.350	-9.12	0.12
135	0.108	-19.37	0.01	315	0.432	-7.29	0.19
140	0.103	-19.74	0.01	320	0.514	-5.78	0.26
145	0.098	-20.18	0.01	325	0.604	-4.39	0.36
150	0.093	-20.63	0.01	330	0.693	-3.19	0.48
155	0.090	-20.96	0.01	335	0.772	-2.25	0.60
160	0.086	-21.31	0.01	340	0.850	-1.41	0.72
165	0.100	-20.00	0.01	345	0.900	-0.91	0.81
170	0.114	-18.86	0.01	350	0.951	-0.44	0.90
175	0.121	-18.34	0.01	355	0.975	-0.22	0.95

B1.1	freq: 91.5 MHz, Vertical polarization	MB 2.12.4 15:48
Typ Nr.	One K53 32 187 attached to Bohn-25 tower	S C A L A Medford Oregon

Tufts University WMFO

