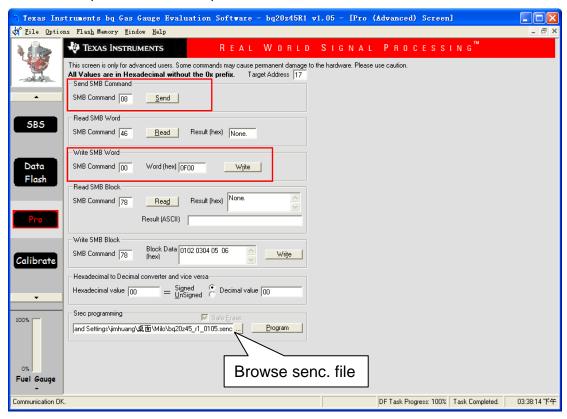
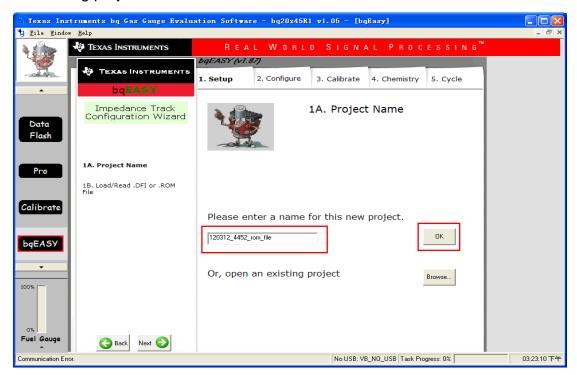
BQ Easy Settings For 4452 Learning Cycle

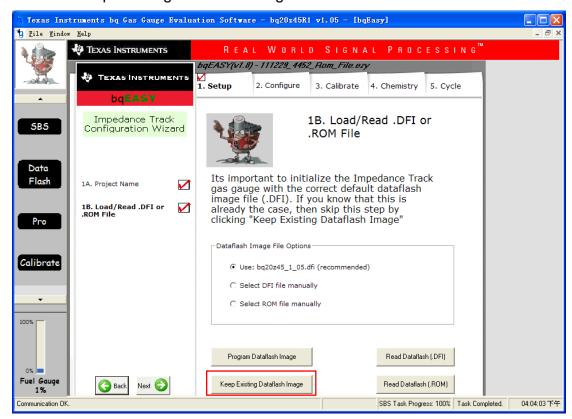
1. Start bq Evaluation Software. Select "Pro" to write "bq20z45_r1_0105.senc" file. About how to program senc. file, please reference "Updating Firmware With The bq20zxx and EVM.pdf".



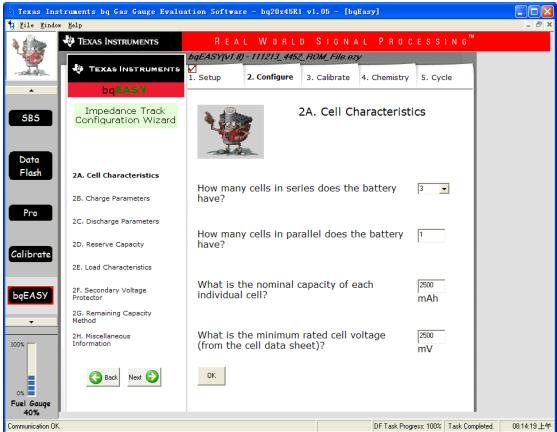
2. Restart EVSW and Select "bqEasy" item. Input a new project name or open an existing project.



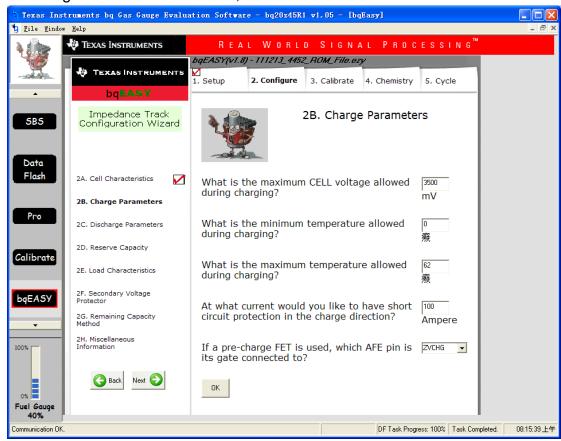
3. Click "Keep Existing Dataflash Image" button.



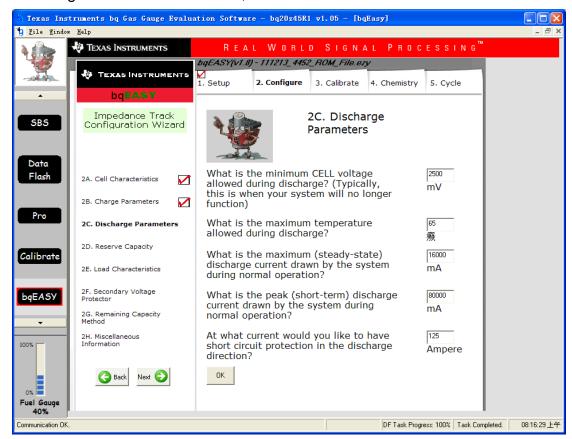
4. Configure 2A as shown below, then OK.



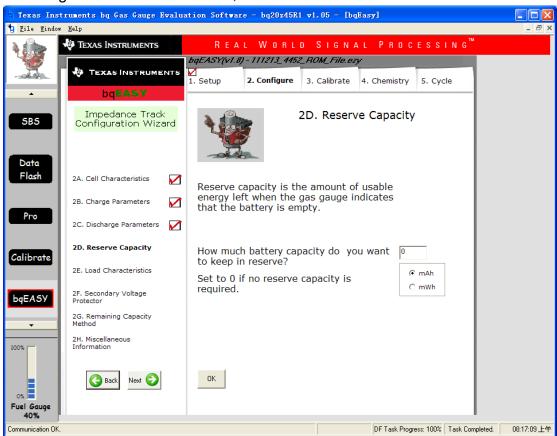
5. Configure 2B as shown below, then OK.



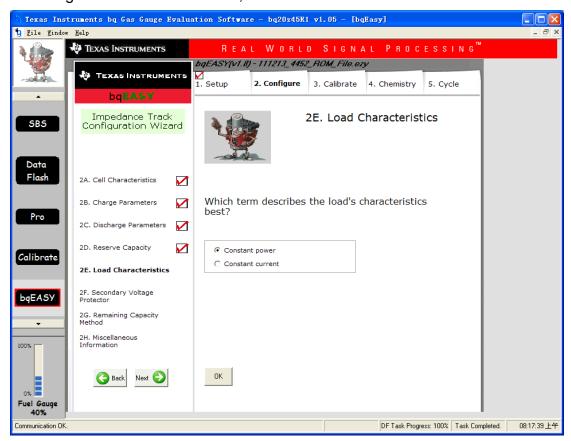
6. Configure 2C as shown below, then OK.



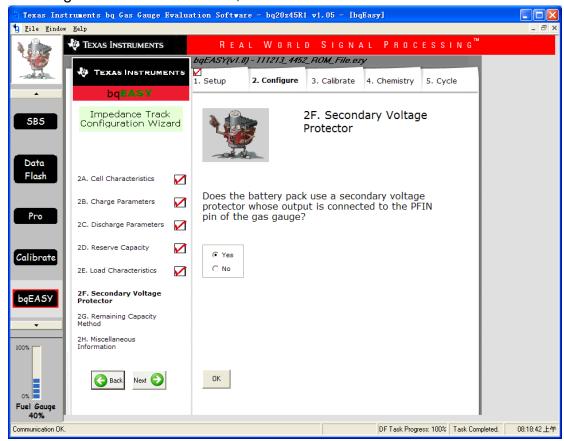
7. Configure 2D as shown below, then OK.



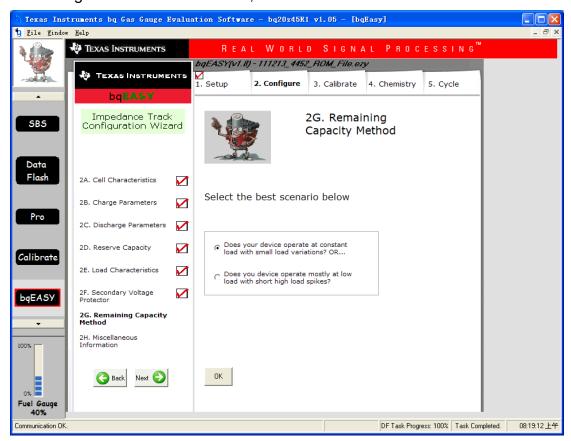
8. Configure 2E as shown below, then OK.



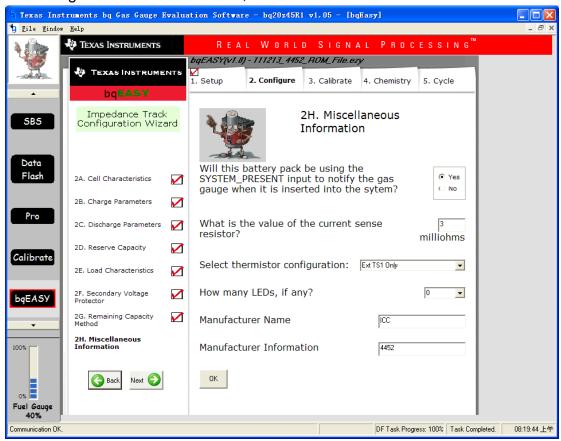
9. Configure 2F as shown below, then OK.



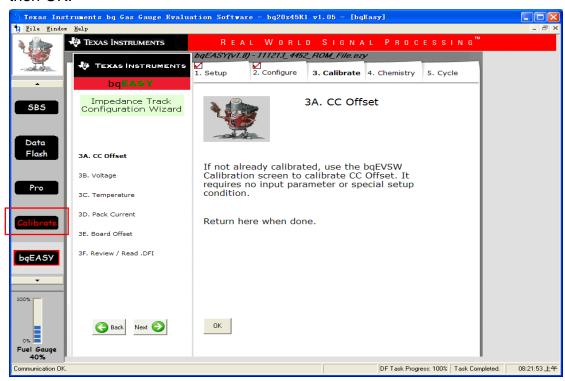
10. Configure 2G as shown below, then OK.



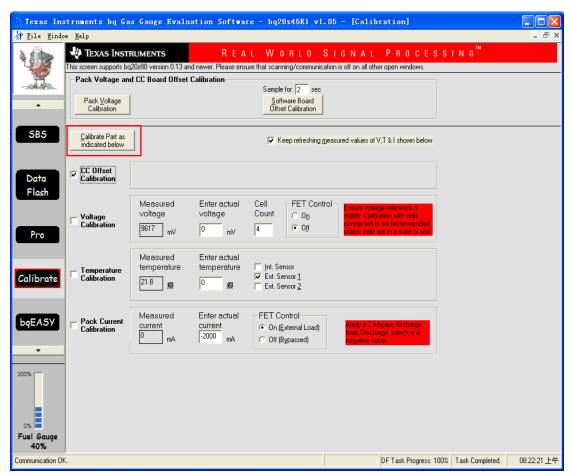
11. Configure 2H as shown below, then OK.



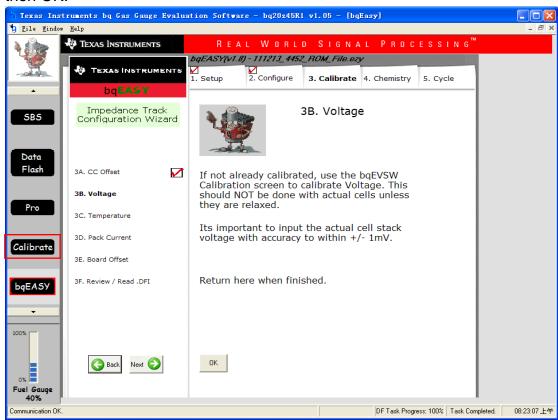
12. 3A Calibrate CC Offset. Select "Calibrate" item .After calibrate, return here then OK.



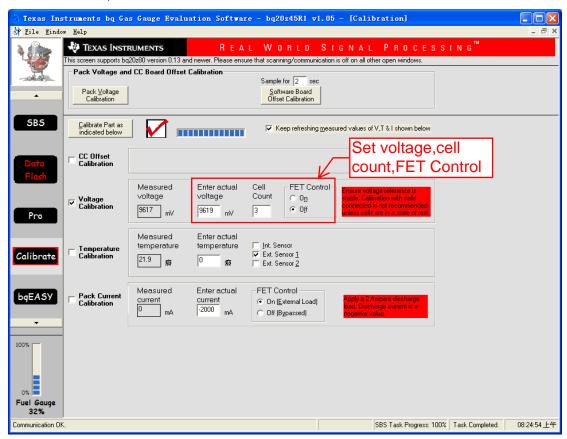
Select "CC Offset Calibration", then click "Calibrate Part as indicated below". After calibrate, close the calibrate window.



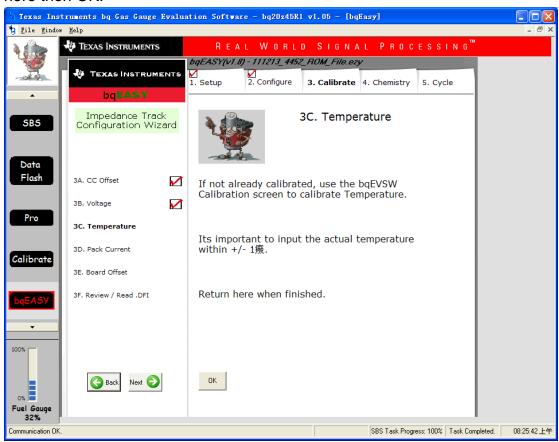
13. 3B Calibrate Voltage. Select "Calibrate" item .After calibrate, return here then OK.



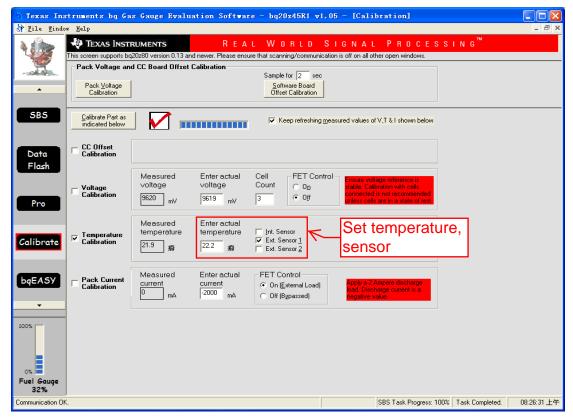
Select "Voltage Calibration", then click "Calibrate Part as indicated below". After calibrate, close the calibrate window.



14. 3C Calibrate Temperature. Select "Calibrate" item .After calibrate, return here then OK.

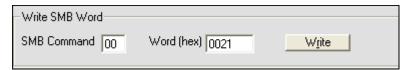


Select "Temperature Calibration", then click "Calibrate Part as indicated below". After calibrate, close the calibrate window.



15. 3D Calibrate Pack Current.

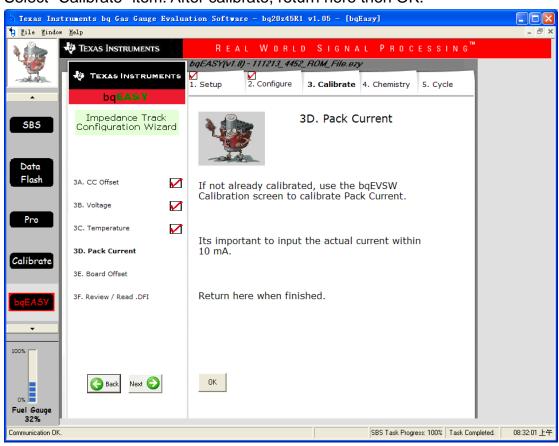
Before calibrate current, write "IT Enable" command. As shown below.



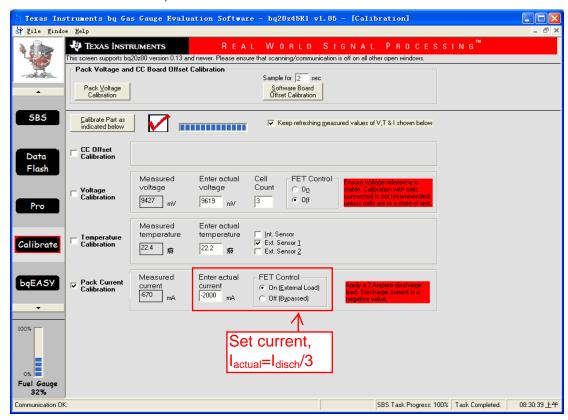
Then set "Operation Cfg B = 2C58" to open MOSFET. As shown below.

Configuration	<u> </u>	Power
Name	Value	Unit
Registers	-	-
Operation Cfg A	0228	-
Operation Cfg B	2 <i>C</i> 58	-

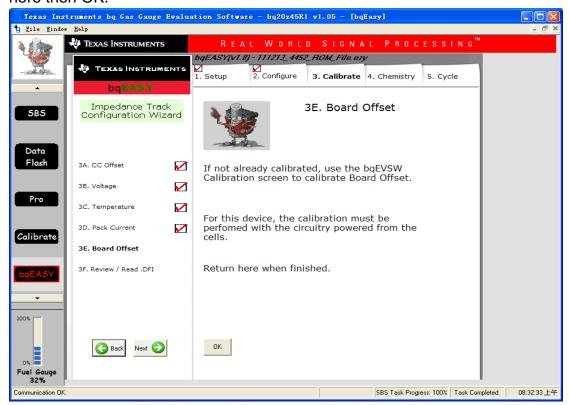
Select "Calibrate" item. After calibrate, return here then OK.



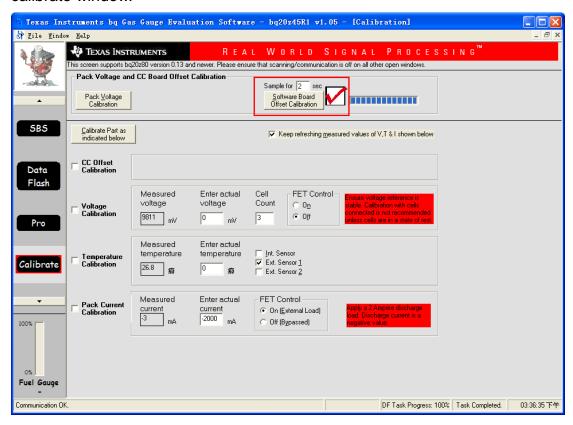
Select "Pack Current Calibration", then click "Calibrate Part as indicated below". After calibrate, close the calibrate window.



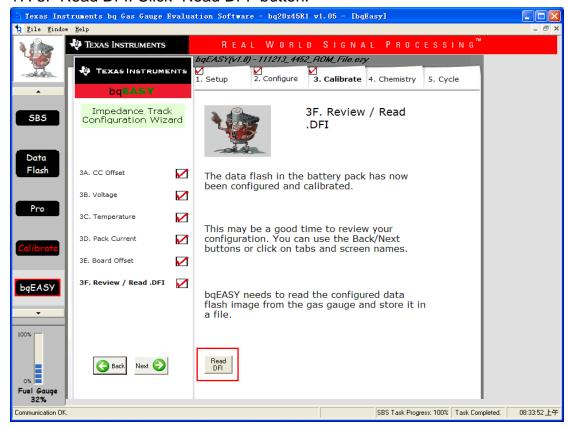
16. 3E Calibrate Board Offset. Select "Calibrate" item .After calibrate, return here then OK.



Click "Software Board Offset Calibration" button. After calibrate, close the calibrate window.



17. 3F Read DFI. Click "Read DFI" button.



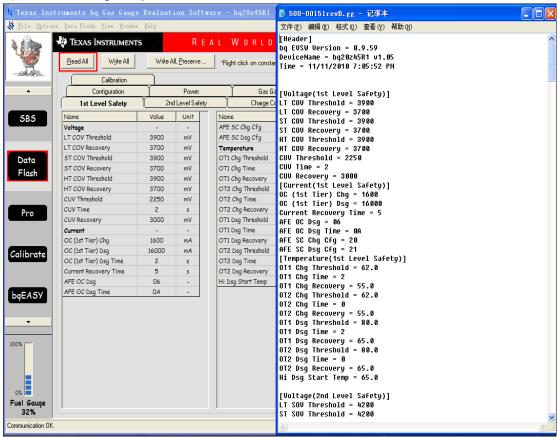
18. 4A Click "Yes, Enable Chemistry Selection" button.



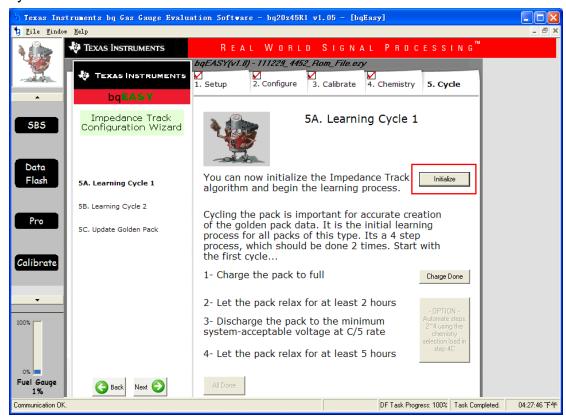
19. 4B Select chemistry as shown below, click "OK-Update Fuel Gauge Data Flash" button.



- 20. Before starting the learning cycle, please select "Data Flash" item and click "Read All" button.
- 1). Don't set "Update Status" in "Gas Gauging" item.
- 2). "1st Level Safety", "2nd Level Safety", "Charge Control", "SBS Configuration", "Configuration", "Power", "Gas Gauging", should be the same with gg file, except "Operation Cfg B = 2C58", "Cycle Count = 0". Input them manually.
- 3). Don't change "System Data", "Ra Table", "PF Status", "Calibration".



21. Before starting learning cycle, click "Initialize" button, then start learning cycle.



22. After charging the pack to full, click "Charge Done" button.



23. When finish learning cycle 1, click "All Done" button. Then start learning cycle 2.

