

frequency in MHz 199.250
down-tilt in ° .0
max / mean in dB 3.27

Fisher Broadcasting / North Bend OR

S C A L A Medford Oregon	4 x 3 DRV Panel array Channel - 11	Typ Nr.
		Bl.:

simulation with typical exactness of +/- 8% of max signal

Azimuth Radiation Pattern in % and dB at downtilt: .0

f = 199.250MHz

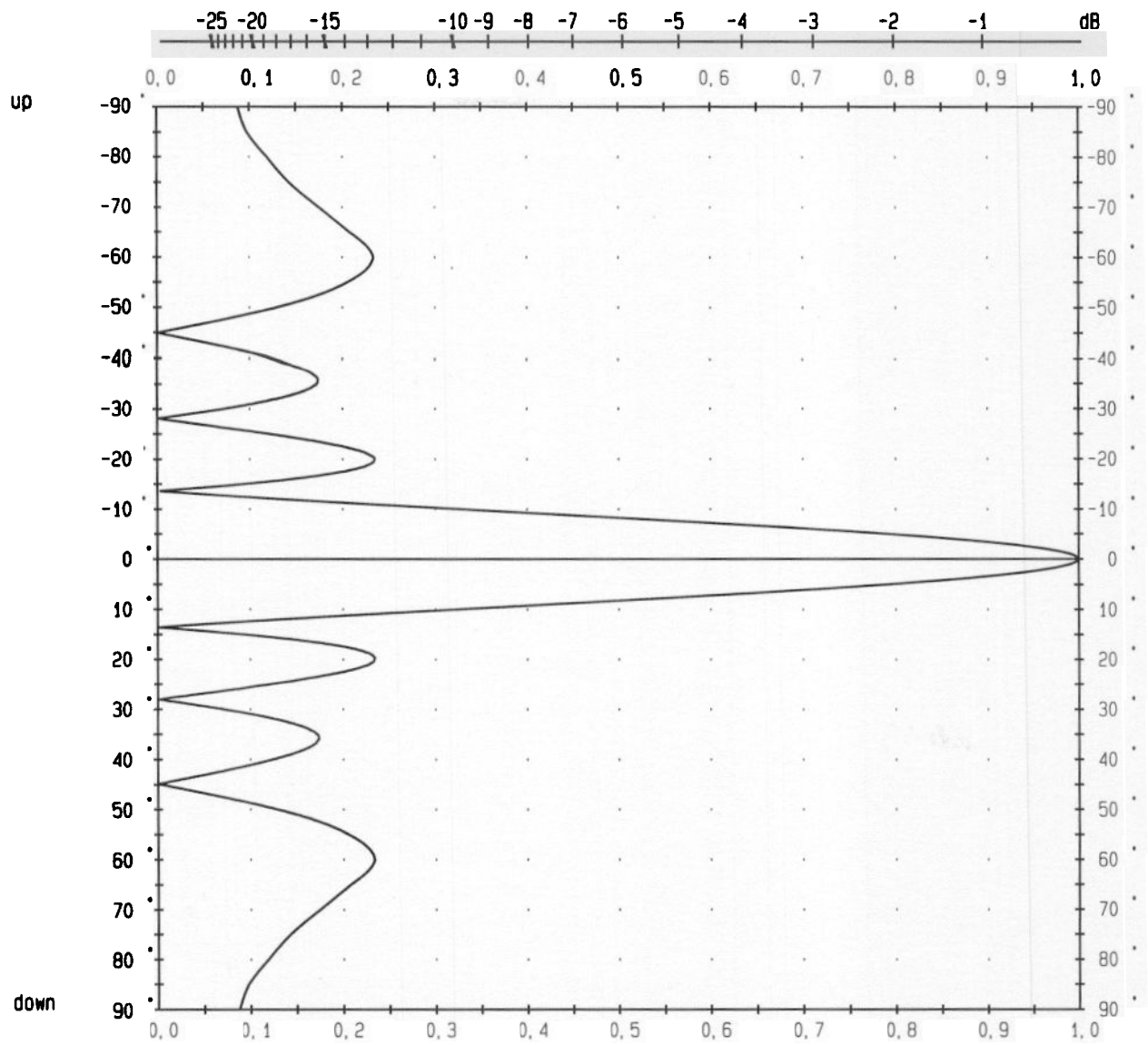
azimuth	%	dB	azimuth	%	dB
0	99.8	.0	180	99.8	.0
5	100.0	.0	185	97.6	-.2
10	98.6	-.1	190	90.0	-.9
15	93.3	-.6	195	84.2	-1.5
20	84.4	-1.5	200	76.8	-2.3
25	75.0	-2.5	205	74.3	-2.6
30	65.4	-3.7	210	74.9	-2.5
35	56.3	-5.0	215	77.6	-2.2
40	49.1	-6.2	220	80.9	-1.8
45	43.9	-7.2	225	82.4	-1.7
50	41.5	-7.6	230	79.4	-2.0
55	41.3	-7.7	235	74.4	-2.6
60	40.0	-8.0	240	67.9	-3.4
65	35.6	-9.0	245	60.4	-4.4
70	27.5	-11.2	250	55.7	-5.1
75	17.8	-15.0	255	57.9	-4.7
80	7.8	-22.1	260	62.2	-4.1
85	2.9	-30.6	265	70.4	-3.0
90	2.5	-32.2	270	71.3	-2.9
95	2.9	-30.6	275	70.4	-3.0
100	7.8	-22.1	280	62.2	-4.1
105	17.8	-15.0	285	57.9	-4.7
110	27.5	-11.2	290	55.7	-5.1
115	35.6	-9.0	295	60.4	-4.4
120	40.0	-8.0	300	67.9	-3.4
125	41.3	-7.7	305	74.4	-2.6
130	41.5	-7.6	310	79.5	-2.0
135	43.9	-7.2	315	82.4	-1.7
140	49.1	-6.2	320	80.9	-1.8
145	56.4	-5.0	325	77.6	-2.2
150	65.3	-3.7	330	74.9	-2.5
155	75.0	-2.5	335	74.2	-2.6
160	84.4	-1.5	340	76.8	-2.3
165	93.3	-.6	345	84.2	-1.5
170	98.6	-.1	350	90.0	-.9
175	100.0	.0	355	97.6	-.2
180	99.8	.0	360	99.8	.0

maximum fieldstrength was found at:

azimuth 4.
downtilt 0.

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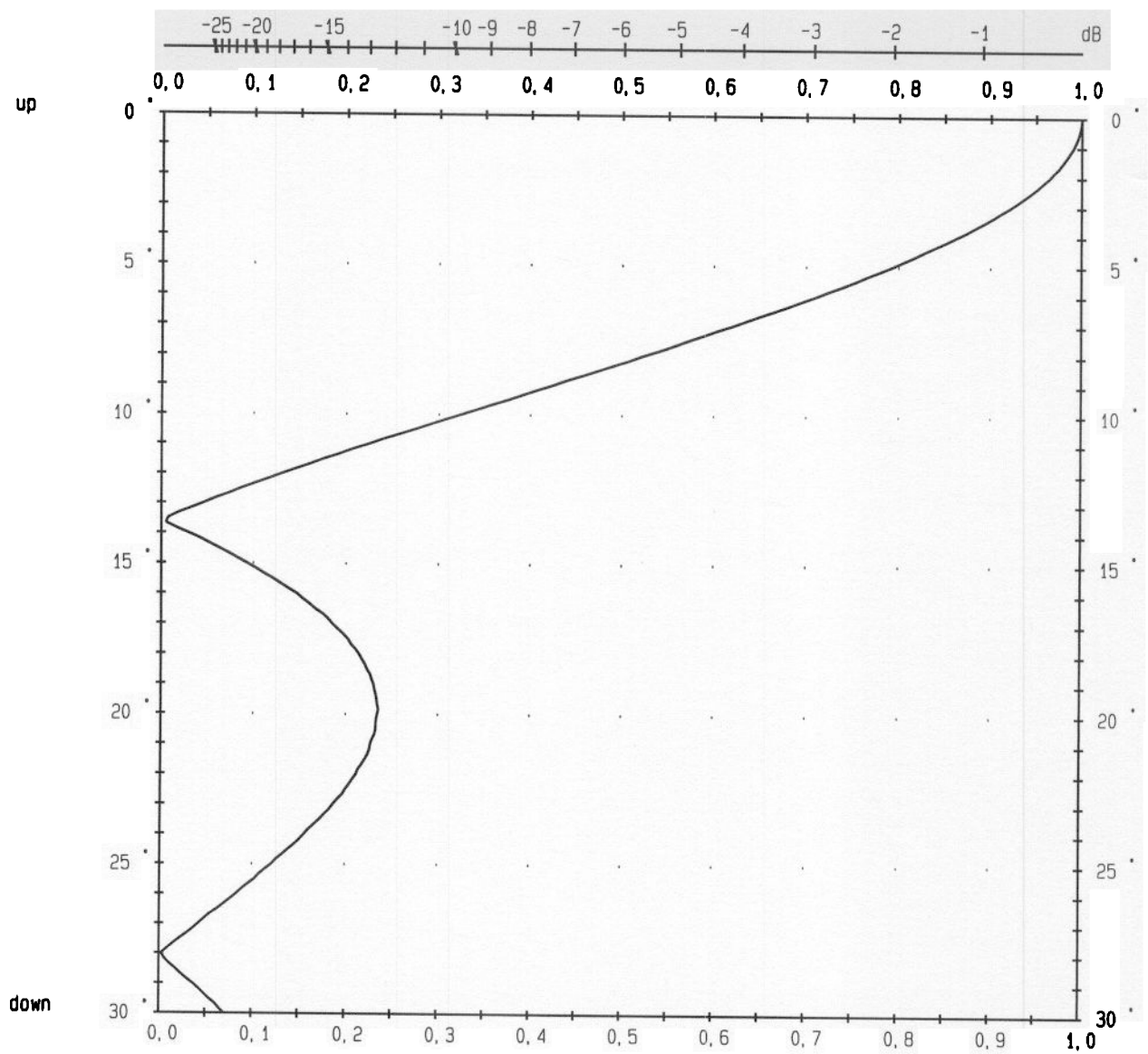
S C A L A Medford Oregon MB 18.7. 8 9:21	4 x 3 DRV Panel array Channel - 11	Typ Nr.
		81..



frequency in MHz 199.250
 azimuth in 3.0
 omni-dir in dBd 6.85

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SCALA Medford Oregon	4 x 3 DRV Panel array	Typ Nr.
MB 18.7. 8 9:19	Channel - 11	81..



frequency in MHz 199.250
 azimuth in ° 4.0
 omni-dir in dBd

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SCALA Medford Oregon	4 x 3 DRV Panel array Channel - 11	Typ Nr.
		B1.:

MB 18.7. 8 9:22

Dimensions and Feeding of Antenna System antenna type: K52315. 2 alu dipole panel

174-230 MHz

operating f in MHz : 199.250 .000 .000 .000 .000
 operating channels : 11 0 0 0 0
 database f in MHz : 195
 max. azimuth angle 180 max. declination 90 cable design frequency: 199.250 MHz
 compensation in % : .00 .00 .00 .00 .00

bay	height	v-feed	power	cab-ph	fix-ph	panel	azipos	azidir	radius	tanoff	radoff	tilt	power	cab-ph	fix-ph
4	4800	1.0	0	0	1	180.0	180.0	635.0	.0	.0	.0	2.0	0	0	
					2	270.0	270.0	635.0	.0	.0	.0	1.0	0	0	
					3	.0	.0	635.0	.0	.0	.0	2.0	0	0	
3	3200	1.0	0	0	1	180.0	180.0	635.0	.0	.0	.0	2.0	0	0	
					2	270.0	270.0	635.0	.0	.0	.0	1.0	0	0	
					3	.0	.0	635.0	.0	.0	.0	2.0	0	0	
2	1600	1.0	0	0	1	180.0	180.0	635.0	.0	.0	.0	2.0	0	0	
					2	270.0	270.0	635.0	.0	.0	.0	1.0	0	0	
					3	.0	.0	635.0	.0	.0	.0	2.0	0	0	
1	0	1.0	0	0	1	180.0	180.0	635.0	.0	.0	.0	2.0	0	0	
					2	270.0	270.0	635.0	.0	.0	.0	1.0	0	0	
					3	.0	.0	635.0	.0	.0	.0	2.0	0	0	

Directivity from HRP and zoomed VRP

operating f in MHz : 199.250 .000 .000 .000 .000
 operating channel : 11 0 0 0 0
 HRP max/mean in dB : 3.27 .00 .00 .00 .00
 VRP omnidir in dB : 6.85 .00 .00 .00 .00
 directivity in dB : 10.12 .00 .00 .00 .00
 harness losses : .00 .00 .00 .00 .00
 gain in dB : 10.12 .00 .00 .00 .00

allow +/-0.5 dB tolerance for pattern variations

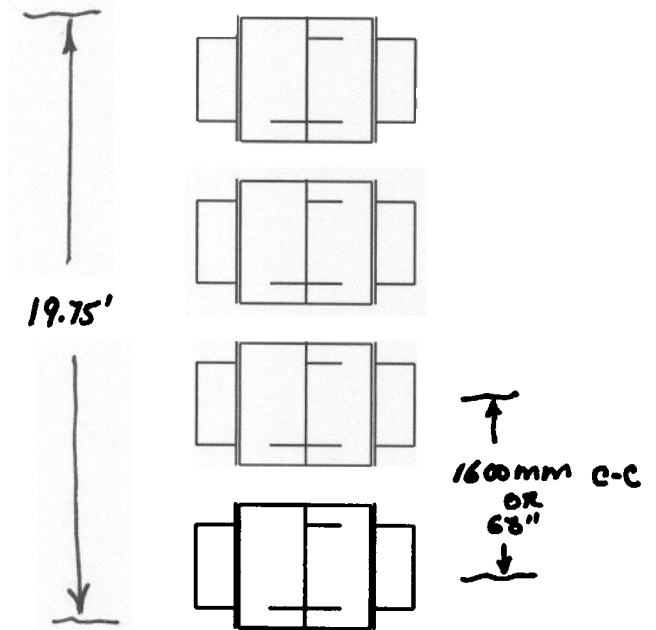
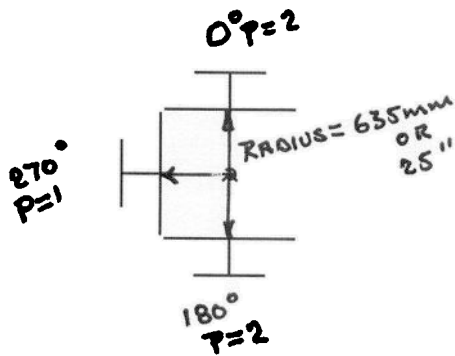
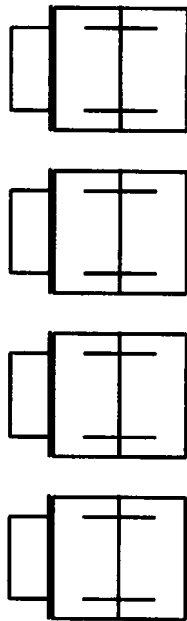
harness parameters at cable design frequency:

bay feeder : .0 m 3AA@L@ (a = .00 dB)
 antenna cable: .0 m 3AA@L@ (a = .00 dB)

$$\begin{array}{r}
 10.12 \\
 - 0.20 \\
 \hline
 9.92 \text{ dB Peak Array Gain} \\
 (\times 9.8 \text{ Power multiplier})
 \end{array}$$

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SCALA Medford Oregon	4 x 3 DRV Panel array Channel - 11	Typ Nr. Bl.:
MB 18.7. 8 9:21		



1 meter

mast size in mm 100. direction 0.
offset north 0. east 0.

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