



**AAFCO**  
Association of American Feed Control Officials



**Minerals Scheme**

**Rice Bran**

**Test Material Code # 202252**

**Analyte Proficiency Testing Report**

**# Labs Reporting: 38**

**# Analytes Reported 16**

**Issue Date : 07/31/2022**

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
015	Aluminum (ppm)	0510	64.00	0.0000	104.2	8.281	2.803	19	-4.85	015.43	0
015	Aluminum (ppm)	2292	80.50	1.000	104.2	8.281	2.803	19	-2.86	015.99	0
015	Aluminum (ppm)	0407	91.34	4.573	104.2	8.281	2.803	19	-1.55	015.53	0
015	Aluminum (ppm)	0511	94.50	1.000	104.2	8.281	2.803	19	-1.17	015.43	0
015	Aluminum (ppm)	0407	96.94	0.3746	104.2	8.281	2.803	19	-0.87	015.41	0
015	Aluminum (ppm)	0870	97.82	5.770	104.2	8.281	2.803	19	-0.77	015.43	0
015	Aluminum (ppm)	0160	98.10	3.400	104.2	8.281	2.803	19	-0.73	015.42	0
015	Aluminum (ppm)	0098	98.88	7.050	104.2	8.281	2.803	19	-0.64	015.43	0
015	Aluminum (ppm)	0208	100.6	6.900	104.2	8.281	2.803	19	-0.44	015.41	0
015	Aluminum (ppm)	0148	103.6	10.42	104.2	8.281	2.803	19	-0.07	015.43	0
015	Aluminum (ppm)	0553	107.0	0.0000	104.2	8.281	2.803	19	0.34	015.53	0
015	Aluminum (ppm)	0186	108.2	0.4000	104.2	8.281	2.803	19	0.49	015.52	0
015	Aluminum (ppm)	0021	110.0	0.0000	104.2	8.281	2.803	19	0.70	015.43	0
015	Aluminum (ppm)	0227	111.0	0.0000	104.2	8.281	2.803	19	0.83	015.41	0
015	Aluminum (ppm)	0629	112.5	1.000	104.2	8.281	2.803	19	1.01	015.43	0
015	Aluminum (ppm)	0278	113.2	2.460	104.2	8.281	2.803	19	1.09	015.43	0
015	Aluminum (ppm)	0964	119.5	3.000	104.2	8.281	2.803	19	1.85	015.43	0
015	Aluminum (ppm)	2302	123.5	1.000	104.2	8.281	2.803	19	2.34	015.99	0
015	Aluminum (ppm)	0047	131.1	4.920	104.2	8.281	2.803	19	3.25	015.52	0
015	Aluminum (ppm)	0042	424.5	67.00	104.2	8.281	2.803	19	38.68	015.42	2
017	Boron (ppm)	0407	76.63	5.845	79.63	6.592	2.613	11	-0.45	017.41	0
017	Boron (ppm)	0407	76.99	5.030	79.63	6.592	2.613	11	-0.40	017.53	0
017	Boron (ppm)	0510	77.00	0.0000	79.63	6.592	2.613	11	-0.40	017.43	0
017	Boron (ppm)	0629	77.20	1.000	79.63	6.592	2.613	11	-0.37	017.43	0
017	Boron (ppm)	0160	78.45	0.9000	79.63	6.592	2.613	11	-0.18	017.42	0
017	Boron (ppm)	0098	80.15	1.510	79.63	6.592	2.613	11	0.08	017.43	0
017	Boron (ppm)	0870	80.18	3.150	79.63	6.592	2.613	11	0.08	017.43	0
017	Boron (ppm)	0918	80.19	5.410	79.63	6.592	2.613	11	0.08	017.43	0
017	Boron (ppm)	0964	82.10	1.200	79.63	6.592	2.613	11	0.37	017.43	0
017	Boron (ppm)	0021	83.00	0.0000	79.63	6.592	2.613	11	0.51	017.43	0
017	Boron (ppm)	0553	92.15	4.700	79.63	6.592	2.613	11	1.90	017.53	0
021	Cobalt (ppm)	0148	0.1560	0.0020	0.2391	0.0474	0.0128	15	-1.75	021.43	0
021	Cobalt (ppm)	0047	0.1715	0.0070	0.2391	0.0474	0.0128	15	-1.42	021.52	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
021	Cobalt (ppm)	0910	0.1900	0.0000	0.2391	0.0474	0.0128	15	-1.03	021.52	0
021	Cobalt (ppm)	0510	0.2200	0.0000	0.2391	0.0474	0.0128	15	-0.40	021.43	0
021	Cobalt (ppm)	0553	0.2255	0.0090	0.2391	0.0474	0.0128	15	-0.29	021.53	0
021	Cobalt (ppm)	0033	0.2260	0.0040	0.2391	0.0474	0.0128	15	-0.28	021.53	0
021	Cobalt (ppm)	0098	0.2290	0.0140	0.2391	0.0474	0.0128	15	-0.21	021.53	0
021	Cobalt (ppm)	0572	0.2425	0.0070	0.2391	0.0474	0.0128	15	0.07	021.53	0
021	Cobalt (ppm)	0629	0.2450	0.0300	0.2391	0.0474	0.0128	15	0.12	021.43	0
021	Cobalt (ppm)	0021	0.2450	0.0100	0.2391	0.0474	0.0128	15	0.12	021.53	0
021	Cobalt (ppm)	0407	0.2457	0.0248	0.2391	0.0474	0.0128	15	0.14	021.53	0
021	Cobalt (ppm)	0964	0.2725	0.0010	0.2391	0.0474	0.0128	15	0.70	021.43	0
021	Cobalt (ppm)	0278	0.2800	0.0200	0.2391	0.0474	0.0128	15	0.86	021.43	0
021	Cobalt (ppm)	0407	0.3189	0.0333	0.2391	0.0474	0.0128	15	1.68	021.41	0
021	Cobalt (ppm)	0186	0.5750	0.0300	0.2391	0.0474	0.0128	15	7.08	021.52	0
021	Cobalt (ppm)	2302	0.0000	0.0000	0.2391	0.0474	0.0128	15		021.99	4
021	Cobalt (ppm)	0227	< 0.5		0.2391	0.0474	0.0128	15		021.41	5
021	Cobalt (ppm)	0021	< 2		0.2391	0.0474	0.0128	15		021.43	5
021	Cobalt (ppm)	0563	< 5		0.2391	0.0474	0.0128	15		021.31	5
021	Cobalt (ppm)	2141	< 5		0.2391	0.0474	0.0128	15		021.43	5
022	Copper (ppm)	0047	229.9	2.900	260.1	18.02	8.639	32	-1.68	022.52	0
022	Copper (ppm)	0918	239.5	5.080	260.1	18.02	8.639	32	-1.14	022.43	0
022	Copper (ppm)	0407	241.4	6.818	260.1	18.02	8.639	32	-1.04	022.41	0
022	Copper (ppm)	0098	242.3	9.700	260.1	18.02	8.639	32	-0.99	022.53	0
022	Copper (ppm)	0511	243.5	9.000	260.1	18.02	8.639	32	-0.92	022.43	0
022	Copper (ppm)	0202	244.5	9.000	260.1	18.02	8.639	32	-0.87	022.43	0
022	Copper (ppm)	0186	247.0	2.000	260.1	18.02	8.639	32	-0.73	022.52	0
022	Copper (ppm)	0553	248.5	9.000	260.1	18.02	8.639	32	-0.64	022.53	0
022	Copper (ppm)	0148	250.3	14.27	260.1	18.02	8.639	32	-0.54	022.43	0
022	Copper (ppm)	0510	251.0	2.000	260.1	18.02	8.639	32	-0.51	022.43	0
022	Copper (ppm)	0910	252.0	22.00	260.1	18.02	8.639	32	-0.45	022.41	0
022	Copper (ppm)	0572	254.5	17.00	260.1	18.02	8.639	32	-0.31	022.53	0
022	Copper (ppm)	0051	255.1	5.090	260.1	18.02	8.639	32	-0.28	022.44	0
022	Copper (ppm)	2141	255.8	6.340	260.1	18.02	8.639	32	-0.24	022.43	0
022	Copper (ppm)	0208	256.2	15.00	260.1	18.02	8.639	32	-0.22	022.41	0
022	Copper (ppm)	0407	256.7	1.740	260.1	18.02	8.639	32	-0.19	022.53	0
022	Copper (ppm)	0629	259.5	9.000	260.1	18.02	8.639	32	-0.03	022.43	0
022	Copper (ppm)	0021	260.0	0.0000	260.1	18.02	8.639	32	-0.01	022.43	0
022	Copper (ppm)	0021	260.0	20.00	260.1	18.02	8.639	32	-0.01	022.53	0
022	Copper (ppm)	0017	263.9	13.72	260.1	18.02	8.639	32	0.21	022.43	0
022	Copper (ppm)	0278	264.8	9.300	260.1	18.02	8.639	32	0.26	022.42	0
022	Copper (ppm)	0227	265.0	10.00	260.1	18.02	8.639	32	0.27	022.41	0
022	Copper (ppm)	0208	268.5	5.000	260.1	18.02	8.639	32	0.46	022.31	0
022	Copper (ppm)	0529	271.5	3.900	260.1	18.02	8.639	32	0.63	022.31	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
022	Copper (ppm)	0010	271.5	5.000	260.1	18.02	8.639	32	0.63	022.33	0
022	Copper (ppm)	0009	277.0	28.00	260.1	18.02	8.639	32	0.94	022.42	0
022	Copper (ppm)	0160	277.0	8.000	260.1	18.02	8.639	32	0.94	022.42	0
022	Copper (ppm)	2302	278.5	3.000	260.1	18.02	8.639	32	1.02	022.99	0
022	Copper (ppm)	2292	279.5	1.000	260.1	18.02	8.639	32	1.08	022.99	0
022	Copper (ppm)	0563	285.4	0.4530	260.1	18.02	8.639	32	1.40	022.31	0
022	Copper (ppm)	0964	299.3	5.500	260.1	18.02	8.639	32	2.17	022.43	0
022	Copper (ppm)	0870	308.6	17.64	260.1	18.02	8.639	32	2.69	022.43	0
023	Fluorine (ppm)	2033	41.20	0.8000				2		023.01	0
023	Fluorine (ppm)	0227	44.00	0.0000				2		023.01	0
024	Iodine (ppm)	0186	93.00	4.000				3		024.52	0
024	Iodine (ppm)	0910	108.4	16.16				3		024.52	0
024	Iodine (ppm)	0160	114.0	2.000				3		024.52	0
034	Selenium, Total (Se) (ppm)	0563	0.1429	0.0175	0.3510	0.0657	0.0330	15	-3.17	034.04	0
034	Selenium, Total (Se) (ppm)	0553	0.2415	0.0050	0.3510	0.0657	0.0330	15	-1.67	034.53	0
034	Selenium, Total (Se) (ppm)	0227	0.2505	0.0050	0.3510	0.0657	0.0330	15	-1.53	034.53	0
034	Selenium, Total (Se) (ppm)	0047	0.2515	0.0070	0.3510	0.0657	0.0330	15	-1.51	034.52	0
034	Selenium, Total (Se) (ppm)	0033	0.2665	0.0330	0.3510	0.0657	0.0330	15	-1.29	034.53	0
034	Selenium, Total (Se) (ppm)	0021	0.2750	0.0100	0.3510	0.0657	0.0330	15	-1.16	034.53	0
034	Selenium, Total (Se) (ppm)	0148	0.2840	0.0020	0.3510	0.0657	0.0330	15	-1.02	034.42	0
034	Selenium, Total (Se) (ppm)	0098	0.3025	0.0170	0.3510	0.0657	0.0330	15	-0.74	034.53	0
034	Selenium, Total (Se) (ppm)	0278	0.3050	0.0100	0.3510	0.0657	0.0330	15	-0.70	034.53	0
034	Selenium, Total (Se) (ppm)	0208	0.3315	0.0090	0.3510	0.0657	0.0330	15	-0.30	034.52	0
034	Selenium, Total (Se) (ppm)	0407	0.3826	0.0070	0.3510	0.0657	0.0330	15	0.48	034.53	0
034	Selenium, Total (Se) (ppm)	0010	0.4500	0.1000	0.3510	0.0657	0.0330	15	1.51	034.53	0
034	Selenium, Total (Se) (ppm)	0910	0.7650	0.1100	0.3510	0.0657	0.0330	15	6.30	034.52	0
034	Selenium, Total (Se) (ppm)	0186	1.741	0.1320	0.3510	0.0657	0.0330	15	21.15	034.52	0
034	Selenium, Total (Se) (ppm)	0629	1.795	0.0300	0.3510	0.0657	0.0330	15	21.97	034.43	0
034	Selenium, Total (Se) (ppm)	0964	< 1		0.3510	0.0657	0.0330	15		034.43	5
034	Selenium, Total (Se) (ppm)	0572	< 1		0.3510	0.0657	0.0330	15		034.53	5
034	Selenium, Total (Se) (ppm)	2141	< 5		0.3510	0.0657	0.0330	15		034.43	5
034	Selenium, Total (Se) (ppm)	0160	< 10		0.3510	0.0657	0.0330	15		034.42	5
034	Selenium, Total (Se) (ppm)	0021	< 22		0.3510	0.0657	0.0330	15		034.43	5
036	Sulfur (%)	2302	0.1850	0.0100	0.2179	0.0110	0.0053	17	-3.00	036.99	0
036	Sulfur (%)	2292	0.1985	0.0030	0.2179	0.0110	0.0053	17	-1.77	036.99	0
036	Sulfur (%)	2141	0.2003	0.0026	0.2179	0.0110	0.0053	17	-1.61	036.43	0
036	Sulfur (%)	0553	0.2085	0.0050	0.2179	0.0110	0.0053	17	-0.86	036.53	0
036	Sulfur (%)	0918	0.2095	0.0090	0.2179	0.0110	0.0053	17	-0.77	036.43	0
036	Sulfur (%)	0278	0.2100	0.0000	0.2179	0.0110	0.0053	17	-0.72	036.42	0
036	Sulfur (%)	0510	0.2100	0.0000	0.2179	0.0110	0.0053	17	-0.72	036.43	0
036	Sulfur (%)	0870	0.2101	0.0029	0.2179	0.0110	0.0053	17	-0.72	036.42	0
036	Sulfur (%)	0186	0.2145	0.0024	0.2179	0.0110	0.0053	17	-0.31	036.42	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
036	Sulfur (%)	0227	0.2200	0.0000	0.2179	0.0110	0.0053	17	0.19	036.42	0
036	Sulfur (%)	0021	0.2250	0.0100	0.2179	0.0110	0.0053	17	0.64	036.43	0
036	Sulfur (%)	0202	0.2250	0.0100	0.2179	0.0110	0.0053	17	0.64	036.43	0
036	Sulfur (%)	0098	0.2305	0.0070	0.2179	0.0110	0.0053	17	1.15	036.43	0
036	Sulfur (%)	0629	0.2350	0.0100	0.2179	0.0110	0.0053	17	1.56	036.43	0
036	Sulfur (%)	0964	0.2350	0.0014	0.2179	0.0110	0.0053	17	1.56	036.43	0
036	Sulfur (%)	0407	0.2378	0.0163	0.2179	0.0110	0.0053	17	1.81	036.42	0
036	Sulfur (%)	0186	0.2428	0.0008	0.2179	0.0110	0.0053	17	2.27	036.52	0
036	Sulfur (%)	0910	0.2150	0.0300	0.2179	0.0110	0.0053	17	-0.27	036.42	1
038	Molybdenum (ppm)	2302	25.00	0.0000	41.29	3.773	1.294	26	-4.32	038.99	0
038	Molybdenum (ppm)	0563	27.35	0.3000	41.29	3.773	1.294	26	-3.69	038.34	0
038	Molybdenum (ppm)	0208	37.35	0.3000	41.29	3.773	1.294	26	-1.04	038.41	0
038	Molybdenum (ppm)	0511	39.00	0.0000	41.29	3.773	1.294	26	-0.61	038.43	0
038	Molybdenum (ppm)	0160	40.00	0.4000	41.29	3.773	1.294	26	-0.34	038.42	0
038	Molybdenum (ppm)	0510	40.30	0.2000	41.29	3.773	1.294	26	-0.26	038.43	0
038	Molybdenum (ppm)	0407	40.30	1.471	41.29	3.773	1.294	26	-0.26	038.41	0
038	Molybdenum (ppm)	0010	40.35	1.300	41.29	3.773	1.294	26	-0.25	038.53	0
038	Molybdenum (ppm)	0278	40.51	2.390	41.29	3.773	1.294	26	-0.21	038.42	0
038	Molybdenum (ppm)	0042	41.05	1.900	41.29	3.773	1.294	26	-0.06	038.42	0
038	Molybdenum (ppm)	0098	41.07	0.7600	41.29	3.773	1.294	26	-0.06	038.53	0
038	Molybdenum (ppm)	0047	41.19	0.7900	41.29	3.773	1.294	26	-0.03	038.52	0
038	Molybdenum (ppm)	0186	41.45	0.5000	41.29	3.773	1.294	26	0.04	038.52	0
038	Molybdenum (ppm)	0227	41.50	1.000	41.29	3.773	1.294	26	0.06	038.53	0
038	Molybdenum (ppm)	0553	41.75	0.1000	41.29	3.773	1.294	26	0.12	038.53	0
038	Molybdenum (ppm)	0407	41.80	0.0029	41.29	3.773	1.294	26	0.14	038.53	0
038	Molybdenum (ppm)	0629	42.00	0.6000	41.29	3.773	1.294	26	0.19	038.43	0
038	Molybdenum (ppm)	0021	42.00	4.000	41.29	3.773	1.294	26	0.19	038.53	0
038	Molybdenum (ppm)	0964	42.07	0.0700	41.29	3.773	1.294	26	0.21	038.43	0
038	Molybdenum (ppm)	0033	42.20	3.000	41.29	3.773	1.294	26	0.24	038.53	0
038	Molybdenum (ppm)	0910	42.44	4.000	41.29	3.773	1.294	26	0.30	038.52	0
038	Molybdenum (ppm)	0021	42.50	1.000	41.29	3.773	1.294	26	0.32	038.43	0
038	Molybdenum (ppm)	0572	42.60	2.200	41.29	3.773	1.294	26	0.35	038.53	0
038	Molybdenum (ppm)	0148	43.55	5.530	41.29	3.773	1.294	26	0.60	038.43	0
038	Molybdenum (ppm)	2141	44.42	0.4730	41.29	3.773	1.294	26	0.83	038.43	0
038	Molybdenum (ppm)	0870	44.60	1.365	41.29	3.773	1.294	26	0.88	038.43	0
041	Vanadium (ppm)	0098	0.0690	0.0020	0.0800	0.0176	0.0038	5		041.53	0
041	Vanadium (ppm)	0407	0.0816	0.0004	0.0800	0.0176	0.0038	5		041.53	0
041	Vanadium (ppm)	0553	0.0842	0.0068	0.0800	0.0176	0.0038	5		041.53	0
041	Vanadium (ppm)	0278	0.0850	0.0100	0.0800	0.0176	0.0038	5		041.43	0
041	Vanadium (ppm)	0629	0.1300	0.0000	0.0800	0.0176	0.0038	5		041.43	0
041	Vanadium (ppm)	0511	17.50	1.000	0.0800	0.0176	0.0038	5		041.43	1
041	Vanadium (ppm)	0021	< 0.2		0.0800	0.0176	0.0038	5		041.53	5

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
041	Vanadium (ppm)	0160	< 0.5		0.0800	0.0176	0.0038	5		041.42	5
041	Vanadium (ppm)	0563	< 1.2		0.0800	0.0176	0.0038	5		041.34	5
041	Vanadium (ppm)	0021	< 2		0.0800	0.0176	0.0038	5		041.43	5
516	Arsenic, Total (As) (ppm)	0148	2.260	0.0200	2.888	0.3938	0.0699	24	-1.59	516.43	0
516	Arsenic, Total (As) (ppm)	0047	2.374	0.0240	2.888	0.3938	0.0699	24	-1.30	516.52	0
516	Arsenic, Total (As) (ppm)	0656	2.417	0.0000	2.888	0.3938	0.0699	24	-1.20	516.34	0
516	Arsenic, Total (As) (ppm)	0553	2.620	0.0200	2.888	0.3938	0.0699	24	-0.68	516.53	0
516	Arsenic, Total (As) (ppm)	0043	2.709	0.0327	2.888	0.3938	0.0699	24	-0.45	516.53	0
516	Arsenic, Total (As) (ppm)	0227	2.720	0.2400	2.888	0.3938	0.0699	24	-0.43	516.53	0
516	Arsenic, Total (As) (ppm)	0186	2.760	0.0200	2.888	0.3938	0.0699	24	-0.32	516.52	0
516	Arsenic, Total (As) (ppm)	0006	2.778	0.0240	2.888	0.3938	0.0699	24	-0.28	516.53	0
516	Arsenic, Total (As) (ppm)	0033	2.840	0.1200	2.888	0.3938	0.0699	24	-0.12	516.53	0
516	Arsenic, Total (As) (ppm)	0723	2.847	0.1780	2.888	0.3938	0.0699	24	-0.10	516.43	0
516	Arsenic, Total (As) (ppm)	0870	2.860	0.0116	2.888	0.3938	0.0699	24	-0.07	516.43	0
516	Arsenic, Total (As) (ppm)	0021	2.900	0.2000	2.888	0.3938	0.0699	24	0.03	516.53	0
516	Arsenic, Total (As) (ppm)	0425	2.907	0.0538	2.888	0.3938	0.0699	24	0.05	516.34	0
516	Arsenic, Total (As) (ppm)	0098	2.916	0.0300	2.888	0.3938	0.0699	24	0.07	516.53	0
516	Arsenic, Total (As) (ppm)	0572	2.930	0.1400	2.888	0.3938	0.0699	24	0.11	516.53	0
516	Arsenic, Total (As) (ppm)	0910	2.930	0.0000	2.888	0.3938	0.0699	24	0.11	516.52	0
516	Arsenic, Total (As) (ppm)	0964	2.972	0.0500	2.888	0.3938	0.0699	24	0.21	516.43	0
516	Arsenic, Total (As) (ppm)	0511	3.000	0.0000	2.888	0.3938	0.0699	24	0.29	516.43	0
516	Arsenic, Total (As) (ppm)	0010	3.000	0.2000	2.888	0.3938	0.0699	24	0.29	516.53	0
516	Arsenic, Total (As) (ppm)	0208	3.125	0.2100	2.888	0.3938	0.0699	24	0.60	516.52	0
516	Arsenic, Total (As) (ppm)	0278	3.215	0.0100	2.888	0.3938	0.0699	24	0.83	516.53	0
516	Arsenic, Total (As) (ppm)	2171	3.262	0.0214	2.888	0.3938	0.0699	24	0.95	516.53	0
516	Arsenic, Total (As) (ppm)	0407	3.278	0.0613	2.888	0.3938	0.0699	24	0.99	516.53	0
516	Arsenic, Total (As) (ppm)	0629	3.875	0.0100	2.888	0.3938	0.0699	24	2.51	516.43	0
516	Arsenic, Total (As) (ppm)	2302	0.0000	0.0000	2.888	0.3938	0.0699	24		516.99	4
516	Arsenic, Total (As) (ppm)	0021	< 5		2.888	0.3938	0.0699	24		516.43	5
516	Arsenic, Total (As) (ppm)	2141	< 5		2.888	0.3938	0.0699	24		516.43	5
516	Arsenic, Total (As) (ppm)	0160	< 10		2.888	0.3938	0.0699	24		516.42	5
518	Cadmium (ppm)	0656	0.4100	0.0000	0.5560	0.0972	0.0179	24	-1.50	518.34	0
518	Cadmium (ppm)	0629	0.4500	0.0200	0.5560	0.0972	0.0179	24	-1.09	518.43	0
518	Cadmium (ppm)	0047	0.4710	0.0020	0.5560	0.0972	0.0179	24	-0.88	518.52	0
518	Cadmium (ppm)	0407	0.4867	0.0111	0.5560	0.0972	0.0179	24	-0.71	518.41	0
518	Cadmium (ppm)	0186	0.5375	0.0050	0.5560	0.0972	0.0179	24	-0.19	518.52	0
518	Cadmium (ppm)	0006	0.5375	0.0110	0.5560	0.0972	0.0179	24	-0.19	518.53	0
518	Cadmium (ppm)	0425	0.5393	0.0028	0.5560	0.0972	0.0179	24	-0.17	518.34	0
518	Cadmium (ppm)	0021	0.5400	0.0400	0.5560	0.0972	0.0179	24	-0.17	518.53	0
518	Cadmium (ppm)	0910	0.5450	0.0100	0.5560	0.0972	0.0179	24	-0.11	518.52	0
518	Cadmium (ppm)	0964	0.5454	0.0113	0.5560	0.0972	0.0179	24	-0.11	518.43	0
518	Cadmium (ppm)	0043	0.5456	0.0047	0.5560	0.0972	0.0179	24	-0.11	518.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
518	Cadmium (ppm)	0208	0.5495	0.0510	0.5560	0.0972	0.0179	24	-0.07	518.52	0
518	Cadmium (ppm)	0098	0.5525	0.0430	0.5560	0.0972	0.0179	24	-0.04	518.53	0
518	Cadmium (ppm)	0033	0.5620	0.0360	0.5560	0.0972	0.0179	24	0.06	518.53	0
518	Cadmium (ppm)	0553	0.5635	0.0010	0.5560	0.0972	0.0179	24	0.08	518.53	0
518	Cadmium (ppm)	0148	0.5650	0.0500	0.5560	0.0972	0.0179	24	0.09	518.43	0
518	Cadmium (ppm)	0563	0.5700	0.0400	0.5560	0.0972	0.0179	24	0.14	518.31	0
518	Cadmium (ppm)	0227	0.5735	0.0010	0.5560	0.0972	0.0179	24	0.18	518.53	0
518	Cadmium (ppm)	0407	0.5748	0.0073	0.5560	0.0972	0.0179	24	0.19	518.53	0
518	Cadmium (ppm)	0010	0.6000	0.0000	0.5560	0.0972	0.0179	24	0.45	518.53	0
518	Cadmium (ppm)	0278	0.6250	0.0300	0.5560	0.0972	0.0179	24	0.71	518.43	0
518	Cadmium (ppm)	0572	0.6355	0.0210	0.5560	0.0972	0.0179	24	0.82	518.53	0
518	Cadmium (ppm)	2171	0.6519	0.0115	0.5560	0.0972	0.0179	24	0.99	518.53	0
518	Cadmium (ppm)	0870	0.6652	0.0192	0.5560	0.0972	0.0179	24	1.12	518.43	0
518	Cadmium (ppm)	0042	1.190	0.1800	0.5560	0.0972	0.0179	24	6.52	518.42	1
518	Cadmium (ppm)	2302	0.0000	0.0000	0.5560	0.0972	0.0179	24		518.99	4
518	Cadmium (ppm)	0160	< 0.5		0.5560	0.0972	0.0179	24		518.42	5
518	Cadmium (ppm)	0021	< 2		0.5560	0.0972	0.0179	24		518.43	5
518	Cadmium (ppm)	2141	< 5		0.5560	0.0972	0.0179	24		518.43	5
520	Chromium, Total (Cr) (ppm)	0047	10.89	0.3200	13.51	1.461	0.4268	25	-1.79	520.52	0
520	Chromium, Total (Cr) (ppm)	0870	10.89	0.7475	13.51	1.461	0.4268	25	-1.79	520.43	0
520	Chromium, Total (Cr) (ppm)	0563	11.05	0.1638	13.51	1.461	0.4268	25	-1.68	520.31	0
520	Chromium, Total (Cr) (ppm)	0407	11.17	0.5727	13.51	1.461	0.4268	25	-1.61	520.41	0
520	Chromium, Total (Cr) (ppm)	0511	12.50	1.000	13.51	1.461	0.4268	25	-0.69	520.43	0
520	Chromium, Total (Cr) (ppm)	0160	12.80	0.0000	13.51	1.461	0.4268	25	-0.49	520.42	0
520	Chromium, Total (Cr) (ppm)	2141	13.21	0.2600	13.51	1.461	0.4268	25	-0.21	520.43	0
520	Chromium, Total (Cr) (ppm)	0910	13.29	0.1700	13.51	1.461	0.4268	25	-0.16	520.52	0
520	Chromium, Total (Cr) (ppm)	0042	13.45	0.9000	13.51	1.461	0.4268	25	-0.04	520.42	0
520	Chromium, Total (Cr) (ppm)	0723	13.50	0.1280	13.51	1.461	0.4268	25	-0.01	520.43	0
520	Chromium, Total (Cr) (ppm)	0033	13.50	0.6000	13.51	1.461	0.4268	25	-0.01	520.53	0
520	Chromium, Total (Cr) (ppm)	0098	13.50	0.4000	13.51	1.461	0.4268	25	-0.01	520.53	0
520	Chromium, Total (Cr) (ppm)	0227	13.60	0.0000	13.51	1.461	0.4268	25	0.06	520.53	0
520	Chromium, Total (Cr) (ppm)	0510	13.67	0.1300	13.51	1.461	0.4268	25	0.10	520.43	0
520	Chromium, Total (Cr) (ppm)	0407	13.67	0.5762	13.51	1.461	0.4268	25	0.11	520.53	0
520	Chromium, Total (Cr) (ppm)	0148	13.79	1.509	13.51	1.461	0.4268	25	0.19	520.43	0
520	Chromium, Total (Cr) (ppm)	0208	14.00	0.2000	13.51	1.461	0.4268	25	0.33	520.41	0
520	Chromium, Total (Cr) (ppm)	0006	14.02	0.1620	13.51	1.461	0.4268	25	0.35	520.53	0
520	Chromium, Total (Cr) (ppm)	0186	14.18	0.0300	13.51	1.461	0.4268	25	0.45	520.52	0
520	Chromium, Total (Cr) (ppm)	0553	14.20	0.0000	13.51	1.461	0.4268	25	0.47	520.53	0
520	Chromium, Total (Cr) (ppm)	0964	14.25	0.3000	13.51	1.461	0.4268	25	0.51	520.43	0
520	Chromium, Total (Cr) (ppm)	0629	14.30	0.2000	13.51	1.461	0.4268	25	0.54	520.43	0
520	Chromium, Total (Cr) (ppm)	0010	14.45	0.7000	13.51	1.461	0.4268	25	0.64	520.53	0
520	Chromium, Total (Cr) (ppm)	0021	14.50	1.000	13.51	1.461	0.4268	25	0.68	520.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
520	Chromium, Total (Cr) (ppm)	0278	16.11	0.6000	13.51	1.461	0.4268	25	1.78	520.43	0
520	Chromium, Total (Cr) (ppm)	2302	0.0000	0.0000	13.51	1.461	0.4268	25		520.99	4
520	Chromium, Total (Cr) (ppm)	0021	< 22		13.51	1.461	0.4268	25		520.43	5
526	Lead (ppm)	0656	22.42	0.0000	58.78	5.093	1.622	30	-7.14	526.34	0
526	Lead (ppm)	0511	50.50	1.000	58.78	5.093	1.622	30	-1.63	526.43	0
526	Lead (ppm)	0160	54.25	0.9000	58.78	5.093	1.622	30	-0.89	526.42	0
526	Lead (ppm)	0021	55.00	4.000	58.78	5.093	1.622	30	-0.74	526.53	0
526	Lead (ppm)	0010	55.05	3.300	58.78	5.093	1.622	30	-0.73	526.53	0
526	Lead (ppm)	0186	55.24	0.1500	58.78	5.093	1.622	30	-0.70	526.52	0
526	Lead (ppm)	0870	55.56	0.0066	58.78	5.093	1.622	30	-0.63	526.43	0
526	Lead (ppm)	0227	55.85	2.100	58.78	5.093	1.622	30	-0.57	526.53	0
526	Lead (ppm)	0629	56.45	0.1000	58.78	5.093	1.622	30	-0.46	526.43	0
526	Lead (ppm)	0006	56.45	1.568	58.78	5.093	1.622	30	-0.46	526.53	0
526	Lead (ppm)	0407	56.99	0.9071	58.78	5.093	1.622	30	-0.35	526.41	0
526	Lead (ppm)	0033	57.35	2.300	58.78	5.093	1.622	30	-0.28	526.53	0
526	Lead (ppm)	0098	57.40	1.000	58.78	5.093	1.622	30	-0.27	526.53	0
526	Lead (ppm)	0043	57.49	0.1484	58.78	5.093	1.622	30	-0.25	526.53	0
526	Lead (ppm)	0407	58.21	0.1511	58.78	5.093	1.622	30	-0.11	526.53	0
526	Lead (ppm)	0021	58.50	1.000	58.78	5.093	1.622	30	-0.05	526.43	0
526	Lead (ppm)	0208	59.00	2.200	58.78	5.093	1.622	30	0.04	526.52	0
526	Lead (ppm)	0148	59.33	6.250	58.78	5.093	1.622	30	0.11	526.43	0
526	Lead (ppm)	0047	60.10	2.210	58.78	5.093	1.622	30	0.26	526.52	0
526	Lead (ppm)	2141	60.13	3.610	58.78	5.093	1.622	30	0.26	526.43	0
526	Lead (ppm)	0964	60.60	0.4000	58.78	5.093	1.622	30	0.36	526.43	0
526	Lead (ppm)	0553	60.95	2.500	58.78	5.093	1.622	30	0.43	526.53	0
526	Lead (ppm)	2171	61.42	0.0517	58.78	5.093	1.622	30	0.52	526.53	0
526	Lead (ppm)	0563	61.95	1.440	58.78	5.093	1.622	30	0.62	526.31	0
526	Lead (ppm)	0425	62.27	1.000	58.78	5.093	1.622	30	0.69	526.34	0
526	Lead (ppm)	0910	62.98	2.580	58.78	5.093	1.622	30	0.83	526.52	0
526	Lead (ppm)	0042	64.70	4.200	58.78	5.093	1.622	30	1.16	526.42	0
526	Lead (ppm)	0278	67.42	1.280	58.78	5.093	1.622	30	1.70	526.43	0
526	Lead (ppm)	0723	67.59	2.101	58.78	5.093	1.622	30	1.73	526.43	0
526	Lead (ppm)	0572	68.40	0.2000	58.78	5.093	1.622	30	1.89	526.53	0
526	Lead (ppm)	2302	0.0000	0.0000	58.78	5.093	1.622	30		526.99	4
529	Mercury (ppb)	2171	0.1028	0.0024	91.01	20.02	6.921	17	-4.54	529.99	0
529	Mercury (ppb)	0910	0.1200	0.0000	91.01	20.02	6.921	17	-4.54	529.99	0
529	Mercury (ppb)	0047	0.1705	0.0010	91.01	20.02	6.921	17	-4.54	529.99	0
529	Mercury (ppb)	0160	63.00	6.000	91.01	20.02	6.921	17	-1.40	529.00	0
529	Mercury (ppb)	0656	67.58	0.0000	91.01	20.02	6.921	17	-1.17	529.99	0
529	Mercury (ppb)	0629	92.50	7.000	91.01	20.02	6.921	17	0.07	529.99	0
529	Mercury (ppb)	0043	93.48	2.017	91.01	20.02	6.921	17	0.12	529.99	0
529	Mercury (ppb)	0021	96.50	7.000	91.01	20.02	6.921	17	0.27	529.99	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
529	Mercury (ppb)	0033	98.10	11.80	91.01	20.02	6.921	17	0.35	529.99	0
529	Mercury (ppb)	0407	100.9	4.934	91.01	20.02	6.921	17	0.50	529.99	0
529	Mercury (ppb)	0208	106.5	11.00	91.01	20.02	6.921	17	0.77	529.99	0
529	Mercury (ppb)	0227	109.5	17.00	91.01	20.02	6.921	17	0.92	529.99	0
529	Mercury (ppb)	0553	110.5	3.000	91.01	20.02	6.921	17	0.97	529.99	0
529	Mercury (ppb)	0042	113.5	5.000	91.01	20.02	6.921	17	1.12	529.00	0
529	Mercury (ppb)	0098	118.5	11.00	91.01	20.02	6.921	17	1.37	529.99	0
529	Mercury (ppb)	0010	123.0	4.000	91.01	20.02	6.921	17	1.60	529.99	0
529	Mercury (ppb)	0425	135.0	27.90	91.01	20.02	6.921	17	2.19	529.00	0
529	Mercury (ppb)	0186	880.0	40.00	91.01	20.02	6.921	17	39.40	529.99	2
529	Mercury (ppb)	2302	0.0000	0.0000	91.01	20.02	6.921	17		529.99	4
539	Nickel (ppm)	0047	43.85	1.190	59.24	5.127	1.660	20	-3.00	539.52	0
539	Nickel (ppm)	0511	52.00	0.0000	59.24	5.127	1.660	20	-1.41	539.43	0
539	Nickel (ppm)	0407	52.38	2.705	59.24	5.127	1.660	20	-1.34	539.41	0
539	Nickel (ppm)	0870	52.92	1.443	59.24	5.127	1.660	20	-1.23	539.43	0
539	Nickel (ppm)	2292	55.50	1.000	59.24	5.127	1.660	20	-0.73	539.99	0
539	Nickel (ppm)	0160	56.35	1.100	59.24	5.127	1.660	20	-0.56	539.42	0
539	Nickel (ppm)	0208	58.10	0.6000	59.24	5.127	1.660	20	-0.22	539.41	0
539	Nickel (ppm)	0098	58.85	2.900	59.24	5.127	1.660	20	-0.08	539.53	0
539	Nickel (ppm)	0629	59.20	0.2000	59.24	5.127	1.660	20	-0.01	539.43	0
539	Nickel (ppm)	0186	59.45	0.4700	59.24	5.127	1.660	20	0.04	539.52	0
539	Nickel (ppm)	0021	60.50	1.000	59.24	5.127	1.660	20	0.25	539.43	0
539	Nickel (ppm)	0042	61.00	3.200	59.24	5.127	1.660	20	0.34	539.42	0
539	Nickel (ppm)	0964	61.40	0.2000	59.24	5.127	1.660	20	0.42	539.43	0
539	Nickel (ppm)	0021	61.50	5.000	59.24	5.127	1.660	20	0.44	539.53	0
539	Nickel (ppm)	0407	61.64	0.4014	59.24	5.127	1.660	20	0.47	539.53	0
539	Nickel (ppm)	2141	62.29	1.130	59.24	5.127	1.660	20	0.59	539.43	0
539	Nickel (ppm)	0553	62.95	1.300	59.24	5.127	1.660	20	0.72	539.53	0
539	Nickel (ppm)	0910	64.80	4.650	59.24	5.127	1.660	20	1.08	539.52	0
539	Nickel (ppm)	0010	65.50	3.000	59.24	5.127	1.660	20	1.22	539.53	0
539	Nickel (ppm)	0278	68.69	1.710	59.24	5.127	1.660	20	1.84	539.43	0
539	Nickel (ppm)	0148	60.57	8.621	59.24	5.127	1.660	20	0.26	539.43	1

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = Rejected for duplicates too far apart, 2 = Rejected as outlier, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.