

CALIBRATION OF BIOMET-UBC73

Relative vs. NOAA-1 /NOAA-2 on 24.2.2015 15:14

SUMMARY

```
-----
CO2_ppm =      412.714 (+-  0.112, n= 23)
d13C     =      -46.253 (+-  0.116, n= 23)
d18O     =      -40.495 (+-  0.287, n= 23)
-----
```

DETAILS OF CALIBRATION

```
-----
Raw Measured 12CO2 BIOMET-UBC73 =      425.5374 (+- 0.12959) ppm
Raw Measured 13CO2 BIOMET-UBC73 =       4.5706 (+- 0.00117) ppm
Raw Measured 180   BIOMET-UBC73 =       1.6718 (+- 0.00114) ppm
Raw Measured T_CO2 BIOMET-UBC73 =     432.1289 (+- 0.13041) ppm
Raw Measured 12CO2 NOAA-1  =     410.5127 (+- 0.06660) ppm
Raw Measured 13CO2 NOAA-1  =       4.5802 (+- 0.00047) ppm
Raw Measured 180   NOAA-1  =       1.6732 (+- 0.00101) ppm
Raw Measured T_CO2 NOAA-1  =     417.1030 (+- 0.06580) ppm
Raw Measured 12CO2 NOAA-2  =     481.3972 (+- 0.06151) ppm
Raw Measured 13CO2 NOAA-2  =       5.3506 (+- 0.00040) ppm
Raw Measured 180   NOAA-2  =       1.9543 (+- 0.00105) ppm
Raw Measured T_CO2 NOAA-2  =     489.0972 (+- 0.06066) ppm
Ext Standard T_CO2 NOAA-1  =     398.231 (+- 398.231) ppm
Ext Standard d13C NOAA-1  =      -8.899 (+-  0.003) per mil
Ext Standard d18O NOAA-1  =      -4.227 (+-  0.003) per mil
Ext Standard T_CO2 NOAA-2  =     467.628 (+- 467.628) ppm
Ext Standard d13C NOAA-2  =     -12.312 (+-  0.006) per mil
Ext Standard d18O NOAA-2  =      -7.636 (+-  0.006) per mil
No of values filtered      =          1
RMSE for 12CO2 linear fit =     0.060433 ppm
RMSE for 13CO2 linear fit =     0.000410 ppm
RMSE for 180   linear fit =     0.000993 ppm
Slope for 12CO2 linear fit =     0.9639 ppm / ppm
Slope for 13CO2 linear fit =     0.9599 ppm / ppm
Slope for 180   linear fit =     0.9874 ppm / ppm
Offs. for 12CO2 linear fit =    -3.745689 ppm
Offs. for 13CO2 linear fit =    -0.053582 ppm
Offs. for 180   linear fit =    -0.022021 ppm
-----
```

Output created on Tue Feb 24 13:10:03 2015



