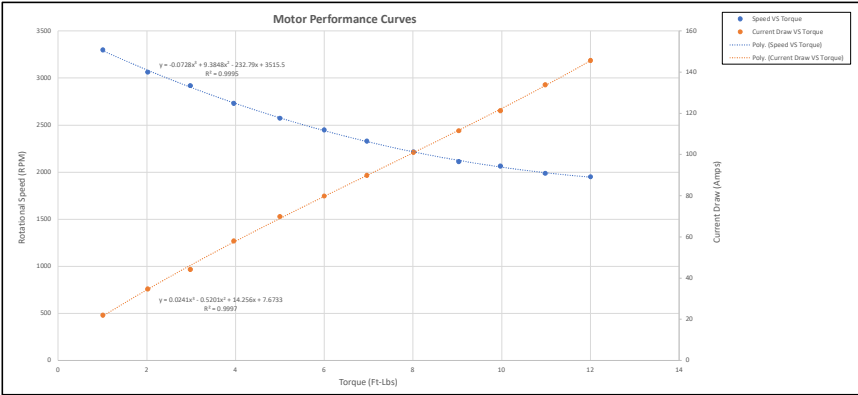
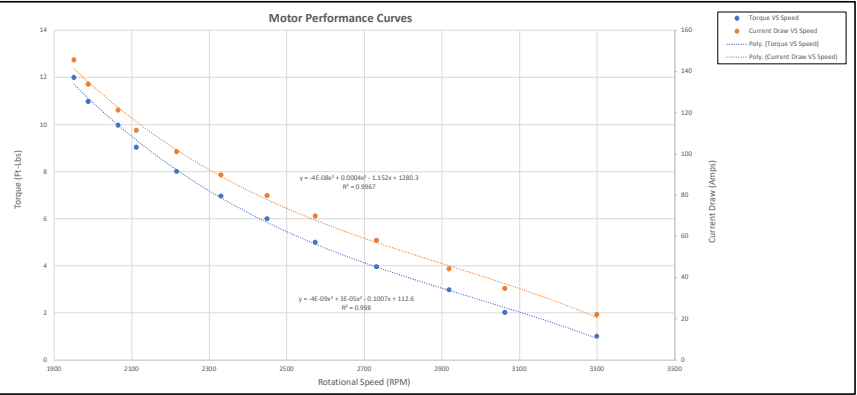
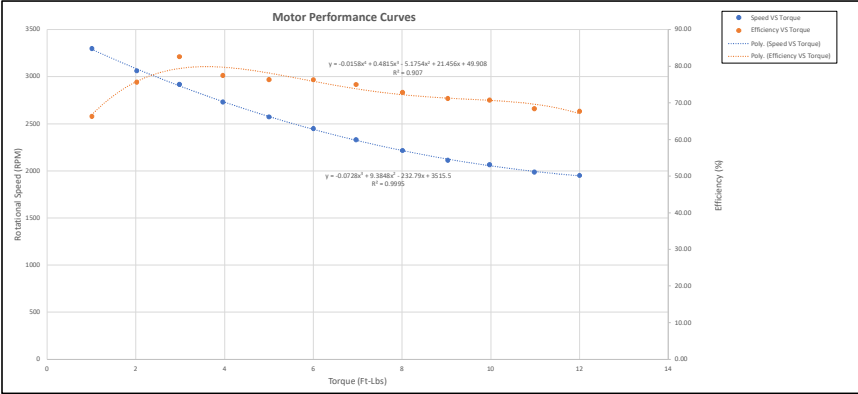
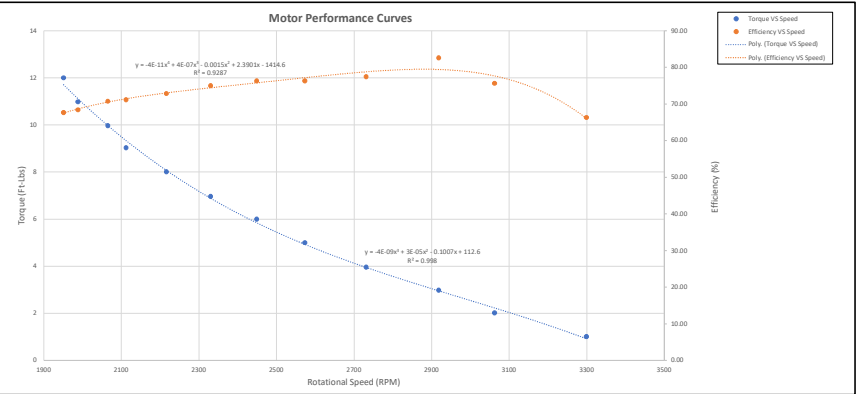


Engineering Performance Test Report

Performance Spec (PS) Number: 7

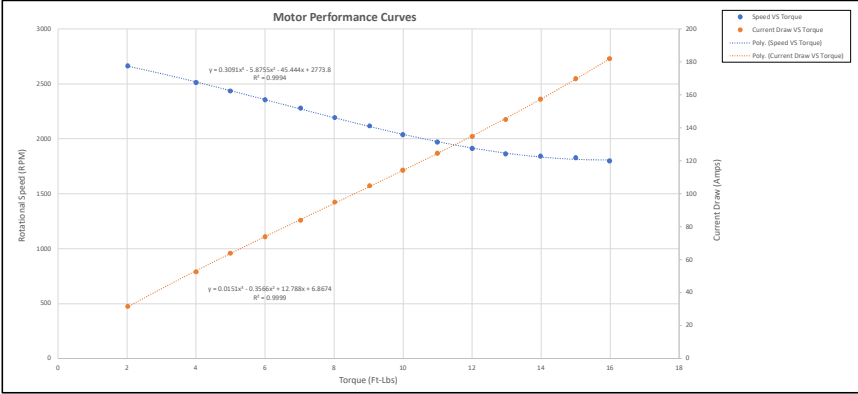
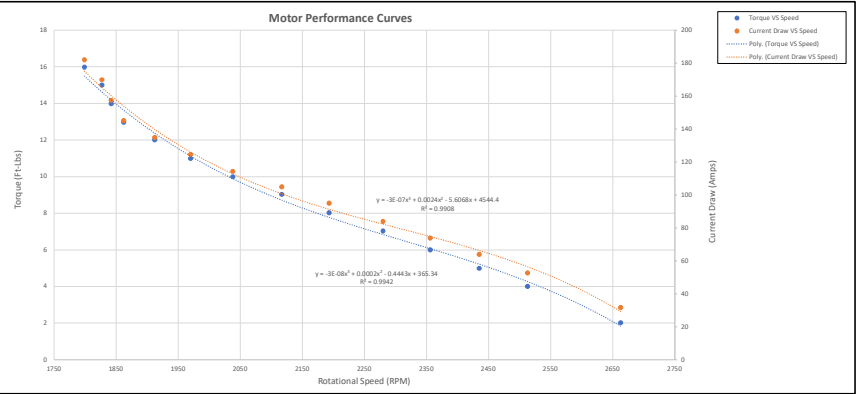
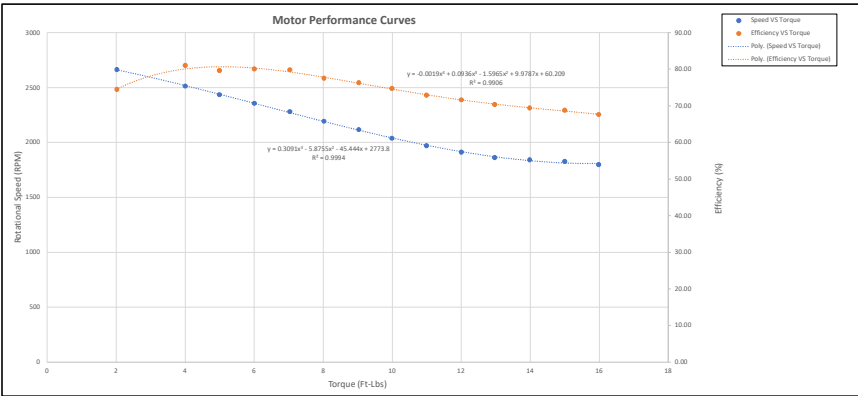
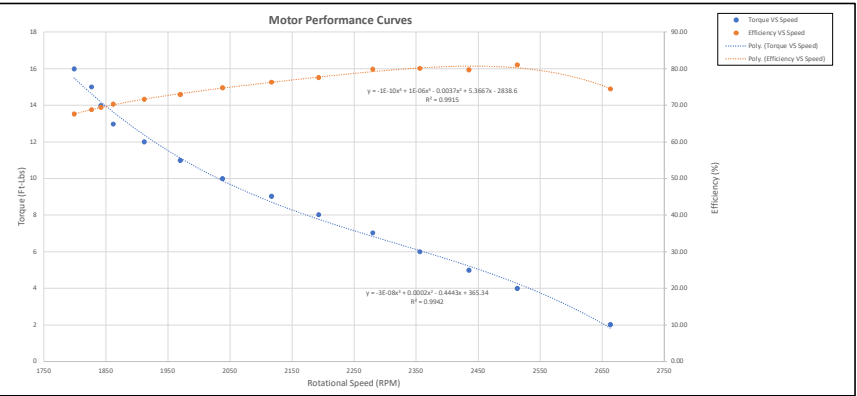
System Voltage (V): 36 - 1 * 0.015

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.01	3299	36.4	19.1	3.1	2.92	22.02	0.95	0.63	66.32
2.02	2952	36.2	31.8	3.1	2.94	34.74	1.56	1.18	75.64
2.98	2918	36	41.3	3.1	2.93	44.23	2.01	1.66	82.59
3.96	2731	35.8	55.1	3.1	2.91	58.01	2.66	2.06	77.44
5	2573	35.6	67	3.1	2.93	69.93	3.21	2.45	76.32
6	2449	35.4	76.9	3.1	2.93	79.83	3.67	2.8	76.29
6.96	2330	35.3	86.9	3.1	2.95	89.85	4.12	3.09	75.00
8.01	2216	35.1	98.2	3.1	2.89	101.09	4.64	3.38	72.84
9.03	2112	35	108.6	3.1	2.9	111.5	5.1	3.63	71.18
9.97	2065	34.9	118.3	3.1	2.97	121.27	5.54	3.92	70.36
10.98	1988	34.6	130.8	3.1	3.03	133.83	6.08	4.16	68.42
12	1951	34.4	142.7	3.1	2.98	145.68	6.59	4.46	67.68



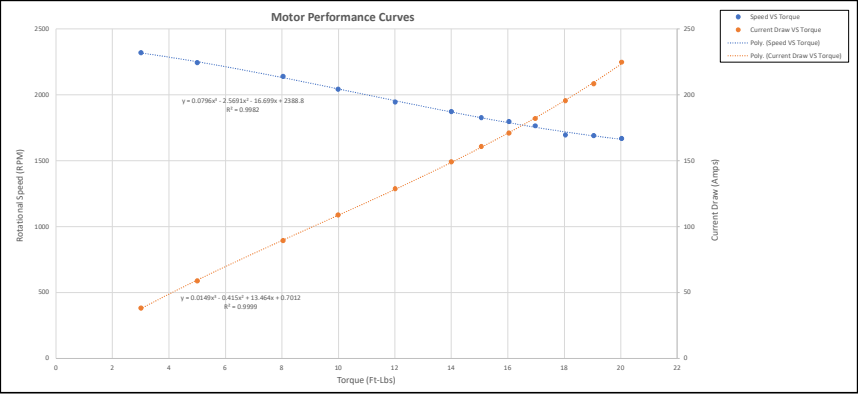
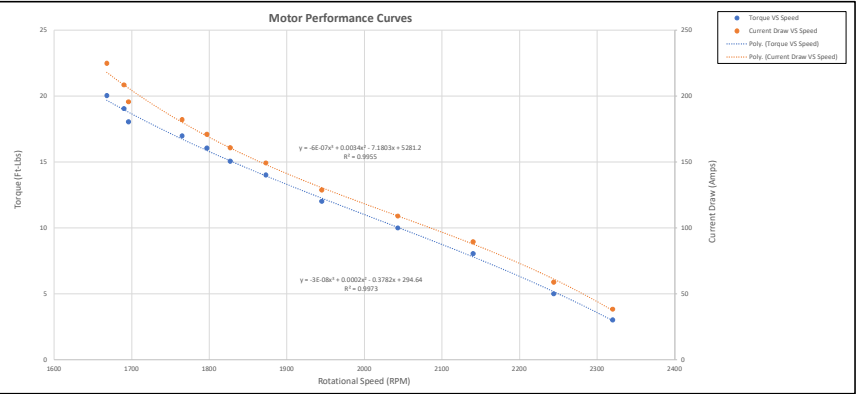
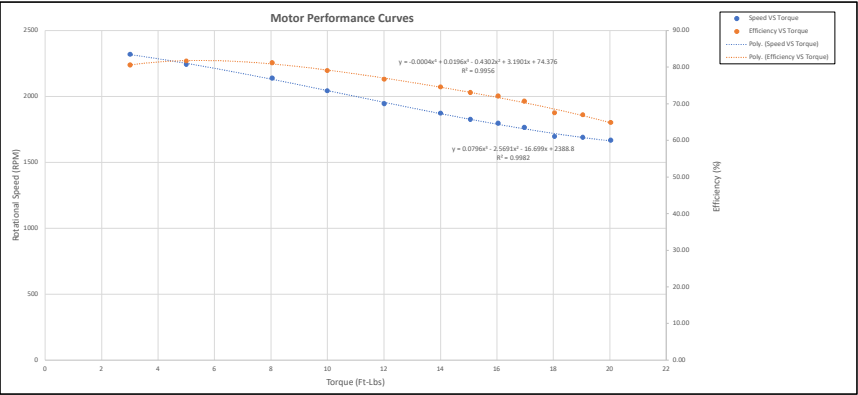
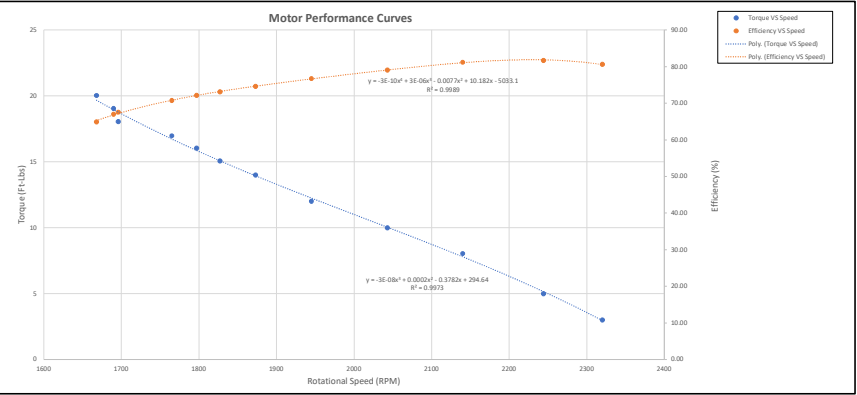
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.02	2663	36.2	27.7	4.1	3.97	31.67	1.37	1.02	74.45
4	2513	35.9	48.7	4.1	3.93	52.63	2.37	1.92	81.01
4.99	2435	35.8	60	4.1	3.93	63.93	2.9	2.31	79.66
6	2356	35.6	69.9	4.1	3.96	73.86	3.36	2.69	80.06
7.03	2280	35.4	80	4.1	3.91	83.91	3.82	3.05	79.84
8.02	2193	35.3	91	4.1	3.94	96.94	4.32	3.35	77.55
9.03	2117	35.1	100.9	4.1	3.93	104.83	4.77	3.64	76.31
9.99	2038	35	110.4	4.2	3.92	114.32	5.19	3.88	74.76
10.99	1970	34.8	120.6	4.1	3.97	124.57	5.65	4.12	72.92
12	1912	34.7	130.8	4.2	4.01	134.81	6.1	4.37	71.64
12.97	1862	34.5	141.1	4.2	3.93	145.03	6.54	4.6	70.34
13.98	1842	34.2	153.4	4.2	3.99	157.39	7.06	4.9	69.41
15	1827	34	165.9	4.2	3.97	169.87	7.59	5.22	68.77
15.98	1799	33.8	178	4.2	3.94	181.94	8.09	5.47	67.61



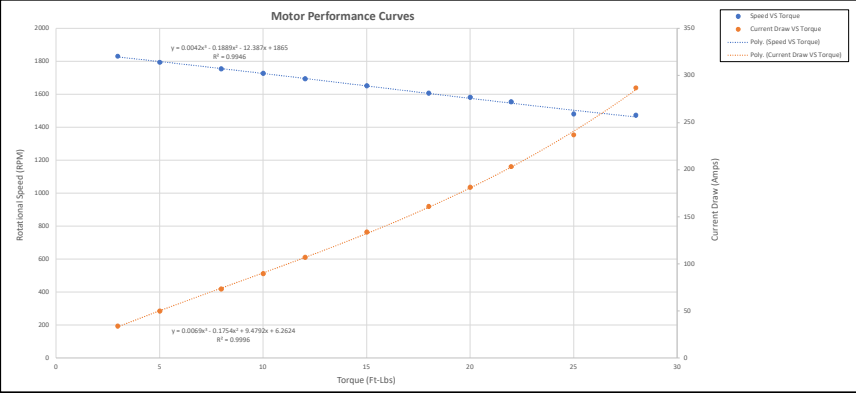
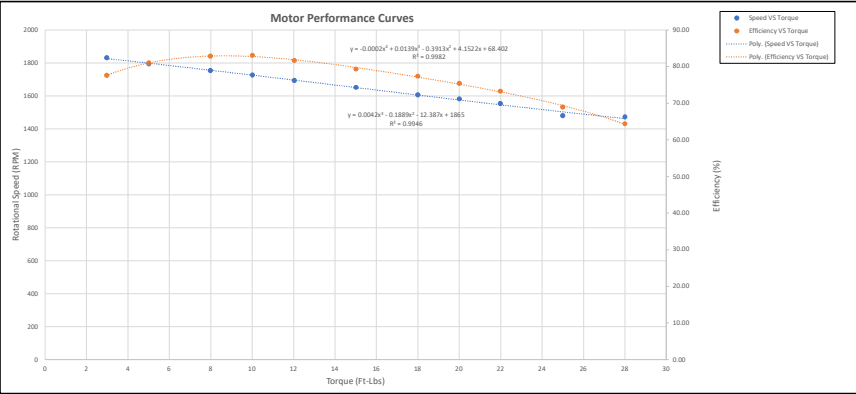
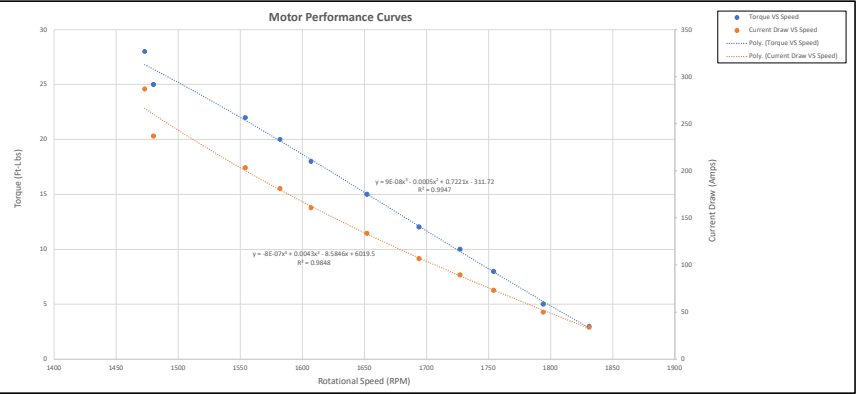
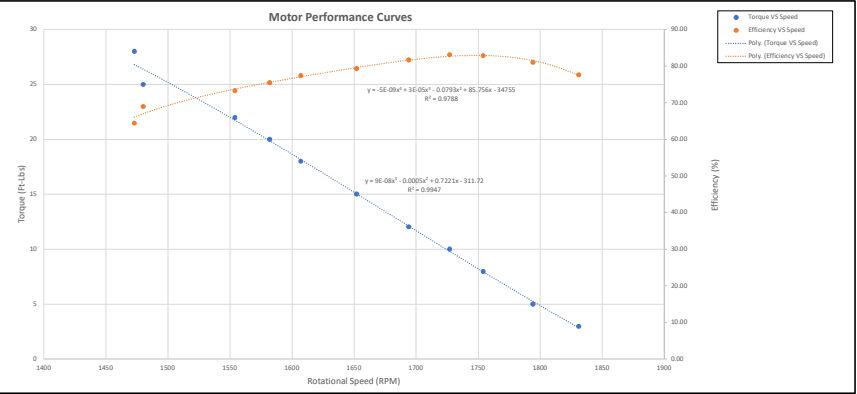
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3.01	2320	36.2	33.4	4.9	4.96	38.36	1.65	1.33	80.61
5	2244	35.8	33.9	4.9	4.94	38.84	2.62	2.14	81.68
8.04	2140	35.4	34.4	4.9	5	39.4	4.04	3.28	81.35
9.99	2043	35.1	34.7	4.9	4.97	39.97	4.92	3.89	79.07
12.01	1945	34.7	34.9	4.9	4.96	40.76	5.8	4.45	76.72
14	1873	34.4	34.3	5	4.92	40.22	6.69	4.99	74.59
15.06	1827	34.2	34.2	5	4.95	40.75	7.17	5.24	73.08
16.04	1787	34	34	5	4.94	40.94	7.61	5.49	72.14
16.97	1765	33.8	33.8	5	5.06	41.86	8.06	5.7	70.72
18.04	1696	33.7	33.7	5	5.09	43.79	8.63	6.13	69.99
19.04	1690	33.4	33.4	5	4.91	43.31	9.15	6.13	66.99
20.03	1668	33.2	33.2	5	4.97	43.17	9.8	6.36	64.90



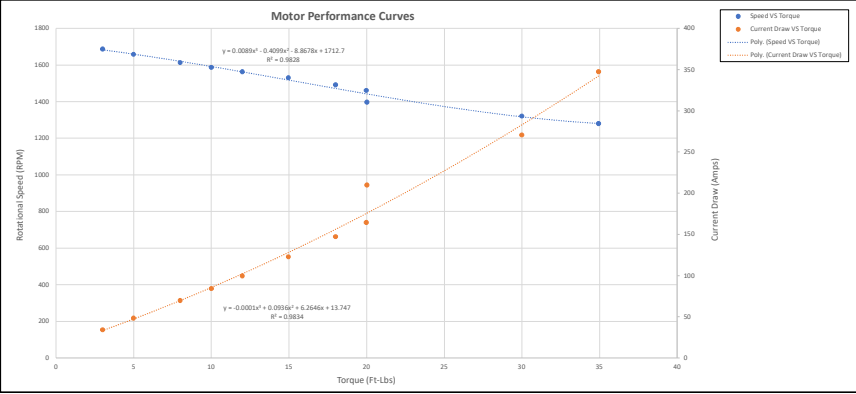
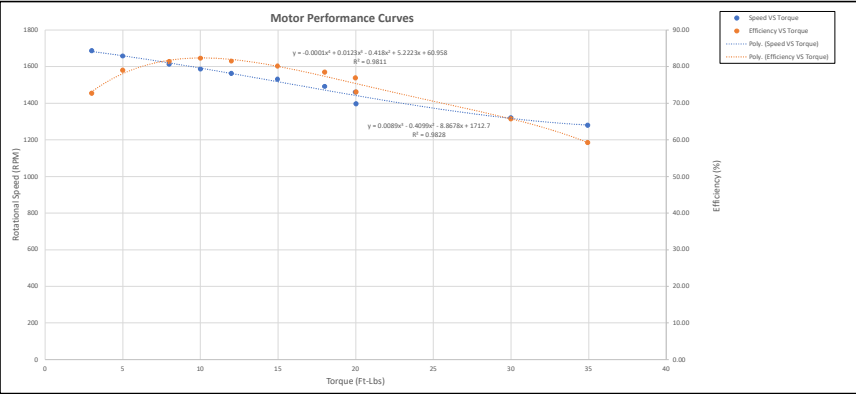
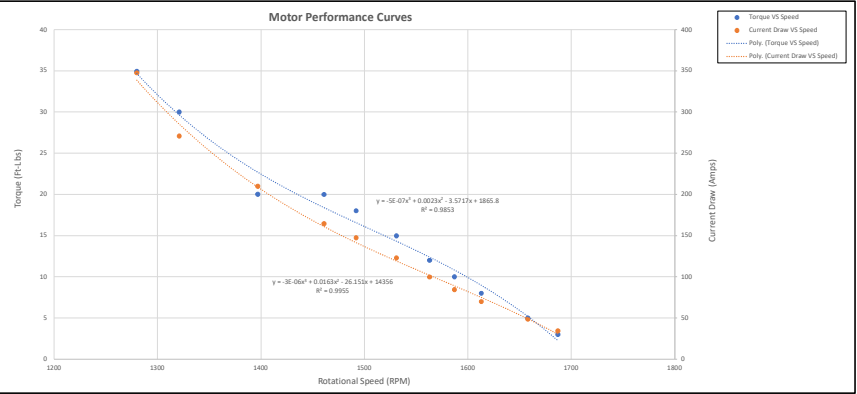
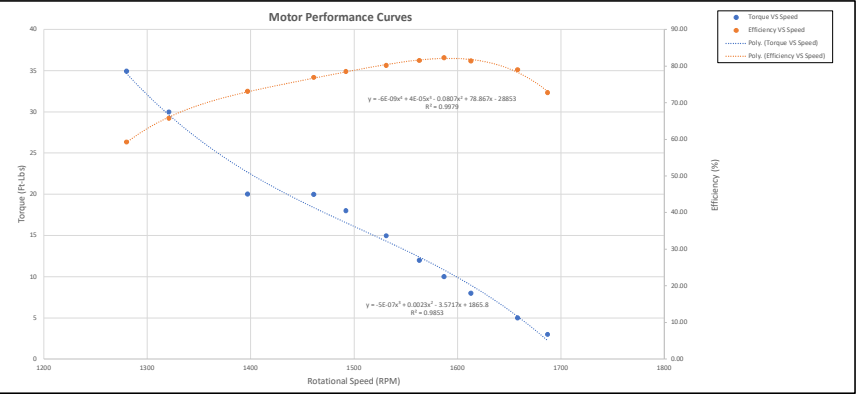
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.98	1831	36.3	25.9	8.1	8.03	33.93	1.34	1.04	77.61
5.01	1794	36	41.9	8.1	8.03	49.93	2.11	1.71	81.04
7.98	1754	35.7	65.2	8.2	8.06	73.26	3.22	2.66	82.87
10.01	1727	35.5	81.5	8.2	8	89.5	3.96	3.29	83.08
12.03	1694	35.2	98.8	8.2	8.06	106.86	4.75	3.88	81.68
15.01	1652	34.8	125.7	8.2	7.99	133.69	5.95	4.72	79.38
18	1607	34.3	152.9	8.2	7.99	160.89	7.12	5.51	77.39
20	1582	34	173.3	8.3	8	181.3	7.98	6.02	75.44
21.98	1554	33.6	195.2	8.3	7.98	203.18	8.87	6.5	73.28
25	1480	33	228.9	8.3	8.03	236.93	10.21	7.04	68.95
28	1473	32.4	278.8	8.3	8	286.8	12.19	7.85	64.40



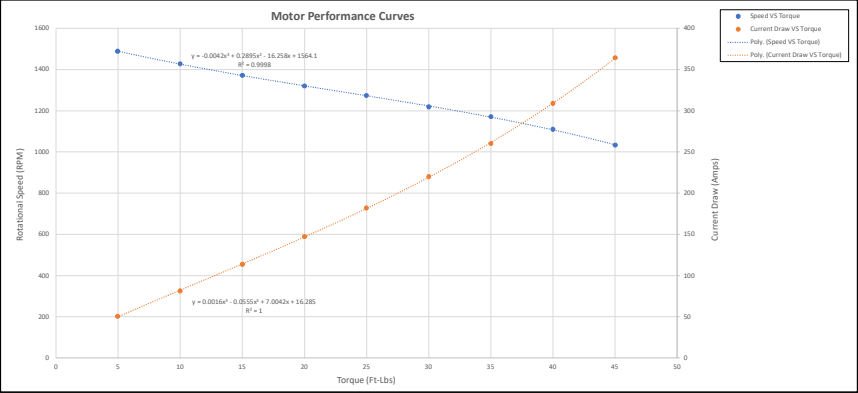
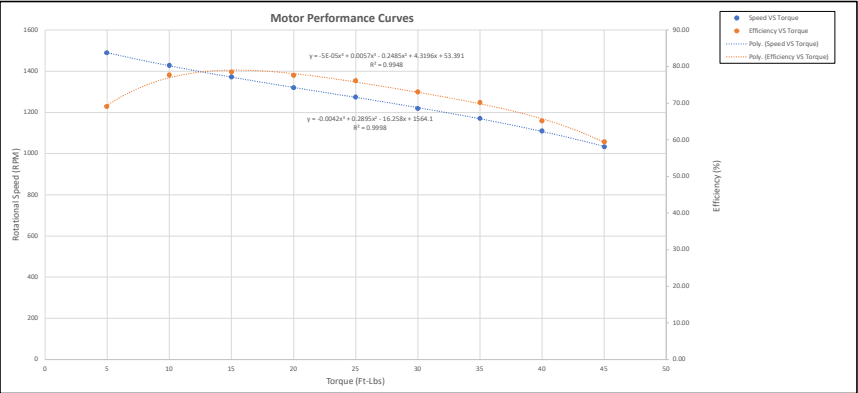
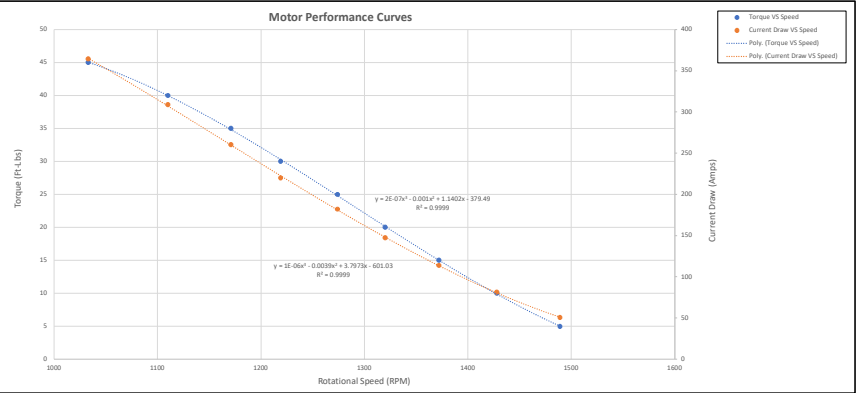
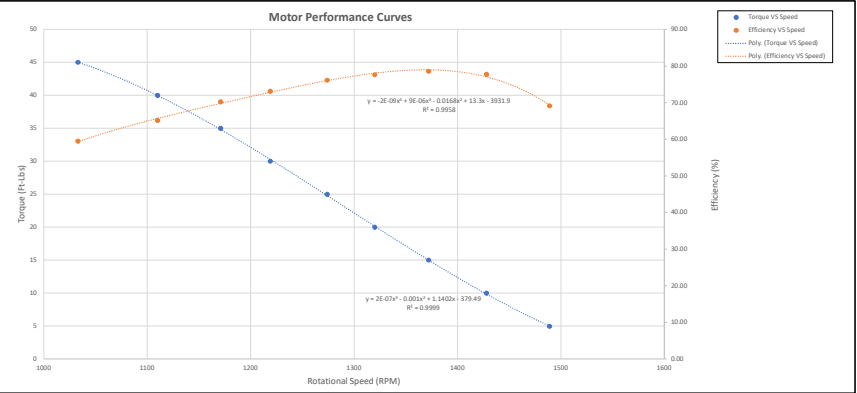
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3	1687	36.3	24.2	10.3	10.04	34.24	1.32	0.96	72.73
4.99	1658	36.4	28.5	10.4	10.06	48.56	2	1.58	79.00
7.99	1613	35.8	59.8	10.4	9.97	69.77	3.01	2.45	81.40
10	1587	35.6	74.2	10.4	10.05	84.25	3.67	3.02	82.29
11.99	1563	35.3	89.7	10.5	9.98	99.68	4.38	3.57	81.51
14.96	1531	35	112.8	10.5	9.99	122.79	5.44	4.36	80.15
18	1492	34.6	137.3	10.5	10.01	147.31	6.51	5.11	78.49
19.98	1461	34.3	154.3	10.6	10.06	164.36	7.23	5.56	76.90
20.02	1397	33.5	199.7	10.6	10.15	209.85	9.11	6.66	73.11
29.99	1321	32.5	260.5	10.6	10.08	270.58	11.48	7.55	65.77
34.93	1280	31.4	337.4	10.7	9.97	347.37	14.36	8.51	59.26



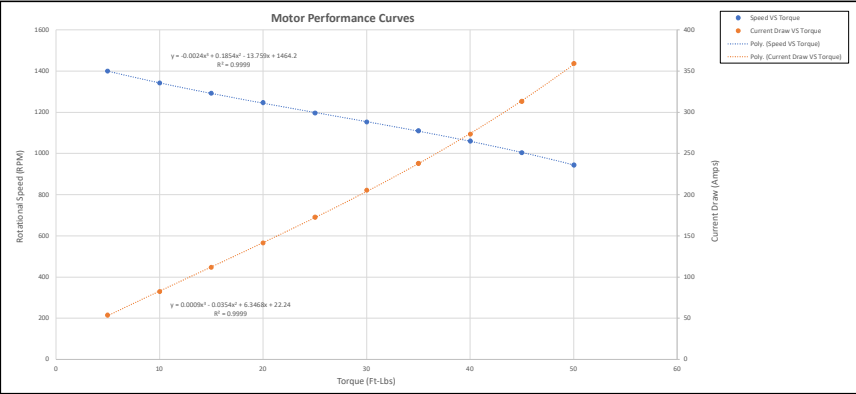
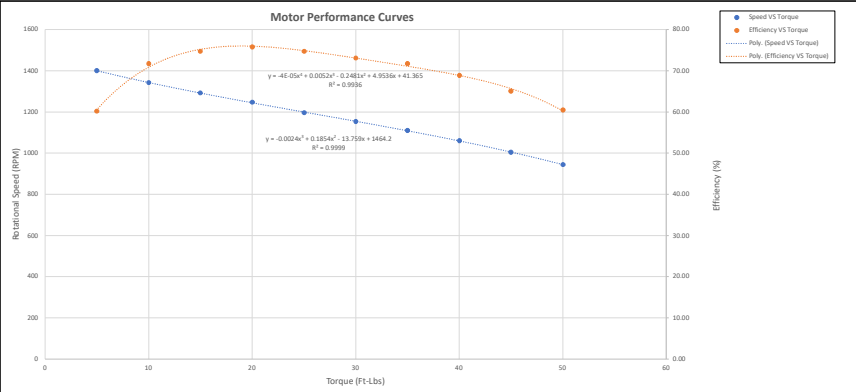
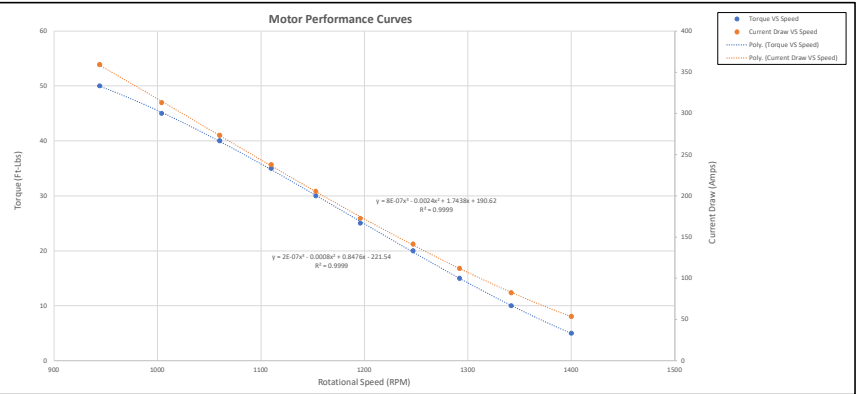
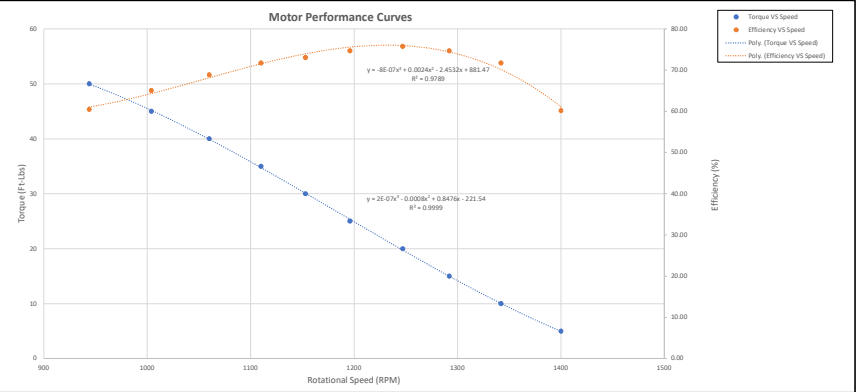
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.96	1489	36.2	35.4	16.1	15.06	50.46	2.04	1.41	69.12
9.99	1428	35.7	35.3	16.2	15.05	50.35	3.5	2.72	77.71
15	1372	35.2	34.8	16.3	15.09	51.19	4.99	3.92	78.56
20	1320	34.7	34.2	16.4	15.09	51.29	6.48	5.03	77.62
24.98	1274	34.1	33.6	16.5	15.15	52.05	7.96	6.06	76.13
30	1229	33.5	33.5	16.6	15.11	52.01	9.52	6.96	73.11
35	1171	32.8	32.8	16.7	15.02	52.62	11.11	7.8	70.21
39.99	1110	32.1	32.1	16.8	15.03	53.83	12.97	8.45	65.15
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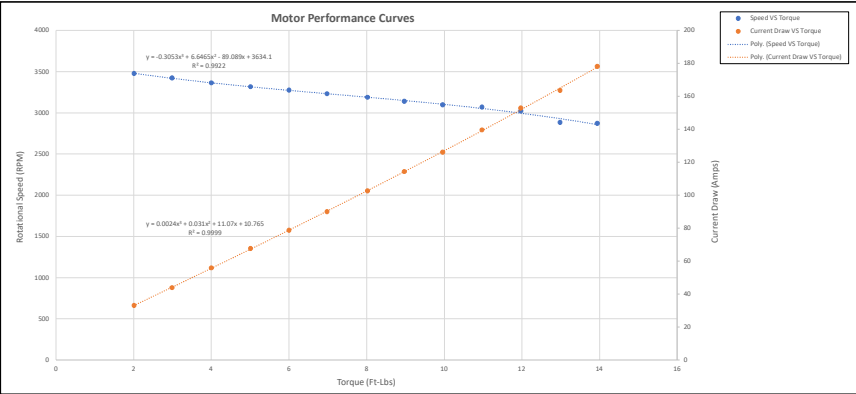
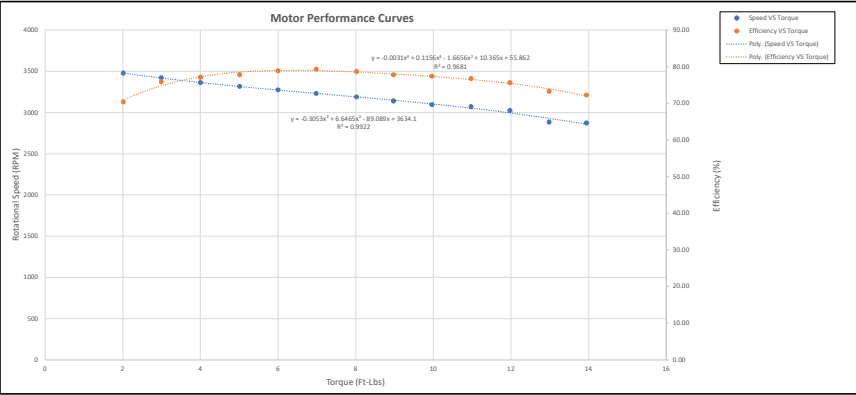
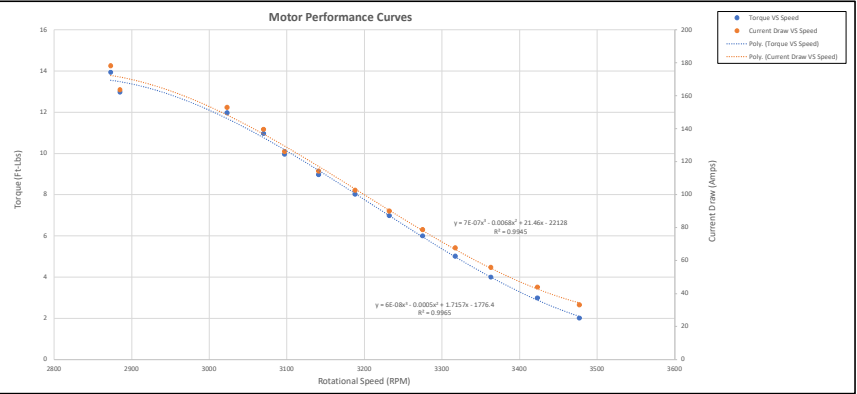
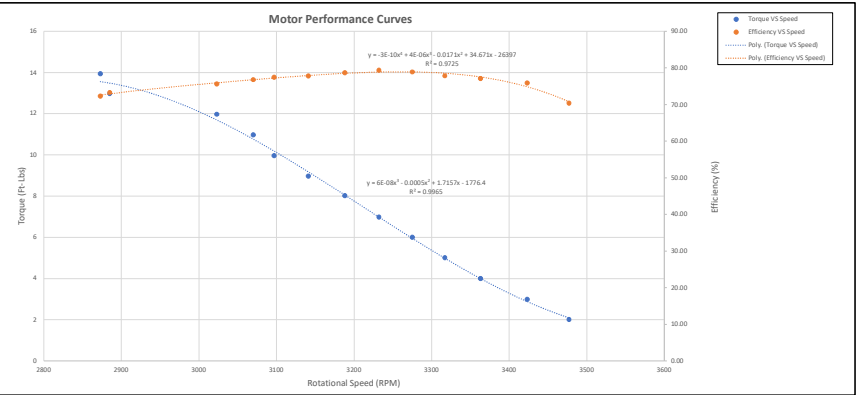
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.98	1400	36.2	33.6	21.4	20.1	53.7	2.21	1.33	60.18
10.01	1342	35.7	32.3	21.7	20.06	52.36	3.57	2.56	71.71
14.99	1292	35.3	31.8	22	20.09	51.89	4.94	3.69	74.20
20	1247	34.9	32.4	22.2	20.09	54.49	6.27	4.75	75.76
25.02	1196	34.4	32.5	22.4	20.14	57.64	7.63	5.7	74.71
30.01	1153	33.9	33.9	22.7	20	60.4	9.02	6.59	73.06
35	1110	33.3	33.8	22.9	20.09	63.89	10.32	7.4	71.71
40.02	1060	32.7	33.4	23.1	20.06	67.46	11.72	8.07	68.86
44.99	1004	32.1	33.2	23.3	19.95	71.15	13.22	8.6	65.05
50.02	944	31.3	33.3	23.5	19.81	75.11	14.87	8.99	60.46



Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.01	3477	47.8	29.2	4.1	3.98	33.18	1.89	1.33	70.37
2.99	3428	47.6	40	4.1	3.92	43.92	2.57	1.95	75.88
4	3363	47.4	52	4.1	3.96	55.96	3.32	2.56	77.11
5.01	3317	47.2	63.8	4.1	3.89	67.69	4.06	3.16	77.83
6	3275	47	74.8	4.2	3.96	78.76	4.74	3.74	78.90
6.98	3232	46.8	86.1	4.2	3.95	90.05	5.42	4.3	79.34
8.02	3188	46.6	98.7	4.2	3.95	102.65	6.19	4.87	78.68
8.97	3141	46.4	110.4	4.2	3.95	114.35	6.89	5.36	77.79
9.96	3097	46.1	122.2	4.2	3.97	126.17	7.58	5.87	77.44
10.97	3070	45.8	135.7	4.2	3.9	139.6	8.35	6.41	76.77
11.97	3023	45.5	148.9	4.2	3.99	152.89	9.11	6.89	75.63
12.98	2885	45.4	159.7	4.2	3.95	163.65	9.73	7.13	73.28
13.94	2873	45	174.2	4.2	3.96	178.16	10.54	7.62	72.30

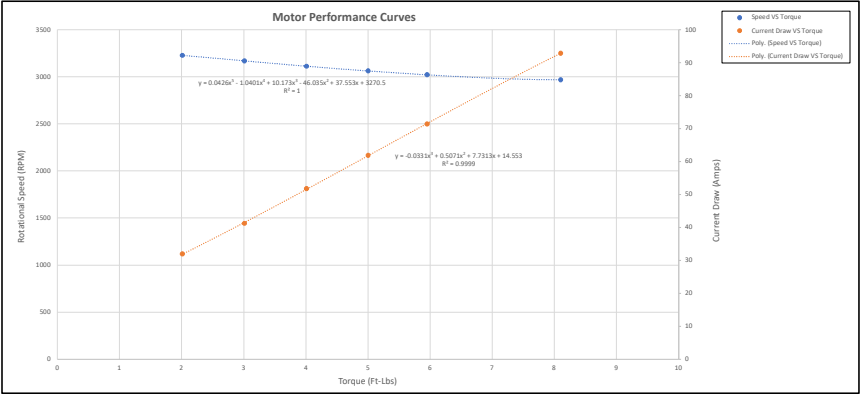
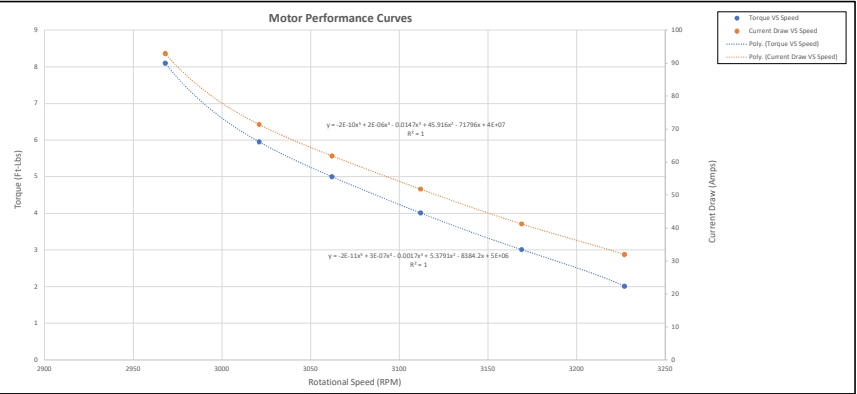
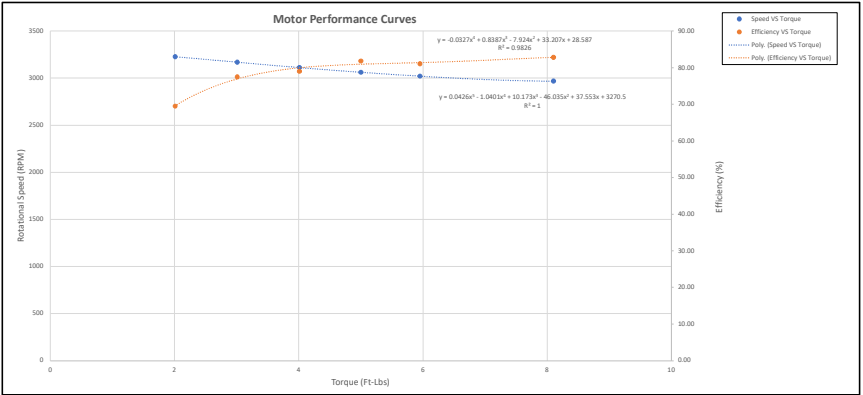
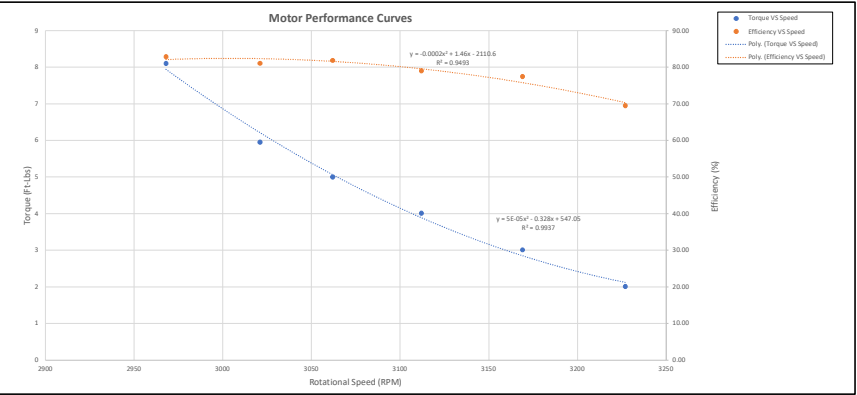


Engineering Performance Test Report

Performance Spec (PS) Number: 7

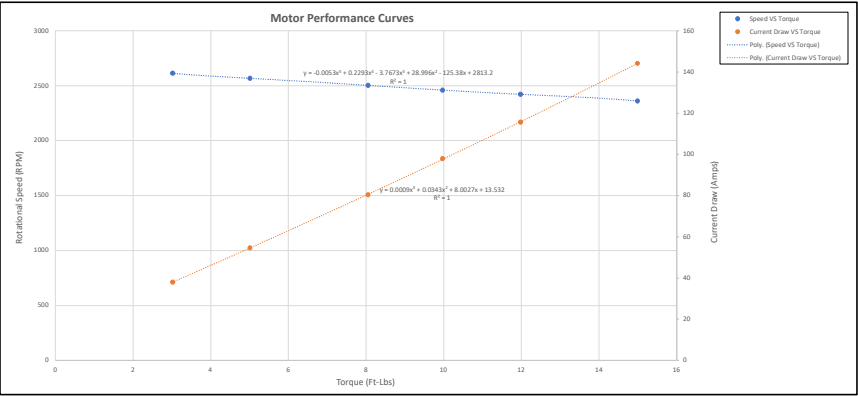
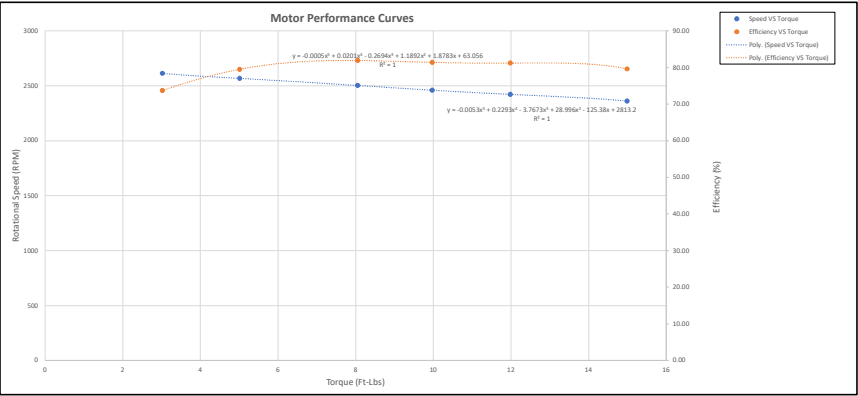
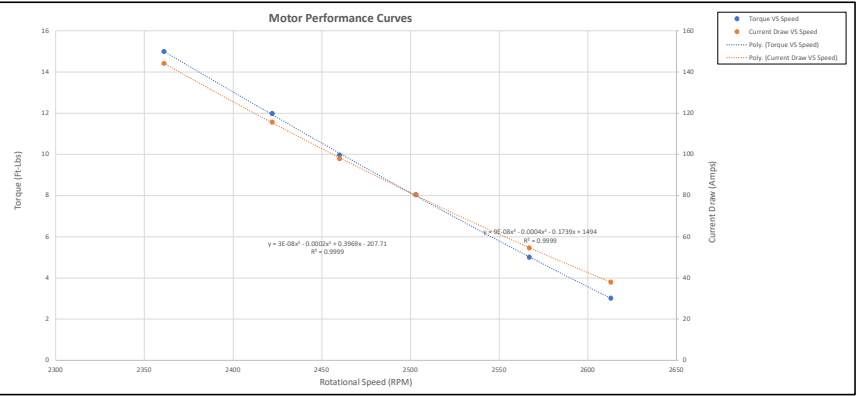
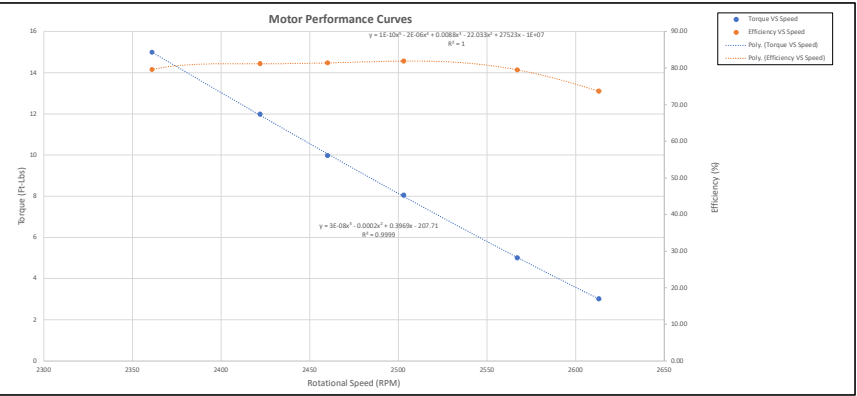
System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.01	3227	47.7	27	6	4.97	31.97	1.77	1.23	69.49
3.01	3169	47.5	26.3	6	4.93	41.23	2.35	1.82	77.45
4.01	3112	47.3	46.8	6	4.98	51.78	3	2.37	79.00
5	3062	47.1	56.9	6	4.97	61.87	3.63	2.97	81.82
5.95	3021	47	66.4	6	4.98	71.38	4.22	3.42	81.04
8.1	2958	46.6	17.9	6	4.98	92.88	5.53	4.58	82.82
9.96	2899	46.2	105.5	5.9	5.01	110.51	6.57	5.5	83.71
12.03	2783	45.6	132.4	5.9	4.92	137.32	8.13	6.37	78.35
14.98	2624	44.8	169.4	6	5.01	174.41	10.21	7.48	73.26



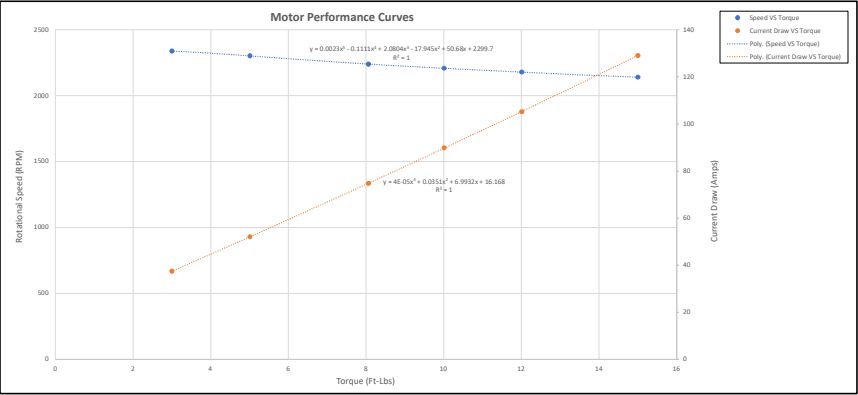
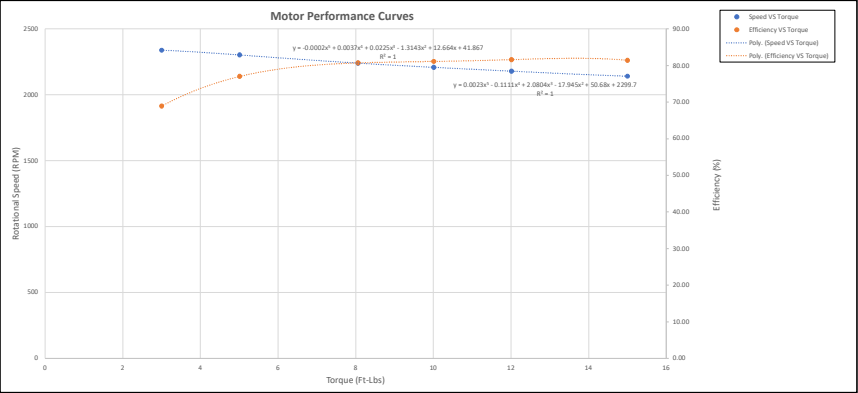
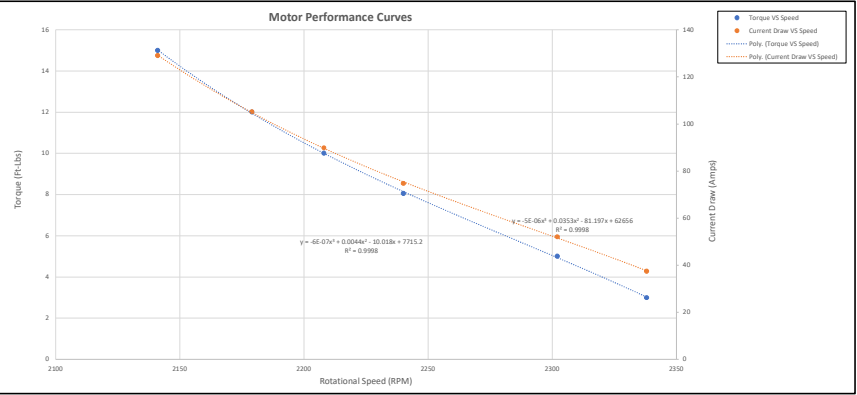
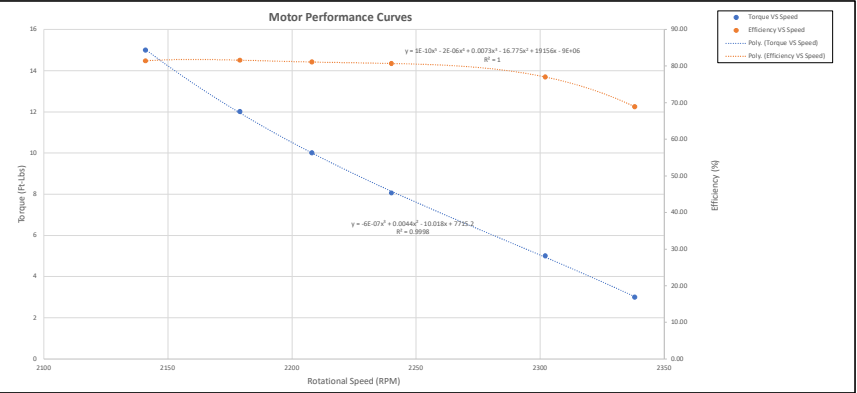
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3.02	2613	47.6	30.5	9.6	7.54	38.04	2.04	1.5	73.70
5.01	2567	47.3	47.3	9.5	7.52	54.82	3.08	2.45	79.50
8.05	2503	46.9	72.9	9.5	7.55	80.45	4.69	3.84	81.90
9.97	2460	46.6	90.3	9.5	7.62	97.92	5.74	4.67	81.40
11.98	2422	46.3	108.1	9.5	7.55	115.65	6.8	5.52	81.20
14.99	2363	45.7	136.7	9.5	7.49	144.19	8.47	6.74	79.60



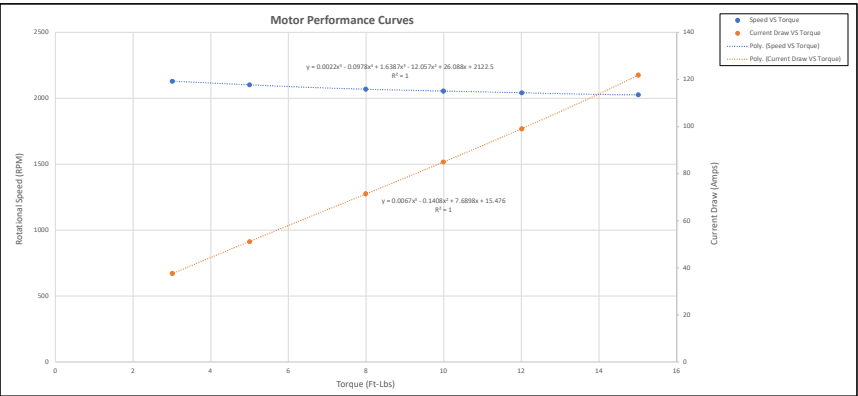
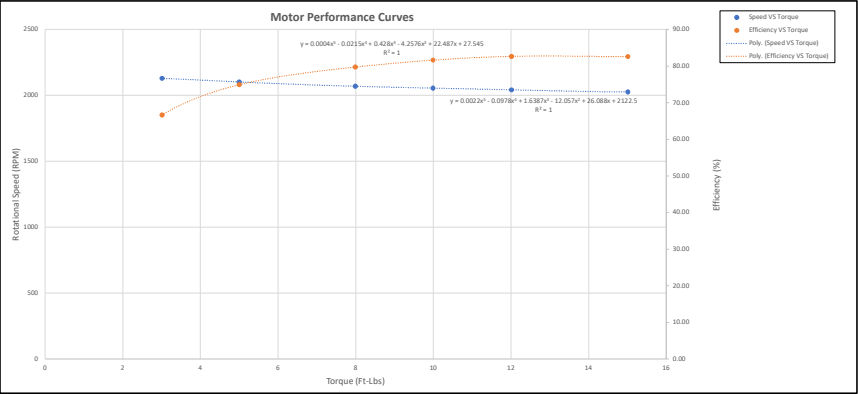
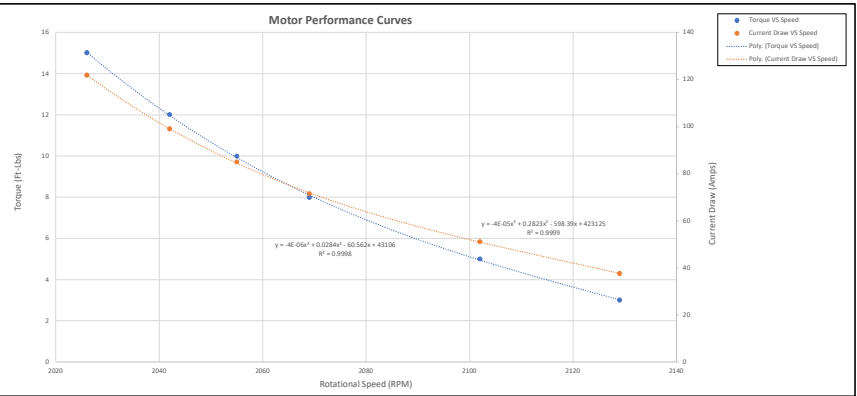
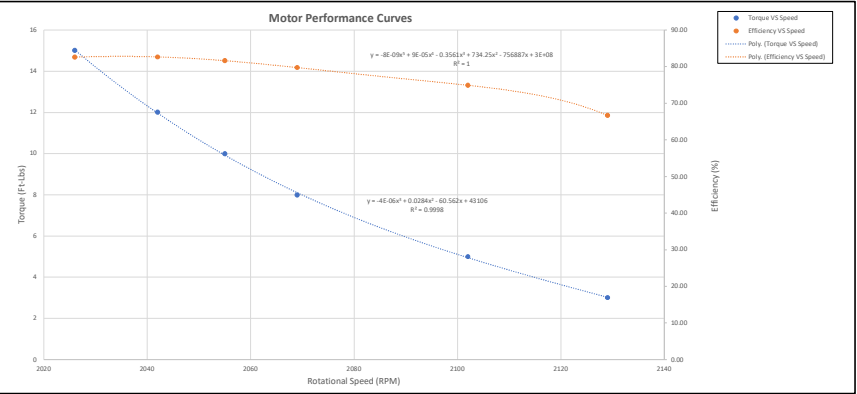
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3	2338	47.7	27.4	13.6	10.07	37.47	1.94	1.33	68.90
5.01	2302	47.5	42	13.6	10.09	52.09	2.2	2.2	77.00
8.06	2240	47.1	64.7	13.6	10.05	74.75	4.26	3.44	80.70
10.01	2208	46.8	79.8	13.6	10.09	89.89	5.19	4.21	81.10
12.01	2179	46.5	95.1	13.6	10.08	105.18	6.11	4.98	81.60
15	2141	46.1	119	13.6	10.11	129.11	7.53	6.17	81.40



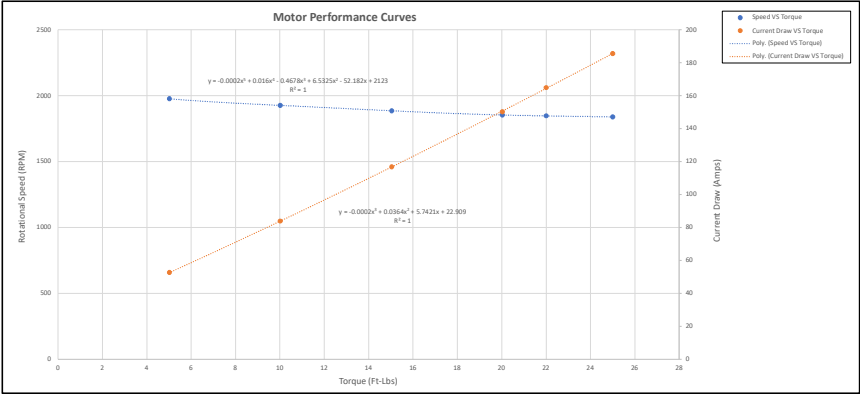
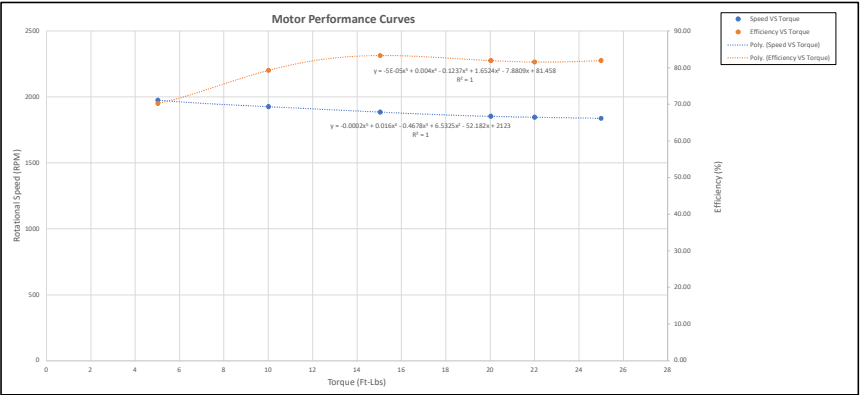
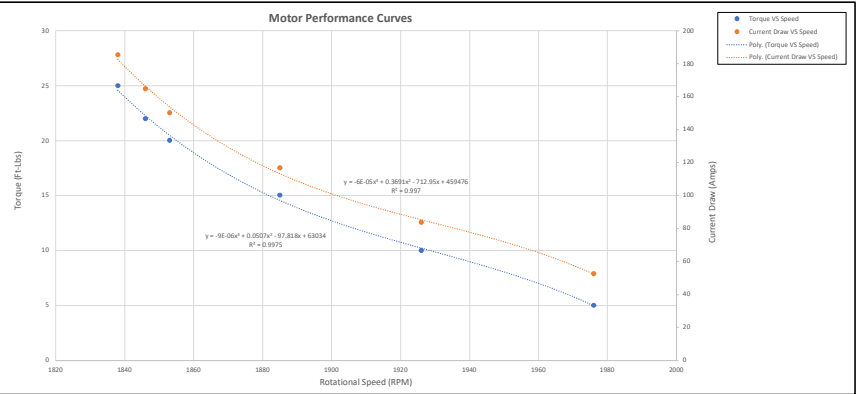
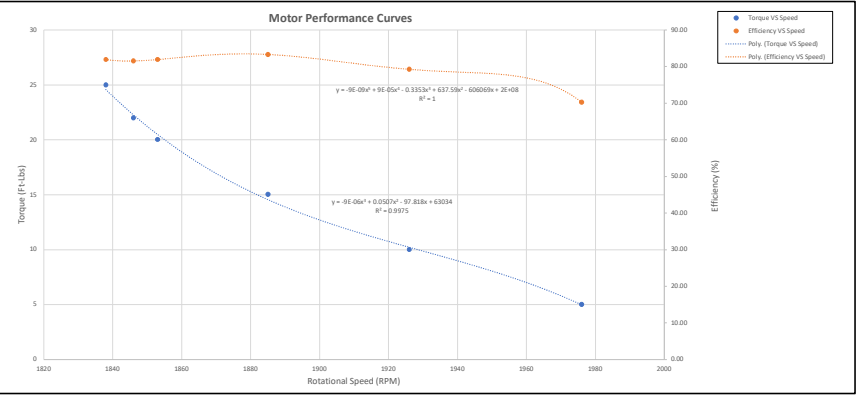
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3.01	2129	47.6	25.5	12.4	12.09	37.59	1.83	1.22	66.67
5	2105	47.4	39	12.4	12.09	51.09	2.67	2	74.91
7.99	2069	47.1	59.4	12.5	12.06	71.46	3.95	3.15	79.25
9.99	2055	46.9	72.9	12.5	12.08	84.98	4.79	3.91	81.63
12.01	2042	46.7	87	12.6	11.99	98.99	5.65	4.67	82.65
15.01	2026	46.3	109.7	12.6	12.14	121.84	7.01	5.79	82.66
18.01	2017	46	132.3	12.7	12.13	144.43	8.35	6.92	82.87
20.02	2015	45.7	148.1	12.7	12.15	160.25	9.28	7.68	82.76
22.01	2019	45.5	166.8	12.8	12.08	178.88	10.37	8.46	81.58
25.04	2020	45	193.7	12.8	11.94	205.64	11.88	9.67	81.40
26.99	2032	44.7	213.9	12.9	12.07	225.97	13.02	10.44	80.18



Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - 1 * 0.015

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.02	1976	47.4	37.5	15.3	15.11	52.61	2.69	1.89	70.26
10.04	1926	46.9	38.7	15.4	15.13	53.89	4.63	3.67	79.27
15.04	1885	46.5	101.7	15.5	15.07	116.77	6.65	5.54	83.31
20.03	1853	45.9	195.1	15.6	15.12	150.22	8.63	7.07	81.92
22	1846	45.7	149.8	15.7	15.05	164.85	9.48	7.73	81.54
25	1838	45.4	170.3	15.8	15.14	185.44	10.68	8.75	81.99
26.99	1831	45.1	186.4	15.9	15.15	201.55	11.59	9.41	81.19
29.99	1824	44.7	210.6	16	15.18	225.78	12.96	10.41	80.32
31.97	1823	44.5	228.6	16.1	14.99	243.59	13.94	11.1	79.63

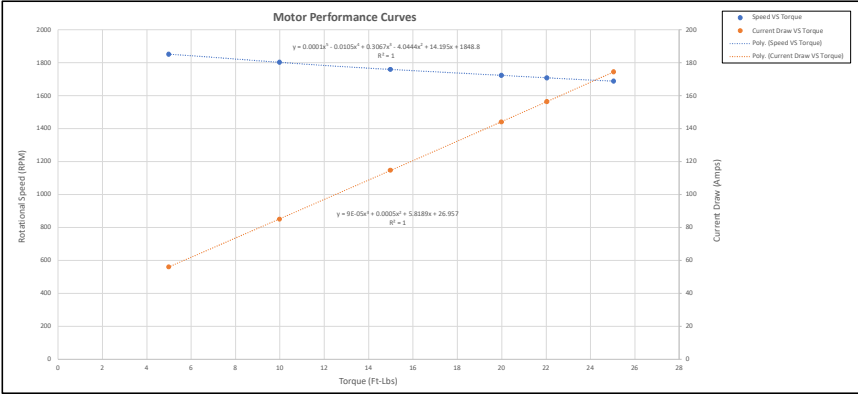
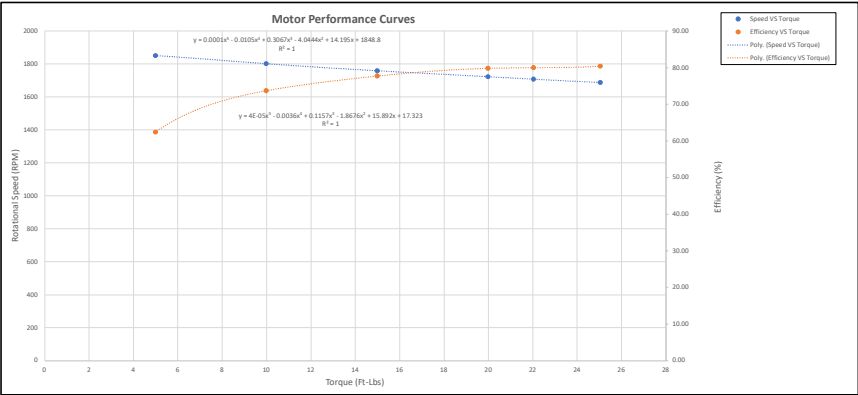
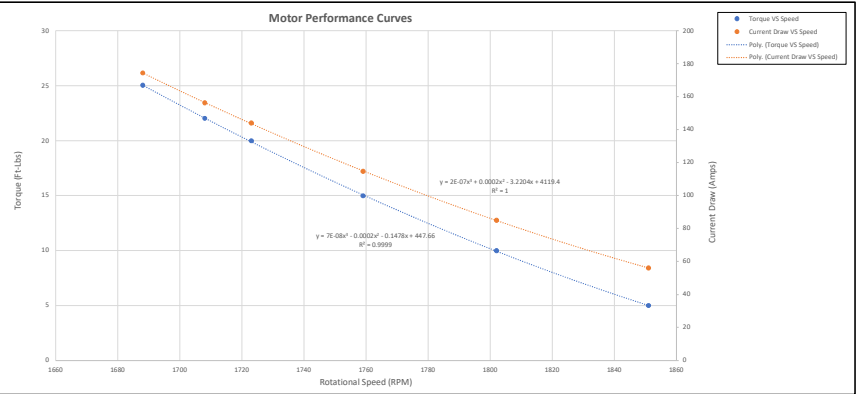
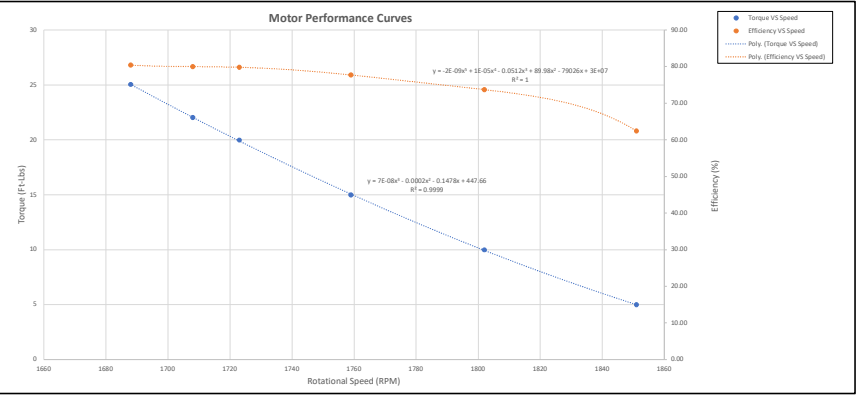


Engineering Performance Test Report

Performance Spec (PS) Number: 7

System Voltage (V): 48 - 1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.99	1851	47.4	35.9	20.1	20.15	56.05	2.82	1.76	62.41
9.98	1802	47	34.9	20.3	20.14	85.34	4.64	3.42	73.71
14.98	1759	46.6	34.6	20.6	20.12	114.72	6.46	5.02	77.73
19.98	1723	46.1	33.9	20.9	20.12	144.02	8.22	6.56	79.81
22.03	1708	45.9	33.2	21.1	20.1	156.3	8.95	7.16	80.00
25.04	1688	45.6	31.4	21.3	20.19	174.39	10.01	8.05	80.42
27.02	1678	45.5	30.6	21.6	20.18	186.78	10.74	8.63	80.35
29.99	1662	45.1	28.1	21.8	20.09	206.19	11.84	9.49	80.15
31.99	1651	44.9	25.5	22	20.3	219.8	12.61	10.06	79.78

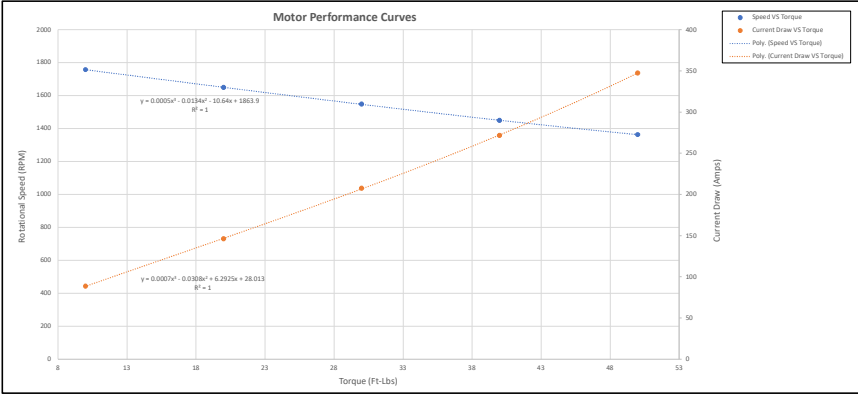
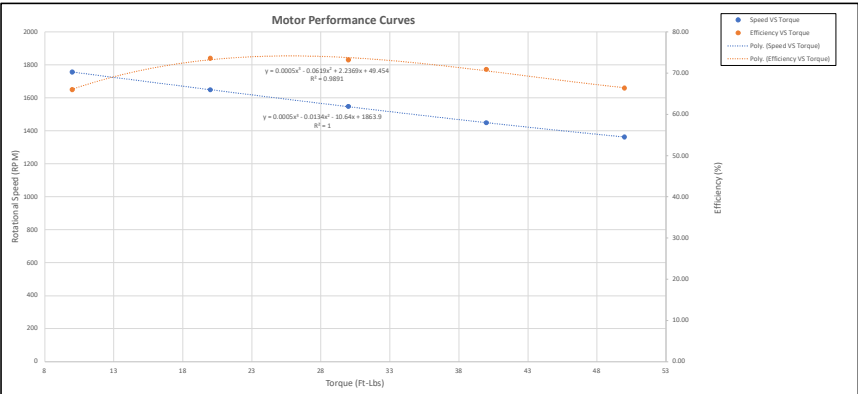
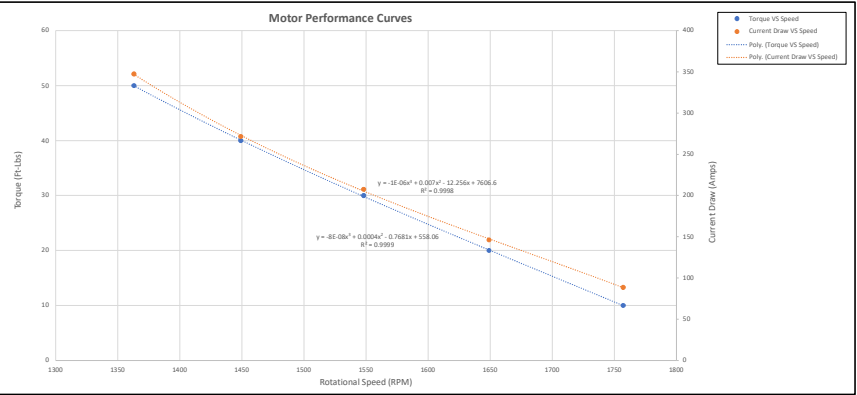
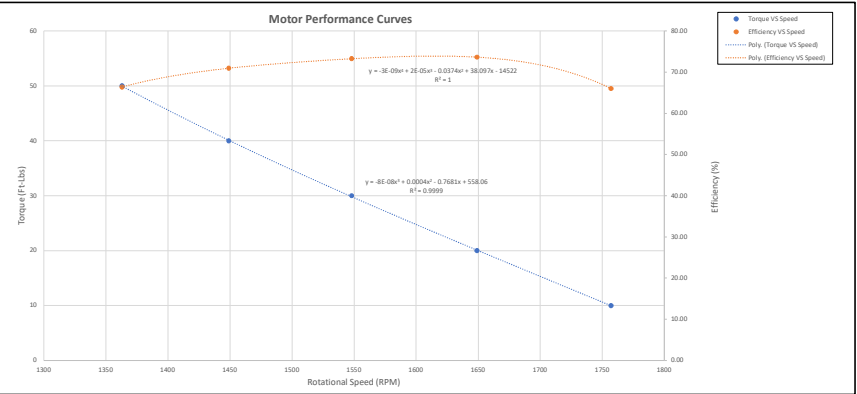


Engineering Performance Test Report

Performance Spec (PS) Number: 7

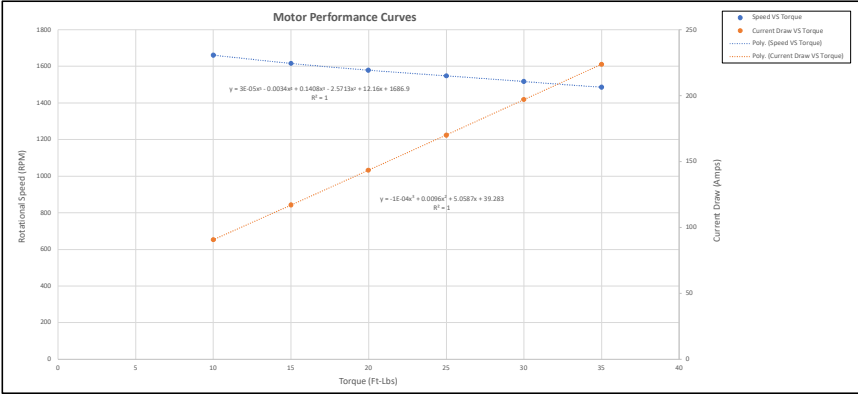
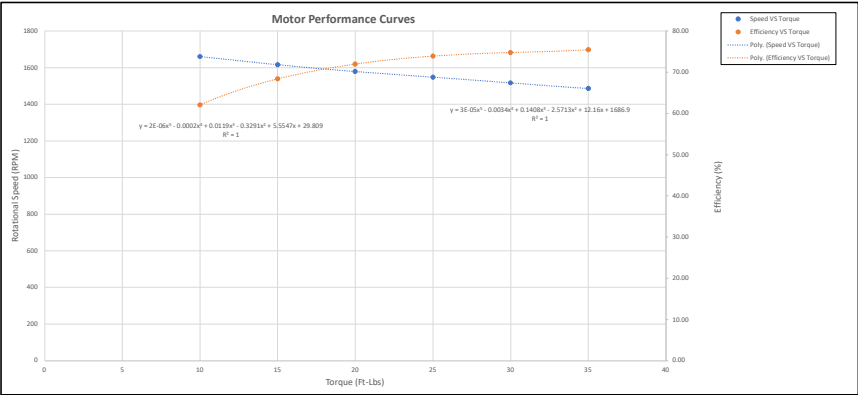
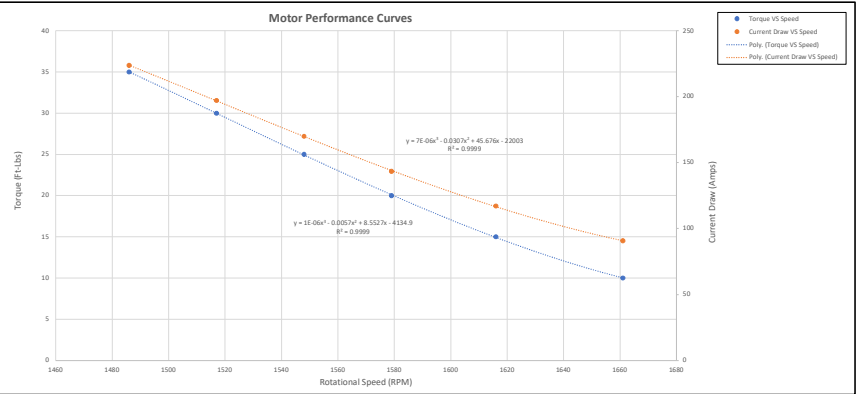
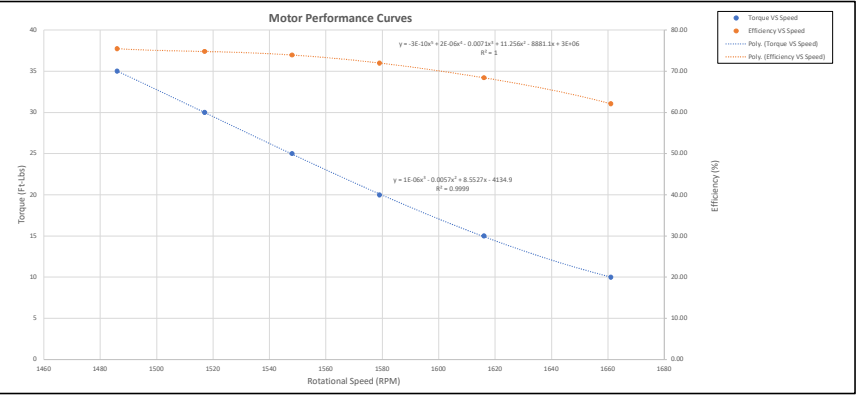
System Voltage (V): 48 - (1 ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
9.99	1757	49	63.6	31.2	24.99	88.59	5.06	3.34	66.01
19.99	1649	44.1	121.2	30.7	24.95	146.15	8.53	6.28	73.62
29.99	1548	45.2	182.5	30.1	24.98	207.48	12.07	8.84	73.24
39.98	1449	46.2	246.6	29.5	24.96	271.56	15.55	11.03	70.93
49.99	1363	47.2	322.4	28.9	25	347.4	19.54	12.97	66.38



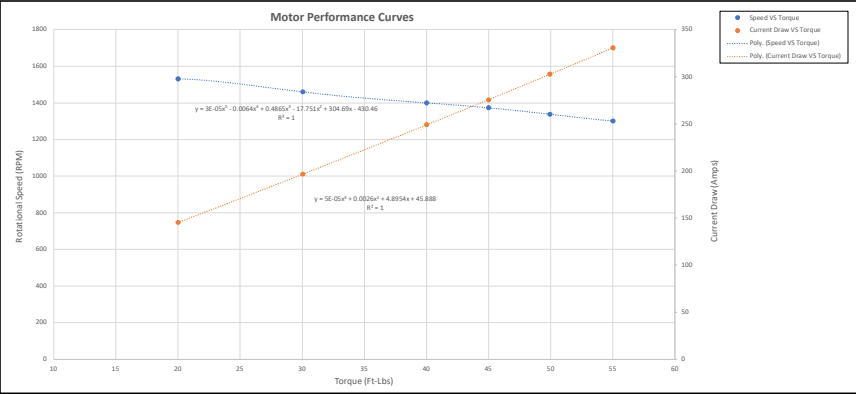
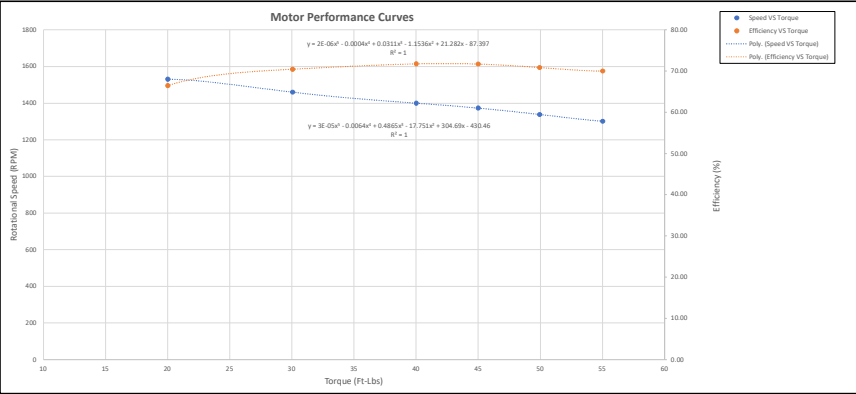
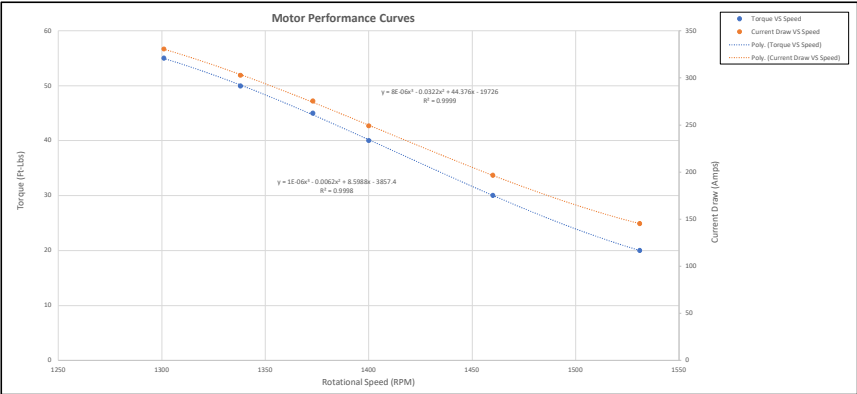
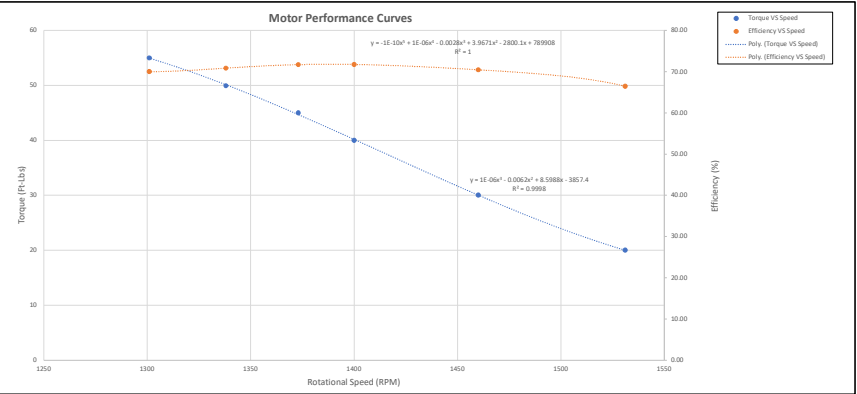
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10	1661	47.1	60.7	31.3	29.99	90.69	5.09	3.16	62.08
15	1616	46.7	87.1	32.2	29.97	117.07	6.74	4.61	68.40
19.98	1579	46.2	113.4	33	29.99	143.39	8.35	6.01	71.98
25	1548	45.9	140	33.9	29.98	169.98	9.97	7.37	73.92
29.99	1517	45.5	167.2	34.8	29.91	197.11	11.58	8.66	74.78
35	1486	45	193.7	35.6	30.04	223.74	13.12	9.9	75.46
40.01	1445	44.6	222.4	36.4	30.07	252.47	14.75	11.01	74.64
42.01	1433	44.4	233.9	37.2	30.11	264.01	15.43	11.46	74.27
45.01	1414	44.2	250.8	38	30.07	280.87	16.39	12.12	73.95



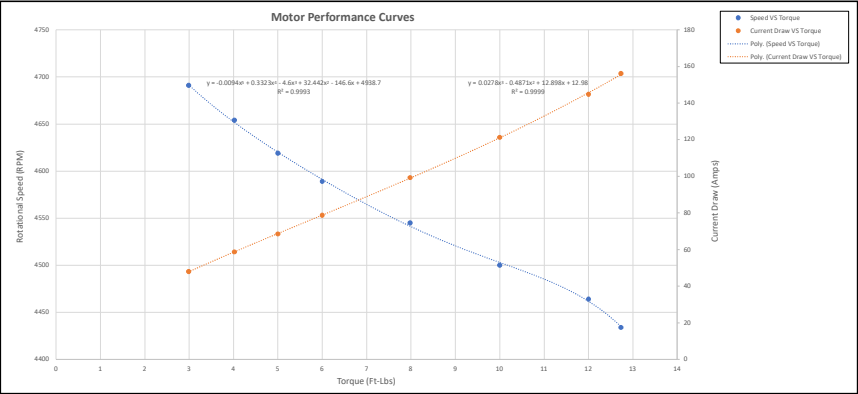
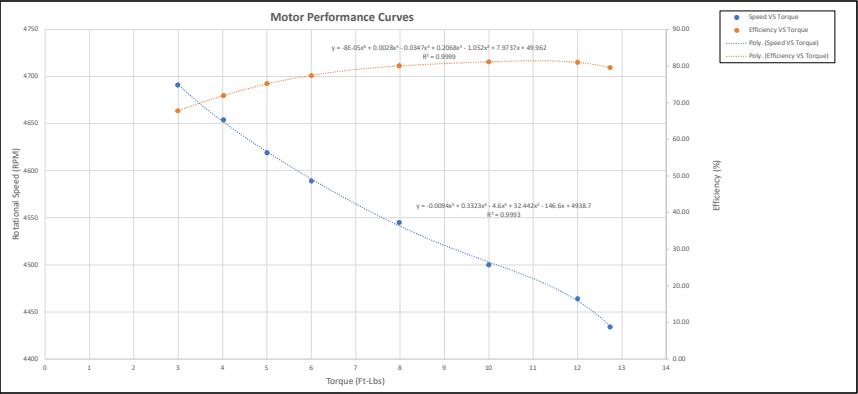
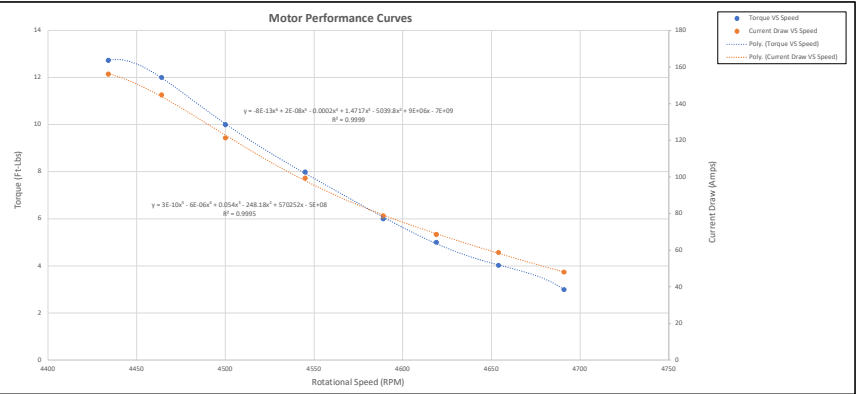
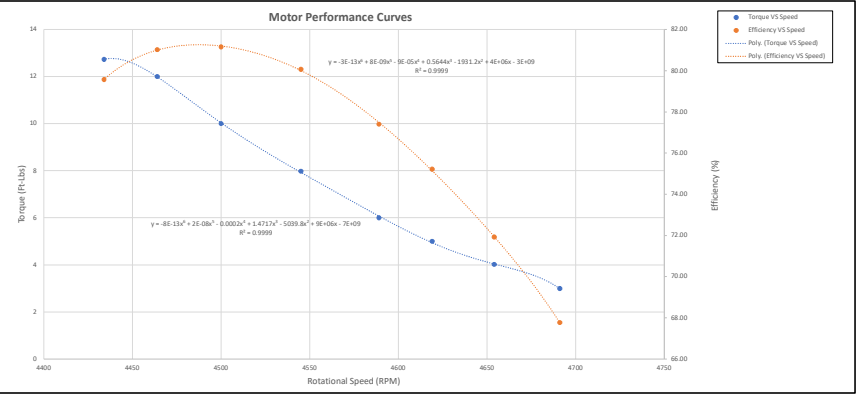
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 48 - 1 * 0.015

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
20.01	1531	46.3	130.2	40.9	35.06	145.26	8.77	5.83	66.48
30.05	1460	45.6	161.6	42.3	34.97	196.57	11.85	8.35	70.46
40.01	1400	44.7	213.9	43.7	35.13	249.03	14.87	10.67	71.76
45	1373	44.3	240.4	45.1	34.94	275.34	16.4	11.76	71.71
49.94	1338	43.9	268	46.5	34.78	302.78	17.95	12.72	70.86
55.01	1301	43.5	296	47.9	34.65	330.65	19.47	13.63	70.01



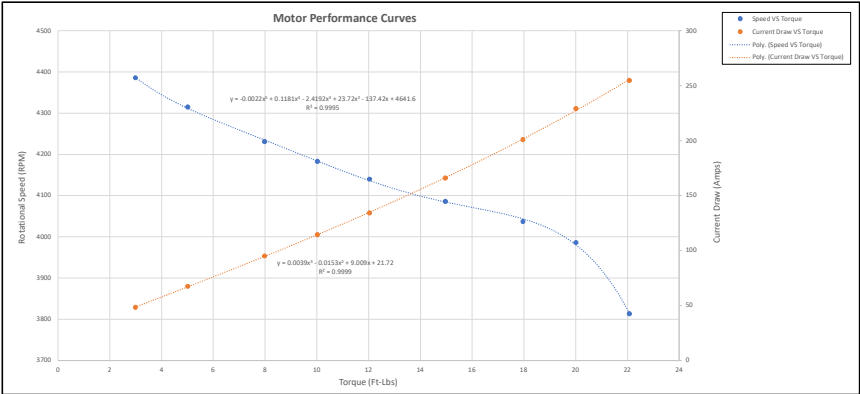
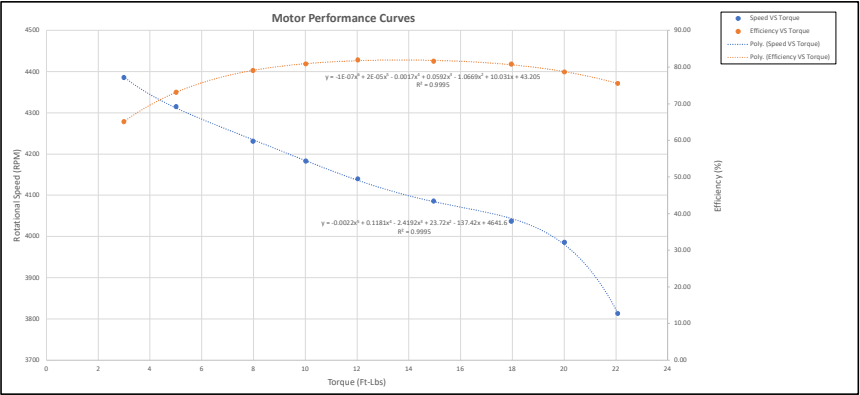
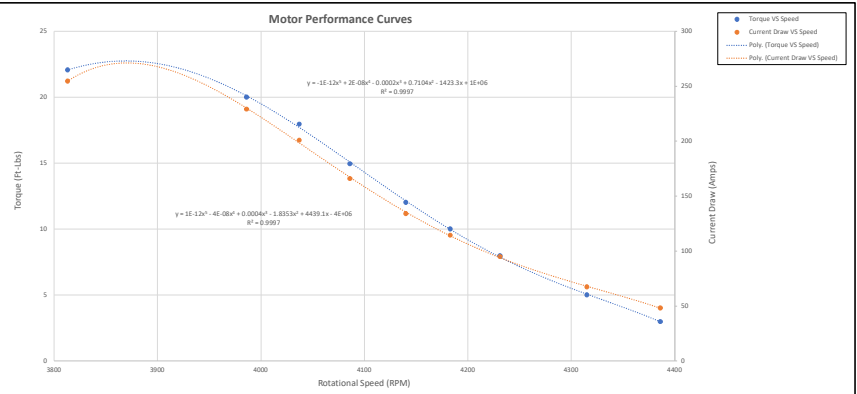
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.99	4691	71.3	40	11.3	8.05	48.05	3.94	2.67	67.77
4.02	4654	70.9	50.7	11.3	8.04	58.74	4.95	3.56	71.92
5	4619	70.6	60.5	11.3	8.04	68.54	5.85	4.4	75.21
6	4589	70.2	70.7	11.3	8.05	78.75	6.77	5.24	77.40
7.98	4545	69.5	91.3	11.3	8.01	99.31	8.63	6.91	80.07
10	4500	68.8	113.2	11.3	8.05	121.25	10.56	8.57	81.16
12	4464	68	136.8	11.3	7.99	144.79	12.59	10.2	81.02
12.73	4434	67.4	148.2	11.4	7.84	156.14	13.51	10.75	79.57



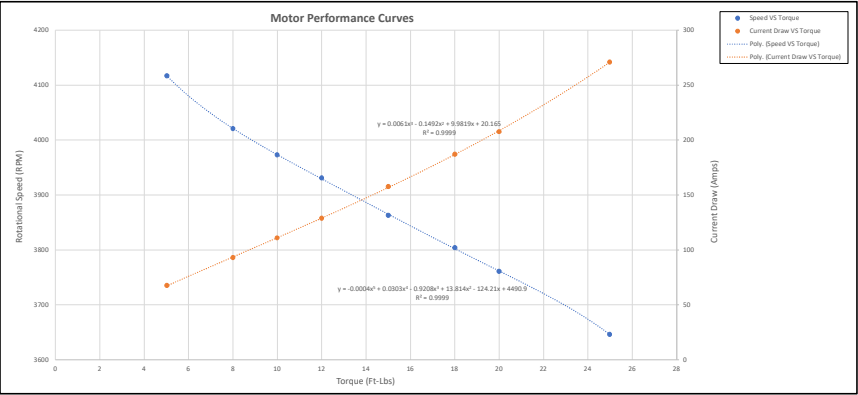
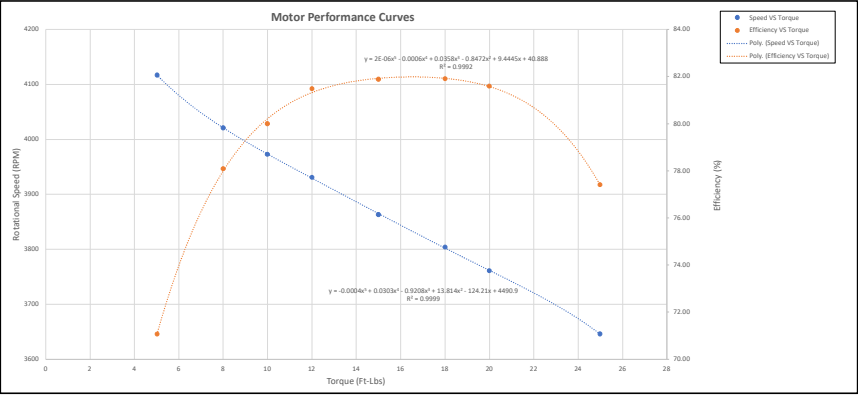
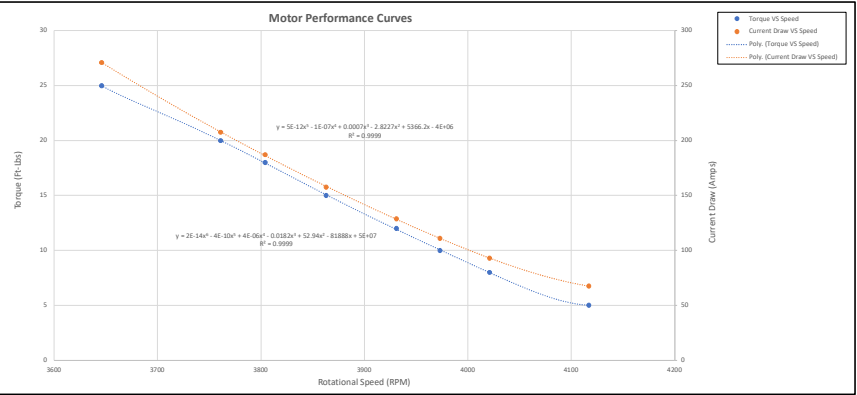
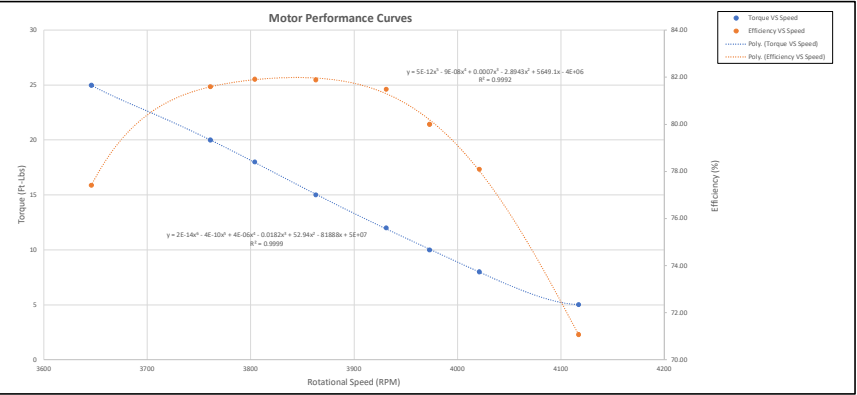
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.99	4386	71.3	38.2	13.9	10.03	48.23	3.84	2.5	65.10
5.01	4315	70.7	37.4	13.9	10.03	47.43	5.62	4.11	73.13
7.98	4231	69.8	34.9	14	10.14	45.04	8.13	6.43	79.09
10.02	4183	69.2	104.4	14	10.05	114.45	9.87	7.98	80.85
12.03	4140	68.4	124.1	14	10.05	134.15	11.57	9.48	81.94
14.96	4096	67.2	156.1	14.1	9.96	166.06	14.26	11.64	81.69
17.96	4037	66.1	190.9	14.1	10.04	200.94	17.09	13.81	80.81
20.01	3986	65.1	219.2	14.2	9.98	229.18	19.31	15.19	78.66
22.07	3813	64.1	244.6	14.2	10.09	254.69	21.21	16.02	75.53



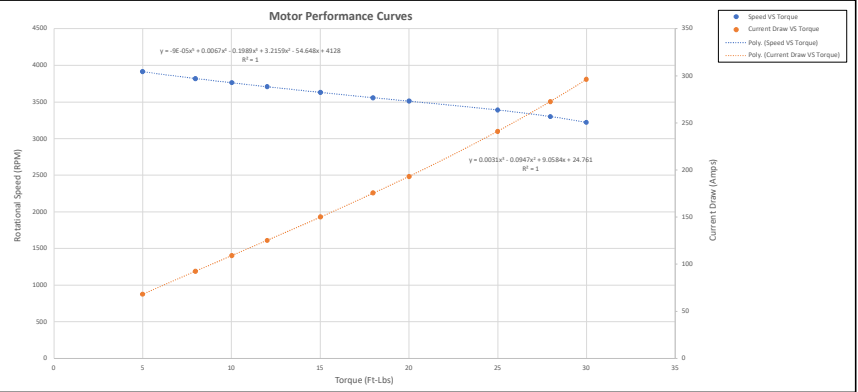
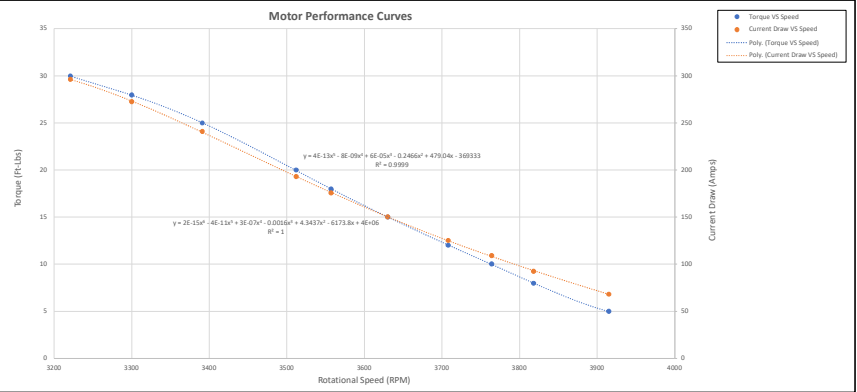
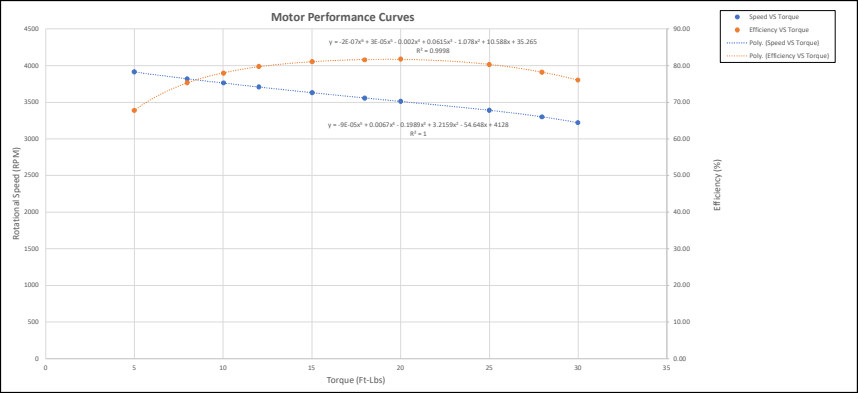
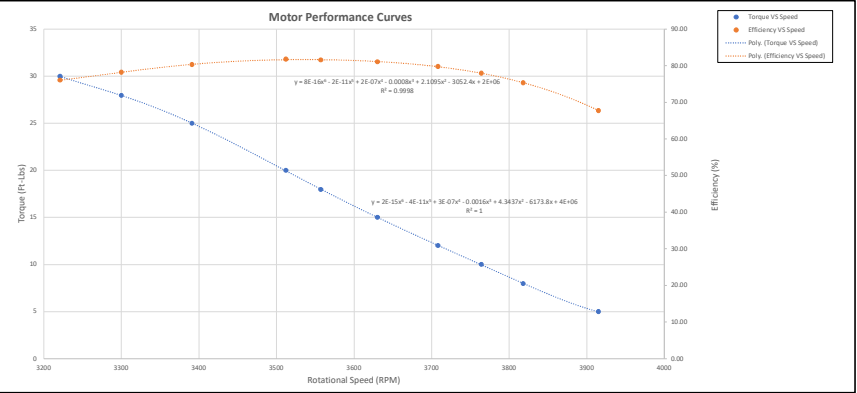
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.02	4117	70.8	55.5	16.2	12.08	67.58	5.53	3.93	71.07
8	4021	69.9	81	16.3	12.03	93.03	7.85	6.13	78.09
9.99	3973	69.3	98.9	16.4	12.02	110.92	9.45	7.56	80.00
12	3931	68.7	116.8	16.5	12.08	128.85	11.02	8.98	81.49
15	3863	67.7	145.5	16.6	12.05	157.6	13.47	11.03	81.89
18	3804	66.7	175	16.6	12.1	187.07	15.92	13.04	81.91
19.99	3761	66	195.5	16.7	12.07	207.56	17.55	14.32	81.60
24.98	3646	63.8	258.9	16.8	12.06	270.96	22.4	17.34	77.41



Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.99	3915	70.9	53.1	22	15.06	68.16	5.49	3.72	67.76
7.97	3818	70	77.3	22.1	15.06	92.35	7.7	5.8	75.32
10.02	3764	69.5	94	22.3	15.1	109.1	9.21	7.18	77.86
12.01	3708	69	110.1	22.4	15.08	125.18	10.63	8.48	79.77
15.01	3630	68.1	135.1	22.6	15.07	150.17	12.79	10.37	81.08
17.97	3557	67.2	160.6	22.7	15.05	175.65	14.92	12.17	81.57
20	3512	66.6	178.1	22.9	14.99	193.09	16.35	13.37	81.77
24.99	3391	64.8	226	23.1	14.95	240.95	20.1	16.14	80.30
27.96	3300	63.7	257.6	23.2	14.93	272.53	22.46	17.57	78.23
29.98	3221	62.9	281.1	23.4	15.02	296.22	24.18	18.39	76.05

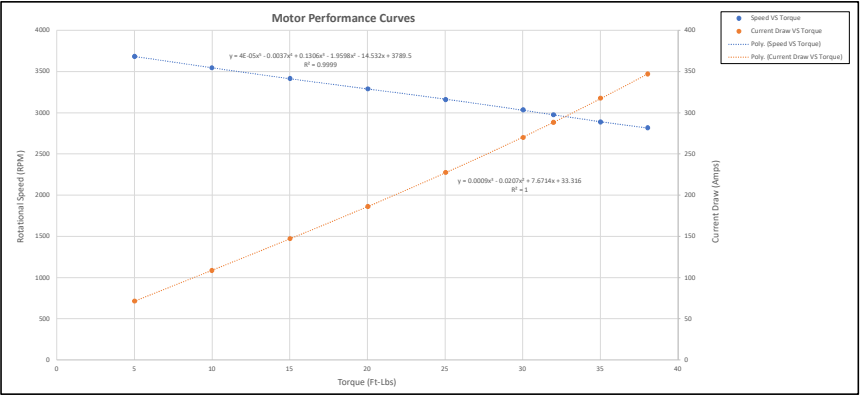
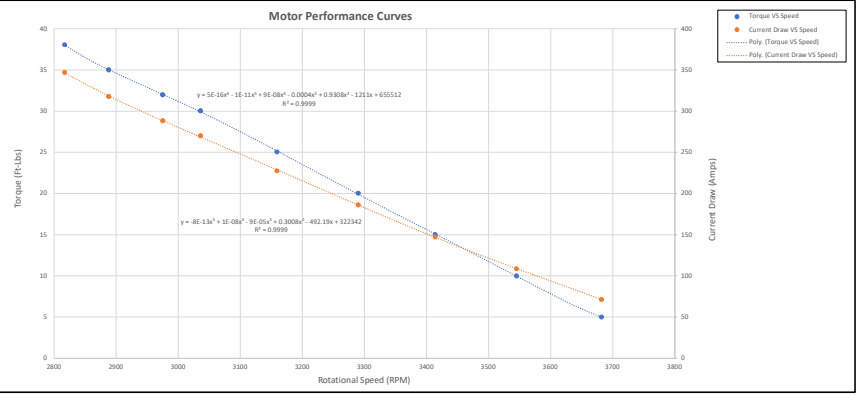
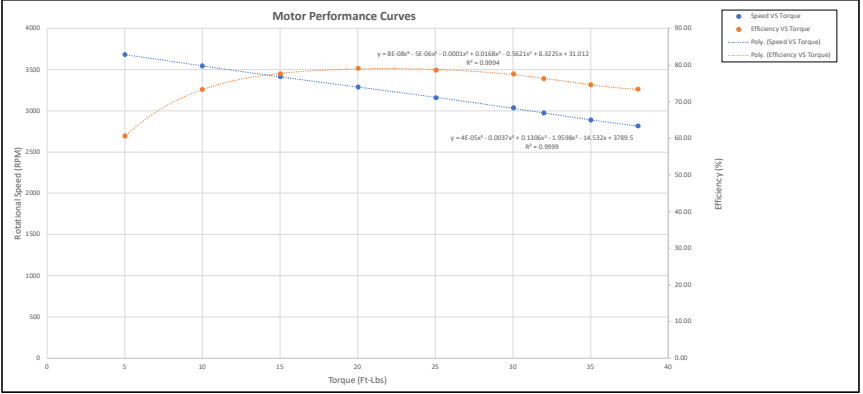
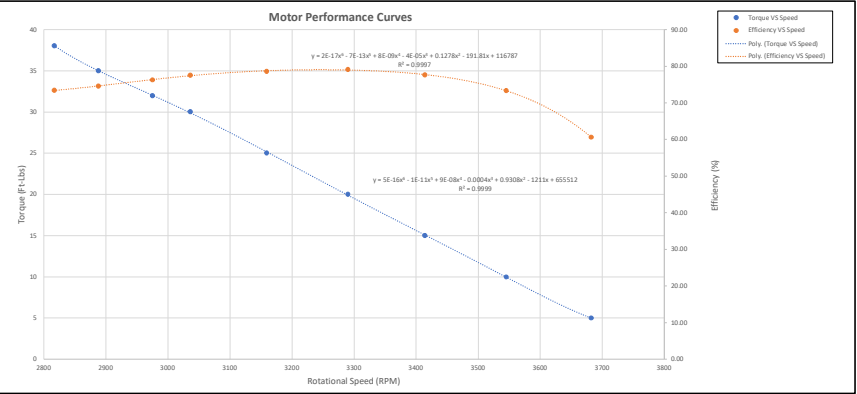


Engineering Performance Test Report

Performance Spec (PS) Number: 7

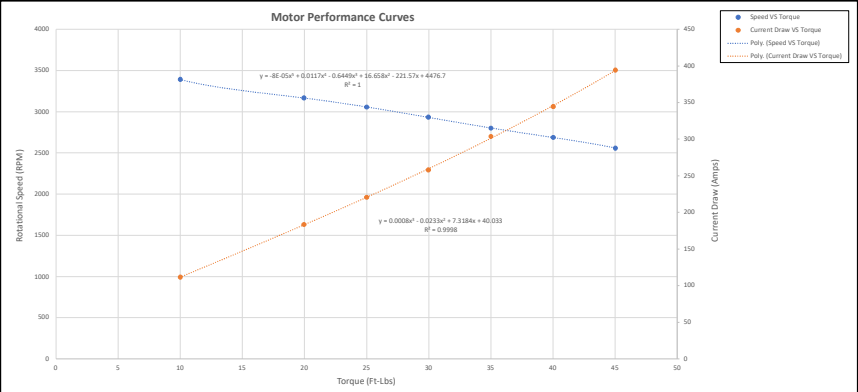
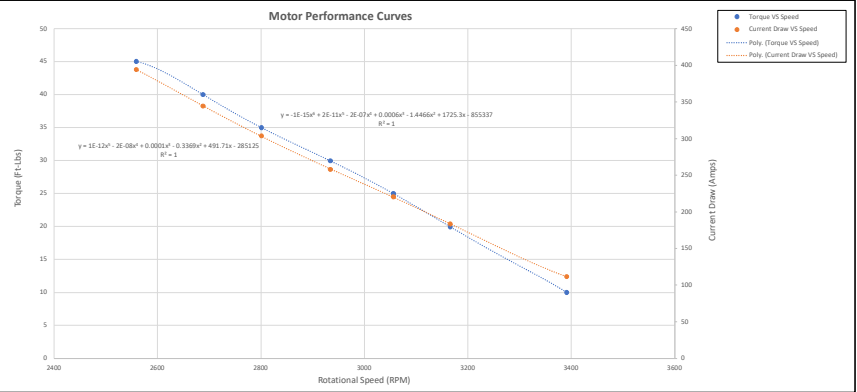
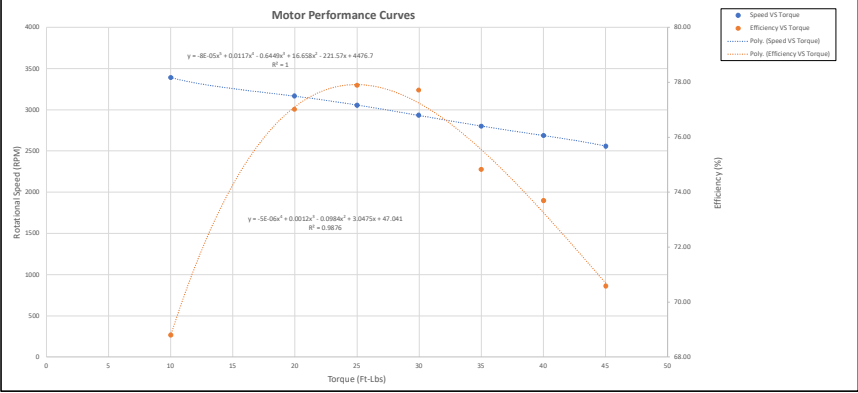
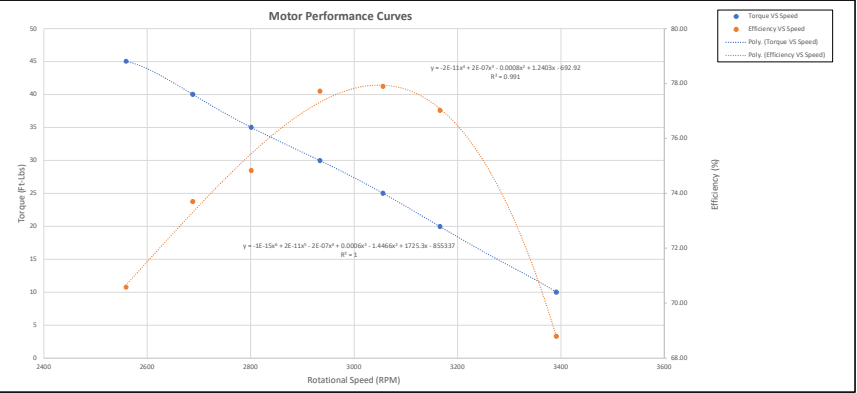
System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.01	3682	70.9	51.3	33.9	20.11	71.41	5.79	3.51	60.62
9.99	3545	69.6	88.5	34.2	20.13	108.63	8.19	6.74	73.34
15.02	3414	68.3	127.1	34.6	20.15	147.25	12.57	9.76	77.65
20.03	3290	67	166.1	34.9	20.1	186.2	15.85	12.54	79.12
25.04	3159	35.5	207.5	35.2	20.04	227.54	19.16	15.06	78.60
30.03	3036	63.9	249.9	35.5	20.09	269.99	22.38	17.36	77.57
31.98	2975	63.3	268.4	35.9	19.9	288.3	23.74	18.11	76.28
35.01	2888	62.2	297.4	36.2	20.33	317.73	25.8	19.25	74.61
38.05	2817	61.2	326.9	36.6	20.12	347.02	27.8	20.41	73.42



Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10	3391	69.7	86.6	38.5	25	111.6	9.39	6.46	68.80
19.96	3166	67.3	158.5	39.6	25.02	183.52	15.62	12.09	77.02
25	3056	66.1	195.6	40.6	24.98	220.58	18.68	14.55	77.89
29.96	2934	64.5	232.8	41.6	25.11	257.91	21.54	16.74	77.72
35	2801	63	278.6	42.6	25.09	303.69	24.95	18.67	74.83
40.01	2688	61.5	319.6	43.6	24.85	344.45	27.79	20.48	73.70
45.02	2559	59.8	369	44.6	25.19	394.19	31.07	21.93	70.58

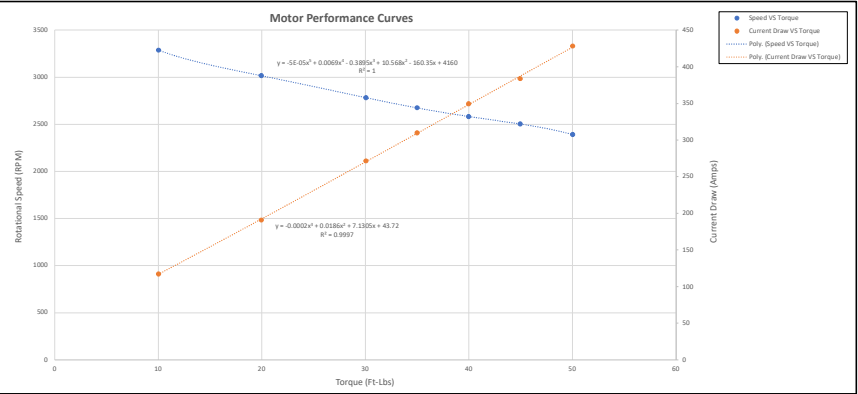
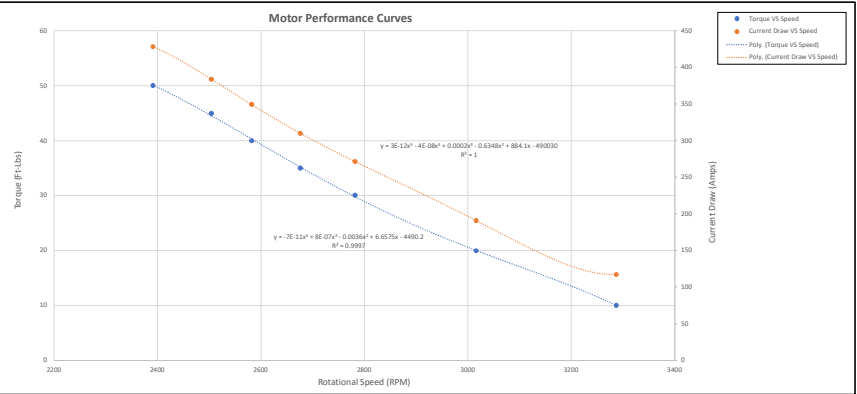
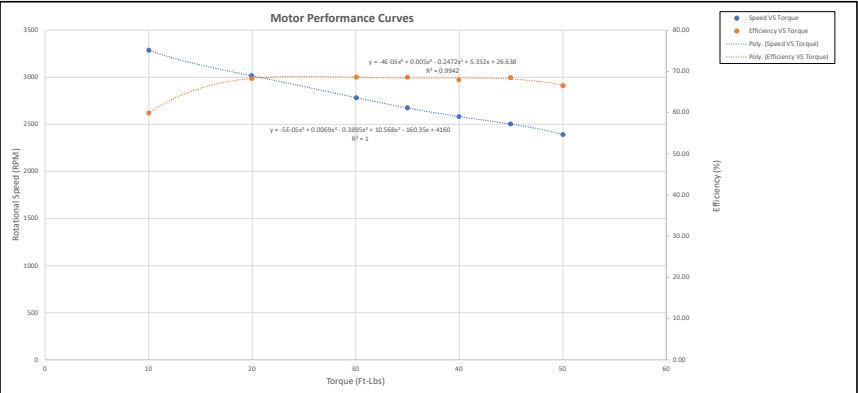
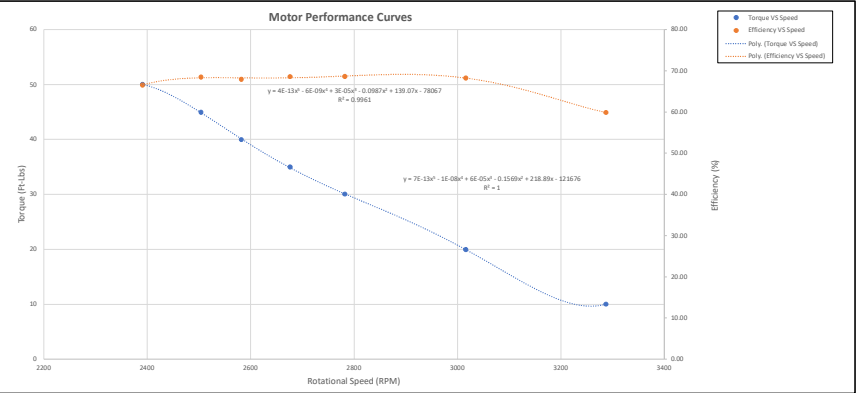


Engineering Performance Test Report

Performance Spec (PS) Number: 7

System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10.02	3287	69.5	87.4	58	29.87	117.27	10.47	6.27	59.89
19.95	3016	66.8	100.3	59.6	29.88	130.28	16.79	11.45	68.24
30.06	2782	64.1	241.6	61.1	29.79	271.39	23.2	15.92	68.62
34.99	2676	62.6	280	62.8	29.81	309.81	26	17.83	68.58
39.97	2582	61.5	319.5	64.4	29.97	349.47	28.92	19.65	67.95
44.95	2504	60.4	354	66.1	29.8	383.8	31.3	21.43	68.47
50.02	2391	59	398.4	67.8	29.95	428.35	34.23	22.78	66.55

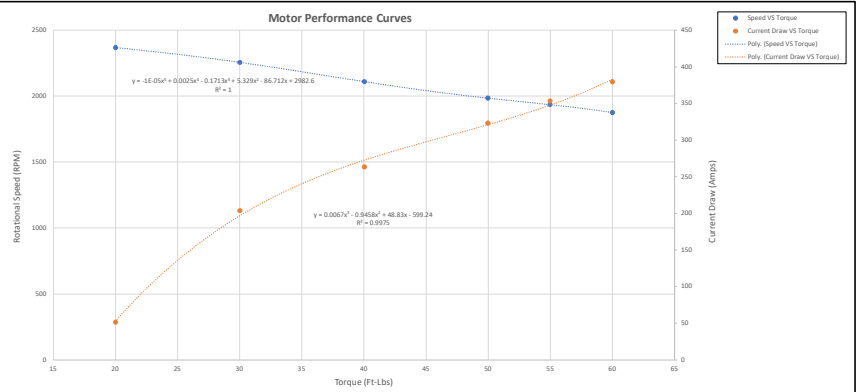
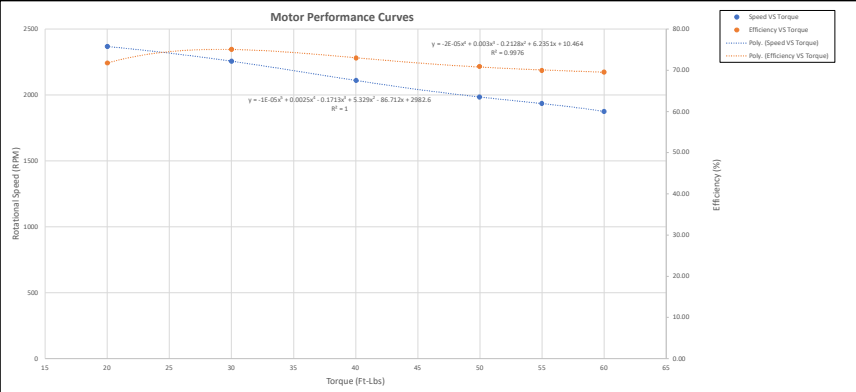
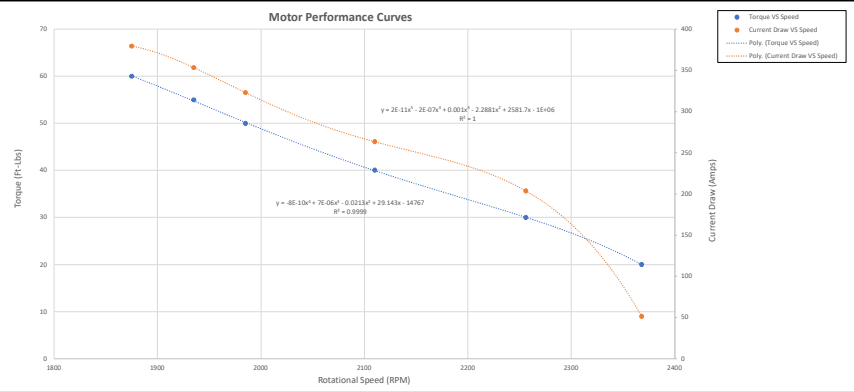
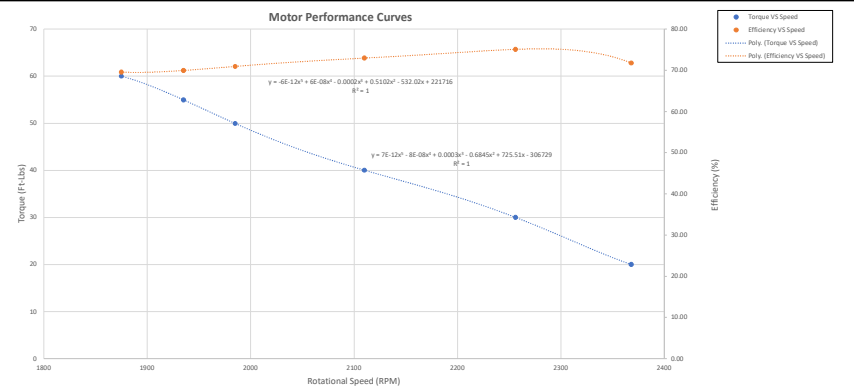


Engineering Performance Test Report

Performance Spec (PS) Number: 7

System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
20.01	2368	68.7	11.3	43.2	40.07	51.37	12.57	9.02	71.76
30.01	2256	67.2	163.2	45.5	39.99	203.99	17.17	12.89	75.07
40.03	2110	65.1	223.3	47.6	40.07	263.37	22.04	16.08	72.86
49.96	1985	63.1	283	49.9	40.06	323.06	26.63	18.89	70.94
54.97	1935	62.3	313.3	52.1	40.03	353.33	28.95	20.25	69.95
59.99	1875	61.3	339.4	54.3	40	379.4	30.8	21.42	69.55

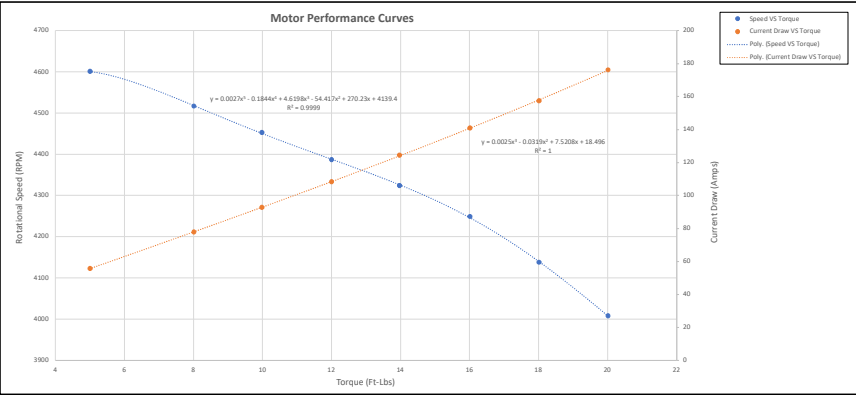
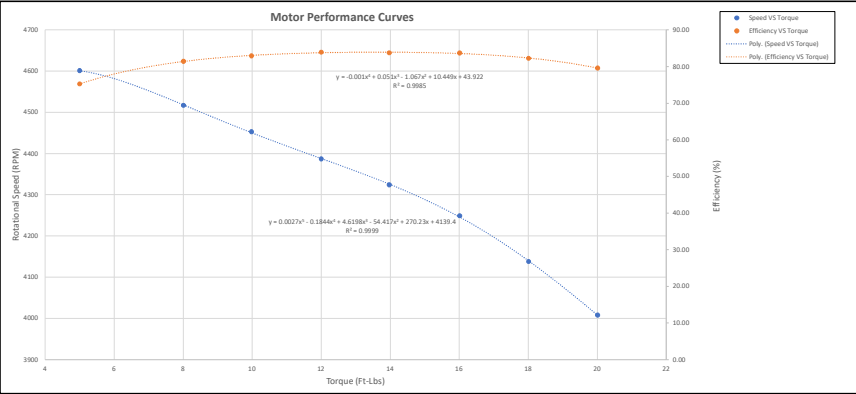
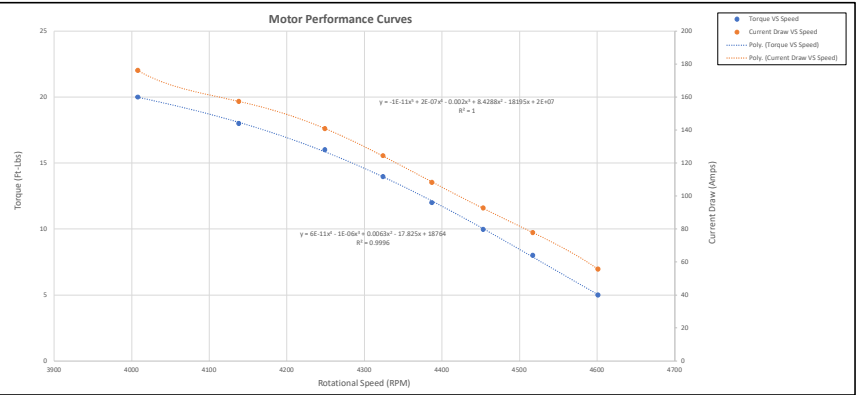
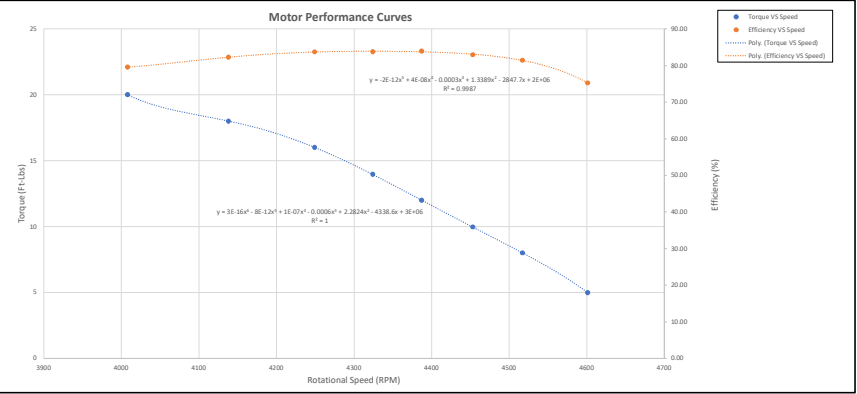


Engineering Performance Test Report

Performance Spec (PS) Number: 7

System Voltage (V): 96 - (1 * 0.060)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5	4601	92.8	45.7	10.4	9.98	55.68	5.82	4.38	75.26
8.01	4512	91.6	47.8	10.4	59.02	77.82	8.46	6.89	81.44
9.98	4453	90.6	82.8	10.4	9.98	92.78	10.2	8.46	82.94
12	4387	89.6	98.3	10.4	10.01	108.31	11.94	10.02	83.92
13.97	4324	88.6	114.5	10.5	9.98	124.48	13.73	11.5	83.76
16.01	4249	87.4	130.9	10.5	10.01	140.91	15.47	12.95	83.71
18.01	4138	86.5	147.5	10.5	9.96	157.46	17.25	14.19	82.26086957
20.01	4008	85.5	166.2	10.5	9.99	176.19	19.19	15.27	79.57269411

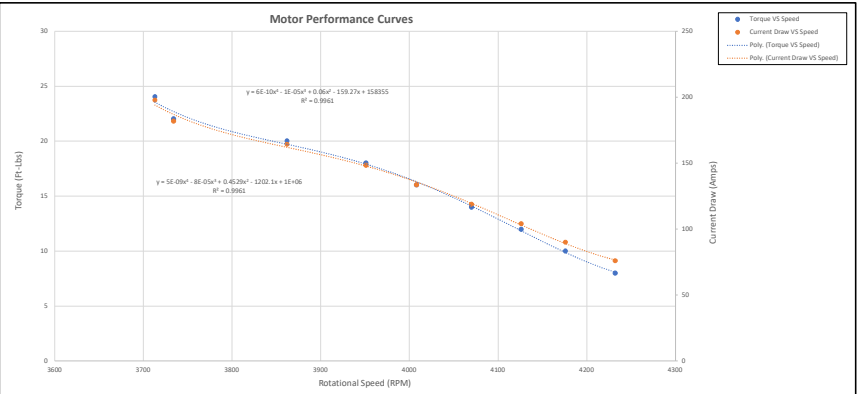
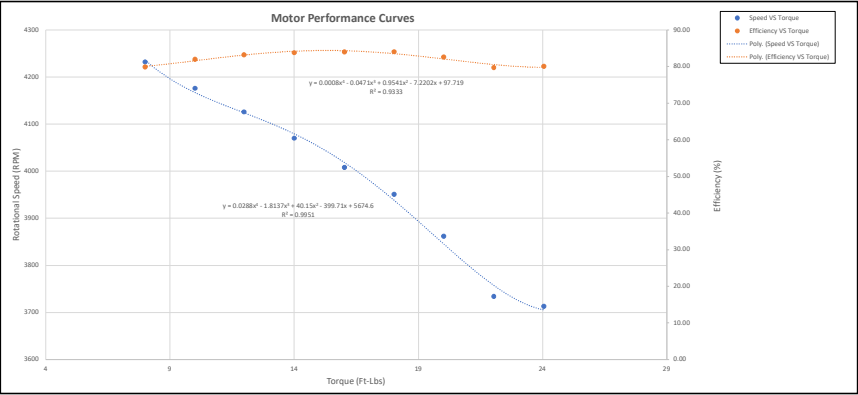
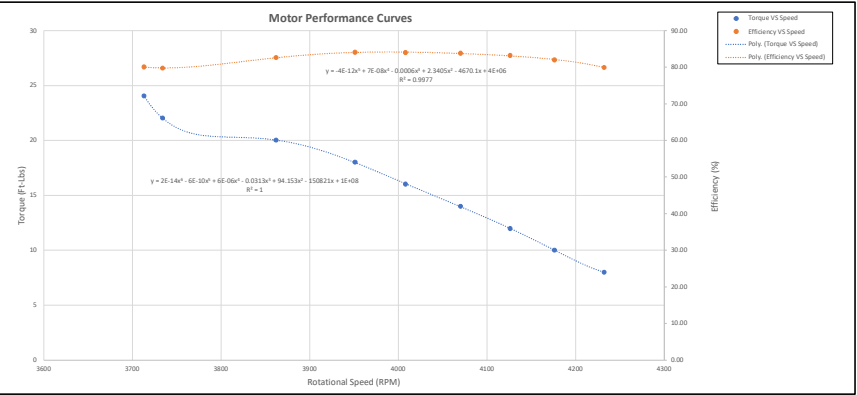


Engineering Performance Test Report

Performance Spec (PS) Number: 7

System Voltage (V): 96 - (1 * 0.060)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
8	4232	91.7	64	12.6	12	76	8.07	6.45	79.93
10.01	4176	90.9	78.1	12.6	12	90.1	9.71	7.59	81.98
11.98	4126	90	92.1	12.6	12.03	104.13	11.31	9.41	83.20
14	4070	89.1	106.7	12.7	12.04	118.74	12.95	10.85	83.78
16.02	4008	88.1	121.6	12.7	12.02	133.62	14.55	12.22	83.99
18.02	3951	87	136.5	12.7	12	148.5	16.13	13.56	84.07
20.02	3862	86.3	152.3	12.8	12.03	164.33	17.82	14.72	82.60
22.03	3734	85.3	169.9	12.8	11.99	181.89	19.64	15.66	79.74
24.05	3713	84.4	185.8	12.8	12.04	197.84	21.23	17	80.08

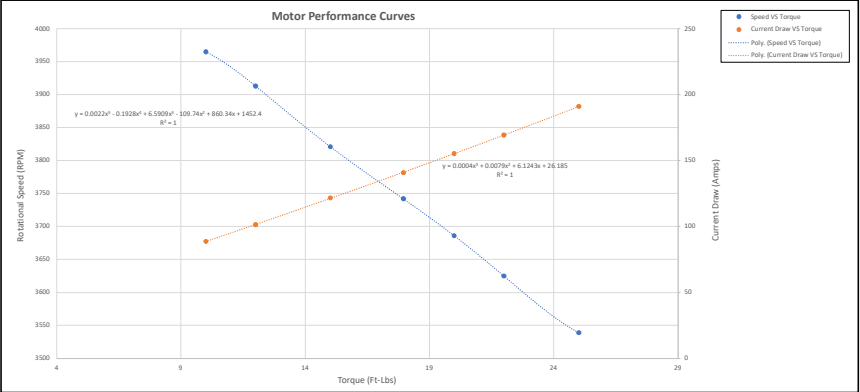
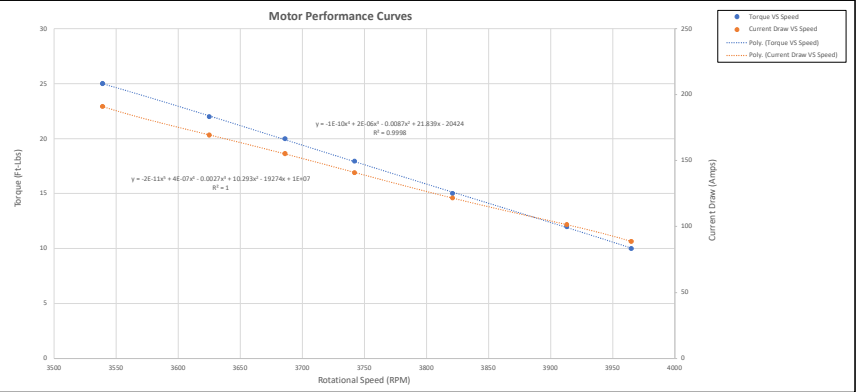
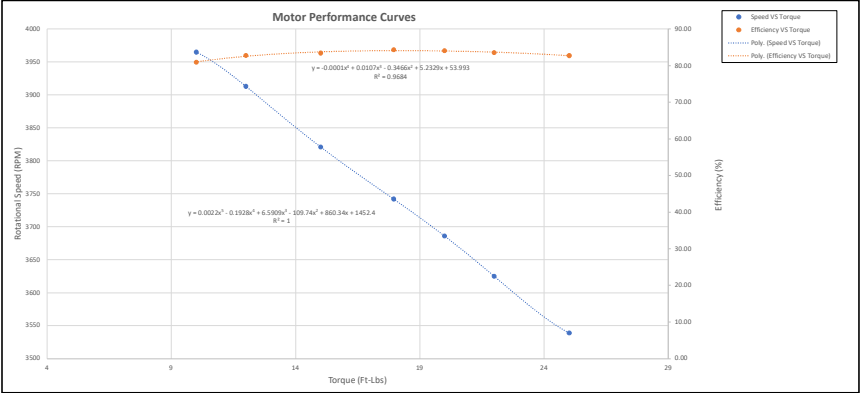
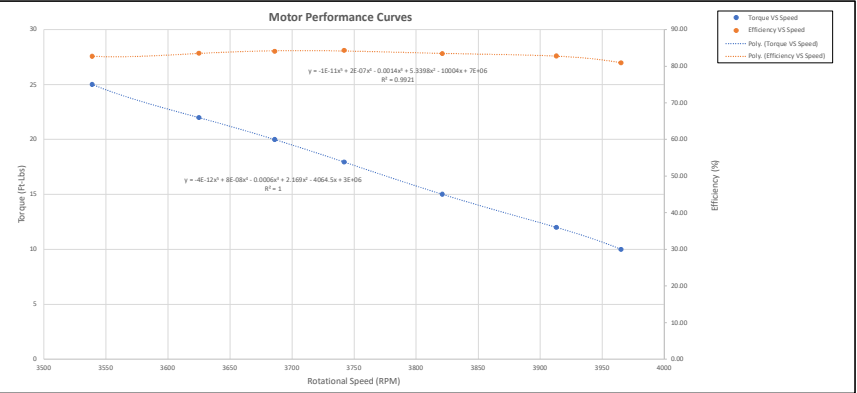


Engineering Performance Test Report

Performance Spec (PS) Number: 7

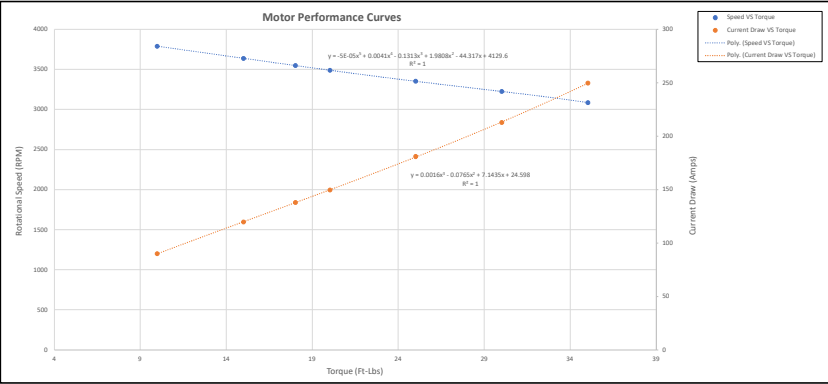
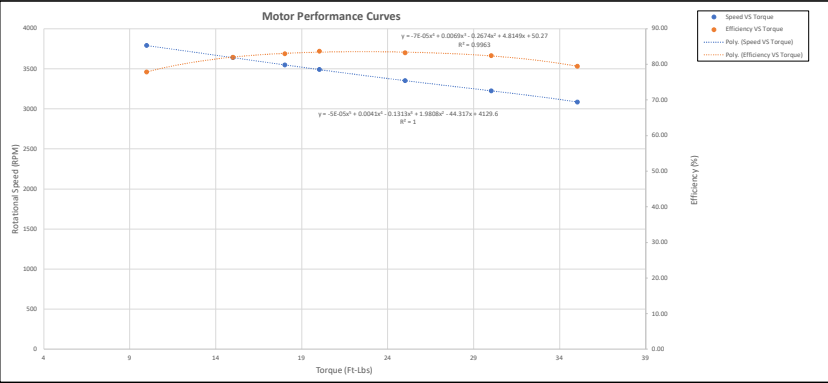
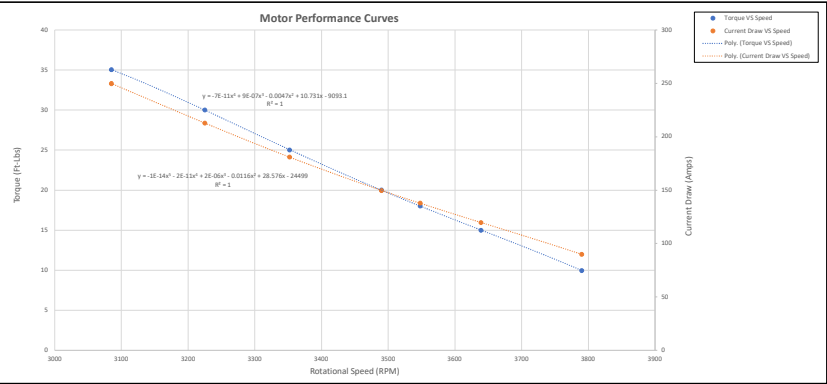
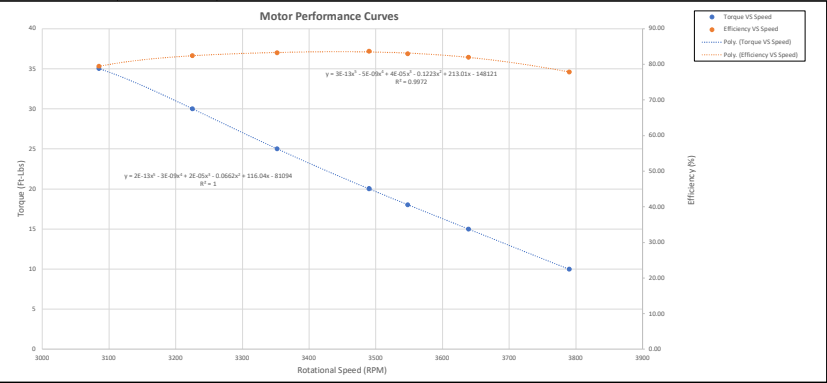
System Voltage (V): 96 - (1 * 0.060)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10	3965	91.2	73.7	16.2	15	88.7	9.33	7.55	80.92
12	3913	90.4	86.4	16.2	14.97	101.37	10.6	8.94	82.78
15.01	3821	89.2	106.7	16.3	15.01	122.71	13.09	10.92	83.42
17.95	3742	88	125.8	16.4	15	140.8	15.17	12.79	84.31
19.99	3686	87	140.3	16.5	14.99	155.29	16.69	14.03	84.06
21.99	3625	86.2	154.4	16.5	15	169.4	18.16	15.17	83.54
25.01	3539	85	176	16.6	15.04	191.04	20.37	16.85	82.72



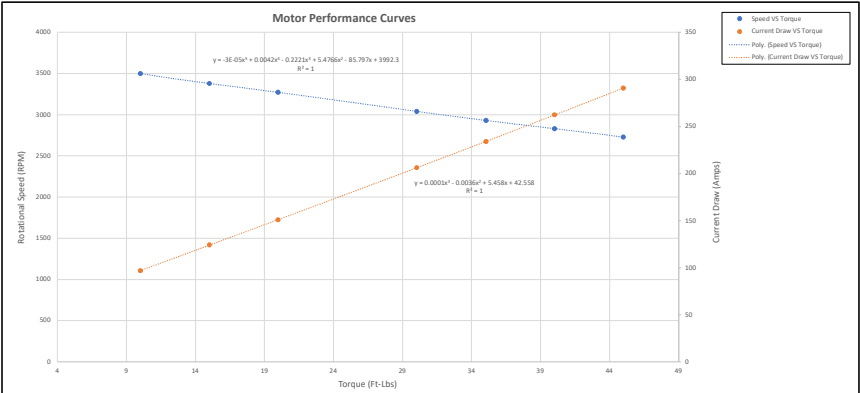
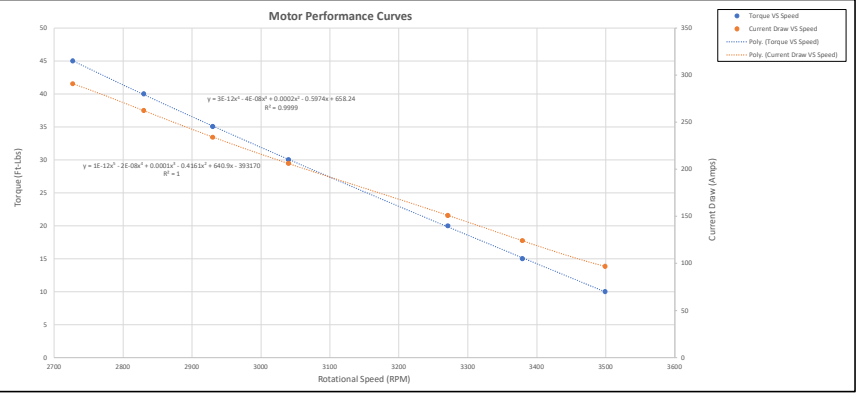
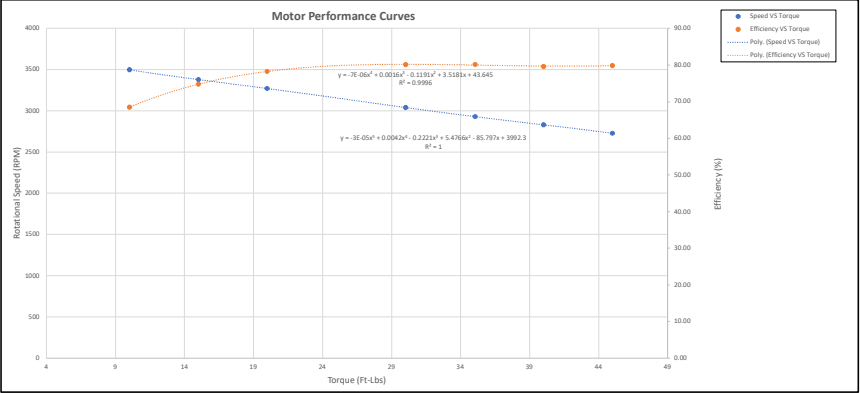
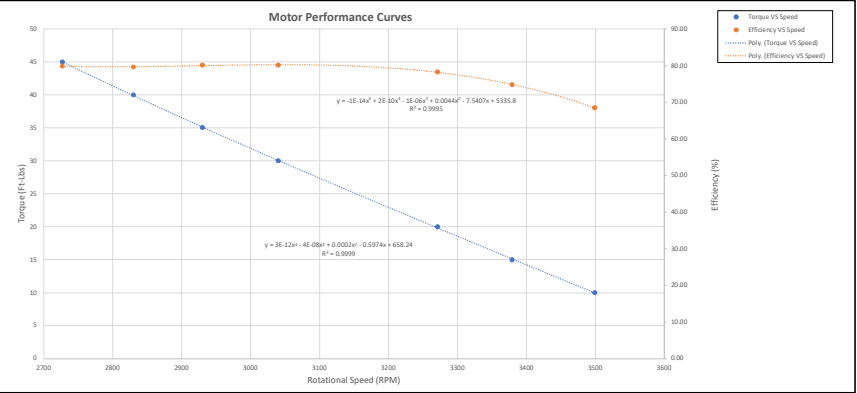
Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 96 (1" 0.060)

Torque (ft-lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Real Current (Amps)	Speed (ft/min)	Power Out (Horsepower)	Efficiency (%)
9.98	3790	91.4	69.9	25.7	20.04	89.94	9.26	7.21	77.86
15	3639	89.6	69.7	25.7	20.02	118.72	12.67	10.39	82.00
18.02	3548	88.4	117.9	25.7	20.02	137.92	14.67	12.17	82.96
20.03	3490	87.6	129.6	25.8	20.02	149.62	15.91	13.31	83.66
25.01	3352	85.7	161	25.8	20	181	19.18	15.97	83.26
30.02	3225	83.9	192.8	25.9	19.99	212.79	22.37	18.44	82.43
35.03	3085	81.9	229.7	26	20.09	249.79	25.9	20.57	79.42



Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 96 - (1 * 0.060)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10.01	3499	91.6	67.1	37.6	29.78	96.88	9.74	6.67	68.48
15.01	3379	89.9	84.4	38.2	29.8	124.2	12.9	9.65	74.81
19.98	3271	88.4	121.1	38.8	29.81	150.91	15.9	12.44	78.34
30.02	3040	85	176.5	39.5	29.72	206.22	21.68	17.37	80.12
35.05	2930	83.3	204.2	40.1	29.74	233.94	24.39	19.55	80.16
40.01	2830	81.6	232.6	40.7	29.8	262.4	27.08	21.56	79.62
44.99	2727	79.9	261	41.3	29.75	290.75	29.59	23.63	79.86



Engineering Performance Test Report
Performance Spec (PS) Number: 7
System Voltage (V): 96 - (1 * 0.060)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amperes)	Field Voltage (Volts)	Field Current (Amperes)	Total Current (Amperes)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10	3372	91.6	67.2	54.6	39.88	107.08	11.17	6.42	57.48
14.99	3265	90.1	91.8	52.6	39.83	131.63	13.89	9.32	67.10
20	3158	88.7	116	50.5	39.86	155.90	16.42	12.03	73.00
30.07	2950	85.8	166.7	48.4	39.86	206.56	21.75	16.89	77.66
40.02	2744	82.6	217.3	46.2	39.87	257.17	26.53	20.91	78.82
50	2509	78.8	280.5	44	39.85	320.35	31.99	23.88	74.65

