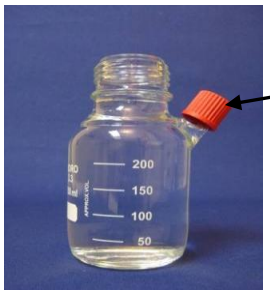
Gas Sampling for Further Testing
RF

This Service Procedure walks the user through the steps required to sample head space gasses for analysis on a gas chromatograph or other instrument.

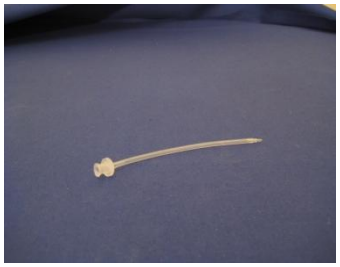
It is recommended that collection of gas for further analysis be done through the septum port on the glass bottle shown below. Please note that if gas is removed through the septum port, the computer may record it as a slight loss in pressure. During testing, a 5 microliter sample from a 250ml bottle did not show a drop in pressure, but multiple samples may yield different results. Liquid can also be sampled through this port by rotating the bottle and allowing the liquid into the port area. Glass bottles with septum ports [part # 7120 (100ml), 7130 (250ml), 7131 (500ml) and 7132 (1000ml)] can be ordered separately.



It is also possible to collect a gas sample through the Vent Valve using the adapter provided with the Vent Valve Cleaning Kit (RF22). Additional Vent Valve Adapters (RF22.5) can be purchased separately.

Vent Valve Cleaning Kit (RF22)

Vent Valve Cleaning Kit attached to the Module



Vent Valve Adapter (RF22.5)

To collect gas from the Vent Valve, execute the following procedure:

1) Gently push the barbed end of the adapter into the Vent Valve tube on the side of the housing. The adapter comes standard with a female Luer thread for connection to a gas tight syringe.
2) Thread the syringe onto the adapter.
3) When the syringe is in place, pull the plunger out to an appropriate distance and hold it in place to create a vacuum in the syringe.
4) On your GPM main screen, change the “Live Interval” to 1 second.
5) After 30 seconds, set the “Pressure Release” field in the module # column to a pressure slightly lower than the bottle’s current pressure level. Click “enter” or “Tab” to enter the new pressure value. This will cause a valve opening and gas will

flow into the syringe. Be careful not to allow the syringe plunger to be pushed completely out of the syringe.

6) Once the pressure in the module has dropped below the amount in the "Pressure Release" field, you may remove the Vent Valve Adapter by holding the vent valve tube against the side of the housing with your finger (to avoid stretching it), and pull the adapter out.
7) Once you have removed your gas sample, set the "Pressure Release" value back to its original setting.
8) Gas within the syringe can now be used for gas chromatography or other analysis.