Investigator: Subhashini

1/26/2006

TEST RESULTS

Oil added	100		
	Oil Density		
IFO 180	0.957		
IFO 380	0.9774		
	Slope of Calibration		
IFO 180 (no disp)	214.17	IFO 180 (25 1:25)	220.67
IFO 380 (no disp)	239.32	IFO 380 (25 1:25)	251.59
IFO 180 (9500 1:10)	230.09	IFO 180 (9500 1:50)	232.60
IFO 380 (9500 1:10)	226.10	IFO 380 (9500 1:50)	248.96
IFO 180 (9500 1:25)	219.65		
IFO 380 (9500 1:25)	235.98		

Oil	DOR	Replicate	340nm	370nm	400nm	Dilution Factor	Area	Conc. mg/mL	Mass in 30 mL mg	Total Oil Dispersed mg	Efficiency %	Std Dev	Avg Eff	RSD
IFO 180	NA	1	0.0026	0.0027	0	1	0.1	0.00056	0.01	0.04	0.05	0.0	0.05	17.592635
Swirling Flask	NA	2	0.0022	0.0028	0	1	0.1	0.00055	0.01	0.04	0.05			
No Dispersant	NA	3	0.0023	0.0044	0	1	0.2	0.00078	0.02	0.06	0.06			
17.1 °C	NA	4	0.0031	0.0035	0.0001	1	0.2	0.00071	0.01	0.06	0.06			
IFO 180	NA	1	0.1879	0.1093	0.0703	1	7.2	0.03339	0.67	2.67	2.79	0.2	2.66	5.9137713
Baffled Flask	NA	2	0.1785	0.1033	0.0665	1	6.8	0.03163	0.63	2.53	2.64			
No Dispersant	NA	3	0.165	0.0956	0.0609	1	6.3	0.02921	0.58	2.34	2.44			
17.2 °C	NA	4	0.186	0.1075	0.0696	1	7.1	0.03296	0.66	2.64	2.75			
IFO 380	NA	1	0.0029	0.0028	0.0006	1	0.1	0.00057	0.01	0.05	0.05	0.0	0.05	9.539721
Swirling Flask	NA	2	0.0031	0.0029	0.0007	1	0.1	0.0006	0.01	0.05	0.05			
No Dispersant	NA	3	0.0031	0.0034	0.0009	1	0.2	0.00068	0.01	0.05	0.06			
17.8 °C	NA	4	0.0027	0.0028	0.0004	1	0.1	0.00055	0.01	0.04	0.04			
IFO 380	NA	1	0.3115	0.1782	0.1188	1	11.8	0.04931	0.99	3.94	4.04	0.2	3.85	6.3154777
Baffled Flask	NA	2	0.29	0.1655	0.1111	1	11.0	0.04589	0.92	3.67	3.76			
No Dispersant	NA	3	0.2729	0.157	0.1045	1	10.4	0.04334	0.87	3.47	3.55			
18.0 °C	NA	4	0.311	0.1797	0.12	1	11.9	0.04954	0.99	3.96	4.05			
IFO 180	1:10	1	0.449	0.2543	0.1713	1	16.9	0.0736	1.47	5.89	6.15	0.7	7.08	9.2352913
Swirling Flask	1:10	2	0.5587	0.3168	0.2131	1	21.1	0.09162	1.83	7.33	7.66			
Corexit 9500	1:10	3	0.5383	0.3043	0.2047	1	20.3	0.08811	1.76	7.05	7.36			
17.2 °C	1:10	4	0.5234	0.2961	0.1982	1	19.7	0.08565	1.71	6.85	7.16			
IFO 380	1:10	1	0.3256	0.1804	0.1195	1	12.1	0.05347	1.07	4.28	4.38	0.4	4.62	9.1678355
Swirling Flask	1:10	2	0.345	0.1923	0.1279	1	12.9	0.05689	1.14	4.55	4.66			
Corexit 9500	1:10	3	0.3842	0.2156	0.1436	1	14.4	0.06362	1.27	5.09	5.21			
17.1 °C	1:10	4	0.3149	0.176	0.1167	1	11.8	0.05199	1.04	4.16	4.26			
IFO 180	1:25	1	2.6724	1.5333	1.0452	2	203.5	0.92659	18.53	74.13	77.43	1.83	76.58	2.3951254
Baffled Flask	1:25	2	2.5676	1.4797	1.0063	2	196.0	0.89232	17.85	71.39	74.57			
Corexit 9500	1:25	3	2.5999	1.5022	1.0231	2	198.8	0.90517	18.10	72.41	75.64			
17.4 °C	1:25	4	2.6743	1.5729	1.0741	2	206.8	0.94161	18.83	75.33	78.69			
IFO 380	1:25	1	2.4769	1.4257	0.9811	2	189.3	0.8021	16.04	64.17	65.65	2.20	64.81	3.3916082
Baffled Flask	1:25	2	2.4127	1.3837	0.9413	2	183.6	0.7782	15.56	62.26	63.70			

Corexit 9500	**1:25**	**3**	2.5377	1.4709	1.0018	2	194.4	0.82395	16.48	65.92	67.44			
17.2 °C	**1:25**	**4**	2.3713	1.3547	0.9199	2	180.0	0.76284	15.26	61.03	62.44			
IFO 180	**1:25**	**1**	2.6735	1.5693	1.0718	2	206.5	0.93585	18.72	74.87	78.21	1.3	79.46	1.5893439
Baffled Flask	**1:25**	**2**	2.7142	1.6172	1.1057	2	211.6	0.95902	19.18	76.72	80.14			
SD 25	**1:25**	**3**	2.7605	1.6239	1.1107	2	213.6	0.96781	19.36	77.42	80.88			
17.0 °C	**1:25**	**4**	2.7148	1.5667	1.0704	2	207.6	0.94057	18.81	75.25	78.60			
IFO 380	**1:25**	**1**	2.0427	1.173	0.7968	2	155.6	0.61833	12.37	49.47	50.61	5.5	56.52	9.8200179
Baffled Flask	**1:25**	**2**	2.436	1.4101	0.9581	2	186.4	0.74101	14.82	59.28	60.65			
SD 25	**1:25**	**3**	2.4844	1.4357	0.9769	2	190.0	0.75513	15.10	60.41	61.81			
17.2 °C	**1:25**	**4**	2.1345	1.2302	0.8345	2	162.9	0.64742	12.95	51.79	52.99			
IFO 180	**1:50**	**1**	2.5387	1.4708	1.001	2	194.4	0.83595	16.72	66.88	69.86	3.27	72.49	4.5075084
Baffled Flask	**1:50**	**2**	2.5387	1.4686	1.0007	2	194.3	0.83534	16.71	66.83	69.81			
Corexit 9500	**1:50**	**3**	2.7605	1.6178	1.1036	2	213.0	0.91571	18.31	73.26	76.52			
17.1 °C	**1:50**	**4**	2.6735	1.556	1.0587	2	205.3	0.88275	17.66	70.62	73.77			
IFO 380	**1:50**	**1**	1.575	0.9016	0.611	2	119.7	0.4807	9.61	38.46	39.35	2.50	40.50	6.1753592
Baffled Flask	**1:50**	**2**	1.5026	0.8602	0.5818	2	114.1	0.45848	9.17	36.68	37.53			
Corexit 9500	**1:50**	**3**	1.7104	0.981	0.6643	2	130.1	0.52258	10.45	41.81	42.77			
17.2 °C	**1:50**	**4**	1.6936	0.9713	0.6577	2	128.8	0.51742	10.35	41.39	42.35			
