

Factors		Value (lb)		Distribution	Standard Uncertainty (u), lb	Index	
Aldinger UM		0.00287500		normal	0.00287500	2.70%	
Control standard deviation		0.00945162		Normal	0.00945162	29.20%	
Linearity		0.05		rectangular	0.01443376	68.10%	
Subtotal of u values					0.02676038	100.00%	
Subtotal of Squared u values					0.00030593		
Combined Uncertainty					Ucom = 0.01749091		
Expanded Uncertainty (single event, k=2)					U _{exp} = 0.07000000		
Multiple event							
					U _{tot} = 0.03498183		
			n =	1			
			r ₂ =	1			
Expanded Uncertainty (multiple events, k=2)					U _{exp} = 0.07 lbs		
					0.032 Kg		
BALANCE #3							

Title:
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Unit:
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Factors	Value (g)	Distribution	Standard Uncertainty (u), g	Index
Aldinger UM	0.00085000	normal	0.00085000	66.42%
Control standard deviation	0.00017873	Normal	0.00017873	2.94%
Linearity	0.002	rectangular	0.00057735	30.64%
Subtotal of u values			0.00160608	100.00%
Subtotal of Squared u values			0.00000109	
Combined Uncertainty			U _{com} = 0.00104297	
Expanded Uncertainty (single event, k=2)			U _{exp} = 0.00500000	
Multiple event				
			U _{tot} = 0.00208593	
		n = 1		
		r ₂ = 1		
Expanded Uncertainty (multiple events, k=2)			U _{exp} = 0.005	
BALANCE #4				

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Factors	Value (g)	Distribution	Standard Uncertainty (u), g	Index
Aldinger UM	0.00093773	normal	0.00093773	56.19%
Control standard deviation	0.0005936	Normal	0.00059360	22.51%
Linearity	0.002	rectangular	0.00057735	21.30%
Subtotal of u values			0.00210868	100.00%
Subtotal of Squared u values			0.00000157	
Combined Uncertainty			U _{com} = 0.00125101	
Expanded Uncertainty (single event, k=2)			U _{exp} = 0.00600000	
Multiple event				
			U _{tot} = 0.00250202	
		n = 1		
		r ₂ = 1		
Expanded Uncertainty (multiple events, k=2)			U _{exp} = 0.006	
BALANCE #5				

Factors		Value (g)		Distribution	Standard Uncertainty (u), g	Index	
Aldinger UM		0.00085000		normal	0.00085000	38.86%	
Control standard deviation		0.00089638		Normal	0.00089638	43.21%	
Linearity		0.002		rectangular	0.00057735	17.93%	
Subtotal of u values					0.00232373	100.00%	
Subtotal of Squared u values					1.85932E-06		
Combined Uncertainty					U _{com} = 0.00136357		
Expanded Uncertainty (single event, k=2)					U _{exp} = 0.00600000		
Multiple event							
					U _{tot} = 0.00272714		
			n =	1			
			r ₂ =	1			
Expanded Uncertainty (multiple events, k=2)					U _{exp} = 0.006		
BALANCE #6							

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Factors		Value (g)		Distribution	Standard Uncertainty (u), g	Index	
Aldinger UM		0.00031864		normal	0.00031864	92.10%	
Control standard deviation		0.00007333		Normal	0.00007333	4.88%	
Linearity		0.0002		rectangular	0.00005774	3.02%	
Subtotal of u values					0.00044970	100.00%	
Subtotal of Squared u values					0.00000011		
Combined Uncertainty					U _{com} = 0.00033202		
Expanded Uncertainty (single event, k=2)					U _{exp} = 0.00140000		
Multiple event							
					U _{tot} = 0.00066405		
			n =	1			
			r ₂ =	1			
Expanded Uncertainty (multiple events, k=2)					U _{exp} = 0.0014		
BALANCE #8							

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Factors		Value (lb)		Distribution	Standard Uncertainty (u), lb			Index
Aldinger UM		0.00287500		normal	0.00287500			1.09%
Control standard deviation		0.02332814		Normal	0.02332814			71.53%
Linearity		0.05		rectangular	0.01443376			27.38%
Subtotal of u values					0.04063690			100.00%
Subtotal of Squared u values					0.00076080			
Combined Uncertainty					Ucom =	0.02758262		
Expanded Uncertainty (single event, k=2)					Uexp=	0.12		
Multiple event								
					Utot =	0.05516525		
			n =	1				
			r ₂ =	1				
Expanded Uncertainty (multiple events, k=2)					Uexp =	0.12	LBS	
						0.06	KGS	
BALANCE #10								

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Factors	Value (g)	Distribution	Standard Uncertainty (u), g	Index
Aldinger UM	0.00085000	normal	0.00085000	48.98%
Control standard deviation	0.00064753	Normal	0.00064753	28.42%
Linearity	0.002	rectangular	0.00057735	22.60%
Subtotal of u values			0.00207488	100.00%
Subtotal of Squared u values			0.00000148	
Combined Uncertainty			u _{com} = 0.00121455	
Expanded Uncertainty (single event, k=2)			U _{exp} = 0.00500000	
Multiple event				
			U _{tot} = 0.00242910	
	n = 1			
	r ₂ = 1			
Expanded Uncertainty (multiple events, k=2)			U _{exp} = 0.005	
BALANCE #11				

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Factors	Value (g)	Distribution	Standard Uncertainty (u), g	Index
Aldinger UM	0.00093773	normal	0.00093773	62.93%
Control standard deviation	0.00042969	Normal	0.00042969	13.21%
Linearity	0.002	rectangular	0.00057735	23.86%
Subtotal of u values			0.00194477	100.00%
Subtotal of Squared u values			0.00000140	
Combined Uncertainty			U _{com} = 0.00118207	
Expanded Uncertainty (single event, k=2)			U _{exp} = 0.00500000	
Multiple event				
			U _{tot} = 0.00236415	
		n = 1		
		r ₂ = 1		
Expanded Uncertainty (multiple events, k=2)			U _{exp} = 0.005	
BALANCE #12				

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Factors	Value (g)	Distribution	Standard Uncertainty (u), g	Index
Aldinger UM	0.01575455	normal	0.01575455	18.48%
Control standard deviation	0.00620456	Normal	0.00620456	2.87%
Linearity	0.03	Normal	0.03250000	78.65%
Subtotal of u values			0.05445911	100.00%
Subtotal of Squared u values			0.00134295	
Combined Uncertainty			Ucom = 0.03664631	
Expanded Uncertainty (single event, k=2)			Uexp= 0.15000000	
Multiple event				
			Utot = 0.07329263	
		n = 1		
		r ₂ = 1		
Expanded Uncertainty (multiple events, k=2)			Uexp = 0.15	
BALANCE #14				

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Factors		Value (g)		Distribution	Standard Uncertainty (u), g	Index	
Aldinger UM		0.00280909		normal	0.00280909	91.71%	
Control standard deviation		0.00061613		Normal	0.00061613	4.41%	
Linearity		0.002		rectangular	0.00057735	3.87%	
Subtotal of u values					0.00400257	100.00%	
Subtotal of Squared u values					0.00000860		
Combined Uncertainty					U _{com} = 0.00293325		
Expanded Uncertainty (single event, k=2)					U _{exp} = 0.01200000		
Multiple event							
					U _{tot} = 0.00586650		
			n =	1			
			r ₂ =	1			
Expanded Uncertainty (multiple events, k=2)					U _{exp} = 0.012		
BALANCE #15							

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Factors		Value (mg)		Distribution	Standard Uncertainty (u), mg	Index	
Aldinger UM		0.65916667		normal	0.65916667	98.42%	
Control standard deviation		0.06051603		Normal	0.06051603	0.83%	
Linearity		0.2		rectangular	0.05773503	0.76%	
Subtotal of u values					0.77741772	100.00%	
Subtotal of Squared u values					0.44149622		
Combined Uncertainty					U _{com} =	0.66445182	
Expanded Uncertainty (single event, k=2)					U _{exp} =	2.70000000	
Multiple event							
					U _{tot} =	1.32890363	
			n =	1			
			r ₂ =	1			
Expanded Uncertainty (multiple events, k=2)					U _{exp} =	2.7 (mg)	
BALANCE #17							

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Factors		Value (g)		Distribution	Standard Uncertainty (u), g	Index	
Aldinger UM		0.00085000		normal	0.00085000	55.79%	
Control standard deviation		0.00048917		Normal	0.00048917	18.48%	
Linearity		0.002		rectangular	0.00057735	25.74%	
Subtotal of u values					0.00191652	100.00%	
Subtotal of Squared u values					0.00000130		
Combined Uncertainty					U _{com} = 0.00113803		
Expanded Uncertainty (single event, k=2)					U _{exp} = 0.00500000		
Multiple event							
					U _{tot} = 0.00227607		
			n =	1			
			r ₂ =	1			
Expanded Uncertainty (multiple events, k=2)					U _{exp} = 0.005		
BALANCE #18							