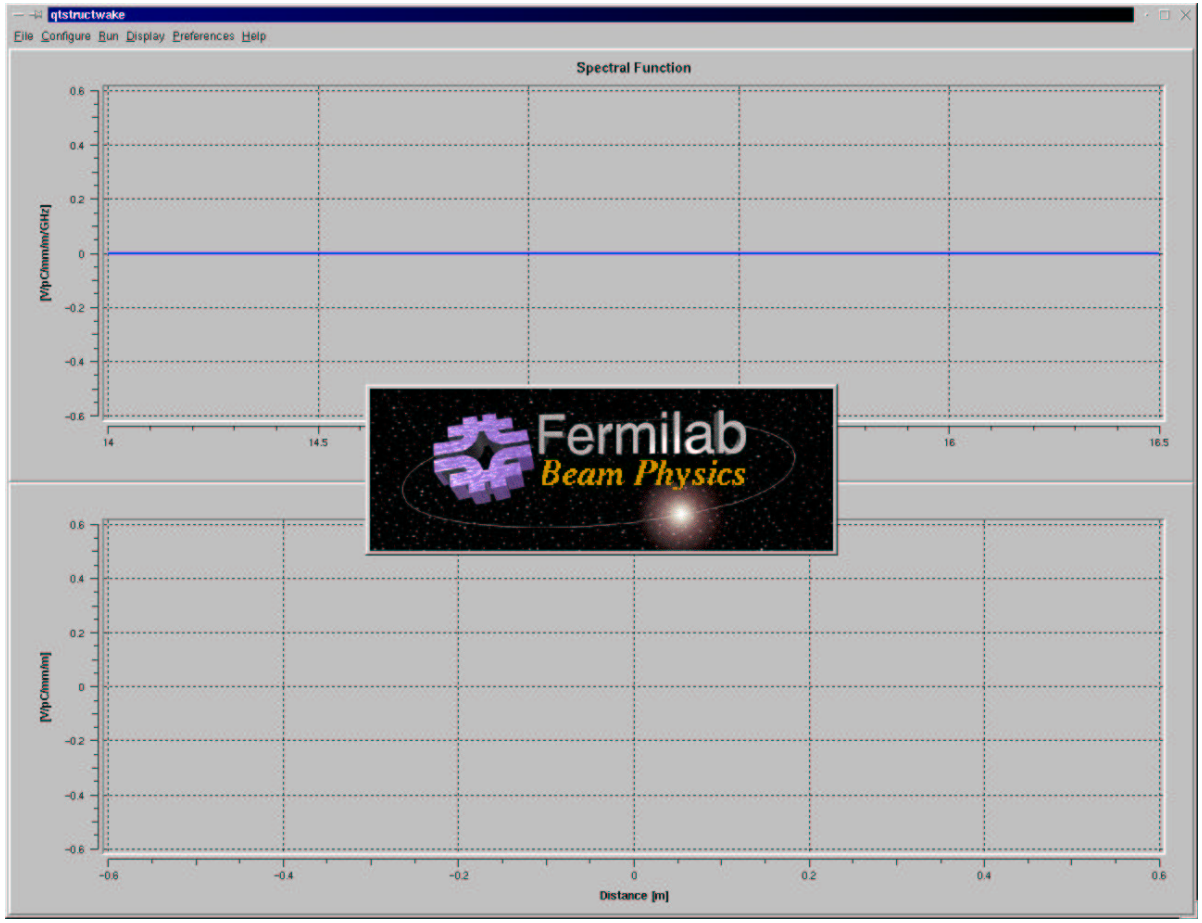
Wakefield Computation Program

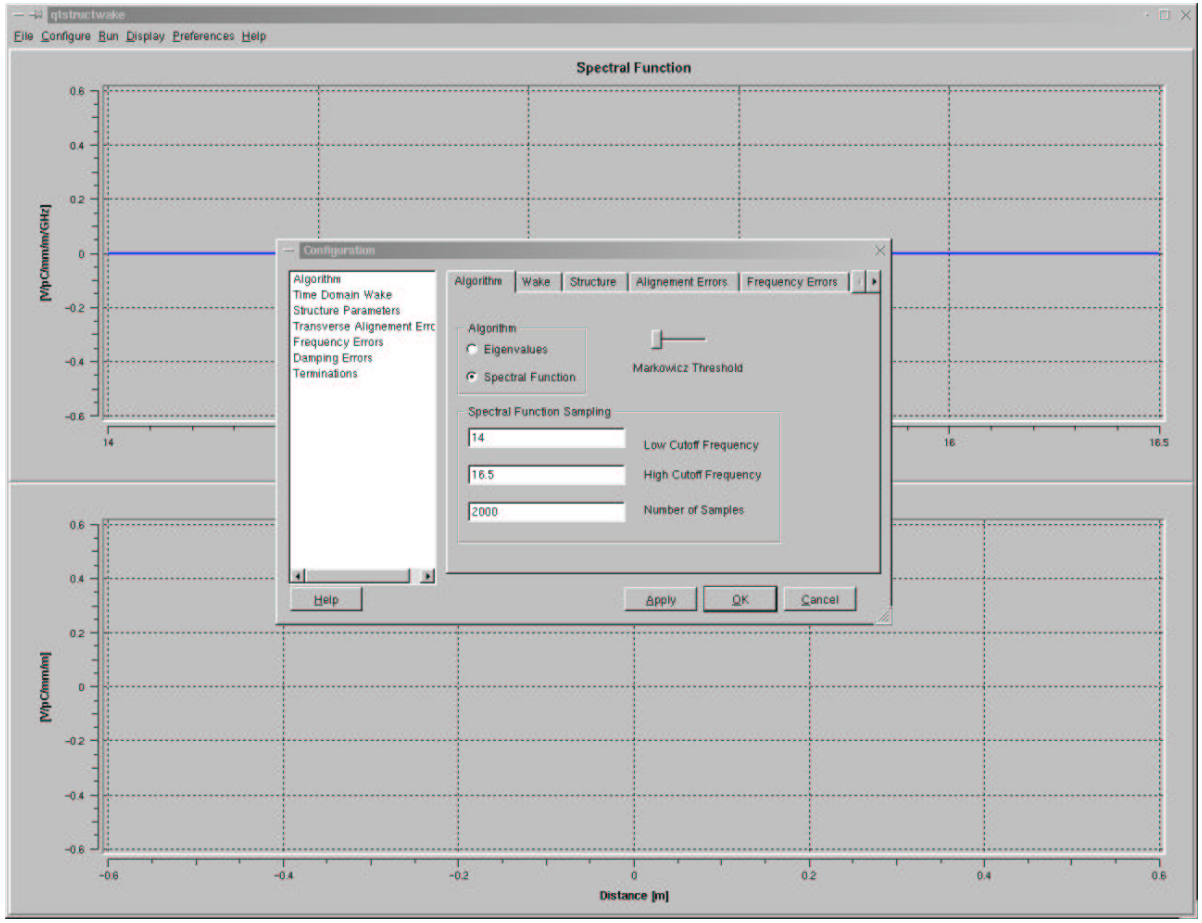
Jean-François Ostiguy
Beam Physics Department

Video Conference - May 9 2001

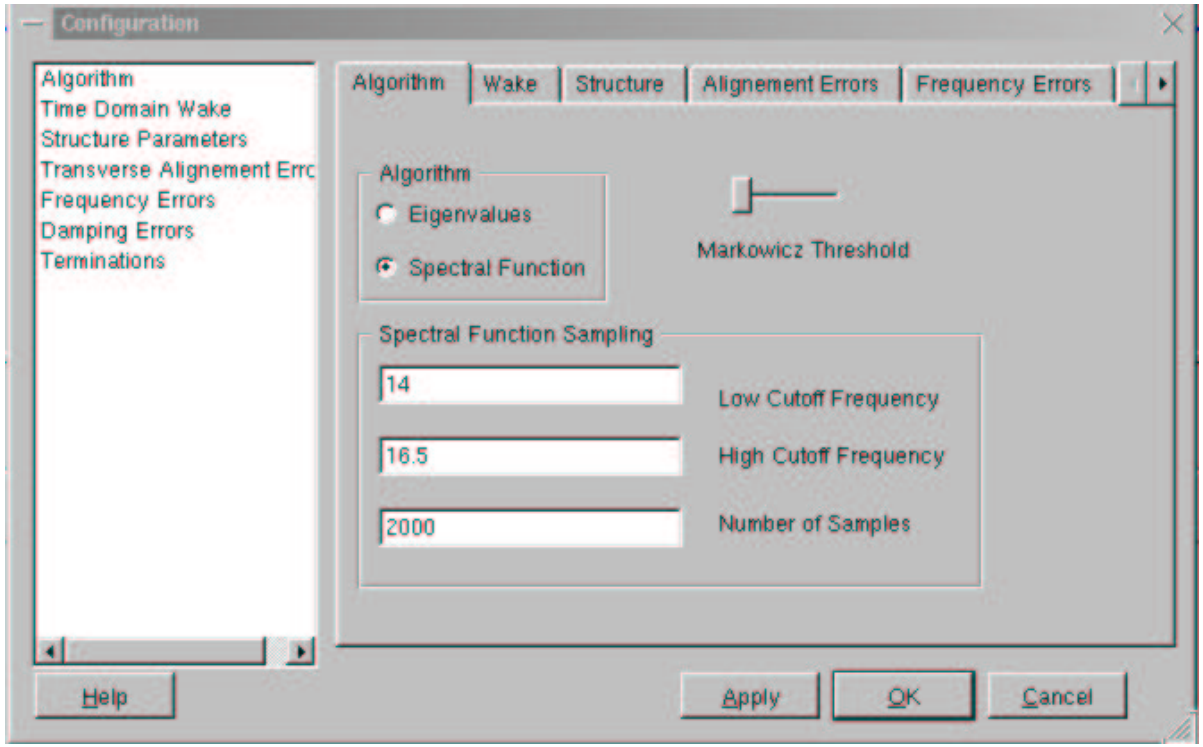
Splash Screen !



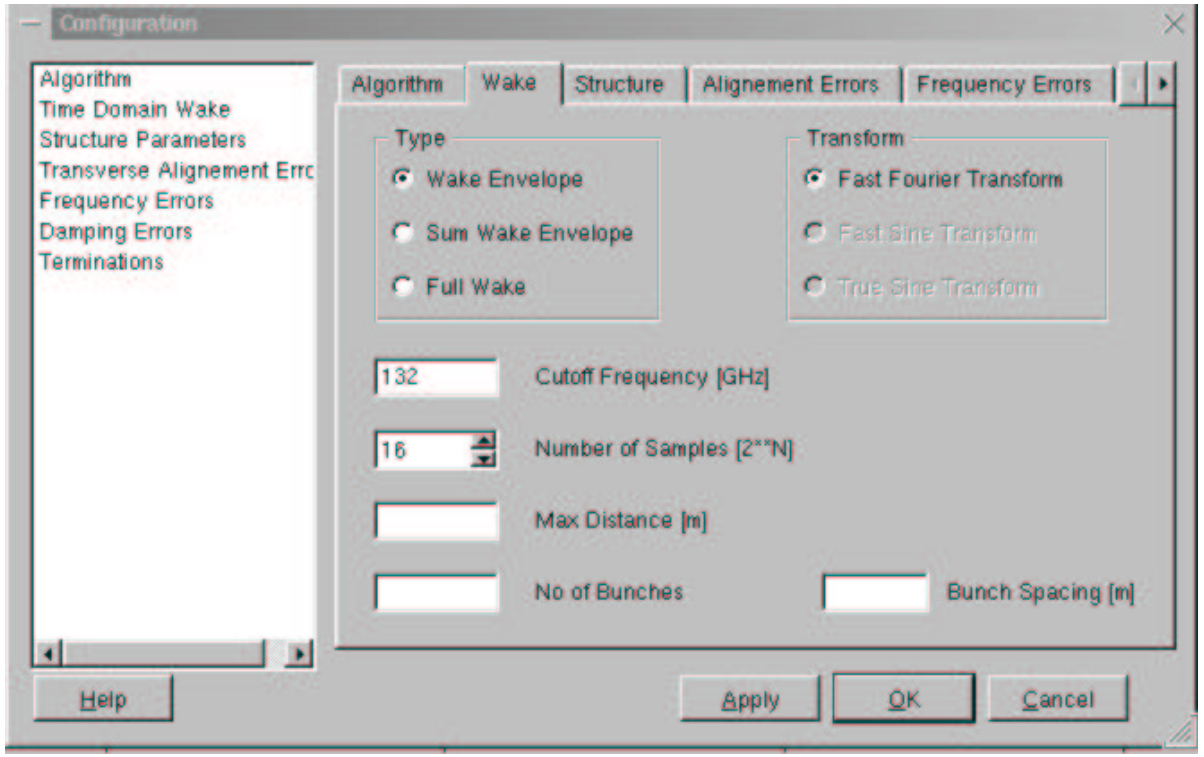
Configuration



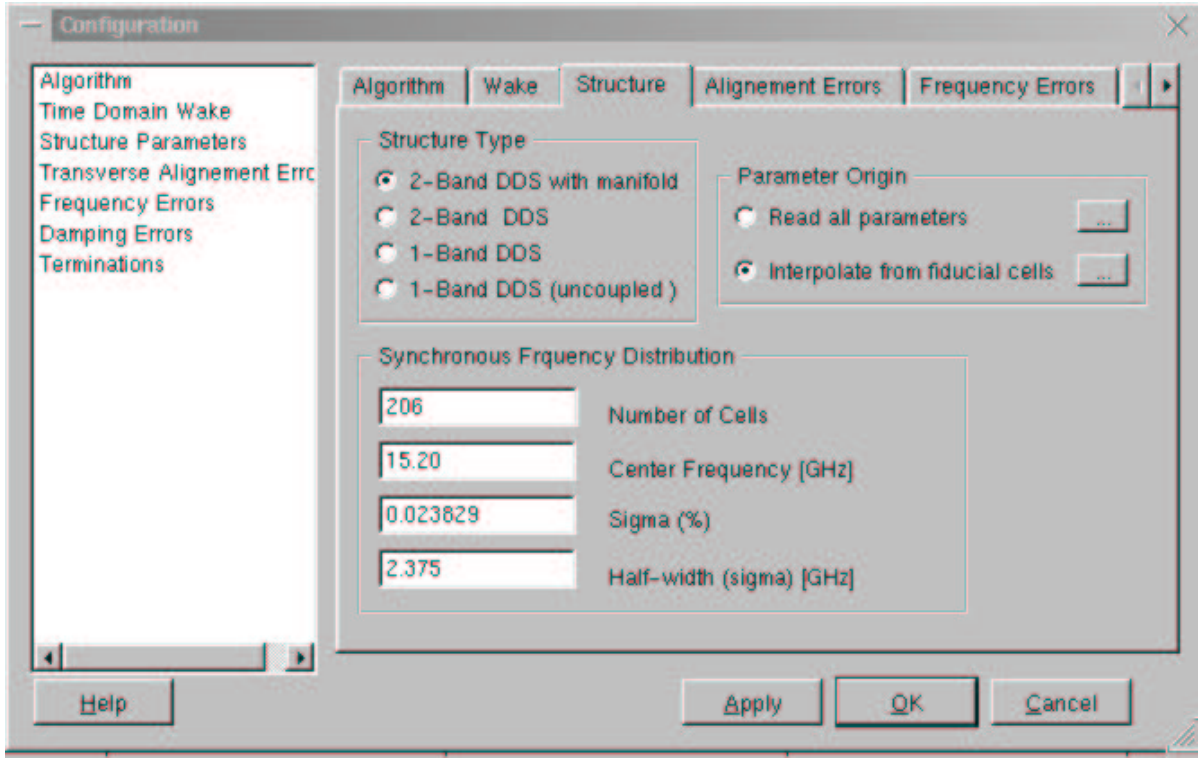
Algorithm Configuration



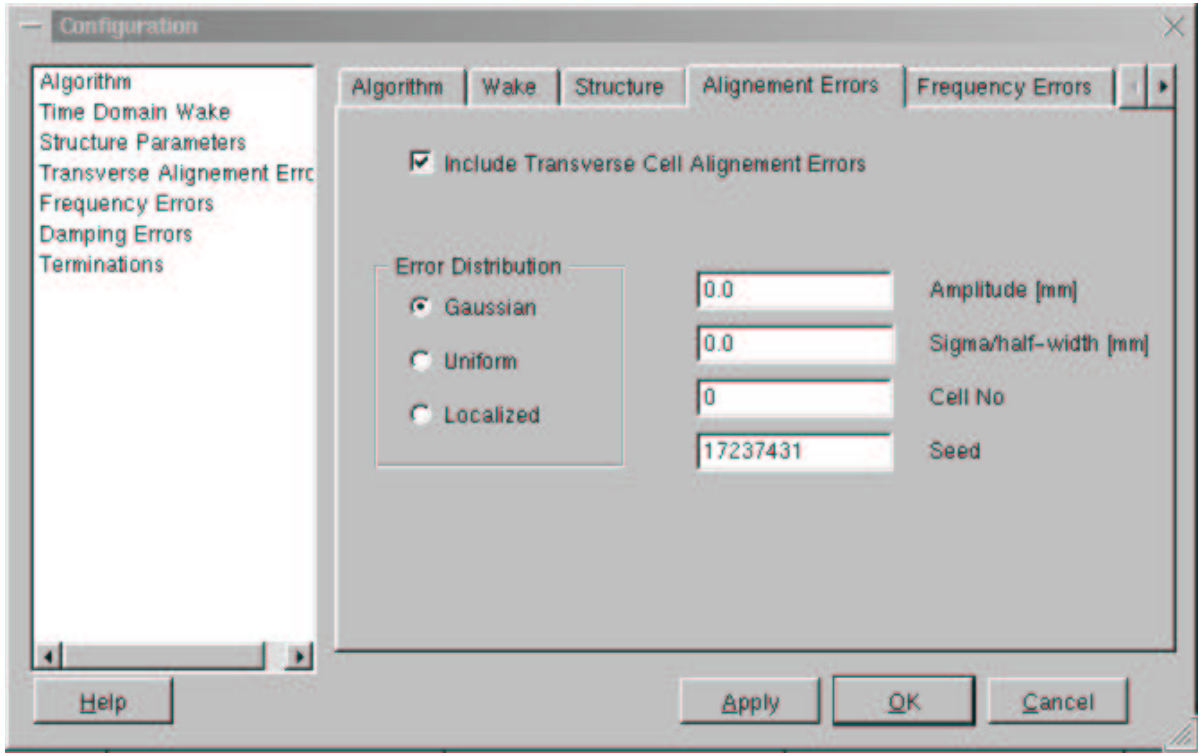
Wakefield Computation Configuration



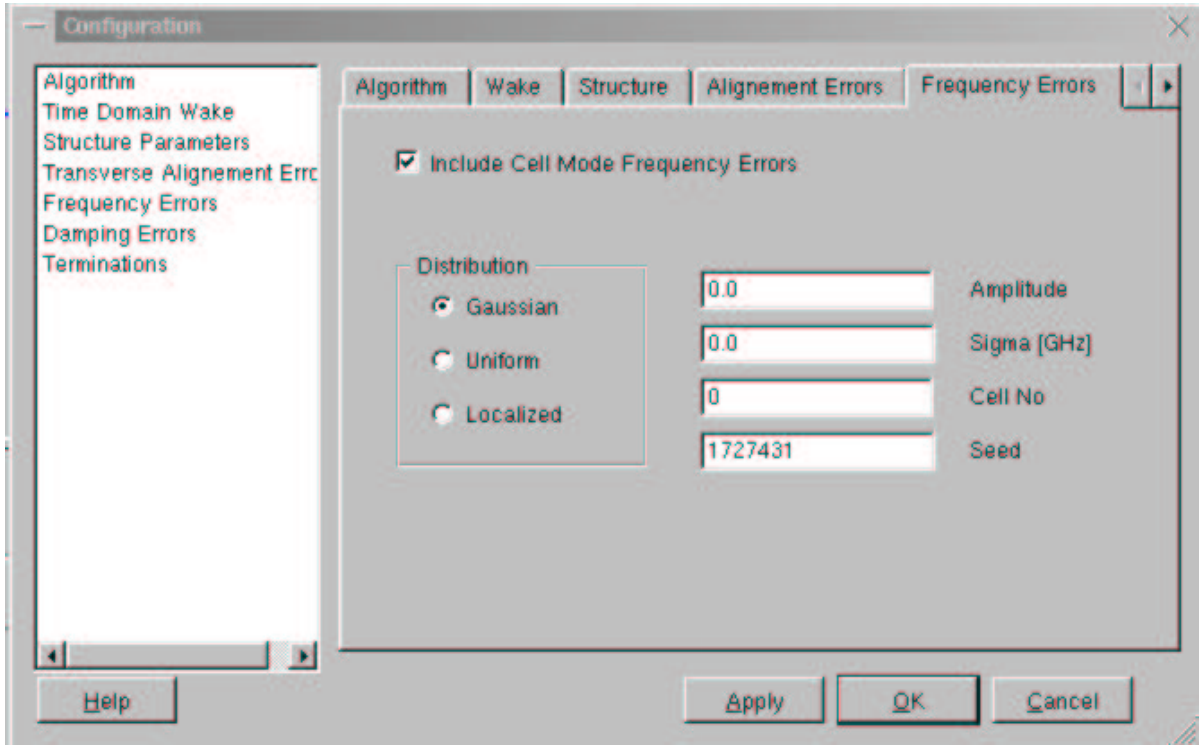
Structure Type Configuration



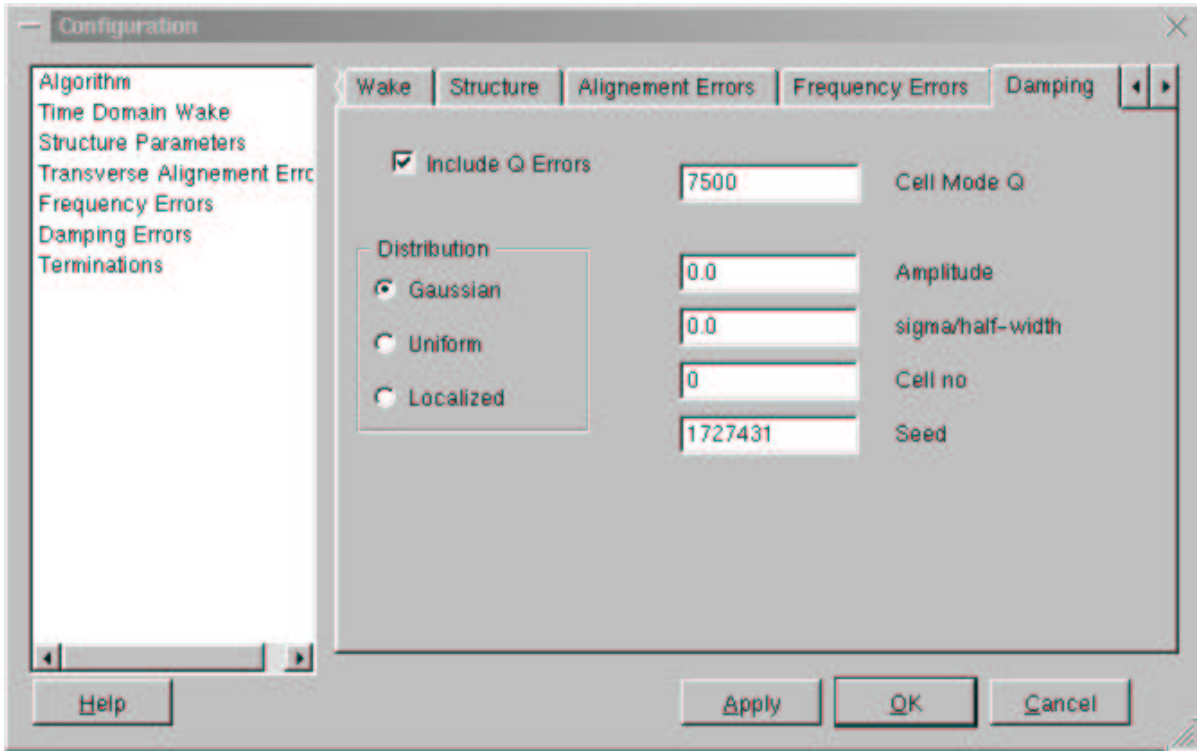
Alignement Errors



Frequency Errors



Q Errors


Configuration
Algorithm
Time Domain Wake
Structure Parameters
Transverse Alignement Erro
Frequency Errors
Damping Errors
Terminations
Wake
Structure
Alignement Errors
Frequency Errors
Damping
Include Q Errors
7500
Cell Mode Q
Distribution
Gaussian
Uniform
Localized
0.0
Amplitude
0.0
sigma/half-width
0
Cell no
1727431
Seed
Help
Apply
OK
Cancel

Explicit Eigenmode Computation

Mode Frequencies

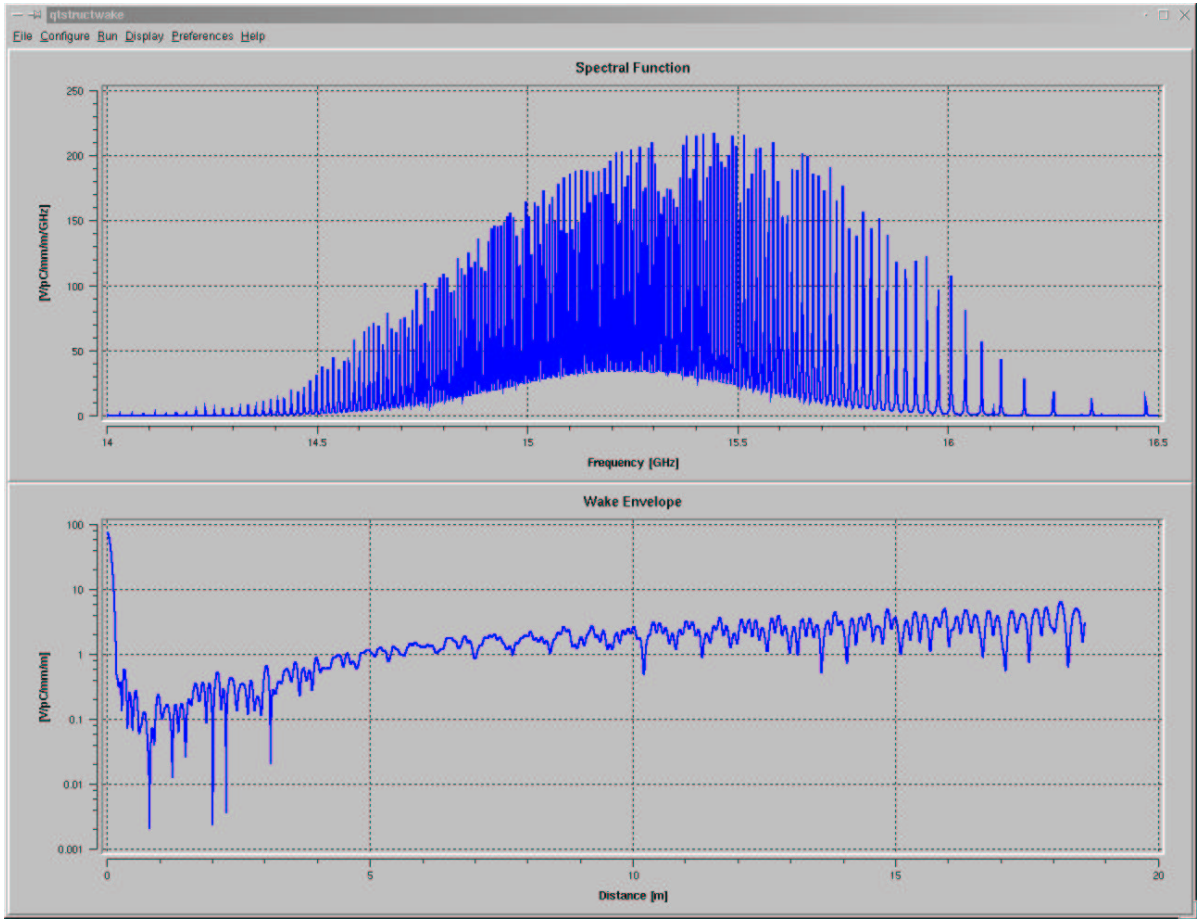
	1	2
1	0	21.448
2	1	21.1346
3	2	21.0003
4	3	20.9418
5	4	20.9099
6	5	20.841
7	6	20.785
8	7	20.7377
9	8	20.6967
10	9	20.6604
11	10	20.6279
12	11	20.5982
13	12	20.5709
14	13	20.5452
15	14	20.5208
16	15	20.4974
17	16	20.4747
18	17	20.4572
19	18	20.4525
20	19	20.4306
21	20	20.409
22	21	20.3877
23	22	20.3666
24	23	20.3458
25	24	20.3255
26	25	20.3065
27	26	20.3056

Explicit Eigenmode Computation

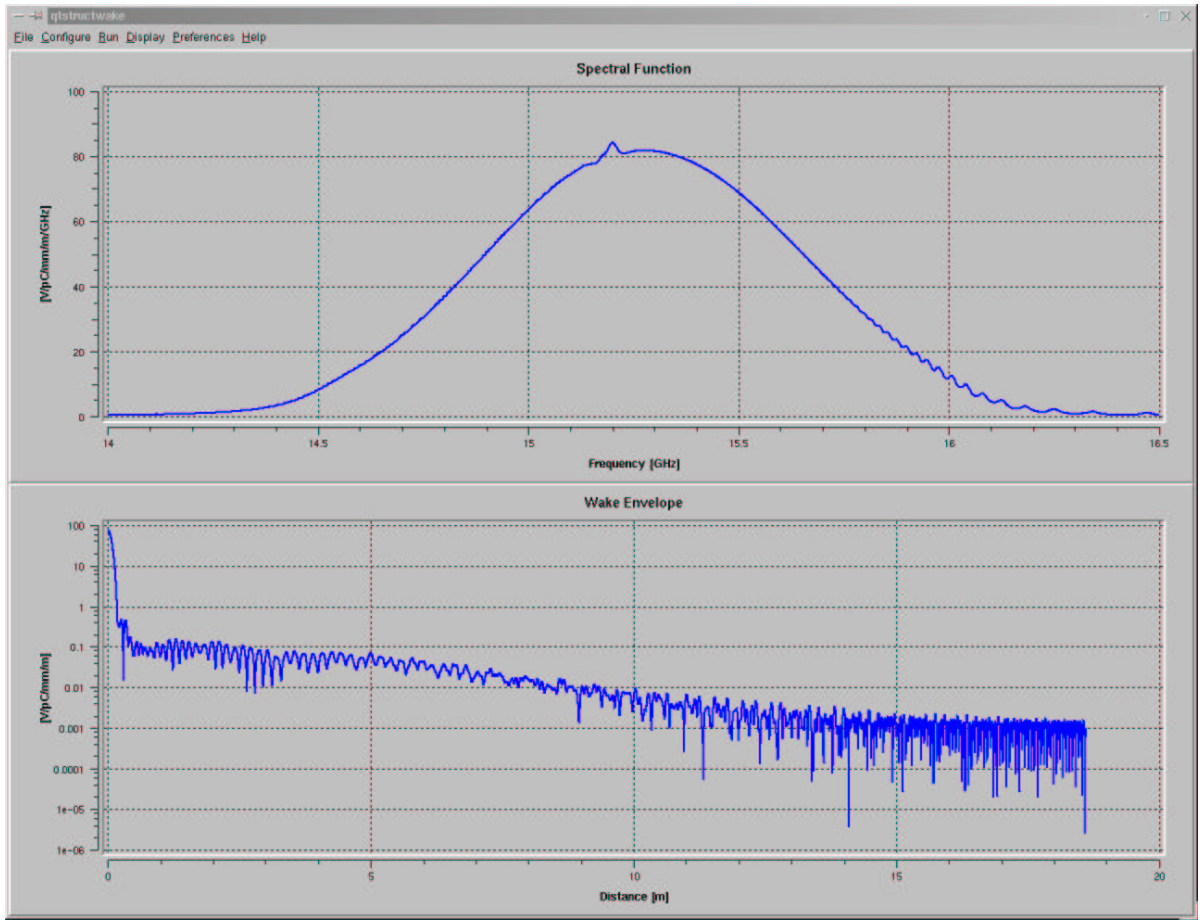
Mode Frequencies

	1	2
386	385	14.2337
387	386	14.2114
388	387	14.1883
389	388	14.1644
390	389	14.1396
391	390	14.1138
392	391	14.087
393	392	14.0591
394	393	14.03
395	394	13.9996
396	395	13.9678
397	396	13.9343
398	397	13.8991
399	398	13.8619
400	399	13.8225
401	400	13.7805
402	401	13.7355
403	402	13.6871
404	403	13.6346
405	404	13.5771
406	405	13.5136
407	406	13.4423
408	407	13.3607
409	408	13.2648
410	409	13.1473
411	410	12.9927
412	411	12.7551

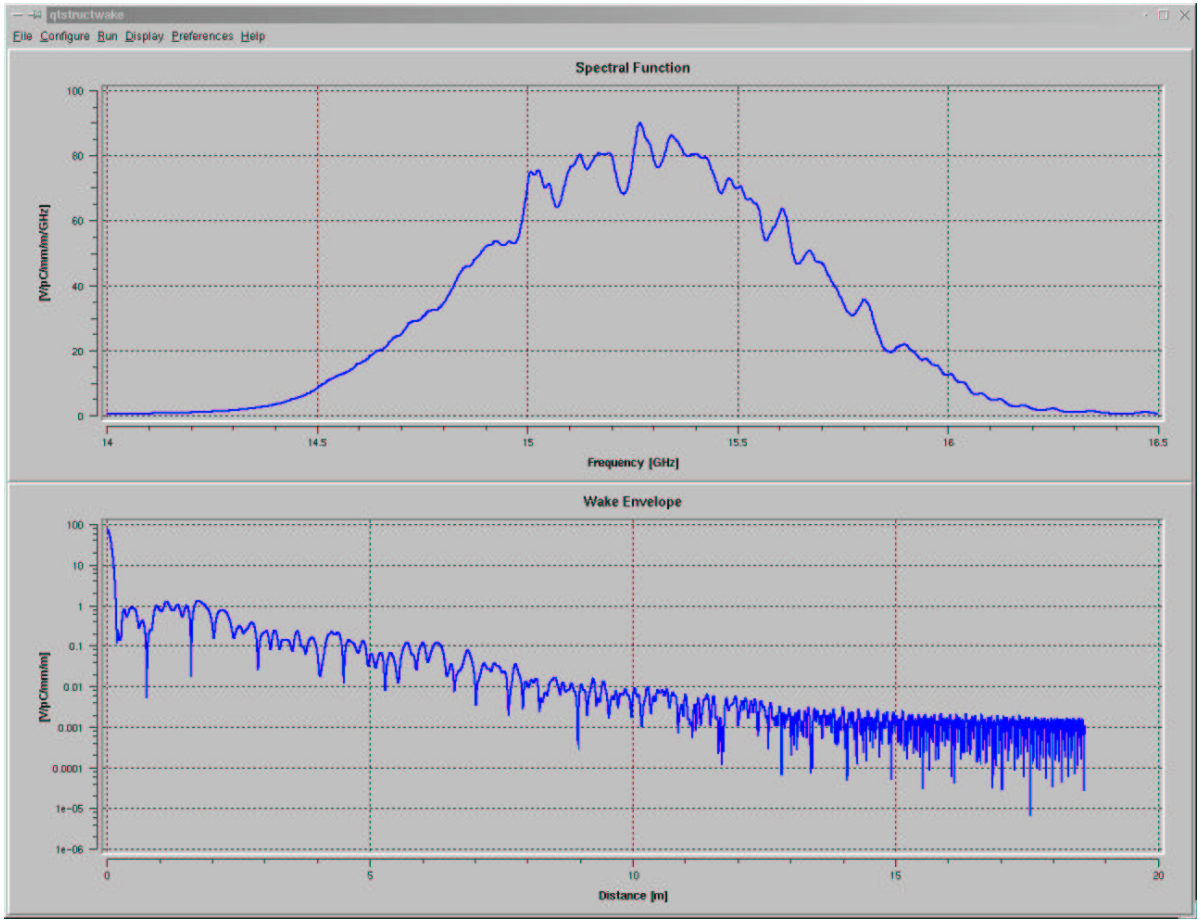
RDDS Baseline



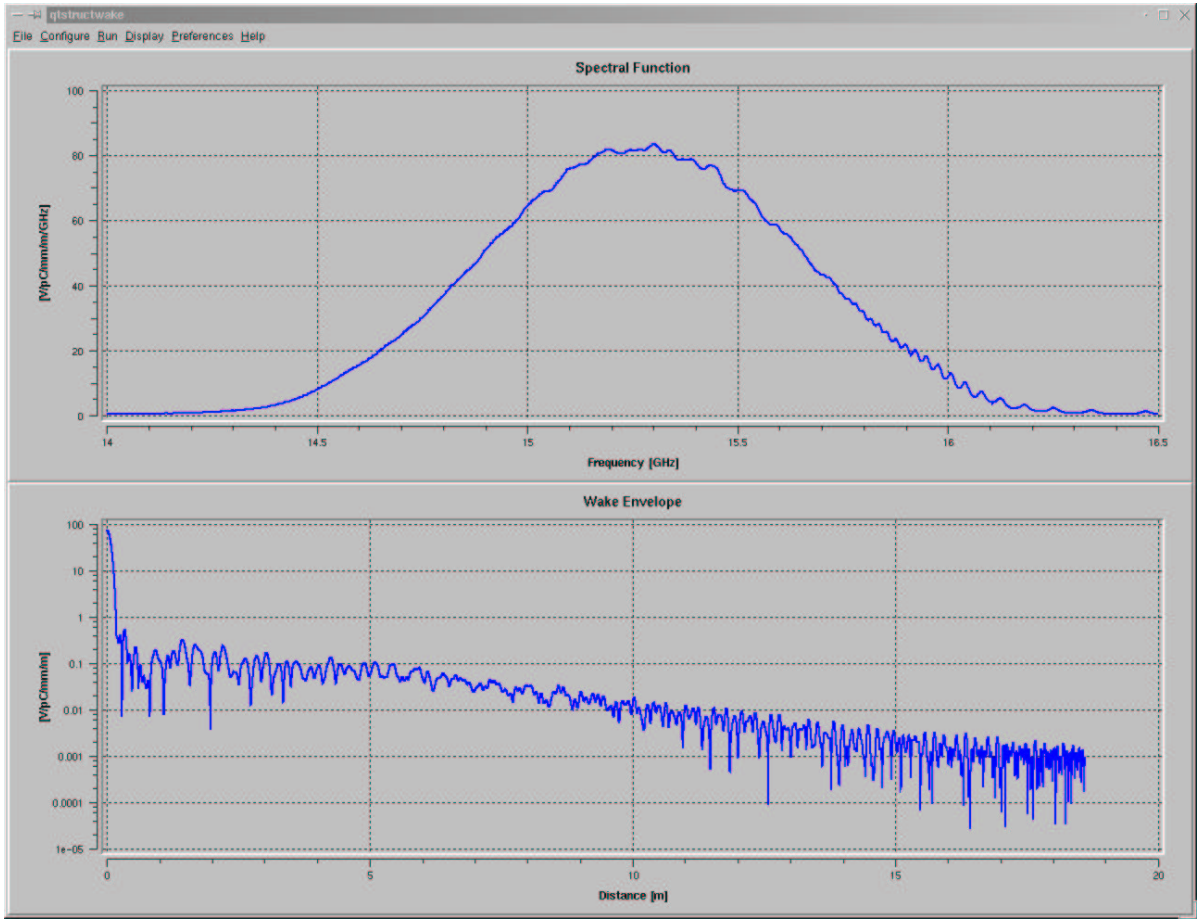
MDS 2-band $Q = 500\ Q(100) = 1000$



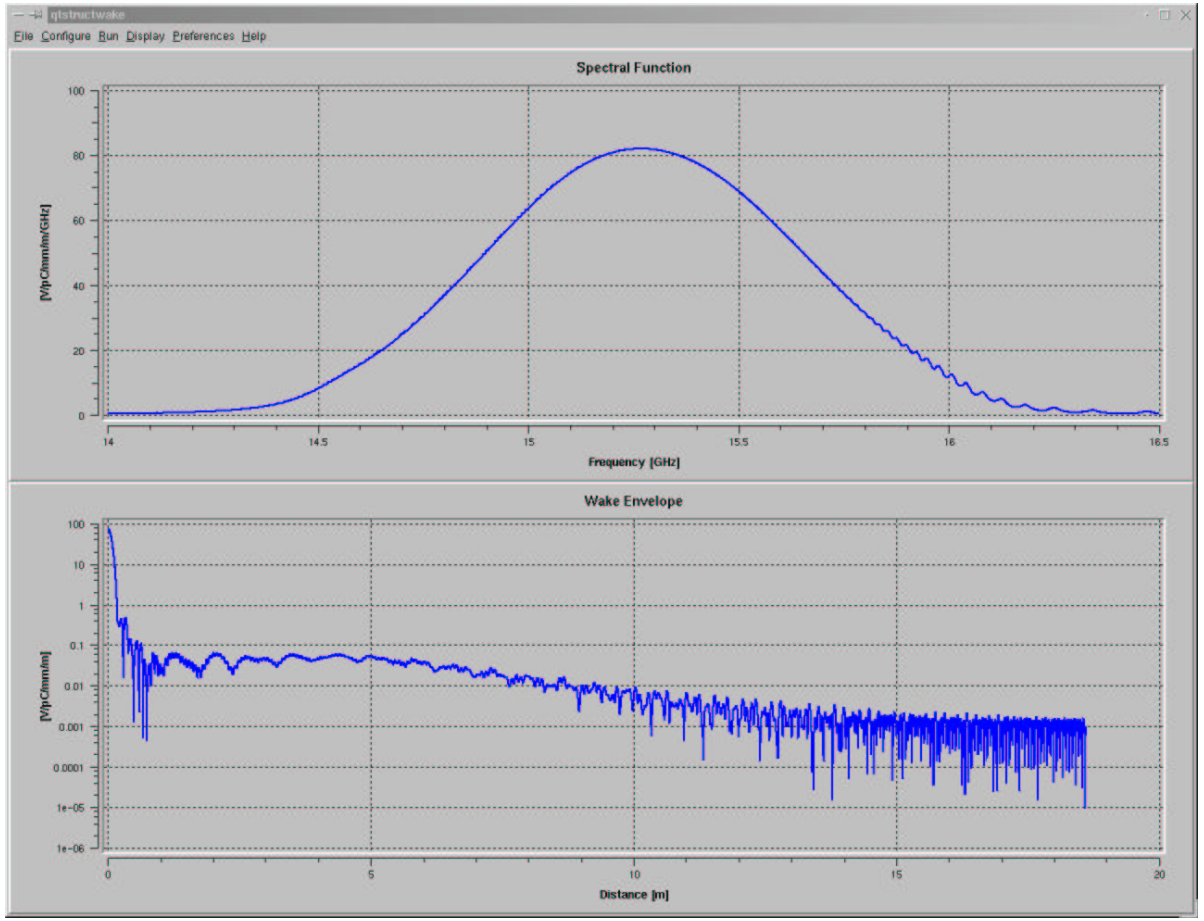
MDS 2-band $Q = 500$ $\sigma_Q = 150$



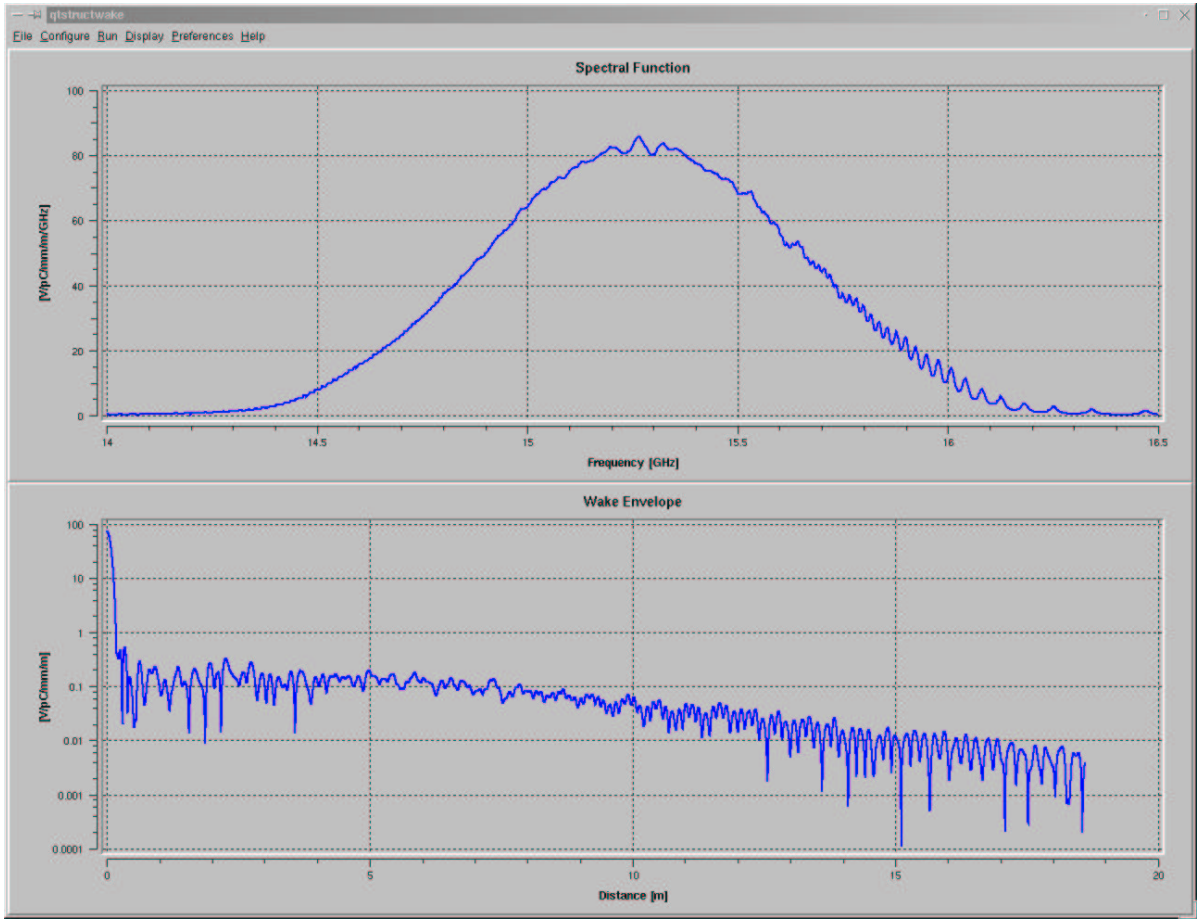
MDS 2-band $Q = 500$ $w_Q = 150$



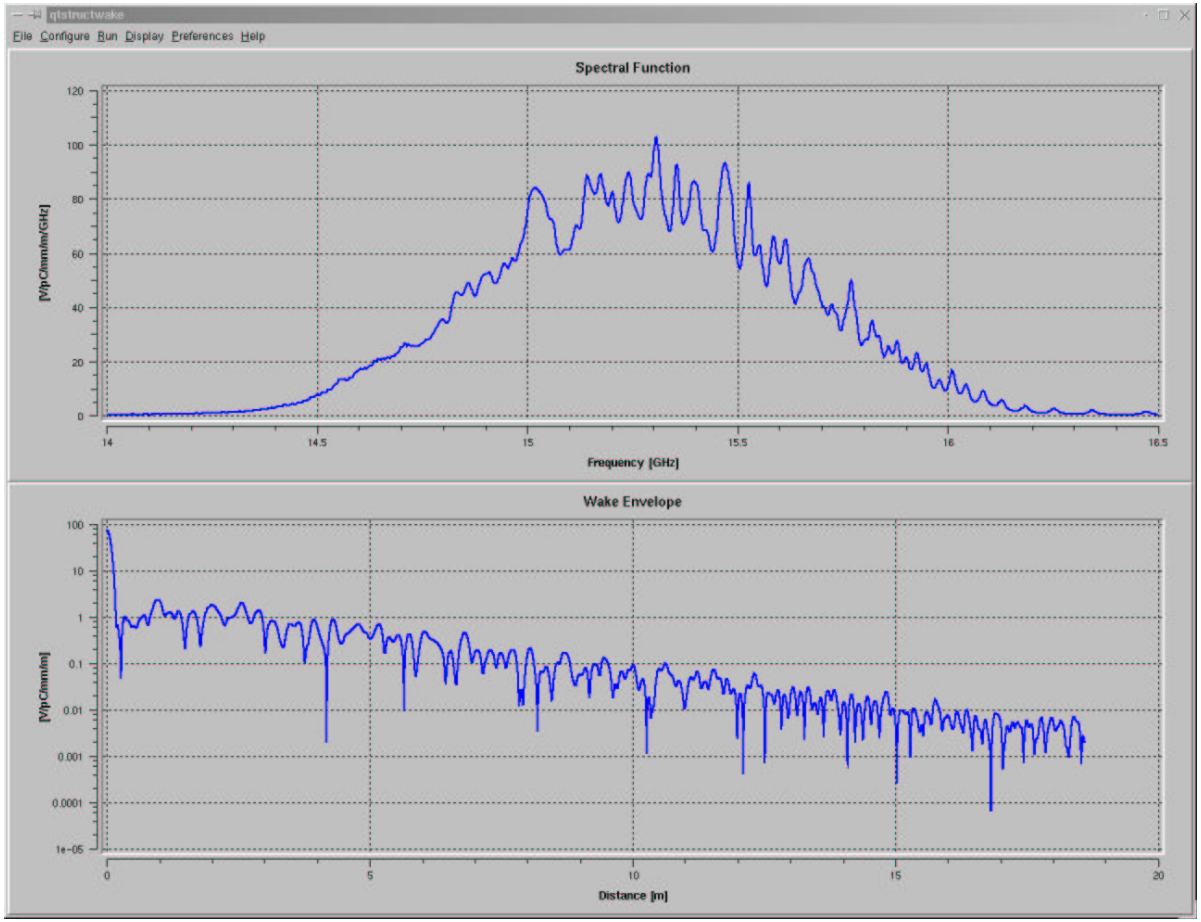
MDS 2-band $Q = 500$ baseline



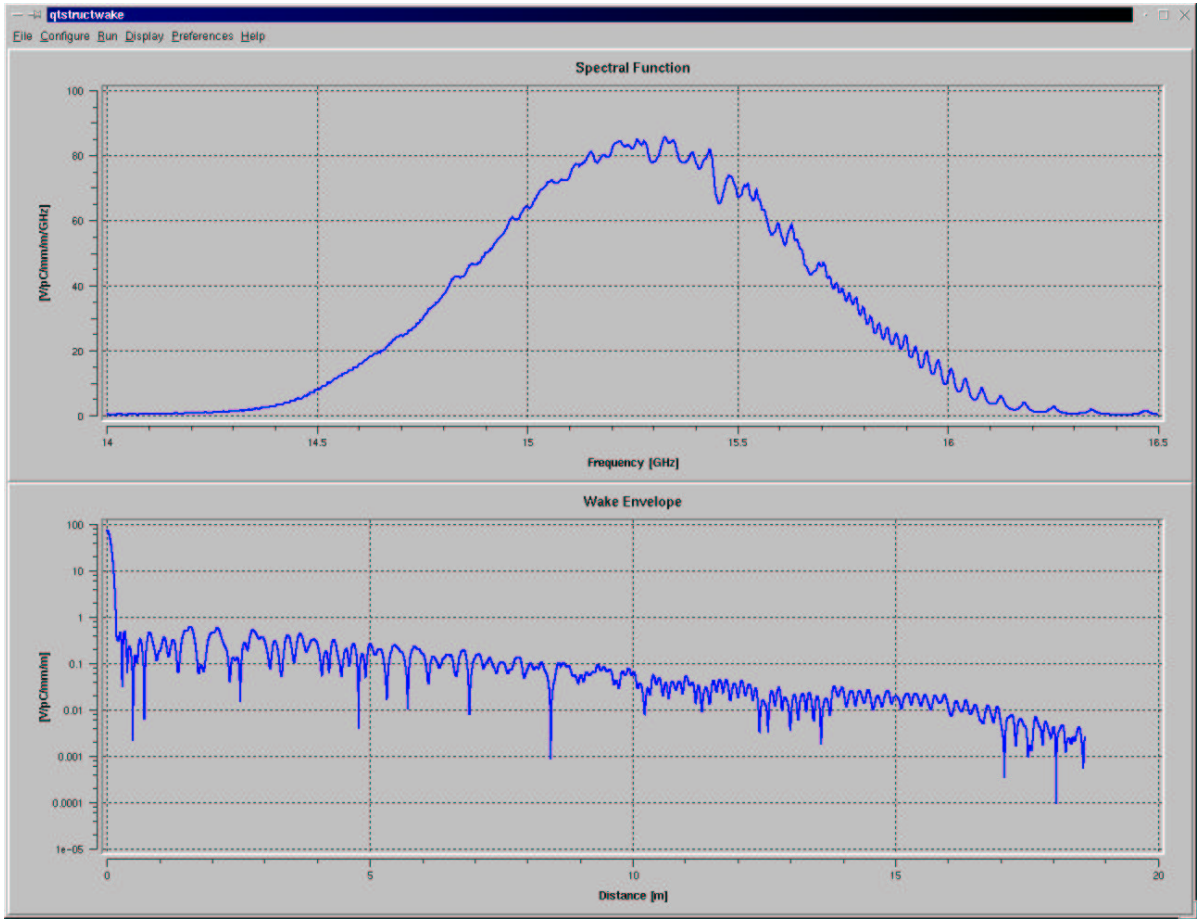
MDS 2-band $Q = 750$ $\sigma_f = 0.001$



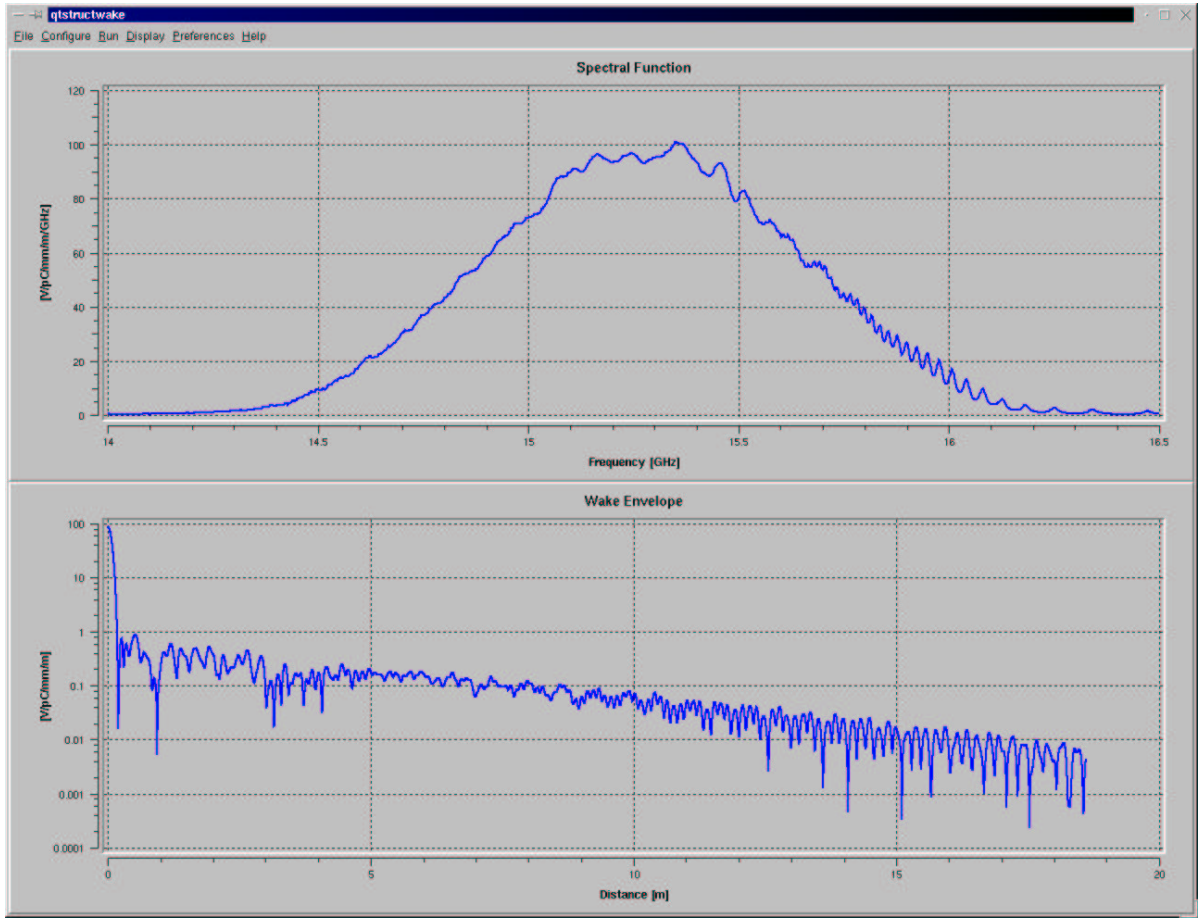
MDS 2-band $Q = 750$ $\sigma_f = 0.01$



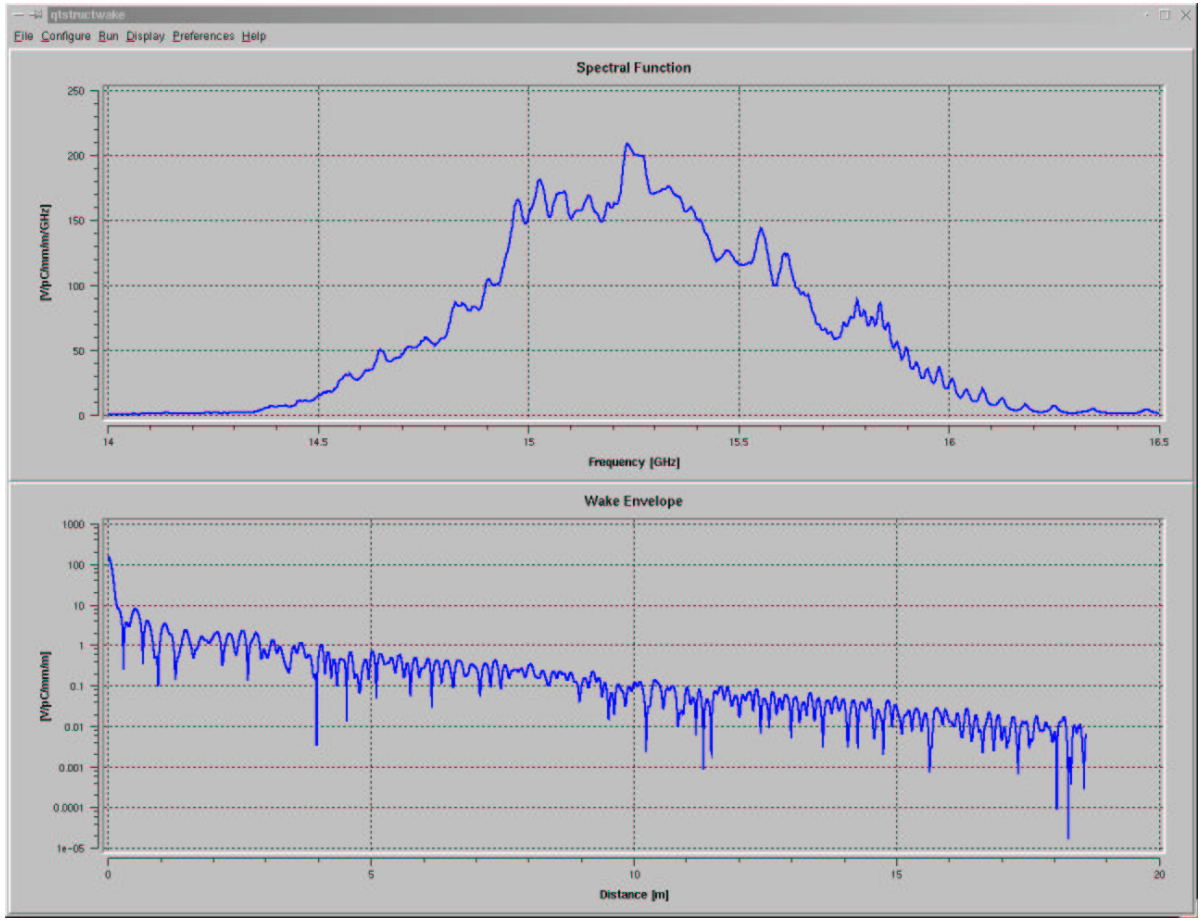
MDS 2-band $Q = 750$ $\sigma_q = 150$



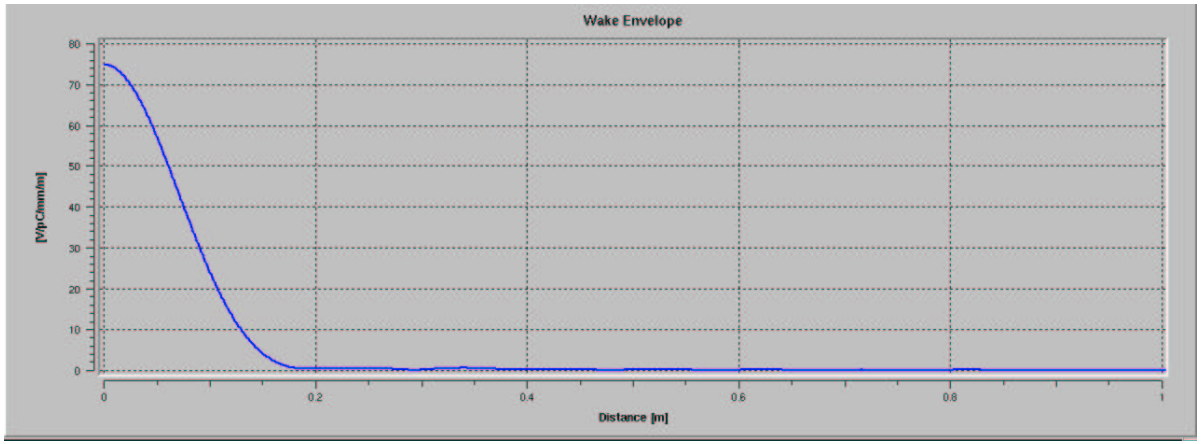
MDS 2-band $Q = 750\ \sigma_r = 0.1$



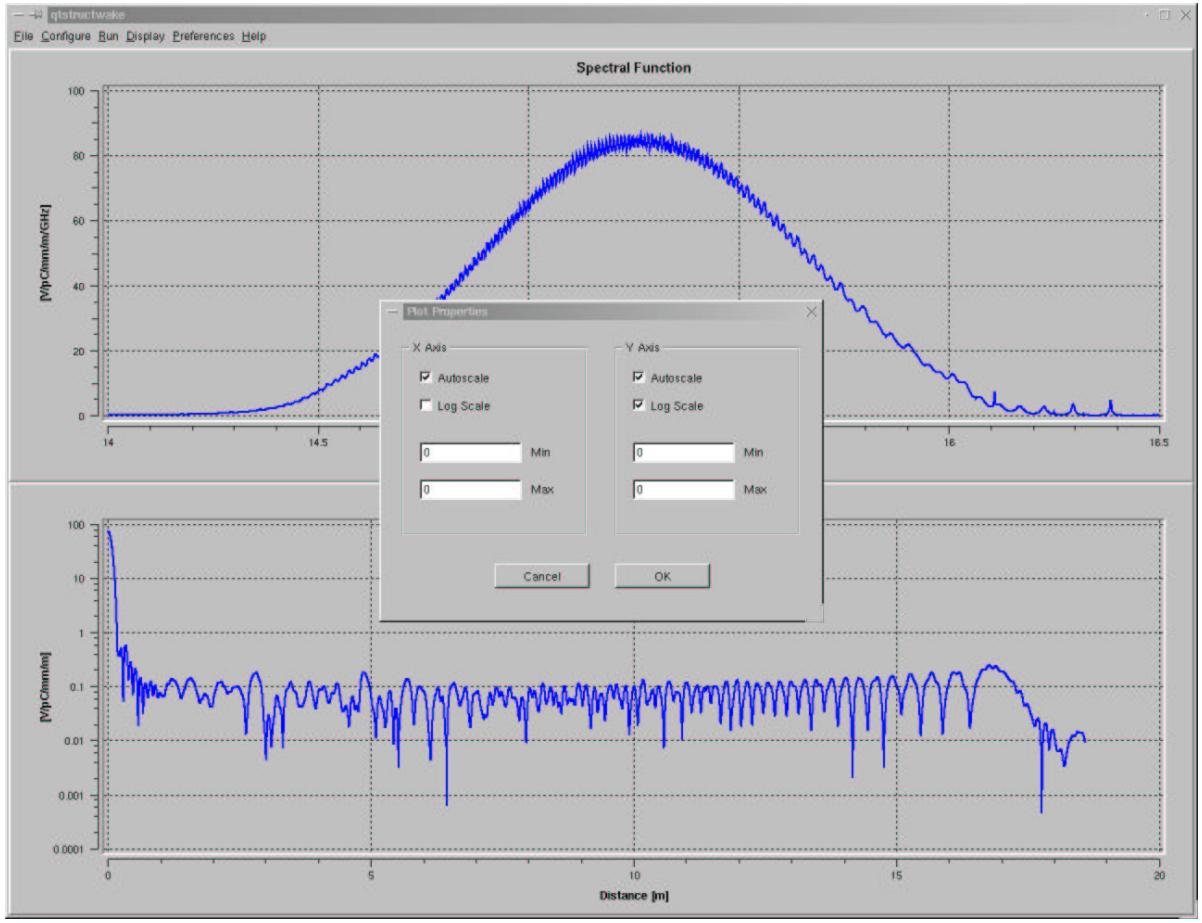
MDS 2-band $Q = 750\ \sigma_r = 0.5$



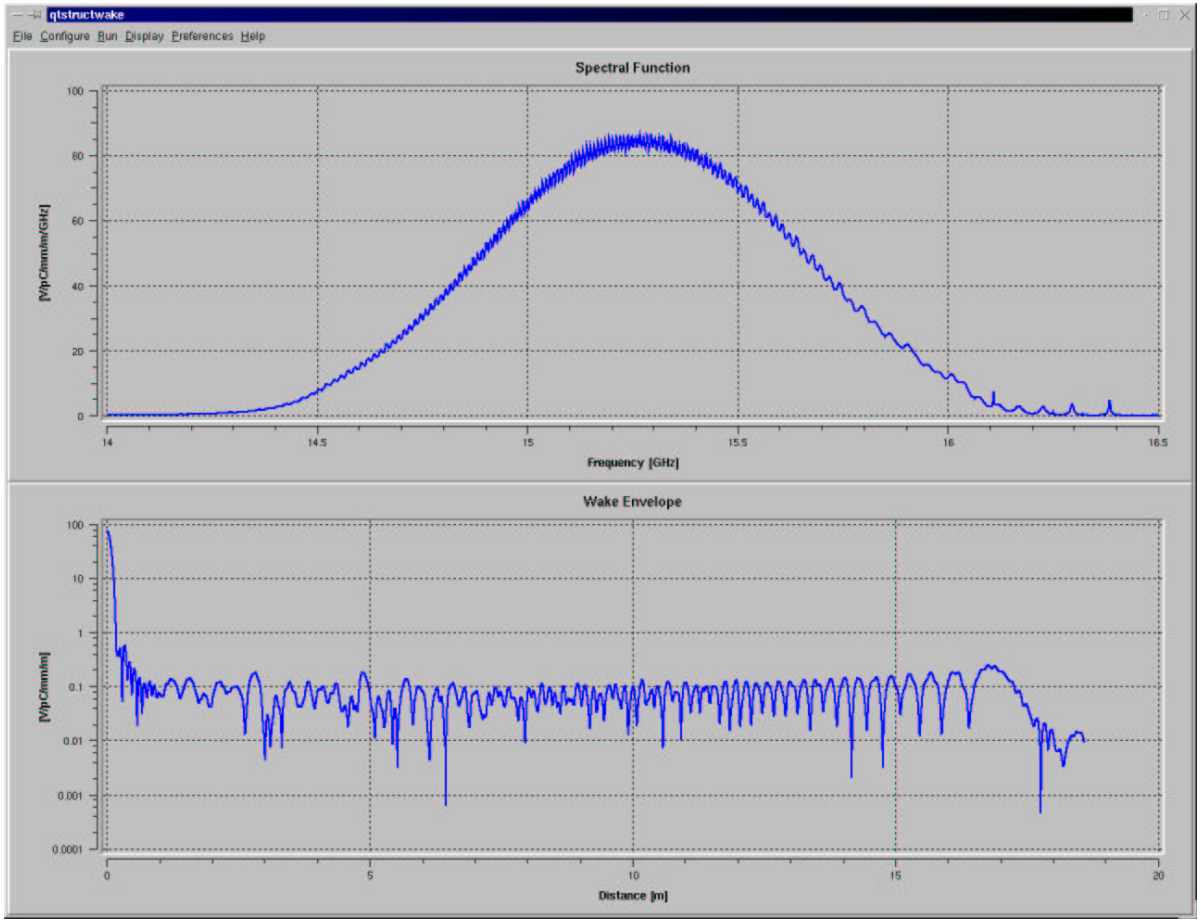
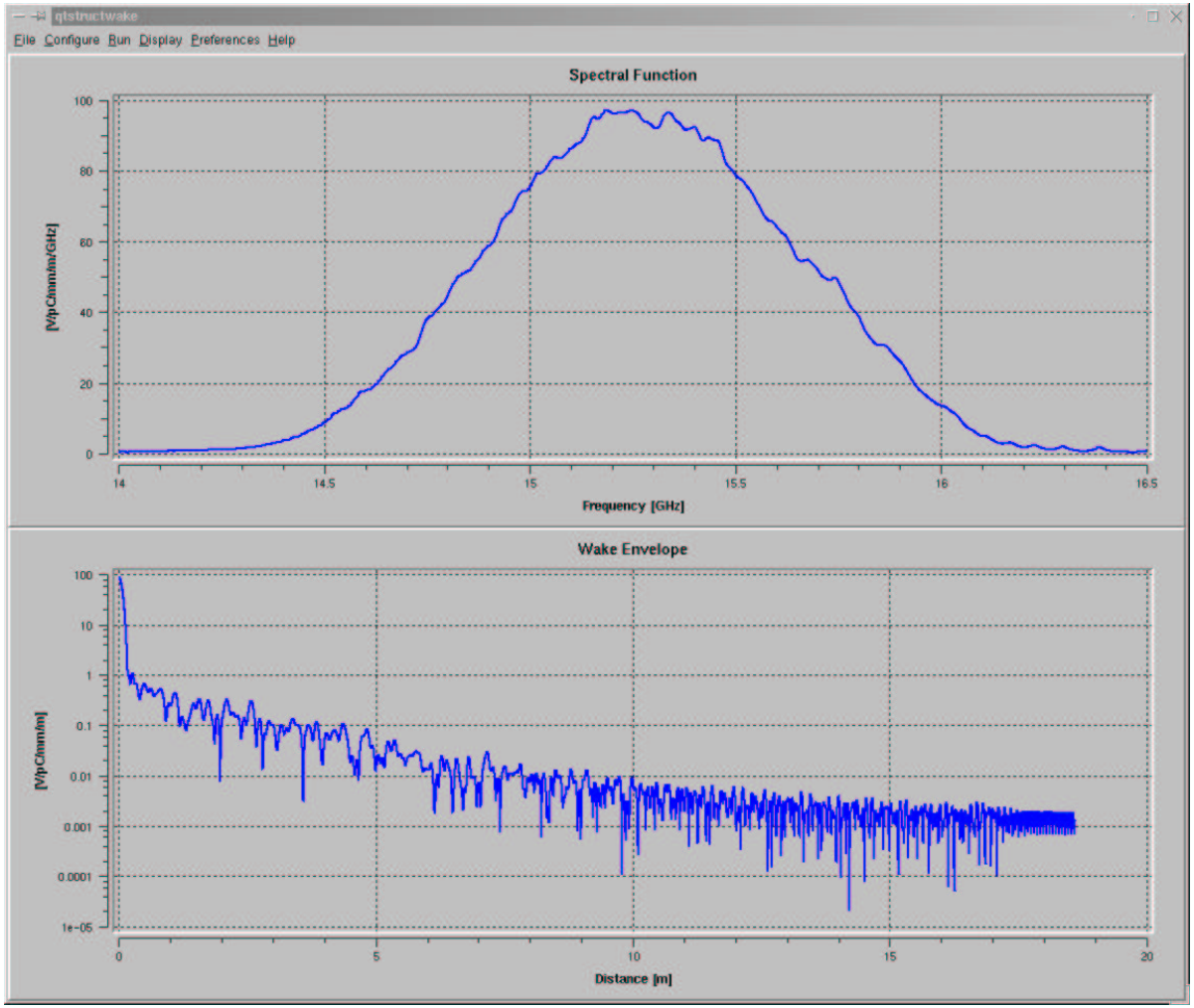
RDDS Baseline



Scaling Option



RDDS Baseline



RDDS $\sigma_r = 0.1$