

Methyl Iodide Retention Efficiency Vs. Flow Rate
 ASTM D 3803 Method A
 TE1, Short, C-Series;M;B Geometry, 8x16

Quadratic Equation: $Y = 0.3845x^2 - 7.1557x + 106.04$

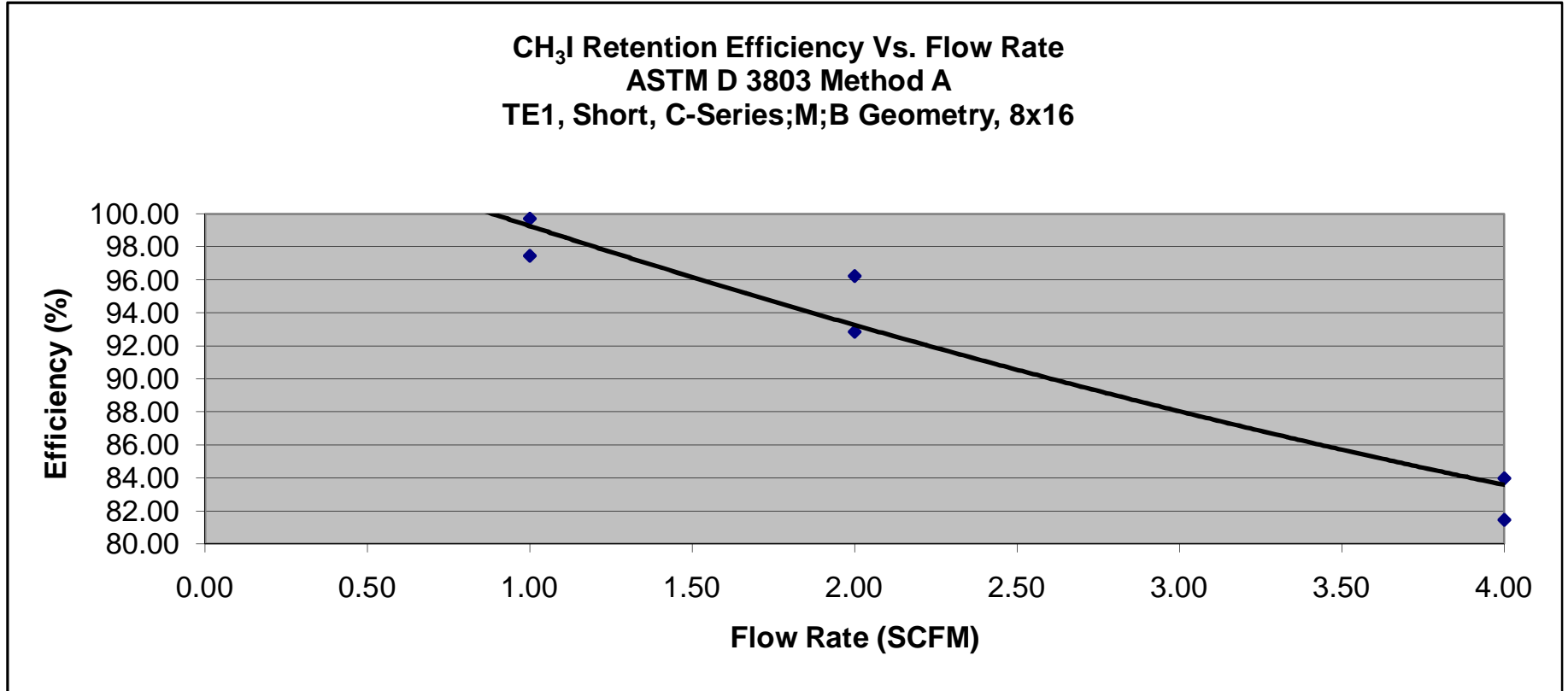
Standard Deviation: 1.699

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	1.00	99.72	99.27	0.45
2	1.00	97.46	99.27	-1.81
3	2.00	96.24	93.27	2.97
4	2.00	92.85	93.27	-0.42
5	4.00	83.97	83.57	0.40
6	4.00	81.47	83.57	-2.10
7	6.00	77.46	76.95	0.51

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	104.28
2	0.50	14.16	102.56
3	0.75	21.24	100.89
4	1.00	28.32	99.27
5	1.25	35.40	97.70
6	1.50	42.48	96.17
7	1.75	49.55	94.70
8	2.00	56.63	93.27
9	2.25	63.71	91.89
10	2.50	70.79	90.55
11	2.75	77.87	89.27
12	3.00	84.95	88.03
13	3.25	92.03	86.85
14	3.50	99.11	85.71
15	3.75	106.19	84.61
16	4.00	113.27	83.57



Graph 1

Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1998
TE1, Intermediate, C-Series;M;B Geometry, 8x16, #81610054, Oct. 2016

Quadratic Equation: $y = 0.942x^2 - 15.412x + 105.41$

Standard Deviation: 6.518068555

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.50	98.27	97.94	0.33
2	1.00	93.73	90.94	2.79
3	1.00	91.35	90.94	0.41
4	1.50	85.63	84.41	1.22
5	1.50	70.23	84.41	-14.18
6	1.50	73.98	84.41	-10.43
7	1.50	91.18	84.41	6.77
8	1.50	93.54	84.41	9.13
9	1.75	77.83	81.32	-3.49
10	1.75	81.89	81.32	0.56
11	2.00	80.04	78.35	1.69
12	2.00	75.20	78.35	-3.15
13	2.00	86.36	78.35	8.01
14	2.25	72.01	75.50	-3.49
15	2.50	70.41	72.77	-2.36
16	2.50	66.12	72.77	-6.65
17	2.50	82.20	72.77	9.43
18	2.50	90.01	72.77	17.24
19	2.50	68.71	72.77	-4.05
20	2.75	65.99	70.15	-4.16
21	2.75	64.80	70.15	-5.35
22	3.00	70.38	67.65	2.73
23	3.00	63.32	67.65	-4.33
24	3.00	68.04	67.65	0.39
25	3.50	61.59	63.01	-1.42
26	4.00	53.75	58.83	-5.08
27	4.00	68.06	58.83	9.23
28	4.25	55.91	56.92	-1.01
29	5.00	51.15	51.90	-0.75

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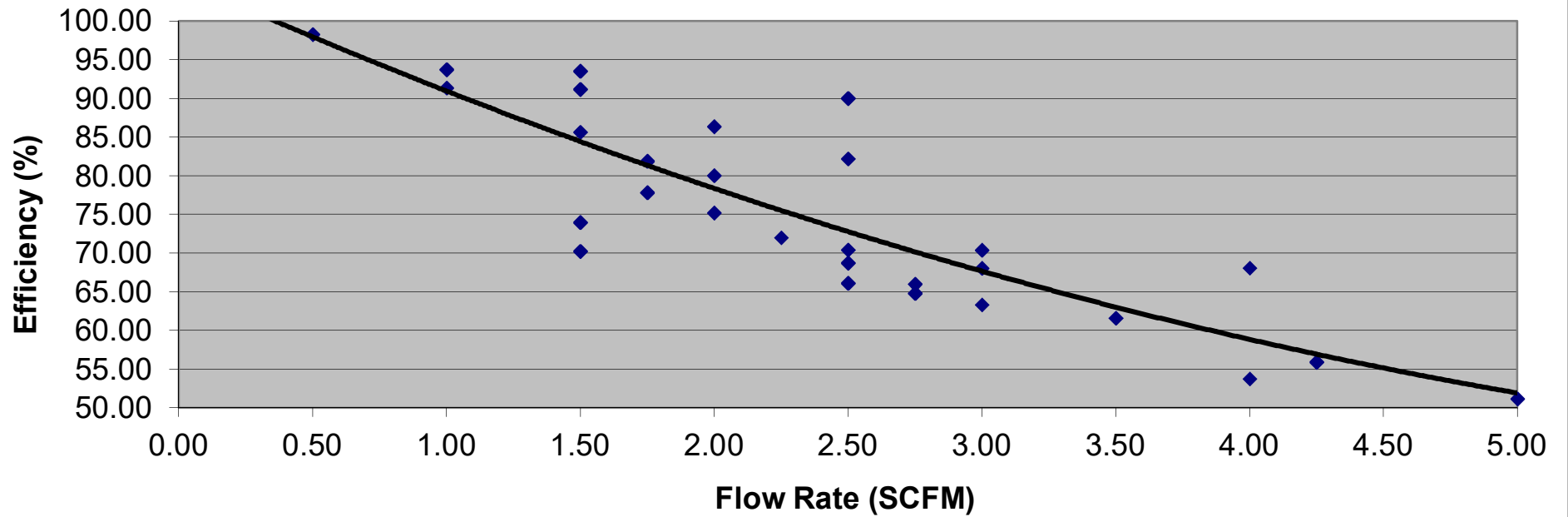
Quadratic Equation: $y = 0.942x^2 - 15.412x + 105.41$

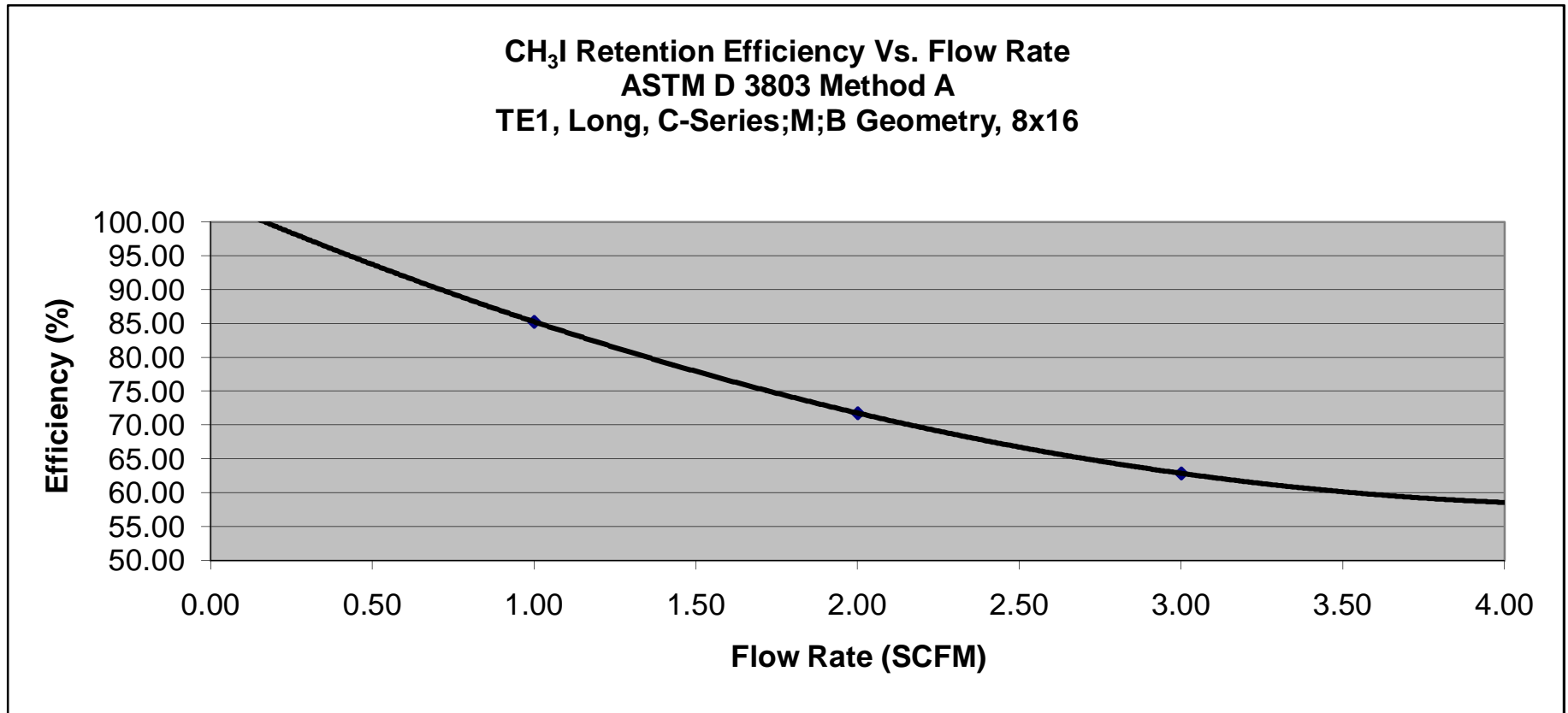
Standard Deviation: 6.518068555

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	101.62
2	0.50	14.16	97.94
3	0.75	21.24	94.38
4	1.00	28.32	90.94
5	1.25	35.40	87.62
6	1.50	42.48	84.41
7	1.75	49.55	81.32
8	2.00	56.63	78.35
9	2.25	63.71	75.50
10	2.50	70.79	72.77
11	2.75	77.87	70.15
12	3.00	84.95	67.65
13	3.25	92.03	65.27
14	3.50	99.11	63.01
15	3.75	106.19	60.86
16	4.00	113.27	58.83
17	4.25	120.35	56.92
18	4.50	127.43	55.13
19	4.75	134.51	53.46
20	5.00	141.58	51.90
21	5.25	148.66	50.46
22	5.50	155.74	49.14
23	5.75	162.82	47.94

CH₃I Retention Efficiency Vs. Flow Rate
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Graph 13