

271008

Dette er en underside til:

<http://oz1cys.qrz.dk>

Jeg har sat en horizontal loop antenne op . Den er beregnet til 80m som laveste bånd..

I første omgang blev den brugt uden balun. Der er nu monteret en balun 1:2

Den er testet med en minivna analyzer.

Det viser sig at antennen kan køre på flere bånd uden brug af ret meget antennetuner.

Antennen dækker følgende bånd uden brug af tuner:

80m, 40m, 20m, 17m, 15m, 12m

Med den, i stationen indbyggede tuner kan du bruge hele 10m

Antennen kræver ikke meget plads kun 400 kvadratmeter.

Eksempel 1 En firkant på 20m x 20m

Eksempel 2 En firkant på 25m x 16m

Loopets form, fødepunktets placering, højde over jorden bør ikke afholde dig fra at prøve.

Her kan du læse mere om loopantenner. Samt få en formel til udregning:

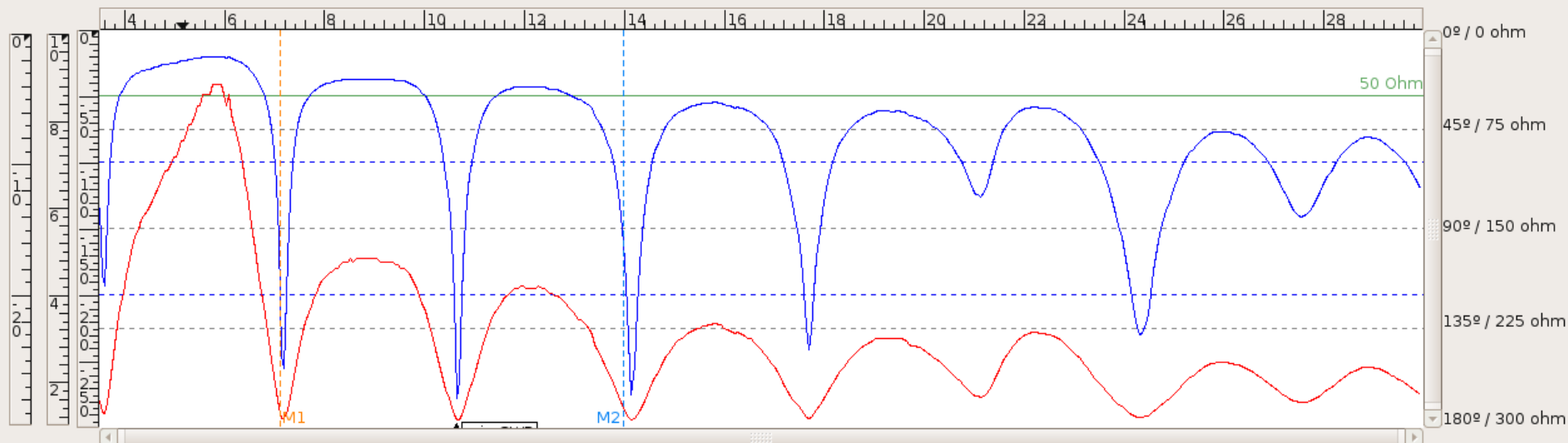
<http://www.verdensnavle.dk/hamlinks.html#loop>





R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

30.000000 Mhz (max) Samples 500
 3.500000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

<input type="checkbox"/> Single marker		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.44	0.12	240.9	46.68	58.32

Minimum SWR

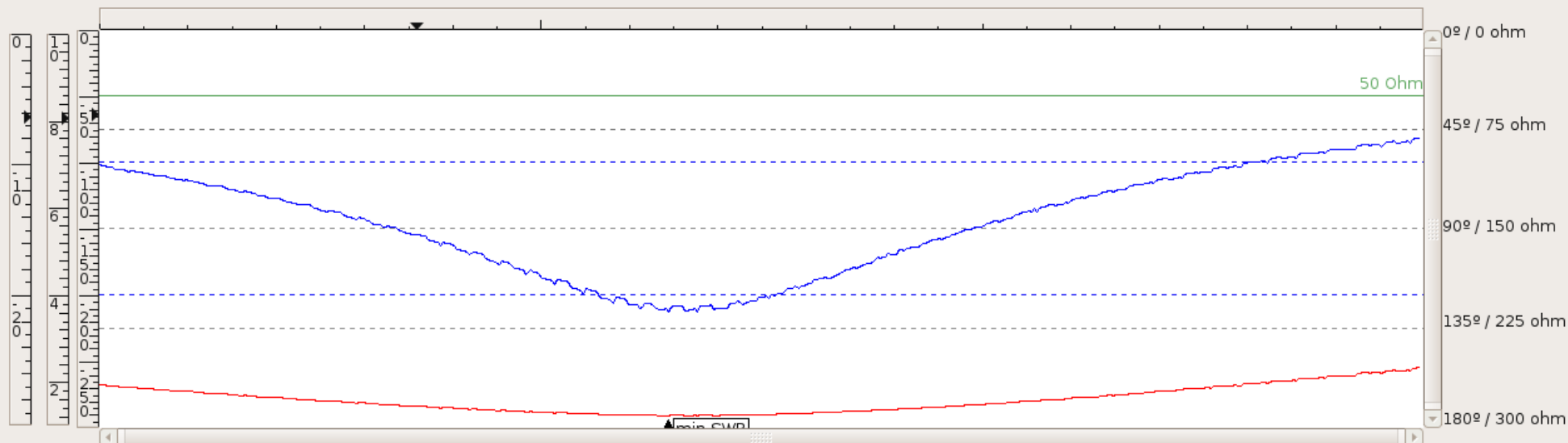
	SWR	0.655000	1.09	136.8	-27.7	2.63	47.03	47.11	0.04	5673.	47.18	842.8
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HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

3.800000 Mhz (max) Samples 500
 3.500000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
<input type="checkbox"/>	Single marker											
<input checked="" type="checkbox"/>	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
<input checked="" type="checkbox"/>	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32

Minimum SWR

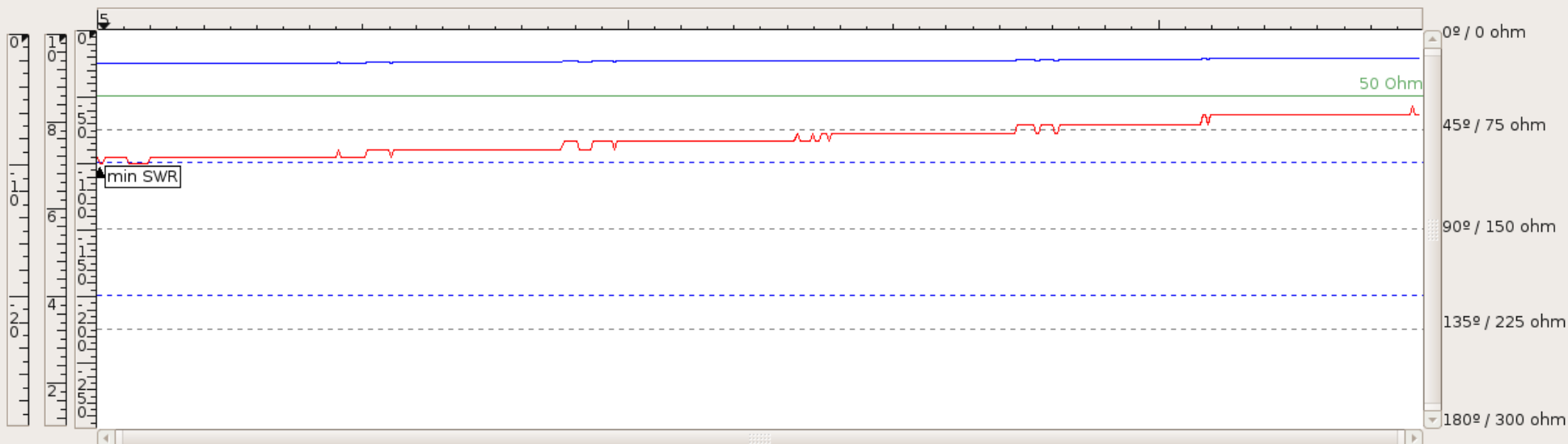
<input checked="" type="checkbox"/>	SWR	3.629000	1.19	116.7	-21.2	7.11	45.73	46.28	0.31	6167.	46.84	301.2
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HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

5.500000 Mhz (max) Samples 500
 5.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

<input type="checkbox"/> Single marker		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32
	SWR	5.001000	6.95	38.67	-2.52	119.4	56.19	131.9	3.80	266.4	310.0	145.8

Minimum SWR

HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

7.200000 Mhz (max) Samples 500
 7.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
<input type="checkbox"/>	Single marker											
<input checked="" type="checkbox"/>	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
<input checked="" type="checkbox"/>	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32

Minimum SWR

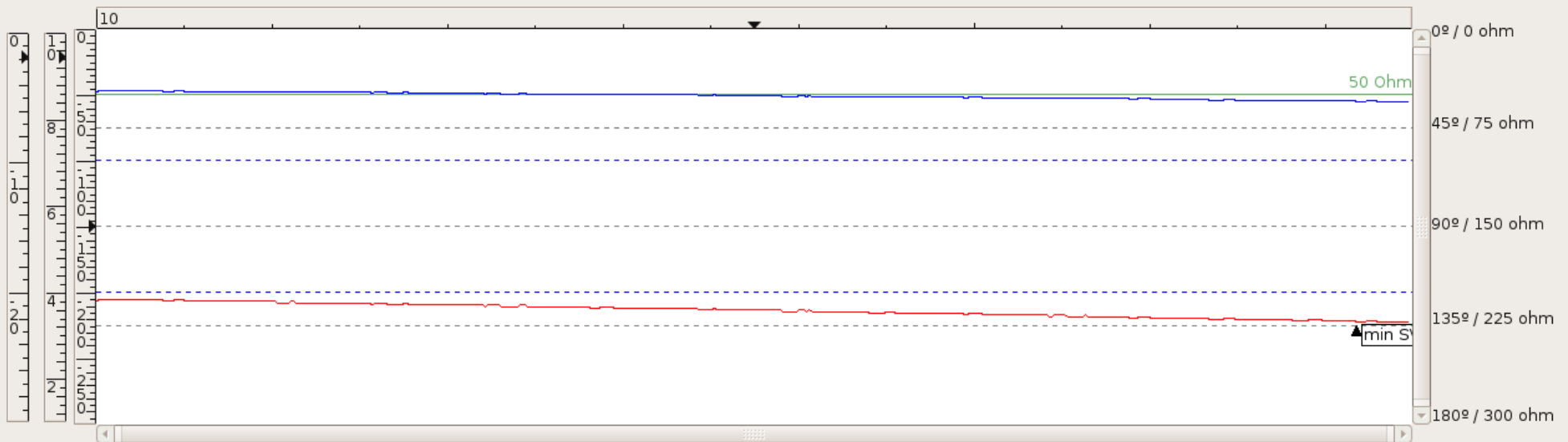
<input checked="" type="checkbox"/>	SWR	7.199200	1.14	34.65	-23.7	4.09	55.46	55.61	0.09	5400.	55.76	755.4
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HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

10.150000 Mhz (max) Samples 500
 10.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm
 Push to modify the Return Loss color

MARKERS

<input type="checkbox"/> Single marker		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32

Minimum SWR

	SWR	0.143700	3.26	155.5	-5.51	9.76	15.99	18.73	0.15	1607.	21.95	35.95
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HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

14.350000 Mhz (max) Samples 500
 14.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

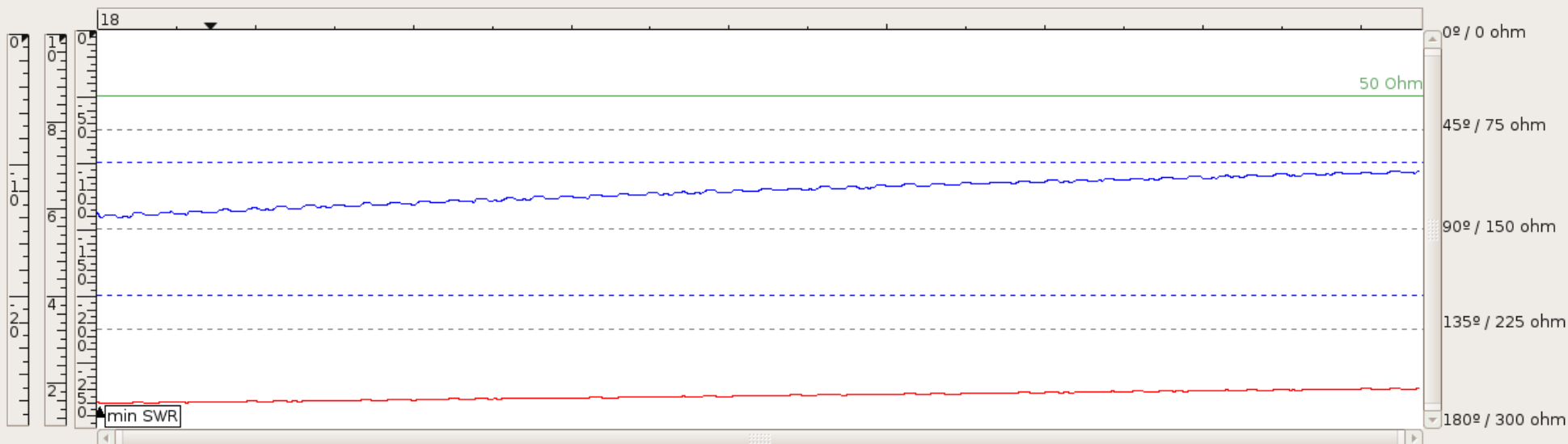
<input type="checkbox"/> Single marker		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32
Minimum SWR		4.210000	1.08	86.28	-28.1	3.93	50.10	50.26	0.04	2850.	50.41	642.7

HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

18.167999 Mhz (max) Samples 500
 18.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

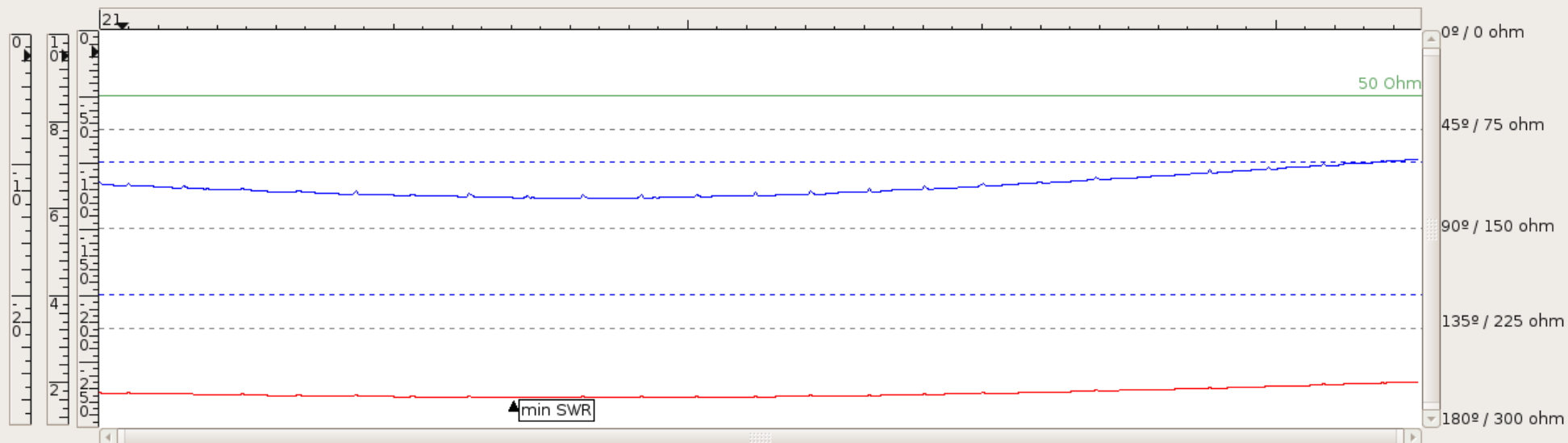
<input type="checkbox"/> Single marker		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32
Minimum SWR		8.000336	1.49	10.68	-14.1	5.59	73.72	73.93	0.05	1581.	74.14	977.7

HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

21.450001 Mhz (max) Samples 500
 21.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

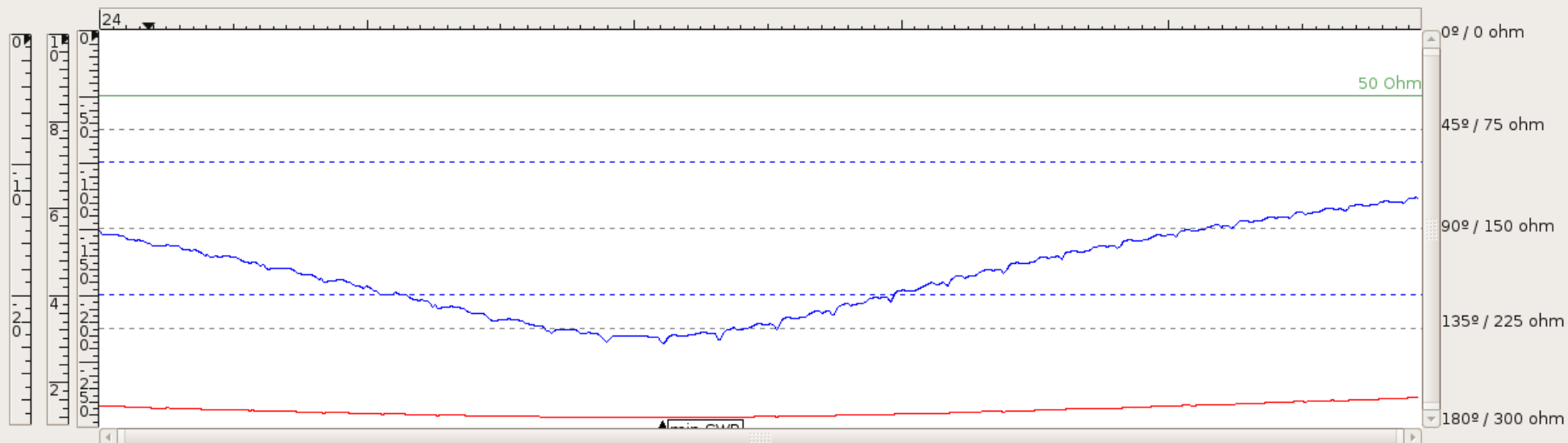
		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
<input type="checkbox"/>	Single marker											
<input checked="" type="checkbox"/>	MK1	9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202.	22.16	285.7
<input checked="" type="checkbox"/>	MK2	9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32
<input checked="" type="checkbox"/>	Minimum SWR	SWR 1.141300	1.61	96.95	-12.6	20.82	42.58	47.39	0.16	361.6	52.76	107.9

HOLD



R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

24.990000 Mhz (max) Samples 500
 24.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

Single marker

	SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp
MK1 9.095200	2.27	175.1	-8.20	1.71	22.03	22.10	0.01	3202	22.16	285.7
MK2 9.000000	2.24	117.2	-8.32	22.77	28.45	36.47	0.12	240.9	46.68	58.32

Minimum SWR

SWR 4.421740	1.14	14.52	-23.6	1.87	56.72	56.77	0.01	3479	56.80	1720
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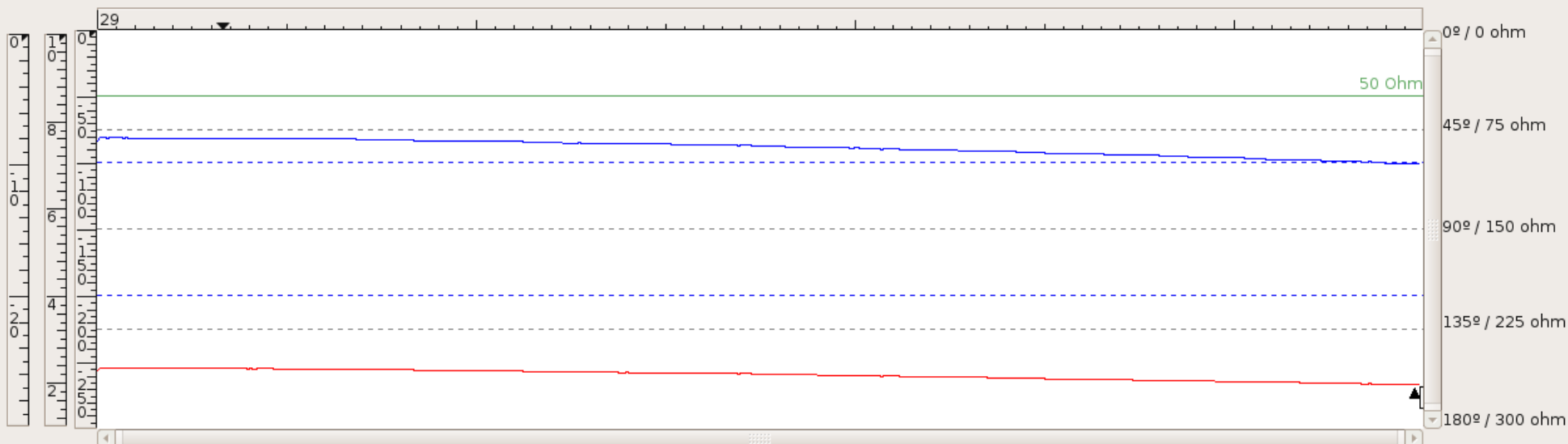
HOLD



Save

R.L. SWR Ø

PHASE/X-R-Z



FREQUENCY SWEEP LIMITS

29.700001 Mhz (max) Samples 500
 29.000000 Mhz (min) **RUN**

LINE ENABLE

SWR Phase R.L. / dB |Xs| / ohm Rs / ohm |Z| / ohm

MARKERS

<input type="checkbox"/> Single marker		SWR	PHASE	RETURN LOSS	Xs	Rs	Z	X->L	X->C	Rp	Xp	
	MK1	9.095200	2.27	175.1	-8.20	1.71	22.0E	22.10	0.01	3202.	22.1E	285.7
	MK2	9.000000	2.24	117.2	-8.32	22.7	28.4E	36.4	0.12	240.9	46.6E	58.32

Minimum SWR

	SWR	9.695801	1.91	95.0E	-10.0	27.0	39.10	47.5E	0.15	197.9	57.8E	83.52
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