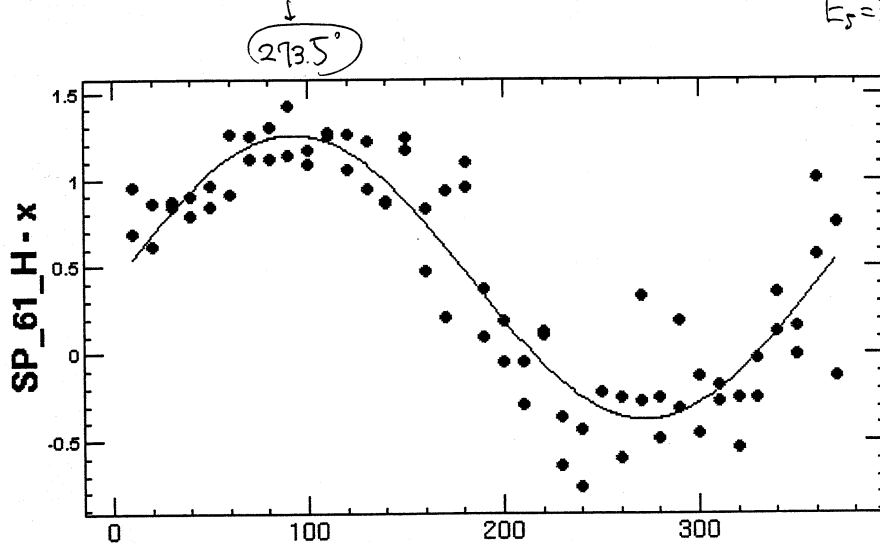


ChiSquare = 4.86495 Goodness = .47768  
 $a = .81747 \pm .04361$   $c = -1167.5 \pm 2.98098$   $d = .43852 \pm .03045$

$E_5 = 35.0 \text{ kV}$

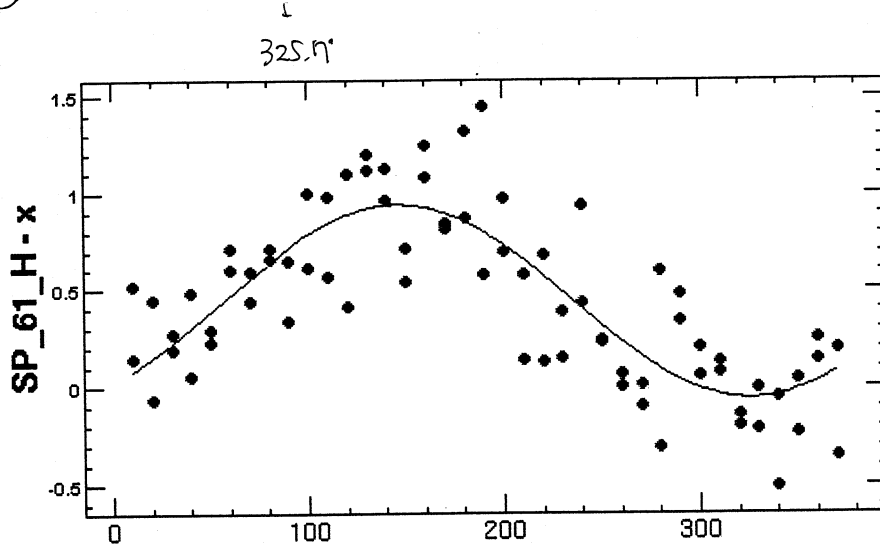


Function =  $(d + (a \cdot \text{Cos}[(.017453292500000002 \cdot (-180 + x + (-c)))]))$   
 KL\_21 - phase

KL\_21 vs SP\_61\_H on 172.19.66.32:3.0

ChiSquare = 4.80360 Goodness = .47768  
 $a = -.49752 \pm .04278$   $c = 145.714 \pm 4.93042$   $d = .44007 \pm .03026$

$E_5 = 35.0 \text{ kV}$



Function =  $(d + (a \cdot \text{Cos}[(.017453292500000002 \cdot (-180 + x + (-c)))]))$   
 KL\_21 - phase

KL\_21 vs SP\_61\_H on 172.19.66.32:3.0

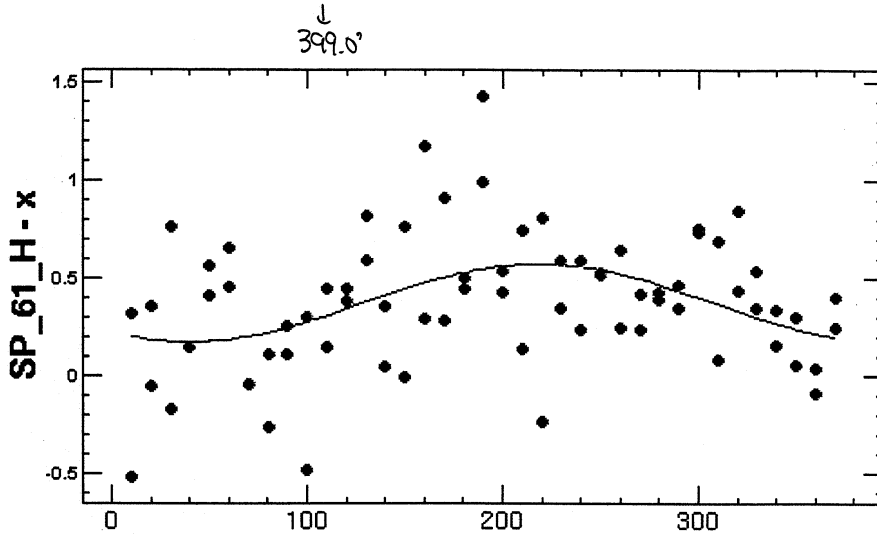
ChiSquare = 7.31185 Goodness = .47768

$a = -20025 \pm .05242$

$c = 218.969 \pm 15.2225$

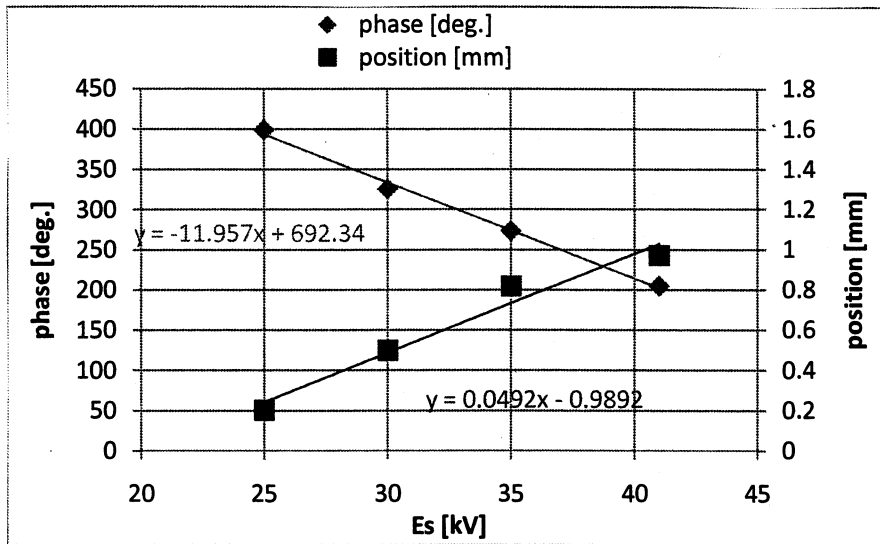
$d = .37513 \pm .03733$

$E_s = 25.0 \text{ kV}$



Function = (d+(a Cos[(.017453292500000002 (-180+x+(c))))]))

KL\_21vsSP\_61\_H on 172.19.66.32:3.0



position	$E_s$	ph
1	40.4	208.9
0.75	35.3	269.7
0.5	30.3	330.4
0.25	25.2	391.2

208.9 - 165.1 = 43.8  
~~343.2 - 208.9~~

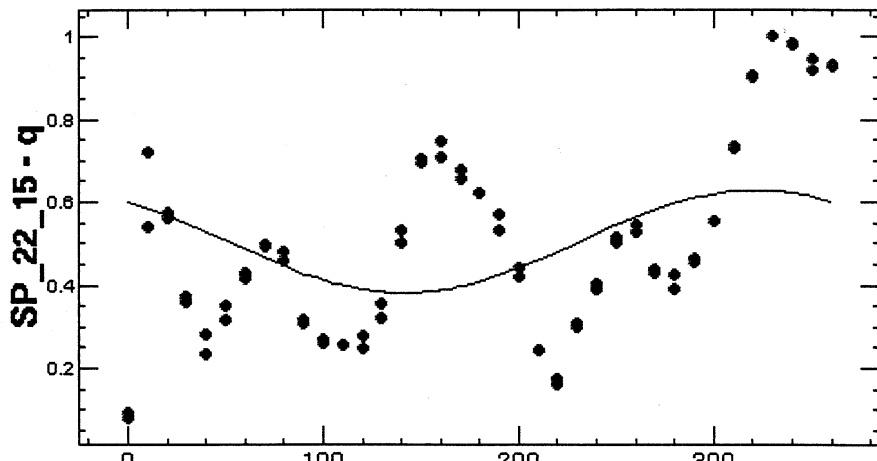
$E_{acc}$ (mm)	$E_s$	$\phi$	$E_s$	$\phi$	$\Delta\phi$
① 1.6	39.4	165.1	40.4	208.9	$\Rightarrow 43.8^\circ$
② 1.2	34.6	224.4	35.3	269.7	$\Rightarrow 45.3^\circ$
③ 0.8	29.7	283.8	30.3	330.4	$\Rightarrow 46.6^\circ$
0.4					
④ 1.4	37.0	194.8	37.9	239.3	$\Rightarrow 44.5^\circ$
⑤ 1.5	38.2	179.9	39.2	224.1	$\Rightarrow 44.2^\circ$
⑥ 1.3	35.8	209.6	36.6	254.5	$\Rightarrow 44.9^\circ$
⑦ 1.0	32.1	254.1	32.8	300.0	$\Rightarrow 45.9^\circ$

1-8	$E_s$	Ph	2-1	$E_s$	Ph	$\Delta\phi$
1.6	39.4	165.1	1	40.4	208.9	43.8
1.5	38.2	179.9	0.9375	39.2	224.1	44.2
1.4	37.0	194.8	0.875	37.9	239.3	44.5
1.3	35.8	209.6	0.8125	36.6	254.5	44.9
1.2	34.6	224.4	0.75	35.3	269.7	45.2
1	32.1	254.1	0.625	32.8	300.0	45.9
0.8	29.7	283.8	0.5	30.3	330.4	46.6
0.4	24.9	343.2	0.25	25.2	391.2	48.0

File Edit Window 12/21/2010 23:13:43 Help

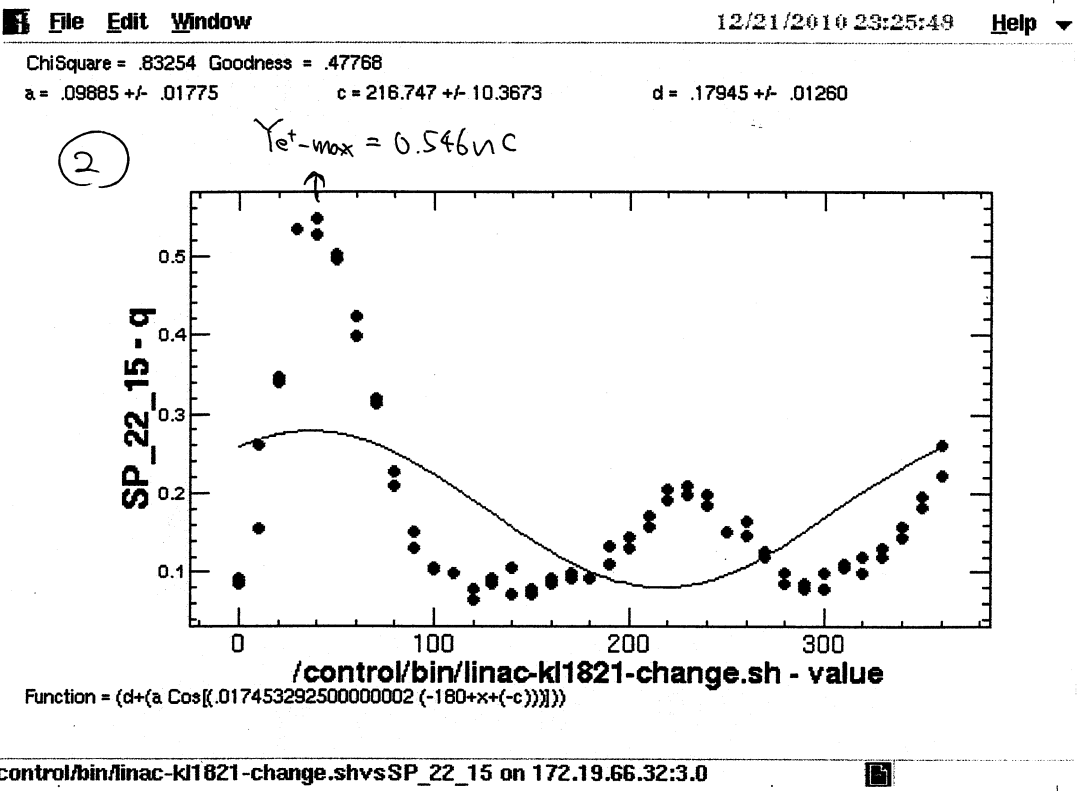
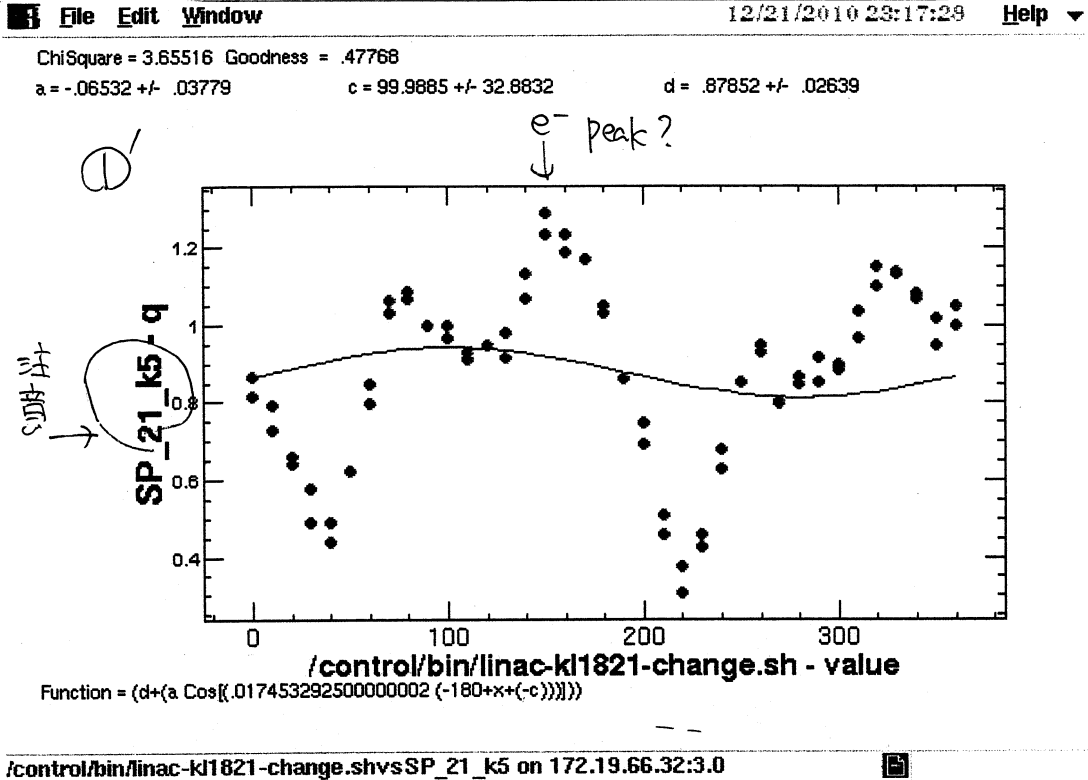
ChiSquare = 3.44760 Goodness = .47768  
 a = .12354 +/- .03615 c = 141.208 +/- 16.8702 d = .50468 +/- .02563

①



Function = (d+(a.Cos[(.017453292500000002(-180+x+(-c))])))

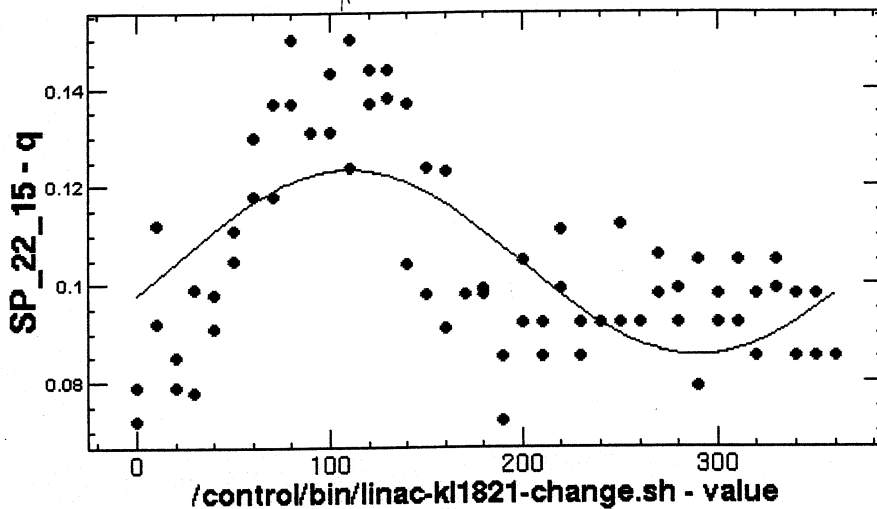
Y<sub>e+</sub>  
 1.00  
 0.546  
 0.144  
 0.886  
 0.973  
 0.722  
 0.249



ChiSquare = .01642 Goodness = .47768  
 a = -.01901 +/- .00253 c = 109.443 +/- 7.46257 d = .10440 +/- .00177

3

$\gamma_{et-max} = 0.144$



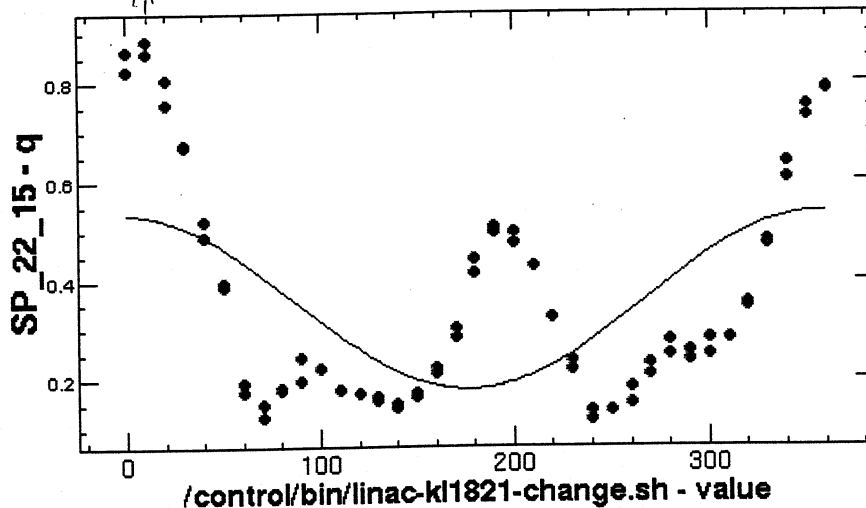
Function = (d+(a Cos[(.017453292500000002 (-180+x+(-c))))]))

/control/bin/linac-kl1821-change.shvsSP\_22\_15 on 172.19.66.32:3.0

ChiSquare = 2.47315 Goodness = .47768  
 a = .17766 +/- .03030 c = 176.972 +/- 10.0442 d = .35765 +/- .02171

4

$\gamma_{et-max} = 0.886nc$



Function = (d+(a Cos[(.017453292500000002 (-180+x+(-c))))]))

/control/bin/linac-kl1821-change.shvsSP\_22\_15 on 172.19.66.32:3.0

File Edit Window

12/21/2010 23:44:03 Help

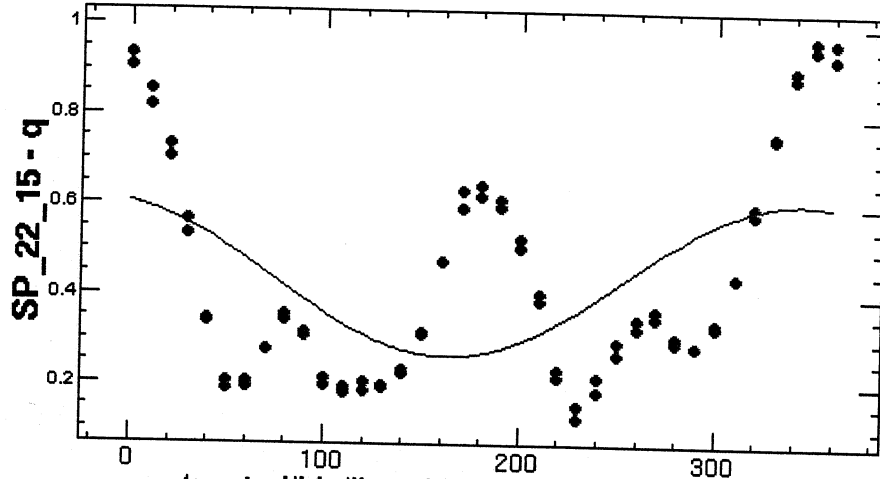
ChiSquare = 3.31464 Goodness = .47768

a = .17448 +/- .03515

c = 163.343 +/- 11.8011

d = .43623 +/- .02514

5



Function = (d+(a Cos[.017453292500000002 (-180+x+(-c))]))

/control/bin/linac-kl1821-change.shvsSP\_22\_15 on 172.19.66.32:3.0

File Edit Window

12/21/2010 23:49:00 Help

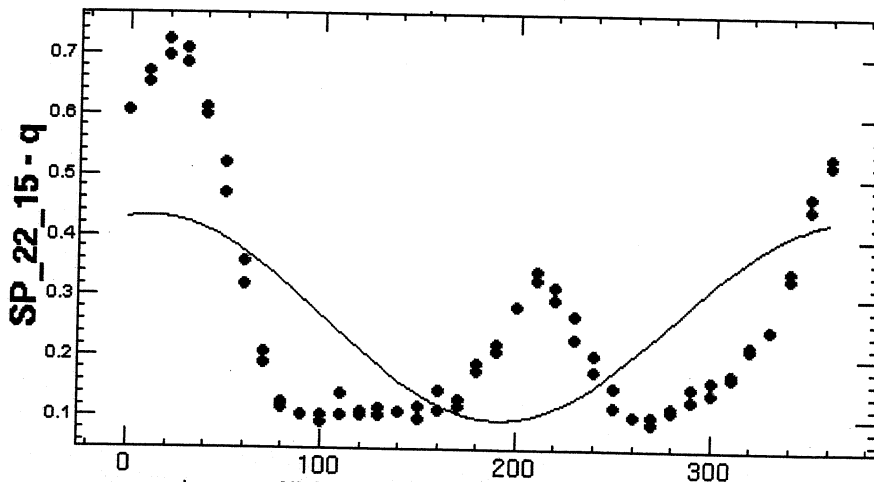
ChiSquare = 1.59972 Goodness = .47768

a = .16784 +/- .02439

c = 191.504 +/- 8.53161

d = .26368 +/- .01746

6

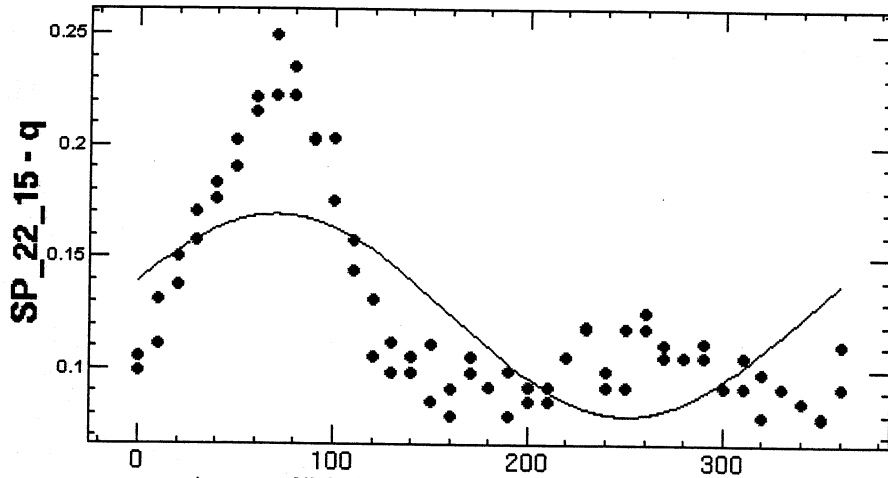


Function = (d+(a Cos[.017453292500000002 (-180+x+(-c))]))

/control/bin/linac-kl1821-change.shvsSP\_22\_15 on 172.19.66.32:3.0

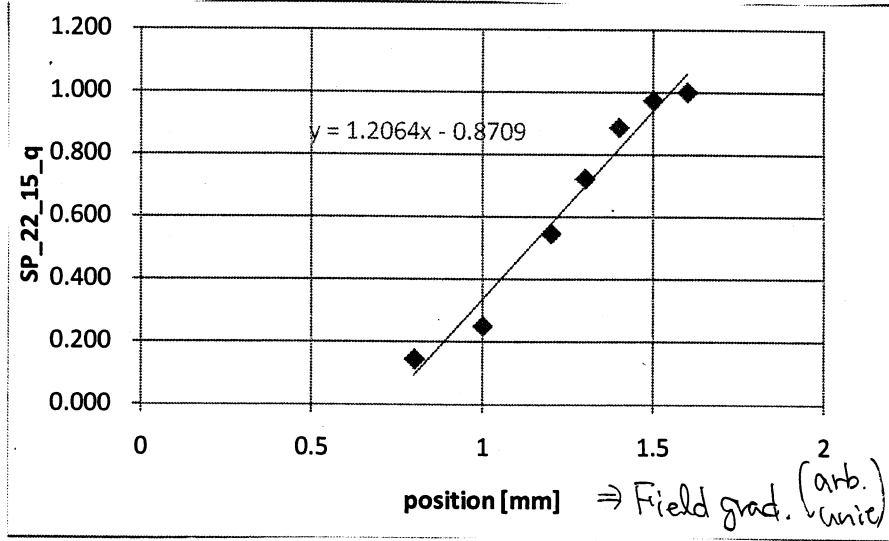
ChiSquare = .07604 Goodness = .47768  
 a = .04492 +/- .00544 c = 250.623 +/- 6.79640 d = .12391 +/- .00381

7

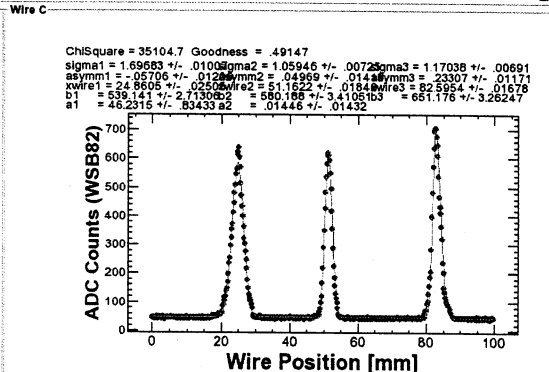
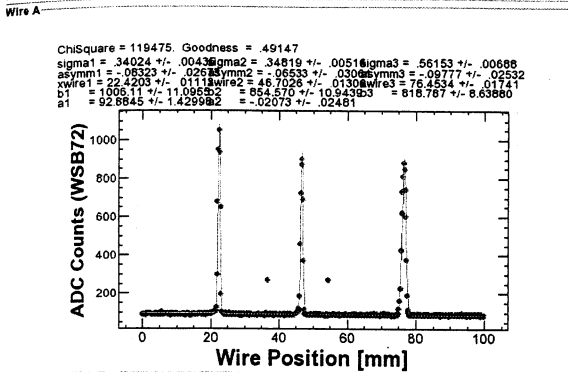


Function = (d+(a Cos[.017453292500000002 (-180+x+(-c))]))

/control/bin/linac-kl1821-change.sh vs SP 22 15 on 172.19.66.32:3.0



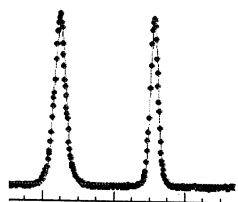
2011. 1. 16 C shift  
8GeV e- 4 270  
5nC 79.27度



01/16

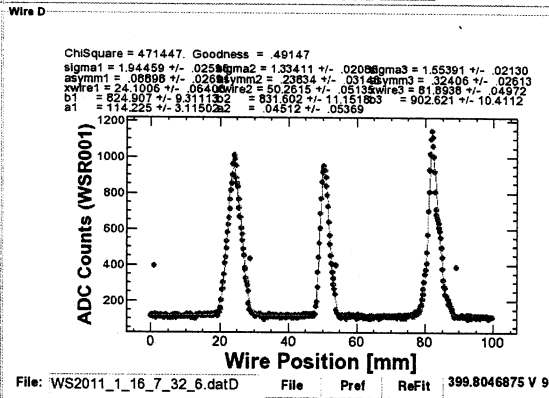
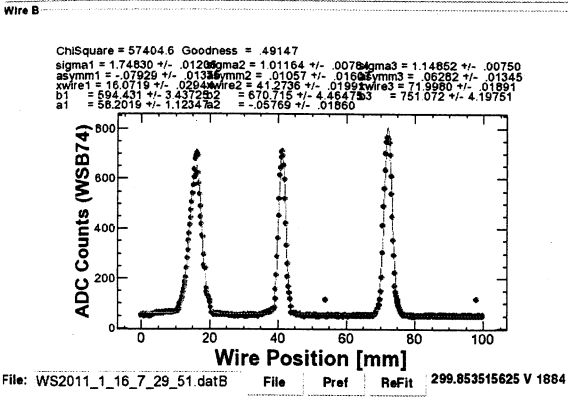
s = 48704

sigma2 = 1.08368 +/- .01511 sigma3 =  
 asym2 = 1.6073 +/- .02811 asym3 =  
 xwire2 = 50.9528 +/- .0230 xwire3 =  
 b2 = 0.18139 +/- 7.32236 b3 = 7  
 a2 = .00064 +/- .04827



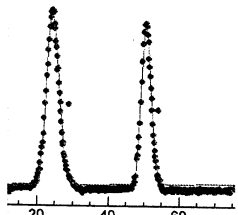
NSB82: Wire Position

\_7\_30\_59.datC File Pre



s = 48708

sigma2 = 1.2529 +/- .0364 sigma3 =  
 asym2 = .27568 +/- .0504 asym3 =  
 xwire2 = 50.0277 +/- .03119 xwire3 =  
 b2 = 834.071 +/- .20360 b3 = 96  
 a2 = .20465 +/- .10079

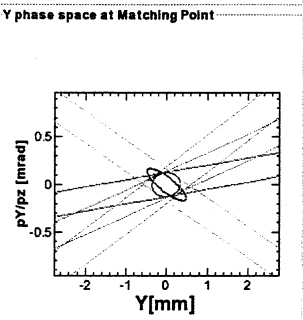
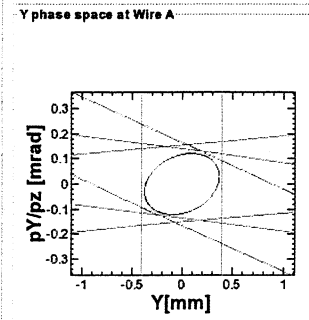
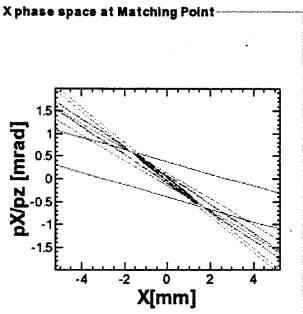
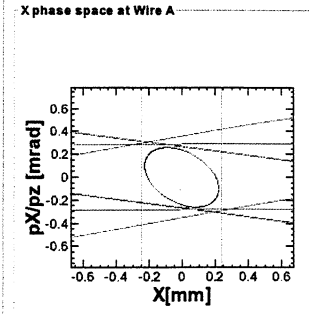


SR001: Wire Position

7\_32\_6.datD File Pref

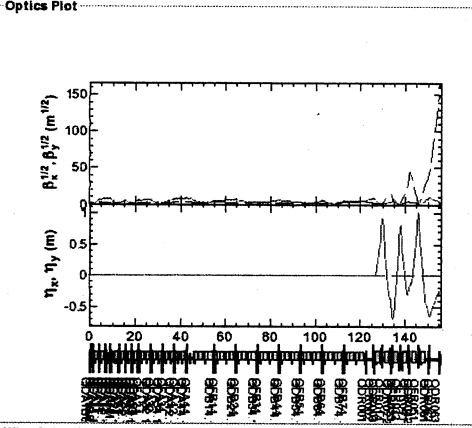
Main Application Area

Wire Scan Optics Calculate Matching



Results of Measurement

$\beta_x$ @SCR003 [m] :	40.206	$\beta_y$ @SCR003 [m] :	2.787
$\alpha_x$ @SCR003 :	14.731	$\alpha_y$ @SCR003 :	-.067
$\epsilon_x$ [m] :	5.3663E-8	$\epsilon_y$ [m] :	4.3392E-8
$\gamma_x$ [r.mm.mrad] :	178.526	$\gamma_y$ [r.mm.mrad] :	144.357
Bmag x :	1.111	Bmag y :	1.965
$\epsilon$ Bmag x :	5.9618E-8	$\epsilon$ Bmag y :	8.5243E-8
$\gamma$ Bmag x :	198.339	$\gamma$ Bmag y :	283.589



Wire Selection

3-wire:ABC  3-wire:ABD  3-wire:ACD  3-wire:BCD

4-wire:ABCD

NonLinearFit  Err(meas), no n: 0  Err(opt) (%): 0

Calculate Optics Save All Parameters

01/16/2011

Measurement

$\beta_x$ @SCR003 [m] :	33.427	$\beta_y$ @SCR003 [m] :	11.871
$\alpha_x$ @SCR003 :	7.4257E-8	$\alpha_y$ @SCR003 :	247.042
$\epsilon_x$ [m] :	1.323	$\epsilon_y$ [r.mm.mrad] :	1.1425E-7
$\gamma_x$ [r.mm.mrad] :	380.107	$\gamma_y$ [r.mm.mrad] :	

All informations are SAVED to /data1/KEKB/Wire/LINAC/sectorB/electron/data/MatchResult/WSLB\_2011\_1\_16\_7\_34\_6

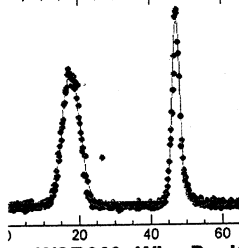
2011/01/16 C shift B-Sec e- 10Hz 1st 熊野 (3nC)

2011/01/16 C shift B-Sec e- 10Hz 2nd 熊野 (3nC)



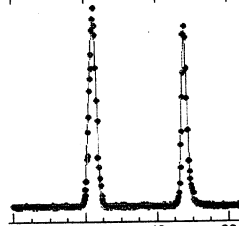
2011.1.16 C shift  
177  
3nC

rol Window  
Goodness = 4873  
04227 sigma2 = 1.0583 +/- 0.1953  
03380 asym2 = 1.1204 +/- 0.2640  
30022 wire2 = 47.4110 +/- 0.4170  
001 b2 = 548.048 +/- 6.73250  
2791 a2 = 07.400 +/- 0.4597



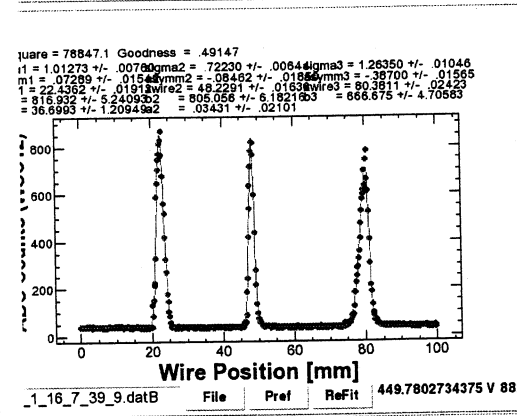
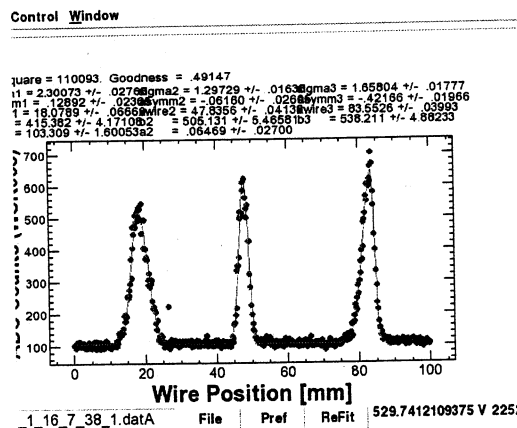
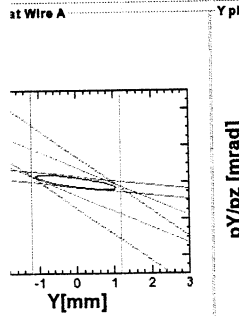
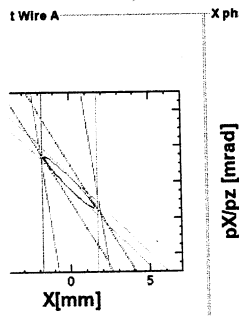
WSR063: Wire Posit  
\_1\_16\_7\_38\_1.datA File

Goodness = 48300  
01035 sigma2 = 7269 +/- 00962  
02084 asym2 = 01775 +/- 02250  
02213 wire2 = 47.8622 +/- 02040  
80240 b2 = 797.629 +/- 7.51984  
17305 a2 = 05283 +/- 04014



WSC12: Wire Posit  
\_1\_16\_7\_39\_9.datB File

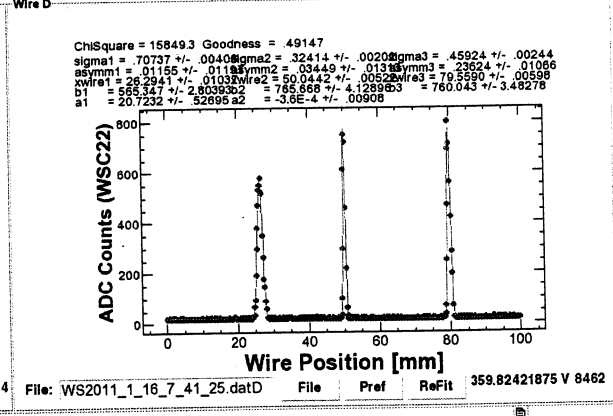
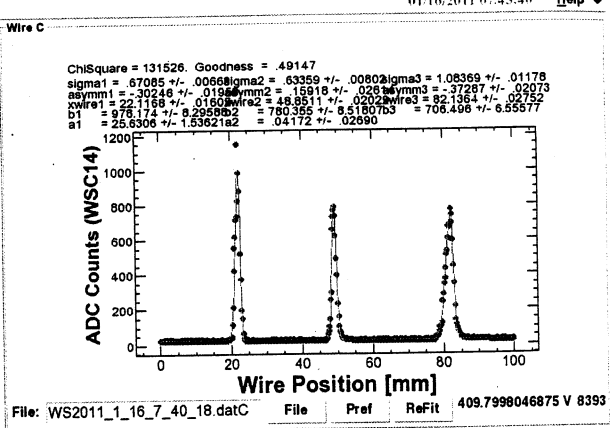
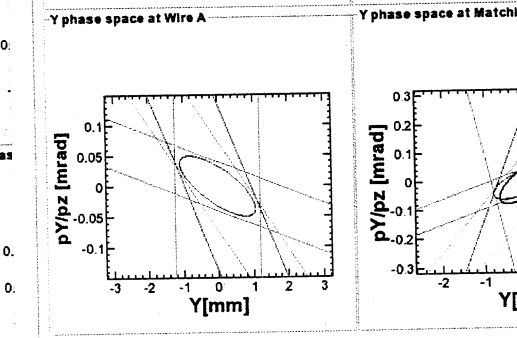
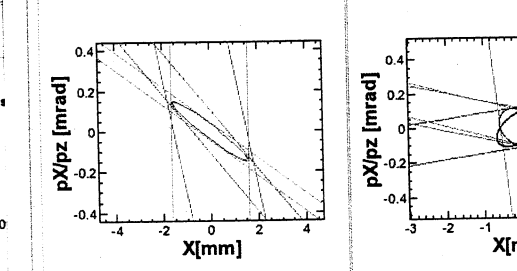
Optics Calculate Matching



n Area

File Edit Window

Wire Scan Optics Calculate Matching

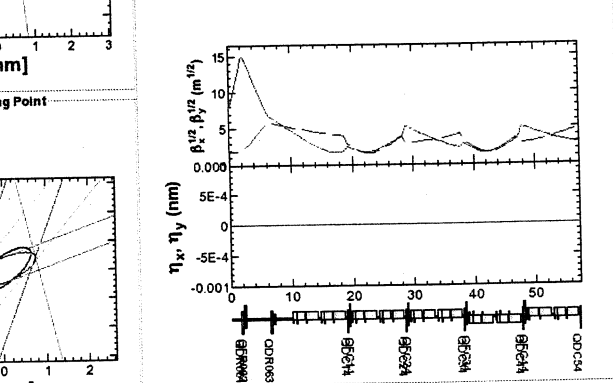


01/16/2011 07:43:50 Help

Results of Measurement

$\beta_x$ @QDC34 [m] :	5.122	$\beta_y$ @QDC34 [m] :	17.497
$\alpha_x$ @QDC34 :	273	$\alpha_y$ @QDC34 :	-965
$\epsilon_x$ [m] :	6.0461E-8	$\epsilon_y$ [m] :	3.5165E-8
$\gamma_{rx}$ [mm.mrad] :	264.724	$\gamma_{ry}$ [mm.mrad] :	153.968
Bmag x :	1.430	Bmag y :	1.182
$\epsilon$ Bmag x :	8.6431E-8	$\epsilon$ Bmag y :	4.1571E-8
$\gamma_{r}$ Bmag x :	378.432	$\gamma_{r}$ Bmag y :	182.013

Optics Plot

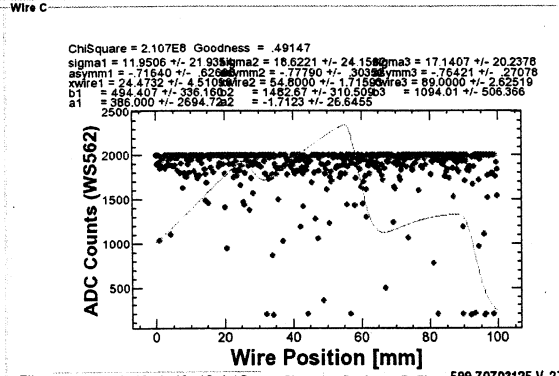
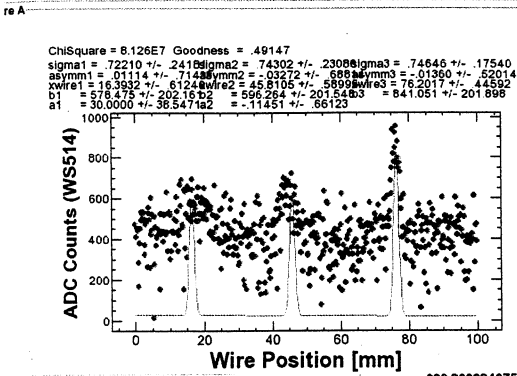


Wire Selection  
3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD  
4-wire:ABCD  
NonLinearFit Err(mess), n: n: 0 Err(opt) (%): 0  
Calculate Optics Save All Parameters

All informations are SAVED to /data1/KEKB/Wire/LINAC/sectorC/electron/data/MatchResult/WSLC\_2011\_1\_16\_7\_43\_2

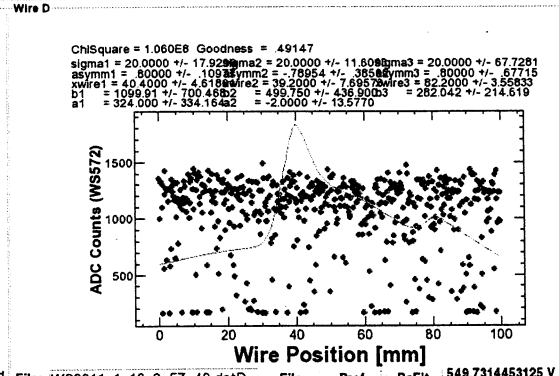
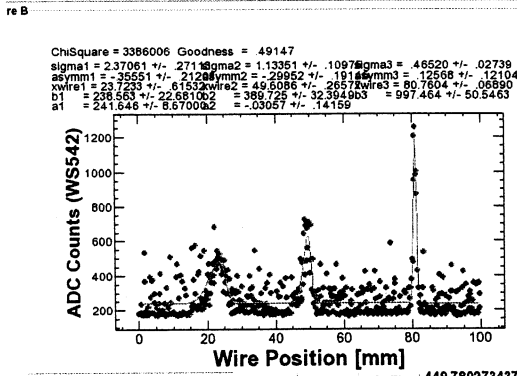
2011/01/16 C shift C-Sec e- 10Hz 1st 熊野 (3nC)

2011/01/16 C shift C-Sec e- 10Hz 2nd 熊野 (3nC)



File: WS2011\_1\_16\_3\_54\_16.datA File Pref ReFit 339.833984375 V 3121

File: WS2011\_1\_16\_4\_19\_42.datC File Pref ReFit 599.70703125 V 27



File: WS2011\_1\_16\_3\_55\_25.datB File Pref ReFit 449.7802734375 V 2811

File: WS2011\_1\_16\_3\_57\_40.datD File Pref ReFit 549.7314453125 V 7

atus Display

File Edit Window

Wire Scan Optics Calculate Matching

X phase space at Wire A X phase space at Matching Point

Results of Measurement

$\beta_x$ @BM611E [m] :	201.481	$\beta_y$ @BM611E [m] :	53.847
$\alpha_x$ @BM611E :	8.192	$\alpha_y$ @BM611E :	-3.61
$\epsilon_x$ [m] :	3.8432E-9	$\epsilon_y$ [m] :	5.8576E-9
$\gamma_{\epsilon_x}$ [π.mm.mrad] :	60.167	$\gamma_{\epsilon_y}$ [π.mm.mrad] :	91.705
Bmag x :	4.126	Bmag y :	1.240
$\epsilon$ Bmag x :	1.5858E-8	$\epsilon$ Bmag y :	7.2642E-9
$\gamma$ Bmag x :	248.264	$\gamma$ Bmag y :	113.725

Optics Plot

Wire Selection

3-wire:ABC  3-wire:ABD  3-wire:ACD  3-wire:BCD  
 4-wire:ABCD  
 NonLinearFit  Err(meas), no n: 0  Err(opt) (%) : 0

\*Calculate Optics\* Save All Parameters

Omag values were SAVED to /data1/KEKB/Wire/LINAC/sector5/KEKB/data/Qvalue/qname\_2011\_1\_16\_3\_53\_54.dat0