



GeoPT

Proficiency Testing Programme for Geochemical Laboratories

Organised by the International Association of Geoanalysts (IAG)

Certificate of Performance



Subscriber: **GeoPT358**
Round: **GeoPT43**

Laboratory Code: **B87**

Test Material: **ADS-1**
Date: **June 2018**

Analyte	Z-Score	Data Quality	Consensus		Result	
			Value	Submitted	g/100g	g/100g
SiO ₂	0.23	2	51.01	51.263		
TiO ₂	0.13	2	2.430	2.441		
Al ₂ O ₃	0.11	2	13.74	13.781		
Fe ₂ O ₃ T	0.11	2	13.22	13.258		
MnO	0.15	2	0.1706	0.172		
MgO	0.42	2	5.590	5.662		
CaO	0.24	2	8.970	9.032		
Na ₂ O	-0.19	2	2.470	2.454		
K ₂ O	-0.01	2	0.9994	0.999		
P ₂ O ₅	-0.21	2	0.3000	0.297		
			mg/kg	mg/kg		
Ba	-7.64	2	341.6	168		
Be	-		1.070			
Ce	-		59.51			
Co	2.09	2	44.60	53		
Cr	2.44	2	91.83	110		
Cs	-		0.4624			
Cu	0.13	2	64.31	65		
Dy	-		6.100			
Er	-		3.059			
Eu	-		2.203			
Ga	-		21.88			
Gd	-		7.260			
Hf	-		5.100			
Ho	-		1.164			
La	-		26.93			

Analyte	Z-Score	Data Quality	Consensus		Result	
			Value	Submitted	mg/kg	mg/kg
Li	-		12.94			
Lu	-		0.3651			
Mo	-		3.200			
Nb	0.32	2	17.42	18		
Nd	-		32.76			
Ni	0.05	2	52.76	53		
Pb	2.66	2	14.00	18		
Pr	-		7.750			
Rb	-0.11	2	25.28	25		
Sb	-		0.08500			
Sc	-		27.56			
Sm	-		8.634			
Sn	-		18.15			
Sr	0	2	402.0	402		
Ta	-		1.120			
Tb	-		1.084			
Th	-0.23	2	3.095	3		
Tl	-		0.1641			
Tm	-		0.4138			
U	-		0.6460			
V	-1.3	2	333.0	304		
W	-		0.4380			
Y	-1.39	2	30.00	26		
Yb	-		2.491			
Zn	1.58	2	113.0	127		
Zr	-2.09	2	199.0	169		

The principles upon which GeoPT z-scores are based are detailed in the full report for this round
- indicates result within acceptable range of z-score limits $ z < 2$
- indicates result outside z-score limits $ z > 2$ but within the z-score limits $ z < \text{or} = 3$
- indicates result outside z-score limits $ z > 3$ and likely to require investigation
Consensus values are assigned values unless otherwise indicated
Shaded Consensus values have provisional status

Peter Webb Peter Webb - Administrator of GeoPT on behalf of the International Association of Geoanalysts



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Subscriber: **GeoPT358**
Round: **GeoPT42**

Laboratory Code: **A68**

Test Material: **QS-1**
Date: **December 2017**

Analyte	Z-Score	Data Quality	Consensus		Result	
			Value	g/100g	Submitted	g/100g
SiO ₂	-0.06	2	50.92	50.842		
TiO ₂	1.07	2	0.7583	0.792		
Al ₂ O ₃	-0.2	2	14.28	14.202		
Fe ₂ O ₃ T	1	2	6.486	6.682		
MnO	0.71	2	0.1000	0.104		
MgO	0.13	2	3.630	3.645		
CaO	0.65	2	8.068	8.221		
K ₂ O	0.71	2	4.414	4.514		
P ₂ O ₅	0.22	2	0.1512	0.153		
LOI	0.09	2	10.77	10.8		
			mg/kg	mg/kg		
As	-		6.850			
Ba	-0.09	2	362.1	360		
Be	-		2.308			
Bi	-		0.2300			
C(tot)	-		20000			
Ce	-		81.10			
Co	1.78	2	16.00	19		
Cr	1.42	2	70.53	79		
Cs	-		6.200			
Cu	0.47	2	11.40	12		
Dy	-		5.410			
Er	-		3.053			
Eu	-		1.422			
F	-		1060			
Ga	-		19.70			
Gd	-		6.146			
Ge	-		1.891			
Hf	-		4.240			

Analyte	Z-Score	Data Quality	Consensus		Result	
			Value	mg/kg	Submitted	mg/kg
Ho	-		1.077			
In	-		0.07050			
La	-		39.40			
Li	-		61.09			
Lu	-		0.4300			
Mo	-		1.095			
Nb	1.63	2	14.47	17		
Nd	-		36.59			
Ni	1.58	2	38.40	44		
Pb	-0.3	2	9.320	9		
Pr	-		9.605			
Rb	0.14	2	135.5	137		
Sb	-		0.7800			
Sc	-		14.24			
Sm	-		7.080			
Sn	-		2.530			
Sr	0.11	2	113.0	114		
Ta	-		0.9843			
Tb	-		0.9100			
Th	1.61	2	11.03	13		
Tl	-		0.6550			
Tm	-		0.4500			
U	-		2.620			
V	-0.68	2	112.0	106		
W	-		1.277			
Y	2.42	2	29.20	36		
Yb	-		2.860			
Zn	3.83	2	75.00	99		
Zr	-2.38	2	159.3	131		

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