Protocol to Use GC Machine for SCFAs Test

Preparation:

1. Check “Methanol” and “Dichloromethane” content in bottles (Fill them if they are in low level.
2. Load Samples
3. Load Standards (The first place is STD and insert a STD for every thirty samples.

Run SCFAs Test:

1. Click the start button to start the Agilent Machine.
2. Open the valve to release the hydrogen gas, air and helium gas.
3. On the machine screen, click “FID”, then, click “Heater to increase the temperature.
4. Then click “Flame” under “Front Detector-FID”, finally click “On’ when the “Ignite” shown on.
5. Open “8890GC (online)” app on the computer.
6. Click “Sequence”, followed by “Sequence Table”. Edit the metadata file. (Remember to put a “Shutdown” method with an empty bottle in the end.
7. Click “File”, “Save as”, “Sequence Template” to save the run sequence.
8. Change the method, use “SCFA\_FrontOnly\_053024.M” as the default.
9. Click “Run Control”, followed by “Run Sequence” to start running.

Output Sequencing Run

1. Start the “8890GC (offline)” app on the computer.
2. Click “Data Analysis” to automatically choose the method “Excel”
3. Click “Review”, select all samples, and export all samples using the “Excel” method.