



COAL CONCEPTS PROFICIENCY TESTING

GENERAL ANALYSIS SAMPLE

REPORT – ONE HUNDRED AND SEVENTY-FIVE

Revision 00

Final report

DATE ISSUED 31st MAY 2026

PARTICIPANT

LABORATORY CODE: a

R BABOOLAL (SCHEME MANAGER)

SCHEME COORDINATOR: S MAMABOLO

Disclaimer: Opinions and interpretations expressed herein are outside the scope of SANAS accreditation

**Moisture in the analysis sample is not included in the SANAS schedule of accreditation as robust statistics cannot be applied.*

Chlorine, Fluorine, Quick ash, ASTM ash and ASTM Volatiles is not included in the scope of accreditation.

THINKING QUALITY, QUALITY THINKING

REGISTRATION NUMBER: 2006/149731/23 (RMB INDUSTRIAL STATIONERS cc t/a)

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EXECUTIVE SUMMARY

1. Ninety-Five samples were sent to participants with 93 results submitted timeously.
2. The total number of outliers detected were as follows (dry base):
 - ISO Ash x 2
 - Quick Ash x 2
 - Volatile matter x 4
 - Calorific value x 2
 - Total Sulphur x 2
 - Carbon x 2
 - Hydrogen x 2
3. Chlorine, Fluorine, ASTM Ash, ASTM Volatile Matter participants were insufficient to apply robust statistical calculations.
4. Trending for your laboratory is as follows:

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Dear Participant

RE: PROFICIENCY TESTING RESULTS FOR THE MONTH OF MAY 2026

Thank you for your participation in the Coal Concepts proficiency testing scheme.

Your laboratory code is as per the cover page.

All results are totally confidential. Any results in **Bold, Italics and Underlined** are outliers. Where applicable, the most extreme outliers have been eliminated from calculations using the Grubbs estimate for outliers. Robust statistics has been applied where possible. Analysis results have been reported on air dry and dry base. The dry base results have been used to calculate the z-scores. The z-scores are calculated by subtracting the average from the participant result then dividing by the standard deviation. **Note: All decimals are carried in the z-score calculation and only rounded off at the end of the calculation.**

Please take note of the following:

1. Z-scores between -1 and +1 is deemed acceptable
2. Z-scores between -2 and -3 should serve as a warning that the analysis result could get worse
3. Z-scores between +2 and +3 should also serve as a warning that analysis results could get worse.
4. Z- scores lower than -3 and exceeding +3 should warrant an investigation
5. Compare your result to the robust average which will be the assigned value. The measurement of uncertainty (UoM) of the results is also stated.
6. Z-Score calculation : $z\ score = \frac{(Lab\ result - Average\ result)}{Standard\ Deviation}$
7. Measurement protocols (SANAS R80, ISO/IEC 17043:2023, clause 7.1.2); Analysis accredited parameters can be carried out using techniques as follows:

ISO Ash – ISO 1171

ISO Volatile matter – ISO 562

Calorific Value determinations – ISO 1928/ASTM D5865

Total Sulphur Determination – ISO 19579 / ASTM D4239

Phosphorus in Coal – BS 1016/ISO 622/ XRF

CHN – ISO 29541 /ASTM D5373

AFT – ISO 540

8. Five consecutive z-scores above the zero line is considered a positive bias and five consecutive z-scores below the zero line is considered a negative bias. Note that this is guideline/suggestion from Coal Concepts and your quality system requirements may differ.

The Coal Concepts scheme adheres to the requirements of ISO/IEC 17043 – Conformity assessment – General requirements for proficiency testing.

Statistical analysis has been carried out using ISO/IEC 13528-Statistical methods for use in proficiency testing by interlaboratory comparisons, including procedures used to statistically analyse data, establishment of any assigned value, standard deviation and its uncertainty.

Please find results attached together with Z-score trends.

Best Regards

R Baboolal

LIST OF PARTICIPANTS

Africoal	Luthando Analytical Services
Afisam Dudfield	Matil Lab
Ağrı İbrahim Çeçen Üniversitesi	Mfulawamanzi
AH Knight Bultfontein	Mincoal Lab
AH Knight	Ministry of Energy and Mineral Resources - Kingdom of Jordan
Anglo Greenside (Thungela)	Mitra SK Morocco
Anglo Landau	Mitra SK Richards Bay
Aqua Specto	ML Coal
ArcelorMittal VDP	Moruple
Azuresky Pty LTd	Msobo Coal
Best enough - Cordite	MTA Genel Müdürlüğü
Best enough 2 Seam	Nelson Mandela University
Best enough Laboratory -Springs	Noko Analytical laboratories (Witbank)
Best enough NCC	Noko Ntshovelo
Best enough Overlook Alpha	PSB Analytical Services Netherlands
Bestech Zomhlaba Resource Mine -Delmas	Profi Lab Doo
Botswana Power Corp - B Power Station	Rafinerija Naft e Beograd AD
Botswana Power Corporation - A Power Station	RC Inspection
Bureau Veritas Inspectorate Laboratories - Alton	Richards Bay Minerals
Bureau Veritas Inspectorate Laboratories - Middelburg	Ronewa Lab
BV Matola Laboratory	Ronewa Lab Gugulethu
BV Moatize	Ronewalab IPP
BV Nacala	Ronewa Wescoal
Castle Peak Power Station	Ruvuma Coal (Pty) Ltd
CCIC City Deep	SA Labs Ihtuba – Khanye
CCIC Richards Bay	SA Labs Ihtuba – Middelburg
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Coal Connect Lab Services	SB Mining Solutions - Belfast
Coal Concepts Richards Bay Lab	Seriti Kriel Colliery
Cotecna Lurco	Seriti New Denmark
Cotecna Middelburg	Seriti New Vaal
Cotecna Mimosa	Sibonisiwe Clewer
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CIGroup	Siza Coal Services - Botswana
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Ensayos técnicos Labmin SRL-Peru	Siza Leeuwpan
Eskom Arnot	Siza Mgayo
Eskom Camden	Siza Middelburg
Eskom Duvha	Siza Minerals Lab - Gaborone
Eskom Erid	Siza NBC
Eskom Erid TGA	Siza Sasol
Eskom Grootvlei	Siza Umlalazi
Eskom Kendal	Siza WestCoal
Eskom Kriel	South 32 Khutala
Eskom Lethabo	Turkey ELI
Eskom Majuba	UAS Areshomeng
Eskom Matimba	UAS-Bankfontein
Eskom Matla	UAS Botswana
Eskom Medupi	UAS Hendrina
Eskom Tutuka	UAS-Khashani
Exxaro Matla	UAS Main Lab
Fauji Fertilizer Bin Qasim Limited	UAS Sasol SCS
General Directorate of Coal Enterprises of Turkey	UAS Twistdraai
Geological Survey of Tanzania	UIS
Geoscience	Umlabu processing PTY Ltd
Glencore BoshoeK	Universal Geominerals Sdn Bhd - Malaysia
Glencore Lion	Vinca Institute - Serbia
Glencore Wonderkop	Vitrovian
Gölbası Kimya Laboratuvarı İşletme Müdürlüğü	Yatagan Termik
HighVeld Lab	Yildiz Labs - Turkey
Hwange Colliery	Ykenerji
Idwala Lime	
Imbally (Pty) Ltd	
İZANLAB LABORATUVARLARI A.Ş.	
İZMİR KÖMÜR LABORATUVARI	
Jindal Kiepersol	
Jindal Mozambique	
Jugoinspekt Belgrade AD Serbia	
KELEBEK KİMYA ÇEVRE LABORATUVARLARI PETROL GIDA	
Laboratory for solid fuels-Mining Institute Belgrade	
Labrite Lab	
Labrite Zanrunix Laboratory	
Leon Testing Pakistan	
Mafube Coal	

1. TYPE OF SAMPLE USED

The coal used in this proficiency testing round was bituminous coal.

2. PREPARATION OF SAMPLE

Approximately 1000kg’s of coal with an approximate top size of 50mm was sourced. This was crushed to -4mm using a jaw crusher. The -4mm material was reduced to -212um using a cross-beat pulveriser. The 212 material was sieved using a 212um screen. Any +212um material was pulverised and sieved until all material passed through the 212-um sieve.
All the -212um material was then mixed in a mixing drum for 4 hours.

3. HOMOGENEITY CHECK

There were approximately 114 participants in this round, 10 portions of sample were randomly extracted. These were packaged in their final form i.e. in 200ml sample bottles. The bottles were labelled 1 to 10. The results were as follows:

SAMPLE NO.	TEST PORTION 1	TEST PORTION 2	sample av (Xt)	range (Wt)	range sqd
1	17,58	17,71	17,65	0,13	0,0169
2	17,52	17,80	17,66	0,28	0,0784
3	17,62	17,67	17,65	0,05	0,0025
4	17,51	17,74	17,63	0,23	0,0529
5	17,62	17,63	17,63	0,01	0,0001
6	17,64	17,70	17,67	0,06	0,0036
7	17,61	17,80	17,71	0,19	0,0361
8	17,68	17,76	17,72	0,08	0,0064
9	17,66	17,89	17,78	0,23	0,0529
10	17,62	17,84	17,73	0,22	0,0484
GENERAL AVERAGE			17,68		
STANDARD DEVIATION			0,050		
WITHIN SAMPLE STANDARD DEVIATION			0,122		
BETWEEN SAMPLE STANDARD DEVIATION			0,070		

The between sample standard deviation must be $\leq 0.3 \times \sigma$

(σ = std deviation for the proficiency assessment)

$\sigma = 0.354$ was used, which is the repeatability for ISO ash (Ash % > 10%)
Hence = $0.354 \times 0.3 = 0.106$

Since 0.070 < 0.106 the samples are homogenous.

4. STABILITY CHECK

Samples were retained for sales as reference material. Ten of them were randomly chosen for stability testing. In order for the proficiency testing samples to be declared stable the general average from the homogeneity check and that of the stability check the difference in the general average should not differ by more than 0.3 X precision.

This test has been carried out about a month after the samples were received by the participating laboratories.

SAMPLE NO.	TEST PORTION 1	TEST PORTION 2	sample av (Xt)	range (Wt)	range sqd
1	17,57	17,75	17,66	0,18	0,0324
2	17,60	17,63	17,62	0,03	0,0009
3	17,65	17,61	17,63	0,04	0,0016
4	17,53	17,66	17,60	0,13	0,0169
5	17,58	17,56	17,57	0,02	0,0004
6	17,61	17,66	17,64	0,05	0,0025
7	17,69	17,67	17,68	0,02	0,0004
8	17,68	17,81	17,75	0,13	0,0169
9	17,63	17,65	17,64	0,02	0,0004
10	17,69	17,64	17,67	0,05	0,0025
GENERAL AVERAGE			17,64		
STANDARD DEVIATION			0,049		
WITHIN SAMPLE STANDARD DEVIATION			0,061		
BETWEEN SAMPLE STANDARD DEVIATION			0,022		

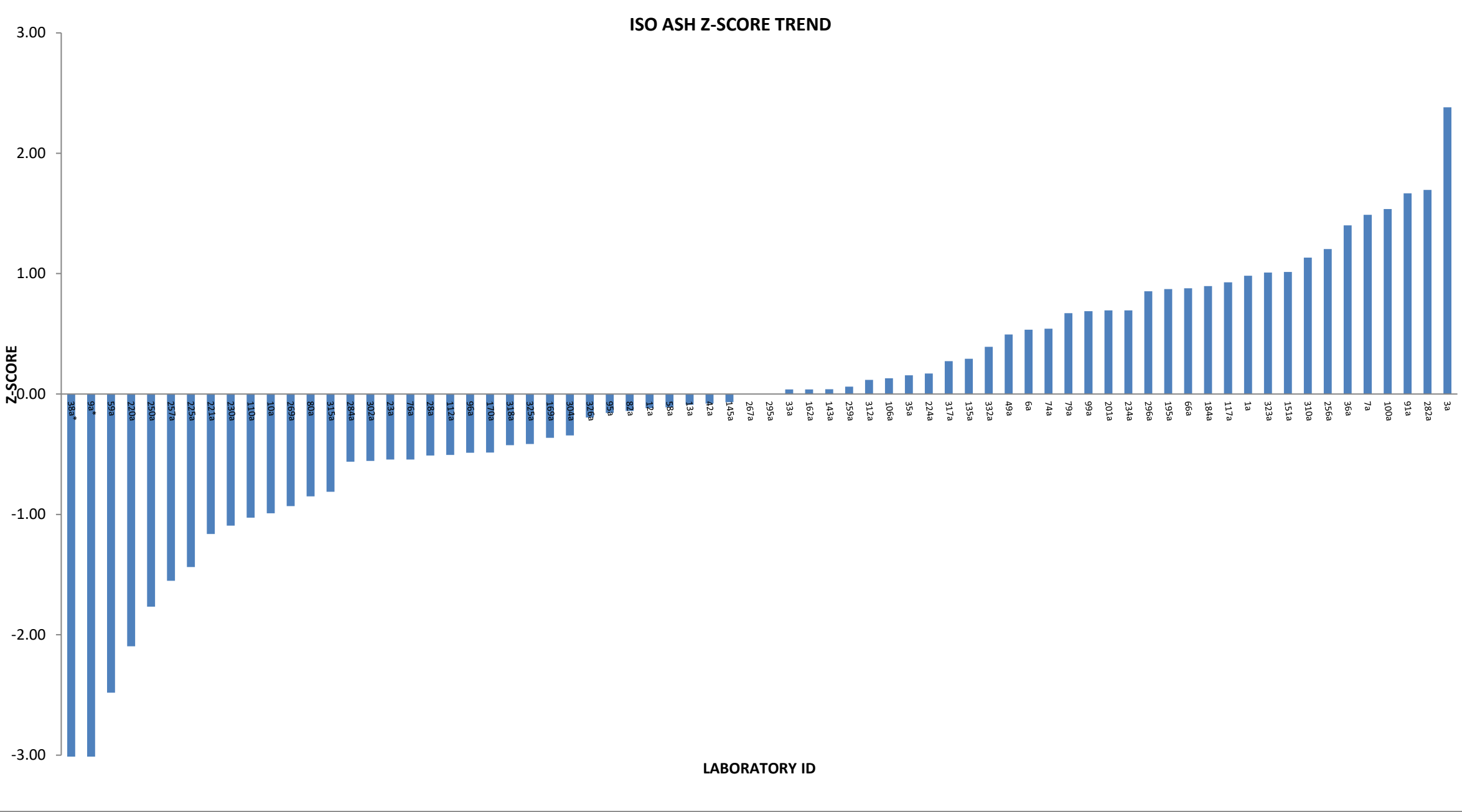
($\sigma = 0.354$ was used)

For this report 0.106 was used

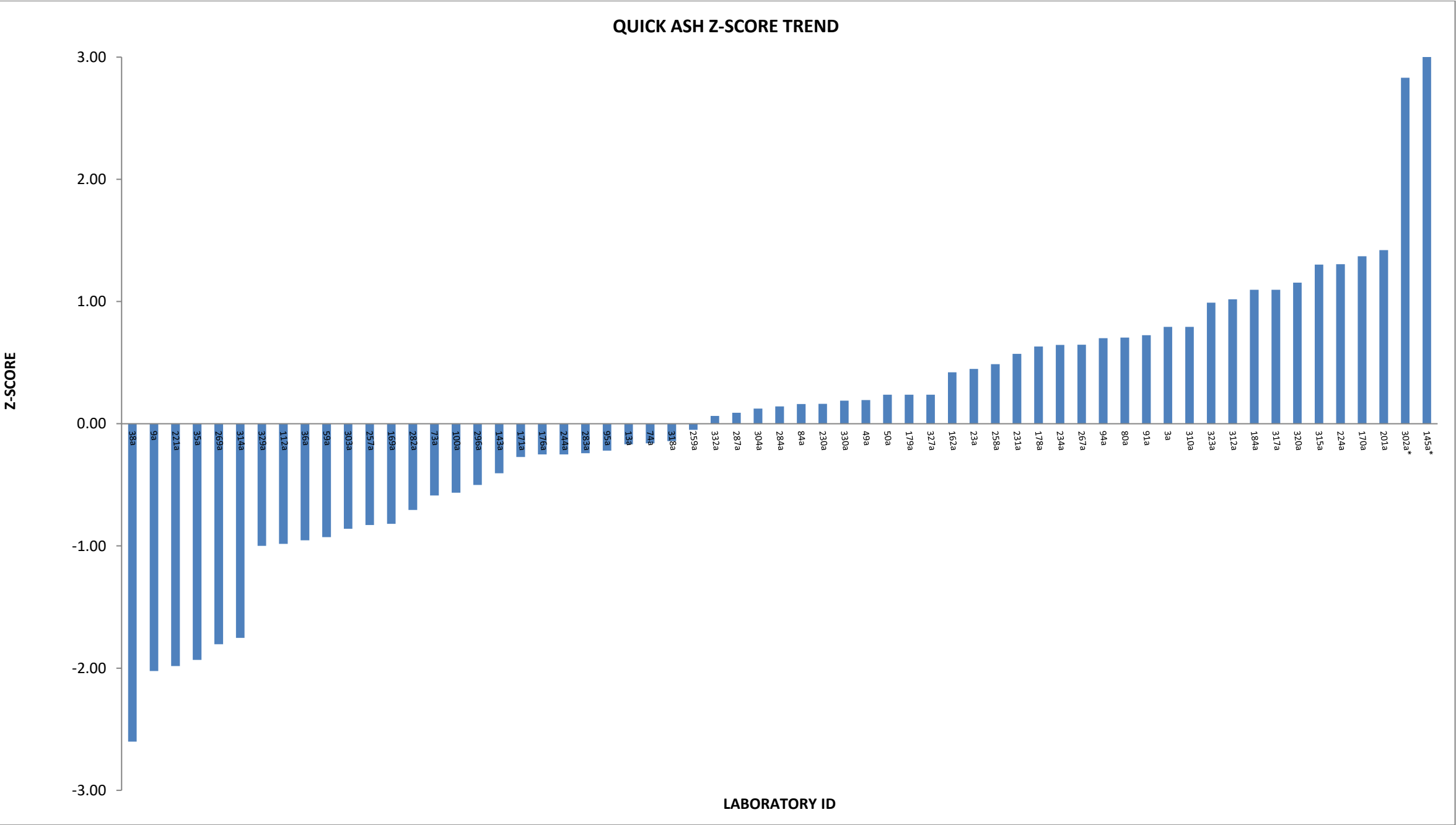
Absolute value of (17.64– 17.68) = 0.040

Since 0.040 < 0.106 the proficiency testing samples were stable

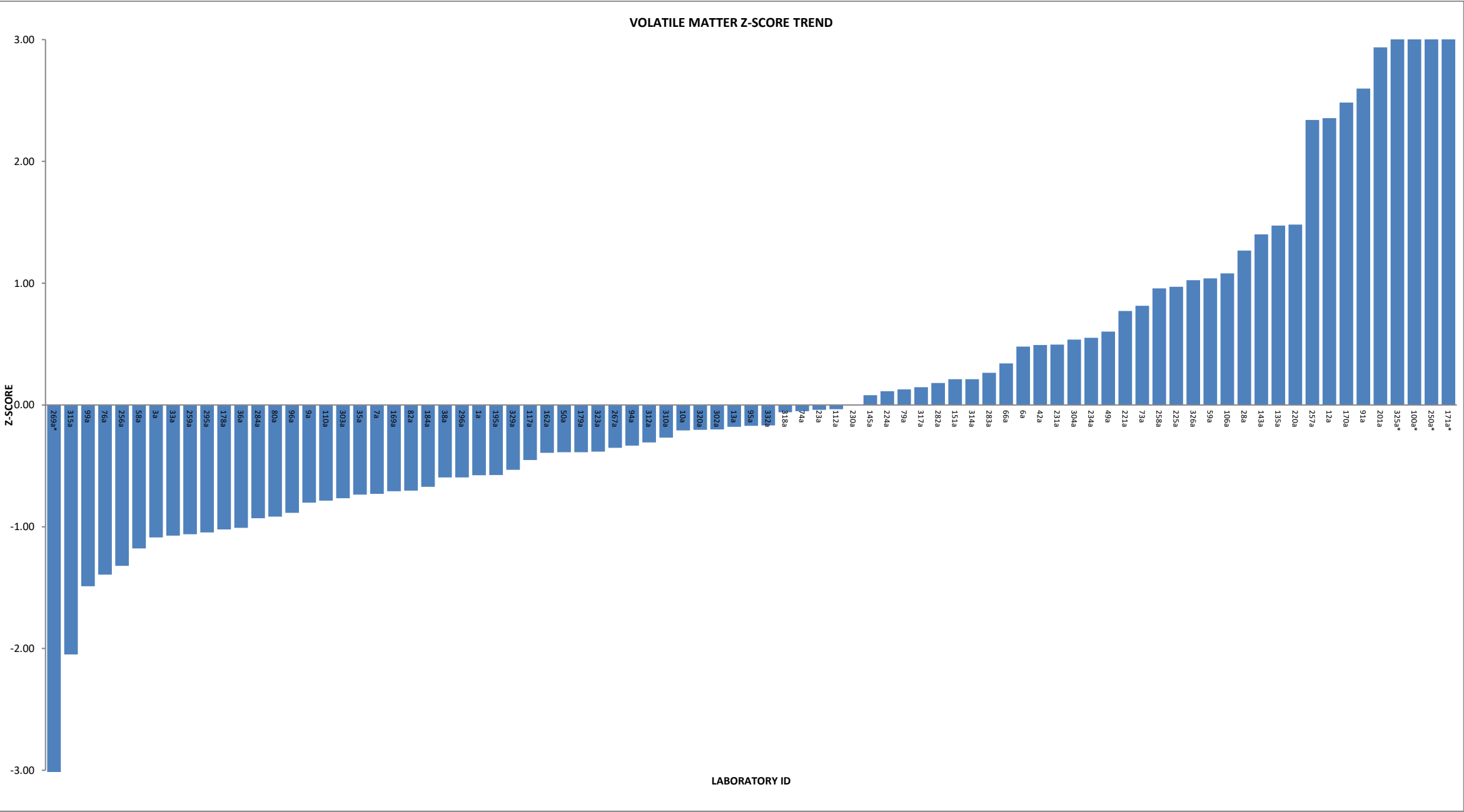
COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: ISO ASH (%)					
Number of results	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	1a	5,31	17,95	18,96	0,98
	3a	5,70	18,10	19,19	2,38
	6a	5,51	17,84	18,88	0,53
	7a	5,79	17,94	19,04	1,49
	9a*	5,30	17,30	18,27	-3,07
	10a	4,25	17,83	18,62	-0,99
	12a	5,70	17,70	18,77	-0,12
	13a	5,67	17,71	18,77	-0,09
	23a	4,80	17,80	18,70	-0,54
	28a	5,79	17,62	18,70	-0,51
	33a	5,30	17,80	18,80	0,04
	35a	5,40	17,80	18,82	0,16
	36a	5,40	18,00	19,03	1,40
	38a*	5,20	17,20	18,14	-3,81
	42a	5,20	17,80	18,78	-0,08
	49a	5,53	17,83	18,87	0,49
	58a	4,80	17,87	18,77	-0,11
	59a	5,00	17,45	18,37	-2,48
	66a	5,01	17,99	18,94	0,88
	74a	5,20	17,90	18,88	0,54
	76a	4,80	17,80	18,70	-0,54
	79a	5,68	17,83	18,90	0,67
	80a	5,50	17,62	18,65	-0,85
	82a	5,20	17,79	18,77	-0,14
	91a	5,10	18,10	19,07	1,67
	95a	4,60	17,90	18,76	-0,16
	96a	4,58	17,85	18,71	-0,49
	99a	5,80	17,81	18,91	0,69
	100a	6,04	17,90	19,05	1,54
	106a	4,90	17,89	18,81	0,13
	110a	5,24	17,64	18,62	-1,03
	112a	5,10	17,75	18,70	-0,51
	117a	5,00	18,00	18,95	0,93
	135a	4,35	18,02	18,84	0,29
	143a	4,77	17,90	18,80	0,04
	145a	4,57	17,92	18,78	-0,07
	151a	5,60	17,90	18,96	1,01
	162a	5,30	17,80	18,80	0,04
	169a	4,10	17,96	18,73	-0,36
	184a	5,50	17,90	18,94	0,90
	195a	5,48	17,90	18,94	0,87
	201a	4,80	18,00	18,91	0,69
	220a	4,85	17,54	18,43	-2,09
	221a	4,80	17,70	18,59	-1,16
	224a	5,20	17,84	18,82	0,17
	225a	5,10	17,60	18,55	-1,44
	230a	4,86	17,70	18,60	-1,09
	234a	5,70	17,83	18,91	0,70
	250a	4,38	17,68	18,49	-1,77
	256a	5,55	17,94	18,99	1,20
	257a	5,00	17,60	18,53	-1,55
	259a	5,32	17,80	18,80	0,06
	267a	5,28	17,80	18,79	0,00
	269a	5,00	17,70	18,63	-0,93
	282a	4,60	18,20	19,08	1,70
	284a	4,89	17,78	18,69	-0,56
	295a	5,30	17,79	18,79	0,00
	296a	5,20	17,95	18,93	0,85
	302a	3,72	18,00	18,70	-0,56
	304a	5,72	17,66	18,73	-0,34
	310a	5,70	17,90	18,98	1,13
	312a	4,89	17,89	18,81	0,12
	315a	4,62	17,79	18,65	-0,81
	317a	5,50	17,80	18,84	0,27
	318a	3,94	17,98	18,72	-0,43
	323a	5,86	17,85	18,96	1,01
	325a	4,75	17,83	18,72	-0,42
	326a	5,10	17,80	18,76	-0,20
	332a	5,23	17,87	18,86	0,39
Number of results	-	70	70	70	-
OUTLIERS	-	-	2	1	-
AVERAGE	-	5,13	17,83	18,79	-
STD DEVIATION	-	-	0,14	0,17	-
MEDIAN	-	-	17,83	18,79	-
%RSD	-	-	0,76	0,90	-
ROBUST AVERAGE	-	-	17,83	18,79	-
ROBUST STD DEVIATION	-	-	0,14	0,18	-
UoM			0,02	0,03	-



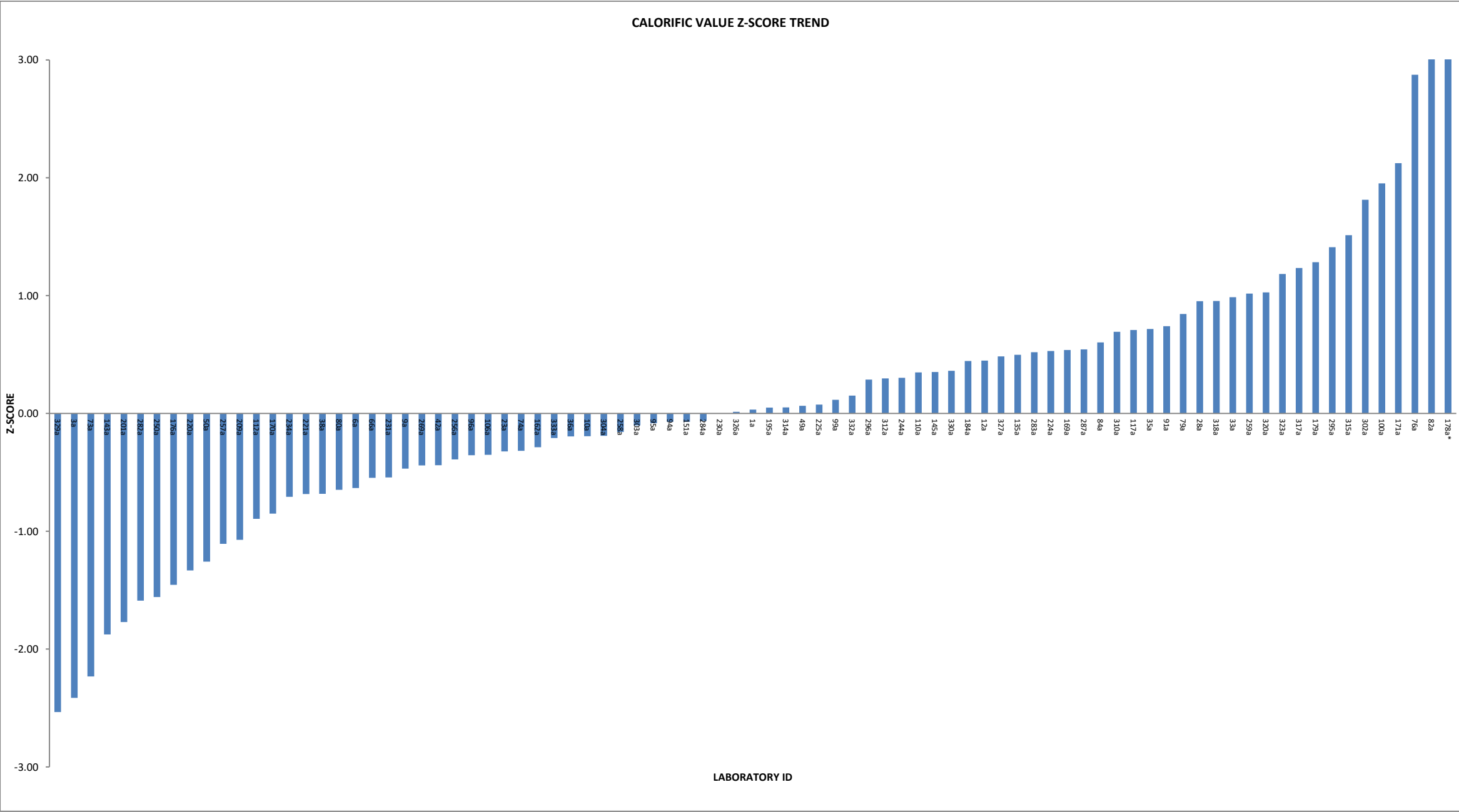
COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: QUICK ASH (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	3a	5,70	17,90	18,98	0,79
	9a	5,30	17,40	18,37	-2,02
	13a	5,67	17,71	18,77	-0,17
	23a	4,80	18,00	18,91	0,45
	35a	5,40	17,40	18,39	-1,93
	36a	5,40	17,60	18,60	-0,95
	38a	5,20	17,30	18,25	-2,60
	49a	5,53	17,81	18,85	0,19
	50a	5,10	17,90	18,86	0,24
	59a	5,00	17,68	18,61	-0,93
	73a	4,25	17,89	18,68	-0,59
	74a	5,20	17,80	18,78	-0,16
	80a	5,50	17,92	18,96	0,70
	84a	5,76	17,76	18,85	0,16
	91a	5,10	18,00	18,97	0,72
	94a	5,60	17,90	18,96	0,70
	95a	4,60	17,90	18,76	-0,22
	100a	6,04	17,56	18,69	-0,56
	112a	5,10	17,65	18,60	-0,98
	143a	4,77	17,83	18,72	-0,41
	<u>145a*</u>	4,57	<u>18,87</u>	<u>19,77</u>	<u>4,46</u>
	162a	5,30	17,90	18,90	0,42
	169a	4,10	17,87	18,63	-0,82
	171a	5,29	17,76	18,75	-0,27
	176a	5,10	17,80	18,76	-0,25
	178a	5,00	18,00	18,95	0,63
	179a	5,10	17,90	18,86	0,24
	184a	5,50	18,00	19,05	1,10
	201a	4,80	18,20	19,12	1,42
	221a	4,80	17,50	18,38	-1,98
	224a	5,20	18,10	19,09	1,31
	230a	4,86	17,93	18,85	0,16
	231a	5,41	17,91	18,93	0,57
	234a	5,70	17,87	18,95	0,65
	244a	5,10	17,80	18,76	-0,25
	257a	5,00	17,70	18,63	-0,83
	258a	5,90	17,80	18,92	0,49
	259a	5,32	17,80	18,80	-0,05
	267a	5,28	17,95	18,95	0,65
	269a	5,00	17,50	18,42	-1,80
	282a	4,60	17,80	18,66	-0,71
	283a	5,43	17,74	18,76	-0,24
	284a	4,89	17,92	18,84	0,14
	287a	5,10	17,87	18,83	0,09
	296a	5,20	17,73	18,70	-0,50
	<u>302a*</u>	3,72	<u>18,70</u>	19,42	2,83
	303a	4,43	17,80	18,63	-0,86
	304a	5,72	17,76	18,84	0,12
	310a	5,70	17,90	18,98	0,79
	312a	4,89	18,10	19,03	1,02
	314a	5,60	17,40	18,43	-1,75
	315a	4,62	18,21	19,09	1,30
	317a	5,50	18,00	19,05	1,10
	318a	3,94	18,04	18,78	-0,14
	320a	5,09	18,09	19,06	1,15
	323a	5,86	17,91	19,02	0,99
	327a	5,10	17,90	18,86	0,24
	329a	3,20	18,00	18,60	-1,00
	330a	5,10	17,89	18,85	0,19
	332a	5,23	17,84	18,82	0,06
Number of results	-	61	61	61	-
OUTLIERS	-	-	2	1	-
AVERAGE	-	5,10	17,84	18,81	-
STD DEVIATION	-	-	0,20	0,22	-
MEDIAN			17,87	18,84	
%RSD	-	-	1,10	1,15	
ROBUST AVERAGE	-	-	17,84	18,81	
ROBUST STD DEVIATION	-	-	0,21	0,22	
UoM			0,03	0,04	



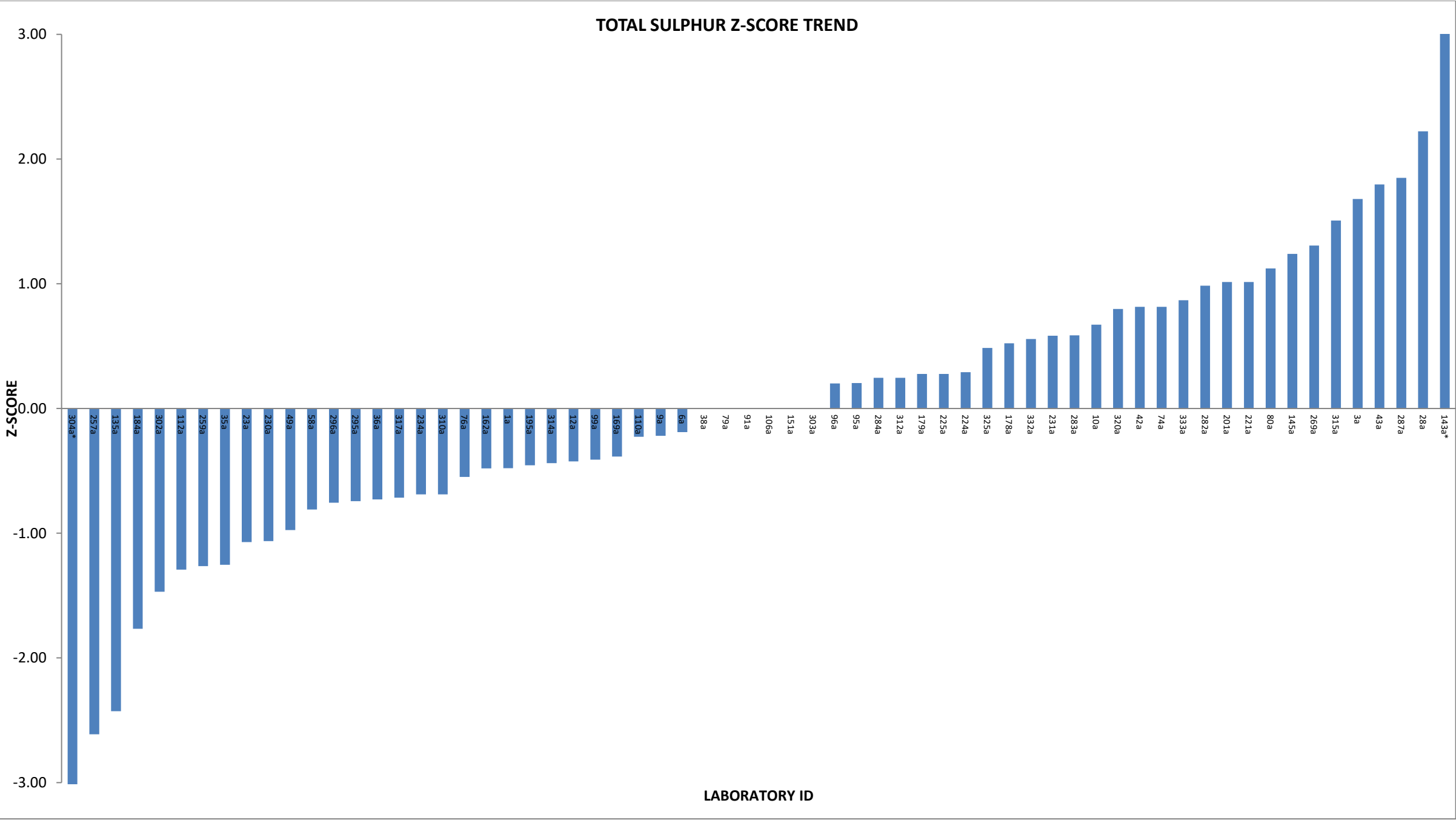
COAL CONCEPTS - PROFICIENCY TESTING - MAY 2026					
ANALYTICAL PARAMETER : ISO VOLATILE MATTER (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	5,31	22,58	23,85	-0,58
	3a	5,70	22,30	23,65	-1,09
	6a	5,51	22,92	24,26	0,48
	7a	5,79	22,41	23,79	-0,73
	9a	5,30	22,50	23,76	-0,80
	10a	4,25	22,97	23,99	-0,21
	12a	5,70	23,56	24,98	2,35
	13a	5,67	22,64	24,00	-0,18
	23a	4,80	22,90	24,05	-0,04
	28a	5,79	23,14	24,56	1,27
	33a	5,30	22,40	23,65	-1,07
	35a	5,40	22,50	23,78	-0,74
	36a	5,40	22,40	23,68	-1,01
	38a	5,20	22,60	23,84	-0,59
	42a	5,20	23,00	24,26	0,49
	49a	5,53	22,96	24,30	0,60
	50a	5,10	22,70	23,92	-0,39
	58a	4,80	22,48	23,61	-1,18
	59a	5,00	23,25	24,47	1,04
	66a	5,01	22,99	24,20	0,34
	73a	4,25	23,35	24,39	0,81
	74a	5,20	22,80	24,05	-0,05
	76a	4,80	22,40	23,53	-1,39
	79a	5,68	22,75	24,12	0,13
	80a	5,50	22,41	23,71	-0,92
	82a	5,20	22,56	23,80	-0,70
	91a	5,10	23,80	25,08	2,60
	94a	5,60	22,60	23,94	-0,33
	95a	4,60	22,90	24,00	-0,17
	96a	4,58	22,64	23,73	-0,89
	99a	5,80	22,13	23,49	-1,49
	<u>100a*</u>	6,04	<u>26,99</u>	<u>28,72</u>	<u>11,99</u>
	106a	4,90	23,29	24,49	1,08
	110a	5,24	22,52	23,77	-0,79
	112a	5,10	22,83	24,06	-0,03
	117a	5,00	22,70	23,89	-0,45
	135a	4,35	23,57	24,64	1,47
	143a	4,77	23,44	24,61	1,40
	145a	4,57	23,00	24,10	0,08
	151a	5,60	22,80	24,15	0,21
	162a	5,30	22,65	23,92	-0,39
	169a	4,10	22,82	23,80	-0,71
	<u>171a*</u>	5,29	<u>35,25</u>	<u>37,22</u>	<u>33,88</u>
	178a	5,00	22,49	23,67	-1,02
	179a	5,10	22,70	23,92	-0,39
	184a	5,50	22,50	23,81	-0,67
	195a	5,48	22,54	23,85	-0,58
	201a	4,80	24,00	25,21	2,94
	220a	4,85	23,45	24,65	1,48
	221a	4,80	23,20	24,37	0,77
	224a	5,20	22,86	24,11	0,11
	225a	5,10	23,20	24,45	0,97
	230a	4,86	22,90	24,07	0,00
	231a	5,41	22,95	24,26	0,50
	234a	5,70	22,90	24,28	0,55
	<u>250a*</u>	4,38	<u>30,92</u>	<u>32,34</u>	<u>21,30</u>
	256a	5,55	22,25	23,56	-1,32
	257a	5,00	23,73	24,98	2,34
	258a	5,90	23,00	24,44	0,96
	259a	5,32	22,40	23,66	-1,06
	267a	5,28	22,67	23,93	-0,35
	<u>269a*</u>	5,00	21,50	<u>22,63</u>	-3,71
	282a	4,60	23,03	24,14	0,18
	283a	5,43	22,86	24,17	0,26
	284a	4,89	22,55	23,71	-0,93
	295a	5,30	22,41	23,66	-1,05
	296a	5,20	22,60	23,84	-0,59
	302a	3,72	23,10	23,99	-0,20
	303a	4,43	22,72	23,77	-0,77
	304a	5,72	22,89	24,28	0,54
	310a	5,70	22,60	23,97	-0,27
	312a	4,89	22,78	23,95	-0,31
	314a	5,60	22,80	24,15	0,21
	315a	4,62	22,20	23,28	-2,05
	317a	5,50	22,80	24,13	0,15
	318a	3,94	23,10	24,05	-0,06
	320a	5,09	22,77	23,99	-0,20
	323a	5,86	22,52	23,92	-0,38
	<u>325a*</u>	4,75	<u>26,13</u>	<u>27,43</u>	<u>8,66</u>
	326a	5,10	23,22	24,47	1,02
	329a	3,20	23,10	23,86	-0,53
	332a	5,23	22,75	24,01	-0,17
NUMBER OF RESULTS	-	83	83	83	-
OUTLIERS	-	-	4	3	-
AVERAGE	-	5,11	22,82	24,07	-
STD DEVIATION	-		0,42	0,39	-
MEDIAN			22,80	24,00	
%RSD	-	-	1,83	1,61	
ROBUST AVERAGE	-	-	22,82	24,07	-
ROBUST STD DEVIATION	-	-	0,43	0,42	-
UoM	-	-	0,06	0,06	-



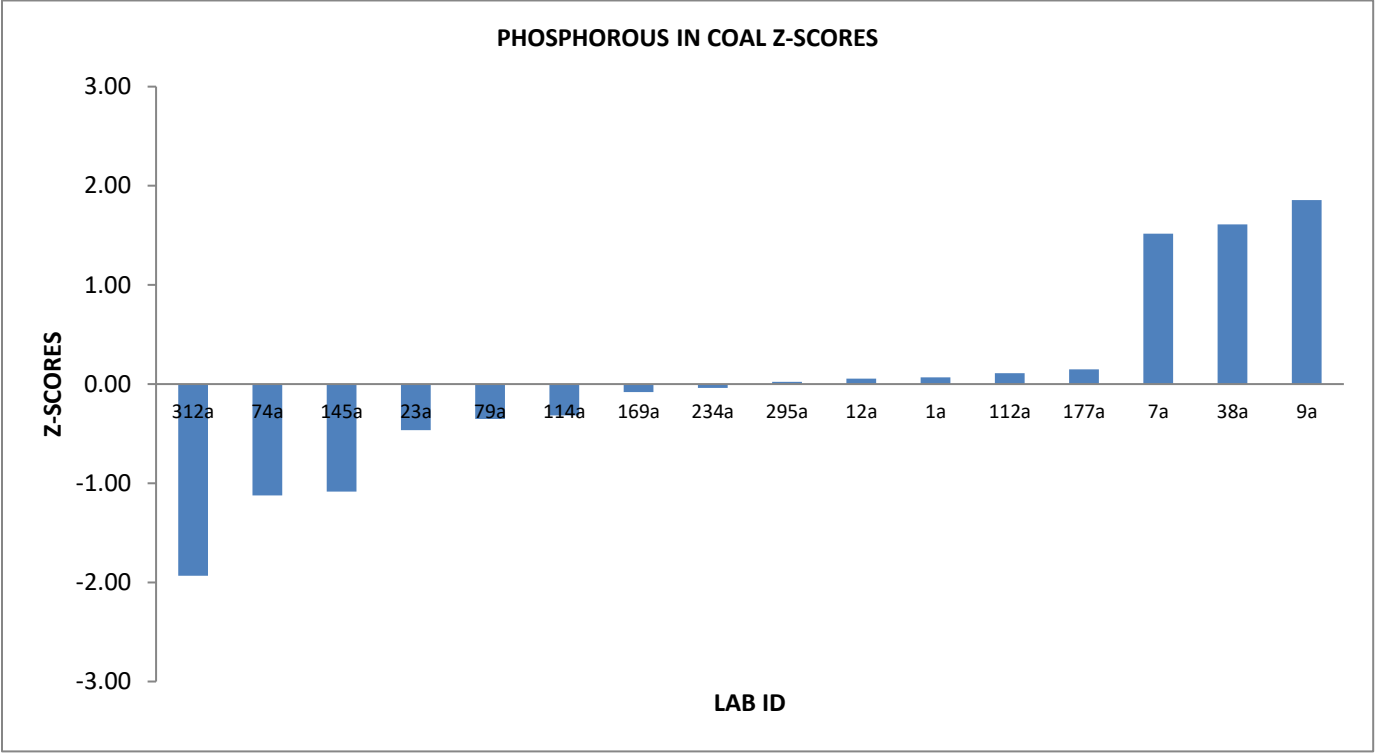
COAL CONCEPTS - PROFICIENCY TESTING - MAY 2026					
ANALYTICAL PARAMETER: CALORIFIC VALUE (MJ/kg)					
LAB ID	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (MJ/kg)	DRY BASE (MJ/kg)	Z-SCORE (DRY BASE)
	1a	5,31	23,90	25,24	0,03
	3a	5,70	23,40	24,81	-2,41
	6a	5,51	23,74	25,12	-0,63
	9a	5,30	23,82	25,15	-0,47
	10a	4,25	24,13	25,20	-0,19
	12a	5,70	23,87	25,31	0,45
	23a	4,80	23,97	25,18	-0,32
	28a	5,79	23,93	25,40	0,95
	33a	5,30	24,06	25,41	0,99
	35a	5,40	23,99	25,36	0,72
	36a	5,40	23,84	25,20	-0,19
	38a	5,20	23,81	25,12	-0,68
	42a	5,20	23,85	25,16	-0,44
	49a	5,53	23,85	25,25	0,07
	50a	5,10	23,74	25,02	-1,26
	66a	5,01	23,88	25,14	-0,55
	73a	4,25	23,79	24,85	-2,23
	74a	5,20	23,87	25,18	-0,32
	76a	4,80	24,50	25,74	2,87
	79a	5,68	23,94	25,38	0,84
	80a	5,50	23,74	25,12	-0,65
	82a	5,20	24,57	25,92	3,92
	84a	5,76	23,88	25,34	0,60
	91a	5,10	24,07	25,36	0,74
	94a	5,60	23,81	25,22	-0,07
	95a	4,60	24,06	25,22	-0,08
	96a	4,58	24,02	25,17	-0,35
	99a	5,80	23,79	25,25	0,12
	100a	6,04	24,03	25,57	1,95
	106a	4,90	23,94	25,17	-0,35
	110a	5,24	23,97	25,30	0,35
	112a	5,10	23,80	25,08	-0,89
	117a	5,00	24,09	25,36	0,71
	135a	4,35	24,22	25,32	0,50
	143a	4,77	23,72	24,91	-1,88
	145a	4,57	24,14	25,30	0,35
	151a	5,60	23,81	25,22	-0,07
	162a	5,30	23,85	25,18	-0,29
	169a	4,10	24,29	25,33	0,54
	171a	5,29	24,25	25,60	2,12
	176a	5,13	23,70	24,98	-1,45
	178a*	5,00	25,13	26,45	6,99
	179a	5,10	24,16	25,46	1,28
	184a	5,50	23,92	25,31	0,44
	195a	5,48	23,86	25,24	0,05
	201a	4,80	23,73	24,93	-1,77
	209a	5,82	23,59	25,05	-1,07
	220a	4,85	23,79	25,00	-1,33
	221a	4,80	23,91	25,12	-0,68
	224a	5,20	24,01	25,33	0,53
	225a	5,10	23,96	25,25	0,07
	230a	4,86	24,00	25,23	0,00
	231a	5,41	23,78	25,14	-0,54
	234a	5,70	23,68	25,11	-0,71
	244a	5,13	23,99	25,29	0,30
	250a	4,38	23,87	24,96	-1,56
	256a	5,55	23,77	25,17	-0,39
	257a	5,00	23,79	25,04	-1,11
	258a	5,90	23,72	25,21	-0,16
	259a	5,32	24,06	25,41	1,02
	269a	5,00	23,90	25,16	-0,44
	282a	4,60	23,81	24,96	-1,59
	283a	5,43	23,95	25,33	0,52
	284a	4,89	23,99	25,22	-0,06
	287a	5,13	24,03	25,33	0,54
	295a	5,30	24,13	25,48	1,41
	296a	5,20	23,97	25,28	0,29
	302a	3,72	24,60	25,55	1,81
	303a	4,43	24,10	25,22	-0,10
	304a	5,72	23,76	25,20	-0,19
	310a	5,70	23,91	25,36	0,69
	312a	4,89	24,05	25,29	0,30
	314a	5,60	23,83	25,24	0,05
	315a	4,62	24,32	25,50	1,51
	317a	5,50	24,05	25,45	1,23
	318a	3,94	24,40	25,40	0,95
	320a	5,09	24,12	25,41	1,03
	323a	5,86	23,95	25,44	1,18
	326a	5,10	23,95	25,24	0,01
	327a	5,13	24,02	25,32	0,48
	329a	3,20	24,00	24,79	-2,53
	330a	5,13	24,00	25,30	0,36
	332a	5,23	23,94	25,26	0,15
	333a	5,55	23,80	25,20	-0,21
NUMBER OF RESULTS	-	85	85	85	-
OUTLIERS	-	-	1	2	-
AVERAGE	-	5,13	23,95	25,23	-
STD DEVIATION	-	-	0,20	0,17	-
MEDIAN			23,94	25,24	
%RSD	-	-	0,84	0,69	
ROBUST AVERAGE	-	-	23,95	25,23	-
ROBUST STD DEVIATION	-	-	0,21	0,19	-
UoM	-	-	0,03	0,03	-



COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: TOTAL SULPHUR (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	5,31	0,50	0,53	-0,48
	3a	5,70	0,58	0,62	1,68
	6a	5,51	0,51	0,54	-0,19
	9a	5,30	0,51	0,54	-0,22
	10a	4,25	0,55	0,57	0,67
	12a	5,70	0,50	0,53	-0,42
	23a	4,80	0,48	0,50	-1,07
	28a	5,79	0,60	0,64	2,22
	35a	5,40	0,47	0,50	-1,25
	36a	5,40	0,49	0,52	-0,73
	38a	5,20	0,52	0,55	0,00
	42a	5,20	0,55	0,58	0,81
	43a	4,80	0,59	0,62	1,80
	49a	5,53	0,48	0,51	-0,97
	58a	4,80	0,49	0,51	-0,81
	74a	5,20	0,55	0,58	0,81
	76a	4,80	0,50	0,53	-0,55
	79a	5,68	0,52	0,55	0,00
	80a	5,50	0,56	0,59	1,12
	91a	5,10	0,52	0,55	0,00
	95a	4,60	0,53	0,56	0,20
	96a	4,58	0,53	0,56	0,20
	99a	5,80	0,50	0,53	-0,41
	106a	4,90	0,52	0,55	0,00
	110a	5,24	0,51	0,54	-0,23
	112a	5,10	0,47	0,50	-1,29
	135a	4,35	0,43	0,45	-2,43
	<u>143a*</u>	4,77	<u>1,50</u>	<u>1,58</u>	<u>25,51</u>
	145a	4,57	0,57	0,60	1,24
	151a	5,60	0,52	0,55	0,00
	162a	5,30	0,50	0,53	-0,48
	169a	4,10	0,51	0,53	-0,39
	178a	5,00	0,54	0,57	0,52
	179a	5,10	0,53	0,56	0,28
	184a	5,50	0,45	0,48	-1,77
	195a	5,48	0,50	0,53	-0,46
	201a	4,80	0,56	0,59	1,01
	221a	4,80	0,56	0,59	1,01
	224a	5,20	0,53	0,56	0,29
	225a	5,10	0,53	0,56	0,28
	230a	4,86	0,48	0,50	-1,06
	231a	5,41	0,54	0,57	0,58
	234a	5,70	0,49	0,52	-0,69
	257a	5,00	0,42	0,44	-2,61
	259a	5,32	0,47	0,50	-1,26
	269a	5,00	0,57	0,60	1,31
	282a	4,60	0,56	0,59	0,98
	283a	5,43	0,54	0,57	0,59
	284a	4,89	0,53	0,56	0,25
	287a	5,12	0,59	0,62	1,85
	295a	5,30	0,49	0,52	-0,74
	296a	5,20	0,49	0,52	-0,76
	302a	3,72	0,47	0,49	-1,47
	303a	4,43	0,53	0,55	0,00
	<u>304a*</u>	5,72	<u>0,38</u>	<u>0,40</u>	<u>-3,58</u>
	310a	5,70	0,49	0,52	-0,69
	312a	4,89	0,53	0,56	0,25
	314a	5,60	0,50	0,53	-0,44
	315a	4,62	0,58	0,61	1,51
	317a	5,50	0,49	0,52	-0,72
	320a	5,09	0,55	0,58	0,80
	325a	4,75	0,54	0,57	0,49
	332a	5,23	0,54	0,57	0,56
	333a	5,55	0,55	0,58	0,87
NUMBER OF RESULTS		64	64	64	-
OUTLIERS	-	-	2	2	-
AVERAGE	-	5,12	0,52	0,55	
MEDIAN		-	0,52	0,55	
STD DEVIATION	-	-	0,04	0,04	
%RSD	-	-	7,37	7,36	
ROBUST AVERAGE	-	-	0,52	0,55	-
ROBUST STD DEVIATION	-	-	0,04	0,04	-
UoM	-	-	0,01	0,01	-



COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: PHOSPHOROUS IN COAL (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	5,31	0,105	0,111	0,07
	7a	5,79	0,165	0,175	1,52
	9a	5,30	0,180	0,190	1,85
	12a	5,70	0,104	0,110	0,06
	23a	4,80	0,083	0,087	-0,47
	38a	5,20	0,170	0,179	1,61
	74a	5,20	0,055	0,058	-1,12
	79a	5,68	0,087	0,092	-0,35
	112a	5,10	0,107	0,113	0,11
	114a	5,16	0,089	0,094	-0,32
	145a	4,57	0,057	0,060	-1,08
	169a	4,10	0,100	0,104	-0,08
	177a	4,78	0,109	0,114	0,15
	234a	5,70	0,100	0,106	-0,04
	295a	5,30	0,103	0,109	0,02
	312a	4,89	0,021	0,022	-1,93
Number of results	-	16	16	16	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	5,16	0,102	0,108	-
STD DEVIATION	-	-	0,042	0,044	-
MEDIAN		-	0,102	0,107	
ROBUST AVERAGE	-	-	0,102	0,108	
ROBUST STD DEVIATION	-	-	0,043	0,046	
UoM	-	-	0,013	0,014	



COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: TOTAL CARBON (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	5,31	62,48	65,98	0,05
	9a	5,30	62,43	65,92	-0,09
	12a	5,70	61,30	65,01	-2,11
	42a	5,20	63,01	66,47	1,11
	<u>43a*</u>	4,80	<u>67,46</u>	<u>70,86</u>	<u>10,78</u>
	79a	5,68	62,72	66,50	1,18
	224a	5,20	62,37	65,79	-0,38
	234a	5,70	61,90	65,64	-0,71
	295a	5,30	62,78	66,29	0,73
	312a	4,89	62,52	65,73	-0,50
	<u>325a*</u>	4,75	<u>65,03</u>	<u>68,27</u>	<u>5,08</u>
	333a	5,55	62,61	66,29	0,72
Number of results		-	12	12	-
OUTLIERS		-	2	2	-
AVERAGE		-	62,41	65,96	-
MEDIAN		-	62,50	65,95	-
STD DEVIATION		-	0,49	0,45	-
%RSD		-	0,78	0,69	
ROBUST AVERAGE		-	-	-	
ROBUST STD DEVIATION		-	-	-	
UoM		-	-	-	

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: HYDROGEN (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	5,31	3,31	3,50	0,52
	9a	5,30	3,29	3,47	0,37
	12a	5,70	3,15	3,34	-0,60
	42a	5,20	3,13	3,30	-0,88
	<u>43a</u>	4,80	<u>3,80</u>	<u>3,99</u>	<u>4,11</u>
	79a	5,68	3,31	3,51	0,62
	224a	5,20	3,27	3,45	0,19
	234a	5,70	3,40	3,61	1,32
	295a	5,30	3,34	3,53	0,75
	312a	4,89	3,24	3,41	-0,12
	333a	5,55	2,95	3,12	-2,17
Number of results		11	11	11	
OUTLIERS		-	1	1	-
AVERAGE		-	5,33	3,24	3,42
MEDIAN		-	3,28	3,46	-
STD DEVIATION		-	0,13	0,14	-
%RSD		-	4,03	4,04	
ROBUST AVERAGE		-	3,26	3,44	
ROBUST STD DEVIATION		-	0,13	0,14	
UoM		-	0,05	0,05	

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: NITROGEN (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	5,31	1,46	1,54	-0,30
	9a	5,30	1,37	1,45	-2,10
	12a	5,70	1,45	1,54	-0,38
	42a	5,20	1,52	1,60	0,86
	<u>43a*</u>	4,80	1,76	<u>1,85</u>	<u>5,50</u>
	79a	5,68	1,52	1,61	1,01
	224a	5,20	1,51	1,59	0,66
	295a	5,30	1,47	1,55	-0,11
	312a	4,89	1,50	1,58	0,36
	<u>333a*</u>	5,55	1,93	<u>2,04</u>	<u>9,17</u>
Number of results		10	10	10	-
OUTLIERS		-	0	2	-
AVERAGE		-	5,29	1,55	1,56
MEDIAN		-	1,51	1,56	-
STD DEVIATION		-	0,17	0,05	-
%RSD		-	10,79	3,40	-
ROBUST AVERAGE		-	-	-	-
ROBUST STD DEVIATION		-	-	-	-
UoM		-	-	-	-

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026				
ANALYTICAL PARAMETER: ASH FUSION TEMPERATURES (oC)				
LAB ID	DEFORMATION	SOFTENING	HEMISPHERE	FLOW
1a	1430	1440	1450	1460
9a	1450	1460	1470	1480
10a	1380	1400	1440	1480
23a	1400	1440	1490	1500
38a	1450	1460	1470	1480
42a	1400	1430	1460	1490
49a	1420	1430	1460	1500
80a	1420	1460	1500	1500
95a	1400	1430	1460	1490
106a	1480	1500	1500	1500
112a	1470	1490	1520	1500
145a	1370	1410	1440	1470
151a	1380	1410	1440	1480
224a	1390	1420	1460	1500
234a	1430	1460	1490	1500
295a	1430	1440	1470	1490
312a	1390	1400	1410	1500
315a	1393	1445	1460	1480
317a	1420	1450	1480	1500
Number of results	19	19	19	19
Outliers	0	0	0	0
AVERAGE	1416	1441	1467	1489
MEDIAN	1420	1440	1460	1490
STDEV	31	27	26	12

Z-SCORES				
LAB ID	DEFORMATION	SOFTENING	HEMISPHERE	FLOW
1a	0,45	-0,03	-0,65	-2,41
9a	1,10	0,70	0,12	-0,77
10a	-1,16	-1,49	-1,03	-0,77
23a	-0,51	-0,03	0,89	0,86
38a	1,10	0,70	0,12	-0,77
42a	-0,51	-0,39	-0,26	0,04
49a	0,13	-0,39	-0,26	0,86
80a	0,13	0,70	1,27	0,86
95a	-0,51	-0,39	-0,26	0,04
106a	2,07	2,16	1,27	0,86
112a	1,74	1,80	2,04	0,86
145a	-1,48	-1,12	-1,03	-1,59
151a	-1,16	-1,12	-1,03	-0,77
224a	-0,84	-0,76	-0,26	0,86
234a	0,45	0,70	0,89	0,86
295a	0,45	-0,03	0,12	0,04
312a	-0,84	-1,49	-2,18	0,86
315a	-0,74	0,15	-0,26	-0,77
317a	0,13	0,34	0,51	0,86

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: CHLORINE (ppm)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	12a	5,7	0.004	-	-
	177a	4,78	163	171	-
Number of results	-	3	3	3	-
OUTLIERS	-	-	-	-	-
AVERAGE	-	5,24	163	171	-
STD DEVIATION	-	-	-	-	-
MEDIAN	-	-	-	-	-

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: FLUORINE (ppm)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	12a	5,7	0.013	-	-
	169a	4,1	157	164	-
	177a	4,78	107	112	-
Number of results	-	3	2	2	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	4,86	132	138	-
STD DEVIATION	-	-	35	36	-
MEDIAN	-	-	132	138	-

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: ASTM ASH (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	1a	5,31	17,93	18,94	0,41
	12a	5,70	17,60	18,66	-1,60
	209a	5,82	17,92	19,03	1,09
	224a	5,20	17,93	18,91	0,24
	312a	4,89	17,94	18,86	-0,13
Number of results	-	5	5	5	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	5,38	17,86	18,88	-
STD DEVIATION	-	-	0,15	0,14	-
MEDIAN	-	-	17,93	18,91	
%RSD	-	-	0,83	0,72	-

COAL CONCEPTS - PROFICIENCY TESTING -MAY 2026					
ANALYTICAL PARAMETER: ASTM VOLS (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	1a	5,31	22,48	23,74	-1,79
	12a	5,70	23,57	24,99	0,51
	209a	5,82	24,06	25,55	1,51
	224a	5,20	23,49	24,78	0,11
	312a	4,89	23,33	24,53	-0,34
Number of results	-	5	5	5	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	5,38	23,39	24,72	-
STD DEVIATION	-	-	0,50	0,55	-
MEDIAN	-	-	23,41	24,65	
%RSD	-	-	2,15	2,22	-

GENERAL CONCLUSIONS

1. The ISO Ash z-score trend is evenly distributed. The Robust average, Average and Median are similar. Two outliers were detected.
2. The overall ISO volatile trend is evenly distributed. Four outliers were detected. These were due to analytical errors. An RSD of 1.61 % indicated a high precision of results received.
3. Calorific value trend is evenly distributed. Two outliers were detected. These seemed to be due to calibration errors. The Average, Median and Robust Average are the similar.
4. The sulphur z-score trend is evenly distributed. Two outliers were detected. The Average, Median and Robust Average are similar. A low precision of results received.
5. The phosphorous analysis results show a wide scatter, indicating significant data variability. No outlier was detected.
6. Generally acceptable results were obtained on Carbon, Hydrogen and Nitrogen. Two Outliers were detected on Carbon and one on Hydrogen.
7. Ash fusion: Generally acceptable results. No outlier was detected.

COAL CONCEPTS: Terms and Conditions

Return of results:

Laboratories participate in proficiency testing programs on the understanding that they will be sharing their results and information **anonymously** with other laboratories performing the same analysis. No return of results compromises the spirit of the programs, and reports will not be sent to laboratories unless they return results. Payment in full is required from all laboratories enrolling whether they return results or not.

Errors in Participant Proficiency Testing Results:

Proficiency testing reports should reflect the level of accuracy that a regular testing client would receive.

If a participant finds an error in their proficiency testing results, they may notify us in writing and change their submission **PRIOR** to the due date for return. Changes after this time will not be accepted.

Coal Concepts' reports result *as submitted* by participants.

On occasion, it seems as though participants have mixed up the samples or not processed the samples according to the instructions. Coal Concepts cannot make assumptions of this nature and change results 'to suit'. We also cannot compromise the integrity of the programs by suggesting to some participants that they should review their results prior to the due date. (This is unfair to other participants) It is the responsibility of the participants to check all aspects of the program, including sample identification, preparation, testing instructions, calculations and reporting of the results prior to results submission.

If samples are not in good condition on arrival to the participant laboratory, Coal Concepts must be notified in writing IMMEDIATELY, as often samples can be replaced in good time. Claims about samples received in bad condition will not be accepted after the report has been issued.

Late Enrolments and Late Results:

Late enrolment requests cannot always be accommodated, as sample manufacture must be scheduled well in advance to the shipping date of the program to allow all necessary quality assurance activities to be carried out.

Shipping of PT materials and evaluating test results from PTPs out of cycle with the mainstream programs is considerably time consuming and therefore costly.

In order not to disadvantage participants able to comply with time frames, Coal Concepts may charge a late fee in the following circumstances:

Requests that Coal concepts staff enters results on behalf of participants.

Requests to record results after the due date.

Requests for PTP participation that is out of cycle with the scheduled dates.

Shipping fees and Customs clearance:

Costs incurred for shipping samples and clearance of same through customs are the responsibility of the participating laboratory unless otherwise indicated.

Non-payment of fees:

Coal Concepts retains the right to withhold reports and/or test materials and services when invoices are outstanding.

Confidentiality of results:

All data and information received by Coal Concepts from its clients are considered confidential unless the client has given express permission to pass on information.

Definitions:

The dictionary definitions of "collusion" and "falsification" are as follows.

· *Collusion*: A secret agreement or cooperation for a fraudulent or deceitful purpose.

· *Falsification*: Deliberately changing something to be false. In proficiency testing terms, collusion is comparing data (and perhaps changing data) to fit in with a believed "correct" result. This is contrary to the spirit of proficiency testing programs, which are issued with the intention of providing an objective comparison of a laboratory's performance with others. Coal Concepts tries to minimise the occurrence of collusion by being aware that laboratories should be objective when they report their results and should therefore not know the intended results at the time, they are reporting to us.

Answers are not provided to clients until results have been submitted.

To prevent collusion and falsification our advice to clients is:

DON'T confer with others about PT samples or results.

DO accept the fact that everyone makes errors.

DON'T average the results or opinions of every person in the laboratory before selecting the answer to be submitted. Instead, use one of the answers AS SUBMITTED to you and take advantage of the Coal Concepts internal QA services and submit all answers generated by the technicians.

DO have confidence in your own results.

Proficiency Testing (PT) is a compulsory part of laboratory accreditation, but it is also an important tool for giving you confidence in your results. "Enhancing" your PT results with assistance from another participant cannot increase confidence in your laboratory's performance.

Coal concepts' testing staff are not told what the expected results are, nor what we are expecting.

We subject ALL results to analysis, even if they are different.

The staff have the right to check that the results we enter on their behalf are correctly transcribed.

Clients are always welcome to contact Coal Concepts to seek advice or information about collusion or falsification of data.

Policy for Participant Appeal of PT Performance Assessment:

If participants disagree with their performance assessment in a proficiency report, they should inform Coal Concepts in writing.

The response will include Coal Concepts interpretation of the outcome of the reassessment and an explanation of that outcome.

(For example, explanation of a calculation, or the rationale for the outcome of the evaluation.)

If a mistake has been made by Coal Concepts, it will be dealt with via Coal Concepts' non-conformance system.

Liability

In no event shall a party's liability to the other party for direct damages exceed an amount equal to the value of the amount for the PT Programme, under that specific month.

End of report