

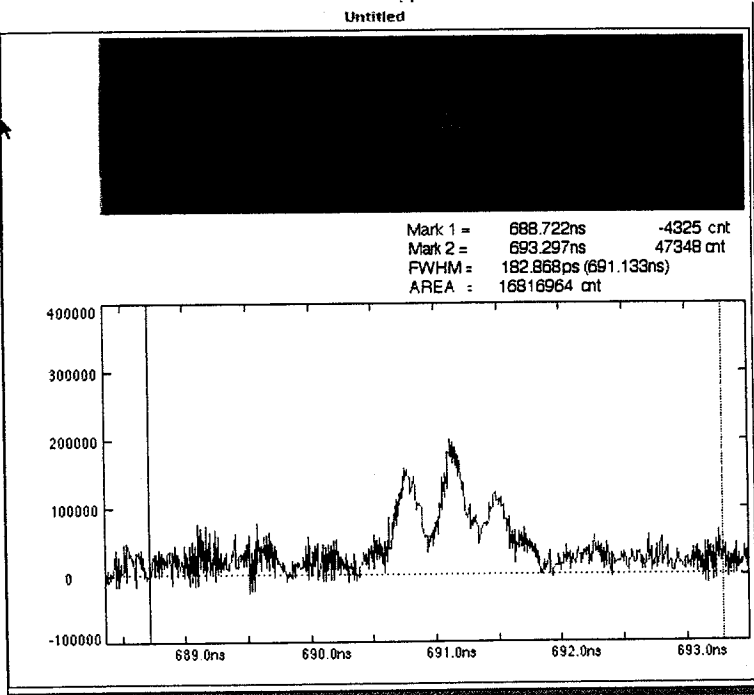
133

206.8Kf  
312.183

2005.9.5

# InC Beam Tuning 後の Streak Camera 調整

Play 7280ns  
SHB1 STB (ffff)  
SHB2 STB (ffff)



Measurement Condition

Live Time: 5 pulse  
Accum. Time: 50 pulse

Control the Streak Camera  
U-Sweep Range: 5ns  
MCP Gain: 90 %  
Delay: 536 ns  
 Search pulse: 5000 cnt.

Input Optics  
Focus: Open  
Slit Width: 100 um

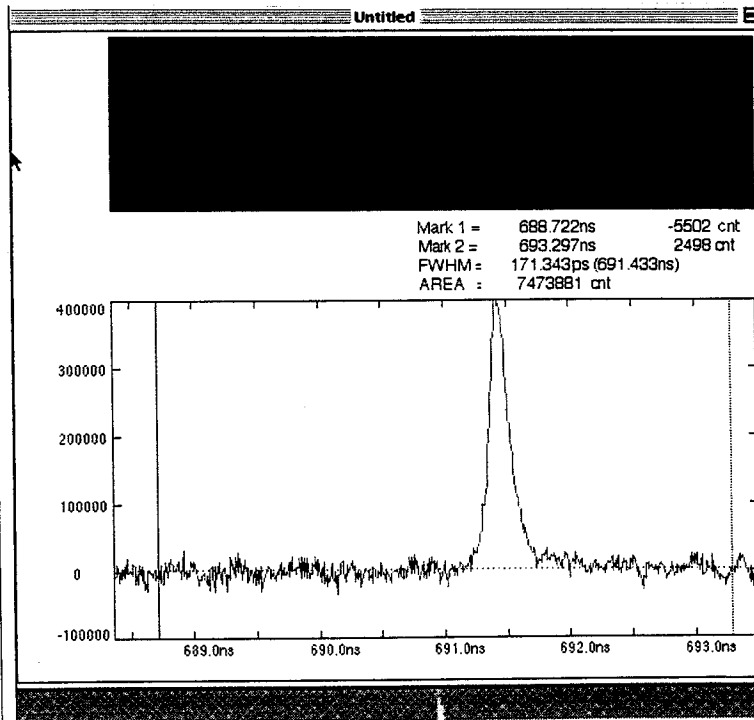
Gravity Integ.  Trig. Single

Table... Quit Do It

Image Status

<< Condition: BeamC6699\_A1 >>  
Accum. Time 50 pulse  
Mcp Gain 90[%]  
Streak Mode 5[NS]  
Streak Trigger SINGLE  
H: -0.240 Y: 0.120 Z: 7.1840  
DC Calibration ON  
DATE 2005:09:05  
TIME 21:45:45  
<< Comment >>

Play 7.280ns  
SHB1 ACC  
359.2°  
SHB2 ACC  
φ 47.9°



Measurement Condition

Live Time: 5 pulse  
Accum. Time: 50 pulse

Control the Streak Camera  
U-Sweep Range: 5ns  
MCP Gain: 90 %  
Delay: 536 ns  
 Search pulse: 5000 cnt.

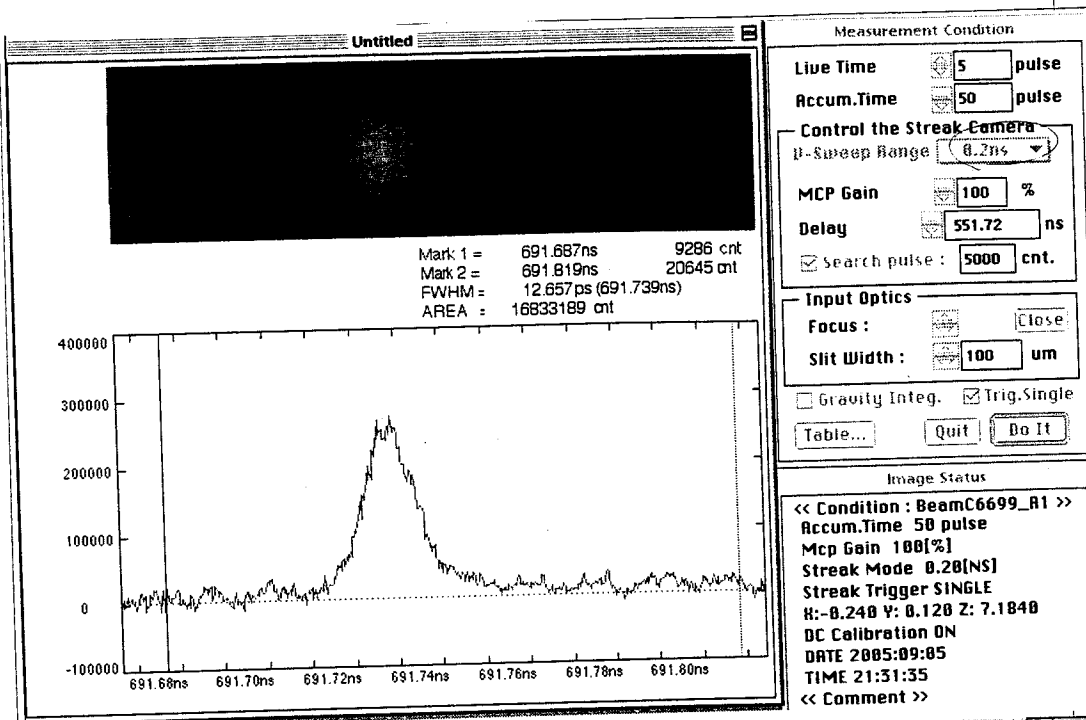
Input Optics  
Focus: Open  
Slit Width: 100 um

Gravity Integ.  Trig. Single

Table... Quit Do It

Image Status

<< Condition: BeamC6699\_A1 >>  
Accum. Time 50 pulse  
Mcp Gain 90[%]  
Streak Mode 5[NS]  
Streak Trigger SINGLE  
H: -0.240 Y: 0.120 Z: 7.1840  
DC Calibration ON  
DATE 2005:09:05  
TIME 21:49:51  
<< Comment >>  
(No Filter)



A~5セクタ  
 phasing 実施。  
 ※ 10ラマータセト

③ Phasing 17 全Unit  
 (使用しない箇所と  
 コンティンション中のKL-C7  
 を除く)  
 を ACC Mode にして  
 測定。  
 r0, kbe の Energy knob  
 設定変更。  
 Feedback と44"を  
 Restart

Sector					
A	B	C	1	2	3
update : 2005/09/05 19:00					
SB_A	100.0				
KL_A1	100.1				
KL_A2	225.60				
KL_A3	102.94				
KL_A4	367.56				
set current kly phase (except KL_B5,B6,S1,S2)					
Save	Close				

Sector					
A	B	C	1	2	3
update : 2005/09/05 21:53					
SB_B	100.0				
KL_B1	159.15				
KL_B2	124.39				
KL_B3	105.85				
KL_B4	268.45				
KL_B5	312.183				
KL_B6	216.845				
KL_B7	411.86				
KL_B8	378.23				
set current kly phase (except KL_B5,B6,S1,S2)					
Save	Close				

Sector					
A	B	C	1	2	3
update : 2005/09/05 22:05					
SB_1	100.0				
KL_11	269.661				
KL_12	160.815				
KL_13	313.636				
KL_14	332.052				
KL_15	270.582				
KL_16	342.324				
KL_17	183.208				
KL_18	105.5				
set current kly phase (except KL_B5,B6,S1,S2)					
Save	Close				

Sector					
A	B	C	1	2	3
update : 2005/09/05 22:32					
SB_2	100.0				
KL_21	249.3				
KL_22	233.638				
KL_23	296.210				
KL_24	66.06				
KL_25	334.48				
KL_27	390.61				
KL_28	302.31				
set current kly phase (except KL_B5,B6,S1,S2)					
Save	Close				

Sector					
A	B	C	1	2	3
update : 2005/09/05 17:44					
SB_4	100.0				
KL_41	189.14				
KL_42	83.05				
KL_43	282.37				
KL_45	186.12				
KL_46	416.07				
KL_47	153.01				
KL_48	242.80				
set current kly phase (except KL_B5,B6,S1,S2)					
Save	Close				

Sector					
A	B	C	1	2	3
update : 2005/09/05 18:54					
SB_5	100.0				
KL_51	433.63				
KL_52	316.63				
KL_53	146.06				
KL_54	402.55				
KL_55	103.60				
KL_56	191.33				
KL_57	375.83				
KL_58	393.40				
set current kly phase (except KL_B5,B6,S1,S2)					
Save	Close				

○ KL\_36, 56 を STB にする。 (+ KL-CCT)

シフトダウン前に STB だった。

18:45

SB-C ~ 4φ 100° → 97.0°

20:24

SB-A ~ Bφ 100° → 97.0°

この状態で

Energy knob

8.080V (Max 8.100)

KEKB e<sup>-</sup> Energy FBは Start.

(offset 0.08)

※ もう1本 ACC にしても良いか?

21:04:53

QD/D\_B6\_4 8.376A → 8.298A

QF\_B6\_4 8.249A → 8.234A

QD/D\_B7\_4 10.476A → 10.955A

QF\_B7\_4 10.720A → 9.993A

QD\_RO\_01 14.037A → 13.582A

QF\_RO\_02 20.352A → 19.238A → 元

QD\_RO\_03 4.000A → 3.971A

QD\_RO\_61 8.952A → 8.396A

QF\_RO\_62 20.220A → 19.941A → 元

QD\_RO\_63 8.190A → 8.557A → 元

QD\_C1\_4 6.281A → 6.574A → 元

QF\_C1\_4 7.341A → 7.814A → 元 (Linac Orbit を見て)

※9/2 日中シフトで実施した Manual Matching を Linac Orbit を見ながら  
チャージ量が増加する箇所のみ変更。

SP\_58\_4 0.7nC → 0.9nC

22:29

Gun Delay FB Offset  $3.815 \times 10^{-9}$  (target 1.280ns) にて Start.

22:33

5X/4Y e<sup>-</sup> Orbit Feedback Start.

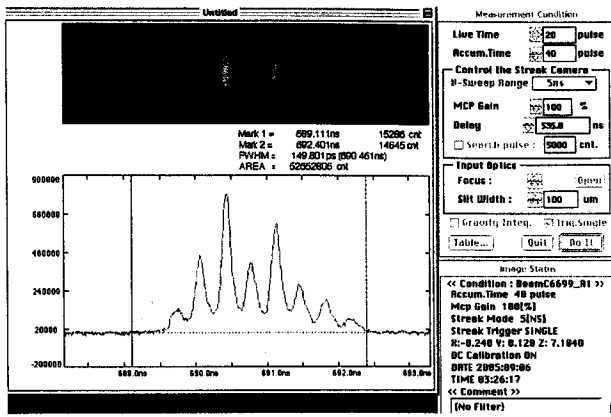
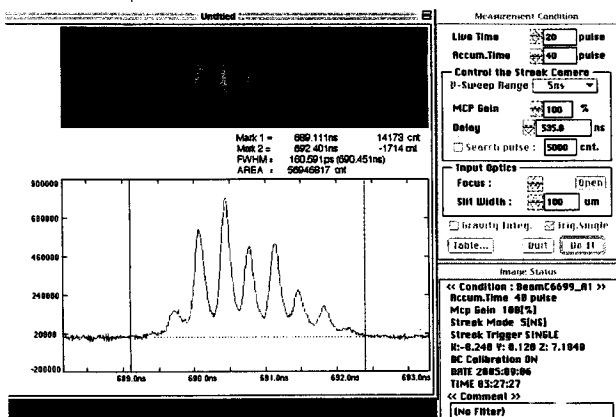
2005.9.6

e<sup>-</sup>調整 e<sup>+</sup>用e<sup>-</sup>A

- AIザリ-7かたヲ見テ Gu-AI Delay, SHB 1,2 中調整、
- Linac Study (4) P.7 と比べて光量が少ないため、Aceta先頭 STC調整に光量増加、
- SHB 1,2 ACC→STB, Gu-AI Delay1調整、

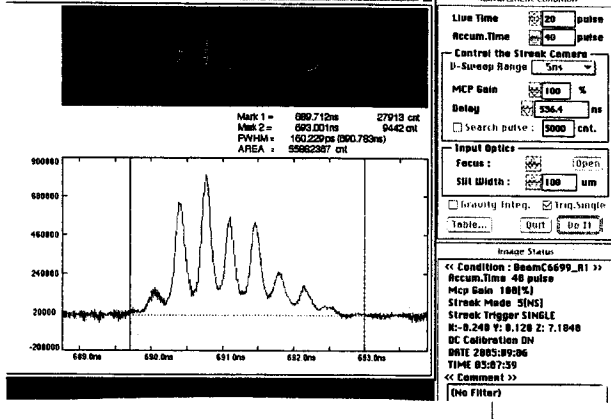
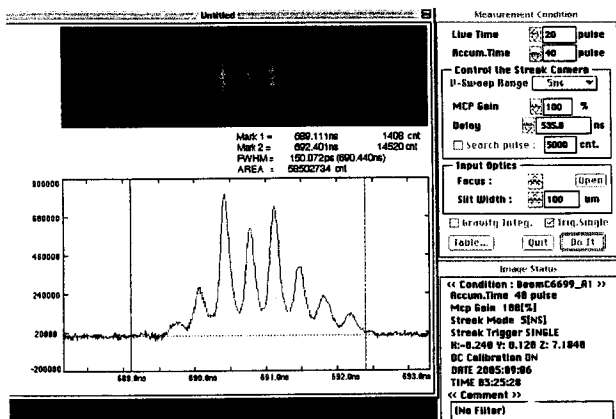
Delay1 = 0.9 ns

Delay1 = 1.0 ns



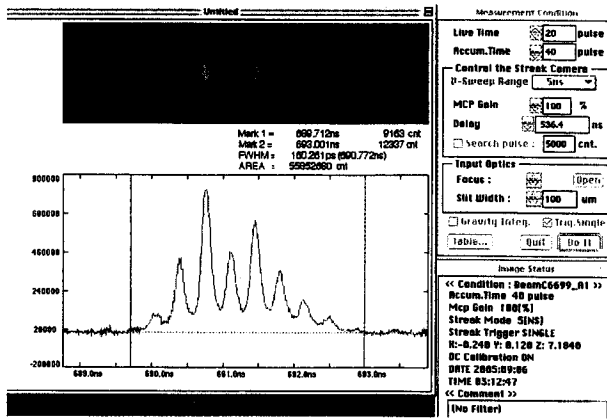
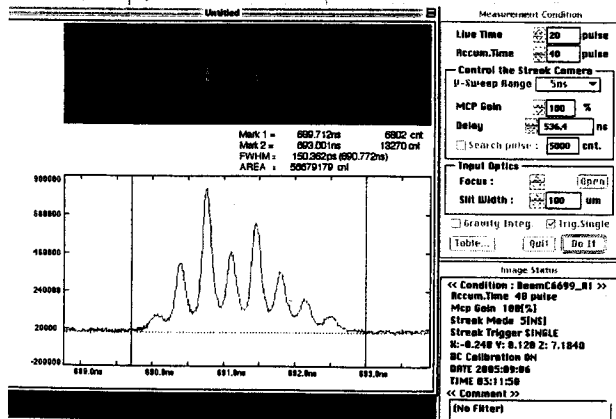
Delay1 = 1.1 ns

Delay1 = 1.2 ns

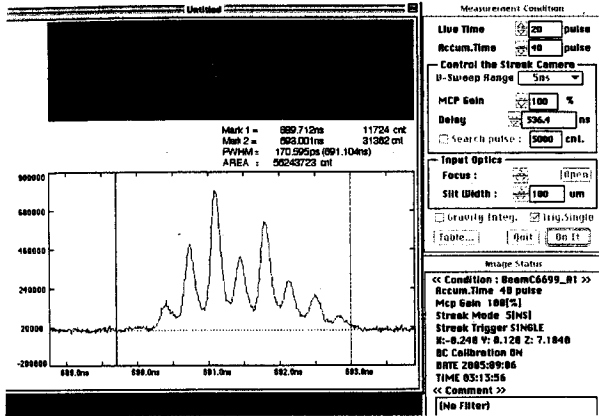


Delay1 = 1.3 ns

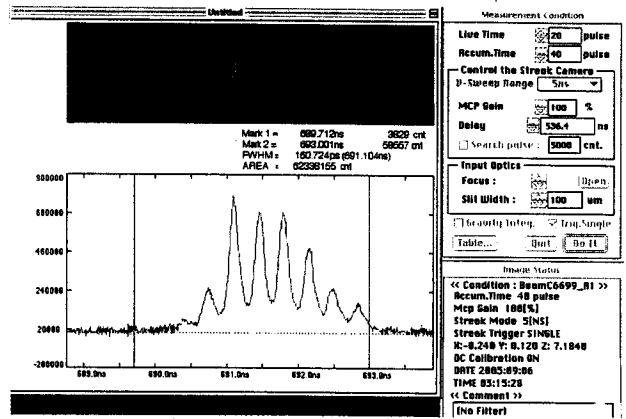
Delay1 = 1.4 ns



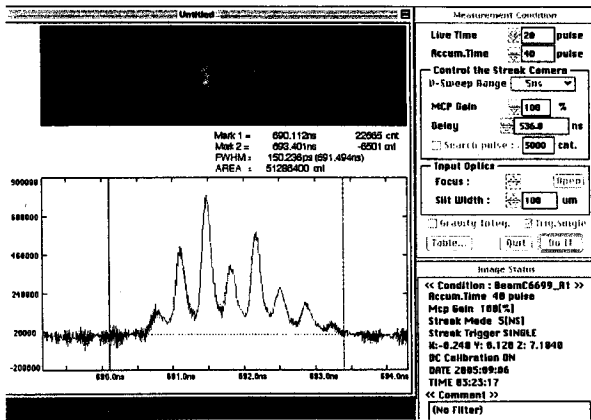
Delay1 = 1.5 ns



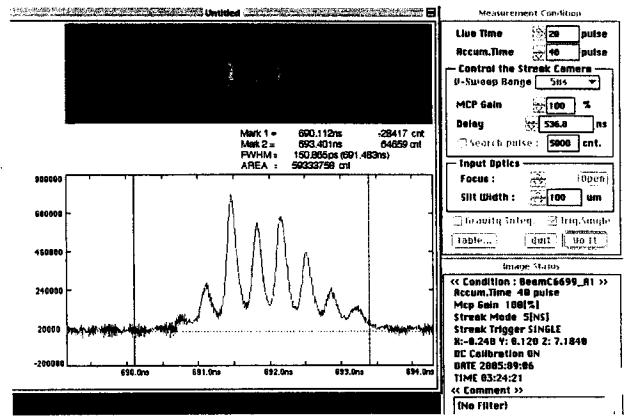
Delay1 = 1.6 ns



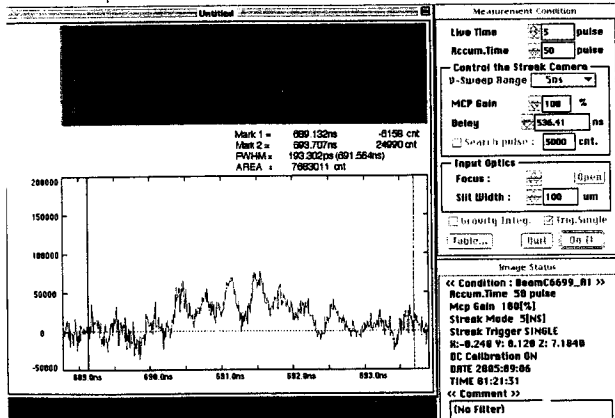
Delay1 = 1.7 ns



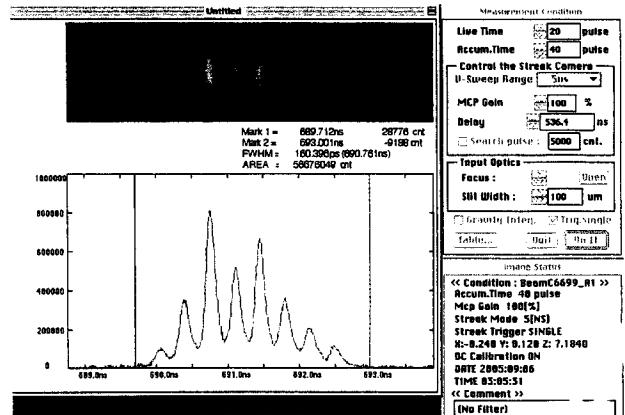
Delay1 = 1.8 ns



A77 光頭 STC調整前  
Delay1 = 1.4 ns

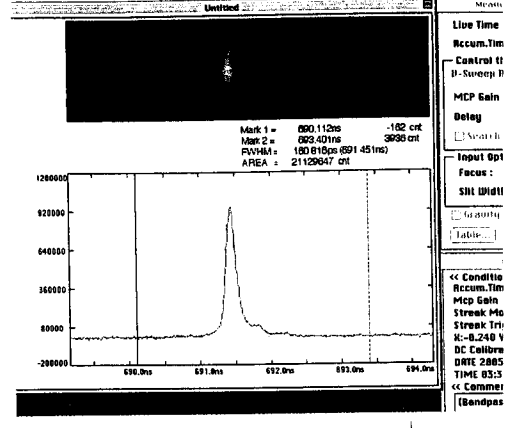
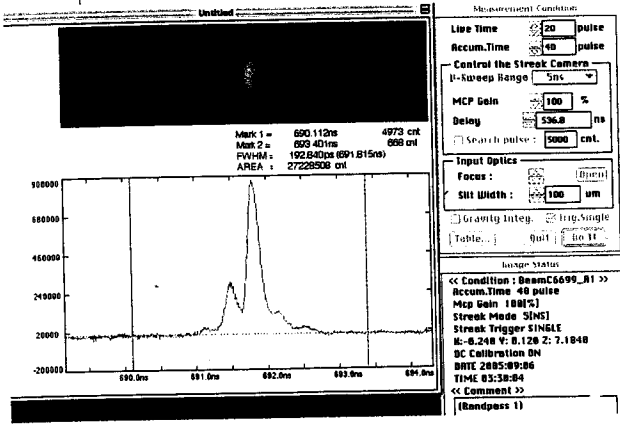


A77 光頭 STC調整後  
Delay1 = 1.32 ns

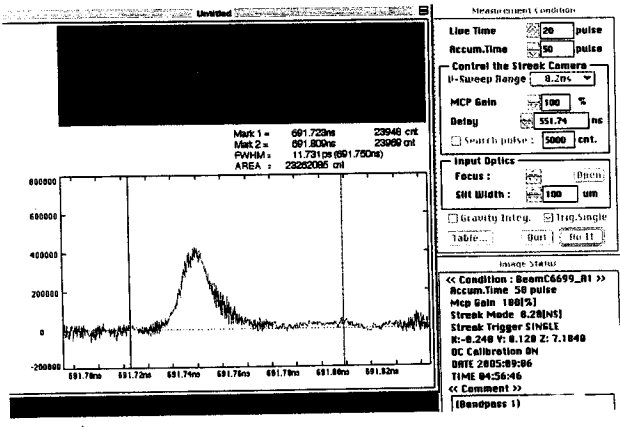


SHB1 = STB → ACC, SHB2 = STB  
 $\phi 360^\circ \rightarrow 359.6^\circ$

SHB1 = ACC  
 SHB2 = STB → ACC  
 $\phi 47.1^\circ \rightarrow 54.0^\circ$



SHB 1, 2 = ACC  
 Delay 1 = 1.32 ns



9/6 昼  $\rightarrow$  夕方 島田

9:45

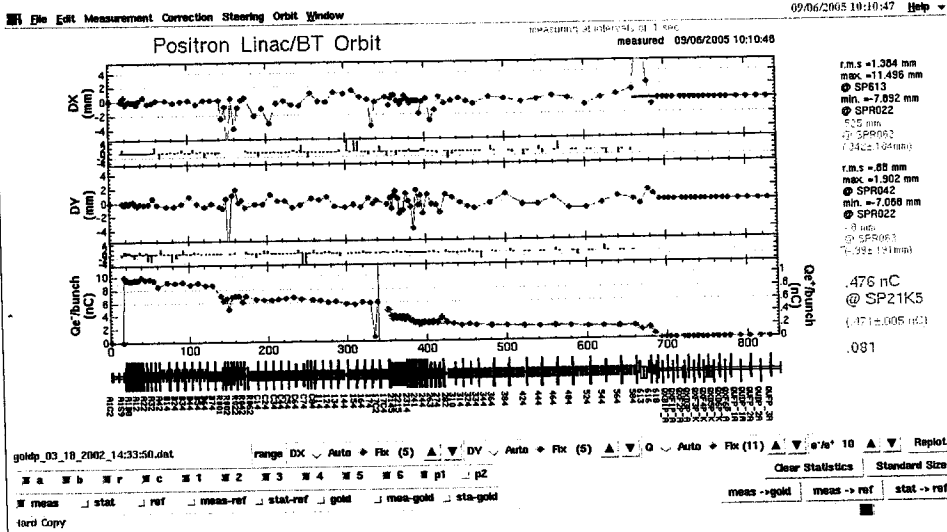
e<sup>+</sup> 調整 終了

KL-18 105.5  $\rightarrow$  227.5  $\rightarrow$  322.5

KL-4 229.3  $\rightarrow$  280  $\rightarrow$  106.7

10:00

phase の 変動 20% 以下! 理由は KL-18 の  $\phi$  の 大 変 変動 による!  
 $\phi$  の 朝 a 進 に 設定 178.12 beam current 2  $\rightarrow$  PC  
 朝 a 調整 1 = 完了



10:20

29% open/close の問題

open の 調整 0.48 nC  
 close の 調整 0.471 nC

10:30

10%  $\rightarrow$  20% 60p5 前 = 終了 KL-18 の 14% 調整 10%  $\rightarrow$  20%

- TD40 設定は 178.12 だが 実際には 4%  $\rightarrow$  20% まで 変動 している
- 原因は 7.4% の 変動 による Target の 7% 調整 による e<sup>+</sup> 4% 量 の 変化 による 4% 調整 による
- 10%  $\rightarrow$  20% 調整 178.12 による Set による

10:30

10% の 7%  $\rightarrow$  20% 調整 による e<sup>+</sup> 4% 量 の 変化 による



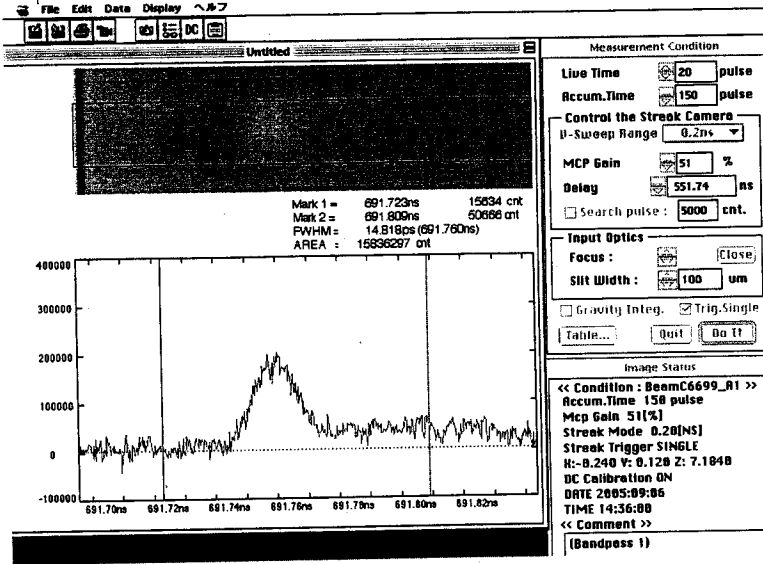


13:43

AB 2nd 7" (K.H.)

SC-84-2 動作時間 4.3ms - 2.5ms 2.1ms 2.1ms 2.1ms 2.1ms

AB 動作時間 7ms - Matching 2.4ms 2.4ms 2.4ms



①. Gun Delay 7ms 2.1ms  
2.1ms

14:45

SH A1-SB  $\phi$  54.1 deg  $\rightarrow$  53.4  $\rightarrow$  54.5  
 $\rightarrow$  54.2  $\rightarrow$  55.1  $\rightarrow$  52.9  
 (17.45ps) (16.258ps) (18.962ps)

SHB1, 2 = ON 1.2ms 2.1ms

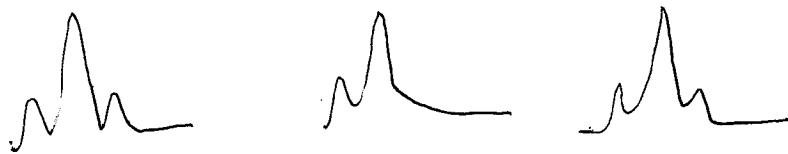
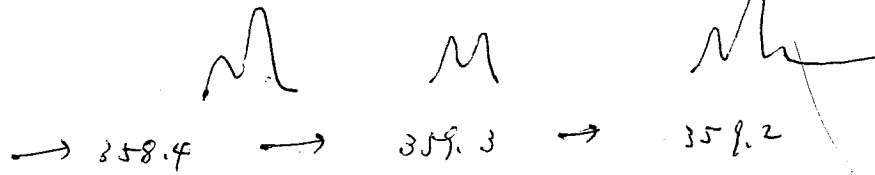


14:52

SHB2=STB, SHB1=Acc.

SHB1  $\phi$  = 359.6  $\rightarrow$  360.5  $\rightarrow$  ~~359.6~~  
 (7x)

358.9



14:30 Gun Delay 7ms 2.1ms  
Delay 1.3ms ref

