**Feb 29 2024 Absorption Lab Data**

*S1 = bottom of absorption column*

*S2 = middle of absorption column*

*S3 = gas outlet from absorption column*

Data with Heater Off:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Sample 1** | **Sample 2** | **Sample 3** | **Sample 4** | **Sample 5** | **Sample 6** |
| *S1 CO2 Concentration* | 28.0% | 28.3% | 28.9% | 28.0% | 27.7% | 27.6% |
| *S2 CO2 Concentration* | 27.5% | 28.1% | 28.2% | 27.8% | 27.6% | 27.5% |
| *S3 CO2 Concentration* | 26.9% | 28.2% | 27.7% | 27.3% | 27.3% | 27.0% |
| *Gas Temp (*℃*)* | 17 | 16 | 16 | 15 | 15 | 16 |
| *Absorber Water Temp (*℃*)* | 15 | 14 | 14 | 14 | 14 | 14 |
| *Regenerator Water Temp (*℃*)* | 19 | 18 | 18 | 18 | 18 | 18 |

Data with Heater On: [temperature set point at 25℃]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Sample 7** | **Sample 8** | **Sample 9** | **Sample 10** |
| *S1 CO2 Concentration* | 28.0% | 27.6% | 27.5% | 28.0% |
| *S2 CO2 Concentration* | 27.8% | 27.5% | 27.5% | 27.7% |
| *S3 CO2 Concentration* | 27.2% | 26.8% | 26.8% | 27.2% |
| *Gas Temp (*℃*)* | 16 | 16 | 15 | 15 |
| *Absorber Water Temp (*℃*)* | 14 | 14 | 14 | 14 |
| *Regenerator Water Temp (*℃*)* | 19 | 24 | 24 | 24 |

Notes:

* Samples are measured in this order: S2, S1, S3