

Table 6. ~~Curve Fit Errors~~

SMMO Calibration Curve Errors

Equation: <del>M = A + BT</del> Calibration Mass Grams	1	2	2	2	2	2
	<del>1<sup>st</sup> Order</del>	2 <sup>nd</sup> Order	3 <sup>rd</sup> Order	4 <sup>th</sup> Order	5 <sup>th</sup> Order	
	Calculated Mass Error Gms.	Calc. Mass Error Gms.	Error %	Calc Mass Error Gms	Error %	Calc. Mass Error Gms.
0	+490	-0565	-0291	+0796	-0156	
50.00	.043 $8.6 \times 10^{-2}$	.0085	.0169	-.0189	-.02374	.00992
100.00	-.354	.08094	.08094	.03464	.03464	.03887
150.00	-.64	.06131	.04087	.02055	.01370	.02411
250.00	-.833	-.07136	-.02854	-.05959	-.02384	-.06077
300.00	-.758	-.09595	-.03198	-.05831	-.01944	-.06161
400.00	-.201	.07829	.01957	.12531	.03133	.12151
500.00	+.57	.00502	.00100	-.04756	-.00951	.04412
O <sub>2</sub>	+.306					

Coefficients

Curve Order	A <sub>0</sub>	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>
2°	-680.622	55.3633	150.790			
3°	-619.382	-25.8604	186.502	-5.02546		
4°	-629.091	-11.0189	178.282	-3.25681	-.163544	
5°	-371.619	-291.605	160.361	125.669	-55.8359	7.33240

~~M = A + BT~~

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Eqn 1. -  $M = -618.477 + 162.477 T^2$  Cal From Day 208

~~Eqn 2. -~~ Eqn. 2. -

$M = A_0 + A_1 T + A_2 T^2 + A_3 T^3 + A_4 T^4 + A_5 T^5$