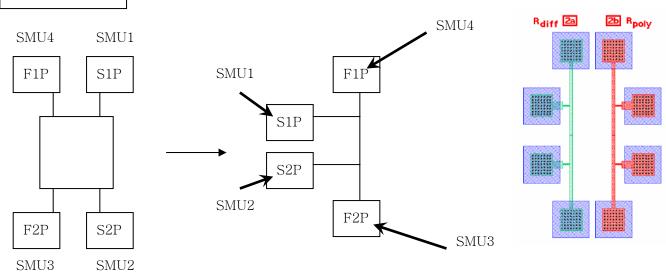
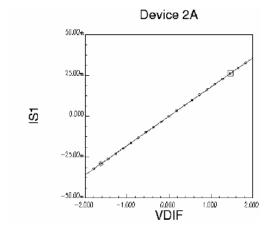
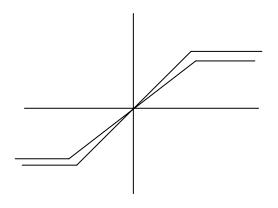
### **24 & 2**B **- 4155B -** SHEET Mode

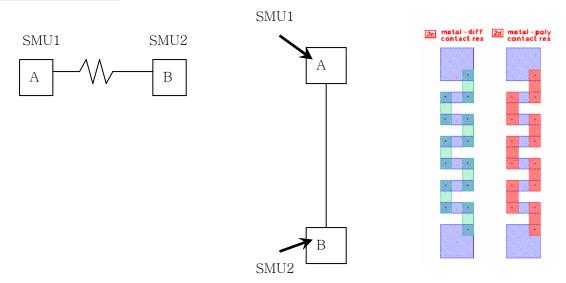


	Stimulus	Measure	Sweep
F1P (SMU4)	Current	Current	Sweep
			Start -0.1
			Stop 0.1
			Compliance 5
F2P (SMU3)	Voltage		Constant
S1P (SMU1)	Current	Voltage	Constant
			Compliance 5
S2P (SMU1)	Current	Voltage	Constant
			Compliance 5

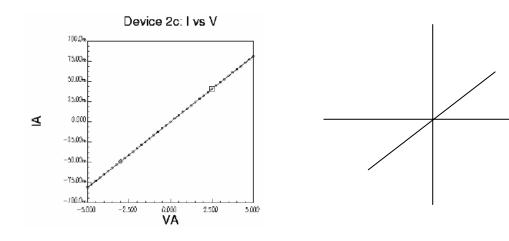




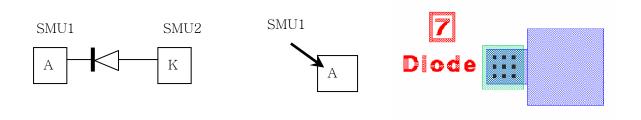




3·				
	Stimulus	Measure	Sweep	
A	Voltage	Voltage	Sweep	
		Current	Start -5	
			Stop 5	
В			Constant	

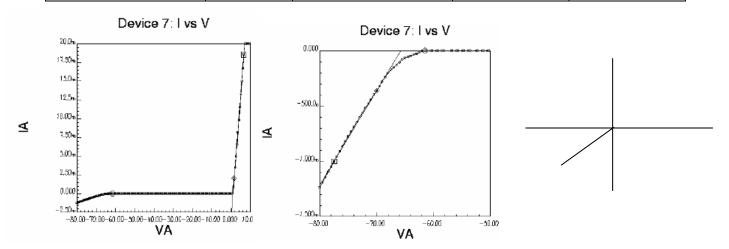


# **7** - **4155B** - DIODE mode

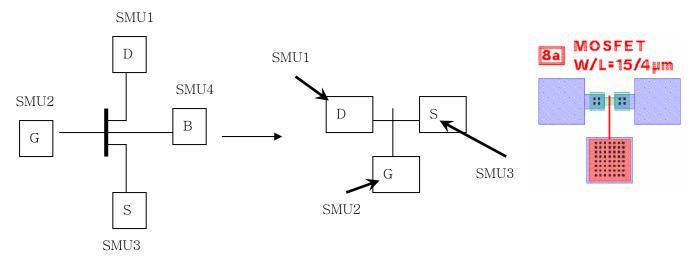


Please make sure to connect a stage connector to "SMU2."

	Stimulus	Measure	Sweep	Sweep
Α	Voltage	Voltage	Sweep	Sweep
		Current	Start -1	Start -40
			Stop 1	Stop 40
				Compliance 0.05
K			Constant	-40
				Compliance 0.05



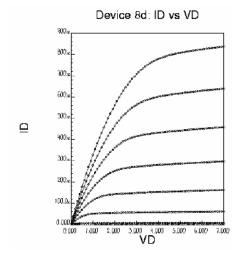
### **8, 9, 10, 11, & 12** - **4155B** - MOSFET mode

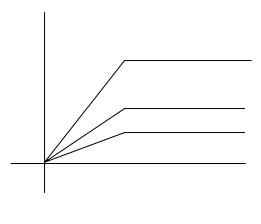


Please make sure to connect a stage connector to "SMU4."

#### Setting for Measurement #1

	Stimulus	Measure	Sweep
D	Voltage	Voltage	Sweep
		Current	Start 0
			Stop 5
S	Voltage		Constant
В	Voltage		Constant
G	Voltage		Step
			Start 0
			Stop 5
			Step size 1

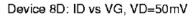


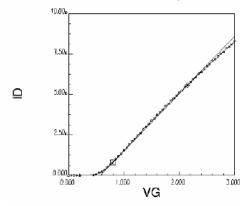


### Setting for Measurement #2

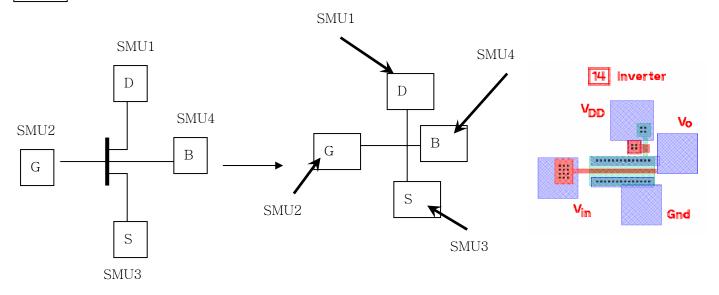
Don't forget to turn off the light of the microscope. The light will induce much noise.

	Stimulus	Measure	Sweep
D	Voltage	Current	Constant 0.05
S	Voltage		Constant
В	Voltage		Step
			Start 0
			Stop -2
			Step size -1
G	Voltage	Voltage	Sweep
			Start 0
			Stop
			(Device #8 up to 12)
			(Others up to 5)





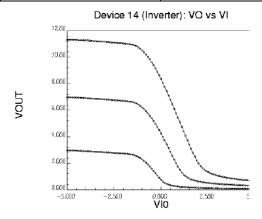
### **14** - **4155B** - MOSFET mode



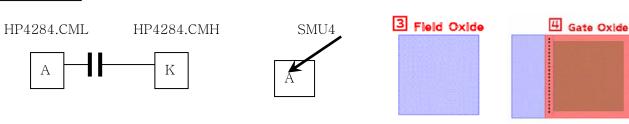
Please make sure to connect a stage connector to "SMU3."

#### Setting for Measurement

	Stimulus	Measure	Sweep
D	Voltage		Step
			Start 5
			Stop 15
			Step size 5
S	Voltage		Constant
В	Current	Voltage	Constant
G	Voltage	Voltage	Sweep
			Start -5
			Stop 5





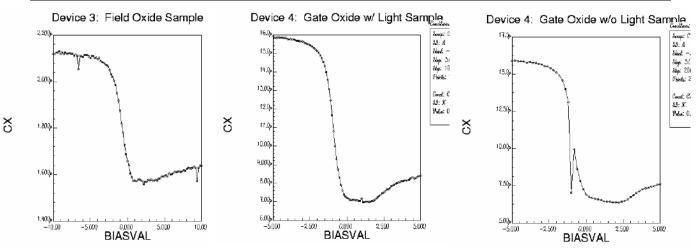


Please make sure to connect a stage connector to "SMU1."

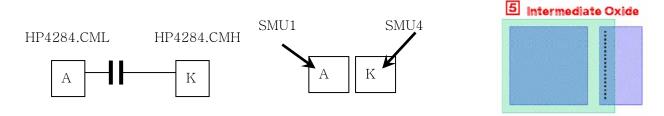
Zero calibration: Meas setup - Change to Mega Hz (Use cursor keys and screen keys) - Meas setup - correction (Use screen keys) - Enlight "open" (Use cursor keys) - Measure open (Wait a few minutes until it said completed) - Display

Notice that you need one measurement of Device #3 without light and two measurements of Device #4 with light and without light.

HP4284.CMH	Display1 : C	Oscillation level: 0.02	Device #3	Device #4
	Display2: R	Circuit mode : Par	Sweep : Voltage	Sweep : Voltage
			Start -10	Start -5
			Stop 10	Stop 5
			Step size: 0.2	Step size: 0.2
			Option: integration	Option: integration
			Medium	Medium
HP4284.CML	No need to change			



# **5** - **4284** - CAP mode



Disconnect the stage connection from SMU1 and connect #1 probe to SMU1. When you measure capacitance, you will notice negative values of capacitance. Do two measurements. One measurement is with a probed device and the other without a probed device. So that a real capacitance = C (with) – C (Without). Make sure of tuning off light

HP4284.CMH	Display1 : C	Circuit mode : Par	Device #5
	Display2: R	Oscillation level: 0.02	Sweep : Voltage
			Start -5
			Stop 0
			Step size: 0.2
HP4284.CML	No need to change		

