Mixed Analyte Performance Evaluation Program

Statistical Summary

Sample ID: MAPEP-01-S8

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Arsenic	37	30	24.99	2.79	27		18.73 - 34.79	(mg/kg)
Barium	38	36	236.11	23.56	243		170.10 - 315.90	(mg/kg)
Beryllium	36	36	66.54	6.78	70.3		49.20 - 91.38	(mg/kg)
Cadmium	18	17				False Positive Test		(mg/kg)
Chromium	39	35	65.67	7.75	66		46.43 - 86.23	(mg/kg)
Lead	39	32	23.68	2.85	24		17.03 - 31.63	(mg/kg)
Nickel	39	38	92.42	7.88	95		66.56 - 123.62	(mg/kg)
Selenium	16	14				False Positive Test		(mg/kg)
Silver	35	31	72.99	5.74	74.3		52.00 - 96.56	(mg/kg)
Thallium	34	29	21.30	2.08	21.3		14.88 - 27.64	(mg/kg)
Uranium-Total	6	6	15.10	1.04	15.4		10.79 - 20.03	(mg/kg)
Uranium-235	2	2	0.04	0.00	0.049		0.03 - 0.06	(mg/kg)
Uranium-238	2	2	15.02	0.54	15.4		10.75 - 19.97	(mg/kg)
Vanadium	38	28	36.50	5.04	35		24.50 - 45.50	(mg/kg)
Zinc	37	37	176.77	18.58	179		124.96 - 232.06	(mg/kg)
Americium-241	28	19				False Positive Test		(Bq/kg)
Cesium-134	50	49	83.98	7.99	91.1		63.77 - 118.43	(Bq/kg)
Cesium-137	51	51	1208.38	106.23	1240		868.00 - 1612.00	(Bq/kg)
Cobalt-57	50	46	101.83	10.77	103		72.10 - 133.90	(Bq/kg)
Cobalt-60	51	50	1304.77	102.94	1270		889.00 - 1651.00	(Bq/kg)
Iron-55	8	2	1026.00	48.08	1320		924.00 - 1716.00	(Bq/kg)
Manganese-54	49	47	215.21	18.33	203		142.10 - 263.90	(Bq/kg)
Nickel-63	12	8	523.42	61.79	550		385.00 - 715.00	(Bq/kg)
Plutonium-238	37	35	107.79	8.79	115		80.50 - 149.50	(Bq/kg)
Plutonium-239/240	37	37	78.08	6.34	83.4		58.38 - 108.42	(Bq/kg)
Potassium-40	51	50	684.22	65.47	652		456.40 - 847.60	(Bq/kg)
Strontium-90	28	25	190.52	23.50	209		146.30 - 271.70	(Bq/kg)
Uranium-234/233	37	31	53.89	4.99	60		42.00 - 78.00	(Bq/kg)
Uranium-238	38	36	177.15	12.78	191		133.70 - 248.30	(Bq/kg)
Zinc-65	49	46	416.26	37.40	382		267.40 - 496.60	(Bq/kg)
1,3-Dichlorobenzene	20	20	520.14	174.87	520.1		QL - 1044.57	(ug/kg)
Nitrobenzene	24	23	683.70	203.27	683.7		74.08 - 1293.31	(ug/kg)
Naphthalene	23	21	572.18	137.69	572.2		159.24 - 985.13	(ug/kg)
Hexachlorobutadiene	24	23	585.33	183.64	585.3		34.58 - 1136.08	(ug/kg)

Note:

Outliers are excluded from the statistical summary.
Outliers are defied as laboratory data with a bias greater than 30 percent.
(1) T = Total Number of Laboratories Reporting Analyte.
(2) A = Number of Laboratories with 'Acceptable' Performance.
1. For organic components with absoute value of Z-score < 3
2. Acceptance range minimum labeled as "DL" means from the Detection Limit to the upper range.

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
2,6-Dichlorophenol	12	12	306.17	109.95	306.2		QL - 635.91	(ug/kg)
2-Chloronaphthalene	24	23	664.37	192.53	664.4		86.98 - 1241.75	(ug/kg)
2,6-Dinitrotoluene	24	23	839.49	238.73	839.5		123.53 - 1555.44	(ug/kg)
2,4-Dinitrotoluene	23	22	785.46	227.91	785.4		101.96 - 1468.95	(ug/kg)
Fluorene	24	23	522.00	169.32	522		14.22 - 1029.78	(ug/kg)
Diethylphthalate	24	23	858.26	250.14	858.2		108.09 - 1608.43	(ug/kg)
Anthracene	20	20	345.78	170.00	345.8		QL - 855.60	(ug/kg)
1,4-Dinitrobenzene	4	4						(ug/kg)
1,3-Dinitrobenzene	8	8	508.03	396.09	508		QL - 1695.91	(ug/kg)
1,2-Dinitrobenzene	3	3						(ug/kg)
Di-n-butylphthalate	6					Not Evaluated		(ug/kg)
Pyrene	23	22	684.98	184.06	685		132.99 - 1236.97	(ug/kg)
Benzo(a)anthracene	24	23	553.51	169.93	553.5		43.89 - 1063.12	(ug/kg)
Chrysene	24	23	598.88	192.00	598.9		23.06 - 1174.69	(ug/kg)
Bis(2-ethylhexyl)phthalat	22	22	5165.97	3006.90	5166		QL - 14183.67	(ug/kg)
Di-n-octylphthalate	23	23	1139.26	489.89	1139		QL - 2608.46	(ug/kg)

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