



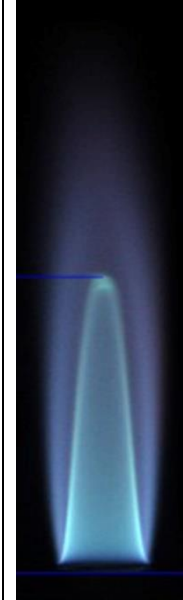

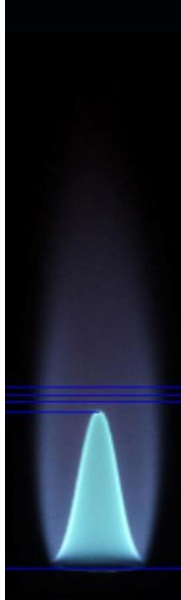


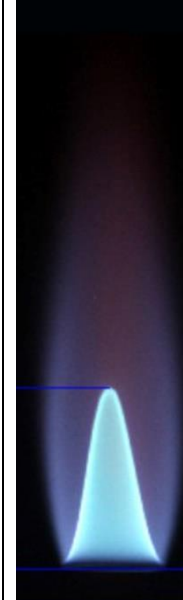

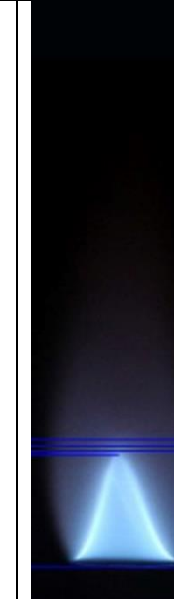















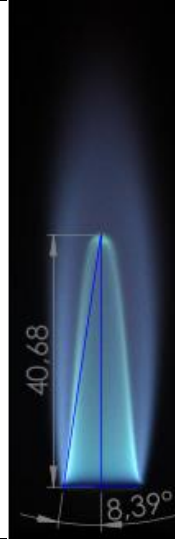
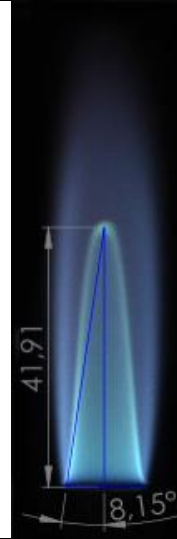
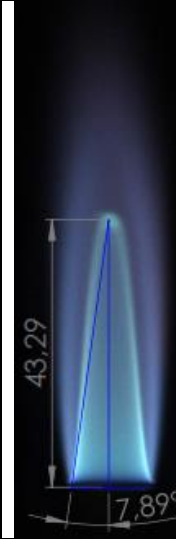

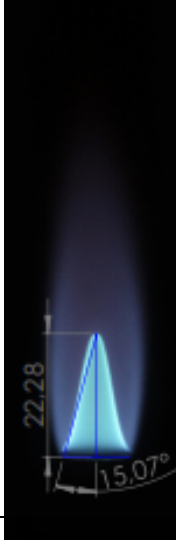
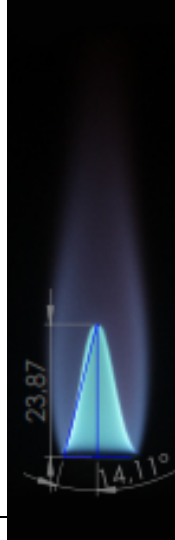
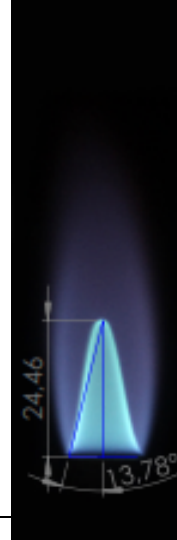








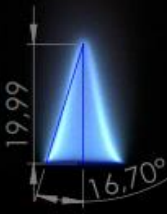
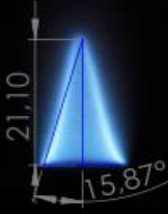

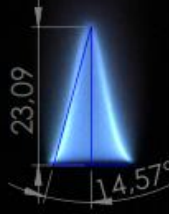
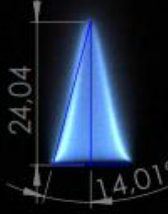




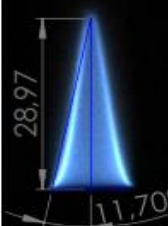
Lampiran 1 Gambar Data Visualisasi Api

	Ketinggian 98 mm	Ketinggian 93 mm	Ketinggian 88 mm	Ketinggian 83 mm	Ketinggian 78 mm
1,40					
1,18					

1,01					
0,88					
0.78					

Lampiran 2 Pengolahan Data Visual Sudut dan Tinggi Api Laminer

	Ketinggian 98 mm	Ketinggian 93 mm	Ketinggian 88 mm	Ketinggian 83 mm	Ketinggian 78 mm
1,40					
1,18					
1,01					

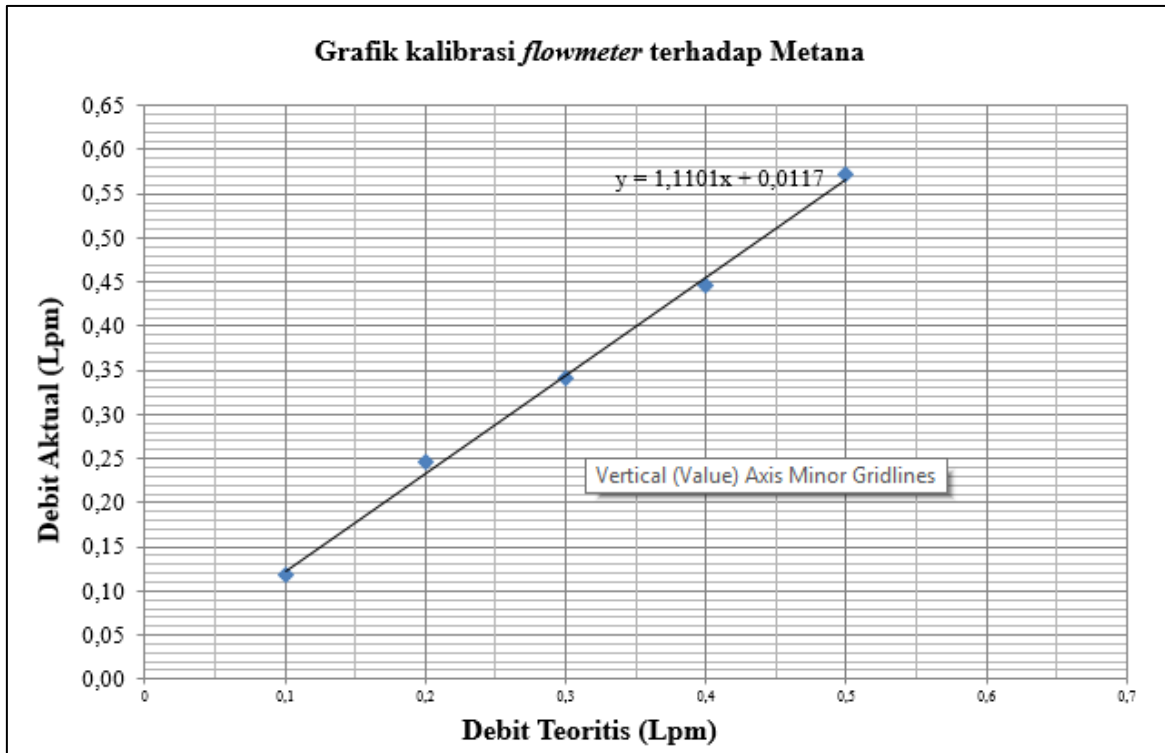
0,88					
0.78					

Lampiran 3 Tabel Hasil Karakteristik Nyala Api

Tinggi ring	Parameter	$\Phi=0,78$	$\Phi=0,88$	$\Phi=1,01$	$\Phi=1,18$	$\Phi=1,40$
78 mm	T ujung ($^{\circ}\text{C}$)	1105,67	1164,33	1251,67	1178,33	1119,33
	T tengah ($^{\circ}\text{C}$)	1077,67	1103,67	1192,67	1079,33	1056,67
	S_L (cm/s)	28,31	30,23	37,80	21,93	11,27
	Tinggi api(mm)	28,97	24,04	16,76	25,40	43,29
83 mm	T ujung ($^{\circ}\text{C}$)	1115,33	1174	1264,33	1187,67	1129,67
	T tengah ($^{\circ}\text{C}$)	1085,33	1117	1204,33	1088	1067
	S_L (cm/s)	29,39	31,42	39,69	22,72	11,64
	Tinggi api(mm)	27,87	23,09	15,87	24,46	41,91
88 mm	T ujung ($^{\circ}\text{C}$)	1124,67	1182,67	1272	1195	1138,67
	T tengah ($^{\circ}\text{C}$)	1095	1125,33	1211	1094,33	1076
	S_L (cm/s)	30,53	32,81	41,01	23,26	11,98
	Tinggi api(mm)	26,77	22,04	15,3	23,87	40,68
93 mm	T ujung ($^{\circ}\text{C}$)	1135,67	1196,67	1285,33	1204	1147,67
	T tengah ($^{\circ}\text{C}$)	1106	1134,67	1224,67	1108	1083,67
	S_L (cm/s)	31,53	34,15	43,02	24,80	12,34
	Tinggi api(mm)	25,89	21,1	14,48	22,28	39,47
98 mm	T ujung ($^{\circ}\text{C}$)	1146,33	1206,33	1296	1219,67	1158,67
	T tengah ($^{\circ}\text{C}$)	1116,67	1148	1239,67	1119,67	1094,67
	S_L (cm/s)	33,49	35,89	43,49	25,80	13,12
	Tinggi api(mm)	24,27	19,99	13,96	21,36	37,07

Lampiran 4 Data Kalibrasi Flowmeter Gas Metana

- Gambar Grafik Kalibrasi Flowmeter Gas metana

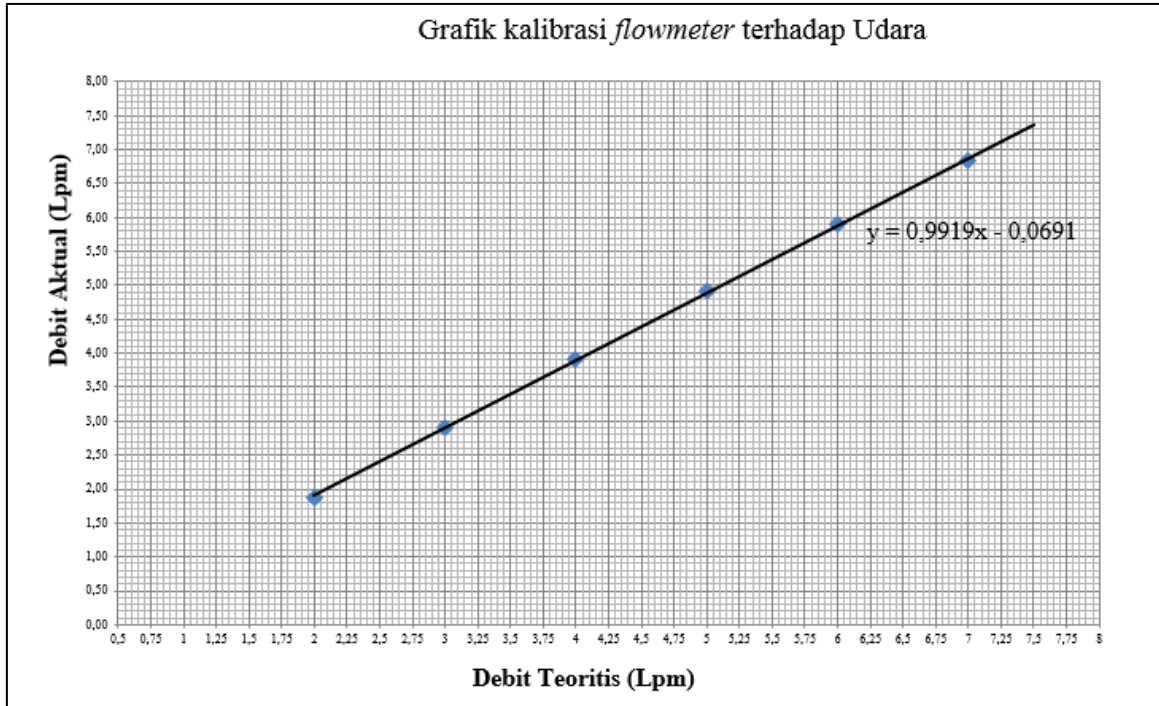


- Tabel Kalibrasi Gas Metana

Debit T (L/min)	Tinggi 1 (cm)	Tinggi 2 (cm)	Tinggi 3 (cm)	Average Tinggi Q	Debit A (L/min)
0,1	7	7,5	6,8	7,1	0,118
0,2	15	15	14,4	14,8	0,246
0,3	20	20,5	21	20,5	0,341
0,4	26,9	26,7	27,1	26,9	0,447
0,5	34	34,7	34,7	34,46666667	0,573

Lampiran 5 Data Kalibrasi Flowmeter Udara

- Gambar Grafik Kalibrasi Flowmeter Udara



- Tabel Kalibrasi Udara

Debit T (L/min)	Tinggi 1 (cm)	Tinggi 2 (cm)	Tinggi 3 (cm)	Average Tinggi Q/(10s)	Debit A (L/min)
2	5,7	5,7	5,6	5,666666667	1,883
3	8,7	8,8	8,8	8,766666667	2,912
4	11,8	11,9	11,7	11,8	3,920
5	14,8	14,7	14,9	14,8	4,917
6	17,7	17,7	17,9	17,766666667	5,902
7	20,6	20,6	20,5	20,566666667	6,832