

**Results from 3 batches****Batch 1**

EXP NR	API conc, %w/w	Impeller speed, rpm	Chopper speed, rpm	Time, minutes	BATCH 1 results- Assay, %m/m (sampling points 1-7)								
					SP1	SP2	SP3	SP4	SP5	SP6	SP7		
1	0.2	50	1000	0.5	0.194	0.558	0.357	0.217	0.123	0.191	0.24	Sample 1 taken	
					0.195	0.558	0.358	0.218	0.124	0.192	0.24	Sample 2 taken	
					0.195	0.558	0.358	0.218	0.124	0.192	0.24	Average of 2 samples injected	
					0	0	0	0	0	0	0	STD for 2 samples	
					0.11	0.05	0.25	0.05	0.23	0.24	0.01	% RSD for 2 samples	
												0.27%	<b>Average of 7 samples for experiment</b>
												0.15%	<b>STD for 7 samples</b>
							54.09%	<b>% RSD for 7 samples</b>					
2	0.2	200	2800	3.5	0.198	0.204	0.205	0.212	0.2	0.199	0.196	Sample 1 taken	
					0.198	0.205	0.205	0.212	0.199	0.198	0.196	Sample 2 taken	
					0.198	0.204	0.205	0.212	0.2	0.198	0.196	Average of 2 samples injected	
					0	0	0	0	0	0	0	STD for 2 samples	
					0.09	0.08	0.04	0.04	0.39	0.33	0.11	% RSD for 2 samples	
												0.20%	<b>Average of 7 samples for experiment</b>
												0.01%	<b>STD for 7 samples</b>
							2.75%	<b>% RSD for 7 samples</b>					
3	0.2	200	1000	0.5	0.14	0.14	0.12	0.2	0.13	0.11	0.12	Sample 1 taken	
					0.14	0.14	0.12	0.2	0.13	0.1	0.12	Sample 2 taken	
					0.14	0.14	0.12	0.2	0.13	0.11	0.12	Average of 2 samples injected	
					0	0	0	0	0	0.01	0	STD for 2 samples	
					0	0	0	0	0	6.73	0	% RSD for 2 samples	

Appendix C

												0.14%	<b>Average of 7 samples for experiment</b>
												0.03	<b>STD for 7 samples</b>
												21.76%	<b>% RSD for 7 samples</b>
<b>4</b>	10.1	125	1900	2	9.94	9.78	9.84	10.2	9.75	9.47	10.1		Sample 1 taken
					9.95	9.79	9.85	10.19	9.75	9.48	10.1		Sample 2 taken
					9.94	9.78	9.85	10.19	9.75	9.48	10.1		Average of 2 samples injected
					0.01	0.01	0.01	0.01	0	0.01	0		STD for 2 samples
					0.07	0.07	0.07	0.07	0	0.07	0		% RSD for 2 samples
												9.87%	<b>Average of 7 samples for experiment</b>
												0.24	<b>STD for 7 samples</b>
												2.39%	<b>% RSD for 7 samples</b>
<b>5</b>	20	200	1000	3.5	19.01	19.57	19.63	19.23	20.36	19.88	19.35		Sample 1 taken
					19.01	19.58	19.62	19.23	20.34	19.91	19.35		Sample 2 taken
					19.01	19.57	19.62	19.23	20.35	19.9	19.35		Average of 2 samples injected
					0	0.01	0.01	0	0.01	0.02	0		STD for 2 samples
					0	0.04	0.04	0	0.07	0.11	0		% RSD for 2 samples
												19.58%	<b>Average of 7 samples for experiment</b>
												0.45	<b>STD for 7 samples</b>
												2.28%	<b>% RSD for 7 samples</b>
<b>6</b>	10.1	125	1900	2	9.66	10.12	10.09	10.45	9.74	9.8	9		Sample 1 taken
					9.67	10.12	10.08	10.45	9.75	9.79	8.99		Sample 2 taken
					9.66	10.12	10.09	10.45	9.75	9.79	8.99		Average of 2 samples injected
					0.01	0	0.01	0	0.01	0.01	0.01		STD for 2 samples
					0.07	0	0.07	0	0.07	0.07	0.08		% RSD for 2 samples
												9.84%	<b>Average of 7 samples for experiment</b>
												0.46	<b>STD for 7 samples</b>
												4.69%	<b>% RSD for 7 samples</b>

Appendix C

<b>7</b>	0.2	200	2800	0.5	0.17	0.23	0.13	0.13	0.16	0.11	0.13		Sample 1 taken
					0.17	0.23	0.14	0.13	0.16	0.11	0.13		Sample 2 taken
					0.17	0.23	0.14	0.13	0.16	0.11	0.13		Average of 2 samples injected
					0	0	0.01	0	0	0	0		STD for 2 samples
					0	0	5.24	0	0	0	0		% RSD for 2 samples
												0.15%	<b>Average of 7 samples for experiment</b>
												0.04	<b>STD for 7 samples</b>
												25.82%	<b>% RSD for 7 samples</b>
<b>8</b>	20	50	2800	3.5	20.67	19.87	20.37	20.19	20.55	20.49	20.07		Sample 1 taken
					20.67	19.86	20.37	20.18	20.58	20.5	20.09		Sample 2 taken
					20.67	19.86	20.37	20.19	20.57	20.5	20.08		Average of 2 samples injected
					0	0.01	0	0.01	0.02	0.01	0.01		STD for 2 samples
					0	0.04	0	0.04	0.1	0.03	0.07		% RSD for 2 samples
												20.32%	<b>Average of 7 samples for experiment</b>
												0.29	<b>STD for 7 samples</b>
												1.43%	<b>% RSD for 7 samples</b>
<b>9</b>	0.2	50	2800	3.5	0.21	0.22	0.23	0.21	0.18	0.18	0.2		Sample 1 taken
					0.2	0.22	0.23	0.2	0.19	0.18	0.2		Sample 2 taken
					0.2	0.22	0.23	0.2	0.19	0.18	0.2		Average of 2 samples injected
					0.01	0	0	0.01	0.01	0	0		STD for 2 samples
					3.45	0	0	3.45	3.82	0	0		% RSD for 2 samples
												0.20%	<b>Average of 7 samples for experiment</b>
												0.02	<b>STD for 7 samples</b>
												8.40%	<b>% RSD for 7 samples</b>
<b>10</b>	0.2	50	1000	3.5	0.31	0.13	0.13	0.16	0.16	0.15	0.08		Sample 1 taken
					0.31	0.13	0.13	0.16	0.16	0.15	0.08		Sample 2 taken
					0.31	0.13	0.13	0.16	0.16	0.15	0.08		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples

Appendix C

					0	0	0	0	0	0	0		% RSD for 2 samples
												0.16%	<b>Average of 7 samples for experiment</b>
												0.07	<b>STD for 7 samples</b>
												44.78%	<b>% RSD for 7 samples</b>
<b>11</b>	20	200	2800	0.5	19.41	19.45	18.92	19.3	19.08	19.21	18.04		Sample 1 taken
					19.41	19.46	18.91	19.29	19.06	19.21	18.06		Sample 2 taken
					19.41	19.46	18.91	19.29	19.07	19.21	18.05		Average of 2 samples injected
					0	0.01	0.01	0.01	0.01	0	0.01		STD for 2 samples
					0	0.04	0.04	0.04	0.07	0	0.08		% RSD for 2 samples
												19.06%	<b>Average of 7 samples for experiment</b>
												0.48	<b>STD for 7 samples</b>
												2.54%	<b>% RSD for 7 samples</b>
<b>12</b>	20	200	1000	3.5	19.52	19.04	19.84	19.3	20.12	18.99	19.61		Sample 1 taken
					19.52	19.05	19.85	19.32	20.1	19.01	19.61		Sample 2 taken
					19.52	19.04	19.85	19.31	20.11	19	19.61		Average of 2 samples injected
					0	0.01	0.01	0.01	0.01	0.01	0		STD for 2 samples
					0	0.04	0.04	0.07	0.07	0.07	0		% RSD for 2 samples
												19.49%	<b>Average of 7 samples for experiment</b>
												0.41	<b>STD for 7 samples</b>
												2.10%	<b>% RSD for 7 samples</b>
<b>13</b>	20	50	1000	0.5	42.77	41.42	46.34	11.85	37.64	31.33	74.79		Sample 1 taken
					42.76	41.53	46.4	11.84	37.75	31.39	74.82		Sample 2 taken
					42.77	41.48	46.37	11.84	37.69	31.36	74.8		Average of 2 samples injected
					0.01	0.08	0.04	0.01	0.08	0.04	0.02		STD for 2 samples
					0.02	0.19	0.09	0.06	0.21	0.14	0.03		% RSD for 2 samples
												40.90%	<b>Average of 7 samples for experiment</b>
												18.84	<b>STD for 7 samples</b>

Appendix C

												46.05%	<b>% RSD for 7 samples</b>
<b>14</b>	20	50	2800	0.5	28.07	29.33	29.64	28.04	26.59	29.09	81.2		Sample 1 taken
					28.1	29.3	29.58	28.06	26.6	29.1	80.98		Sample 2 taken
					28.09	29.32	29.61	28.05	26.59	29.09	81.09		Average of 2 samples injected
					0.02	0.02	0.04	0.01	0.01	0.01	0.16		STD for 2 samples
					0.08	0.07	0.14	0.05	0.03	0.02	0.19		% RSD for 2 samples
												35.98%	<b>Average of 7 samples for experiment</b>
												19.92	<b>STD for 7 samples</b>
												55.37%	<b>% RSD for 7 samples</b>

Appendix C

**Batch 2**

EXP NR	API conc, %w/w	Impeller speed, rpm	Chopper speed, rpm	Time, minutes	BATCH 1 results- Assay, %m/m (sampling points 1-7)								
					SP1	SP2	SP3	SP4	SP5	SP6	SP7		
1	0.2	50	1000	0.5	0.18419	0.12842	0.09757	0.15829	0.11883	0.6461	0.65864	Sample 1 taken	
					0.18343	0.12793	0.09731	0.15852	0.11858	0.64553	0.65865	Sample 2 taken	
					0.18381	0.12818	0.09744	0.15841	0.11871	0.64581	0.65865	Average of 2 samples injected	
					0	0	0	0	0	0	0	STD for 2 samples	
					0.29	0.27	0.19	0.10	0.15	0.06	0	% RSD for 2 samples	
											0.28	<b>Average of 7 samples for experiment</b>	
											0.25	<b>STD for 7 samples</b>	
											88.88%	<b>% RSD for 7 samples</b>	
2	0.2	200	2800	3.5	0.20799	0.20439	0.20362	0.20365	0.2038	0.20594	0.20428	Sample 1 taken	
					0.20681	0.20472	0.20403	0.20403	0.20381	0.20493	0.20431	Sample 2 taken	
					0.2074	0.20455	0.20382	0.20384	0.2038	0.20543	0.20429	Average of 2 samples injected	
					0	0	0	0	0	0	0	STD for 2 samples	
					0.4	0.11	0.14	0.13	0	0.35	0.01	% RSD for 2 samples	
											0.204733	<b>Average of 7 samples for experiment</b>	
											0.001312	<b>STD for 7 samples</b>	
											0.64	<b>% RSD for 7 samples</b>	
3	0.2	200	1000	0.5	0.1507	0.13033	0.13613	0.09054	0.34853	0.12351	0.24237	Sample 1 taken	
					0.15079	0.13019	0.1363	0.09018	0.34786	0.12345	0.24247	Sample 2 taken	
					0.15074	0.13026	0.13622	0.09036	0.3482	0.12348	0.24242	Average of 2 samples injected	
					0	0	0	0	0	0	0	STD for 2 samples	
					0.04	0.08	0.09	0.28	0.14	0.03	0.03	% RSD for 2 samples	
											0.17	<b>Average of 7 samples for experiment</b>	

Appendix C

												0.09	<b>STD for 7 samples</b>
												51.49%	<b>% RSD for 7 samples</b>
<b>4</b>	10.1	125	1900	2	10.40637	10.75787	10.04681	11.25349	10.06452	10.32763	9.88058		Sample 1 taken
					10.40647	10.75603	10.04052	11.25651	10.0631	10.33919	9.88003		Sample 2 taken
					10.40642	10.75695	10.04366	11.255	10.06381	10.33341	9.8803		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0	0.01	0.04	0.02	0.01	0.08	0		% RSD for 2 samples
												10.39%	<b>Average of 7 samples for experiment</b>
												0.48	<b>STD for 7 samples</b>
												4.60%	<b>% RSD for 7 samples</b>
<b>5</b>	20	200	1000	3.5	18.92437	20.96871	19.29692	19.07645	19.06898	19.23486	17.48326		Sample 1 taken
					18.93029	20.96672	19.32399	19.10394	19.05799	19.23783	17.49366		Sample 2 taken
					18.92733	20.96772	19.31045	19.0902	19.06349	19.23635	17.48846		Average of 2 samples injected
					0	0	0.02	0.02	0.01	0	0.01		STD for 2 samples
					0.02	0.01	0.1	0.10	0.04	0.01	0.04		% RSD for 2 samples
												19.15486	<b>Average of 7 samples for experiment</b>
												1.01312	<b>STD for 7 samples</b>
												5.29%	<b>% RSD for 7 samples</b>
<b>6</b>	10.1	125	1900	2	10.54695	10.41251	10.28038	10.04032	10.27545	9.96955	9.21349		Sample 1 taken
					10.53919	10.41869	10.27064	10.04335	10.2794	9.97212	9.21376		Sample 2 taken
					10.54307	10.4156	10.27551	10.04183	10.27742	9.97084	9.21363		Average of 2 samples injected
					0.01	0	0.01	0	0	0	0		STD for 2 samples
					0.05	0.04	0.07	0.02	0.03	0.02	0		% RSD for 2 samples
												10.10541	<b>Average of 7 samples for experiment</b>
												0.4404	<b>STD for 7 samples</b>
												4.36%	<b>% RSD for 7 samples</b>
<b>7</b>	0.2	200	2800	0.5	0.28012	0.16511	0.2035	0.20473	0.15068	0.14835	0.16195		Sample 1 taken
					0.28019	0.16666	0.20354	0.20485	0.15111	0.1499	0.16265		Sample 2 taken

Appendix C

					0.28015	0.16588	0.20352	0.20479	0.15089	0.14912	0.1623		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.02	0.66	0.01	0.04	0.20	0.73	0.30		% RSD for 2 samples
												0.18809	<b>Average of 7 samples for experiment</b>
												0.04664	<b>STD for 7 samples</b>
												24.80%	<b>% RSD for 7 samples</b>
<b>8</b>	20	50	2800	3.5	19.95027	20.75072	19.91127	19.79668	20.23576	19.95497	20.30723		Sample 1 taken
					19.94546	20.7543	19.89386	19.78201	20.22736	19.9223	20.29709		Sample 2 taken
					19.94787	20.75251	19.90257	19.78935	20.23156	19.93879	20.30216		Average of 2 samples injected
					0	0	0.01	0.01	0.01	0.02	0.01		STD for 2 samples
					0.02	0.01	0.06	0.05	0.03	0.12	0.04		% RSD for 2 samples
												20.12354	<b>Average of 7 samples for experiment</b>
												0.33284	<b>STD for 7 samples</b>
												1.65%	<b>% RSD for 7 samples</b>
<b>9</b>	0.2	50	2800	3.5	0.21723	0.2254	0.20489	0.19211	0.19305	0.22116	0.1829		Sample 1 taken
					0.21684	0.22524	0.20485	0.19215	0.19274	0.2205	0.18287		Sample 2 taken
					0.21704	0.22532	0.20487	0.19213	0.19289	0.22083	0.18288		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.13	0.05	0.01	0.01	0.11	0.21	0.01		% RSD for 2 samples
												0.20514	<b>Average of 7 samples for experiment</b>
												0.01638	<b>STD for 7 samples</b>
												7.99%	<b>% RSD for 7 samples</b>
<b>10</b>	0.2	50	1000	3.5	0.27399	0.134	0.63459	0.12477	0.14591	0.15192	0.24218		Sample 1 taken
					0.27705	0.13413	0.63484	0.12445	0.14583	0.15236	0.2423		Sample 2 taken
					0.27552	0.13407	0.63472	0.12461	0.14587	0.15214	0.24224		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.79	0.07	0.03	0.18	0.04	0.20	0.04		% RSD for 2 samples
												0.24%	<b>Average of 7 samples for</b>

Appendix C

													<b>experiment</b>
												0.18	<b>STD for 7 samples</b>
												74.41%	<b>% RSD for 7 samples</b>
<b>11</b>	20	200	2800	0.5	21.04913	19.23418	19.37332	19.98146	19.91698	19.54269	19.14698		Sample 1 taken
					21.05683	19.22283	19.35728	20.00056	19.90712	19.54566	19.12626		Sample 2 taken
					21.05298	19.22851	19.3653	19.99101	19.91205	19.54417	19.13661		Average of 2 samples injected
					0.01	0.01	0.01	0.01	0.01	0	0.01		STD for 2 samples
					0.03	0.04	0.06	0.07	0.04	0.01	0.08		% RSD for 2 samples
												19.74723	<b>Average of 7 samples for experiment</b>
												0.66088	<b>STD for 7 samples</b>
												3.35%	<b>% RSD for 7 samples</b>
<b>12</b>	20	200	1000	3.5	19.35916	19.39866	19.37527	20.70191	20.11837	19.86159	18.67179		Sample 1 taken
					19.3642	19.39497	19.37542	20.70595	20.10968	19.86875	18.66403		Sample 2 taken
					19.36159	19.39682	19.37534	20.70393	20.11402	19.86517	18.66791		Average of 2 samples injected
					0	0	0	0	0.01	0.01	0.01		STD for 2 samples
					0.02	0.01	0	0.01	0.03	0.03	0.03		% RSD for 2 samples
												19.64	<b>Average of 7 samples for experiment</b>
												0.65	<b>STD for 7 samples</b>
												3.33%	<b>% RSD for 7 samples</b>
<b>13</b>	20	50	1000	0.5	30.60116	27.47428	38.72258	29.5323	23.05055	10.42717	78.75367		Sample 1 taken
					30.66426	27.48382	38.71625	29.5389	23.0627	10.43129	78.79116		Sample 2 taken
					30.63271	27.47905	38.71941	29.5356	23.05662	10.42923	78.77242		Average of 2 samples injected
					0.04	0.01	0	0	0.01	0	0.03		STD for 2 samples
					0.15	0.02	0.01	0.02	0.04	0.03	0.03		% RSD for 2 samples
												34.08929	<b>Average of 7 samples for experiment</b>
												21.50937	<b>STD for 7 samples</b>
												63.10%	<b>% RSD for 7 samples</b>
<b>14</b>	20	50	2800	0.5	31.5871	29.06194	33.07292	33.26183	31.35406	33.52594	82.12135		Sample 1 taken

Appendix C

					31.58836	29.06961	33.06644	33.24969	31.35955	33.52603	82.17788		Sample 2 taken
					31.58773	29.06577	33.06968	33.25576	31.35681	33.52598	82.14962		Average of 2 samples injected
					0	0.01	0	0.01	0	0	0.04		STD for 2 samples
					0	0.02	0.01	0.03	0.01	0	0.05		% RSD for 2 samples
												39.14448	<b>Average of 7 samples for experiment</b>
												19.02596	<b>STD for 7 samples</b>
												48.6	<b>% RSD for 7 samples</b>

Appendix C

**Batch 3**

EXP NR	API conc, %w/w	Impeller speed, rpm	Chopper speed, rpm	Time, minutes	BATCH 1 results- Assay, %m/m (sampling points 1-7)								
					SP1	SP2	SP3	SP4	SP5	SP6	SP7		
1	0.2	50	1000	0.5	0.14704	0.12172	0.19518	0.40517	0.21291	0.19263	0.31959		Sample 1 taken
					0.1467	0.12151	0.19523	0.40571	0.21361	0.19257	0.32026		Sample 2 taken
					0.14687	0.12161	0.1952	0.40544	0.21326	0.1926	0.31992		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.16	0.12	0.02	0.09	0.23	0.02	0.15		% RSD for 2 samples
												0.23	<b>Average of 7 samples for experiment</b>
												0.1	<b>STD for 7 samples</b>
												44.03%	<b>% RSD for 7 samples</b>
2	0.2	200	2800	3.5	0.20253	0.20456	0.2053	0.20467	0.20792	0.21052	0.21286		Sample 1 taken
					0.20252	0.20473	0.2049	0.20485	0.20758	0.21094	0.21205		Sample 2 taken
					0.20252	0.20464	0.2051	0.20476	0.20775	0.21073	0.21246		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0	0.06	0.14	0.06	0.12	0.14	0.27		% RSD for 2 samples
												0.20685	<b>Average of 7 samples for experiment</b>
												0.00361	<b>STD for 7 samples</b>
												1.75%	<b>% RSD for 7 samples</b>
3	0.2	200	1000	0.5	0.16412	0.31493	0.13126	0.21214	0.16987	0.11912	0.21212		Sample 1 taken
					0.16521	0.31504	0.13025	0.21364	0.16897	0.12034	0.21046		Sample 2 taken
					0.16466	0.31499	0.13076	0.21289	0.16942	0.11973	0.21129		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.47	0.02	0.55	0.50	0.38	0.72	0.56		% RSD for 2 samples
												0.19%	<b>Average of 7 samples for experiment</b>

Appendix C

												0.06596	<b>STD for 7 samples</b>
												34.88%	<b>% RSD for 7 samples</b>
<b>4</b>	10.1	125	1900	2	9.86923	10.15864	9.79765	10.41443	10.29472	9.99924	9.91608		Sample 1 taken
					9.86798	10.14985	9.7871	10.41781	10.30336	10.00198	9.91773		Sample 2 taken
					9.8686	10.15425	9.79237	10.41612	10.29904	10.00061	9.9169		Average of 2 samples injected
					0	0.01	0.01	0	0.01	0	0		STD for 2 samples
					0.01	0.06	0.08	0.02	0.06	0.02	0.01		% RSD for 2 samples
												10.06%	<b>Average of 7 samples for experiment</b>
												0.23	<b>STD for 7 samples</b>
												2.31%	<b>% RSD for 7 samples</b>
<b>5</b>	20	200	1000	3.5	19.7244	19.53202	18.86401	19.14673	19.78665	18.85351	19.39319		Sample 1 taken
					19.72371	19.53394	18.87866	19.13324	19.79203	18.84079	19.39198		Sample 2 taken
					19.72406	19.53298	18.87134	19.13999	19.78934	18.84715	19.39259		Average of 2 samples injected
					0	0	0.01	0.01	0	0.01	0		STD for 2 samples
					0	0.01	0.05	0.05	0.02	0.05	0		% RSD for 2 samples
												19.3282	<b>Average of 7 samples for experiment</b>
												1	<b>STD for 7 samples</b>
												0.38535	<b>% RSD for 7 samples</b>
												1.99%	<b>STD for 7 samples</b>
<b>6</b>	10.1	125	1900	2	9.52464	9.89867	10.24384	10.79059	10.34372	10.22592	10.24145		Sample 1 taken
					9.53004	9.89242	10.24565	10.78586	10.35387	10.22878	10.24156		Sample 2 taken
					9.52734	9.89554	10.24475	10.78822	10.34879	10.22735	10.24151		Average of 2 samples injected
					0	0	0	0	0.01	0	0		STD for 2 samples
					0.04	0.04	0.01	0.03	0.07	0.02	0		% RSD for 2 samples
												10.1819	<b>Average of 7 samples for experiment</b>
												3	<b>STD for 7 samples</b>
												0.39062	<b>% RSD for 7 samples</b>
												3.84%	<b>STD for 7 samples</b>
<b>7</b>	0.2	200	2800	0.5	0.13798	0.18539	0.19385	0.20455	0.13757	0.2255	0.14065		Sample 1 taken
					0.13736	0.18548	0.19403	0.20474	0.13781	0.22497	0.14008		Sample 2 taken

Appendix C

					0.13767	0.18544	0.19394	0.20465	0.13769	0.22524	0.14036		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.32	0.03	0.07	0.07	0.12	0.17	0.29		% RSD for 2 samples
												0.175	<b>Average of 7 samples for experiment</b>
												0.03619	<b>STD for 7 samples</b>
												20.68%	<b>% RSD for 7 samples</b>
<b>8</b>	20	50	2800	3.5	20.39052	20.34485	20.31188	19.10609	20.10104	19.72587	20.41648		Sample 1 taken
					20.38278	20.34373	20.31615	19.10531	20.08931	19.71523	20.40026		Sample 2 taken
					20.38665	20.34429	20.31402	19.1057	20.09518	19.72055	20.40837		Average of 2 samples injected
					0	0	0	0	0.01	0.01	0.01		STD for 2 samples
					0.03	0	0.01	0	0.04	0.04	0.06		% RSD for 2 samples
												20.05354	<b>Average of 7 samples for experiment</b>
												0.48309	<b>STD for 7 samples</b>
												2.41%	<b>% RSD for 7 samples</b>
<b>9</b>	0.2	50	2800	3.5	0.20488	0.1943	0.1998	0.28085	0.20708	0.18438	0.18843		Sample 1 taken
					0.20518	0.19571	0.19807	0.28003	0.20667	0.18455	0.18853		Sample 2 taken
					0.20503	0.195	0.19893	0.28044	0.20688	0.18446	0.18848		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.10	0.51	0.61	0.21	0.14	0.07	0.04		% RSD for 2 samples
												0.20846	<b>Average of 7 samples for experiment</b>
												0.03277	<b>STD for 7 samples</b>
												15.72%	<b>% RSD for 7 samples</b>
<b>10</b>	0.2	50	1000	3.5	0.13708	0.1734	0.18332	0.1514	0.13429	0.13894	0.31949		Sample 1 taken
					0.1367	0.17325	0.18336	0.15131	0.13411	0.13872	0.31909		Sample 2 taken
					0.13689	0.17332	0.18334	0.15136	0.1342	0.13883	0.31929		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.20	0.06	0.02	0.04	0.09	0.11	0.09		% RSD for 2 samples
												0.18	<b>Average of 7 samples for</b>

Appendix C

													<b>experiment</b>
												0.07	<b>STD for 7 samples</b>
												37.14%	<b>% RSD for 7 samples</b>
<b>11</b>	20	200	2800	0.5	21.41535	18.84281	19.03592	20.68043	19.55533	19.25315	18.209		Sample 1 taken
					21.42224	18.83843	19.03598	20.68433	19.55533	19.25128	18.20361		Sample 2 taken
					21.41879	18.84062	19.03595	20.68238	19.55533	19.25221	18.2063		Average of 2 samples injected
					0	0	0	0	0	0	0		STD for 2 samples
					0.02	0.02	0	0.01	0	0.01	0.02		% RSD for 2 samples
												19.5702	<b>Average of 7 samples for experiment</b>
												3	<b>STD for 7 samples</b>
												1.11307	<b>% RSD for 7 samples</b>
												5.69%	<b>% RSD for 7 samples</b>
<b>12</b>	20	200	1000	3.5	19.54566	18.98367	18.81219	19.43599	19.4822	19.84774	19.01773		Sample 1 taken
					19.53415	18.97331	18.81906	19.43595	19.48087	19.83429	19.00411		Sample 2 taken
					19.53991	18.97849	18.81563	19.43597	19.48153	19.84101	19.01092		Average of 2 samples injected
					0.01	0.01	0	0	0	0.01	0.01		STD for 2 samples
					0.04	0.04	0.03	0	0	0.05	0.05		% RSD for 2 samples
												19.3	<b>Average of 7 samples for experiment</b>
												0.37	<b>STD for 7 samples</b>
												1.92%	<b>% RSD for 7 samples</b>
<b>13</b>	20	50	1000	0.5	25.70033	31.07599	28.89282	17.85918	26.10569	18.61466	82.61686		Sample 1 taken
					25.70681	31.08210	28.87901	17.86624	26.11592	18.60207	82.65678		Sample 2 taken
					25.70357	31.07905	28.88593	17.86271	26.11080	18.60837	82.63682		Average of 2 samples injected
					0	0	0.01	0	0.01	0.01	0.03		STD for 2 samples
					0.02	0.01	0.03	0.03	0.03	0.05	0.03		% RSD for 2 samples
												32.9840	<b>Average of 7 samples for experiment</b>
												4	<b>STD for 7 samples</b>
												22.4401	<b>% RSD for 7 samples</b>
												2	<b>STD for 7 samples</b>
												68.03	<b>% RSD for 7 samples</b>

Appendix C

14	20	50	2800	0.5	28.70436	32.92129	30.39837	36.06415	31.86573	30.66277	80.45300		Sample 1 taken
					28.69617		30.40963	36.07869	31.86797	30.66632	80.35645		Sample 2 taken
					28.70027	32.91348	30.40400	36.07142	31.86685	30.66454	80.40473		Average of 2 samples injected
					0.01		0.01	0.01	0	0	0.07		STD for 2 samples
					0.02		0.03	0.03	0	0.01	0.08		% RSD for 2 samples
												38.4321	<b>Average of 7 samples for experiment</b>
												8	
												18.59	<b>STD for 7 samples</b>
												48.37	<b>% RSD for 7 samples</b>

**% RSD for 14 experiments**

EXP	API concentration, %w/w	Impeller speed, rpm	Chopper speed, rpm	Time, minutes	& RSD			Mean (all three batches %RSD)	%RSD (all three batches)	STD (all three batches)	Position according to mean of RSD of 3 batches
					BATCH 1	BATCH 2	BATCH 3				
1	0.2	50	1000	0.5	54.09%	88.88%	44.03%	<b>62.33%</b>	37.75	23.53%	14
2	0.2	200	2800	3.5	2.75%	0.64%	1.75%	<b>1.71%</b>	61.60%	1.06%	1
3	0.2	200	1000	0.5	21.76%	51.49%	34.88%	<b>36.04%</b>	41.34%	14.90%	10
4	10.1	125	1900	2	2.39%	4.60%	2.31%	<b>3.10%</b>	41.92%	1.30%	4
5	20	200	1000	3.5	2.28%	5.29%	1.99%	<b>3.19%</b>	57.34%	1.83%	5
6	10.1	125	1900	2	4.69%	4.36%	3.84%	<b>4.30%</b>	9.97%	0.43%	7
7	0.2	200	2800	0.5	25.82%	24.80%	20.68%	<b>23.77%</b>	11.45%	2.72%	9
8	20	50	2800	3.5	1.43%	1.65%	2.41%	<b>1.83%</b>	28.10%	0.51%	2
9	0.2	50	2800	3.5	8.40%	7.99%	15.72%	<b>10.70%</b>	40.64%	4.35%	8
10	0.2	50	1000	3.5	44.78%	74.41%	37.14%	<b>52.11%</b>	37.78%	19.69%	12
11	20	200	2800	0.5	2.54%	3.35%	5.69%	<b>3.86%</b>	42.38%	1.64%	6
12	20	200	1000	3.5	2.10%	3.33%	1.92%	<b>2.45%</b>	31.32%	0.77%	3
13	20	50	1000	0.5	46.05%	63.10	68.03%	<b>59.06%</b>	19.53%	11.53%	13
14	20	50	2800	0.5	55.37%	48.60	48.37%	<b>50.78%</b>	7.83%	3.98%	11