

- Pass 1 Results for 85 Labs - - Pass 2 Results for 84 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, Other		001.99	2	28.308	20.292	0.2250	2	28.308	20.292	0.2250
Nitrogen From Urea, Urease (as N)	959.03	005.00	3	45.695	1.5111	0.5747	3	45.695	1.5111	0.5747
Nitrogen From Urea, Other		005.99	5	45.333	0.5457	0.0755	5	45.333	0.5457	0.0755
Method Group 005.XX PCT			8	45.469	0.9862	0.2627	7	45.708	0.7706	0.1573
Nitrogen From Biuret, AA (as N)	970.01	006.00	1	1.1200	0.0283	0.0400	1	1.1200	0.0283	0.0400
Nitrogen From Biuret, Other		006.99	1	1.1200	0.0000	0.0000	1	1.1200	0.0000	0.0000
Method Group 006.XX PCT			2	1.1200	0.0163	0.0200	2	1.1200	0.0163	0.0200
Percent Urea, Other		007.99	1	46.540	0.0849	0.1200	1	46.540	0.0849	0.1200
Percent Biuret, Spec (as Biuret)	960.04	008.10	4	1.1024	0.0702	0.0061	4	1.1024	0.0702	0.0061
Ammon & Nitrate N, Devarda	892.01	009.10	1	10.775	0.0071	0.0100	1	10.775	0.0071	0.0100
Total Nitrogen, Modified Comprehensive	978.02	010.11	12	46.250	0.3837	0.1293	12	46.250	0.3837	0.1293
Total Nitrogen, Salicylic	955.04D	010.12	7	46.169	0.4303	0.2476	7	46.169	0.4303	0.2476
Total Nitrogen, Combustion		010.60	44	46.495	0.3445	0.1465	41	46.511	0.3156	0.1003
Total Nitrogen, Other		010.99	7	46.513	0.4649	0.3578	6	46.440	0.3315	0.1641
Method Group 010.XX PCT			70	46.422	0.3898	0.1747	65	46.417	0.3629	0.1190
Total Phosphate, Grav Quimociac	962.02	020.10	10	16.300	0.1790	0.0509	10	16.300	0.1790	0.0509
Total Phosphate, Spectrometric	958.01	020.20	15	16.201	0.2271	0.0791	15	16.201	0.2271	0.0791
Total Phosphate, Automated	978.01	020.40	5	16.375	0.1916	0.0580	5	16.375	0.1916	0.0580
Total Phosphate, ICP		020.50	2	16.483	0.1825	0.0750	2	16.483	0.1825	0.0750
Total Phosphate, Other		020.99	3	16.352	0.2969	0.0487	3	16.352	0.2969	0.0487
Method Group 020.XX PCT			35	16.283	0.2237	0.0652	34	16.293	0.2176	0.0597
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	2	0.0575	0.0330	0.0150	2	0.0575	0.0330	0.0150
Insoluble Phosphate, Spectrometric	963.03C	030.20	4	0.0451	0.0395	0.0178	4	0.0451	0.0395	0.0178
Insoluble Phosphate, Automated	978.01	030.40	1	0.0750	0.0071	0.0100	1	0.0750	0.0071	0.0100
Method Group 030.XX PCT			7	0.0529	0.0348	0.0159	7	0.0529	0.0348	0.0159
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	16.210	0.0141	0.0200	1	16.210	0.0141	0.0200
InDir Available Phosphate, Spectrometri	960.02	040.20	4	16.131	0.1412	0.0925	4	16.131	0.1412	0.0925
InDir Available Phosphate, Other		040.99	1	16.170	0.0000	0.0000	1	16.170	0.0000	0.0000
Method Group 040.XX PCT			6	16.151	0.1170	0.0650	6	16.151	0.1170	0.0650
Dir Available Phosphate, Grav Quim	960.03E	041.10	17	16.209	0.1846	0.0807	16	16.198	0.1810	0.0676
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	16.092	0.1127	0.0238	3	16.092	0.1127	0.0238
Dir Available Phosphate, Alka. Quim ...	960.03C	041.30	1	16.095	0.1768	0.2500	1	16.095	0.1768	0.2500
Dir Available Phosphate, Automated	978.01	041.40	4	16.050	0.1277	0.0300	4	16.050	0.1277	0.0300
Dir Available Phosphate, ICP		041.50	8	15.940	0.2780	0.1008	7	15.917	0.2812	0.0609
Dir Available Phosphate, EDTA Extract .	993.01	041.60	12	16.152	0.2001	0.1006	12	16.152	0.2001	0.1006
Dir Available Phosphate, Other		041.99	1	16.250	0.2121	0.3000	1	16.250	0.2121	0.3000
Method Group 041.XX PCT			46	16.124	0.2185	0.0897	42	16.141	0.1956	0.0728
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	14.775	0.0526	0.0500	2	14.775	0.0526	0.0500
Soluble Potash, STPB Oxalate	958.02	050.00	18	37.888	0.2984	0.1506	17	37.884	0.2877	0.1082

MAGRUDER - Fertilizer Check Sample No. - 200107 Grade 0-18-36(A) 46-0-0(B)

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Soluble Potash, STPB Citrate	969.04	050.10	1	38.409	0.1063	0.1503	1	38.409	0.1063	0.1503
Soluble Potash, AA (Oxalate)		050.30	11	37.377	1.3157	0.3008	11	37.377	1.3157	0.3008
Soluble Potash, AA (Citrate)		050.31	2	36.780	0.7176	0.0600	2	36.780	0.7176	0.0600
Soluble Potash, ICP (Oxalate)		050.50	2	36.100	0.7675	1.1000	2	36.100	0.7675	1.1000
Soluble Potash, ICP (Citrate)		050.51	9	37.099	1.3209	0.5838	8	36.806	1.0102	0.4118
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	38.178	1.2672	0.9408	3	37.852	0.8640	0.2044
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	37.731	1.1854	0.1200	7	37.731	1.1854	0.1200
Soluble Potash, Other		050.99	17	37.828	1.1247	0.6995	15	37.918	1.0223	0.3988
Method Group 050.XX PCT			74	37.573	1.1007	0.4146	68	37.534	0.9975	0.2426
Free Water, Vacuum Oven	965.08B	060.00	4	0.8538	0.0466	0.0175	4	0.8538	0.0466	0.0175
Acid Soluble Calcium, ICP		101.30	6	5.8154	0.1591	0.0871	6	5.8154	0.1591	0.0871
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	5.4000	0.0707	0.1000	1	5.4000	0.0707	0.1000
Method Group 101.XX PCT			7	5.7560	0.2111	0.0889	7	5.7560	0.2111	0.0889
Acid Soluble Magnesium, AA	984.01	121.00	1	0.5400	0.0000	0.0000	1	0.5400	0.0000	0.0000
Acid Soluble Magnesium, ICP		121.30	5	0.5275	0.0256	0.0131	5	0.5275	0.0256	0.0131
Acid Soluble Magnesium, Other		121.99	1	0.5259	0.0040	0.0056	1	0.5259	0.0040	0.0056
Method Group 121.XX PCT			7	0.5291	0.0219	0.0102	7	0.5291	0.0219	0.0102
Water Soluble Magnesium, AA		131.00	1	0.2250	0.0071	0.0100	1	0.2250	0.0071	0.0100
Sulfur, Gravimetric	980.02a	144.01	2	0.5141	0.0241	0.0015	2	0.5141	0.0241	0.0015
Sulfur, Gravimetric	980.02c	144.03	1	0.5450	0.0212	0.0300	1	0.5450	0.0212	0.0300
Sulfur, Other		144.99	3	0.5478	0.0351	0.0091	3	0.5478	0.0351	0.0091
Method Group 144.XX PCT			6	0.5361	0.0320	0.0100	6	0.5361	0.0320	0.0100
Arsenic, ICP		151.30	4	0.9300	0.5394	0.1748	4	0.9300	0.5394	0.1748
Arsenic, Other		151.99	1	2.6500	0.3536	0.5000	1	2.6500	0.3536	0.5000
Method Group 151.XX PPM			5	1.2740	0.8753	0.2398	5	1.2740	0.8753	0.2398
Acid Soluble Boron, Other		165.99	1	0.0087	0.0017	0.0024	1	0.0087	0.0017	0.0024
Cadmium, Atomic Absorption		181.00	5	10.417	1.1275	0.2983	5	10.417	1.1275	0.2983
Cadmium, ICP		181.30	9	9.5849	1.1710	0.5249	9	9.5849	1.1710	0.5249
Cadmium, Other		181.99	2	10.175	0.2630	0.0500	2	10.175	0.2630	0.0500
Method Group 181.XX PPM			16	9.9187	1.1318	0.3947	16	9.9187	1.1318	0.3947
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	29.440	0.0283	0.0400	1	29.440	0.0283	0.0400
Water Soluble Chlorine, Other		190.99	1	29.759	0.0010	0.0014	1	29.759	0.0010	0.0014
Method Group 190.XX PCT			2	29.599	0.1848	0.0207	2	29.599	0.1848	0.0207
Chromium, Atomic Absorption		191.00	2	105.50	3.4157	3.0000	2	105.50	3.4157	3.0000
Chromium, ICP		191.30	3	92.425	7.2919	2.6532	3	92.425	7.2919	2.6532
Method Group 191.XX PPM			5	97.655	8.8890	2.7919	5	97.655	8.8890	2.7919
Acid Soluble Cobalt, AA		202.00	5	8.6843	4.1811	0.6875	5	8.6843	4.1811	0.6875
Acid Soluble Cobalt, ICP	965.11	202.30	7	2.4954	1.3778	0.2464	6	2.1350	1.0837	0.0700
Acid Soluble Cobalt, Other		202.99	1	3.3000	0.8485	1.2000	1	3.3000	0.8485	1.2000

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 202.XX PPM			13	4.9376	4.0595	0.4894	12	4.3908	3.7081	0.3469
Acid Soluble Copper, Atomic Absorption	975.01	221.00	9	0.0009	0.0002	0.0001	8	0.0009	0.0002	0.0001
Acid Soluble Copper, ICP		221.30	8	0.0006	0.0001	0.0001	8	0.0006	0.0001	0.0001
Acid Soluble Copper, Other		221.99	3	0.0008	0.0005	0.0001	3	0.0008	0.0005	0.0001
Method Group 221.XX PCT			20	0.0008	0.0003	0.0001	19	0.0008	0.0003	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	0.1288	0.0108	0.0045	2	0.1288	0.0108	0.0045
Acid Soluble Iron, ICP		241.30	6	0.1472	0.0063	0.0039	6	0.1472	0.0063	0.0039
Method Group 241.XX PCT			8	0.1426	0.0110	0.0041	8	0.1426	0.0110	0.0041
Lead, Atomic Absorption		251.00	4	7.1538	8.3821	0.5025	4	7.1538	8.3821	0.5025
Lead, ICP		251.30	4	5.2104	5.9972	2.1921	3	2.2488	1.4752	0.3252
Lead, Other		251.99	2	3.1000	0.9899	1.3000	2	3.1000	0.9899	1.3000
Method Group 251.XX PPM			10	5.5657	6.4564	1.3379	9	4.6179	5.9407	0.6206
Acid Soluble Manganese, AA	972.02a	261.00	2	0.0020	0.0003	0.0001	2	0.0020	0.0003	0.0001
Acid Soluble Manganese, ICP	972.02a	261.30	5	0.0020	0.0001	0.0001	5	0.0020	0.0001	0.0001
Method Group 261.XX PCT			7	0.0020	0.0002	0.0001	7	0.0020	0.0002	0.0001
Mercury, ICP		281.30	1	0.0000	0.0000	0.0000	1	0.0000	0.0000	0.0000
Mercury, Other		281.99	2	0.0200	0.0041	0.0050	2	0.0200	0.0041	0.0050
Method Group 281.XX PPM			3	0.0133	0.0108	0.0033	3	0.0133	0.0108	0.0033
Molybdenum, ICP		289.30	6	2.4726	0.3516	0.1972	6	2.4726	0.3516	0.1972
Molybdenum, Other		289.99	1	3.5500	0.3536	0.5000	1	3.5500	0.3536	0.5000
Method Group 289.XX PPM			7	2.6265	0.5170	0.2404	7	2.6265	0.5170	0.2404
Nickel, Atomic Absorption		291.00	3	9.7741	3.3625	0.8034	3	9.7741	3.3625	0.8034
Nickel, ICP		291.30	8	7.9225	1.1925	0.5758	8	7.9225	1.1925	0.5758
Nickel, Other		291.99	2	9.8500	0.8583	0.6000	2	9.8500	0.8583	0.6000
Method Group 291.XX PPM			14	8.9215	2.2044	0.7211	13	9.0078	2.2416	0.5919
Selenium, Atomic Absorption		301.00	1	1.3900	0.0141	0.0200	1	1.3900	0.0141	0.0200
Selenium, ICP		301.30	2	0.8000	0.9274	0.1000	2	0.8000	0.9274	0.1000
Selenium, Other		301.99	2	1.3500	0.3786	0.3000	2	1.3500	0.3786	0.3000
Method Group 301.XX PPM			5	1.1380	0.6476	0.1640	4	1.1475	0.7162	0.0550
Sodium, Atomic Absorption	983.04	311.00	1	1.1050	0.0636	0.0900	1	1.1050	0.0636	0.0900
Sodium, Flame Photometric	974.01	311.30	1	1.0787	0.0249	0.0353	1	1.0787	0.0249	0.0353
Sodium, Other		311.99	2	1.0289	0.0225	0.0071	2	1.0289	0.0225	0.0071
Method Group 311.XX PCT			4	1.0604	0.0460	0.0348	4	1.0604	0.0460	0.0348
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	8	0.0079	0.0008	0.0005	8	0.0079	0.0008	0.0005
Acid Soluble Zin, ICP		321.30	12	0.0077	0.0010	0.0001	11	0.0077	0.0011	0.0001
Acid Soluble Zinc, Other		321.99	3	0.0078	0.0014	0.0003	3	0.0078	0.0014	0.0003
Method Group 321.XX PCT			23	0.0078	0.0010	0.0003	21	0.0077	0.0010	0.0002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.99	--	--	Method 006.XX	--	--	Method 010.12	--	--	Method 010.60	--	--	Method 010.XX	--
402	45.880	.87	220	1.1200	-1.22	102	45.468	-1.63	037	46.350	-.53	177	46.680 R	1.15
Avg	28.308								307	46.345	-.53	324	46.810	1.09
200	10.735	-.87	--	Method 007.99	--	--	Method 010.60	--	035	46.330	-.60	009	46.575 R	1.07
			247	46.540	.71	292	48.960 s	7.76	325	46.225	-.91	309	46.750	1.01
--	Method 005.00	--	--	Method 008.10	--	383	48.430 s	6.23	394	46.150	-1.15	377	46.775	.99
291	46.686	.66				361	47.870 S	4.31	027	46.105	-1.29	024	46.750	.94
309	46.600	.61	320	1.1650	.89	330	47.150	2.03	029	46.040	-1.50	369	46.735	.92
Avg	45.695		415	1.1597	.82	095	46.550 R	1.62	157	46.030	-1.53	262	46.695	.88
330	43.800	-1.30	Avg	1.1024		390	46.975	1.47	234	46.025	-1.55	291	46.686	.87
			395	1.0800	-.32	376	46.940	1.40	055	46.040	-1.60	372	46.720	.84
--	Method 005.99	--	398	1.0050	-1.39	007	46.850	1.17	232	46.005	-1.61	351	46.701	.81
300	46.050	1.32				049	46.870	1.15	041	45.855	-2.08	028	46.685	.75
415	45.864	.97	--	Method 009.10	--	009	46.575 R	1.14	018	45.700 R	-2.74	401	46.650	.66
Avg	45.333		200	10.775	.71	096	46.840	1.12	334	45.120 s	-5.25	131	46.650	.65
169	45.028 X	-.56				251	46.850	1.10				288	46.620	.58
288	44.875	-.84	--	Method 010.11	--	324	46.810	.95	--	Method 010.99	--	360	46.620	.57
394	44.850	-.89	309	46.750	1.36	377	46.775	.84	024	46.950 R	2.76	040	46.620	.56
			288	46.620	.97	024	46.750	.80	177	46.680	1.22	114	46.585	.56
--	Method 005.XX	--	114	46.585	.92	262	46.695	.76	369	46.735	.93	233	46.615 X	.55
291	46.686	1.29	073	46.500	.79	291	46.686	.76	362	46.510	.21	073	46.500	.52
309	46.600	1.19	148	46.410	.42	372	46.720	.67	320	46.450	.15	136	46.595	.50
300	46.050	.45	029	46.365	.31	028	46.685	.57	Avg	46.440		086	46.560	.41
415	45.864	.21	Avg	46.250		401	46.650	.47	153	46.406	-.10	043	46.560	.40
Avg	45.708		395	46.200	-.13	131	46.650	.45	211	45.860	-1.75	185	46.515	.38
169	45.028 X	-.88	414	46.185	-.30	360	46.620	.36				142	46.510	.26
288	44.875	-1.08	415	46.077	-.48	040	46.620	.35	--	Method 010.XX	--	362	46.510	.26
394	44.850	-1.11	090	46.020	-.60	233	46.615 X	.33	292	48.960 s	7.01	296	46.480	.24
330	43.800 R	-2.56	028	45.940	-.81	136	46.595	.28	383	48.430 s	5.67	320	46.450	.17
			322	45.345	-2.37	086	46.560	.20	361	47.870 s	4.01	398	46.440	.15
--	Method 006.00	--				043	46.560	.18	024	46.950 R	2.56	025	46.465	.13
220	1.1200	-.71	--	Method 010.12	--	Avg	46.511		330	47.150	2.03	Avg	46.417	
			351	46.701	1.25	142	46.510	-.06	390	46.975	1.54	153	46.406	-.03
--	Method 006.99	--	185	46.515	.83	025	46.465	-.15	376	46.940	1.47	148	46.410	-.03
220	1.1200	.00	398	46.440	.64	296	46.480	-.21	095	46.550 R	1.45	057	46.375	-.12
			Avg	46.169		070	46.405	-.38	007	46.850	1.26	220	46.390	-.13
--	Method 006.XX	--	397	45.982 X	-.54	220	46.390	-.40	049	46.870	1.26	070	46.405	-.15
220	1.1200	.00	162	46.150	-.58	057	46.375	-.43	096	46.840	1.22	023	46.360	-.16
Avg	1.1200		326	45.925	-.73	023	46.360	-.48	251	46.850	1.21	029	46.365	-.17

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 010.XX	--	--	Method 020.20	--	--	Method 020.XX	--	--	Method 020.XX	--	--	Method 040.99	--
307	46.345	-.20	232	16.805 X	2.66	330	17.075 s	4.30	383	14.310 s	-9.19	247	16.170	.00
037	46.350	-.21	169	16.479 X	1.30	232	16.805 X	2.35						
035	46.330	-.28	372	16.390	.83	035	16.715	1.95	--	Method 030.10	--	--	Method 040.XX	--
325	46.225	-.53	106	16.285	.42	162	16.680	1.78	090	0.0850	.85	395	16.245	1.08
395	46.200	-.60	334	16.255	.24	307	16.635	1.59	Avg	0.0575		106	16.255	.97
414	46.185	-.69	Avg	16.201		402	16.630	1.55	320	0.0300	-.89	090	16.210	.51
394	46.150	-.75	392	16.190	-.07	169	16.479 X	.98				247	16.170	.16
027	46.105	-.86	395	16.195	-.16	414	16.430	.71	--	Method 030.20	--	Avg	16.151	
415	46.077	-.95	362	16.150	-.24	153	16.437	.66	220	0.0900	1.24	096	16.040	-1.04
162	46.150	-1.01	292	16.100	-.45	142	16.395	.47	096	0.0650	.63	220	15.985	-1.42
029	46.040	-1.04	309	16.100	-.45	372	16.390	.45	Avg	0.0451				
157	46.030	-1.07	096	16.105	-.45	300	16.350	.35	106	0.0255	-.50	--	Method 041.10	--
234	46.025	-1.09	220	16.055	-.66	114	16.350	.26	395	0.0000	-1.14	296	16.550	1.95
090	46.020	-1.09	324	16.010	-.90	361	16.330	.19				211	16.445	1.37
232	46.005	-1.14	376	15.965	-1.09	090	16.295	.02	--	Method 030.40	--	041	16.385 R	1.31
055	46.040	-1.15	390	15.935	-1.29	Avg	16.293		247	0.0750	-.71	254	16.400	1.25
397	45.982 X	-1.26	234	15.440 S	-3.36	148	16.290	-.05				029	16.385	1.04
028	45.940	-1.31	383	14.310 s	-8.40	193	16.270	-.17	--	Method 030.XX	--	055	16.280	.46
326	45.925	-1.46				334	16.255	-.18	220	0.0900	1.21	177	16.255	.33
211	45.860	-1.53	--	Method 020.40	--	106	16.285	-.21	090	0.0850	.93	040	16.210	.18
041	45.855	-1.55	035	16.715	1.79	247	16.245	-.22	247	0.0750	.65	Avg	16.198	
018	45.700 R	-2.14	142	16.395	.13	320	16.250	-.30	096	0.0650	.55	057	16.180	-.15
102	45.468	-2.62	Avg	16.375		220	16.230	-.37	Avg	0.0529		136	16.175	-.28
322	45.345	-2.96	193	16.270	-.57	095	16.225	-.38	320	0.0300	-.72	086	16.135	-.35
334	45.120 s	-4.35	247	16.245	-.68	392	16.190	-.48	106	0.0255	-.79	009	16.100	-.55
			320	16.250	-.70	395	16.195	-.48	395	0.0000	-1.52	326	16.055	-.84
--	Method 020.10	--				057	16.150	-.66				028	16.040	-.91
162	16.680	2.13	--	Method 020.50	--	362	16.150	-.67	--	Method 040.10	--	131	16.035	-.92
414	16.430	.83	330	17.075 S	4.30	096	16.105	-.88	090	16.210	-.71	414	16.015	-1.04
300	16.350	.40	307	16.635	.89	309	16.100	-.89				322	15.900	-1.69
114	16.350	.28	Avg	16.483		292	16.100	-.89	--	Method 040.20	--			
Avg	16.300		361	16.330	-.84	220	16.055	-1.11	395	16.245	1.01	--	Method 041.20	--
090	16.295	-.04				324	16.010	-1.34	106	16.255	.93	200	52.005 S	318.65
148	16.290	-.08	--	Method 020.99	--	157	15.996	-1.37	Avg	16.131		415	16.217	1.15
220	16.230	-.48	402	16.630	.94	369	15.990	-1.43	096	16.040	-.74	Avg	16.092	
095	16.225	-.49	153	16.437	.28	376	15.965	-1.55	220	15.985	-1.04	397	16.088	-.04
057	16.150	-.84	Avg	16.352		390	15.935 R	-1.74				362	15.970	-1.08
157	15.996	-1.70	369	15.990	-1.24	234	15.440 s	-3.93						

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 041.30	--	--	Method 041.99	--	--	Method 041.XX	--	--	Method 050.00	--	--	Method 050.51	--
260	16.095	.71	401	16.250	.71	326	16.055	-.52	345	37.730	-.57	023	38.240	1.50
						131	16.035	-.57	326	37.585	-1.05	377	37.550	.74
--	Method 041.40	--	--	Method 041.XX	--	028	16.040	-.57	300	37.500	-1.38	393	37.500 X	.72
029	16.235	1.45	200	52.005 s	183.35	260	16.095	-.68	296	37.430	-1.58	070	37.195	.39
025	16.060	.18	262	18.160 s	10.32	414	16.015	-.68	131	37.415	-1.63	Avg	36.805	
Avg	16.050		251	17.615 s	8.52	049	15.985	-.82	095	36.705 s	-4.14	102	36.675	-.13
049	15.985	-.58	007	16.850 s	3.71	362	15.970	-.87	372	36.420 s	-5.09	361	36.200	-.60
027	15.920	-1.02	296	16.550	2.10	023	16.100 R	-.99	392	36.225 s	-5.77	291	35.834	-1.00
			024	16.500	1.84	073	16.010 R	-1.02				007	35.250	-1.63
--	Method 041.50	--	211	16.445	1.56				--	Method 050.10	--			
251	17.615 s	6.64	041	16.385	1.45	177	15.913	-1.25	322	38.409	-.71	--	Method 050.60	--
007	16.850 S	3.36	254	16.400	1.42	322	15.900	-1.28				390	39.155 R	2.37
360	16.205	1.04	296	16.415	1.40	325	15.840	-1.54	--	Method 050.30	--	309	38.750	1.05
023	16.100 R	.94	029	16.385	1.25	095	15.800	-1.74	193	39.350	1.50	288	37.960	.14
291	16.129	.78	401	16.250 R	.95	070	15.620	-2.66	157	38.506	.87	Avg	37.852	
361	16.105	.67	055	16.280	.71	393	15.445 A	-3.56	040	38.130	.68	415	36.846	-1.17
102	16.075	.57	018	16.200	.59	351	14.833 s	-6.69	234	38.210	.64			
Avg	15.917		177	16.255	.59				106	37.825	.49	--	Method 050.61	--
325	15.840	-.28	377	16.180	.55	--	Method 048.20	--	262	37.900	.40	018	39.450	1.45
070	15.620	-1.06	029	16.235	.48	362	14.810	.69	136	37.410	.10	024	38.755	.86
393	15.445 X	-1.69	043	16.225	.45	Avg	14.775		Avg	37.377		037	37.955	.20
			360	16.205	.43	193	14.740	-1.01	397	36.843	-.41	035	37.905	.15
--	Method 041.60	--	415	16.217	.43				142	36.630	-.57	Avg	37.731	
262	18.160 s	10.03	040	16.210	.39	--	Method 050.00	--	095	35.445	-1.47	025	37.315	-.36
024	16.500	1.74	220	16.175	.33	009	38.450	1.97	351	34.895	-1.89	049	37.125	-.52
296	16.415	1.31	136	16.175	.29	162	37.945 R	1.53				041	35.615	-1.79
018	16.200	.55	288	16.185	.23	090	38.255	1.49	--	Method 050.31	--			
377	16.180	.52	057	16.180	.23	414	38.060	.63	254	37.400	.86	--	Method 050.99	--
043	16.225	.38	Avg	16.141		211	38.050	.63	Avg	36.780		330	39.355 X	1.57
220	16.175	.30	086	16.135	-.04	043	37.930	.58	086	36.160	-.87	362	39.080	1.30
288	16.185	.17	037	16.125	-.15	073	38.020	.47				360	38.830	1.03
Avg	16.152		361	16.105	-.20	220	38.010	.44	--	Method 050.50	--	307	38.650	.75
037	16.125	-.18	028	16.100	-.21	148	38.000	.40	324	36.315	.42	260	38.635	.70
028	16.100	-.27	009	16.100	-.23	028	37.955	.25	Avg	36.100		232	38.290 X	.37
073	16.010	-1.03	397	16.088	-.27	029	37.885 X	.02	292	35.885	-1.15	153	38.069	.15
177	15.913	-1.28	291	16.129	-.28	Avg	37.884					028	38.045	.14
095	15.800	-1.76	102	16.075	-.36	350	37.880	-.14	--	Method 050.51	--	Avg	37.918	
351	14.833 s	-6.59	025	16.060	-.42	057	37.875	-.37	251	39.450 R	2.79	325	37.740	-.18

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 050.99	--	--	Method 050.XX	--	--	Method 050.XX	--	--	Method 101.XX	--	--	Method 144.99	--
177	37.756	-.21	148	38.000	.47	086	36.160	-1.38	035	5.5950	-.86	035	0.5905	1.22
376	37.700	-.24	037	37.955	.43	401	36.800 R	-1.50	193	5.4000	-1.70	Avg	0.5478	
369	37.470	-.46	288	37.960	.43	383	37.495 R	-1.66				401	0.5380	-.34
027	37.135	-.79	043	37.930	.43	291	35.834	-1.73	--	Method 121.00	--	009	0.5148	-.94
395	36.230	-1.65	028	37.955	.42	247	35.790	-1.75	193	0.5400	.00			
383	37.495 R	-1.67	035	37.905	.37	292	35.885 R	-1.86				--	Method 144.XX	--
401	36.800 R	-1.68	262	37.900	.37	041	35.615	-1.92	--	Method 121.30	--	035	0.5905	1.70
247	35.790	-2.08	057	37.875	.36	095	35.445	-2.09	102	0.5619	1.41	361	0.5450	.55
402	33.065 s	-4.78	029	37.885 X	.35	007	35.250	-2.35	131	0.5400	.49	401	0.5380	.23
			350	37.880	.35	351	34.895	-2.65	Avg	0.5275		Avg	0.5361	
--	Method 050.XX	--	177	37.756	.26	402	33.065 s	-4.52	361	0.5250	-.22	193	0.5350	-.03
390	39.155 R	2.27	325	37.740	.21				009	0.5176	-.39	009	0.5148	-.67
251	39.450 R	2.16	345	37.730	.21	--	Method 060.00	--	035	0.4930	-1.44	102	0.4933	-1.34
330	39.355 R	1.97	376	37.700	.21	361	0.9150	1.32						
018	39.450	1.92	326	37.585	.06	193	0.8700	.41	--	Method 121.99	--	--	Method 151.00	--
193	39.350	1.82	377	37.550	.05	Avg	0.8538		320	0.5259	-.71	200	42.450 S	.00
362	39.080	1.68	Avg	37.534		362	0.8250	-.70						
360	38.830	1.40	296	37.430	-.10	320	0.8050	-1.05	--	Method 121.XX	--	--	Method 151.30	--
309	38.750	1.23	300	37.500	-.11				102	0.5619	1.59	247	1.3000	.78
024	38.755	1.23	131	37.415	-.12	--	Method 101.30	--	131	0.5400	.51	102	1.3100	.75
307	38.650	1.14	254	37.400	-.13	361	5.9850	1.08	193	0.5400	.50	096	1.0000	.13
260	38.635	1.11	369	37.470	-.15	320	5.9760	1.01	Avg	0.5291		Avg	0.9300	
157	38.506	.99	136	37.410	-.18	102	5.8729	.69	320	0.5259	-.19	291	0.1100	-1.52
009	38.450	.92	393	37.500 X	-.20	Avg	5.8154		361	0.5250	-.29			
322	38.409	.88	025	37.315	-.25	009	5.7433	-.46	009	0.5176	-.53	--	Method 151.99	--
023	38.240	.86	070	37.195	-.34	131	5.7200	-.65	035	0.4930	-1.75	409	2.6500	.71
040	38.130	.77	049	37.125	-.42	035	5.5950	-1.48						
232	38.290 X	.76	027	37.135	-.44				--	Method 131.00	--	--	Method 151.XX	--
090	38.255	.75	397	36.843	-.70	--	Method 101.70	--	193	0.2250	.71	200	42.450 s	47.04
234	38.210	.69	415	36.846	-.70	193	5.4000	-.71				409	2.6500	1.60
162	37.945	.60	095	36.705	-.85				--	Method 144.01	--	247	1.3000	.23
106	37.825	.55	102	36.675	-.86	--	Method 101.XX	--	193	0.5350	.86	102	1.3100	.16
153	38.069	.54	142	36.630	-.91	361	5.9850	1.09	Avg	0.5141		Avg	1.2740	
414	38.060	.53	372	36.420	-1.12	320	5.9760	1.04	102	0.4933	-.87	096	1.0000	-.31
211	38.050	.52				102	5.8729	.71				291	0.1100	-1.33
028	38.045	.52	395	36.230	-1.31	Avg	5.7560		--	Method 144.03	--			
073	38.020	.49	392	36.225	-1.31	009	5.7433	-.09	361	0.5450	.71	--	Method 165.99	--
220	38.010	.48	361	36.200	-1.34	131	5.7200	-.26				009	0.0087	.71

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 181.00	--	--	Method 181.XX	--	--	Method 202.00	--	--	Method 221.00	--	--	Method 221.XX	--
200	225.00 s	190.32	397	9.4042	-.45	106	12.500	.92	106	0.0012 R	1.59	200	0.0010	.76
037	12.430	1.80	324	9.5500	-.51	193	11.500	.72	193	0.0011	.88	233	0.0009	.44
Avg	10.417		232	9.3500	-.57	200	11.500	.67	043	0.0010	.71	247	0.0009	.32
300	10.350	-.15	035	8.8950	-.91	Avg	8.6843		055	0.0011	.68	028	0.0009	.32
193	10.000	-.46	247	8.3500	-1.39	220	5.0000	-.88	029	0.0010	.43	Avg	0.0008	
220	9.9000	-.46	376	7.8450	-1.87	397	2.9217	-1.38	200	0.0010	.39	220	0.0007	-.30
397	9.4042	-.90							Avg	0.0009		096	0.0007	-.47
			--	Method 190.00	--	--	Method 202.30	--	233	0.0009	-.03	035	0.0007	-.47
--	Method 181.30	--	027	29.440	.71	291	4.6575 R	2.40	028	0.0009	-.34	009	0.0006	-.55
096	11.550	1.68				009	4.2850	1.98	157	0.0004	-2.30	057	0.0006	-.62
291	10.899	1.15	--	Method 190.99	--	Avg	2.1350					232	0.0006	-.75
102	9.9455	.46	009	29.759	.71	320	2.0000	-.12	--	Method 221.30	--	324	0.0005	-.80
009	9.8800	.27				096	2.0000	-.12	291	0.0030 s	21.99	330	0.0005	-.81
Avg	9.5849		--	Method 190.XX	--	232	1.9750	-.15	247	0.0009	2.16	157	0.0004	-1.32
232	9.3500	-.33	009	29.759	.86	324	1.6500	-.45	009	0.0006	.59	102	0.0003	-1.79
324	9.5500	-.39	Avg	29.599		247	0.9000	-1.14	035	0.0007	.49			
035	8.8950	-.60	027	29.440	-.87				096	0.0007	.49	--	Method 241.00	--
247	8.3500	-1.06				--	Method 202.99	--	Avg	0.0006		086	0.1375	.92
376	7.8450	-1.53	--	Method 191.00	--	409	3.3000	.71	057	0.0006	-.30	Avg	0.1288	
			193	108.00	.94				232	0.0006	-.69	193	0.1200	-.81
			Avg	105.50		--	Method 202.XX	--	324	0.0005	-.79			
--	Method 181.99	--	220	103.00	-.79	106	12.500	2.19	330	0.0005	-.90	--	Method 241.30	--
409	10.400	.86				193	11.500 R	1.94				131	0.1580	1.78
Avg	10.175		--	Method 191.30	--	200	11.500	1.92	--	Method 221.99	--	102	0.1479	.74
028	9.9500	-.88	009	101.55	1.25	291	4.6575	.19	409	0.0015	1.22	035	0.1475	.40
			Avg	92.425		220	5.0000	.16	Avg	0.0008		Avg	0.1472	
--	Method 181.XX	--	035	87.950	-.62	Avg	4.3908		220	0.0007	-.21	057	0.1454	-.30
200	225.00 s	190.04	102	87.776	-.74	009	4.2850	-.03	102	0.0003	-.99	320	0.1441	-.50
037	12.430	2.23				409	3.3000	-.34				009	0.1401	-1.13
096	11.550	1.45	--	Method 191.XX	--	397	2.9217	-.40	--	Method 221.XX	--			
291	10.899	.90	193	108.00	1.19	320	2.0000	-.64	291	0.0030 s	7.84	--	Method 241.XX	--
409	10.400	.43	220	103.00	.61	096	2.0000	-.64	086	0.0027 s	6.78	131	0.1580	1.44
300	10.350	.40	009	101.55	.44	232	1.9750	-.65	409	0.0015	2.44	102	0.1479	.65
102	9.9455	.36	Avg	97.655		324	1.6500	-.74	106	0.0012 R	1.59	035	0.1475	.51
193	10.000	.27	035	87.950	-1.09	247	0.9000	-.94	193	0.0011	1.15	057	0.1454	.27
028	9.9500	.05	102	87.776	-1.15				055	0.0011	.99	320	0.1441	.14
Avg	9.9187					--	Method 221.00	--	043	0.0010	.81	Avg	0.1426	
220	9.9000	-.02				086	0.0027 s	8.17	029	0.0010	.79	009	0.1401	-.23
009	9.8800	-.09												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 241.XX	--	--	Method 261.00	--	--	Method 289.30	--	--	Method 291.99	--	--	Method 301.XX	--
086	0.1375	-.62	193	0.0018	-.87	324	2.5500	.48	409	10.500	.96	131	1.3900	.34
193	0.1200	-2.06				Avg	2.4726		Avg	9.8500		Avg	1.1475	
--	Method 251.00	--	--	Method 261.30	--	102	2.4305	-.27	028	9.2000	-.77	220	1.1000 R	-.42
193	20.500	1.59	009	0.0022	1.45	247	2.2500	-.95				291	0.0000	-1.60
Avg	7.1538		035	0.0021	.50	096	2.0000	-1.34	--	Method 291.XX	--			
220	5.0000	-.26	102	0.0020	.50				200	345.00 s	149.89	--	Method 311.00	--
200	1.6000	-.66	Avg	0.0020		--	Method 289.99	--	193	14.000	2.23	193	1.1050	.71
037	1.5150	-.68	057	0.0020	-.80	409	3.5500	.71	291	12.499	1.61	--	Method 311.30	--
--	Method 251.30	--	320	0.0019	-1.11	--	Method 289.XX	--	409	10.500	.70	102	1.0787	.71
291	14.096 R	8.45	--	Method 261.XX	--	291	6.5795 s	7.91	096	9.5000	.31	--	Method 311.99	--
247	3.9500	1.16	086	0.0023	1.40	409	3.5500	1.85	009	9.3800	.21	009	1.0478	.89
Avg	2.2488		009	0.0022	1.00	057	3.0000	.72	Avg	9.0078		Avg	1.0289	
324	2.1000	-.23	035	0.0021	.35	Avg	2.6265		035	8.5150	-.27	035	1.0100	-.84
102	0.6963	-1.05	102	0.0020	.34	232	2.6050	-.21	102	8.3550	-.30	--	Method 311.XX	--
--	Method 251.99	--	Avg	0.0020		324	2.5500	-.33	397	7.5223	-.66	193	1.1050	1.38
409	3.6000	1.04	057	0.0020	-.49	102	2.4305	-.41	247	7.3500	-.74	102	1.0787	.55
Avg	3.1000		320	0.0019	-.69	247	2.2500	-.87	220	7.8000 R	-.76	Avg	1.0604	
376	2.6000	-.65	193	0.0018	-1.60	096	2.0000	-1.21	324	6.6500	-1.08	009	1.0478	-.31
--	Method 251.XX	--	--	Method 281.30	--	--	Method 291.00	--				035	1.0100	-1.09
193	20.500	2.67	291	0.0000	.00	200	345.00 S	99.70	--	Method 301.00	--	--	Method 321.00	--
291	14.096 R	1.72	--	Method 281.99	--	193	14.000	1.26	131	1.3900	.71	200	0.2875 s	346.82
220	5.0000	.06	376	0.0200	1.22	Avg	9.7741		--	Method 301.30	--	086	0.0440 s	59.03
Avg	4.6179		220	0.0200	.00	397	7.5223	-.67	247	1.6000	.87	233	0.0090	1.51
247	3.9500	-.12	Avg	0.0200		220	7.8000	-.69	Avg	0.8000		037	0.0085	.97
409	3.6000	-.23	--	Method 281.XX	--	--	Method 291.30	--	291	0.0000	-.86	055	0.0079	.56
376	2.6000	-.35	376	0.0200	.77	291	12.499 s	3.92	096	9.5000	1.39	029	0.0080	.13
324	2.1000	-.43	220	0.0200	.62	009	9.3800	1.24	009	9.3800	1.24	106	0.0079	.12
200	1.6000	-.51	Avg	0.0133		035	8.5150	.58	--	Method 301.99	--	193	0.0079	.01
037	1.5150	-.53	291	0.0000	-1.23	102	8.3550	.38	409	1.6000	.66	Avg	0.0079	
102	0.6963	-.66				Avg	7.9225		220	1.1000	-1.03	043	0.0075	-.50
--	Method 261.00	--	--	Method 289.30	--	247	7.3500	-.50	--	Method 301.XX	--	157	0.0064	-1.92
086	0.0023	.87	291	6.5795 s	12.06	232	7.1750	-.64	247	1.6000	.65	--	Method 321.30	--
Avg	0.0020		057	3.0000	1.50	324	6.6500	-1.16	409	1.6000	.63	251	0.0100	2.12
			232	2.6050	.48	376	6.4550	-1.24						

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
--	Method 321.30	--	--	Method 321.XX	--									
009	0.0087	.90	043	0.0075	-.20									
035	0.0081	.32	320	0.0074	-.36									
096	0.0080	.29	102	0.0074	-.41									
291	0.0080	.27	220	0.0071	-.62									
Avg	0.0077		057	0.0070	-.74									
330	0.0076	-.09	232	0.0069	-.80									
324	0.0076	-.13	028	0.0067	-.99									
320	0.0074	-.35	157	0.0064	-1.36									
102	0.0074 R	-.39	247	0.0056	-2.12									
057	0.0070	-.70	402	0.0050 s	-4.92									
232	0.0069	-.75												
247	0.0056	-1.94												
--	Method 321.99	--												
409	0.0095	1.28												
Avg	0.0078													
220	0.0071	-.51												
028	0.0067	-.78												
402	0.0050 S	-3.54												
--	Method 321.XX	--												
200	0.2875 s	286.19												
086	0.0440 s	48.85												
251	0.0100	2.38												
409	0.0095	1.90												
233	0.0090 R	1.45												
009	0.0087	1.03												
037	0.0085 R	.99												
055	0.0079	.54												
035	0.0081	.39												
096	0.0080	.35												
291	0.0080	.34												
029	0.0080	.34												
106	0.0079	.26												
193	0.0079	.24												
Avg	0.0077													
330	0.0076	-.07												
324	0.0076	-.12												

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.99	2	0.0000	1.22	0.01	050.XX	73	-0.0074	1.15	0.41
001.XX	2	0.0000	1.22	0.01	060.00	4	0.0000	1.05	0.21
005.00	3	0.0000	1.09	0.21	060.XX	4	0.0000	1.05	0.21
005.99	5	0.0000	1.06	0.07	101.30	6	0.0000	0.98	0.35
005.XX	8	-0.3094	1.29	0.26	101.XX	7	0.0000	1.00	0.26
008.10	4	0.0000	1.08	0.05	121.30	5	0.0000	1.00	0.32
008.XX	4	0.0000	1.08	0.05	121.XX	7	0.0000	0.98	0.32
010.11	12	0.0000	1.00	0.22	144.01	2	0.0000	1.22	0.04
010.12	7	0.0000	0.98	0.33	144.99	3	0.0000	1.11	0.14
010.60	48	0.2395	1.94	0.59	144.XX	6	0.0000	1.02	0.22
010.99	7	0.2197	1.04	0.95	151.30	4	0.0000	1.05	0.23
010.XX	71	0.1929	1.56	0.51	151.XX	6	7.8407	19.23	0.16
020.10	10	0.0000	1.01	0.20	181.00	6	31.7205	77.70	0.16
020.20	17	-0.6869	2.32	0.36	181.30	9	0.0000	1.00	0.25
020.40	5	0.0000	1.04	0.18	181.99	2	0.0000	1.21	0.13
020.50	3	1.0824	2.05	1.64	181.XX	17	11.1788	46.10	0.21
020.99	3	0.0000	1.11	0.14	190.XX	2	0.0000	1.22	0.08
020.XX	37	-0.2810	1.99	0.48	191.00	2	0.0000	1.04	0.46
					191.30	3	0.0000	1.08	0.22
030.20	4	0.0000	1.02	0.32	191.XX	5	0.0000	1.04	0.18
030.XX	7	0.0000	0.99	0.30	202.00	5	0.0000	1.05	0.13
040.20	4	0.0000	0.98	0.38	202.30	7	0.3325	1.30	0.23
040.XX	6	0.0000	0.96	0.38	202.XX	13	0.1475	1.11	0.11
041.10	17	0.0609	0.99	0.30	221.00	10	0.9280	2.71	0.43
041.20	4	79.6626	159.33	0.15	221.30	9	2.4437	7.39	0.35
041.40	4	0.0000	1.06	0.16	221.99	3	0.0000	1.10	0.17
041.50	10	1.0007	2.22	0.92	221.XX	22	0.7246	2.34	0.27
041.60	14	0.2457	3.43	0.32	241.00	2	0.0000	1.15	0.30
041.XX	47	4.0919	26.82	0.69	241.30	6	0.0000	0.95	0.40
048.20	2	0.0000	0.94	0.55	241.XX	8	0.0000	1.00	0.25
048.XX	2	0.0000	0.94	0.55	251.00	4	0.0000	1.08	0.04
050.00	21	-0.7020	2.01	0.43	251.30	4	2.0076	4.12	1.33
050.30	11	0.0000	1.01	0.17	251.99	2	0.0000	0.71	0.70
050.31	2	0.0000	1.22	0.06	251.XX	10	0.1595	1.09	0.22
050.50	2	0.0000	0.40	0.82	261.00	2	0.0000	1.20	0.17
050.51	9	0.2909	1.27	0.42	261.30	5	0.0000	0.98	0.36
050.60	4	0.3770	1.18	0.92	261.XX	7	0.0000	1.00	0.25
050.61	7	0.0000	1.04	0.06	281.99	2	0.0000	0.00	0.87
050.99	18	-0.3475	1.43	0.57	281.XX	3	0.0000	1.07	0.27

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
289.30	7	1.6688	4.50	1.19					
289.XX	8	0.9558	2.85	0.77					
291.00	4	24.9240	49.86	0.18					
291.30	9	0.4264	1.58	0.37					
291.99	2	0.0000	1.07	0.42					
291.XX	15	9.9568	38.72	0.21					
301.30	2	0.0000	1.22	0.08					
301.99	2	0.0000	0.93	0.56					
301.XX	5	-0.0133	0.93	0.20					
311.99	2	0.0000	1.18	0.22					
311.XX	4	0.0000	0.89	0.53					
321.00	10	39.1606	109.02	12.17					
321.30	12	-0.0271	0.98	0.10					
321.99	4	-0.5036	1.35	1.46					
321.XX	25	12.8384	57.44	6.40					