PMT	_ HV board	HV module
Data directory name		-
Your name		
Gain calibration Date _	Time	Room temperature
Settings		
$\Box$ Helmholtz coil X	18.0 V Y 12.0 V	
■ Low voltage		
$\blacksquare Current when V_{ctrl} =$	3.5 V	
$\Box$ Filter 1 % + 0.1 %	76	
$\Box$ Intensity 5.8		
$\Box$ Frequency 100 Hz	4	
$\Box$ Resolution 500 ps		
■ Horizontal range (MU	ST include $-100 \text{ ns} - \sim 15$	50 ns)
$\Box$ Trigger low enoug	h	
■ Scan control voltages	( )( )(	)())
Analyses		
Gain scan		
■ Gate start time		
$\blacksquare V_{\text{ctrl}}$ @1e7 gain _		
$V_{\rm ctrl}$ @1e7 gain		
■ SPE mean charg		
■ SPE peak height		_
Linearity & afterpulse	Date Time	Room temperature
Settings		
$\Box$ Helmholtz coil X	18.0 V Y 12.0 V	
■ Low voltage		
$\blacksquare Control voltage (MUS)$	ST $V_{\text{ctrl}}$ @1e7 gain)	
Current		
$\Box$ Intensity 14		
$\Box$ Frequency 10 Hz		
$\Box$ Resolution 1 ns		
$\Box$ Horizontal range	$-20~\mu\mathrm{s}-20~\mu\mathrm{s}$	
Analyses		
_		

2D scan	Date	Time	Room ten	perature
Setting	gs			
□ He	lmholtz coil	X 18.0 V	Y 12.0 V	
∎ Lo	w voltage			
Co	ntrol voltage	e (MUST $V_{\text{ctrl}}$ @16	e7 gain)	-
■ Cu	irrent			
🗆 Fil	ter $1\%$	+ 1 %		
🗆 Int	ensity 8	.5 (Pulse height sh	and $\sim 600 \text{ mV}$ )	
$\Box$ Fre	equency	100 Hz		
$\Box$ Re	solution	500  ps		
■ Ho	rizontal ran	ge (MUST include	$-100 \text{ ns} - \sim 150 \text{ ns}$	·
■ #v	vaveforms at	t each point		
Analys	ses			
Dark rate	9			
Put into fr	eezer	Date	Time	-
Start takin	g data	Date	Time	Freezer temperature (MUST $\sim -30$ °C)
Take out fi	com freezer	Date	Time	_ Freezer temperature
Setting	gs			
∎ Bla	ack tape	Yes No		
∎ Lo	w voltage			
■ Co	ntrol voltage	e (MUST $V_{\text{ctrl}}$ @16	e7 gain)	-
■ Cu	irrent			
$\Box$ Re	solution	2 ns		
□ Ho	rizontal ran	ge $-20 \text{ ms} - 20$	ms	
$\Box$ Ve	rtical range	2  mV/div		
	igger 2 r	nV		
Analys	ses			
■ #f	iles (MUST	$\geq 500)$		
∎ Gε	ussian fittin	g range		
∎ SP	E mean cha	rge		
Da	rk rate for (	0.25 PE threshold	and 100 ns deadtime	

 $\hfill\square$  Put the json file into database

 $\Box\,$  Print out the plots