

2007.03.22-17:59:58 Taking data !! PlotSpan: 10mins 1hour 6hours 1day Opt Ent

Es: 44.800 Power: 43.3 Pr: 43.5 Pb: 0.0 VSWR: 1.00 FCS: Normal Es-max: 45.040 history

LV: OK ON Auto-Es-Up OFF IP\_XX 1.05e-06 cc\_XX 2.04e-07 Recent Trips

HV: OK OK ON Auto-RF-ON ON IP\_XA 2.16e-06 cc\_XA 1.42e-06 03/21-18:02 vswr= 1.58 :pf= 0.0 :fb= 0.0 (Es=44.400)

TG: OK ON FallCount 1032 IP\_XB 5.99e-07 cc\_XB 5.58e-07 03/21-17:47 vswr= 1.48 :pf=42.1 :fb= 0.0 (Es=44.400)

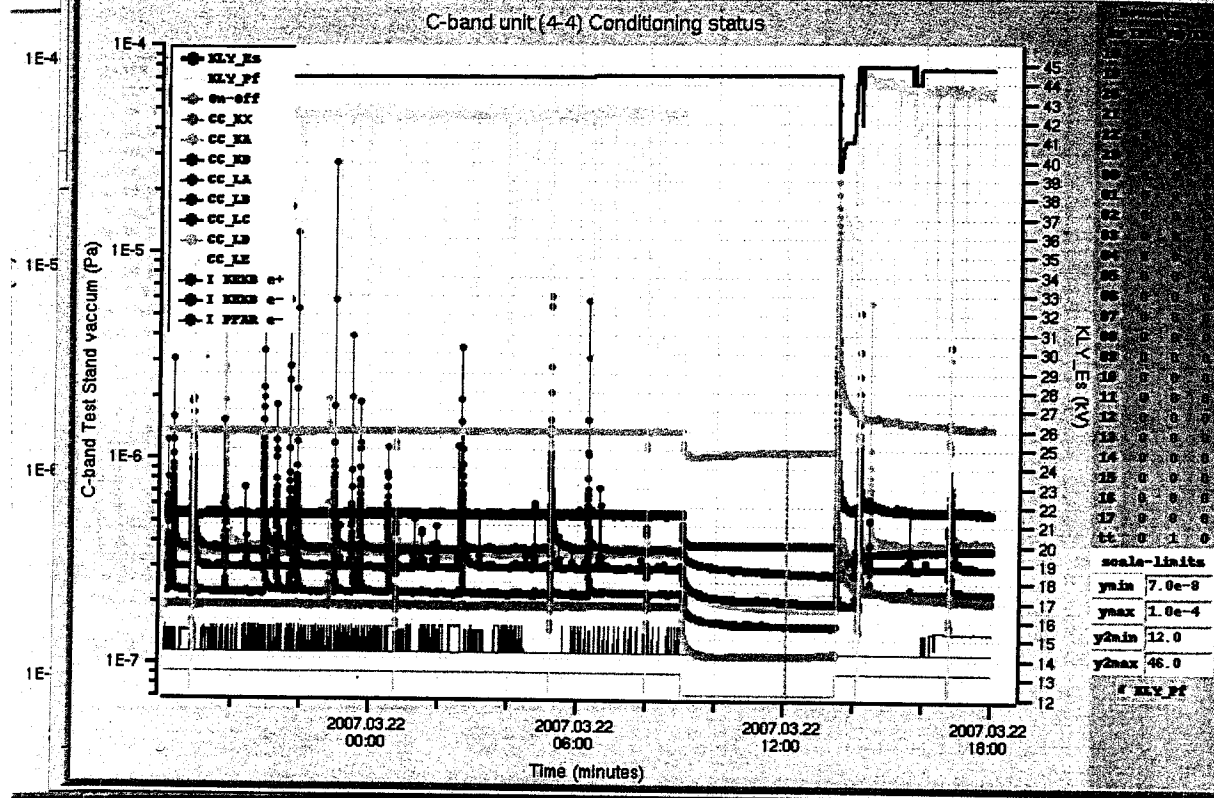
RF: OK ON HaltTime(sec) 11194 IP\_XC 3.81e-07 cc\_XC 2.26e-07 03/21-18:48 vswr= 1.61 :pf= 0.0 :fb= 0.0 (Es=44.400)

Beam Status KeepTime(min) 1032 IP\_XD 4.14e-07 cc\_XD 3.67e-07 03/22-00:44 Ishwata\_ (Es=44.400)

KEKB e- ON(A) StepUp(sec) 39153 IP\_XE 4.02e-07 cc\_XE 3.00e-07 03/22-07:58 Ishwata\_ (Es=44.400)

0.981 0.012 nC -dV(volt) 1032 IP\_XF 4.46e-07 cc\_XF 3.92e-07 03/22-09:01 Misohagi (Es=44.400)

Goal-Es(kV) 40153 IP\_XG 3.34e-07 cc\_XG 2.39e-07 03/22-14:05 IPulsesec (Es=44.300)



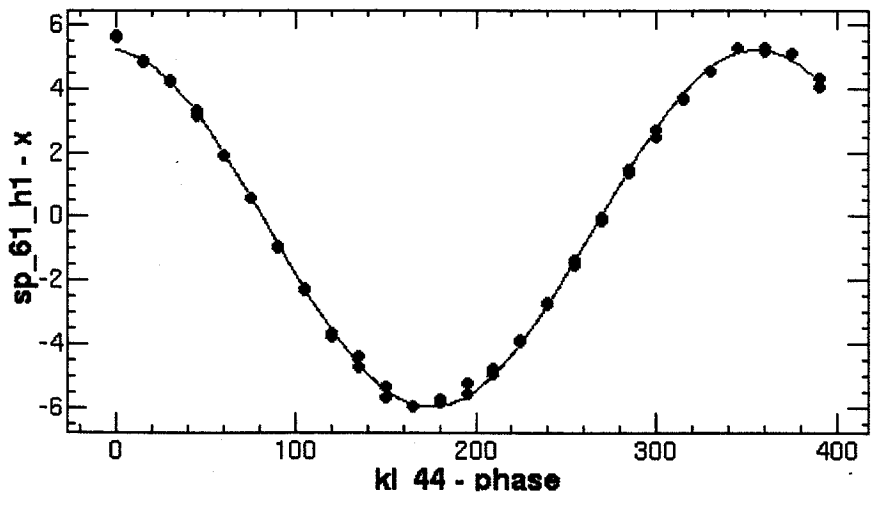
File Edit Window 03/22/2007 18:09:50

quare = 1.47605 Goodness = .47366

5.58641 +/- .03189 c = 175.425 +/- .35092 d = -.37557 +/- .02340

$$E_{gain} = \frac{5.58}{307.5} \times 8000 \text{ MeV}$$

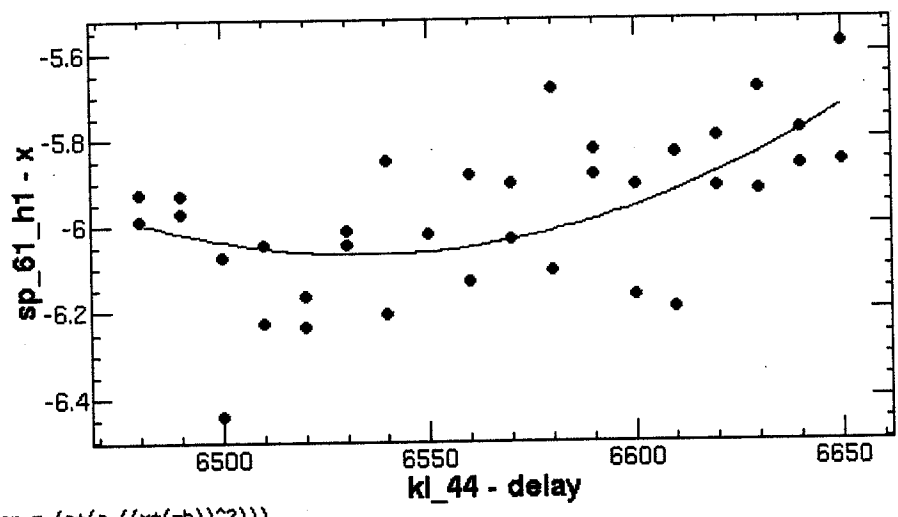
$$= 145.17 \text{ MeV}$$



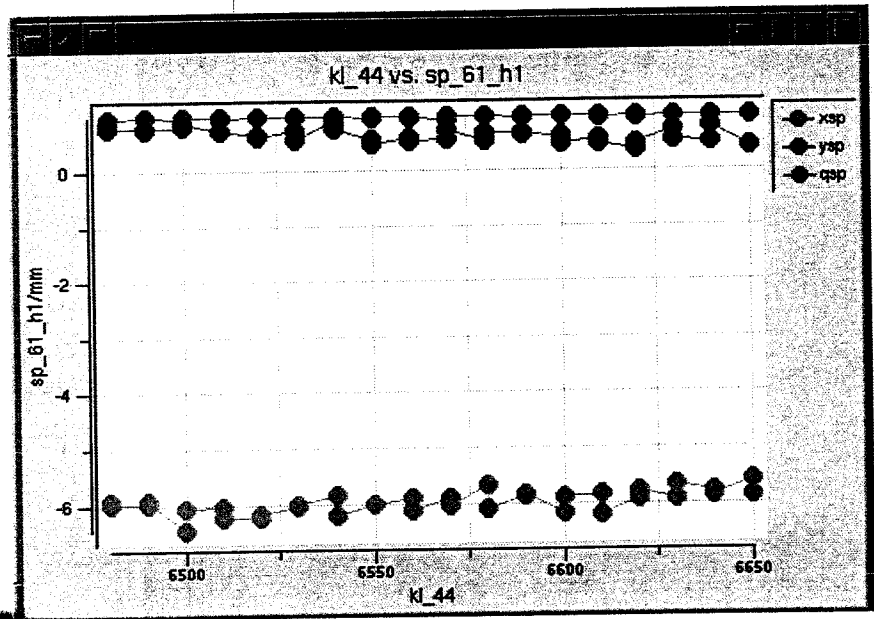
$$\frac{145.17}{0.96225 \times 4} = 37.7 \text{ MV}$$

←このデータから  
161.8° → 175° に補正

ChiSquare = .73616 Goodness = .46725  
 a = 2.54E-5 +/- 1.04E-5      b = 6534.15 +/- 15.7196      c = -6.0673 +/- .03415

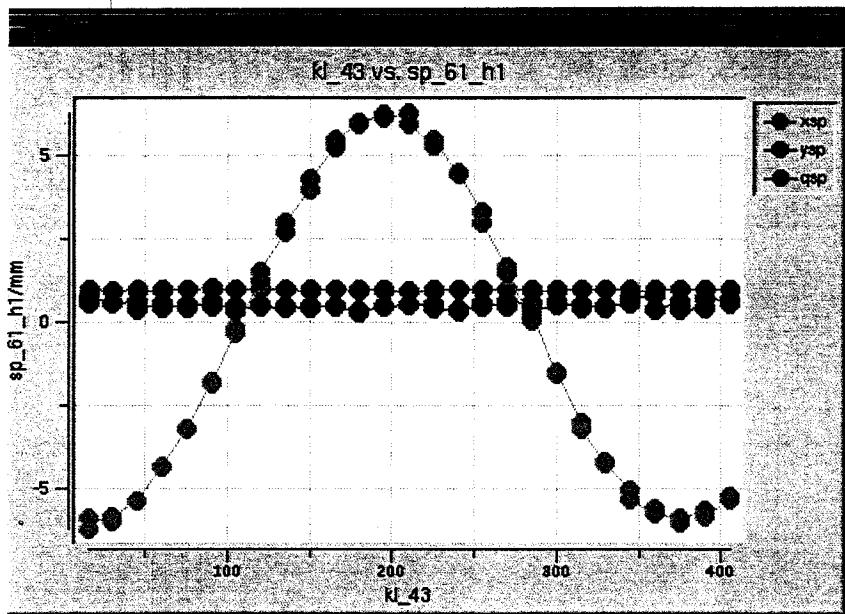


Function = (c+(a ((x+(-b))^2)))



KL-44 真空ハネ落ち

3 S-band



$$E_{gain} = \frac{6.1}{307.5} \times 8000 = 158.7 \text{ MeV}$$

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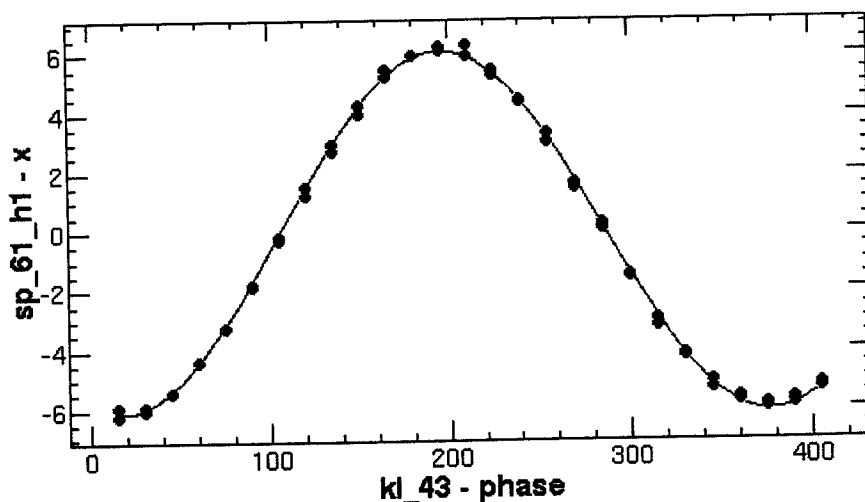
03/22/2007 19:21:39

ChiSquare = 1.03049 Goodness = .47366

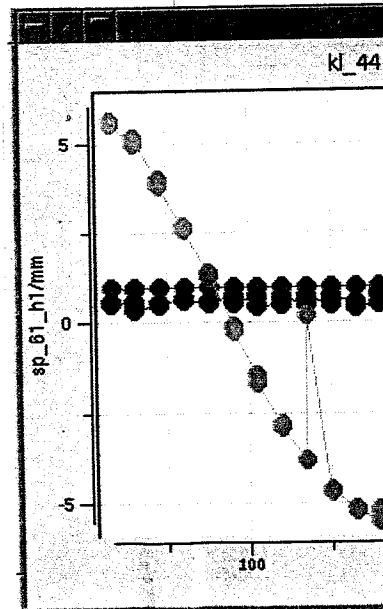
a = -6.1066 +/- .02650

c = 196.291 +/- .26947

d = .00147 +/- .01955



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



$$E_{gain} = \frac{5.65}{307.5} \times 8000 = 147.98 \text{ MeV}$$

2007.03.22-19:35:20 Taking data !! PlotSpan: 10mins 1hour 8hours 1day Opt Exit

Es: 44.800 Power: 43.3 Pr: 43.8 Pb: 0.0 VSWR: 1.00 FCS: Normal Es-max: 45.040 history

LV: OK ON Auto-Es-Up OFF  
 HV: OK OK ON Auto-RF-ON ON  
 TG: OK ON FallCount 1032  
 RF: OK ON HaltTime(sec) 11194  
 Beam Status StepUp(sec) 39153  
 KEKB e- ON(A) -dV(volt) 1032  
 0.991 0.018 nC Goal-Es(kV) 40153

IP	CC	Value	Recent Trips
IP_KX	CC_KX	1.05e-06	1.97e-07
IP_KA	CC_KA	1.96e-06	1.39e-06
IP_KB	CC_KB	5.93e-07	5.52e-07
IP_LA	CC_LA	5.03e-07	3.03e-07
IP_LB	CC_LB	5.23e-07	4.45e-07
IP_LC	CC_LC	4.22e-07	3.17e-07
IP_LD	CC_LD	4.45e-07	3.95e-07
IP_LE	CC_LE	3.34e-07	2.34e-07

Recent Trips

Date/Time	Event	Es (kV)
03/22-09:01	Discharge	44.440
03/22-14:05	IPulseSec	44.900
03/22-16:45	Isbanta	44.800
03/22-18:28	Isbanta	44.800
03/22-18:32	VSWR= 1.48 : Pf= 0.0 : Pb= 0.0	44.800
03/22-18:34	VSWR= 1.45 : Pf=44.0 : Pb= 0.0	44.800
03/22-18:36	VSWR= 1.52 : Pf=40.8 : Pb= 0.0	44.800
03/22-18:38	VSWR= 1.50 : Pf= 0.0 : Pb= 0.0	44.800
03/22-18:38	Inv_err	44.800

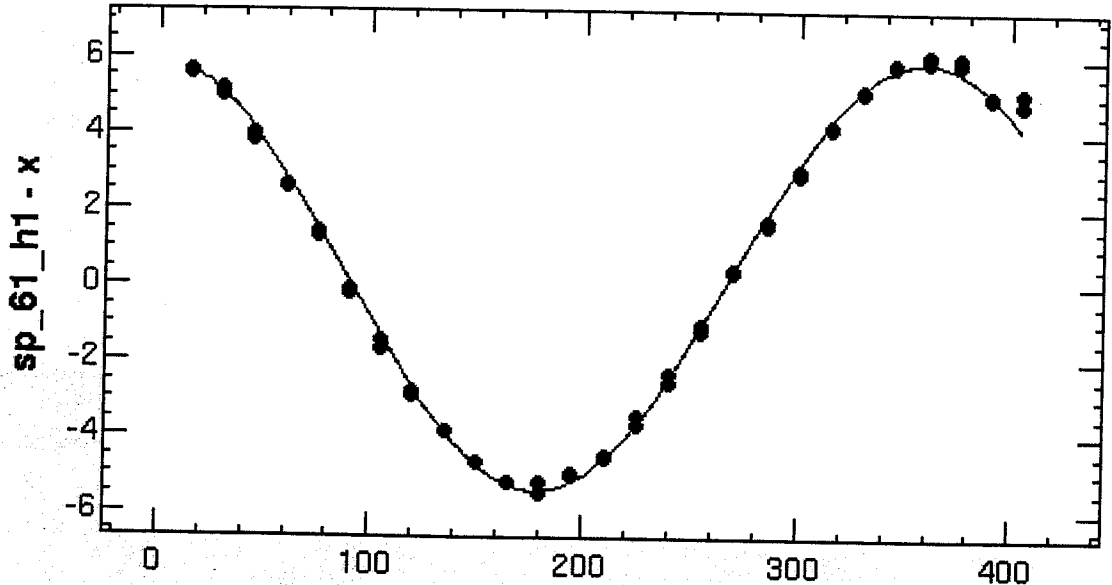
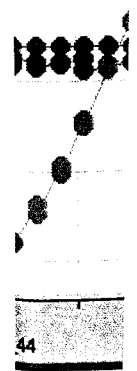
Scale Limits: ymin 7.0e-8 ymax 1.0e-4 y2min 12.0 y2max 46.0

File Edit Window 03/22/2007 19:39:37 H

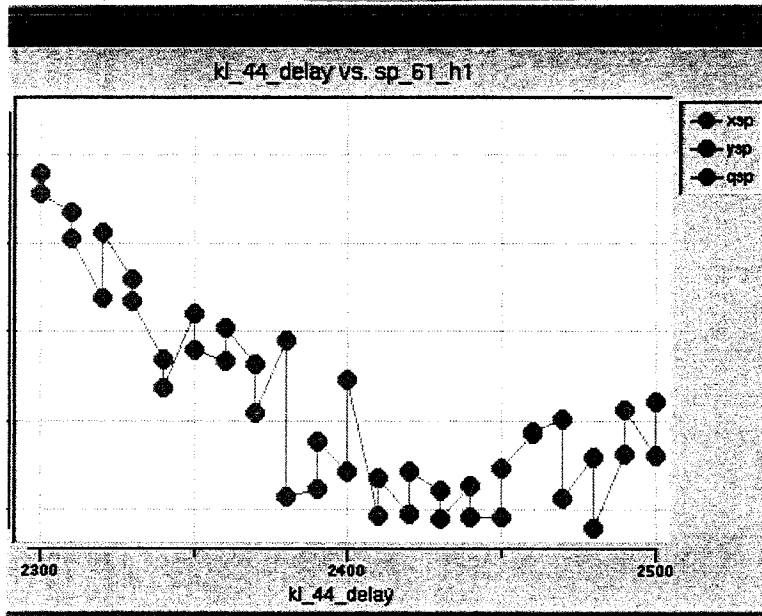
ChiSquare = 2.77723 Goodness = .47340

a = 5.65866 +/- .04552 c = 178.412 +/- .47801 d = .22941 +/- .03278

sp\_61\_h1



Function = (d+(a Cos[(-180+x+(k)44) phase

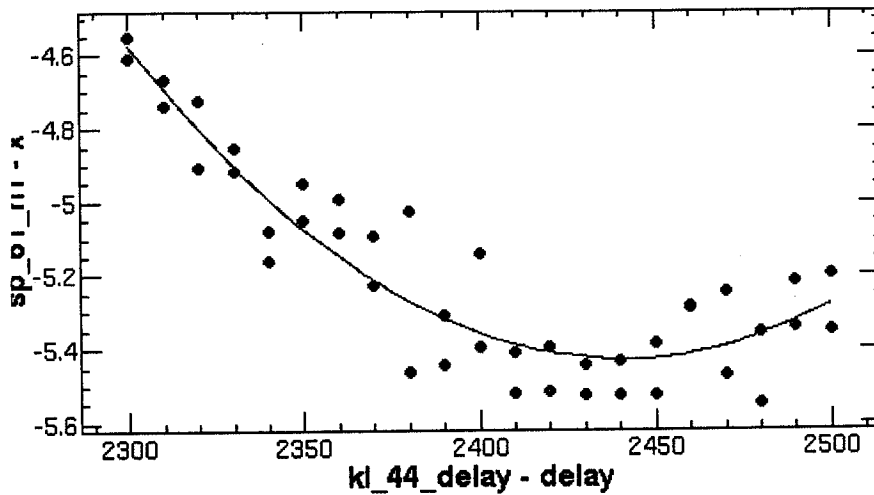


KL44-delay  
 2402 → 2425 ns | = 2.3 μs  
 2.3 μs

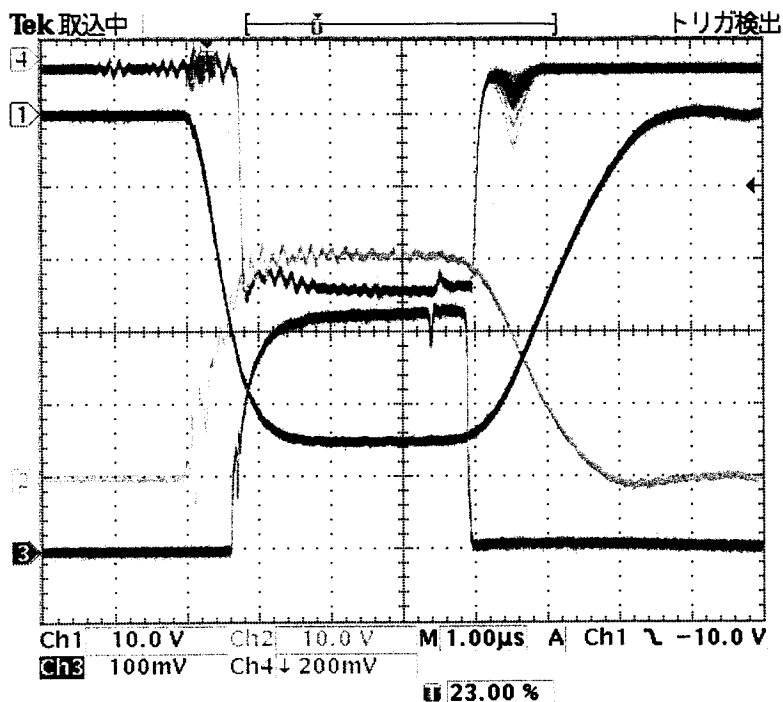
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03/22/2007 19:52:07

r = .46076 Goodness = .46988  
 s = 5 +/- 5.13E-6 b = 2440.92 +/- 5.84910 c = -5.4276 +/- .02268



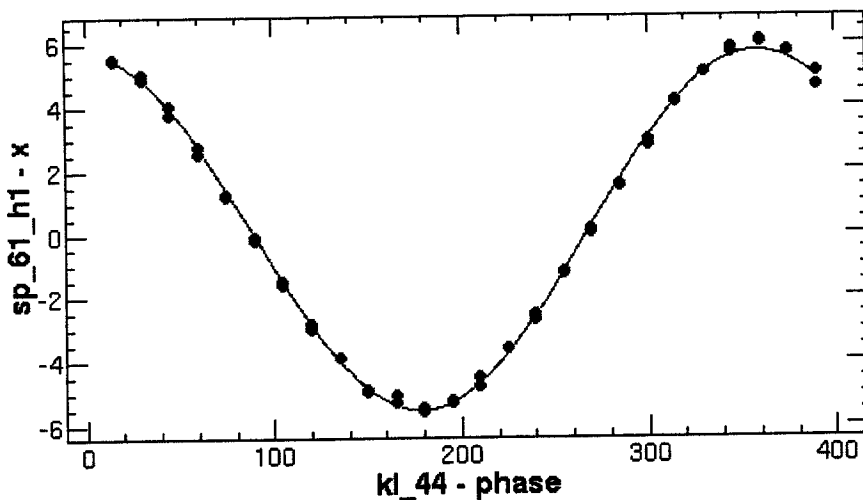
$$y = (c + (a * ((x + (-b))^2)))$$



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03/22/2007 20:01:25 Help

ChiSquare = 1.22152    Goodness = .47313  
 a = 5.62622 +/- .03040    c = 178.510 +/- .32424    d = .10185 +/- .02201



44.  
 42  
 40  
 38

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

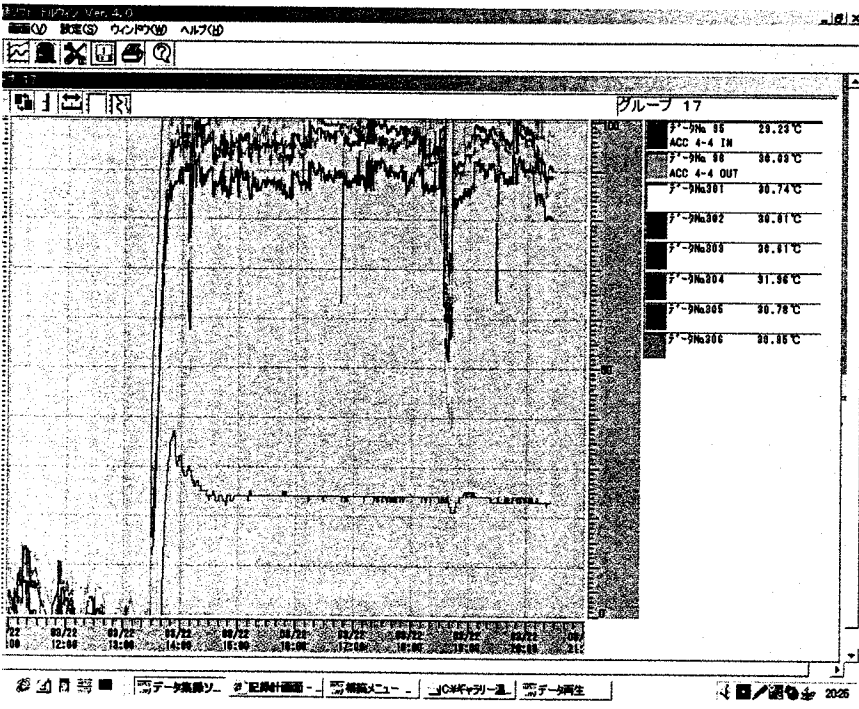
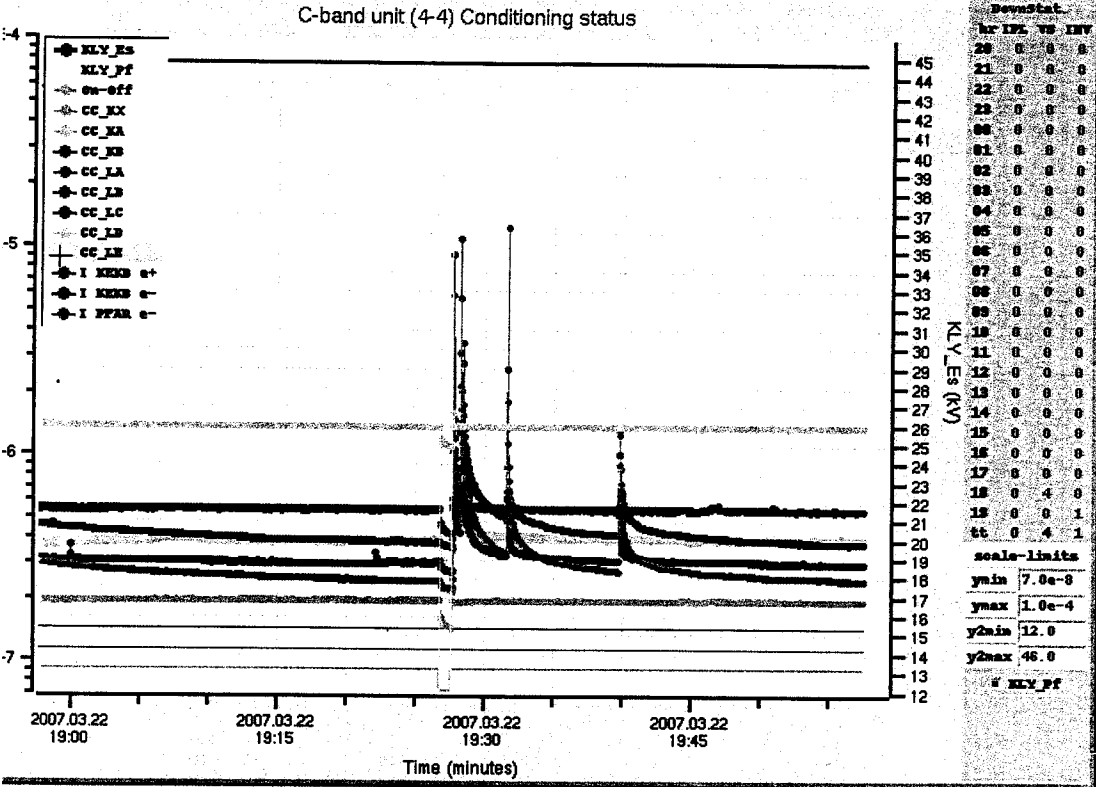
Hard Copy

$$E_{gain} = \frac{5.62}{307.5} \times 8000 = 146.2 \text{ MeV}$$

7.03.22-19:57:33 Taking data !! PlotSpan: 10mins 1hour 6hours 1day Exit

44.800 Power: 43.3 Pf: 43.6 Pb: 0.0 VSWR: 1.00 FCS: Normal Es-max: 45.040 history

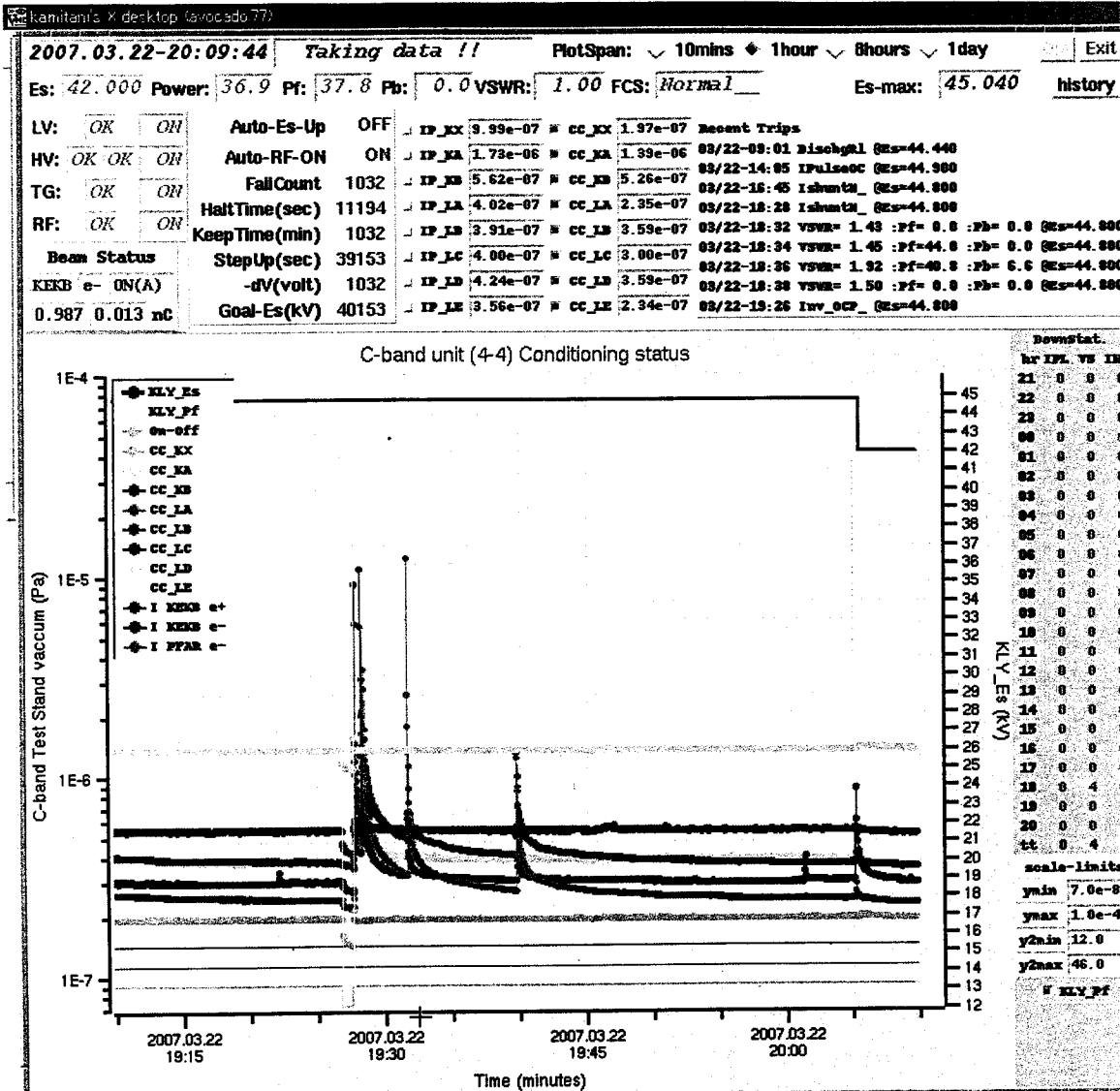
OK	ON	Auto-Es-Up	OFF	IP_IX	8.93e-07	cc_IX	1.96e-07	Recent Trips
OK	OK	Auto-RF-ON	ON	IP_XA	1.74e-06	cc_XA	1.39e-06	03/22-09:01 Dischgal @Es=44.800
OK	ON	FailCount	1032	IP_IX	5.99e-07	cc_IX	5.42e-07	03/22-14:05 IPulsecc @Es=44.800
OK	ON	HalfTime(sec)	11194	IP_LA	4.25e-07	cc_LA	2.46e-07	03/22-18:45 Ishamu @Es=44.800
OK	ON	KeepTime(min)	1032	IP_LB	4.14e-07	cc_LB	3.78e-07	03/22-18:28 Ishamu @Es=44.800
OK	ON	StepUp(sec)	39153	IP_LC	3.98e-07	cc_LC	3.08e-07	03/22-18:34 VSWR= 1.43 :Pf= 0.0 :Pb= 0.0 @Es=44.800
OK	ON	-dV(volt)	1032	IP_LD	4.45e-07	cc_LD	3.89e-07	03/22-18:36 VSWR= 1.92 :Pf=40.0 :Pb= 0.0 @Es=44.800
OK	ON	Goal-Es(kV)	40153	IP_LE	3.94e-07	cc_LE	2.35e-07	03/22-18:26 Inv_OCP @Es=44.800



$\sqrt{43.6} = 6.6$

$\frac{\sqrt{43.6}}{\sqrt{37.8}} = 1.0735$

KL-44-delay 2425 → 2402 (元値) にセット



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03/22/2007 20:14:19

√378

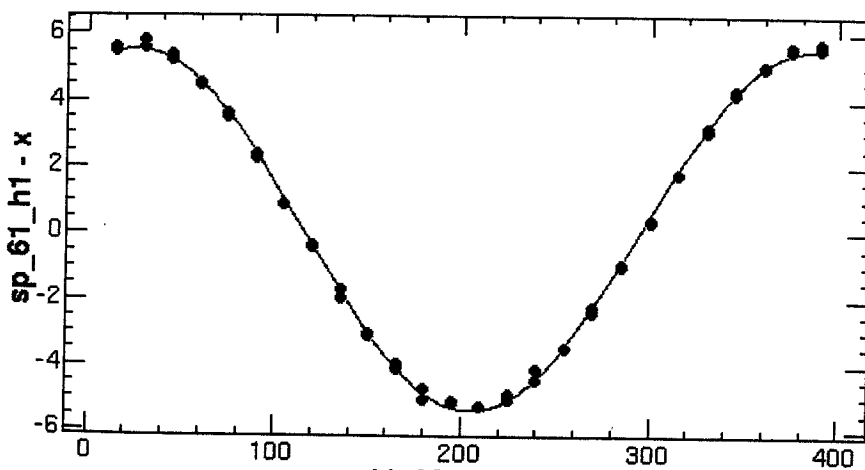
ChiSquare = .81369 Goodness = .47313

a = 5.45716 +/- .02452

c = 205.240 +/- .27576

d = .08052 +/- .01797

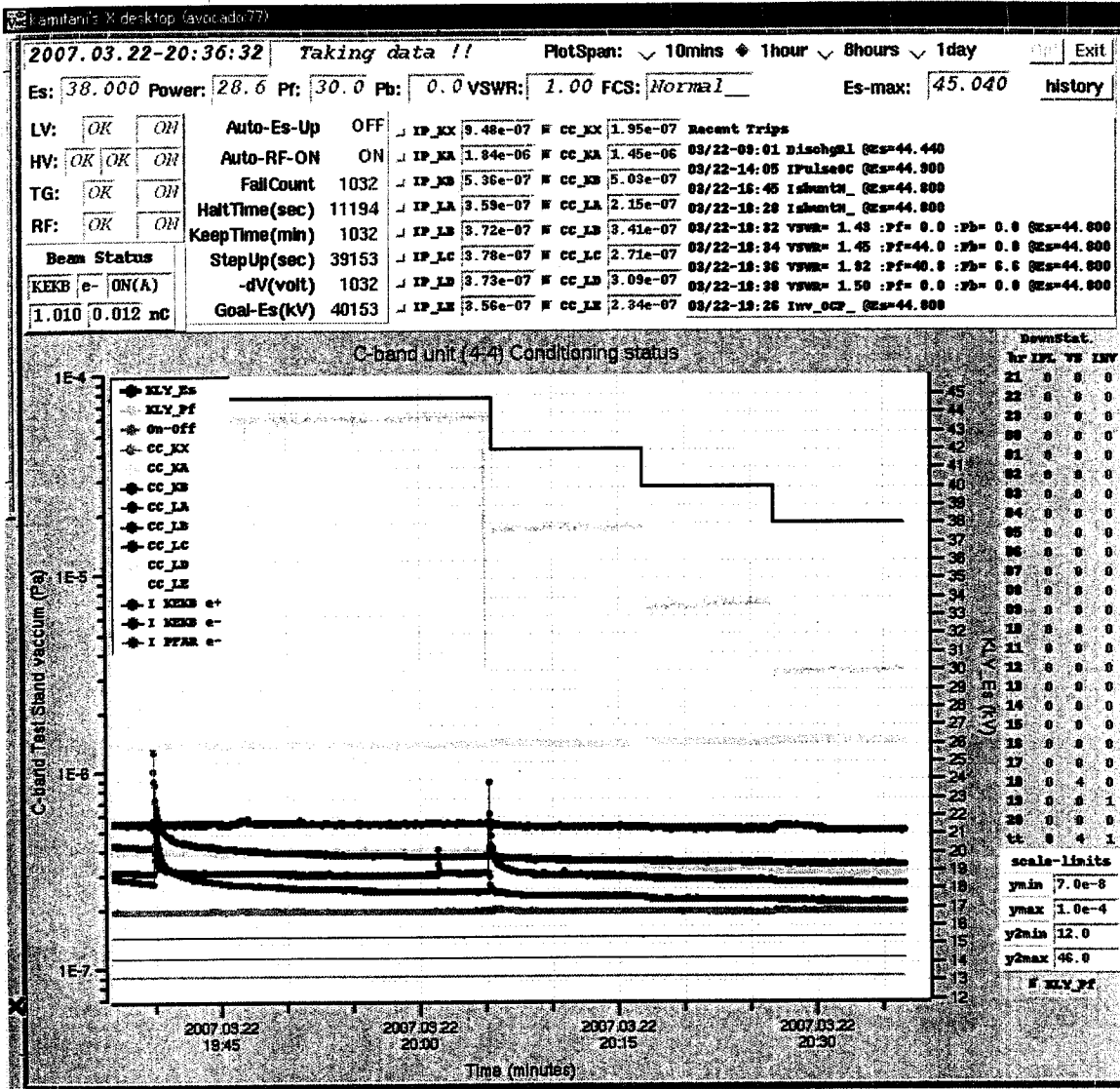
$$E_{gain} = \frac{5.457}{307.5} \times 8000 = 141.9 \text{ MeV}$$



Function = (d+(a Cos[ (.0174532925 (-180+xx(-o)) ]))



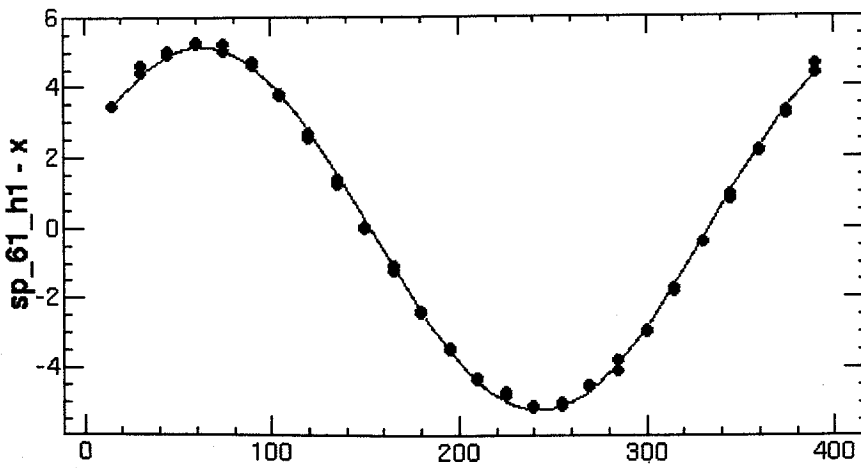




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03/22/2007 20:36:04 1

re = 1.08668 Goodness = .47313  
 B800 +/- .02920 c = 242.967 +/- .32601 d = -.04240 +/- .02076



n = (d+(a Cos[(.0174532925 (-180+x+(-o))])))