

Hochgewinn-Hornantenne BBHA 9120 K
High Gain Horn Antenna BBHA 9120 K



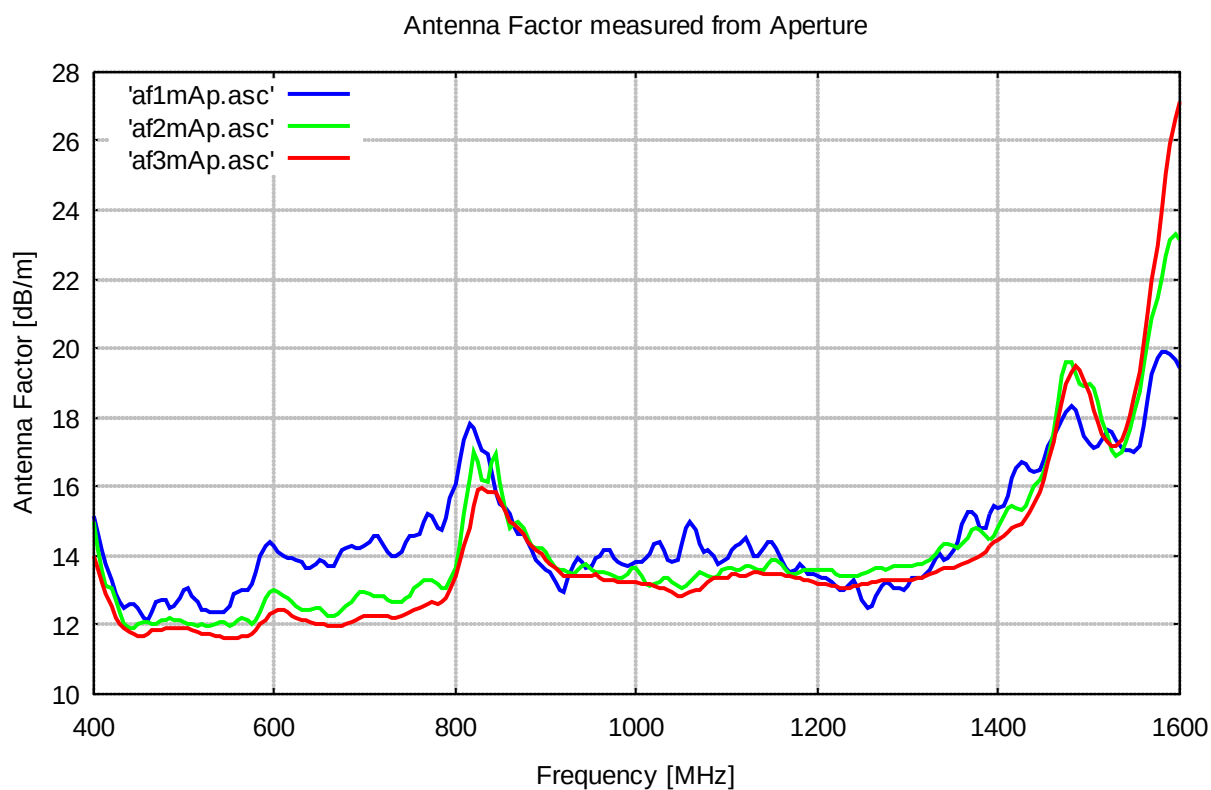
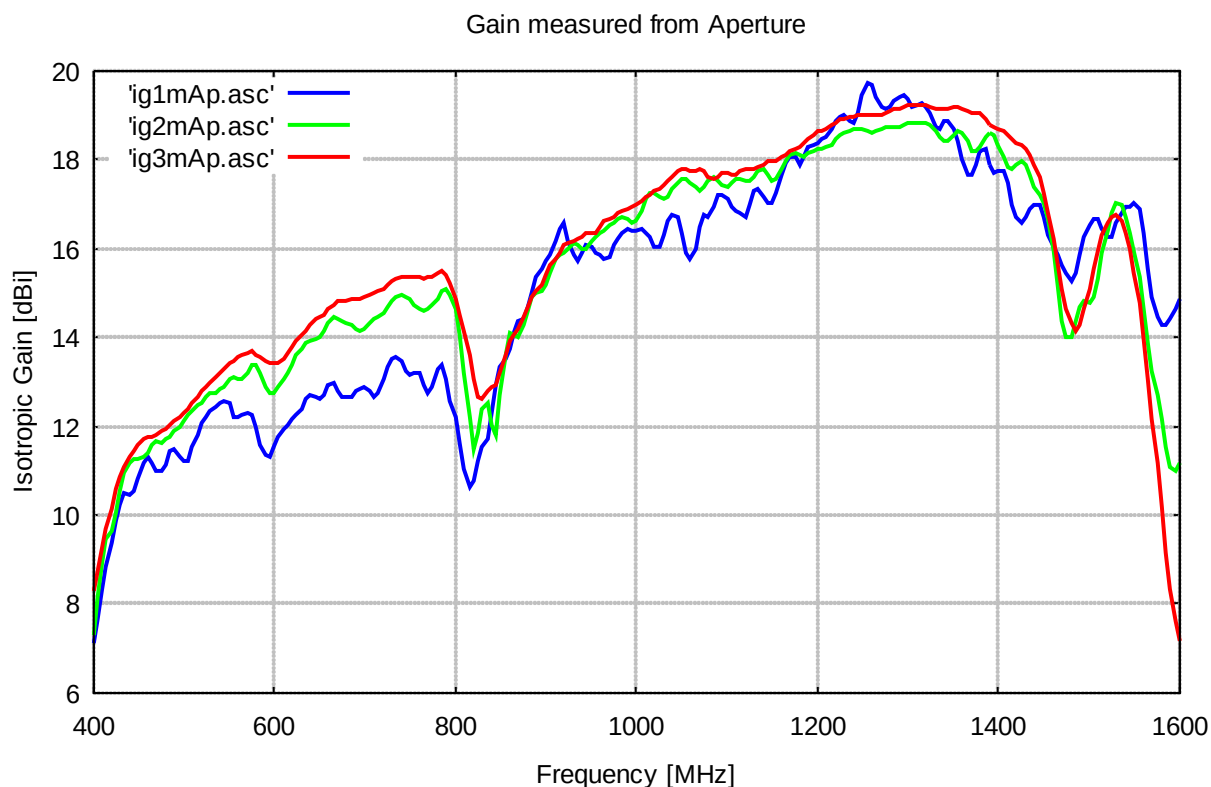
Beschreibung:

Die Hornantenne BBHA 9120 K ist eine linear polarisierte Hochgewinnantenne, die speziell für Störfestigkeitsprüfungen in den Radarbändern von 1.2 GHz bis 1.4 GHz bei kurzen Messentfernungen optimiert wurde.

Description:

The BBHA 9120 K is a linear polarized high gain horn antenna for immunity testing at short distances, especially optimized for the radar frequency range 1.2 GHz to 1.4 GHz.

Technische Daten:		Specifications:
Frequenzbereich:	400 MHz - 1.6 GHz	Frequency Range:
Isotropiegewinn:	11-20 dBi (450 MHz < f < 1.6 GHz) @ 1 m Ap.	Isotropic Gain:
Antennenfaktor:	12-20 dB/m @ 1 m Ap.	Antenna Factor:
Impedanz, nominell:	50 Ω	Nominal Impedance:
Stehwellenverhältnis SWR max:	< 2.5 (450 MHz < f < 1.6 GHz)	Standing Wave Ratio SWR max:
Stehwellenverhältnis SWR typisch:	< 1.5	Standing Wave Ratio SWR typical:
Polarisation:	linear	Polarisation:
Max. Eingangsleistung:	1 kW @ 1 GHz	Max. Input Power:
Anschluß: N-Buchse	0.8 kW @ 1.5 GHz	N-Connector female
Max. Eingangsleistung:	1.7 kW @ 1 GHz	Max. Input Power:
Option: 7/16 Buchse	1.4 kW @ 1.5 GHz	Option: 7/16 Connector female
3 dB Öffnungswinkel E-Ebene:	19° - 35° (0.9-1.5 GHz)	3 dB Beamwidth E-plane:
3 dB Öffnungswinkel H-Ebene:	18° - 33° (0.9-1.5 GHz)	3 dB Beamwidth H-plane:
Länge x Breite x Höhe:	1.85 x 1.1 x 0.8 m	Length x Width x Height:
Gewicht:	32.5 kg	Weight:
Montage: Flansch		Mounting: Flange
Empfohlener Mast:	AM BBHA 9120 K	Recommended Mast:
Normen:	General Motors: GM3097 Ford: EMC-CS-2009	Standards:



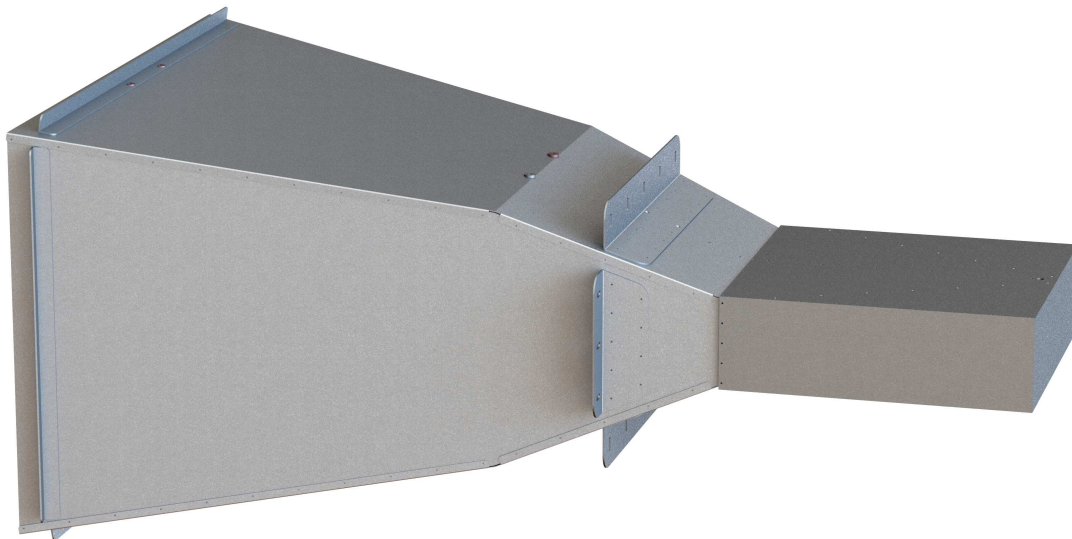
Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture	Isotropic gain 2 m Aperture	Antenna factor 2 m Aperture	Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]	[dBi]	[dB/m]
350.00	3.84	17.26	4.49	16.61	5.22	15.88
355.00	4.26	16.96	5.18	16.05	5.54	15.69
360.00	4.84	16.51	5.83	15.52	5.69	15.66
365.00	5.32	16.15	5.94	15.53	5.63	15.83
370.00	5.71	15.87	5.74	15.85	5.97	15.61
375.00	5.79	15.91	5.74	15.96	6.52	15.18
380.00	6.01	15.81	5.94	15.88	6.79	15.03
385.00	6.29	15.64	6.42	15.50	7.04	14.89
390.00	6.40	15.64	6.82	15.22	7.15	14.89
395.00	6.80	15.35	7.08	15.07	7.41	14.74
400.00	7.12	15.14	7.31	14.95	7.68	14.58
405.00	7.67	14.70	8.17	14.20	8.54	13.83
410.00	8.30	14.18	8.89	13.59	9.33	13.15
415.00	8.83	13.75	9.46	13.12	9.97	12.61
420.00	9.37	13.31	9.64	13.05	10.13	12.56
425.00	9.87	12.92	10.06	12.73	10.37	12.42
430.00	10.21	12.68	10.55	12.34	10.74	12.15
435.00	10.49	12.50	10.96	12.03	11.17	11.82
440.00	10.47	12.62	11.18	11.91	11.43	11.66
445.00	10.56	12.63	11.28	11.91	11.56	11.63
450.00	10.82	12.46	11.26	12.03	11.58	11.70
455.00	11.19	12.19	11.30	12.09	11.61	11.77
460.00	11.31	12.17	11.41	12.06	11.62	11.86
465.00	11.19	12.38	11.57	12.00	11.70	11.87
470.00	11.00	12.66	11.66	12.00	11.79	11.87
475.00	11.01	12.74	11.63	12.12	11.84	11.92
480.00	11.15	12.69	11.70	12.15	11.91	11.93
485.00	11.44	12.49	11.74	12.20	11.94	12.00
490.00	11.49	12.53	11.88	12.15	12.08	11.95
495.00	11.31	12.80	11.98	12.13	12.16	11.95
500.00	11.21	12.99	12.10	12.10	12.22	11.98
505.00	11.24	13.05	12.26	12.03	12.39	11.90
510.00	11.54	12.83	12.34	12.03	12.52	11.86
515.00	11.81	12.65	12.48	11.98	12.68	11.78
520.00	12.09	12.45	12.52	12.02	12.74	11.80
525.00	12.20	12.42	12.64	11.99	12.85	11.78
530.00	12.34	12.37	12.73	11.97	13.01	11.70
535.00	12.44	12.35	12.76	12.02	13.10	11.68
540.00	12.51	12.36	12.82	12.05	13.22	11.65
545.00	12.57	12.38	12.90	12.05	13.24	11.70
550.00	12.51	12.52	13.05	11.98	13.34	11.69
555.00	12.21	12.90	13.10	12.01	13.49	11.62
560.00	12.23	12.95	13.06	12.12	13.62	11.56
565.00	12.26	13.00	13.08	12.18	13.70	11.57
570.00	12.32	13.02	13.21	12.13	13.69	11.65
575.00	12.26	13.15	13.39	12.03	13.70	11.71
580.00	11.97	13.52	13.38	12.11	13.71	11.77
585.00	11.57	13.99	13.18	12.38	13.62	11.94
590.00	11.35	14.29	12.88	12.76	13.37	12.26
595.00	11.29	14.42	12.74	12.97	13.15	12.56
600.00	11.53	14.25	12.76	13.02	13.10	12.69

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture	Isotropic gain 2 m Aperture	Antenna factor 2 m Aperture	Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]	[dBi]	[dB/m]
605.00	11.76	14.10	12.90	12.95	13.25	12.60
610.00	11.92	14.01	13.08	12.85	13.47	12.46
615.00	12.04	13.96	13.21	12.78	13.61	12.39
620.00	12.15	13.92	13.40	12.67	13.78	12.29
625.00	12.27	13.87	13.60	12.54	13.95	12.18
630.00	12.41	13.80	13.76	12.44	14.09	12.12
635.00	12.61	13.67	13.87	12.40	14.18	12.09
640.00	12.70	13.64	13.90	12.44	14.26	12.08
645.00	12.65	13.76	13.95	12.46	14.38	12.03
650.00	12.62	13.86	14.01	12.47	14.43	12.05
655.00	12.71	13.83	14.16	12.39	14.49	12.06
660.00	12.93	13.68	14.34	12.27	14.58	12.03
665.00	12.99	13.69	14.44	12.24	14.70	11.97
670.00	12.79	13.95	14.41	12.33	14.79	11.95
675.00	12.67	14.14	14.36	12.45	14.83	11.98
680.00	12.66	14.21	14.33	12.54	14.82	12.05
685.00	12.68	14.25	14.28	12.65	14.78	12.15
690.00	12.78	14.22	14.18	12.82	14.73	12.27
695.00	12.85	14.21	14.13	12.93	14.77	12.29
700.00	12.87	14.25	14.18	12.94	14.84	12.28
705.00	12.78	14.40	14.32	12.87	14.92	12.27
710.00	12.66	14.59	14.41	12.83	14.98	12.27
715.00	12.76	14.55	14.46	12.85	15.04	12.26
720.00	13.07	14.30	14.55	12.81	15.11	12.26
725.00	13.33	14.10	14.69	12.74	15.17	12.26
730.00	13.52	13.97	14.84	12.65	15.23	12.26
735.00	13.57	13.98	14.92	12.63	15.33	12.21
740.00	13.49	14.11	14.96	12.65	15.46	12.15
745.00	13.25	14.41	14.91	12.76	15.49	12.17
750.00	13.16	14.56	14.88	12.84	15.44	12.28
755.00	13.19	14.59	14.71	13.06	15.25	12.53
760.00	13.21	14.63	14.66	13.17	15.17	12.66
765.00	12.94	14.95	14.59	13.30	15.20	12.69
770.00	12.75	15.20	14.64	13.31	15.29	12.66
775.00	12.87	15.14	14.72	13.29	15.37	12.63
780.00	13.27	14.79	14.87	13.19	15.46	12.60
785.00	13.37	14.75	15.05	13.07	15.57	12.54
790.00	13.07	15.10	15.11	13.06	15.65	12.52
795.00	12.55	15.68	14.96	13.27	15.56	12.66
800.00	12.20	16.08	14.62	13.66	15.28	13.00
805.00	11.64	16.70	14.05	14.28	14.63	13.70
810.00	11.05	17.34	13.21	15.18	13.78	14.61
815.00	10.65	17.79	12.22	16.22	13.04	15.41
820.00	10.78	17.72	11.49	17.01	12.72	15.78
825.00	11.22	17.33	11.87	16.68	12.49	16.06
830.00	11.55	17.05	12.40	16.20	12.18	16.43
835.00	11.71	16.94	12.51	16.15	12.11	16.54
840.00	12.31	16.40	12.03	16.68	12.70	16.01
845.00	12.93	15.83	11.82	16.94	13.22	15.53
850.00	13.34	15.47	12.69	16.12	13.36	15.45
855.00	13.50	15.36	13.61	15.25	13.28	15.58
860.00	13.72	15.19	14.10	14.81	13.57	15.34

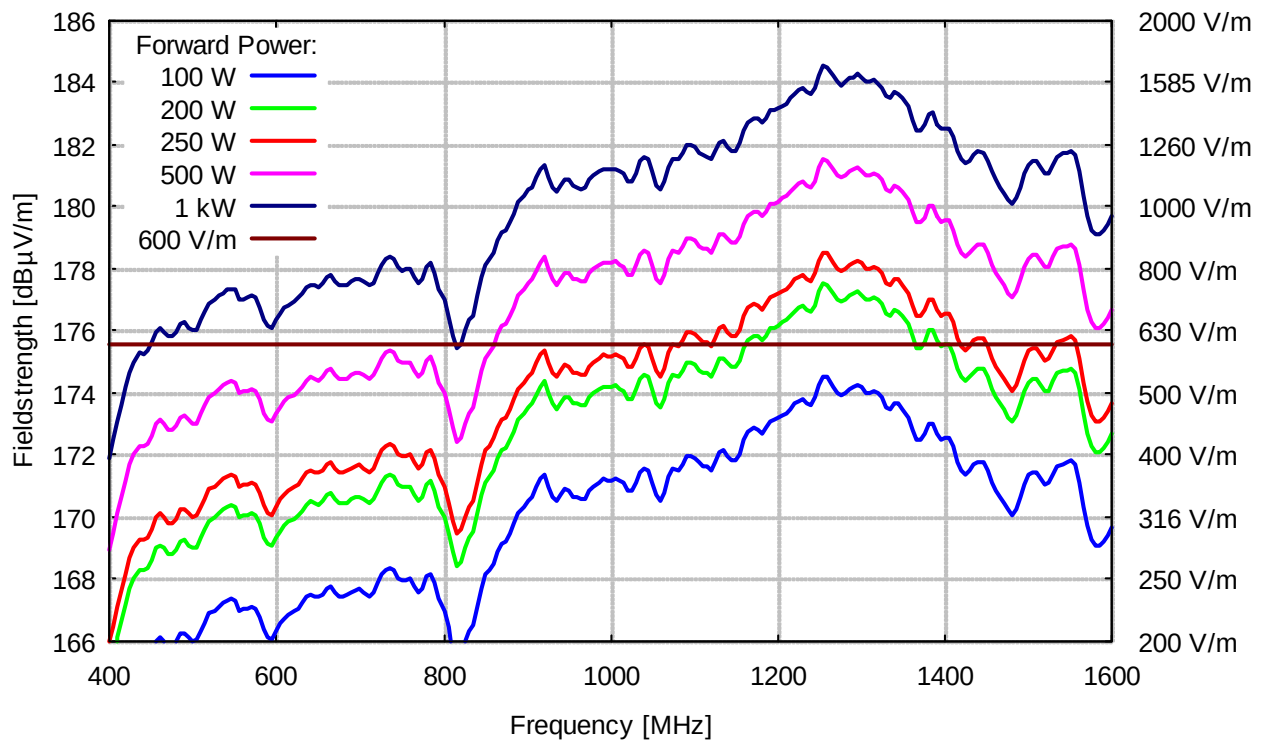
Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture	Isotropic gain 2 m Aperture	Antenna factor 2 m Aperture	Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]	[dBi]	[dB/m]
865.00	14.09	14.87	14.04	14.92	14.09	14.87
870.00	14.37	14.64	14.01	15.00	14.44	14.57
875.00	14.43	14.63	14.27	14.79	14.53	14.53
880.00	14.69	14.42	14.61	14.50	14.58	14.53
885.00	14.98	14.18	14.89	14.27	14.78	14.37
890.00	15.35	13.86	14.99	14.22	15.04	14.16
895.00	15.54	13.72	15.04	14.21	15.25	14.01
900.00	15.72	13.58	15.18	14.12	15.39	13.91
905.00	15.84	13.51	15.46	13.89	15.59	13.76
910.00	16.15	13.25	15.75	13.66	15.84	13.56
915.00	16.42	13.03	15.85	13.60	16.00	13.44
920.00	16.56	12.94	15.89	13.60	16.10	13.40
925.00	16.17	13.37	16.00	13.54	16.23	13.31
930.00	15.84	13.75	16.13	13.45	16.40	13.19
935.00	15.70	13.94	16.07	13.56	16.35	13.29
940.00	15.89	13.79	16.00	13.68	16.20	13.48
945.00	16.09	13.64	16.00	13.73	16.11	13.62
950.00	16.05	13.72	16.17	13.60	16.29	13.49
955.00	15.88	13.94	16.28	13.54	16.43	13.39
960.00	15.85	14.02	16.35	13.52	16.53	13.33
965.00	15.77	14.14	16.41	13.50	16.62	13.29
970.00	15.81	14.15	16.51	13.45	16.72	13.23
975.00	16.08	13.92	16.58	13.42	16.76	13.24
980.00	16.21	13.83	16.68	13.36	16.78	13.26
985.00	16.34	13.75	16.72	13.37	16.86	13.23
990.00	16.42	13.71	16.65	13.48	17.01	13.13
995.00	16.40	13.78	16.56	13.62	17.02	13.16
1000.00	16.39	13.83	16.60	13.62	17.05	13.17
1005.00	16.44	13.82	16.83	13.43	17.03	13.23
1010.00	16.35	13.96	17.11	13.20	17.17	13.14
1015.00	16.28	14.07	17.24	13.11	17.27	13.08
1020.00	16.03	14.36	17.24	13.15	17.37	13.02
1025.00	16.02	14.41	17.18	13.25	17.50	12.94
1030.00	16.30	14.18	17.11	13.36	17.54	12.93
1035.00	16.64	13.88	17.18	13.34	17.61	12.91
1040.00	16.77	13.79	17.33	13.23	17.67	12.89
1045.00	16.71	13.89	17.49	13.11	17.79	12.82
1050.00	16.33	14.31	17.57	13.07	17.92	12.72
1055.00	15.89	14.80	17.55	13.14	18.00	12.68
1060.00	15.75	14.98	17.48	13.25	17.98	12.74
1065.00	16.01	14.76	17.37	13.40	17.83	12.94
1070.00	16.50	14.31	17.31	13.50	17.69	13.11
1075.00	16.76	14.09	17.37	13.48	17.72	13.13
1080.00	16.73	14.16	17.50	13.39	17.79	13.10
1085.00	16.92	14.01	17.59	13.34	17.76	13.17
1090.00	17.19	13.78	17.54	13.43	17.65	13.32
1095.00	17.19	13.82	17.43	13.58	17.65	13.36
1100.00	17.10	13.95	17.40	13.65	17.74	13.30
1105.00	16.94	14.15	17.47	13.62	17.82	13.27
1110.00	16.86	14.27	17.55	13.57	17.81	13.31
1115.00	16.82	14.35	17.57	13.59	17.83	13.34
1120.00	16.72	14.48	17.53	13.68	17.89	13.32

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture	Isotropic gain 2 m Aperture	Antenna factor 2 m Aperture	Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]	[dBi]	[dB/m]
1125.00	16.97	14.27	17.53	13.71	17.98	13.26
1130.00	17.29	13.99	17.62	13.66	17.98	13.30
1135.00	17.34	13.98	17.76	13.56	17.89	13.43
1140.00	17.15	14.21	17.77	13.59	17.84	13.52
1145.00	17.02	14.38	17.64	13.76	18.00	13.40
1150.00	17.03	14.40	17.53	13.90	18.19	13.24
1155.00	17.26	14.21	17.57	13.90	18.25	13.22
1160.00	17.66	13.85	17.78	13.73	18.17	13.34
1165.00	17.92	13.63	17.96	13.58	18.13	13.42
1170.00	18.06	13.52	18.11	13.48	18.22	13.37
1175.00	18.04	13.58	18.13	13.49	18.39	13.23
1180.00	17.89	13.77	18.10	13.55	18.58	13.08
1185.00	18.05	13.64	18.08	13.61	18.71	12.99
1190.00	18.28	13.45	18.13	13.60	18.75	12.98
1195.00	18.32	13.45	18.21	13.56	18.77	13.00
1200.00	18.39	13.41	18.23	13.57	18.80	13.01
1205.00	18.46	13.38	18.26	13.58	18.85	12.99
1210.00	18.53	13.35	18.27	13.60	18.88	12.99
1215.00	18.69	13.22	18.35	13.56	18.92	12.99
1220.00	18.85	13.10	18.46	13.49	19.00	12.95
1225.00	18.96	13.02	18.55	13.43	19.08	12.90
1230.00	19.02	13.00	18.61	13.41	19.15	12.87
1235.00	18.87	13.18	18.63	13.43	19.15	12.90
1240.00	18.82	13.27	18.67	13.42	19.15	12.94
1245.00	19.04	13.08	18.71	13.42	19.14	12.98
1250.00	19.45	12.71	18.70	13.46	19.13	13.02
1255.00	19.73	12.46	18.65	13.54	19.13	13.06
1260.00	19.70	12.53	18.61	13.61	19.15	13.08
1265.00	19.41	12.85	18.63	13.63	19.20	13.06
1270.00	19.20	13.10	18.68	13.62	19.24	13.06
1275.00	19.12	13.21	18.72	13.61	19.25	13.08
1280.00	19.20	13.16	18.73	13.64	19.25	13.12
1285.00	19.33	13.07	18.72	13.68	19.28	13.12
1290.00	19.39	13.04	18.73	13.70	19.36	13.07
1295.00	19.46	13.01	18.77	13.70	19.46	13.01
1300.00	19.36	13.14	18.81	13.68	19.52	12.98
1305.00	19.20	13.33	18.84	13.69	19.49	13.04
1310.00	19.22	13.35	18.84	13.73	19.41	13.16
1315.00	19.26	13.34	18.84	13.75	19.37	13.22
1320.00	19.19	13.44	18.82	13.81	19.40	13.23
1325.00	19.06	13.60	18.77	13.89	19.47	13.19
1330.00	18.74	13.96	18.66	14.04	19.50	13.19
1335.00	18.69	14.04	18.52	14.20	19.47	13.26
1340.00	18.88	13.88	18.44	14.33	19.41	13.36
1345.00	18.85	13.94	18.44	14.35	19.33	13.46
1350.00	18.68	14.15	18.56	14.27	19.33	13.50
1355.00	18.44	14.42	18.65	14.21	19.38	13.48
1360.00	18.00	14.89	18.58	14.32	19.45	13.44
1365.00	17.67	15.25	18.40	14.52	19.43	13.49
1370.00	17.67	15.28	18.21	14.75	19.27	13.68
1375.00	17.86	15.13	18.19	14.80	19.11	13.87
1380.00	18.21	14.81	18.29	14.73	19.09	13.93

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture	Isotropic gain 2 m Aperture	Antenna factor 2 m Aperture	Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]	[dBi]	[dB/m]
1385.00	18.23	14.82	18.49	14.56	19.20	13.85
1390.00	17.87	15.21	18.61	14.47	19.19	13.89
1395.00	17.69	15.42	18.57	14.54	18.98	14.13
1400.00	17.74	15.40	18.35	14.80	18.71	14.44
1405.00	17.75	15.42	18.05	15.12	18.60	14.57
1410.00	17.47	15.73	17.84	15.37	18.72	14.48
1415.00	16.99	16.25	17.80	15.44	18.84	14.39
1420.00	16.71	16.56	17.90	15.37	18.83	14.43
1425.00	16.59	16.71	17.97	15.33	18.68	14.62
1430.00	16.69	16.64	17.88	15.44	18.55	14.78
1435.00	16.87	16.49	17.64	15.72	18.51	14.85
1440.00	16.97	16.42	17.37	16.02	18.39	15.00
1445.00	16.96	16.46	17.21	16.21	18.07	15.35
1450.00	16.70	16.75	17.02	16.42	17.61	15.84
1455.00	16.32	17.16	16.65	16.83	17.18	16.29
1460.00	16.05	17.46	15.96	17.55	16.66	16.85
1465.00	15.85	17.69	15.13	18.41	15.96	17.57
1470.00	15.65	17.92	14.38	19.18	15.16	18.41
1475.00	15.43	18.17	13.99	19.61	14.53	19.06
1480.00	15.29	18.34	14.03	19.59	14.25	19.37
1485.00	15.46	18.19	14.39	19.27	14.42	19.24
1490.00	15.84	17.84	14.70	18.98	14.88	18.81
1495.00	16.26	17.45	14.80	18.91	15.37	18.35
1500.00	16.54	17.20	14.79	18.95	15.76	17.98
1505.00	16.67	17.10	14.92	18.85	16.18	17.59
1510.00	16.65	17.15	15.33	18.47	16.67	17.13
1515.00	16.46	17.37	15.88	17.95	17.11	16.71
1520.00	16.25	17.61	16.40	17.46	17.44	16.42
1525.00	16.28	17.61	16.82	17.07	17.64	16.24
1530.00	16.57	17.34	17.02	16.90	17.71	16.21
1535.00	16.82	17.12	16.97	16.98	17.58	16.37
1540.00	16.93	17.04	16.70	17.27	17.22	16.75
1545.00	16.94	17.06	16.34	17.65	16.68	17.32
1550.00	17.01	17.02	15.93	18.10	16.09	17.93
1555.00	16.87	17.18	15.35	18.71	15.47	18.58
1560.00	16.33	17.75	14.62	19.46	14.88	19.21
1565.00	15.54	18.57	13.86	20.25	14.28	19.83
1570.00	14.91	19.23	13.26	20.87	13.69	20.45
1575.00	14.47	19.70	12.71	21.46	12.89	21.27
1580.00	14.29	19.90	12.18	22.02	11.88	22.32
1585.00	14.30	19.92	11.54	22.68	10.69	23.53
1590.00	14.43	19.82	11.10	23.15	9.77	24.48
1595.00	14.62	19.66	10.98	23.30	9.41	24.86
1600.00	14.88	19.42	11.17	23.13	9.54	24.76
1605.00	15.16	19.17	11.50	22.83	9.87	24.46
1610.00	15.39	18.97	11.96	22.39	10.19	24.17
1615.00	15.55	18.83	12.52	21.86	10.62	23.76
1620.00	15.80	18.61	13.08	21.33	11.33	23.08
1625.00	15.58	18.86	13.56	20.87	11.90	22.54
1630.00	14.94	19.52	13.76	20.71	11.94	22.53
1635.00	14.04	20.45	12.62	21.87	10.84	23.65
1640.00	13.07	21.45	12.14	22.38	11.54	22.98

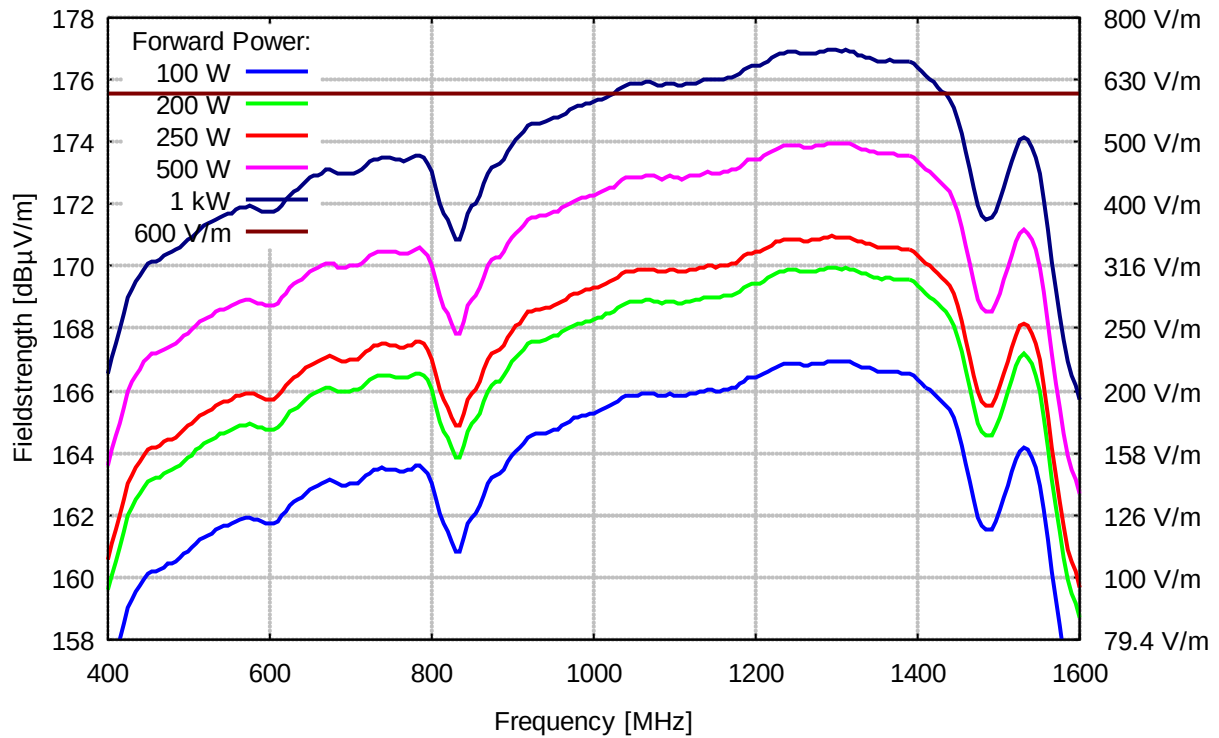


Fieldstrength at 1 m from Aperture

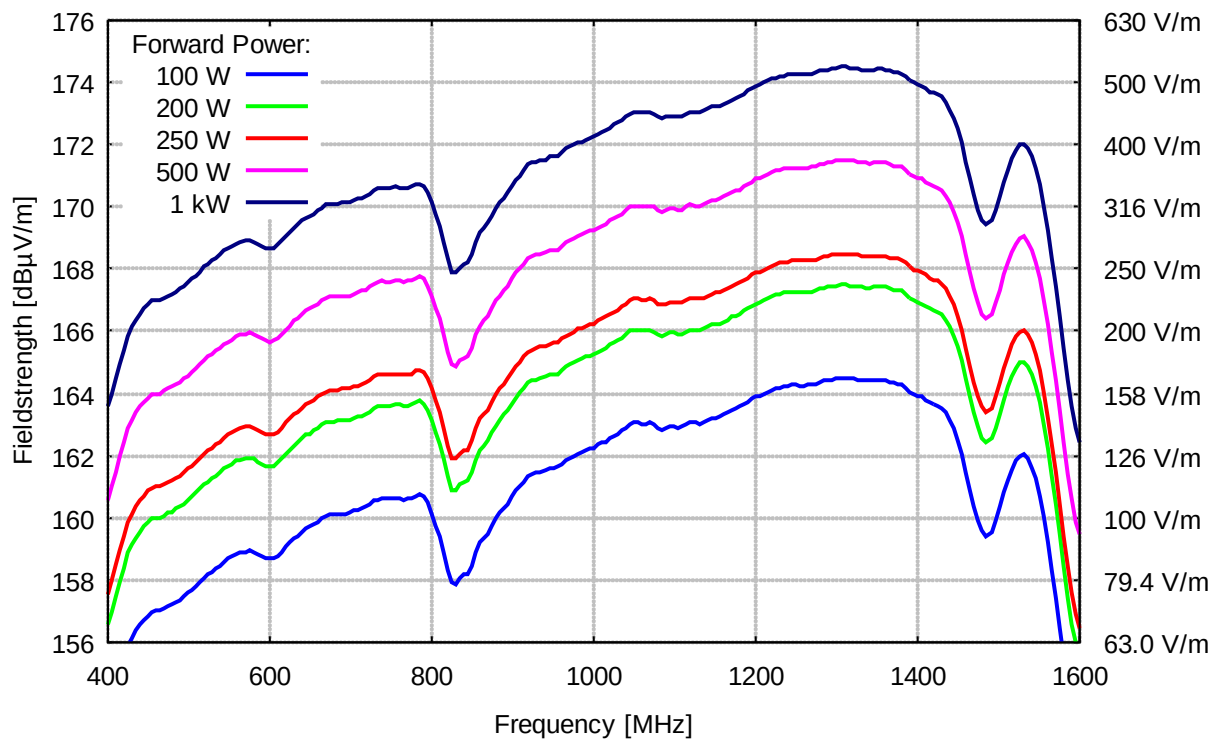


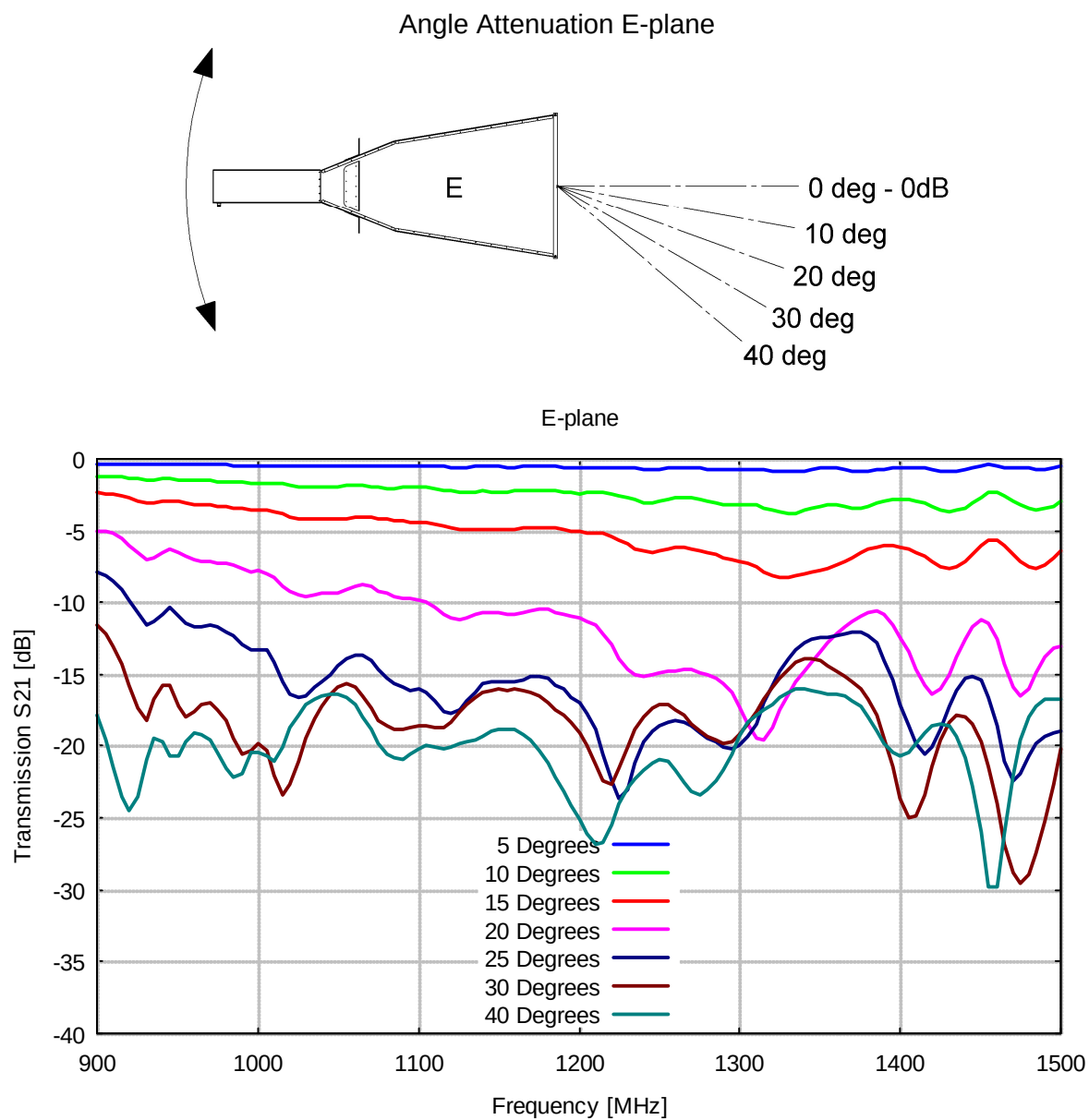


Fieldstrength at 2 m from Aperture

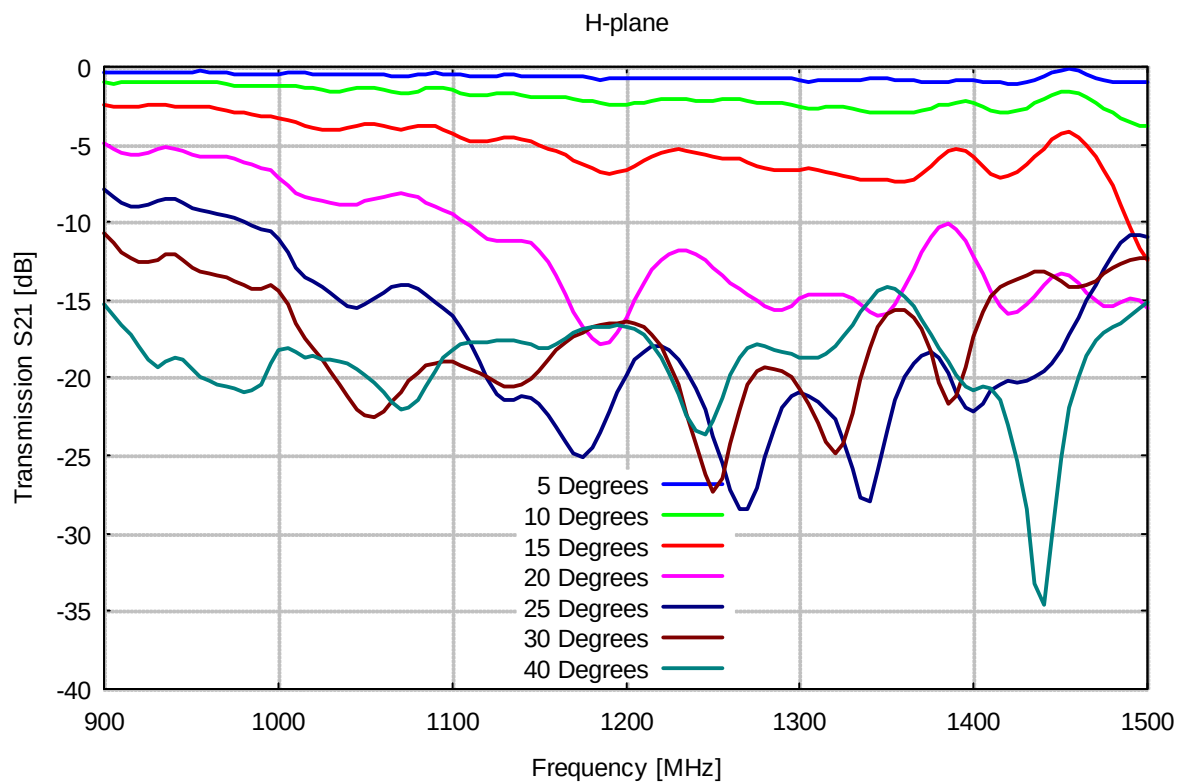
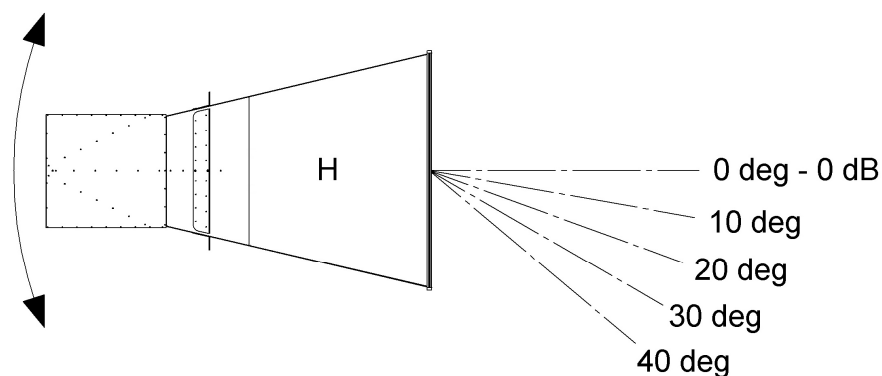


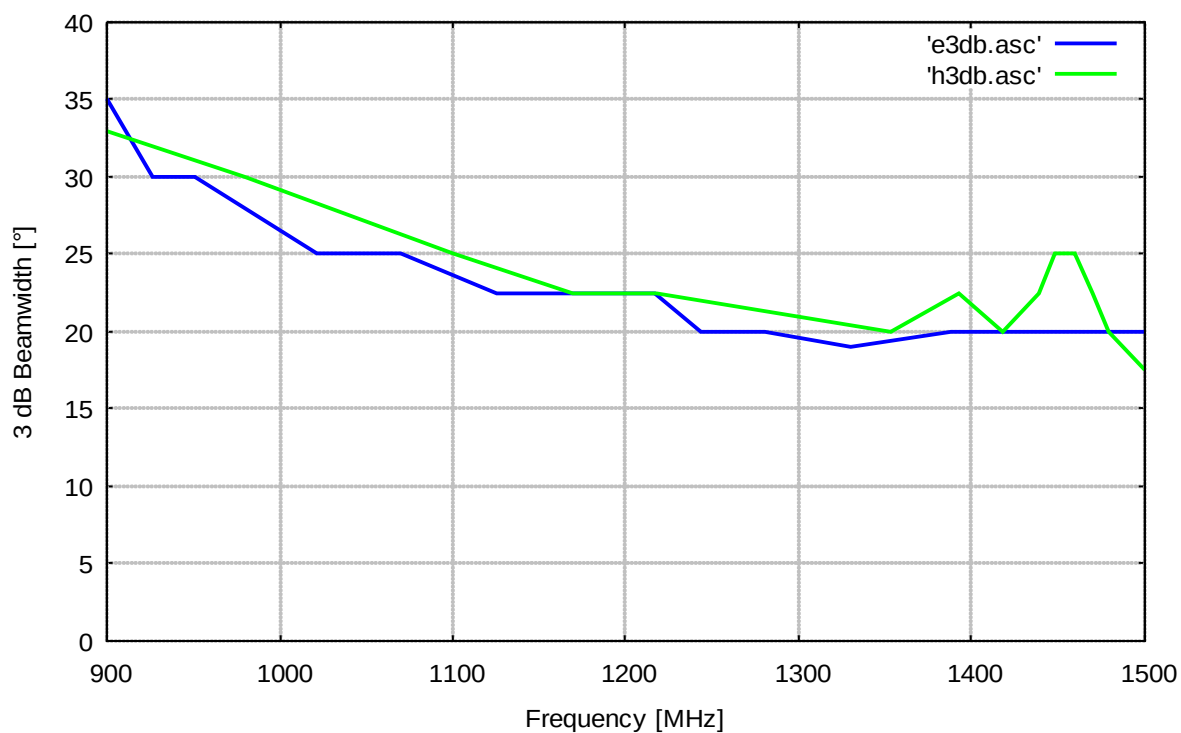
Fieldstrength at 3 m from Aperture





Angle Attenuation H-plane





VSWR BBHA 9120 K

