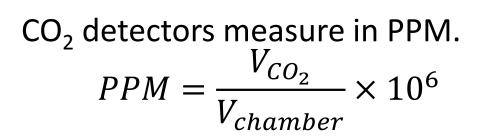
## CO<sup>2</sup> Leak Chamber Calibration update

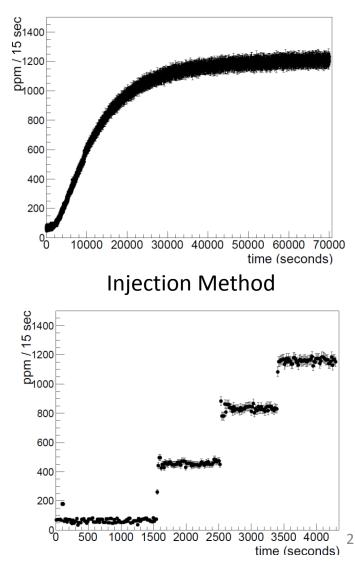
Dan Ambrose University of Minnesota 5/4/2015

## Volume Measurement methods

Tygon Tube Leaking

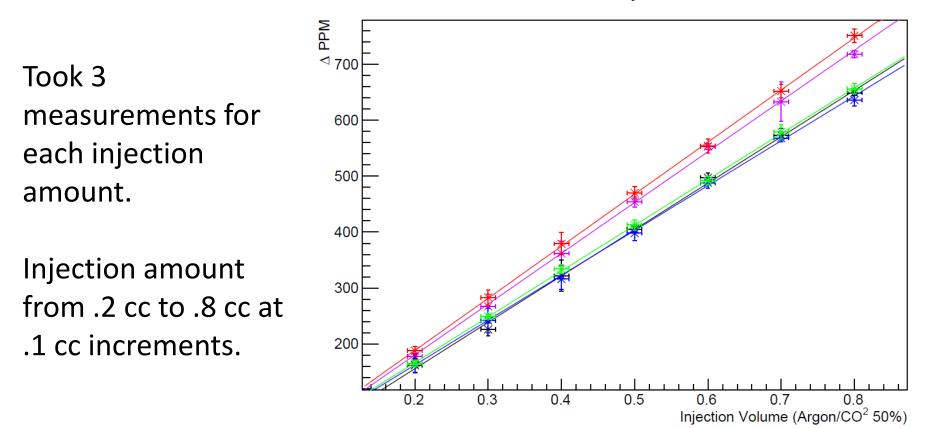


- 1. Geometrical Estimate
- 2. Tygon Tube leaking
- 3. Injection Method



## Injection Method

Leak Chamber Injection Calibration



Sharper slope means less volume in chamber.

## Results

Chamber	Geometric	Tygon Tube	Injection
0	572 ± 35	569 ± 28	595 ± 18
1	572 ± 35	582 ± 15	617 ± 24
2	544 ± 35	555 ± 19	604 ± 16
3	549 ± 35	494 ± 5	530 ± 16
4	554 ± 35	481 ± 20	544 ± 15

Chamber 2 reads high compared to geometric estimate. Tygon Tube method is consistently lower than the Injection method.