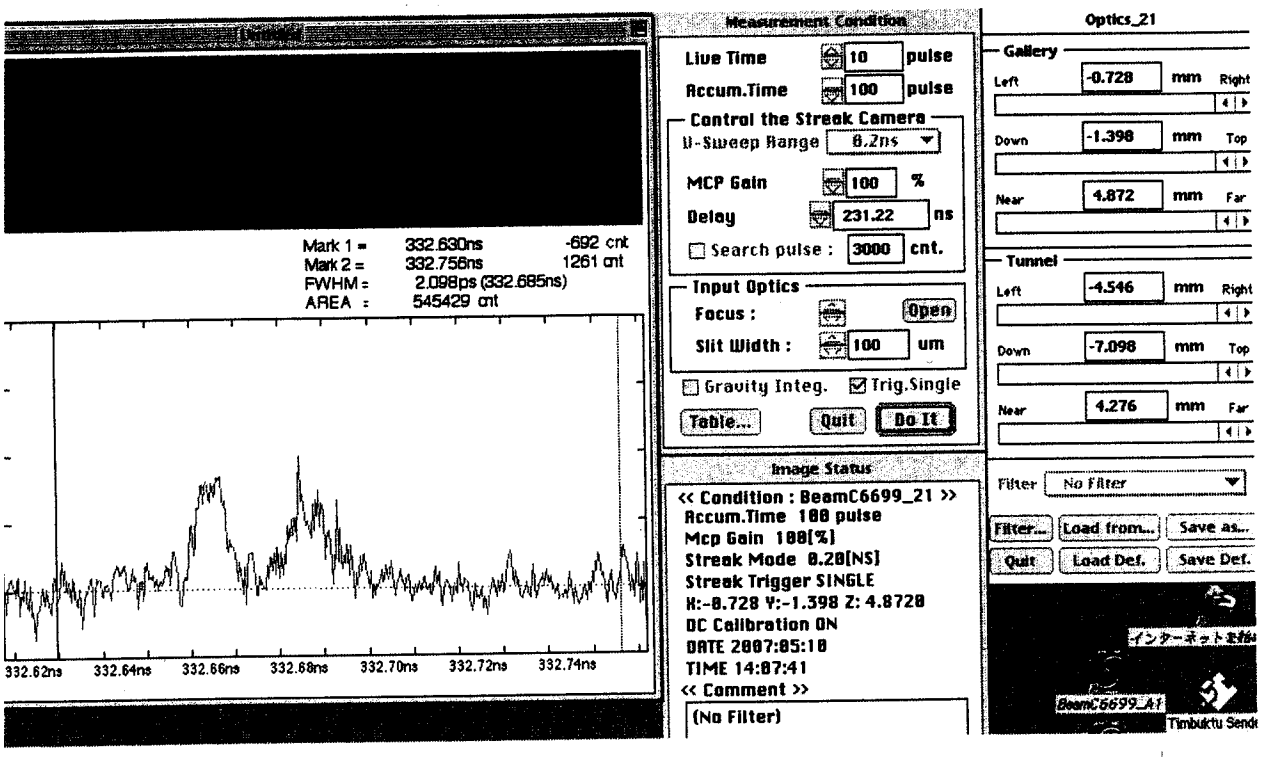
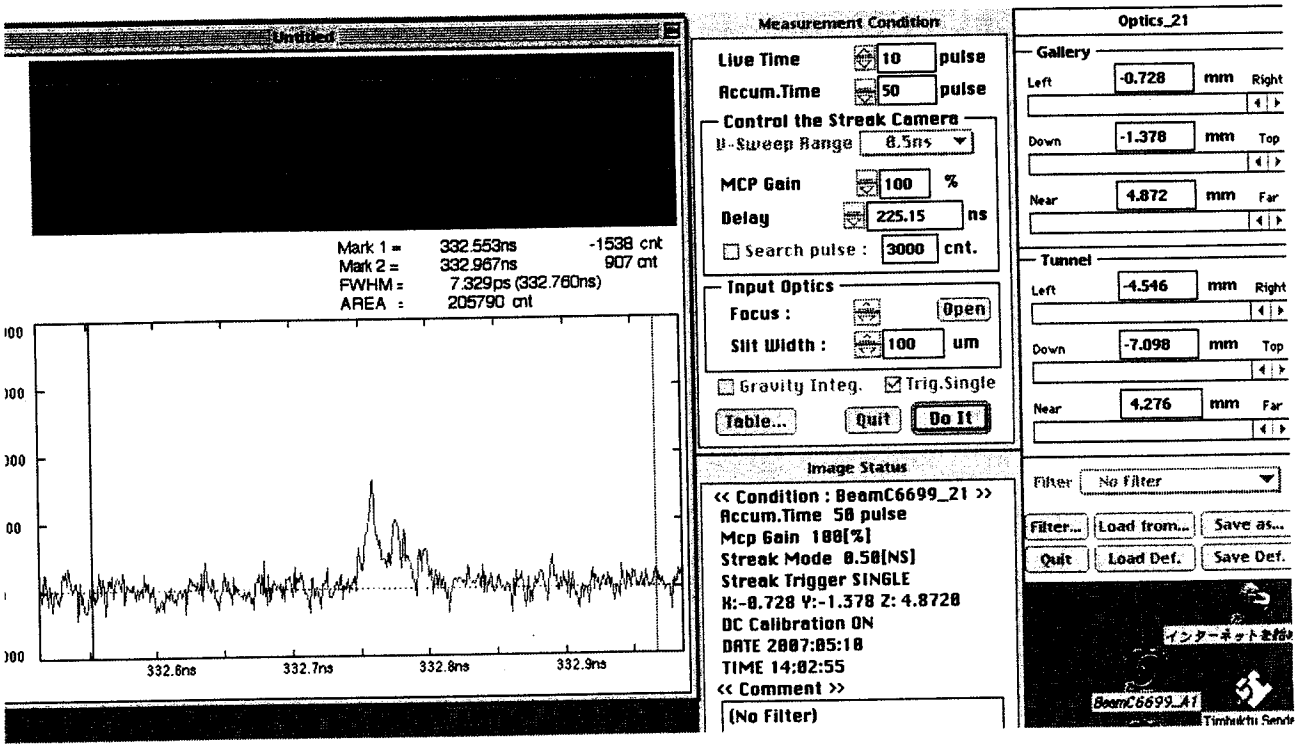
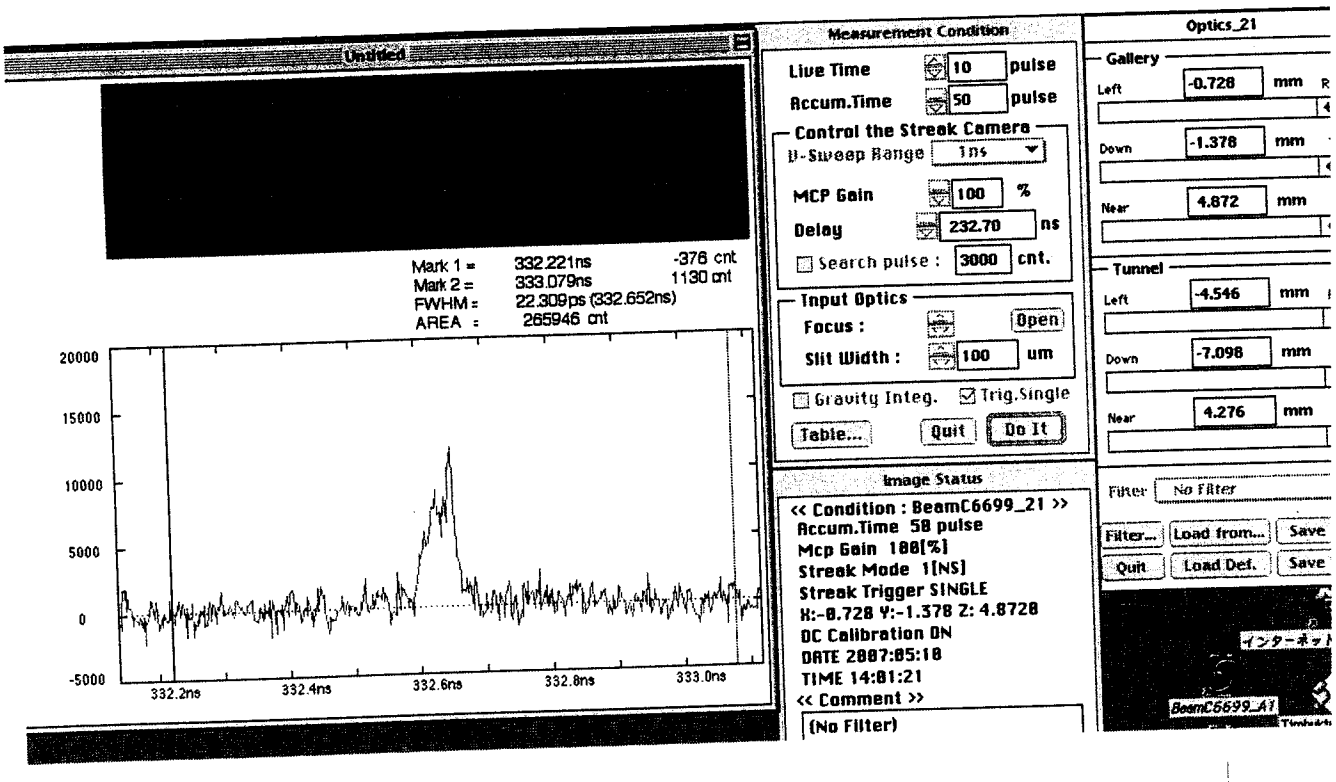
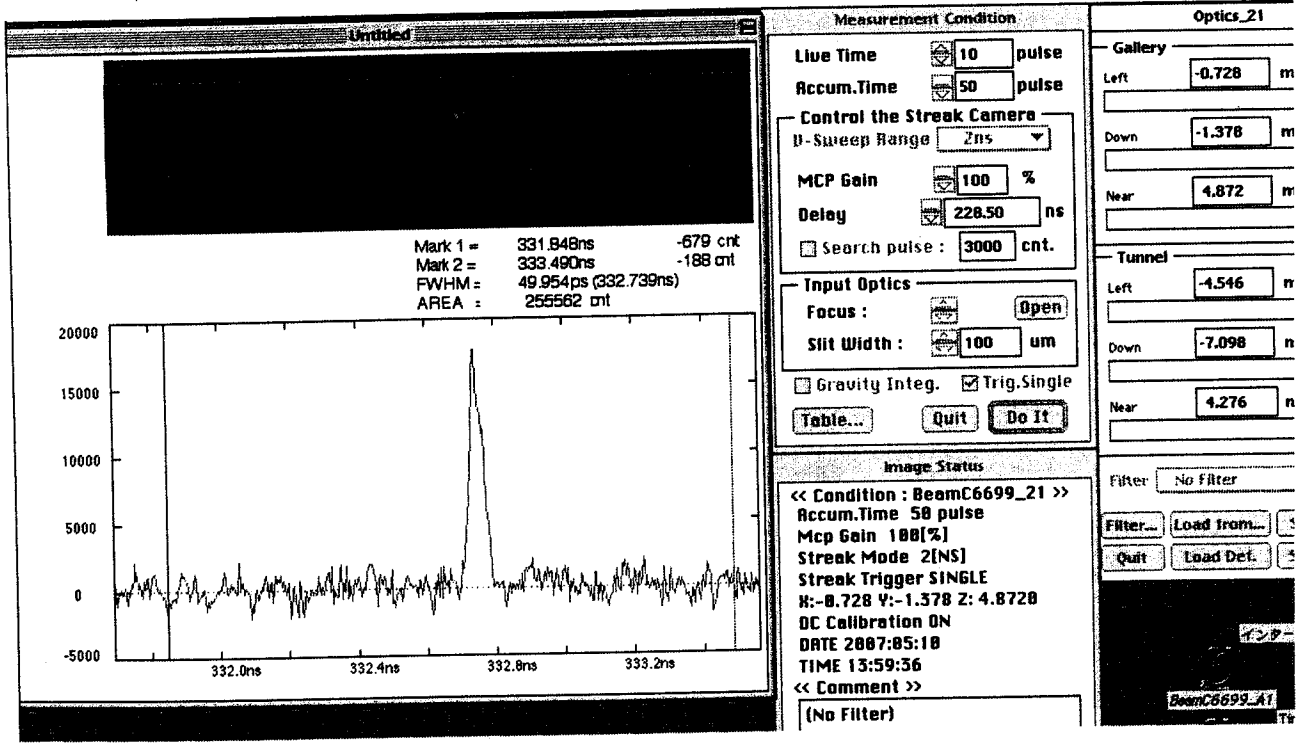

Mark 1 = 332.630ns -692 cnt
Mark 2 = 332.756ns 1261 cnt
FWHM = 2.098ps (332.685ns)
AREA : 545429 cnt
332.62ns 332.64ns 332.66ns 332.68ns 332.70ns 332.72ns 332.74ns
Measurement Condition
Live Time 10 pulse
Accum.Time 100 pulse
Control the Streak Camera
U-Sweep Range 8.2ns
MCP Gain 100 %
Delay 231.22 ns
Search pulse : 3000 cnt.
Input Optics
Focus : Open
Slit Width : 100 um
Gravity Integ. Trig.Single
Table... Quit Do It
Image Status
<< Condition : BeamC6699_21 >>
Accum.Time 100 pulse
Mcp Gain 100[%]
Streak Mode 0.20[NS]
Streak Trigger SINGLE
H:-0.728 V:-1.398 Z: 4.8720
DC Calibration ON
DATE 2007:05:10
TIME 14:07:41
<< Comment >>
(No Filter)
Optics_21
Gallery
Left -0.728 mm Right
Down -1.398 mm Top
Near 4.872 mm Far
Tunnel
Left -4.546 mm Right
Down -7.098 mm Top
Near 4.276 mm Far
Filter No Filter
Filter... Load from... Save as...
Quit Load Def. Save Def.
BeamC6699_A1

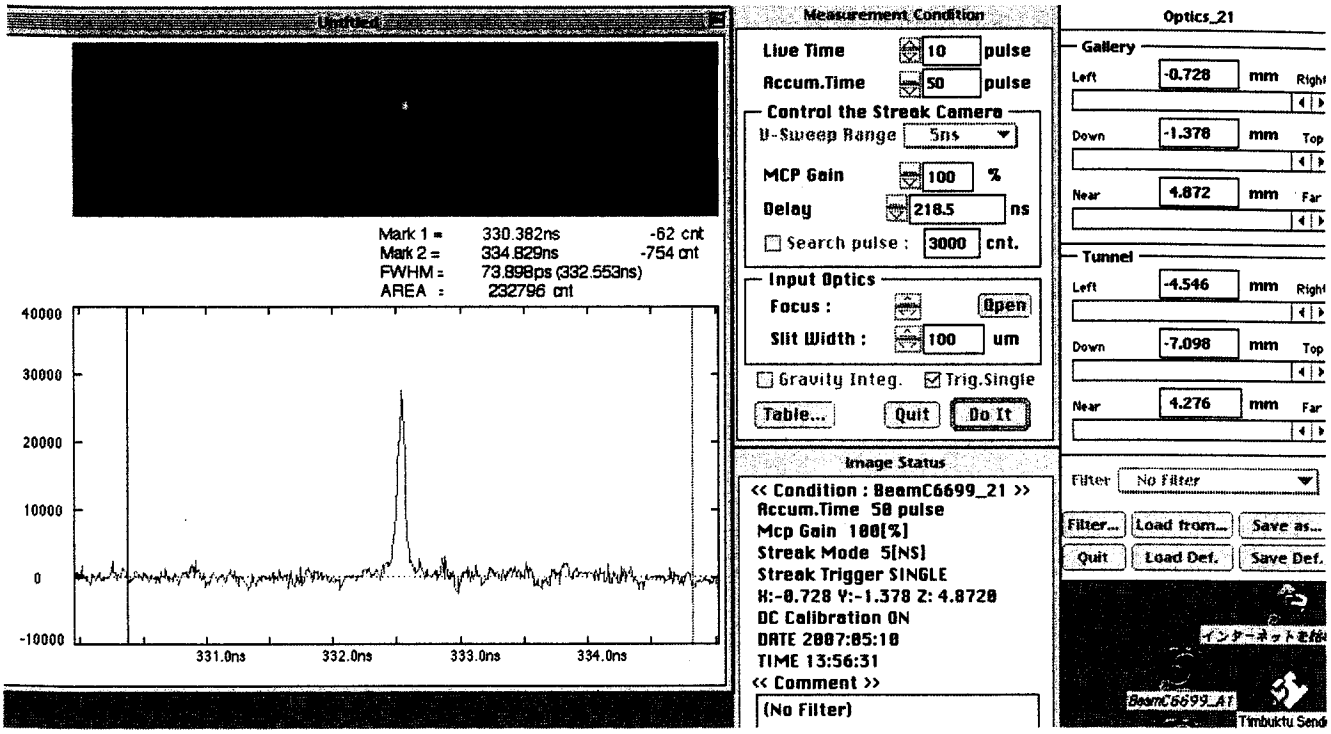

Mark 1 = 332.553ns -1538 cnt
Mark 2 = 332.967ns 907 cnt
FWHM = 7.329ps (332.760ns)
AREA : 205790 cnt
332.6ns 332.7ns 332.8ns 332.9ns
Measurement Condition
Live Time 10 pulse
Accum.Time 50 pulse
Control the Streak Camera
U-Sweep Range 8.5ns
MCP Gain 100 %
Delay 225.15 ns
Search pulse : 3000 cnt.
Input Optics
Focus : Open
Slit Width : 100 um
Gravity Integ. Trig.Single
Table... Quit Do It
Image Status
<< Condition : BeamC6699_21 >>
Accum.Time 50 pulse
Mcp Gain 100[%]
Streak Mode 0.50[NS]
Streak Trigger SINGLE
H:-0.728 V:-1.378 Z: 4.8720
DC Calibration ON
DATE 2007:05:10
TIME 14:02:55
<< Comment >>
(No Filter)
Optics_21
Gallery
Left -0.728 mm Right
Down -1.378 mm Top
Near 4.872 mm Far
Tunnel
Left -4.546 mm Right
Down -7.098 mm Top
Near 4.276 mm Far
Filter No Filter
Filter... Load from... Save as...
Quit Load Def. Save Def.
BeamC6699_A1

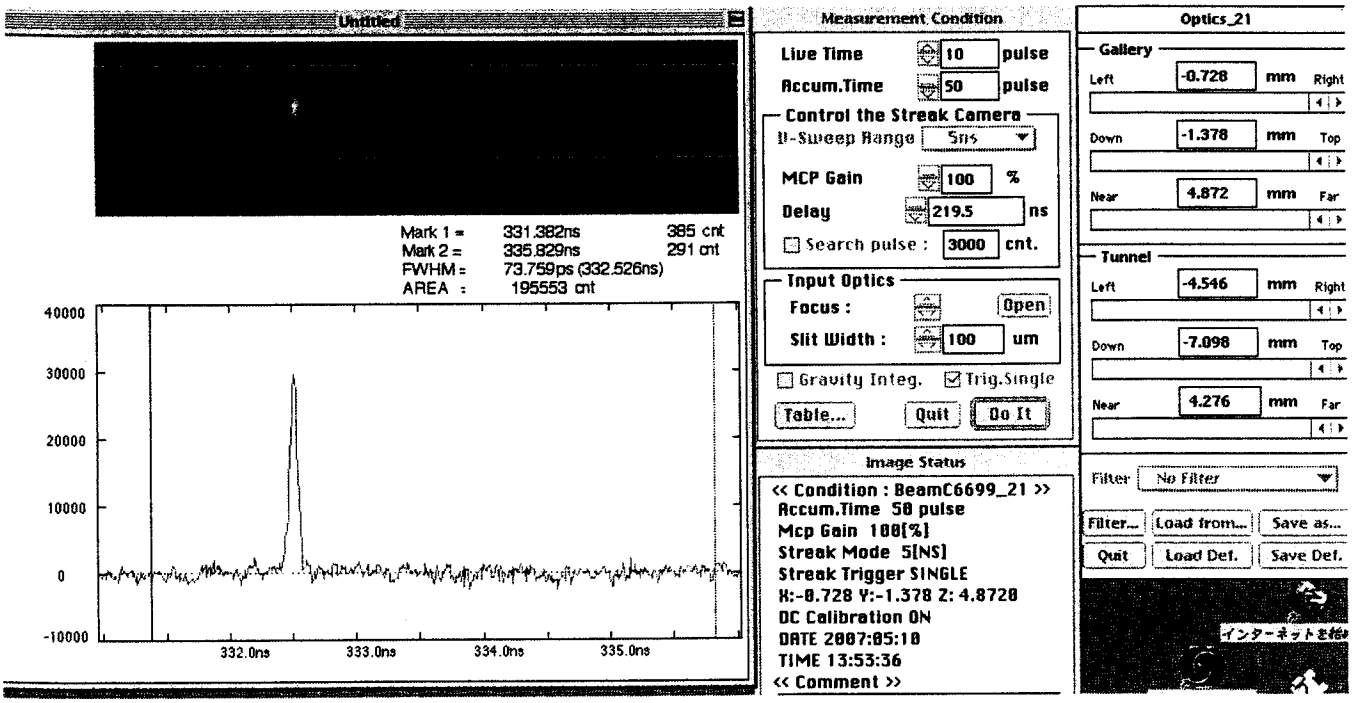
↑


Untitled
Mark 1 = 332.221ns -376 cnt
Mark 2 = 333.079ns 1130 cnt
FWHM = 22.309ps (332.652ns)
AREA = 265946 cnt
20000
15000
10000
5000
0
-5000
332.2ns
332.4ns
332.6ns
332.8ns
333.0ns
Measurement Condition
Live Time 10 pulse
Accum.Time 50 pulse
Control the Streak Camera
U-Sweep Range 1ns
MCP Gain 100 %
Delay 232.70 ns
Search pulse : 3000 cnt.
Input Optics
Focus : Open
Slit Width : 100 um
Gravity Integ. Trig.Single
Table... Quit Do It
Image Status
<< Condition : BeamC6699_21 >>
Accum.Time 50 pulse
Mcp Gain 100[%]
Streak Mode 1[NS]
Streak Trigger SINGLE
X:-0.728 Y:-1.378 Z: 4.8728
DC Calibration ON
DATE 2007:05:10
TIME 14:01:21
<< Comment >>
(No Filter)
Optics_21
Gallery
Left -0.728 mm
Down -1.378 mm
Near 4.872 mm
Tunnel
Left -4.546 mm
Down -7.098 mm
Near 4.276 mm
Filter No Filter
Filter... Load from... Save
Quit Load Def. Save
BeamC6699_A1

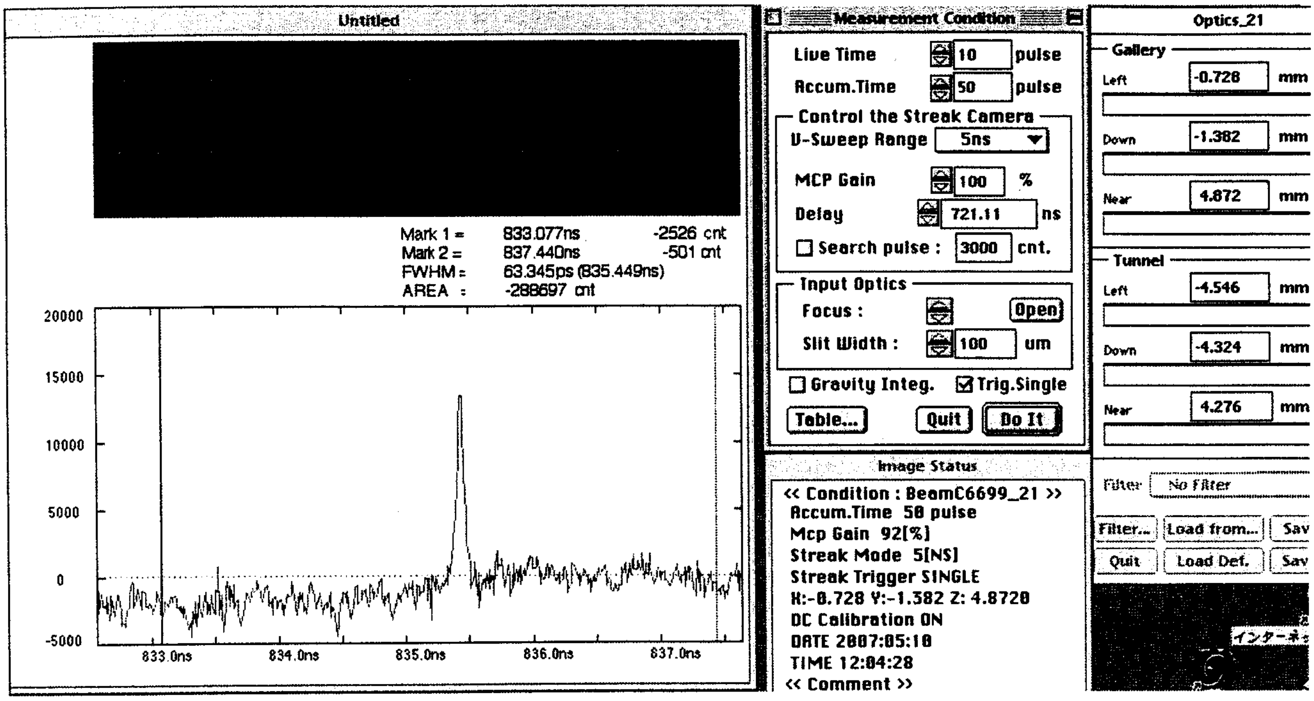
↑ 波形の確認

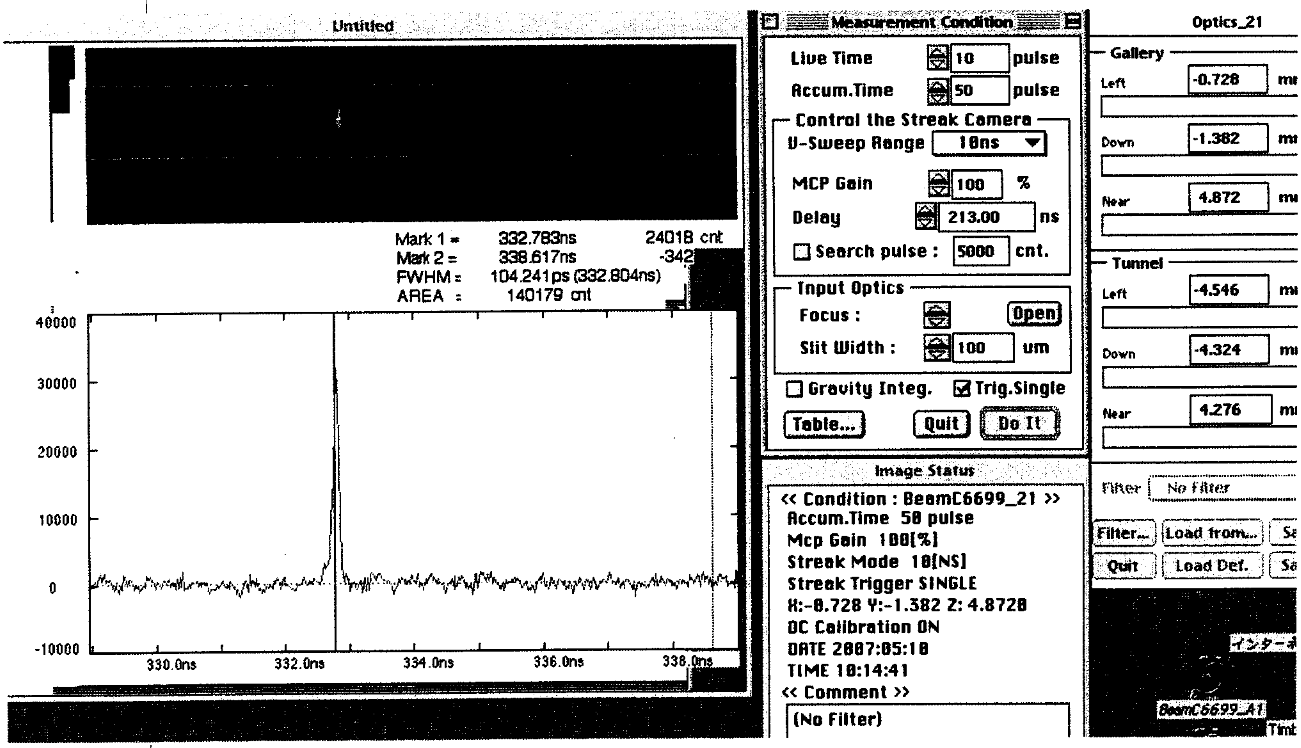

Untitled
Mark 1 = 331.848ns -679 cnt
Mark 2 = 333.490ns -188 cnt
FWHM = 49.954ps (332.739ns)
AREA = 255562 cnt
20000
15000
10000
5000
0
-5000
332.0ns
332.4ns
332.8ns
333.2ns
Measurement Condition
Live Time 10 pulse
Accum.Time 50 pulse
Control the Streak Camera
U-Sweep Range 2ns
MCP Gain 100 %
Delay 228.50 ns
Search pulse : 3000 cnt.
Input Optics
Focus : Open
Slit Width : 100 um
Gravity Integ. Trig.Single
Table... Quit Do It
Image Status
<< Condition : BeamC6699_21 >>
Accum.Time 50 pulse
Mcp Gain 100[%]
Streak Mode 2[NS]
Streak Trigger SINGLE
X:-0.728 Y:-1.378 Z: 4.8728
DC Calibration ON
DATE 2007:05:10
TIME 13:59:36
<< Comment >>
(No Filter)
Optics_21
Gallery
Left -0.728
Down -1.378
Near 4.872
Tunnel
Left -4.546
Down -7.098
Near 4.276
Filter No Filter
Filter... Load from...
Quit Load Def.
BeamC6699_A1

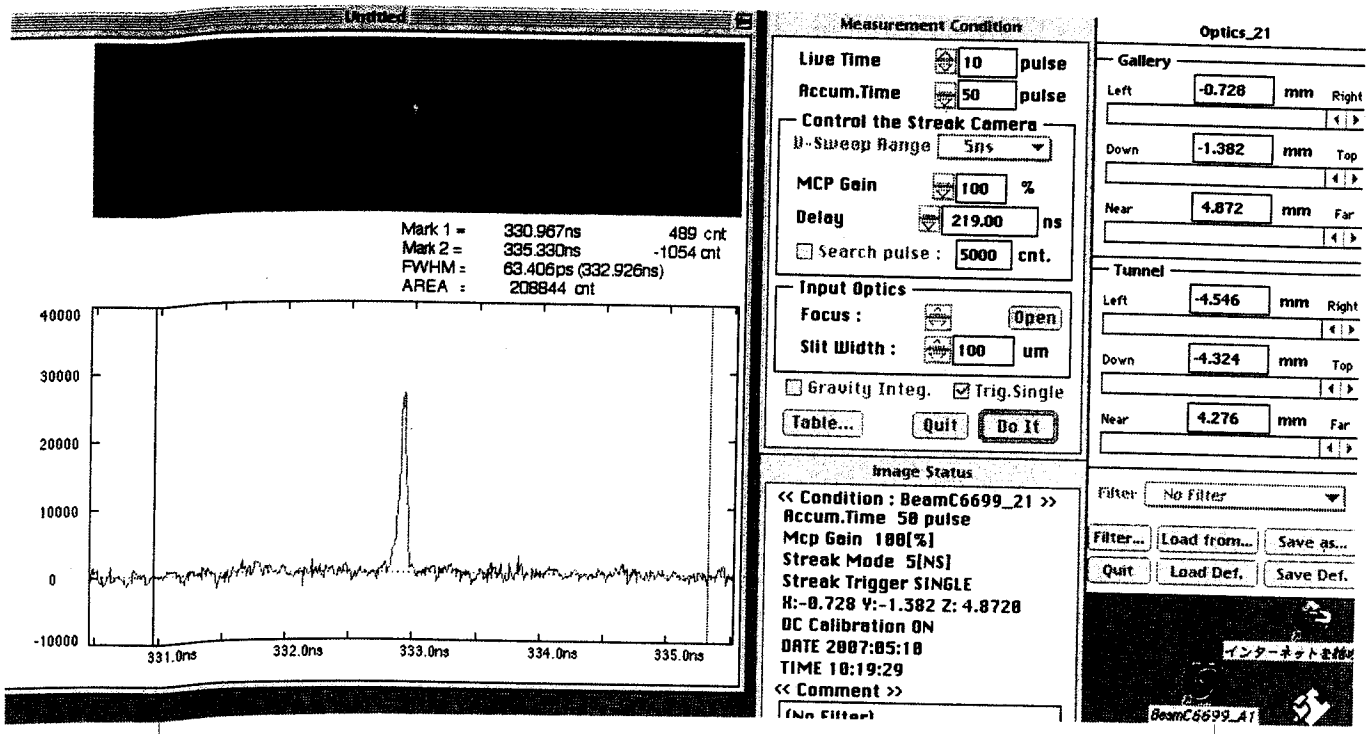

Mark 1 = 330.382ns -62 cnt
Mark 2 = 334.829ns -754 cnt
FWHM = 73.898ps (332.553ns)
AREA : 232796 cnt
40000
30000
20000
10000
0
-10000
331.0ns
332.0ns
333.0ns
334.0ns
Measurement Condition
Live Time 10 pulse
Accum.Time 50 pulse
Control the Streak Camera
U-Sweep Range 5ns
MCP Gain 100 %
Delay 218.5 ns
Search pulse : 3000 cnt.
Input Optics
Focus : Open
Slit Width : 100 um
Gravity Integ. Trig.Single
Table... Quit Do It
Image Status
<< Condition : BeamC6699_21 >>
Accum.Time 50 pulse
Mcp Gain 100[%]
Streak Mode 5[NS]
Streak Trigger SINGLE
X:-0.728 Y:-1.378 Z: 4.8720
DC Calibration ON
DATE 2007:05:10
TIME 13:56:31
<< Comment >>
(No Filter)
Optics_21
Gallery
Left -0.728 mm Right
Down -1.378 mm Top
Near 4.872 mm Far
Tunnel
Left -4.546 mm Right
Down -7.098 mm Top
Near 4.276 mm Far
Filter No Filter
Filter... Load from... Save as...
Quit Load Def. Save Def.
BeamC6699_A1
Timbuktu Send


Mark 1 = 331.382ns 385 cnt
Mark 2 = 335.829ns 291 cnt
FWHM = 73.759ps (332.526ns)
AREA : 195553 cnt
40000
30000
20000
10000
0
-10000
332.0ns
333.0ns
334.0ns
335.0ns
Measurement Condition
Live Time 10 pulse
Accum.Time 50 pulse
Control the Streak Camera
U-Sweep Range 5ns
MCP Gain 100 %
Delay 219.5 ns
Search pulse : 3000 cnt.
Input Optics
Focus : Open
Slit Width : 100 um
Gravity Integ. Trig.Single
Table... Quit Do It
Image Status
<< Condition : BeamC6699_21 >>
Accum.Time 50 pulse
Mcp Gain 100[%]
Streak Mode 5[NS]
Streak Trigger SINGLE
X:-0.728 Y:-1.378 Z: 4.8720
DC Calibration ON
DATE 2007:05:10
TIME 13:53:36
<< Comment >>
Optics_21
Gallery
Left -0.728 mm Right
Down -1.378 mm Top
Near 4.872 mm Far
Tunnel
Left -4.546 mm Right
Down -7.098 mm Top
Near 4.276 mm Far
Filter No Filter
Filter... Load from... Save as...
Quit Load Def. Save Def.

ストリーク ソフトウェア リスタートした前

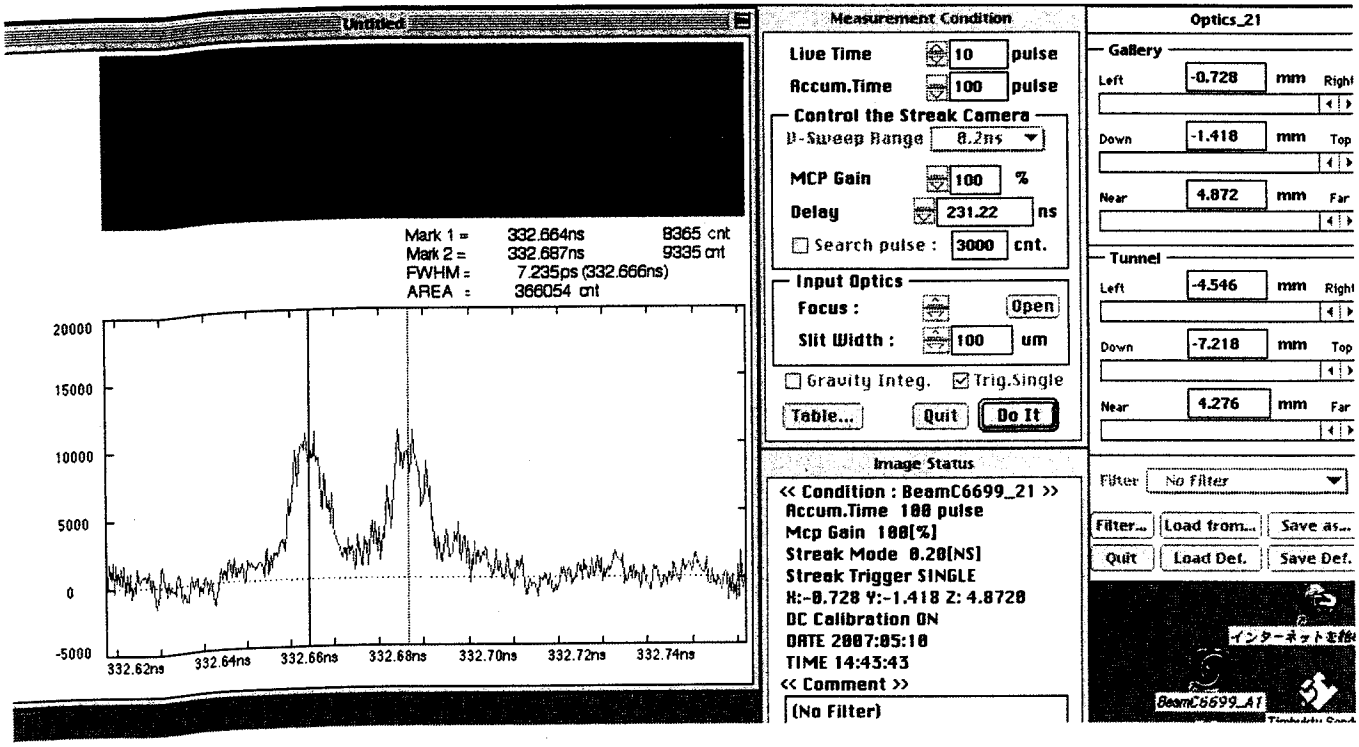






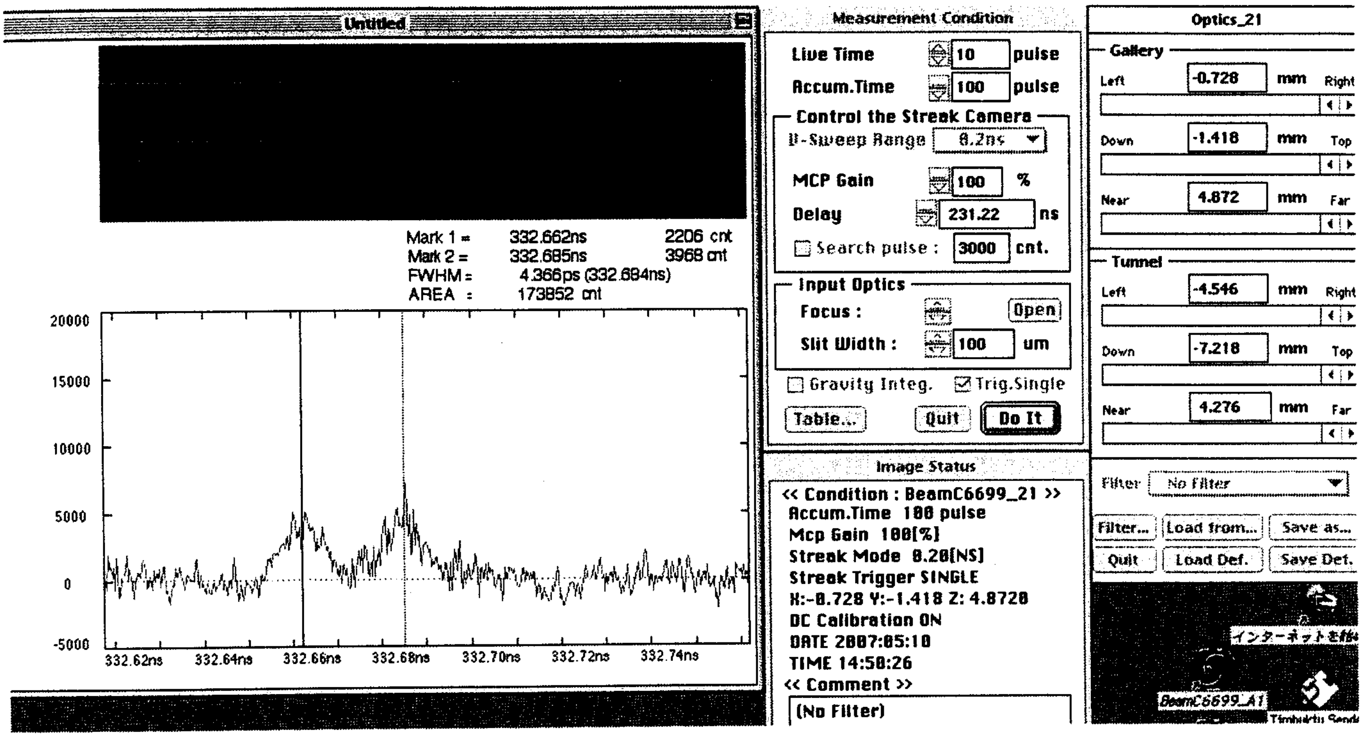
1.0 nC

14:39 Gun A1 bias 278.8 → 255 V → 1.8 nC

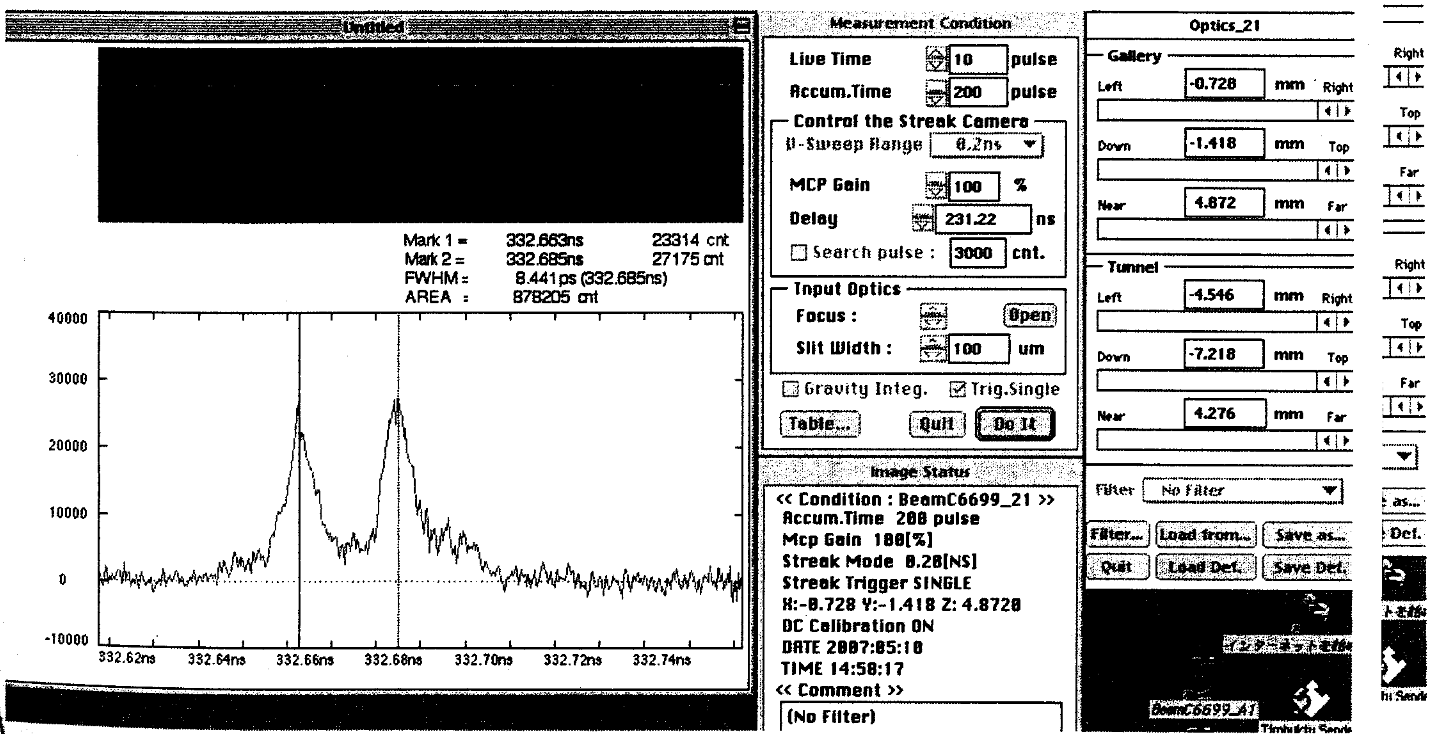


(中心 101.5°)

14:50 SB_A, B +5° Chargeを減らす 1.6nC 動きが出る



14:54 SB_A, B −5°

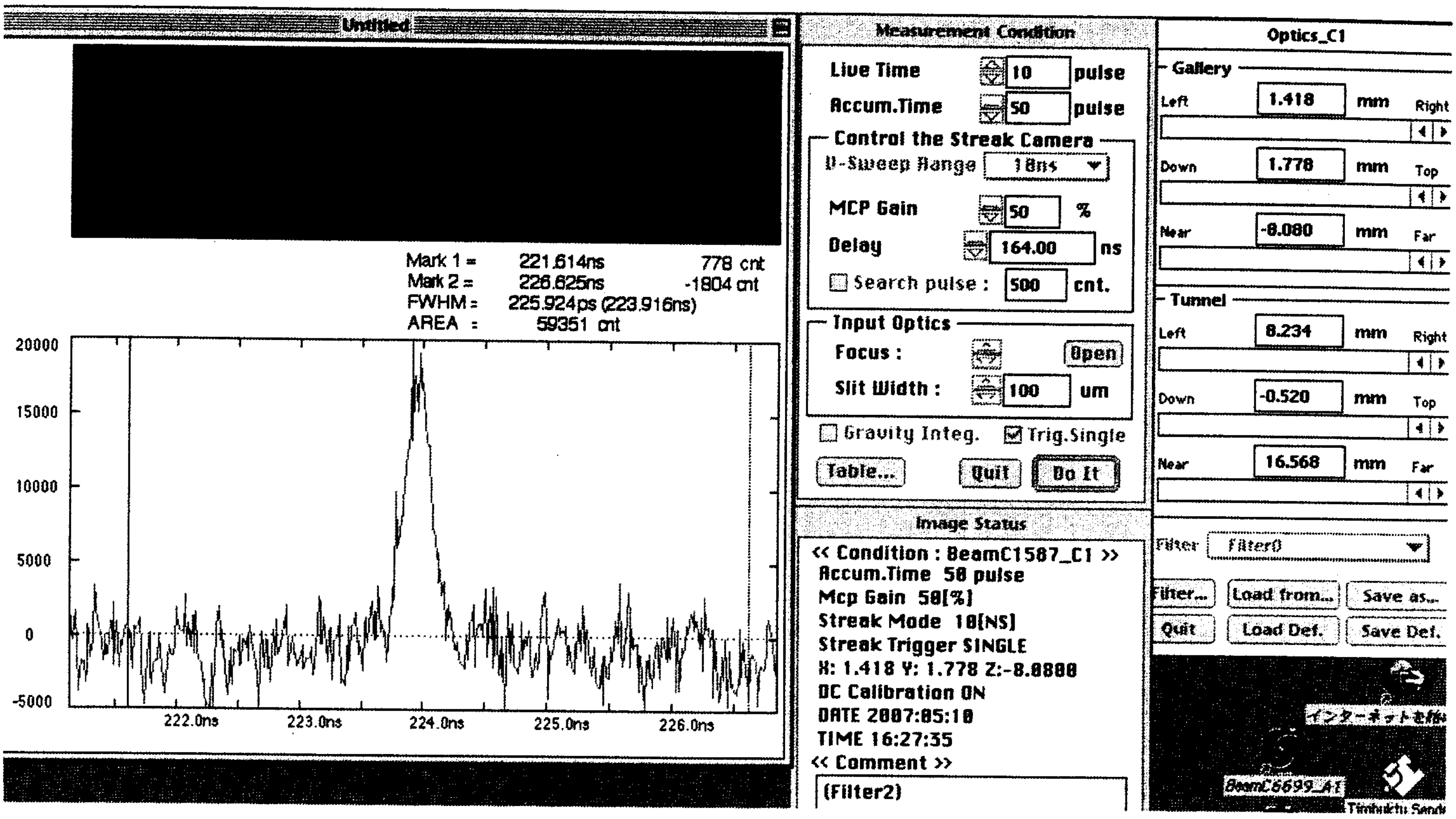


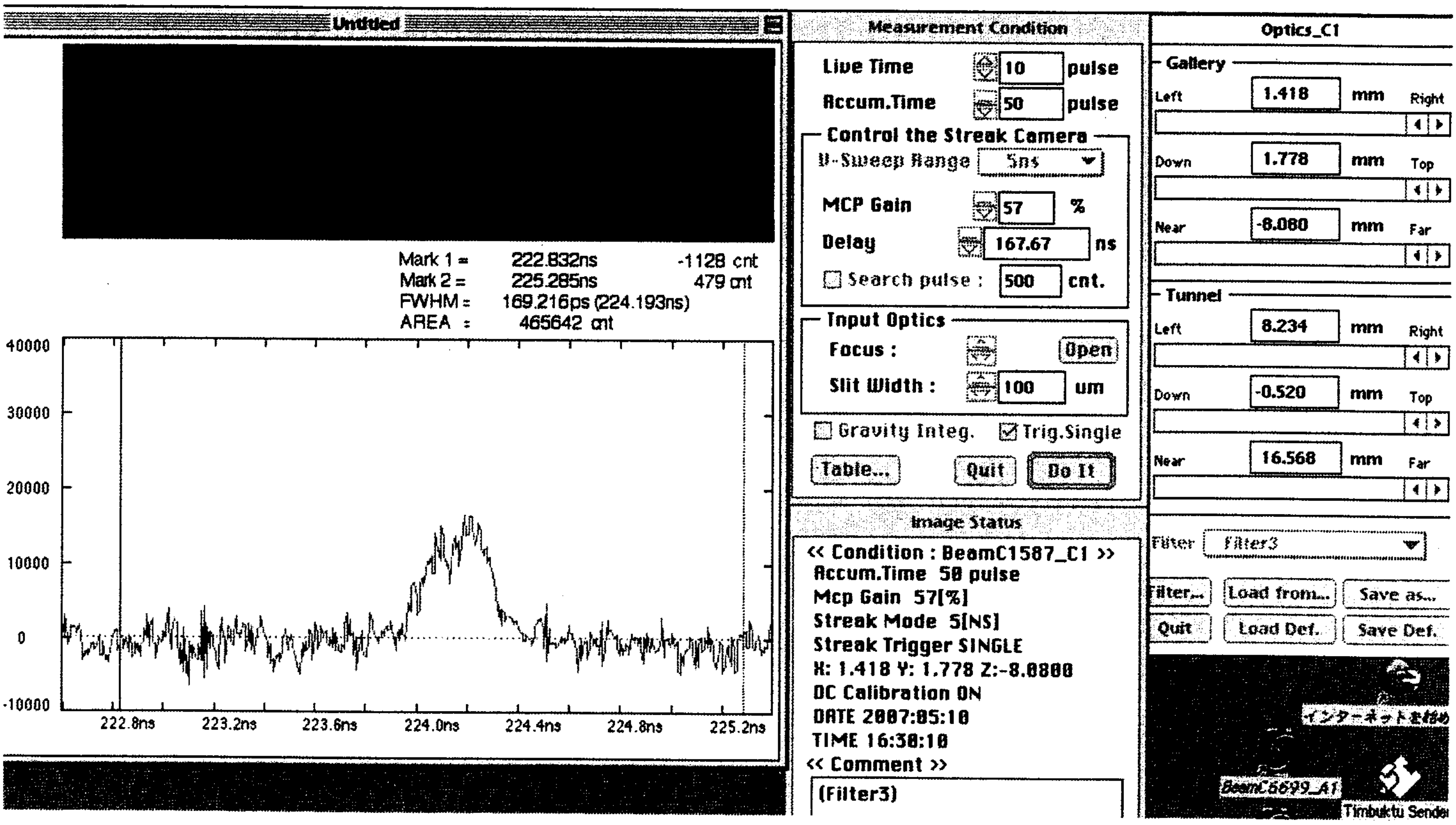
87

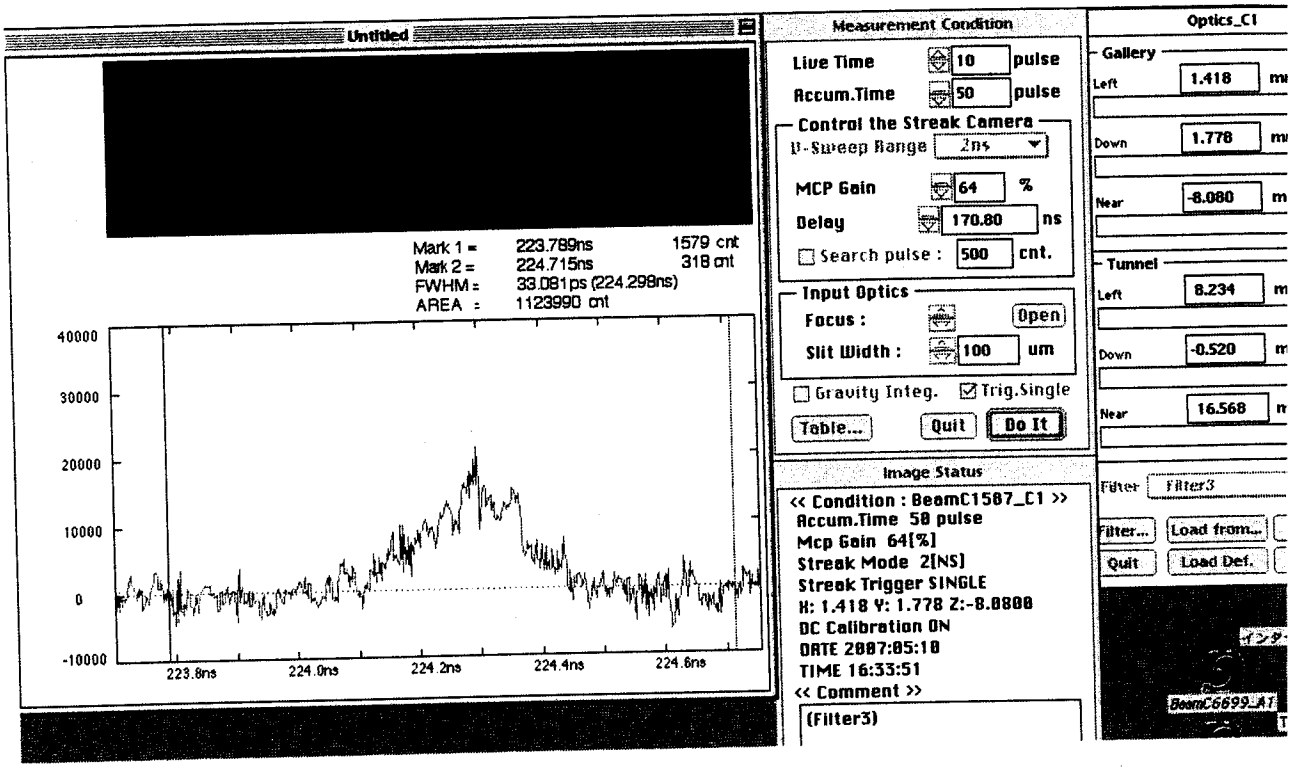
megnet

C12ルn-7 デジタル file data4469.all 1.8mC

~~SB A-B 0° (101.5°) 200回平均 → streak ...~~



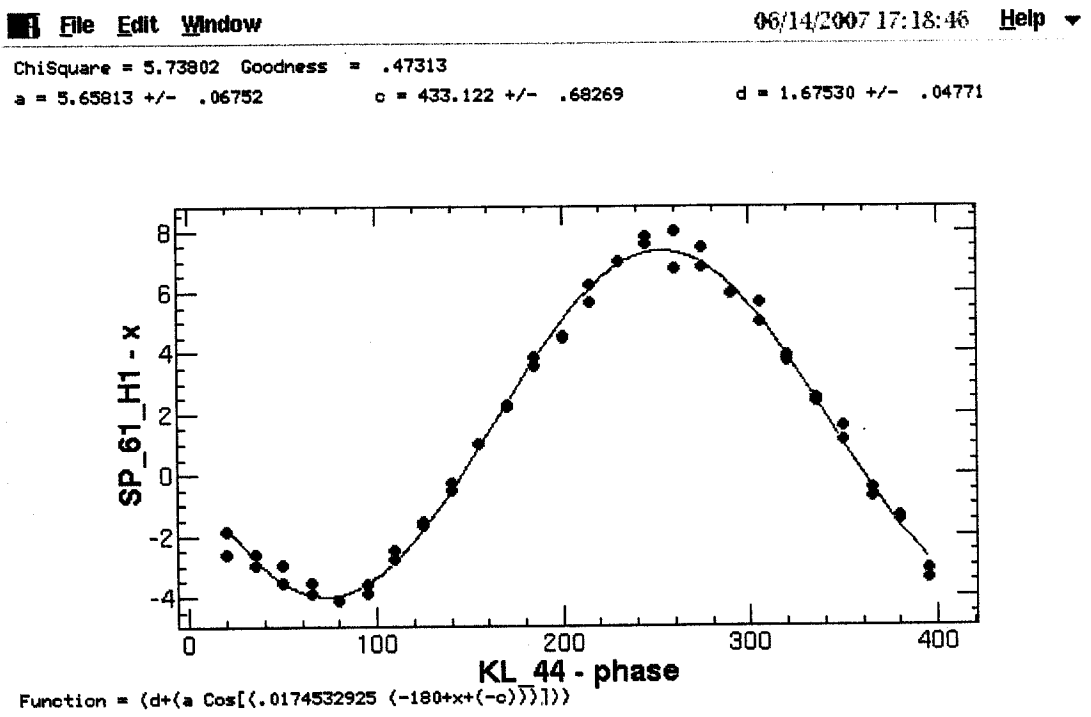



Untitled
Mark 1 = 223.789ns 1579 cnt
Mark 2 = 224.715ns 318 cnt
FWHM = 33.081ps (224.298ns)
AREA = 1123990 cnt
40000
30000
20000
10000
0
-10000
223.8ns
224.0ns
224.2ns
224.4ns
224.6ns
Measurement Condition
Live Time 10 pulse
Accum.Time 50 pulse
Control the Streak Camera
Sweep Range 2ns
MCP Gain 64 %
Delay 170.80 ns
Search pulse : 500 cnt.
Input Optics
Focus :
Open
Slit Width : 100 um
Gravity Integ.
Trig.Single
Table...
Quit
Do It
Image Status
<< Condition : BeamC1587_C1 >>
Accum.Time 50 pulse
Mcp Gain 64[%]
Streak Mode 2[NS]
Streak Trigger SINGLE
H: 1.418 V: 1.778 Z:-8.0800
DC Calibration ON
DATE 2007:05:10
TIME 16:33:51
<< Comment >>
(Filter3)
Optics_C1
Gallery
Left 1.418
Down 1.778
Near -8.080
Tunnel
Left 8.234
Down -0.520
Near 16.568
Filter Filter3
Filter...
Load from...
Quit
Load Def.
BeamC6699_AT

2007.6.14 4-4 unit (C-band) ライナック運転への投入の準備

○ KEKB e⁻ モード (シングルバンチ)

4-4 Cband unit STB → Acc
Energy-feedback.
吉田 Orbit 補正ソフトで連続補正
Simple correlation plot で phase - Egain 関係



$E_s = 40.5$ KV , $P_f(VSX-9) = 46.4$MW , $P_f^{Pla} = 35.7$MW

$\frac{5.66}{307.5} \times 8000 = 147.3$ MeV

Es [KV]	Pf [MW]	Egain [Mev]	VSX-9	
40.5	35.6	147	46.4	2007/6/14/18:11
44.4	41.5	172	53.6	2007/6/~~22~~ 4 26
↓	↓			
(予想) 42.5	38.5 * 実際には、37.4	160 * 163.6	47.9 - 48.2	2007/6/14 19:00

PQワクラフより内挿して。

$\sqrt{38.5} = 6.2$

$172 : \sqrt{41.5} = 160 : \sqrt{x}$

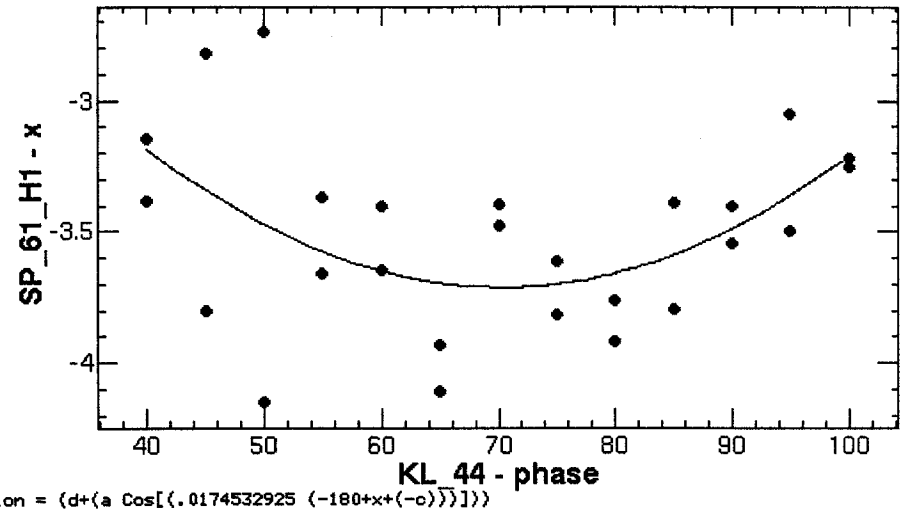
$172\sqrt{x} = 160 \times \sqrt{41.5}$

$\sqrt{x} = \frac{160}{172}\sqrt{41.5} = 5.992 \rightarrow x \cong 36$ MW

File Edit Window 06/14/2007 17:24:24 He.

ChiSquare = 2.31443 Goodness = .46077

a = -3.8323 +/- 1.34642 c = 250.347 +/- 2.94525 d = .12000 +/- 1.27731



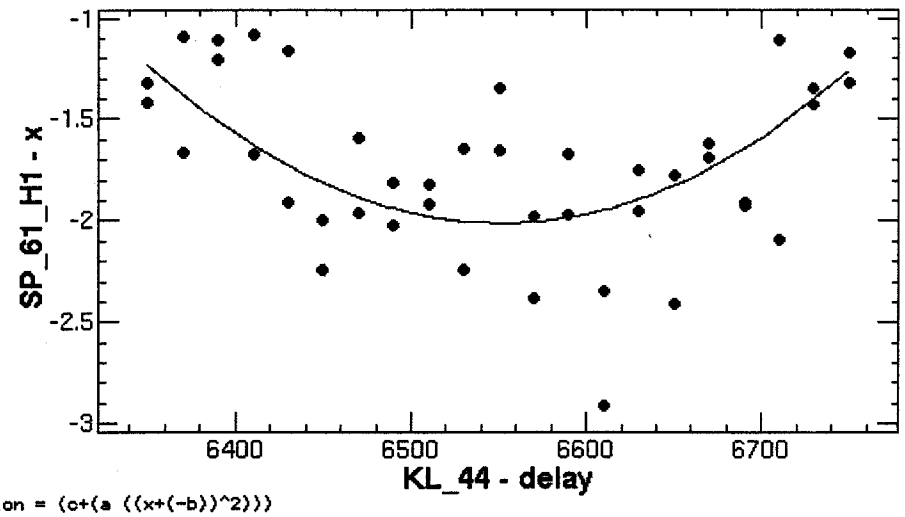
Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

KL_44vsSP_61_H1 on lcg3:0.0

File Edit Window 06/14/2007 17:35:54 Help

ChiSquare = 4.60840 Goodness = .46988

a = 1.92E-5 +/- 4.06E-6 b = 6551.79 +/- 11.4233 c = -2.0121 +/- .07971



Function = (c+(a ((x+(-b))^2)))

KL_44vsSP_61_H1 on lcg3:0.0