

Methyl Iodide Retention Efficiency Vs. Flow Rate  
 ASTM D 3803-1989  
 TE2, Short, C-Series;M;B Geometry, 30x50 Mesh, 8-20-1992

Quadratic Equation:  $Y = -0.4758x^2 + 0.8722x + 99.689$

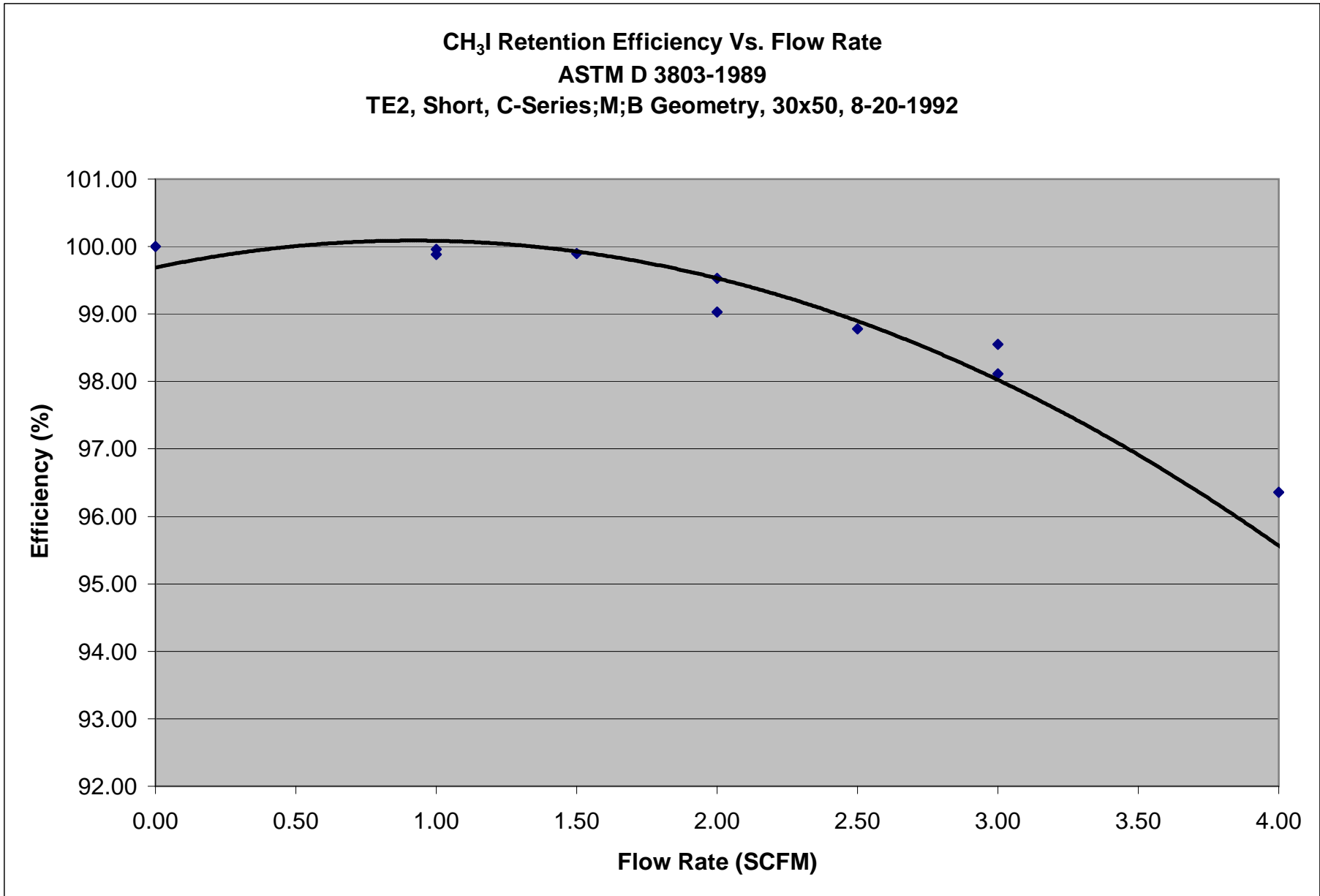
Standard Deviation: 0.43551

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.00	100.00	99.69	0.31
2	1.00	99.88	100.09	-0.21
3	1.00	99.96	100.09	-0.13
4	1.50	99.90	99.93	-0.03
5	2.00	99.53	99.53	0.00
6	2.00	99.03	99.53	-0.50
7	2.50	98.78	98.90	-0.12
8	3.00	98.55	98.02	0.53
9	3.00	98.11	98.02	0.09
10	4.00	96.36	95.57	0.80
11	4.50	93.23	93.98	-0.75

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	99.88
2	0.50	14.16	100.01
3	0.75	21.24	100.08
4	1.00	28.32	100.09
5	1.25	35.40	100.04
6	1.50	42.48	99.93
7	1.75	49.55	99.76
8	2.00	56.63	99.53
9	2.25	63.71	99.24
10	2.50	70.79	98.90
11	2.75	77.87	98.49
12	3.00	84.95	98.02
13	3.25	92.03	97.50
14	3.50	99.11	96.91
15	3.75	106.19	96.27
16	4.00	113.27	95.57
17	4.25	120.35	94.80
18	4.50	127.43	93.98
19	4.75	134.51	93.10
20	5.00	141.58	92.16



**Methyl Iodide Retention Efficiency Vs. Flow Rate**  
**ASTM D 3803-1989**  
**TE2, INT, C-Series;M;B Geometry, 30x50, #45-14, May, 2015**

Quadratic Function:  $Y = -0.324x^2 + 0.070x + 100.0$

Standard Deviation      1.372854087

Table of Residuals

No.	X Obs (CFM)	Y Obs (%)	Y Calc (%)	Difference
1	0.50	100.00	99.954	0.046
2	0.50	99.99	99.954	0.036
3	0.75	100.00	99.870	0.130
4	1.00	99.95	99.746	0.204
5	1.00	98.55	99.746	-1.196
6	1.00	99.99	99.746	0.244
7	1.00	99.98	99.746	0.234
8	1.00	98.77	99.746	-0.976
9	1.00	99.99	99.746	0.244
10	1.00	99.99	99.746	0.244
11	1.06	98.60	99.710	-1.110
12	1.06	99.80	99.710	0.090
13	1.25	99.79	99.581	0.209
14	1.50	99.97	99.376	0.594
15	1.50	99.80	99.376	0.424
16	1.75	99.39	99.130	0.260
17	1.75	98.79	99.130	-0.340
18	2.00	97.85	98.844	-0.994
19	2.00	98.93	98.844	0.086
20	2.00	98.97	98.844	0.126
21	2.00	99.50	98.844	0.656
22	2.00	99.81	98.844	0.966
23	2.00	98.72	98.844	-0.124
24	2.00	97.90	98.844	-0.944
25	2.25	99.62	98.517	1.103
26	2.25	99.37	98.517	0.853
27	2.50	98.71	98.150	0.560
28	2.50	98.43	98.150	0.280
29	2.50	99.65	98.150	1.500
30	2.75	98.20	97.742	0.458
31	2.75	99.33	97.742	1.588
32	3.00	97.76	97.294	0.466
33	3.00	97.27	97.294	-0.024
34	3.00	96.25	97.294	-1.044
35	3.00	98.48	97.294	1.186
36	3.18	96.64	96.946	-0.306
37	3.25	93.79	96.805	-3.015
38	3.25	98.03	96.805	1.225
39	3.50	98.25	96.276	1.974

40	3.50	97.48	96.276	1.204
41	3.75	96.27	95.706	0.564
42	4.00	96.32	95.096	1.224
43	4.00	93.68	95.096	-1.416
44	4.00	96.98	95.096	1.884
45	4.25	92.78	94.445	-1.665
46	4.25	93.84	94.445	-0.605
47	4.50	92.86	93.754	-0.894
48	4.50	88.94	93.754	-4.814
49	4.75	93.04	93.022	0.018
50	5.00	95.72	92.250	3.470
51	6.00	85.62	88.756	-3.136
52	7.00	87.08	84.614	2.466

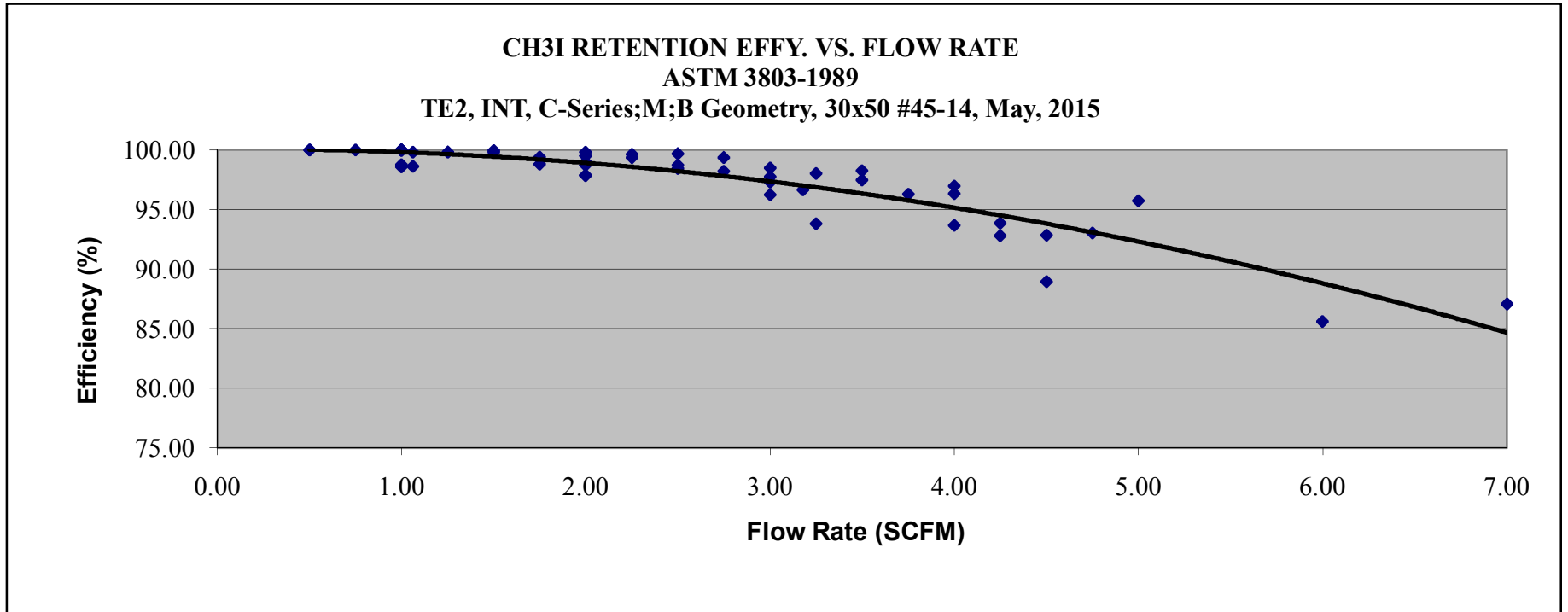
**Methyl Iodide Retention Efficiency Vs. Flow Rate**  
**ASTM D 3803-1989**  
**TE2, INT, C-Series;M;B Geometry, 30x50, #45-14, May, 2015**

Quadratic Function:  $Y = -0.324x^2 + 0.070x + 100.0$

Standard Deviation        1.372854087

**Evaluation of Y's**

No.	X Given (CFM)	X Given (LPM)	Y Calculated % Retention
1	0.50	14.15	100.010
2	0.75	21.23	99.907
3	1.00	28.30	99.766
4	1.25	35.38	99.586
5	1.50	42.45	99.368
6	1.75	49.53	99.111
7	2.00	56.60	98.816
8	2.25	63.68	98.482
9	2.50	70.75	98.110
10	2.75	77.83	97.699
11	3.00	84.90	97.250
12	3.25	91.98	96.762
13	3.50	99.05	96.236
14	3.75	106.13	95.671
15	4.00	113.20	95.068
16	4.25	120.28	94.426
17	4.50	127.35	93.746
18	4.75	134.43	93.027
19	5.00	141.50	92.270
20	5.25	148.58	91.474
21	5.50	155.65	90.640
22	5.75	162.73	89.767
23	6.00	169.80	88.856
24	6.25	176.88	87.906
25	6.50	183.95	86.918
26	6.75	191.03	85.891
27	7.00	198.10	84.826
28	7.25	205.18	83.722
29	7.50	212.25	82.580
30	7.75	219.33	81.399
31	8.00	226.40	80.180
32	8.25	233.48	78.922
33	8.50	240.55	77.626
34	8.75	247.63	76.291
35	9.00	254.70	74.918
36	9.25	261.78	73.506
37	9.50	268.85	72.056
38	9.75	275.93	70.567



**Methyl Iodide Retention Efficiency Vs. Flow Rate**  
**ASTM D 3803-1989**  
**TE2, Long, C-Series;M;B Geometry, 30x50, 5/22/2007**

Quadratic Equation:  $Y = -0.1911x^2 - 0.0884x + 99.892$

Standard Deviation: 1.00734

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.00	100.00	99.89	0.11
2	1.06	98.76	99.58	-0.82
3	2.00	99.62	98.95	0.67
4	2.12	99.19	98.85	0.34
5	2.12	99.22	98.85	0.37
6	3.00	98.49	97.91	0.58
7	3.18	96.50	97.68	-1.18
8	4.00	96.17	96.48	-0.31
9	5.30	95.89	94.06	1.83
10	5.30	92.46	94.06	-1.60

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	99.86
2	0.50	14.16	99.80
3	0.75	21.24	99.72
4	1.00	28.32	99.61
5	1.25	35.40	99.48
6	1.50	42.48	99.33
7	1.75	49.55	99.15
8	2.00	56.63	98.95
9	2.25	63.71	98.73
10	2.50	70.79	98.48
11	2.75	77.87	98.20
12	3.00	84.95	97.91
13	3.25	92.03	97.59
14	3.50	99.11	97.24
15	3.75	106.19	96.87
16	4.00	113.27	96.48
17	4.25	120.35	96.06
18	4.50	127.43	95.62
19	4.75	134.51	95.16
20	5.00	141.58	94.67

