

Methyl Iodide Retention Efficiency Vs. Flow Rate
 ASTM D 3803 Method A
 TE3, Short, C-Series;M;B Geometry, 20x40, 2-15-1988

Quadratic Equation: $Y = -0.1253x^2 - 3.4068x + 101.52$

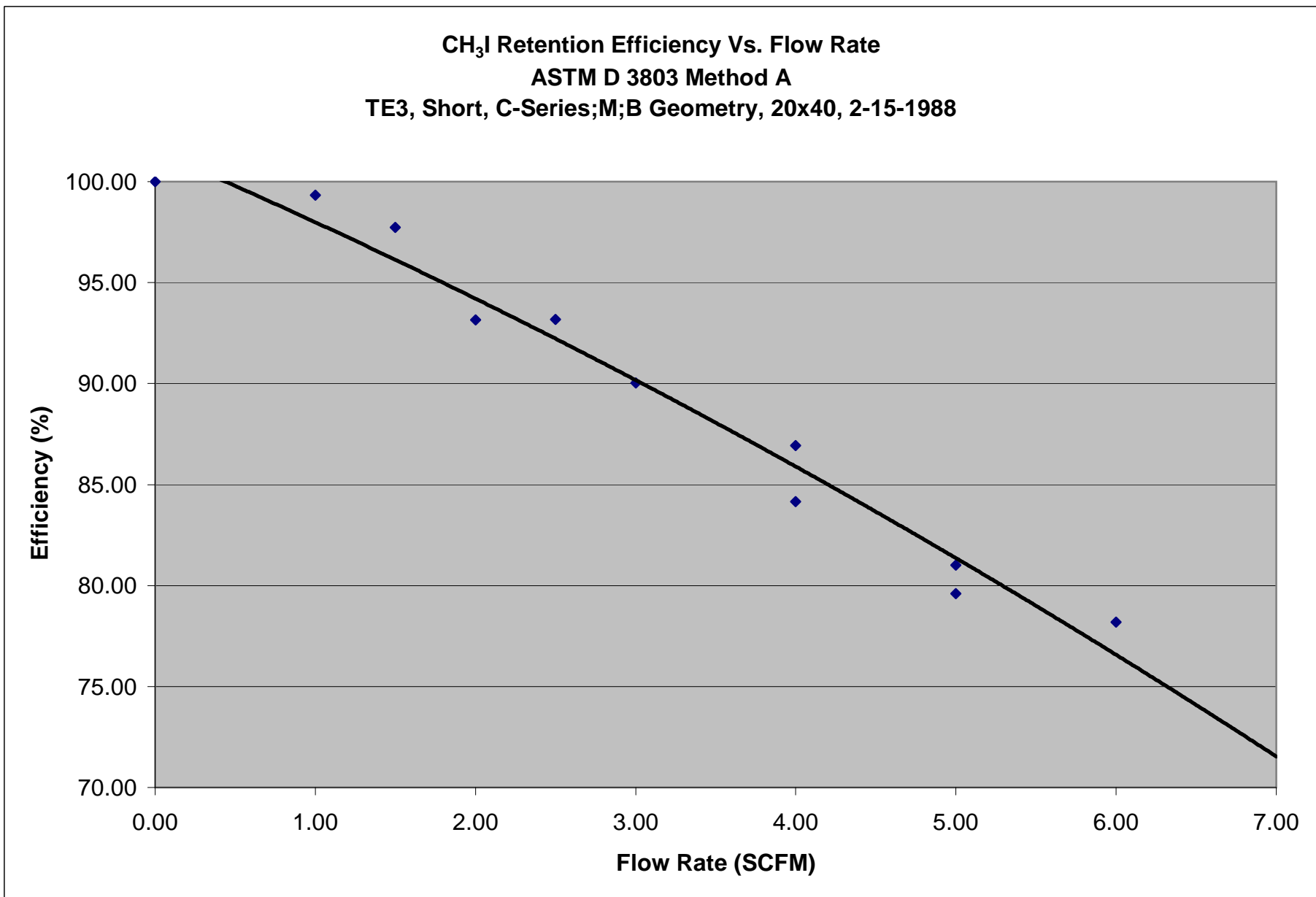
Standard Deviation: 1.365405

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.00	100.00	101.52	-1.52
2	1.00	99.34	97.99	1.35
3	1.50	97.74	96.13	1.61
4	2.00	93.15	94.21	-1.06
5	2.50	93.17	92.22	0.95
6	3.00	90.02	90.17	-0.15
7	4.00	86.92	85.89	1.03
8	4.00	84.16	85.89	-1.73
9	5.00	81.02	81.35	-0.33
10	5.00	79.60	81.35	-1.75
11	6.00	78.19	76.57	1.62

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	100.66
2	0.50	14.16	99.79
3	0.75	21.24	98.89
4	1.00	28.32	97.99
5	1.25	35.40	97.07
6	1.50	42.48	96.13
7	1.75	49.55	95.17
8	2.00	56.63	94.21
9	2.25	63.71	93.22
10	2.50	70.79	92.22
11	2.75	77.87	91.20
12	3.00	84.95	90.17
13	3.25	92.03	89.12
14	3.50	99.11	88.06
15	3.75	106.19	86.98
16	4.00	113.27	85.89
17	4.25	120.35	84.78
18	4.50	127.43	83.65
19	4.75	134.51	82.51
20	5.00	141.58	81.35



Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
TE3, INT, C-Series;M;B Geometry, 20x40, # 87060165, October, 2017

Quadratic Equation: $Y = 0.0427x^2 - 4.3839x + 104.73$

Standard Deviation: 2.631583534

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.50	99.99	102.55	-2.56
2	0.75	100.00	101.47	-1.47
3	0.75	100.00	101.47	-1.47
4	0.75	99.98	101.47	-1.49
5	1.00	99.62	100.39	-0.77
6	1.00	96.70	100.39	-3.69
7	1.00	99.56	100.39	-0.83
8	1.00	97.64	100.39	-2.75
9	1.00	99.99	100.39	-0.40
10	1.06	99.26	100.13	-0.87
11	1.25	99.91	99.32	0.59
12	1.25	99.27	99.32	-0.05
13	1.50	99.77	98.25	1.52
14	1.50	99.95	98.25	1.70
15	1.75	97.41	97.19	0.22
16	1.75	99.36	97.19	2.17
17	1.75	99.98	97.19	2.79
18	2.00	95.20	96.13	-0.93
19	2.00	91.45	96.13	-4.68
20	2.00	95.44	96.13	-0.69
21	2.00	96.68	96.13	0.55
22	2.00	99.45	96.13	3.32
23	2.00	96.36	96.13	0.23
24	2.15	97.22	95.50	1.72
25	2.25	98.68	95.08	3.60
26	2.25	95.29	95.08	0.21
27	2.25	98.01	95.08	2.92
28	2.50	94.90	94.04	0.86
29	2.50	94.61	94.04	0.57
30	2.50	98.84	94.04	4.80
31	2.75	95.51	93.00	2.51
32	2.75	90.65	93.00	-2.35
33	2.75	95.22	93.00	2.22
34	3.00	91.57	91.96	-0.39
35	3.00	87.18	91.96	-4.78
36	3.00	93.11	91.96	1.15
37	3.00	96.08	91.96	4.11
38	3.18	90.79	91.22	-0.43
39	3.25	89.54	90.93	-1.39
40	3.50	87.88	89.91	-2.03
41	3.50	94.24	89.91	4.33

42	3.75	89.44	88.89	0.55
43	3.75	83.94	88.89	-4.95
44	4.00	88.43	87.88	0.55
45	4.00	87.36	87.88	-0.52
46	4.00	84.93	87.88	-2.95
47	4.00	96.24	87.88	8.36
48	4.25	85.93	86.87	-0.94
49	4.25	86.14	86.87	-0.73
50	4.50	89.00	85.87	3.13
51	4.50	88.86	85.87	2.99
52	4.50	89.52	85.87	3.65
53	4.75	85.10	84.87	0.23
54	4.75	82.78	84.87	-2.09
55	5.00	83.40	83.88	-0.48
56	5.00	82.22	83.88	-1.66
57	5.25	84.95	82.89	2.06
58	5.30	80.45	82.69	-2.24
59	5.50	78.69	81.91	-3.22
60	6.00	74.74	79.96	-5.22
61	6.00	78.07	79.96	-1.89
62	6.00	76.72	79.96	-3.24
63	6.00	79.17	79.96	-0.79
64	6.25	76.22	79.00	-2.78
65	8.00	72.67	72.39	0.28
66	10.00	69.03	65.16	3.87

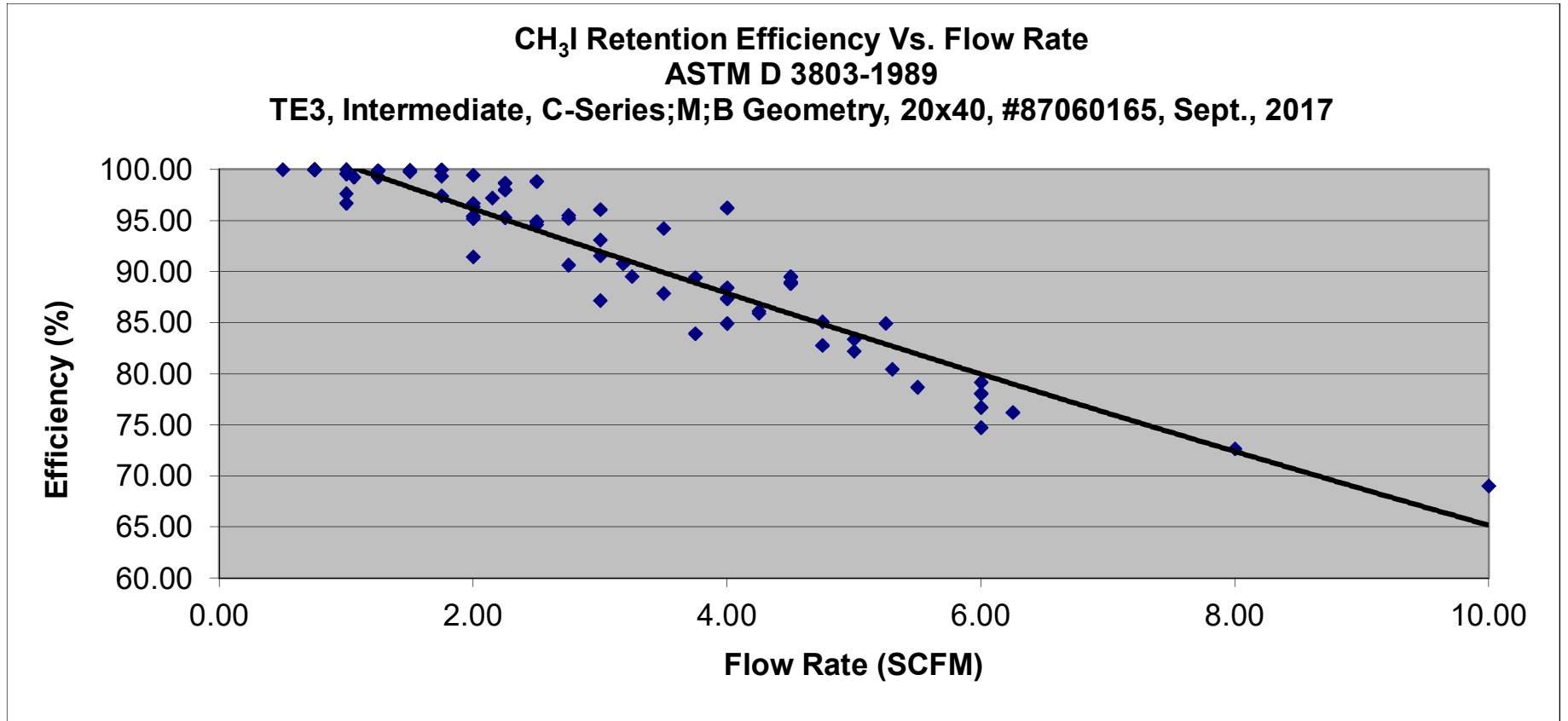
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ASTM D 3803-1989
TE3, INT, C-Series;M;B Geometry, 20x40, # 87060165, October, 2017

Quadratic Equation: $Y = 0.0427x^2 - 4.3839x + 104.73$

Standard Deviation: 2.631583534

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	103.64
2	0.50	14.16	102.55
3	0.75	21.24	101.47
4	1.00	28.32	100.39
5	1.25	35.40	99.32
6	1.50	42.48	98.25
7	1.75	49.55	97.19
8	2.00	56.63	96.13
9	2.25	63.71	95.08
10	2.50	70.79	94.04
11	2.75	77.87	93.00
12	3.00	84.95	91.96
13	3.25	92.03	90.93
14	3.50	99.11	89.91
15	3.75	106.19	88.89
16	4.00	113.27	87.88
17	4.25	120.35	86.87
18	4.50	127.43	85.87
19	4.75	134.51	84.87
20	5.00	141.58	83.88
21	5.25	148.66	82.89
22	5.50	155.74	81.91
23	5.75	162.82	80.93
24	6.00	169.90	79.96
25	6.25	176.98	79.00
26	6.50	184.06	78.04
27	6.75	191.14	77.08
28	7.00	198.22	76.14
29	7.25	205.30	75.19
30	7.50	212.38	74.25
31	7.75	219.46	73.32
32	8.00	226.53	72.39
33	8.25	233.61	71.47
34	8.50	240.69	70.55
35	8.75	247.77	69.64
36	9.00	254.85	68.73



**Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
TE3, Long, C-Series;M;B Geometry, 20x40, 5/22/2007**

Quadratic Equation: $Y = -0.588x^2 - 0.7542x + 100.61$

Standard Deviation: 1.10296

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.00	100.00	100.61	-0.61
2	1.00	99.86	99.27	0.59
3	1.10	99.19	99.07	0.12
4	2.00	97.11	96.75	0.36
5	2.00	97.58	96.75	0.83
6	3.00	93.75	93.06	0.69
7	3.00	92.42	93.06	-0.64
8	3.20	89.52	92.18	-2.66
9	4.00	89.39	88.19	1.20
10	5.30	80.15	80.10	0.05

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	100.38
2	0.50	14.16	100.09
3	0.75	21.24	99.71
4	1.00	28.32	99.27
5	1.25	35.40	98.75
6	1.50	42.48	98.16
7	1.75	49.55	97.49
8	2.00	56.63	96.75
9	2.25	63.71	95.94
10	2.50	70.79	95.05
11	2.75	77.87	94.09
12	3.00	84.95	93.06
13	3.25	92.03	91.95
14	3.50	99.11	90.77
15	3.75	106.19	89.51
16	4.00	113.27	88.19
17	4.25	120.35	86.78
18	4.50	127.43	85.31
19	4.75	134.51	83.76
20	5.00	141.58	82.14

