

GEOSTATS PTY LTD

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Certificate of Participation

This is to certify that

Zarazma Minerals Studies Company

has participated in the October 2024
Geostats Survey of International Laboratories

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Operations Manager

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Managing Director

Geostats Laboratory Survey
October 2024

Prepared for
Zarazma Minerals Studies Company

Confidential

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THIS DOCUMENT SHOULD NOT BE CIRCULATED OUTSIDE THE COMPANY WHOSE NAME APPEARS ON THE COVER.**

To the reader,

This survey of laboratories undertaken by Geostats is performed as a service to both the Mining Industry and the Analytical Industry. It is envisaged that it can be used as a tool for the maintenance of high standards in both industries.

The report to the Mining Houses identifies most commercial laboratories and should be treated as confidential information. Some commercial facilities prefer to pay for the inclusion of their sites and these are not identified to the Mining Houses. This report should not be circulated outside of the Client Company or reproduced for the benefit of other mining groups.

It is not the intent of this survey to provide marketing tools for the analytical industry. A laboratory report is available which identifies only the laboratory or group requesting the report. This allows the laboratory to assess their performance in relation to the rest of the analytical industry. All the laboratories identified have taken advantage of this report and included it as part of their ongoing quality control procedures. Participation in these surveys is an indication of the laboratory's interest in quality and should be regarded as a positive sign regardless of the outcome.

Many thanks to both the laboratories and the Mining Houses for their ongoing support of this survey.

Kind regards,

Stuart Romero BSc, BEng

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Geostats Pty Ltd, O'Connor, Western Australia
Listing of Participating Laboratories for Round Robin - October 2024

Western Australia			
ALSM CANNING VALE PA	ALS Canning Vale - PA		
ALSM KAL	ALS Minerals - Kalgoorlie		
ALSM KAL W	ALS Minerals - Kalgoorlie West		
ALSM METALLURGY	Ammtec Laboratory		
ALSM PERTH	ALS Minerals - Perth		
AURENNE MT IDA	Aurenne Group		
AURUM BECK	Aurum Laboratories Pty Ltd		
BELLEVUE GOLD	Bellevue Gold		
BV CUNNINGHAM	Kalassay Group (Kalgoorlie Assay Laboratory)		
BV KAL	BV Atbara - Kalgoorlie		
BV PERTH	Ultra Trace Pty Ltd		
GEKKO VICTORIA	Gekko Assay Laboratory		
GF GRUYERE	Gruyere Gold Mine Laboratory		
GOLDEN GROVE	EMR Golden Grove		
GRANNYS	Granny Smith Gold Mine Laboratory		
INT GEN PER	Genalysis Laboratory Services Pty Ltd		
JINNING WA	Jinning Testing and Inspection		
KARORA HIGGINSVILLE	Karora Resources - Higginsville Operation		
KARORA LAKEWOOD	Karora Resources - Lakewood Mill		
LABWEST	LabWest		
MPS PERTH	Mining and Process Solutions Pty Ltd		
NEWCREST TELFER	Newmont Mining Limited - Telfer Gold Mine Lab		
SGS KALG	SGS Kalgoorlie		
SGS PERTH AIRPORT	SGS Perth Airport		
SGS TROPICANA	SGS Tropicana		
New South Wales			
ALSM ORANGE	ALS Minerals - Orange		
NEWCREST ORANGE	Newmont Laboratory Services Orange		
PEAK GOLD MINE	Peak Gold Mine		
Northern Territory			
NEWMONT TANAMI	Granites Gold Mine		
Queensland			
ALSM BRIS	ALS Minerals - Brisbane		
ALSM MT ISA	ALS Minerals - Mt Isa		
ALSM TVL	ALS Minerals - Townsville		
CHEM LAB MIM	Mount Isa Mines Analytical Laboratory		
GEN TOWNSVILLE	Genalysis Testing Services, Townsville		
HRLTESTING	HRL Testing		
South Australia			
BV ADL	Bureau Veritas Minerals - Wingfield		
INT GEN ADEL	Genalysis Laboratory Services - Adelaide		
Tasmania			
ALSM BURNIE	ALS Geochemistry - Burnie		
Argentina			
ASI MENDOZA	Alex Stewart International Argentina SA - Mendoza		
ASI PERITO MORENO	Alex Stewart International Argentina SA - Perito Moreno		
CERRO NEGRO	Goldcorp - Cerro Negro		
MANSFIELD ARG	Mansfield Mineras S.A.		
VELADERO MINE	Veladero Project Assay Lab		
Brazil			
PARACATU MINE	Kinross Brasil Mineração SA		
SGS LF BELO HOR	SGS Geosol Laboratórios Ltda		
Bulgaria			
DIAL BULGARIA	DIAL Ltd		
SGS BULGARIA	SGS Bulgaria		
Burkina Faso			
ALSM OUAGADOUGOU	ALS Burkina SARL		
BISSA GOLD	Bissa Gold SA		
BUMIGEB BF	Bumigeb		
IAMGOLD BF	IAMGOLD Essakane SA		
SGS KARMA	SGS Karma Laboratory		
SGS OUAGADOUGOU	SGS Burkina SA		
Canada			
ACME VAN	Bureau Veritas Commodities Canada Ltd - Vancouver		
ACTLABS CAN	Activation Laboratories Ltd (Canada)		
ACTLABS TB	Activation Laboratories Ltd - Thunder Bay		
AGAT CALGARY	AGAT Laboratories - Calgary		
AGAT TB	AGAT Laboratories - Thunder Bay		
ALSM QUEBEC	ALS Minerals (Val d'Or)		
ALSM TB	ALS Minerals - Thunder Bay		
ALSM VAN	ALS Minerals - Vancouver		
BV ONTARIO	Bureau Veritas Ontario		
ELEONORE	Goldcorp - Eleonore		
HEMLO MINE	Williams Operating Corporation		
MCEWEN BLACK FOX	McEwen Mining Black Fox		
MSALABS LANGLEY	MSALABS Langley		
MUSSELWHITE	Musselwhite Mine Laboratory		
NEW BRIT MILL	Flin Flon Mine Laboratory		
NEWCREST RED CHRIS	Newmont Red Chris JV		
NEWMONT BRUCEJACK	Newmont BruceJack Assay Lab		
PORCUPINE	Newmont - Porcupine		
SGS COCHRANE	SGS Cochrane		
SGS LAKEFIELD	SGS Lakefield (Ontario)		
SGS VANCOUVER	SGS Vancouver		
YOUNG-DAVIDSON	Alamos Gold - Young-Davidson		
Chile			
ALSM SANTIAGO	ALS Minerals - Santiago		
LA COIPA	Kinross La Coipa		
Cote d'Ivoire			
BV COTE	Bureau Veritas Mineral Laboratories Cote d'Ivoire		
SGS AGBAOU CI	SGS Côte d'Ivoire S.A. Agbaou		
SGS SEQUELA	SGS Seguela		
SGS SISSINGUE	SGS Sissingué		
SGS TONGON CI	SGS Mineral Services - Tongon		
Dominican Republic			
PUEBLO VIEJO	Pueblo Viejo Laboratorio		
England			
WHEAL JANE ENGLAND	Wheal Jane Laboratory		
Eritrea			
BISHA MINING	Bisha Mining Share Company		
Ethiopia			
MIDROC LEGADEMBI	Midroc Gold Mine PLC - Legadembi		
Fiji			
LIONONE FIJI	Lion One Limited		
Finland			
CRS KEMPELE	CRS Laboratories - Kempele		
CRS OUTOKUMPU	CRS Laboratories - Outokumpu		
LABTIUM FIN	Eurofins Labtium Oy		
Ghana			
ALSM GHANA	ALS Minerals - Ghana		
ITS GHANA	Intertek Minerals Ltd (Ghana)		
SGS EHS OBUASI	AGA Envi Site Obuasi Envi Laboratory		
SGS ITS AKYEM	SGS ITS AKYEM		
SGS TARKWA	SGS Laboratories (Tarkwa)		
Guyana			
MSALABS GUYANA	MSA Labs Guyana Inc.		
India			
REPERLDAN INDIA	Resustainability Reldan Refining Pvt Ltd		
SHIVA INDIA	Shiva Analyticals (India) Ltd		
Indonesia			
GEOSERVICES IND	PT Geoservices Ltd		
IMR JAKARTA	PT.Indo Mineral Research		
ITS GOSOWONG	Gosowong Gold Project Lab		
ITS INDO	Intertek Testing Services, Jakarta		
ITS MARTABE	Intertek Services - Martabe		
ITS SJR	Intertek Testing Services, Sumbawa Juta Raya		
ITS TOKA TINDUNG	Intertek Utama Services Manado		
PT SUCOFINDO TIMIKA	Sucofindo Timika Laboratory		
SGS BAKAN	SGS Bakan		
SUKSESINDO	PT Bumi Suksesindo		
WETAR	PT Geoservices Ltd - Wetar		
Iran			
ZARAZMA TEHRAN	Zarazma Minerals Studies Company		
Ireland			
ALSM IRELAND	Omac Laboratories - Ireland		
Kazakhstan			
ALSM AKBAKAY	ALS Minerals - Akbakay		
ALSM KARAGANDA	ALS Minerals - Karaganda		
ALSM PUSTYNOE	ALS Minerals - Pustynnoe		
Kyrgyz Republic			
SAEL KYRGYZSTAN	Stewart Assay and Environmental Laboratories LLC		
Lao PDR			
ALSM LAOS	ALS Minerals Vientiane (Laos)		
PHU BIA BH	Ban Houayxai Laboratory		
PHU BIA LAOS	Phu Bia Mining Limited		
SEPON LAOS	Lane Xang Minerals		
Mali			
BV BAMAKO	Bureau Veritas Mineral Mali		
PROSLABS	PROSLABS		
SADIOLA MALI	Sadiola Mine Site Laboratory		
SGS BAMAKO	SGS Minerals Services (Bamako)		
SGS LOULO	SGS Loulo		
SGS NAMPALA	SGS Nampala		
SGS SYAMA	SGS Minerals Syama Laboratory		
Mauritania			
ANARFAM	Office Mauritanien des Recherches Géologiques		
Mexico			
ACTLABS MEXICO	Actlabs Mexico SA de CV		
BV MINERALS MEX	Inspectorate de México S.A. de C.V.		
LA YAQUI GRANDE	Alamos Gold - La Yaqui		
MCEWEN MEXICO	McEwen Mining Mexico		
MULATOS SONORA	Alamos Gold - Mulatos Mine		
PENASQUITO	Newmont - Penasquito		
SGM CHIHUAHUA	Centro Experimental Chihuahua		
Mongolia			
ALSM MONGOLIA	ALS Group LLC		
Morocco			
LABOMINE	Laboratoire LABOMINE SARL		
Namibia			
SINOMINE TSUMEB	Sinomine Tsumeb Smelter		
New Zealand			
SGS NZ MACRAES	SGS New Zealand, Macraes Laboratory		
SGS NZ WAIHI	SGS New Zealand, Minerals Laboratory		
Papua New Guinea			
INTERTEK HV	Intertek Hidden Valley		
ITS K92 PNG	ITS (PNG) Limited K92 Laboratory		
ITS MOROBE	ITS (PNG) Limited		
OK TEDI	Ok Tedi		
Peru			
ACT SKYLINE PERU	Actlabs Skyline Peru SAC		
ALSM LIMA	ALS Peru SA		
CERTIMIN	Certimin S.A.		
CERTIMIN CERRO LINDO	Certimin S.A. - Cerro Lindo		
CERTIMIN LA ARENA	Certimin S.A. - La Arena		
ENSAYOS PERU	Ensayos Tecnicos Labmin SRL		
NEW PERU	Minera Yanacocha SRL - Newmont Lab (Peru)		
SGS LIMA	SGS del Peru SAC		
Philippines			
ITS PHILIPPINES	Intertek Testing Services Philippines		
Romania			
ALSM ROMANIA	ALS Romania		
Saudi Arabia			
ALAMRI JEDDAH	Al Amri Laboratory		
ALSM JEDDAH	ALS Minerals - Arabia		
BV JEDDAH	Bureau Veritas - Jeddah		
MBCC JABAL SAYID	MBCC Jabal Sayid Mine		
Senegal			
SGS MAKO	SGS Mako		
South Africa			
ALSM JOBURG	ALS Minerals - Johannesburg		
RAPPA RESEARCH	Rappa Research Laboratory		
SCI SER	Scientific Services Pty Ltd		
SGS BARBERTON	Performance Laboratories Barberton		
SGS RANDFONTEIN	Performance Laboratories (PLR)		
SGS VAAL RIVER	SGS Vaal River		
SIBANYE DFT	Sibanyegold Analytical Laboratory Driefontein		
Suriname			
FILAB SURINAME	Filab Suriname		
NEW MERIAN	Newmont - Merian Assay Lab		
Tanzania			
GEITA TANZ	Geita Gold Mine Laboratory		
GEO SUR TANZANIA	Geological Survey of Tanzania (GST)		
MSALABS BULYANHULU	MSALABS Mwanza		
MSALABS SINGIDA	MSALABS Singida		
NESCH MINTECH TANZ	Nesch Mintec Tanzania Ltd		
NORTH MARA	North Mara Minesite Laboratory		
Thailand			
AKARA THAI	Akara Resources		
Turkey			
ACME TURKEY	Acme Analytical Laboratories Ltd - Ankara Turkey		
ALSM TURKEY	ALS Minerals - Turkey		
ANAGOLD TURK	Anagold Madencilik San Ve Tic.A.S.		
ARGETEST TURKEY	ARGETEST		
CAYELI BAKIR TURKEY	Cayeli Bakir Isletmeleri A.S.		
DEMIR EXPORT ANKARA	Demir Export Laboratory		
IAR TURKEY	Istanbul Gold Refinery Inc.		
KOZAGOLD KAYMAZ	Koza Gold Mine Kaymaz Laboratory		
KOZAGOLD TURKEY	Koza Gold Mine Laboratory		
POLIMETAL TURKEY	Polimetal Madencilik		
SGS TURKEY	SGS Turkey		
TUPRAG TURK	Tuprag Kisiadag Gold Mine		
United States of America			
AALLABS	American Assay Laboratories		
ACZ COLORADO	ACZ Laboratories Inc		
ALSE TUCSON	ALS Houston		
ALSM RENO	ALS Minerals - Reno		
BALD MOUNT	Bald Mountain Mine Assay Lab		
BV NEVADA	Inspectorate America Corporation - Sparks		
CORTEZ MINE	Cortez JV Mine Assay Lab		
ELI-B MONTANA	Energy Laboratories, Inc. – Billings, MT USA		
ELI-H MONTANA	Energy Laboratories, Inc. – Helena, MT USA		
FLORIN RENO	Florin Analytical Services		
FORT KNOX	Fort Knox Assay Lab		
FORTE COLORADO	Forte Analytical		
GOLDSTRIKE	Barrick Analytical Laboratory		
MCCLELLAND NEV	McClelland Laboratories, Inc.		
NEW CCV	Newmont - Cripple Creek and Victor		
NGM GQ	Nevada Gold Mines - Carlin Assay Lab		
NGM TR LAB	Newmont - Twin Creek Mine		
PACE ANALYTICAL WY	Inter-Mountain Laboratories		
ROUND MOUNT MINE	Round Mountain Gold Assay Lab		
RTKC UTAH	Rio Tinto Kennecott Copper		
SGS KERSHAW	SGS Kershaw Mineral Lab		
SKYLINE ARIZONA	Skyline Assayers & Laboratories - Arizona		
SVL ANALYTICAL	SVL Analytical, Inc.		
Zambia			
AHK KITWE	Alfred H Knight Zambia Ltd		
ALSM KANSANSHI	ALS Minerals - Kansanshi		
KANSANSHI ZAMBIA	Kansanshi Mining PLC		
LUMWANA MINE	Lumwana Mine Site Lab		
MISENGE ZAMBIA	Misenge Environmental & Technical Services Limited		
SGS KALULUSHI	SGS Inspection Services Zambia		
Zimbabwe			
ANTECH	Antech Laboratories		
FREDA ZIM	Freda Rebecca Gold Mine		
PERF ZIMBABWE	Performance Laboratories Zimbabwe		
Commercial Laboratory		Laboratory that reported some results after the database was closed.	
Minesite Laboratory			
Government Laboratory			

REPORT ON LABORATORY SURVEY – October 2024

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 213 laboratories was conducted during October 2024. The results of this survey are a measure of the ability of a laboratory to accurately analyse a pre-prepared pulp.

The ability of a laboratory to crush, split and prepare the sample without contamination is not measured by this survey. Knowledge of sampling machinery and the ability to design efficient flow systems with in-built homogeneity checks is required in order to develop confidence in the sample preparation.

The samples submitted to the laboratories consisted of:

- 10 gold samples
- 5 low level gold samples
- 6 gold and silver on carbon samples
- 10 geochemical base metal samples
- 6 ore-grade base metal samples
- 10 sulphur and carbon samples

Companies operating more than one laboratory have received extra filler samples, which are not used in the calculations. The Geostats numbering system makes it extremely difficult for any comparison of results from one laboratory to the next. This provides a level playing field for all laboratories, whether they are sole operators or members of a large laboratory group.

We use a double entry system to build an accurate database. Two individuals enter all the data and when complete these two files are cross-checked and the source data is consulted to rectify any errors. The mean values used for calculations in this study are checked visually by preparing histograms. Outliers are removed and the remaining population distributions are tested for normality. All outliers are checked back to the original assay report for a third and final time.

GOLD SAMPLES

Three lots of gold samples were submitted to the laboratories, one lot for fire assay, one for aqua regia digest (or similar) and one for low-level gold. BV Ontario performed Neutron Activation Analysis on all samples, reporting a gold + 33 element analysis which has been included at the end of this report. BV Ontario can be contacted through Anuradha Ramesh at anuradha.ramesh@bureauveritas.com

GOLD AND SILVER ON CARBON SAMPLES

Six gold and silver on carbon samples were included in this survey, both loaded and barren. The method of analysis for these samples was left up to the individual laboratories.

GEOCHEM BASE METAL SAMPLES

The base metal samples were analysed for copper, lead, zinc, nickel, arsenic, silver and cobalt. The method of analysis for base metal samples was left to the discretion of the laboratory manager. However, the report groups them into Total (typically 4 acid digest or fusion) and Partial (all others, mainly aqua regia) methods. Maxxam Ontario performed Neutron Activation Analysis and these have been included in the Total digest group. Methods are listed in the results page for the respective analyte.

ORE GRADE BASE METAL SAMPLES

Six ore-grade and/or concentrate samples are included in the survey. These are assayed primarily for copper, lead, zinc, nickel, silver and sulphur. Other elements are reported but not in sufficient numbers for inclusion in the report. These high-grade materials are analysed at the chemist's discretion but almost always using ore-grade techniques. Some use classical analyses while others use XRF or other methods. However, some of these products have, for example, high lead but low copper and the method for copper analysis may be inappropriate for low levels. Owing to this characteristic, only higher grade analyses are plotted in the related charts.

SULPHUR SAMPLES

Ten samples for sulphur and carbon analysis were prepared for the survey. These ten new samples are a good mix of values with sulphur values up to 4.0% and carbon values up to 2.0%.

All of the certified reference materials used in this survey are available for purchase.

RESULTS

The results of the analyses are presented in three forms:

1. A table showing values as reported from the laboratories. These are presented in columns according to their respective sample identifiers, with each result's standardised Z value also displayed. Outliers are highlighted and assigned a Z value of 3.00 or -3.00. General statistics are listed at the top of each table.
2. Bar chart for each element showing the sum of absolute standardised values divided by the count of absolute standardised values.
3. Bar chart for the mean of standardised values.

EXAMINATION OF RESULTS - METHODOLOGY

1. Double entry of all data and validation by cross-checking. Confirm any anomalous values.
2. Produce basic statistics on results, including:
 - a. count
 - b. mean
 - c. median
 - d. standard deviation
 - e. minimum
 - f. maximum
 - g. error (95% Confidence Interval)
 - h. percentage error of mean (error as a percentage of the calculated mean).
3. Produce summary statistics and assay sheet.
4. Run outlier macro to find obvious outlier values.
5. Generate 'Z' intervals for remaining data (from calculated mean).
6. Check that median and mean are similar to verify a normal distribution.
7. Standardise remaining values i.e. subtract the mean and divide by the standard deviation.

8. Add results from each laboratory in 'standardised values' calculations (positive and negative) and divide by count.
9. Produce 'Mean of Standardised Values' Bar Charts.
10. Add absolute values from each laboratory in 'standardised values' calculations.
11. Divide result by count of results to calculate average absolute standard value for laboratory performance on each element.
12. Produce 'Mean of Absolute Standardised Values' Bar Charts.

CHARTS

The 'Mean of Standardised Values' charts (blue in reports) indicate any bias shown by laboratories on a particular element, but do not show any general error which might be plus and minus the mean. The 'Mean of Absolute Standardised Values' charts (red in reports) indicate the general error but no bias.

INTERPRETATION OF RESULTS

SUMMARY STATISTICS AND ASSAY TABLES

These tables are self-explanatory. The row titled 'error' refers to the margin of error expected at 95% confidence. That is, the standard normal probability or 'Z' statistic representing 95% (1.96) is multiplied by the standard deviation and the result is divided by the square root of the population. We can be 95% confident that the true mean lies between mean minus error and mean plus error. The row titled '% error in mean' is simply this margin of error expressed as a percentage of the calculated mean. Outliers are highlighted and not used for calculations at the top of the tables.

STANDARDISED VALUES

These numbers are generated using the following formula. Reported value minus the mean, result of this divided by the standard deviation. This creates a new distribution with mean '0' and standard deviation '1'. Positive and negative numbers result from this calculation depending on whether the reported value is above or below the mean. Laboratories reporting outliers are manually assigned 3.00 or -3.00 as these results have been removed from automatic calculation. The higher the absolute number reported, the further the reported assay is from the calculated mean.

MEAN OF ABSOLUTE STANDARDISED VALUES (RED CHARTS)

The bar representing each laboratory is the mean of the sum of the absolute standardised values reported on all assays of the element in question. That is, the absolute sum of the rows in the Standardised Values Table divided by the number of assays. These charts give a visual representation to the general error shown by the particular laboratories. These charts do not show bias.

MEAN OF STANDARDISED VALUES (BLUE CHARTS)

These charts show the mean of standardised values with negative values included. A direction of error or bias can be interpreted from laboratories showing high values, negative or positive.

BRIEFLY

General error is indicated in absolute column charts (red charts).

Bias is indicated in negative/positive column charts (blue charts).

The column charts show indications of error or direction of error - check the real data in the tables before coming to any decision as to the significance of this error. Also pay attention to the grade of the standard materials with regard to the laboratory level of detection. Some laboratories may report outliers due to the limitations of their methodology.

LEGEND FOR METHODS & READINGS

METHODS

READINGS

1A	1 Acid Digest	AAS	Atomic Absorption Spectroscopy
2A	2 Acid Digest	DIBK	DIBK Extraction
3A	3 Acid Digest	ES	ICP - Emission Spectroscopy
4A	4 Acid Digest	GRAV	Gravimetric
AD	Acid Digest	ICP	Inductively Coupled Plasma - Unspecified
AR	Aqua Regia	IR	Infrared
CSA	Carbon and Sulphur Analyser	MS	ICP - Mass Spectroscopy
FA	Fire Assay	XRF	X-Ray Fluorescence
FUS	Fusion		
GF	Graphite Furnace		
IH	In House Method		
MICR	Microwave		
NAA	Neutron Activation Analysis		
PA	Photon-Assay		
PP	Pressed Powder		
PR	Pre-Roast		
TITR	Titration		

CONTENTS

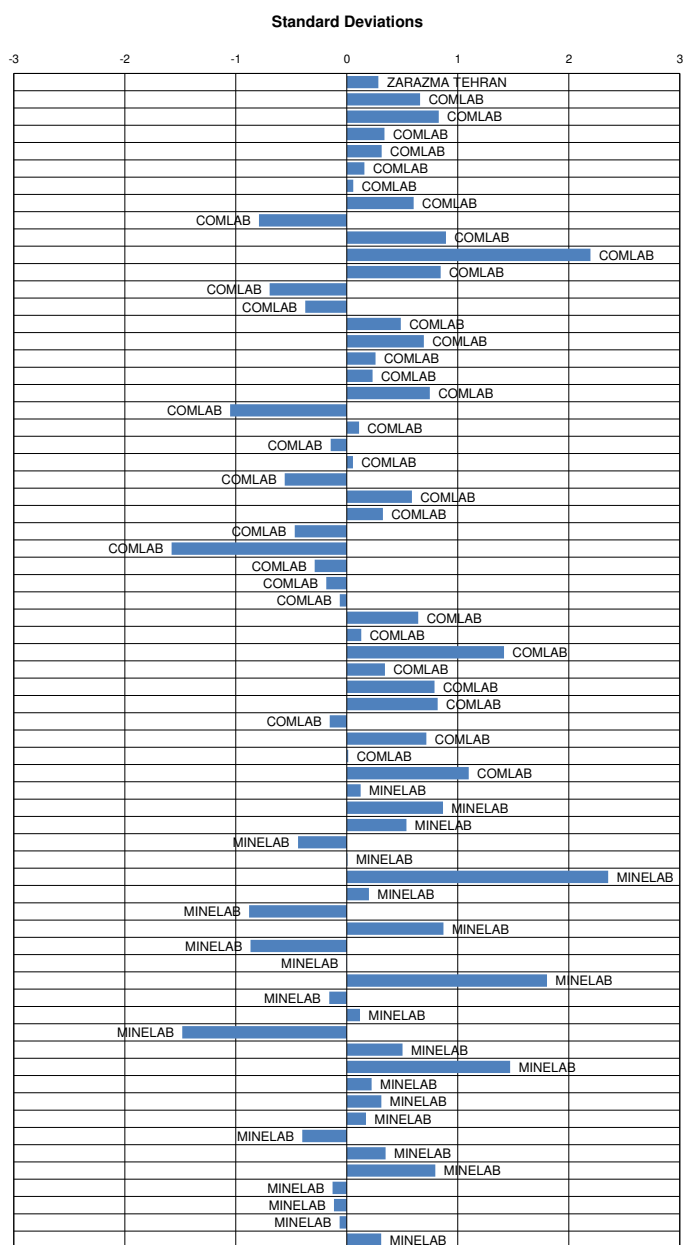
RESULTS OF ANALYSES PRESENTED AS TABLES AND PLOTS

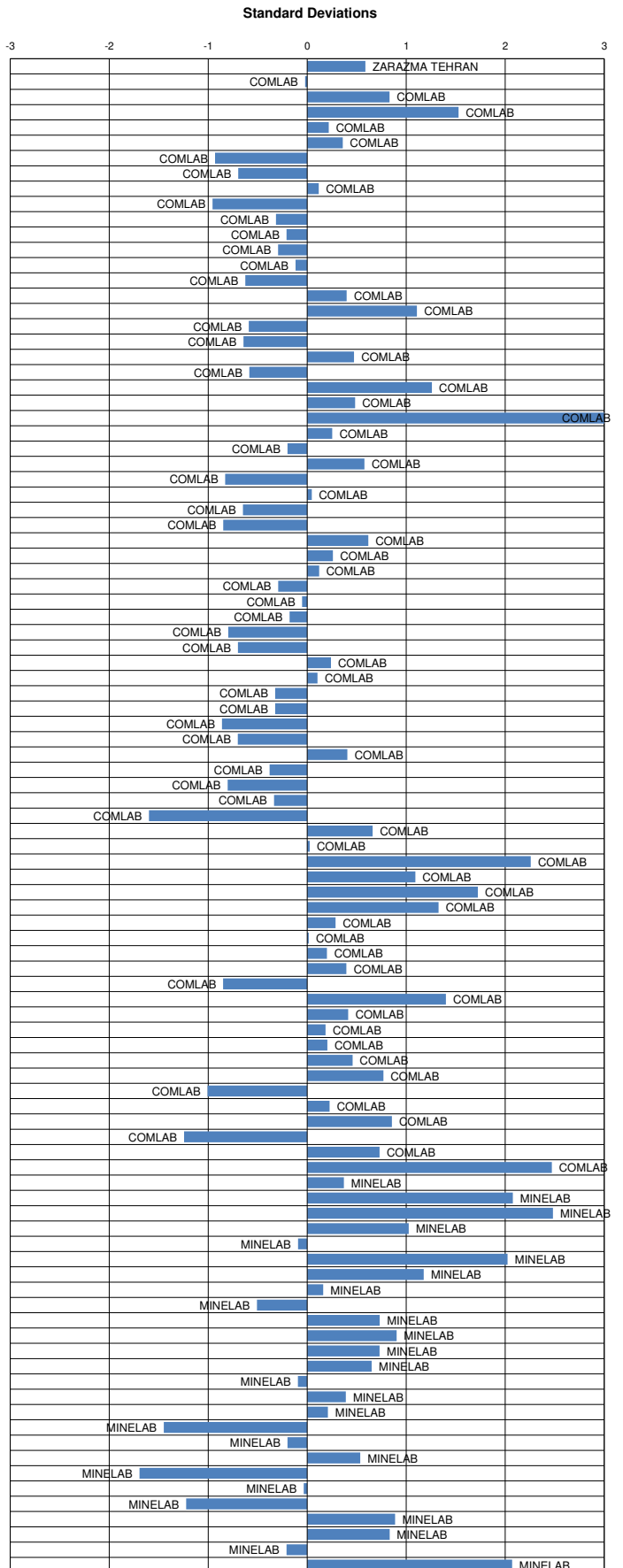
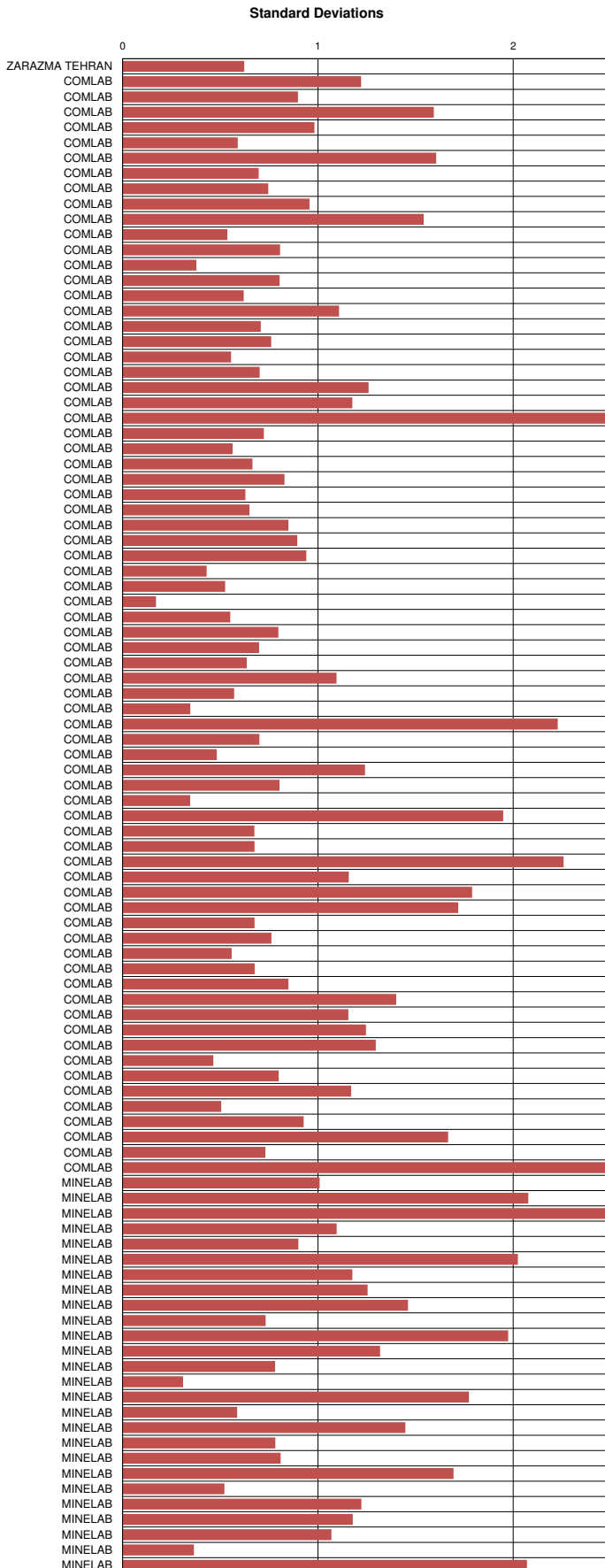
GOLD SAMPLES	Pages
Fire Assay Gold	1 & 2
Aqua Regia Digest Gold	3 & 4
Low Grade Gold	5 & 6
 Au & Ag IN CARBON SAMPLES	
Gold On Carbon	7 & 8
Silver On Carbon	9 & 10
 BASE METAL SAMPLES	
Silver (Total Digest)	11 & 12
Silver (Partial Digest)	13 & 14
Copper (Total Digest)	15 & 16
Copper (Partial Digest)	17 & 18
Lead (Total Digest)	19 & 20
Lead (Partial Digest)	21 & 22
Zinc (Total Digest)	23 & 24
Zinc (Partial Digest)	25 & 26
Nickel (Total Digest)	27 & 28
Nickel (Partial Digest)	29 & 30
Arsenic (Total Digest)	31 & 32
Arsenic (Partial Digest)	33 & 34
Cobalt (Total Digest)	35 & 36
Cobalt (Partial Digest)	37 & 38
 ORE GRADE BASE METAL SAMPLES	
Copper	39 & 40
Lead	41 & 42
Zinc	43 & 44
Nickel	45 & 46
Silver	47 & 48
Sulphur	49 & 50
 SULPHUR SAMPLES	
Sulphur	51 & 52
Carbon	53 & 54
 OTHER	
BV Ontario NAA Results	55
Laboratory Summary Report	56

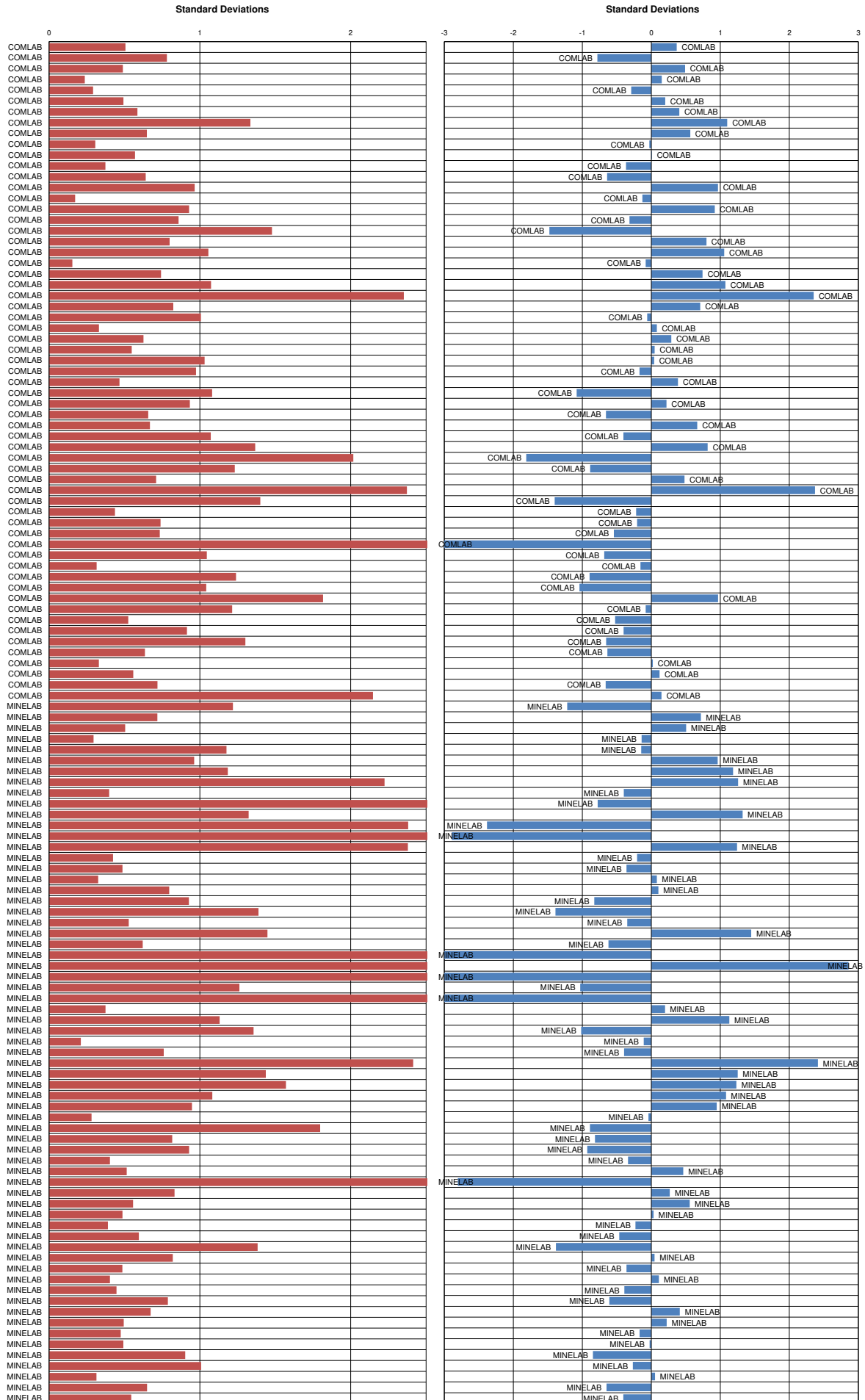
Standard Reference	G24-1	G24-2	G24-3	G24-4	G24-5	G24-6	G24-7	G24-8	G24-9	G24-10
MEAN (ppm)	0.54	0.20	0.14	0.96	1.58	2.94	2.81	1.13	5.61	25.49
STDEV (ppm)	0.04	0.02	0.01	0.10	0.10	0.13	0.22	0.11	0.25	0.86
COV (%)	0.01	0.00	0.00	0.02	0.02	0.02	0.04	0.02	0.04	0.13
95% CI	1.26%	1.40%	1.01%	1.05%	0.68%	0.68%	0.67%	0.67%	0.52%	0.52%
MRP (ppm)	0.42	0.14	0.11	0.73	1.29	2.61	2.20	0.85	4.97	23.00
MEDIAN (ppm)	0.54	0.19	0.14	0.96	1.58	2.94	2.84	1.15	5.59	25.50
MAX (ppm)	0.65	0.27	0.15	1.82	1.82	3.31	3.32	1.40	6.32	27.40
Q95 (ppm)	0.66	0.29	0.13	1.17	1.14	3.14	3.28	1.44	6.26	26.96
Q99	169	169	147	166	147	167	166	132	170	140

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. The shaded materials were difficult to assay, and are not included in the laboratory error calculation.







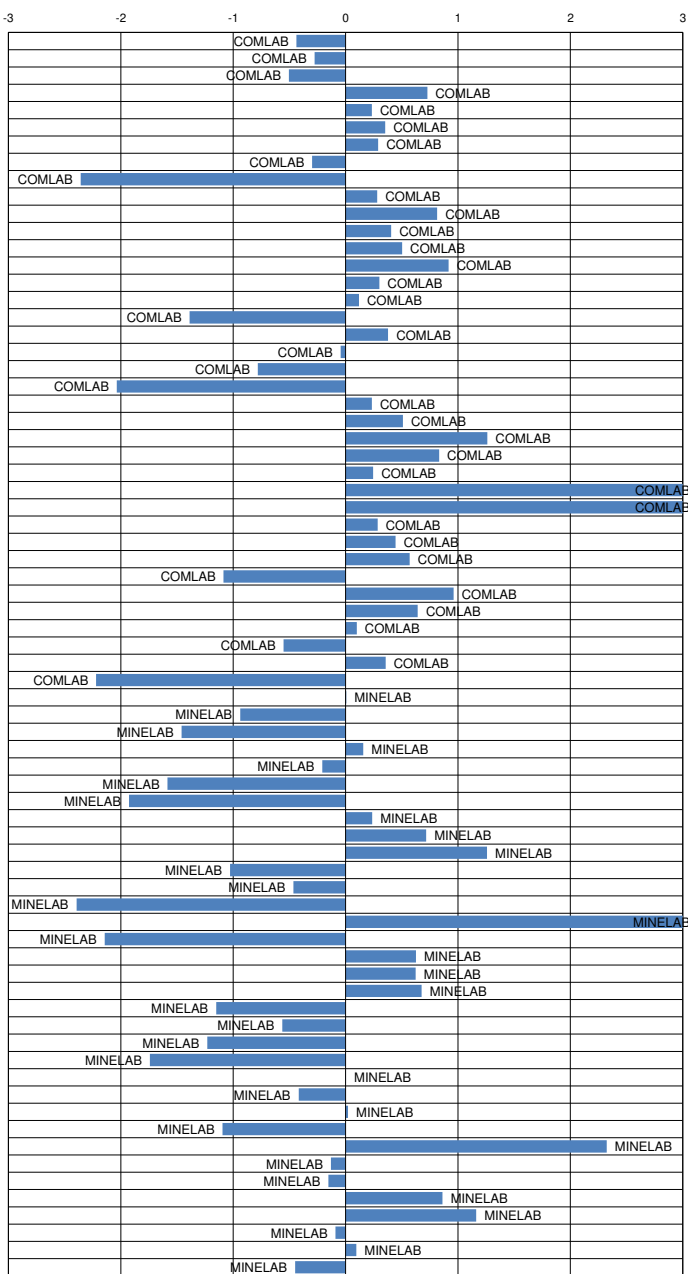


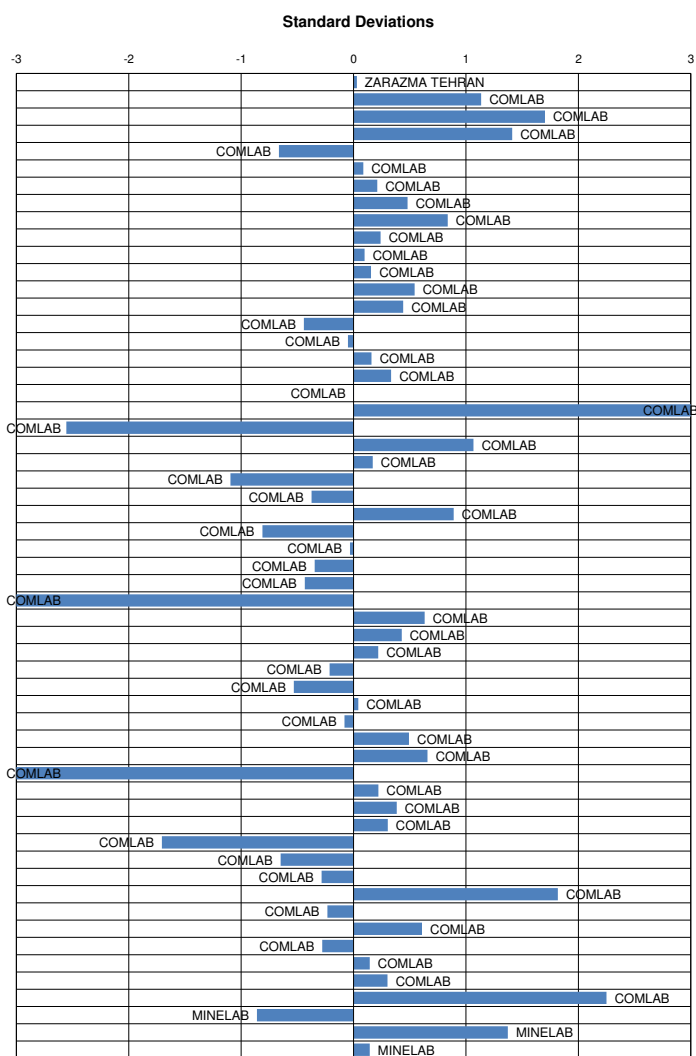
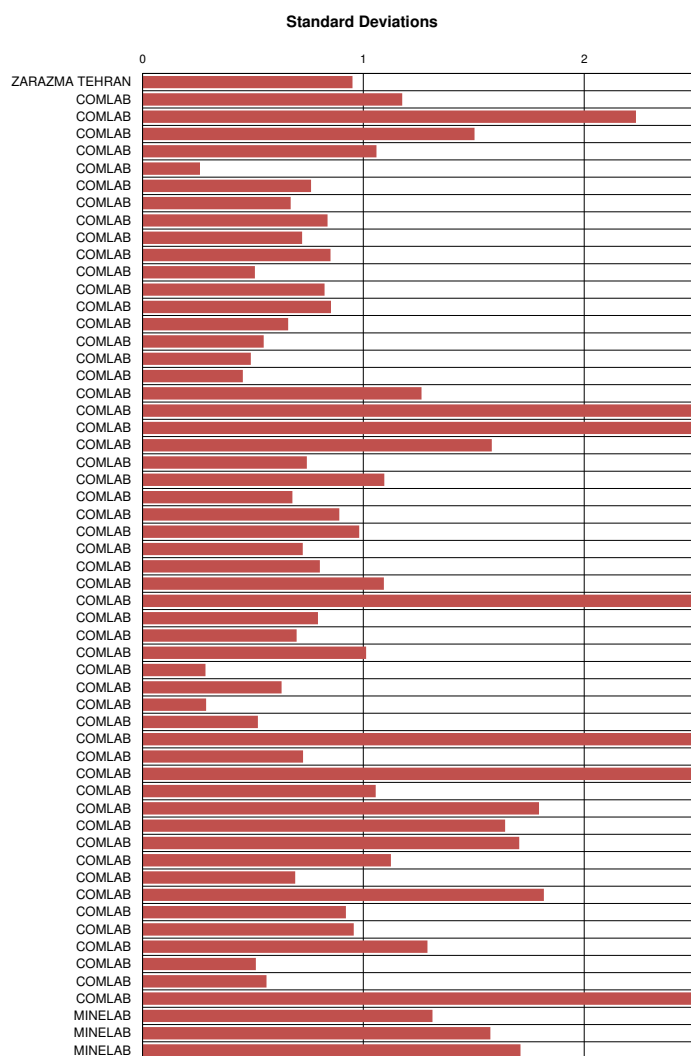
Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

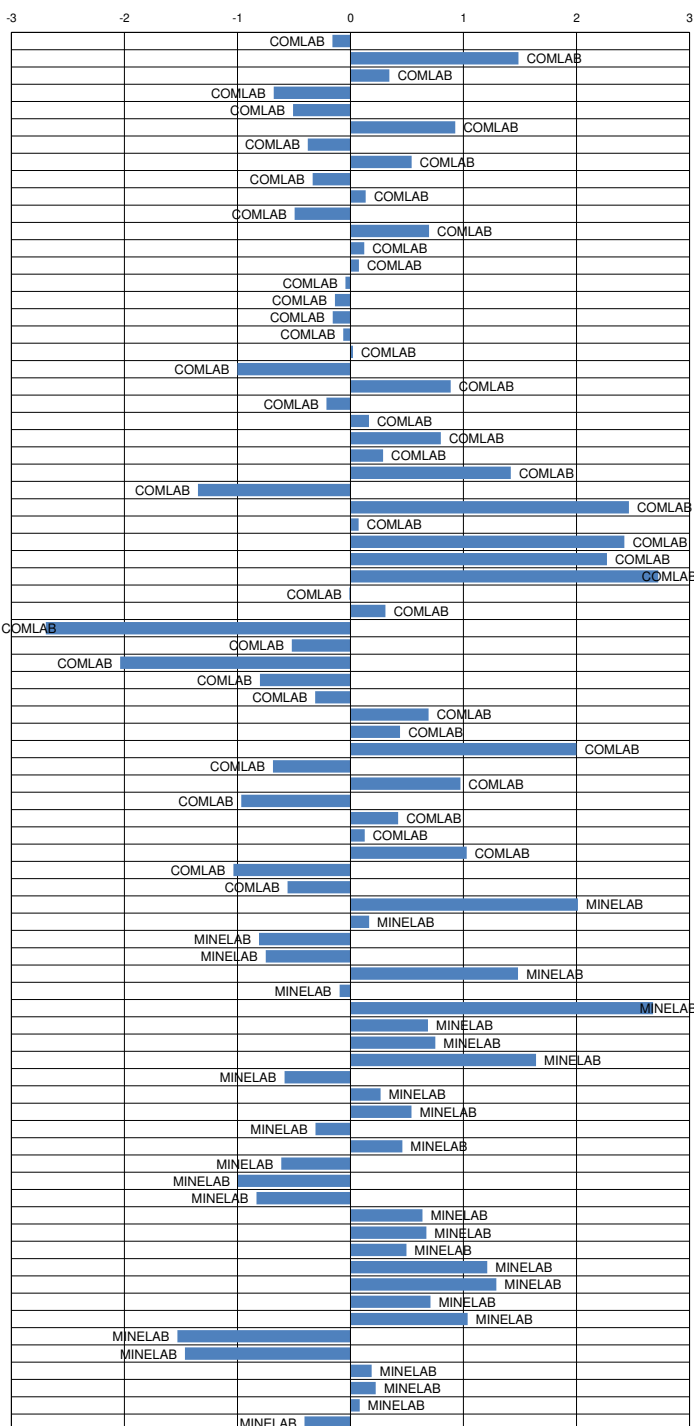
Standard Reference	GBC924-1	GBC924-2	GBC924-3	GLC924-1	GLC924-2	GLC924-3
MEAN (ppm)	235	149	212	869	1595	3097
STDEV (ppm)	38	17	52	72	91	167
95% CI (ppm)	9	4	12	18	24	47
95% CI (%)	3.92%	3.02%	5.88%	2.11%	1.54%	1.51%
MIN (ppm)	141	112	80	690	1430	2718
MEDIAN (ppm)	236	150	220	877	1589	3110
MAX (ppm)	334	187	337	1062	1810	3410
IGR (ppm)	31	19	58	87	102	199
COUNT	67	55	67	60	54	50

Standard Reference	GBC924-1		GBC924-2		GBC924-3		GLC924-1		GLC924-2		GLC924-3		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	236	0.02	151	0.14	216	0.07	883	0.20	1590	-0.05	2390	-3.00	FA	GRAV
COMLAB	225	-0.28	146	-0.18	222	0.18	814	-0.76	1606	0.13	2975	-0.73	4A	AAS
COMLAB	224	-0.30	151	0.14	207	-0.10	848	-0.29	1520	-0.82	2820	-1.66	FA	GRAV
COMLAB	268	0.85	174	1.50	272	1.15	856	-0.18	1647	0.58	3173	0.45	FA	GRAV
COMLAB	235	-0.02	158	0.54	234	0.41	891	0.31	1585	-0.10	3143	0.27	FA	GRAV
COMLAB	253	0.46	149	0.02	230	0.34	878	0.13	1530	-0.71	3410	1.87	PR,AR	AAS
COMLAB	238	0.07	158	0.54	233	0.40	875	0.09	1613	0.21	3170	0.43	FA	GRAV
COMLAB	219	-0.43	140	-0.52	231	0.36	851	-0.25	1510	-0.93	3093	-0.03		
COMLAB	186	-1.31	97	-3.00	93	-2.31	759	-1.52	807	-3.00	820	-3.00	AR	AAS
COMLAB	239	0.09	137	-0.70	304	1.77	882	0.19	1653	0.64	3045	-0.31	FA	GRAV
COMLAB	298	1.64	214	3.00	241	0.55	890	0.30	1553	-0.46	3072	-0.15	FA	GRAV
COMLAB	242	0.17	156	0.43	258	0.88	904	0.49	1569	-0.28	3219	0.73	FA	GRAV
COMLAB	233	-0.06	141	-0.46	247	0.67	896	0.38	1707	1.24	3306	1.25	FA	GRAV
COMLAB	242	0.17	154	0.32	252	0.77	901	0.45	1780	2.04	3390	1.75	PR,AR	ICP
COMLAB	165	-1.84	226	3.00	263	0.98	943	1.04	1631	0.40	2801	-1.77	FA	GRAV
COMLAB	206	-0.77	123	-1.53	862	3.00	840	-0.40	1620	0.28	3120	0.14	FA	AAS
COMLAB	252	0.44	140	-0.52	225	0.25	690	-2.49	770	-3.00	813	-3.00	FA	ES
COMLAB	237	0.04	160	0.67	178	-0.66	907	0.53	1681	0.95	3220	0.73	AR	
COMLAB	227	-0.22	147	-0.10	224	0.23	875	0.09	1575	-0.21	3090	-0.04	PR,AA	ES
COMLAB	223	-0.32	145	-0.22	172	-0.78	866	-0.04	1565	0.32	1872	-3.00	AR	AAS
COMLAB	182	-1.41	120	-1.70	207	-0.10	188	-3.00	214	-3.00	196	-3.00	AR	ICP
COMLAB	238	0.07	152	0.20	236	0.46	893	0.34	1564	-0.34	3211	0.68	FA	GRAV
COMLAB	250	0.38	170	1.27	270	1.12	870	0.02	1640	0.50	3060	-0.22	FA	GRAV
COMLAB	316	2.11	206	3.00	256	0.84	922	0.74	1638	0.48	3163	0.39	PR,AR	ES
COMLAB	268	0.85	<50	-3.00	337	2.41	1009	1.95	1810	2.37	3165	0.41	FA	GRAV
COMLAB	220	-0.40	146	-0.16	211	-0.03	915	0.65	1633	0.42	3263	0.99	AR	AAS
COMLAB	1151	3.00	687	3.00	974	3.00	3106	3.00	2010	3.00	3672	3.00	AR	AAS
COMLAB	480	3.00	298	3.00	852	3.00	1774	3.00	3165	3.00	6404	3.00	FA	GRAV
COMLAB	254	0.49	154	0.32	215	0.05	>500	ald	>500	ald	>500	ald	AR	AAS
COMLAB	246	0.28	158	0.55	241	0.55	904	0.49	1652	0.63	3124	0.16	FA	AAS
COMLAB	280	1.17	160	0.67	159	-1.03	800	-0.96	2000	3.00	>2000	ald	PR,AR	AAS
COMLAB	243	0.20	174	1.50	188	-0.47	743	-1.75	1300	-3.00	2590	-3.00	PR,AR	AAS
COMLAB	242	0.17	241	3.00	225	0.25	931	0.87	1642	0.52	>2000	ald	AR	AAS
COMLAB	252	0.43	182	1.98	259	0.91	984	1.60	1517	-0.86	3061	-0.21	PR,AR	AAS
COMLAB	249	0.36	154	0.32	213	0.01	848	-0.29	1586	-0.09	3146	0.29	PR,AR	AAS
COMLAB	242	0.17	158	0.55	220	0.15	791	-1.08	1430	-1.81	2880	-1.30		
COMLAB	245	0.25	162	0.79	218	0.11	888	0.27	1577	-0.19	3249	0.91	PR,AD	AAS
COMLAB	141	-2.46	59	-3.00	31	-3.00	630	-3.00	1447	-1.63	3059	-0.23	AR	AAS
MINELAB	233	-0.06	150	0.08	131	-1.57	882	0.19	1615	0.23	3295	1.18	AD	AAS
MINELAB	146	-2.34	79	-3.00	90	-2.36	733	-1.89	1949	3.00	3260	0.97	FA	GRAV
MINELAB	205	-0.78	137	-0.68	218	0.12	767	-1.41	1167	-3.00	2198	-3.00	FA	GRAV
MINELAB	257	0.57	187	2.28	277	1.25	794	-1.04	1499	-1.05	2920	-1.06		XRF
MINELAB	225	-0.27	147	-0.10	224	0.23	857	-0.16	1542	-0.58	3038	-0.35	FA	GRAV
MINELAB	192	-1.14	120	-1.71	123	-1.73	783	-1.19	1452	-1.57	2733	-2.18	PR,AR	AAS
MINELAB	79	-3.00	28	-3.00	80	-2.56	1575	3.00	756	-3.00	650	-3.00	PR	AAS
MINELAB	223	-0.32	154	0.34	240	0.54	1007	1.92	1771	1.94	2082	-3.00	FA	GRAV
MINELAB	800	3.00	260	3.00	240	0.54	750	-1.65	1540	-0.60	3100	0.02		AAS
MINELAB	298	1.64	474	3.00	267	1.06	1145	3.00	1690	1.05	2730	-2.20		AAS
MINELAB	220	-0.40	135	-0.81	154	-1.13	783	-1.19	1464	-1.43	2897	-1.20	PR,AR	AAS
MINELAB	220	-0.40	130	-1.11	140	-1.40	909	0.56	1606	0.13	3003	-0.56	PR,AR	AAS
MINELAB	160	-1.97	112	-2.18	150	-1.20	508	-3.00	1103	-3.00	2078	-3.00	FA	GRAV
MINELAB	759	3.00	439	3.00	930	3.00	2418	3.00	3544	3.00	5529	3.00	FA	GRAV
MINELAB	190	-1.18	122	-1.62	157	-1.07	128	-3.00	503	-3.00	1428	-3.00	FA	GRAV
MINELAB	332	2.53	137	-0.70	289	1.48	875	0.09	1522	-0.80	3289	1.15	AR	AAS
MINELAB	259	0.63	182	1.96	190	-0.44	911	0.58	1587	-0.08	3279	1.09	AR	AAS
MINELAB	232	-0.10	157	0.49	230	0.34	916	0.66	1757	1.79	3243	0.87	AR	AAS
MINELAB	176	-1.55	117	-1.88	202	-0.20	798	-0.98	1494	-1.10	2900	-1.18	FA	GRAV
MINELAB	215	-0.53	135	-0.81	219	0.13	822	-0.65	1461	-1.47	3090	-0.04	FA	GRAV
MINELAB	236	0.02	149	0.02	107	-2.04	913	0.62	1196	-3.00	1303	-3.00	PR,AR	AAS
MINELAB	228	-0.19	145	-0.22	159	-1.03	456	-3.00	706	-3.00	879	-3.00	AD	AAS
MINELAB	237	0.05	157	0.50	245	0.63	859	-0.14	1541	-0.59	3026	-0.43	FA	GRAV
MINELAB	218	-0.45	135	-0.81	226	0.26	839	-0.41	1540	-0.60	3016	-0.49	FA	GRAV
MINELAB	224	-0.30	147	-0.10	175	-0.72	907	0.53	1611	0.18	3187	0.54	PR,AR	ES
MINELAB	190	-1.19	116	-1.94	217	0.09	782	-1.21	1431	-1.80	3010	-0.52	FA	GRAV
MINELAB	334	2.58	207	3.00	195	-0.33	1062	2.69	1898	3.00	3756	3.00	PR,AR	AAS
MINELAB	235	-0.01	156	0.40	157	-1.06	882	0.19	1774	1.98	2718	-2.27	PR,AR	
MINELAB	230	-0.14	147	-0.10	167	-0.88	852	-0.23	1599	0.05	3161	0.38		
MINELAB	239	0.09	166	1.03	218	0.11	937	0.95	1728	1.47	3352	1.52	AR	AAS
MINELAB	301	1.72	303	3.00	206	-0.12	991	1.70	1642	0.52	3122	0.15	PR,AR	AAS
MINELAB	241	0.15	152	0.20	243	0.59	817	-0.72	1544	-0.56	3064	-0.20	PP	XRF
MINELAB	260	0.64	168	1.13	234	0.42	946	1.07	1622	0.30	1360	-3.00	PR,AR	AAS
MINELAB	298	1.64	202	3.00	298	1.66	481	-3.00	681	-3.00	807	-3.00	AR	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. GBC324-2 is not suitable for silver analysis.





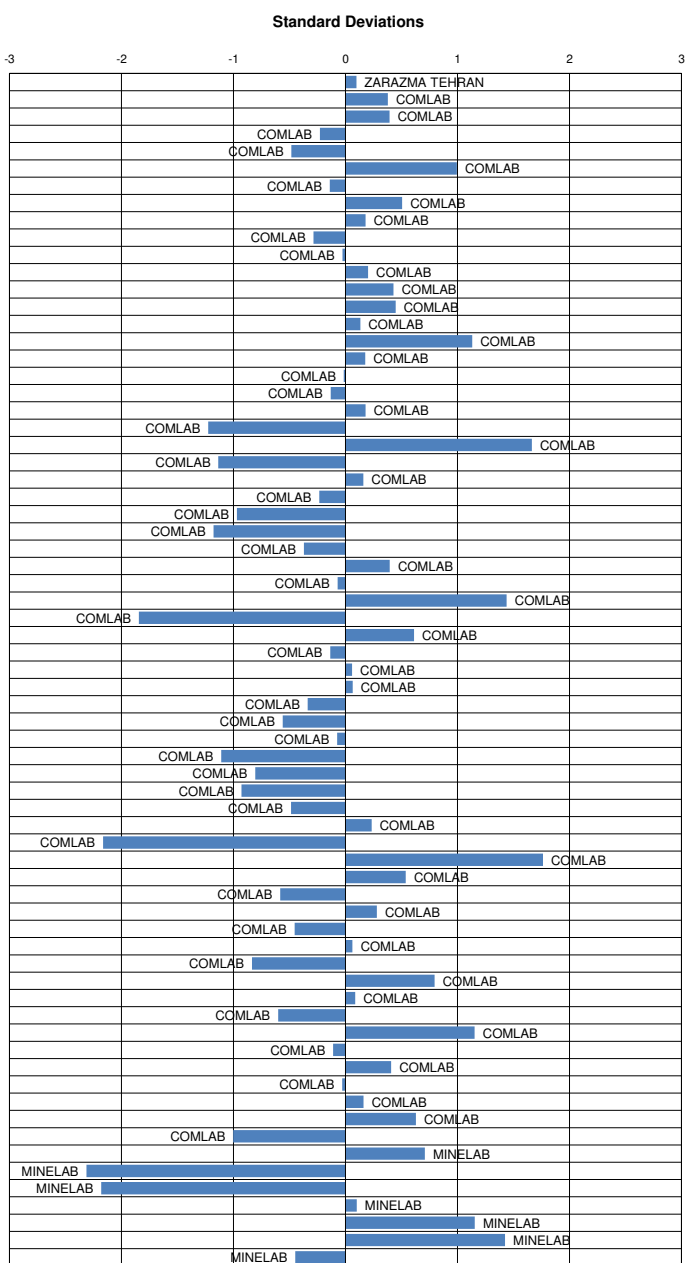


Copper (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	164	37	439	148	2697	24	289	15155	6152	323
STDEV (ppm)	9	3	17	7	122	5	18	460	207	18
95% CI (ppm)	2	1	4	2	29	1	4	126	52	4
95% CI (%)	1.39%	2.09%	0.98%	1.24%	1.09%	5.56%	1.50%	0.83%	0.85%	1.35%
MIN (ppm)	140	29	395	130	2390	11	240	14329	5749	284
MEDIAN (ppm)	164	37	439	147	2702	23	290	15145	6150	326
MAX (ppm)	188	44	478	167	2956	36	332	16190	6690	358
IQR (ppm)	12	3	20	10	133	5	25	649	258	18
COUNT	61	56	62	63	67	59	65	52	61	64

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
ZARAZMA TEHRAN	159	-0.52	35	-0.48	440	0.08	144	-0.50	2751	0.44	27	0.59
COMLAB	161	-0.35	38	0.49	476	2.19	154	0.87	2790	0.76	22	-0.34
COMLAB	149	-1.68	36	-0.20	425	-0.79	186	3.00	2729	0.26	36	2.39
COMLAB	173	0.98	32	-1.58	448	0.55	148	0.06	2480	-1.77	21	-0.54
COMLAB	158	-0.68	36	-0.20	398	-2.36	140	-1.03	2702	0.04	26	0.44
COMLAB	172	0.87	38	0.45	495	3.00	152	0.60	2880	1.50	23	-0.20
COMLAB	168	0.42	<50	bld	434	-0.26	160	1.68	2560	-1.12	<50	bld
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
COMLAB	163	-0.13	38	0.49	439	0.03	144	-0.49	2712	0.13	29	1.02
COMLAB	164	-0.02	34	-0.89	433	-0.32	152	0.60	2650	-0.38	21	-0.54
COMLAB	164	-0.02	35	-0.55	445	0.38	144	-0.49	2810	0.93	22	-0.34
COMLAB	169	0.53	35	-0.55	446	0.44	151	0.46	2780	0.68	21	-0.54
COMLAB	176	1.31	37	0.14	454	0.90	145	-0.35	2780	0.68	29	1.02
COMLAB	174	1.09	36	-0.20	466	1.60	150	0.33	2830	1.09	24	0.05
COMLAB	158	-0.68	38	0.49	453	0.84	144	-0.49	2700	0.03	21	-0.54
COMLAB	200	3.00	44	2.56	454	0.90	154	0.87	2744	0.39	24	0.05
COMLAB	163	-0.13	38	0.49	438	-0.03	146	-0.21	2690	-0.05	23	-0.15
COMLAB	158	-0.68	35	-0.55	445	0.38	146	-0.21	2670	-0.22	23	-0.15
COMLAB	156	-0.90	36	-0.20	453	0.84	140	-1.03	2700	0.03	20	-0.73
COMLAB	164	-0.02	38	0.49	439	0.03	144	-0.49	2690	-0.05	26	0.44
COMLAB	130	-3.00	23	-3.00	436	-0.15	140	-1.03	2651	-0.37	12	-2.29
COMLAB	335	3.00	215	3.00	603	3.00	270	3.00	2702	0.04	212	3.00
COMLAB	148	-1.81	40	1.01	395	-2.56	139	-1.22	2455	-1.98	25	0.17
COMLAB	180	1.75	37	0.14	450	0.67	143	-0.62	2752	0.45	30	1.22
COMLAB	149	-1.68	33	-1.34	429	-0.59	152	0.57	2760	0.51	21	-0.59
COMLAB	124	-3.00	29	-2.62	441	0.14	142	-0.76	2590	-0.87	12	-2.29
COMLAB	143	-2.34	32	-1.58	413	-1.49	137	-1.44	2567	-1.06	20	-0.73
COMLAB	166	0.20	34	-0.89	430	-0.50	140	-1.03	2630	-0.55	22	-0.34
COMLAB	169	0.53	36	-0.17	461	1.31	154	0.87	2752	0.45	23	-0.20
COMLAB	166	0.20	38	0.49	438	-0.03	148	0.06	2900	1.66	23	-0.15
COMLAB	192	3.00	47	3.00	453	0.84	158	1.41	2770	0.60	35	2.19
COMLAB	156	-0.90	<118	bld	386	-3.00	190	3.00	2249	-3.00	<118	bld
COMLAB	164	-0.02	38	0.49	455	0.96	148	0.06	2799	0.84	26	0.44
COMLAB	166	0.20	37	0.14	444	0.32	140	-1.03	2701	0.04	24	0.05
COMLAB	174	1.12	35	-0.44	448	0.52	154	0.82	2747	0.41	23	-0.22
COMLAB	165	0.09	38	0.49	434	-0.26	143	-0.62	2680	-0.14	23	-0.15
COMLAB	162	-0.24	33	-1.24	446	0.44	140	-1.03	2760	0.52	18	-1.12
COMLAB	161	-0.35	33	-1.24	429	-0.56	140	-1.03	2669	-0.23	18	-1.12
COMLAB	164	-0.02	36	-0.20	445	0.38	144	-0.49	2663	-0.28	23	-0.15
COMLAB	162	-0.28	35	-0.58	441	0.14	146	-0.16	2419	-2.27	22	-0.38
COMLAB	152	-1.34	38	0.49	410	-1.66	154	0.87	2600	-0.79	24	0.05
COMLAB	155	-1.01	31	-1.93	416	-1.31	140	-1.03	2719	0.18	11	-2.48
COMLAB	161	-0.35	36	-0.20	406	-1.90	142	-0.76	2865	1.38	22	-0.34
COMLAB	163	-0.13	36	-0.20	442	0.20	146	-0.21	2769	0.59	24	0.05
COMLAB	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	2426	-2.22	<0.1	-3.00
COMLAB	184	2.19	40	1.16	478	2.28	167	2.58	2956	2.13	27	0.66
COMLAB	167	0.31	37	0.14	446	0.44	146	-0.21	2644	-0.43	21	-0.54
COMLAB	151	-1.44	30	-2.26	422	-0.97	133	-2.03	2493	-1.67	15	-1.65
COMLAB	166	0.20	40	1.18	437	-0.09	162	1.96	2723	0.22	29	1.02
COMLAB	158	-0.67	36	-0.34	435	-0.22	155	0.99	2664	-0.27	20	-0.70
COMLAB	175	1.20	42	1.83	420	-1.08	148	0.06	2660	-0.30	31	1.41
COMLAB	158	-0.68	36	-0.20	418	-1.20	138	-1.30	2620	-0.63	22	-0.34
COMLAB	188	2.63	39	0.83	449	0.61	157	1.28	2827	1.07	29	1.02
COMLAB	170	0.64	39	0.83	428	-0.61	143	-0.62	2685	-0.10	28	0.83
COMLAB	158	-0.68	34	-0.89	430	-0.50	142	-0.76	2781	0.69	18	-1.12
COMLAB	175	1.20	40	1.01	468	1.72	157	1.28	2842	1.19	34	2.02
COMLAB	168	0.45	41	1.37	427	-0.70	147	-0.01	2574	-1.00	26	0.40
COMLAB	172	0.87	39	0.83	439	0.03	149	0.19	2813	0.95	22	-0.34
COMLAB	165	0.09	37	0.14	439	0.03	147	-0.08	2795	0.81	26	0.44
COMLAB	166	0.20	39	0.83	451	0.73	151	0.46	2776	0.65	22	-0.34
COMLAB	168	0.42	38	0.49	448	0.55	155	1.01	2602	-0.77	26	0.44
COMLAB	163	-0.18	17	-3.00	412	-1.53	152	0.58	2781	0.69	<0.01	-3.00
MINELAB	170	0.64	60	3.00	450	0.67	160	1.68	2780	0.68	30	1.22
MINELAB	<500	bld	<500	bld	<500	bld	<500	bld	2400	-2.43	<500	bld
MINELAB	140	-2.67	nr	nr	387	-3.00	130	-2.39	2390	-2.51	nr	nr
MINELAB	164	-0.05	39	0.75	432	-0.36	148	0.01	2776	0.65	24	-0.02
MINELAB	172	0.87	48	3.00	434	-0.26	150	0.33	2562	-1.10	54	3.00
MINELAB	171	0.75	41	1.52	463	1.43	163	2.09	2837	1.15	34	2.00
MINELAB	170	0.69	<100	bld	416	-1.29	151	0.49	2701	0.04	<100	bld

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.

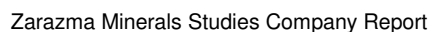


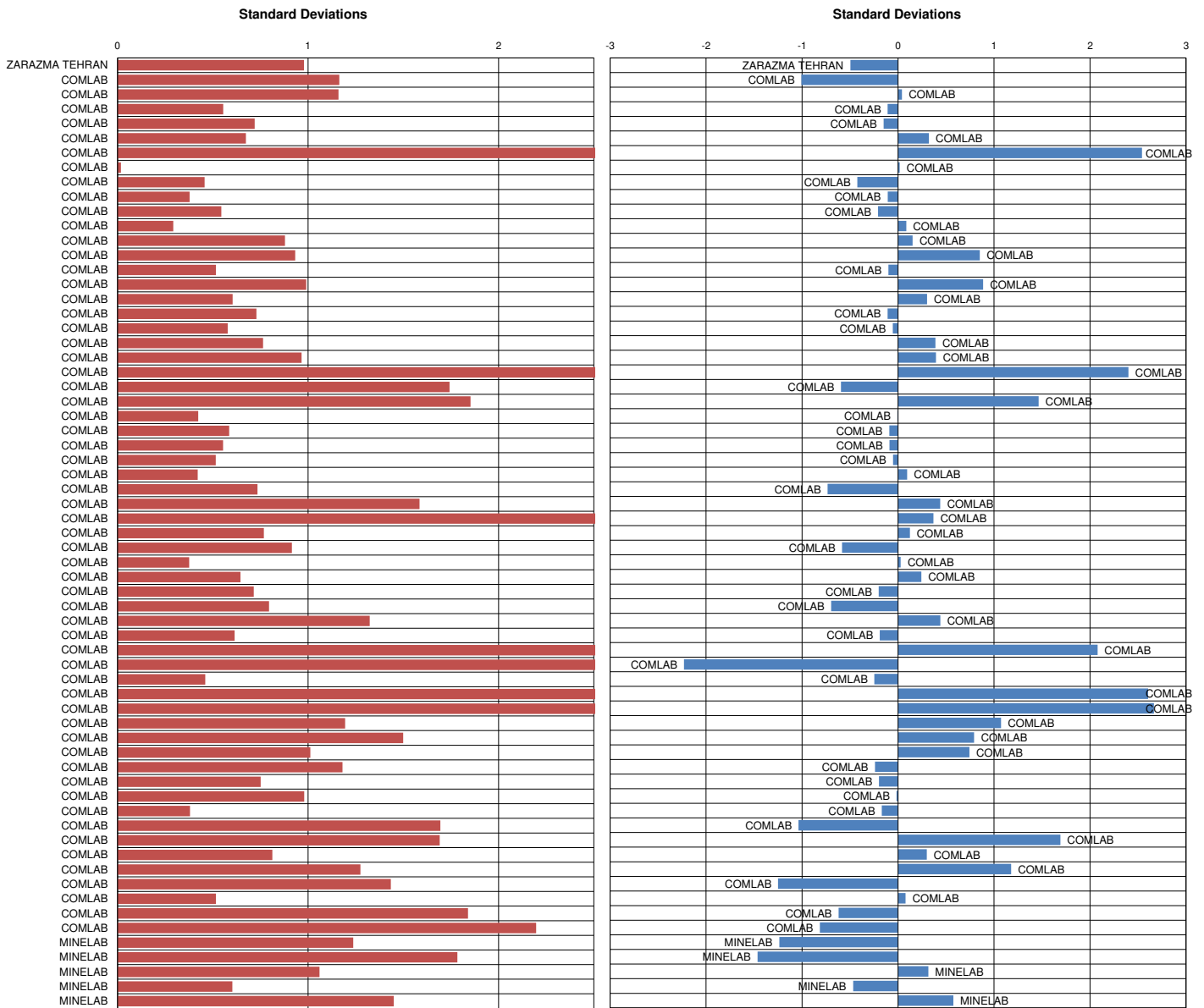
Copper (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	161	36	440	147	2720	20	293	14860	6205	332
STDEV (ppm)	9	3	19	8	108	3	16	753	192	18
95% CI (ppm)	2	1	4	2	24	1	4	175	44	4
95% CI (%)	1.28%	1.86%	0.96%	1.25%	0.87%	2.97%	1.22%	1.18%	0.70%	1.21%
MIN (ppm)	138	28	394	125	2476	14	249	12920	5850	289
MEDIAN (ppm)	162	36	437	147	2727	20	293	14842	6204	331
MAX (ppm)	186	43	494	166	3004	25	333	16670	6689	377
IQR (ppm)	12	3	24	9	121	3	22	826	265	23
COUNT	79	69	81	78	81	72	82	72	75	82

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
COMLAB	169	0.83	34	-0.56	447	0.38	151	0.50	2750	0.28	18	-0.76
COMLAB	148	-1.43	31	-1.64	404	-1.84	159	1.48	2661	-0.54	17	-1.15
COMLAB	148	-1.43	34	-0.56	451	0.59	140	-0.83	2760	0.37	19	-0.36
COMLAB	159	-0.25	35	-0.20	394	-2.36	140	-0.83	2728	0.07	24	1.61
COMLAB	160	-0.14	36	0.01	452	0.64	146	-0.10	2690	-0.28	19	-0.36
COMLAB	163	0.18	36	0.16	442	0.12	157	1.23	2756	0.33	19	-0.36
COMLAB	159	-0.25	37	0.52	438	-0.08	144	-0.35	2680	-0.37	19	-0.36
COMLAB	163	0.18	35	-0.20	434	-0.29	143	-0.47	2620	-0.92	19	-0.36
COMLAB	158	-0.36	35	-0.20	441	0.07	146	-0.10	2670	-0.46	19	-0.36
COMLAB	169	0.83	39	1.24	442	0.12	149	0.26	2770	0.46	20	0.03
COMLAB	165	0.40	37	0.52	446	0.33	147	0.02	2720	0.00	20	0.03
COMLAB	163	0.18	37	0.52	429	-0.55	140	-0.83	2670	-0.46	18	-0.76
COMLAB	163	0.18	37	0.52	452	0.64	148	0.14	2700	-0.18	20	0.03
COMLAB	164	0.29	37	0.52	442	0.12	150	0.38	2790	0.65	20	0.03
COMLAB	164	0.29	34	-0.56	428	-0.60	157	1.23	2630	-0.83	20	0.03
COMLAB	157	-0.46	36	0.16	430	-0.50	139	-0.95	2760	0.37	23	1.21
COMLAB	166	0.50	38	0.88	452	0.64	145	-0.22	2700	-0.18	23	1.21
COMLAB	159	-0.30	34	-0.45	444	0.23	145	-0.22	2750	0.28	19	-0.24
COMLAB	173	1.26	41	1.96	444	0.23	154	0.87	2828	1.00	19	-0.36
COMLAB	147	-1.56	16	-3.00	337	-3.00	100	-3.00	2096	-3.00	10	-3.00
COMLAB	184	2.44	90	3.00	418	-1.12	179	3.00	2577	-1.32	85	3.00
COMLAB	161	-0.05	34	-0.73	421	-0.94	145	-0.25	2585	-1.25	18	-0.62
COMLAB	152	-1.00	33	-0.92	466	1.36	150	0.38	2747	0.25	18	-0.76
COMLAB	168	0.72	36	0.16	463	1.21	155	0.99	2760	0.37	23	1.21
COMLAB	165	0.40	38	0.88	437	-0.13	149	0.26	2693	-0.25	20	0.03
COMLAB	162	0.07	40	1.60	429	-0.55	148	0.14	2606	-1.05	20	0.03
COMLAB	166	0.50	33	-0.92	404	-1.84	160	1.60	2824	0.96	17	-1.15
COMLAB	152	-1.00	34	-0.57	452	0.64	143	-0.50	2727	0.06	19	-0.33
COMLAB	163	0.18	55	3.00	410	-1.53	149	0.26	2481	-2.21	37	3.00
COMLAB	153	-0.89	33	-0.92	411	-1.48	136	-1.32	2628	-0.85	16	-1.54
COMLAB	156	-0.57	29	-2.36	437	-0.13	135	-1.44	2640	-0.74	9	-3.00
COMLAB	176	1.56	46	3.00	461	1.12	154	0.89	2822	0.94	25	2.18
COMLAB	162	0.07	35	-0.20	425	-0.75	147	0.02	2499	-2.04	20	0.03
COMLAB	154	-0.79	35	-0.20	434	-0.29	144	-0.35	2735	0.14	21	0.42
COMLAB	171	0.99	38	0.94	494	2.79	164	2.14	2915	1.80	24	1.46
COMLAB	153	-0.89	37	0.52	417	-1.17	136	-1.32	2635	-0.78	19	-0.36
COMLAB	148	-1.40	26	-3.00	431	-0.43	119	-3.00	2953	2.15	18	-0.40
COMLAB	150	-1.22	31	-1.64	426	-0.70	142	-0.59	2591	-1.19	14	-2.33
COMLAB	163	0.18	40	1.60	453	0.69	152	0.63	2687	-0.30	22	0.82
COMLAB	149	-1.32	32	-1.17	428	-0.60	139	-0.95	2730	0.09	18	-0.87
COMLAB	167	0.60	40	1.49	484	2.27	162	1.83	2861	1.30	23	1.25
COMLAB	177	1.69	37	0.41	483	2.24	160	1.60	2883	1.50	25	1.92
COMLAB	186	2.66	37	0.52	455	0.80	148	0.14	2700	-0.18	23	1.21
COMLAB	163	0.18	34	-0.56	451	0.59	151	0.50	2814	0.87	17	-1.15
COMLAB	159	-0.22	33	-0.96	447	0.38	145	-0.22	2739	0.18	17	-1.15
COMLAB	152	-1.00	34	-0.56	427	-0.65	137	-1.20	2585	-1.25	18	-0.76
COMLAB	162	0.07	35	-0.20	441	0.07	147	0.02	2747	0.25	19	-0.36
COMLAB	173	1.26	33	-0.92	434	-0.29	148	0.14	2752	0.30	20	0.03
COMLAB	158	-0.36	34	-0.45	432	-0.39	141	-0.71	2620	-0.92	19	-0.36
COMLAB	138	-2.55	30	-2.10	375	-3.00	120	-3.00	2282	-3.00	18	-0.85
MINELAB	<200	bld	<200	bld	483	2.24	<200	bld	2805	0.78	<200	bld
MINELAB	178	1.80	<100	bld	451	0.59	165	2.21	2857	1.26	<100	bld
MINELAB	154	-0.79	37	0.52	426	-0.70	142	-0.59	2614	-0.98	21	0.42
MINELAB	177	1.69	46	3.00	475	1.83	153	0.75	2805	0.78	19	-0.36
MINELAB	14915	3.00	23	-3.00	435	-0.24	127	-2.39	11	-3.00	2380	3.00
MINELAB	165	0.40	<50	bld	423	-0.86	150	0.38	2752	0.30	<50	bld
MINELAB	150	-1.24	33	-0.82	423	-0.86	140	-0.79	2996	2.54	50	3.00
MINELAB	107	-3.00	26	-3.00	343	-3.00	133	-1.68	2120	-3.00	25	2.00
MINELAB	115	-3.00	<20	-3.00	341	-3.00	75	-3.00	2535	-1.71	<20	bld
MINELAB	165	0.40	<100	bld	440	0.02	145	-0.22	2730	0.09	<100	bld
MINELAB	201	3.00	57	3.00	473	1.73	176	3.00	3004	2.62	52	3.00
MINELAB	149	-1.32	33	-0.92	413	-1.37	133	-1.68	2678	-0.39	19	-0.36
MINELAB	181	2.12	40	1.60	437	-0.13	156	1.11	2850	1.20	23	1.21
MINELAB	161	-0.03	36	0.16	435	-0.24	147	0.02	3201	3.00	20	0.03
MINELAB	197	3.00	77	3.00	453	0.69	166	2.33	2734	0.13	82	3.00
MINELAB	154	-0.79	16	-3.00	422	-0.91	139	-0.95	2860	1.29	20	0.03
MINELAB	157	-0.44	34	-0.46	437	-0.11	145	-0.18	2771	0.47	20	0.13
MINELAB	153	-0.91	37	0.41	422	-0.91	140	-0.80	2599	-1.12	22	0.78
MINELAB	162	0.12	34	-0.45	454	0.75	150	0.38	2949	2.11	15	-1.91
MINELAB	149	-1.35	28	-2.69	347	-3.00	125	-2.70	2476	-2.25	15	-1.90
MINELAB	170	0.93	34	-0.56	427	-0.65	153	0.75	2584	-1.26	20	0.03
MINELAB	156	-0.57	37	0.52	442	0.12	147	0.02	2770	0.46	19	-0.36
MINELAB	157	-0.46	35	-0.27	431	-0.44	144	-0.35	2682	-0.35	19	-0.32
MINELAB	154	-0.79	36	0.16	428	-0.60	144	-0.35	2654	-0.61	16	-1.54
MINELAB	168	0.72	41	1.96	449	0.49	153	0.75	2776	0.52	25	2.00
MINELAB	153	-0.89	35	-0.20	439	-0.03	145	-0.22	2650	-0.65	21	0.42
MINELAB	160	-0.14	35	-0.20	442	0.12	147	0.02	2692	-0.26	22	0.82
MINELAB	156	-0.57	36	0.16	442	0.12	146	-0.10	2702	-0.17	22	0.82
MINELAB	173	1.26	43	2.68	443	0.18	157	1.23	2700	-0.18	40	3.00
MINELAB	160	-0.14	37	0.52	423	-0.86	136	-1.32	2663	-0.53	21	0.42
MINELAB	142	-2.08	21	-3.00	414	-1.32	122	-3.00	2681	-0.36	15	-1.94
MINELAB	173	1.26	36	0.16	460	1.05	160	1.60	2807	0.80	21	0.23
MINELAB	164	0.25	39	1.09	485	2.36	140	-0.84	2589	-1.21	24	1.63
MINELAB	160	-0.14	36	0.16	437	-0.13	149	0.26	2744	0.22	21	0.42
MINELAB	167	0.61	36	0.16	426	-0.70	142	-0.59	2644	-0.70	22	0.82
MINELAB	164	0.27	39	1.06	434	-0.31	147	0.05	2802	0.75	22	0.69

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



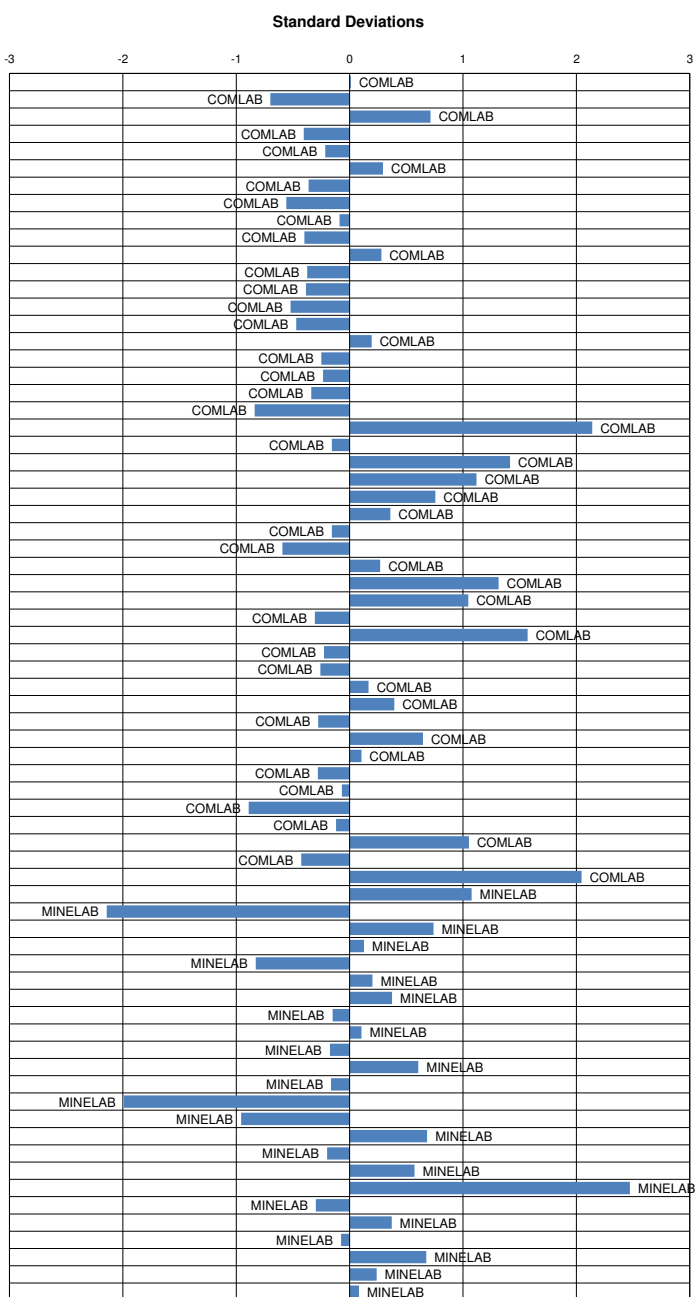


Lead (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	30	129	7	69	7	21	265	44	133	21393
STDEV (ppm)	3	6	2	3	2	4	15	8	9	679
95% CI (ppm)	1	2	1	1	1	1	4	2	2	190
95% CI (%)	2.49%	1.19%	8.63%	1.27%	8.07%	4.80%	1.49%	4.56%	1.65%	0.89%
MIN (ppm)	22	114	3	60	2	11	231	29	115	19570
MEDIAN (ppm)	30	129	6	69	6	20	266	42	133	21434
MAX (ppm)	36	145	12	75	11	30	300	62	153	23022
IQR (ppm)	3	7	3	3	2	5	17	10	12	833
COUNT	58	64	52	59	54	59	60	56	62	50

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
COMLAB	30	0.12	126	-0.49	4	-1.23	72	0.97	7	0.21	18	-0.68
COMLAB	28	-0.58	119	-1.61	3	-1.72	58	-3.00	5	-0.81	14	-1.72
COMLAB	30	0.12	131	0.32	7	0.24	74	1.56	10	1.72	22	0.36
COMLAB	21	-3.00	128	-0.17	7	0.24	69	0.09	7	0.21	21	0.10
COMLAB	27	-1.07	129	-0.01	5	-0.89	66	-0.67	6	-0.40	18	-0.68
COMLAB	35	1.88	131	0.32	5	-0.74	69	0.09	6	-0.30	23	0.62
COMLAB	28	-0.58	136	1.12	6	-0.25	66	-0.79	6	-0.30	17	-0.94
COMLAB	27	-0.93	130	0.15	5	-0.74	81	3.00	3	-1.82	14	-1.72
COMLAB	29	-0.23	128	-0.17	9	1.22	70	0.38	6	-0.30	20	-0.16
COMLAB	27	-0.93	138	1.44	4	-1.23	68	-0.20	3	-1.82	16	-1.20
COMLAB	29	-0.23	125	-0.65	10	1.70	70	0.38	9	1.22	23	0.62
COMLAB	28	-0.58	130	0.15	5	-0.74	68	-0.20	5	-0.81	17	-0.94
COMLAB	29	-0.23	131	0.32	5	-0.74	66	-0.79	6	-0.30	16	-1.20
COMLAB	30	0.12	129	-0.01	3	-1.72	72	0.97	5	-0.81	21	0.10
COMLAB	28	-0.58	128	-0.17	6	-0.25	68	-0.20	6	-0.30	20	-0.16
COMLAB	30	0.12	132	0.48	8	0.73	69	0.09	7	0.21	22	0.36
COMLAB	30	0.12	134	0.80	7	0.24	68	-0.20	6	-0.30	19	-0.42
COMLAB	29	-0.19	129	-0.01	5	-0.69	69	0.21	6	-0.55	19	-0.45
COMLAB	35	1.88	116	-2.09	6	-0.25	74	1.56	8	0.71	17	-0.94
COMLAB	30	0.23	94	-3.00	16	3.00	45	-3.00	2	-2.40	28	2.05
COMLAB	83	3.00	170	3.00	50	3.00	117	3.00	42	3.00	70	3.00
COMLAB	31	0.43	127	-0.35	6	-0.46	70	0.38	21	0.02	263	-0.13
COMLAB	29	-0.23	137	1.28	11	2.19	92	3.00	15	3.00	27	1.66
COMLAB	36	2.23	131	0.32	8	0.73	70	0.38	10	1.72	30	2.44
COMLAB	31	0.48	131	0.32	<5	bld	70	0.38	9	1.22	11	-2.50
COMLAB	33	1.18	134	0.80	8	0.73	72	0.97	8	0.71	22	0.36
COMLAB	28	-0.65	134	0.82	6	-0.08	61	-2.35	7	0.11	18	-0.72
COMLAB	30	0.12	124	-0.81	5	-0.74	62	-1.97	5	-0.81	19	-0.42
COMLAB	<40	bld	128	-0.17	<40	bld	69	0.09	<40	bld	<40	bld
COMLAB	35	1.95	134	0.83	10	1.94	71	0.63	13	3.00	23	0.74
COMLAB	33	1.18	125	-0.65	23	3.00	75	1.86	14	3.00	46	3.00
COMLAB	28	-0.58	133	0.64	6	-0.25	67	-0.50	4	-1.31	19	-0.42
COMLAB	32	0.73	143	2.21	17	3.00	73	1.24	8	0.95	20	-0.15
COMLAB	29	-0.23	120	-1.45	7	0.24	65	-1.09	5	-0.81	23	0.62
COMLAB	32	0.97	114	-2.35	9	1.26	67	-0.38	11	1.98	22	0.36
COMLAB	26	-1.28	124	-0.81	3	-1.72	70	0.38	6	-0.30	26	1.40
COMLAB	31	0.48	132	0.48	9	1.22	74	1.56	9	1.22	24	0.88
COMLAB	28	-0.69	126	-0.44	6	-0.30	68	-0.23	9	1.37	20	-0.24
COMLAB	31	0.48	141	1.92	8	0.73	73	1.27	5	-0.81	22	0.36
COMLAB	30	0.12	131	0.32	8	0.73	71	0.68	7	0.21	20	-0.16
COMLAB	43	3.00	126	-0.49	8	0.73	63	-1.68	5	-0.81	19	-0.42
COMLAB	31	0.42	130	0.10	7	0.48	67	-0.63	4	-1.30	19	-0.46
COMLAB	27	-0.93	118	-1.77	6	-0.25	63	-1.68	6	-0.30	18	-0.68
COMLAB	29	-0.23	135	0.96	6	-0.25	71	0.68	6	-0.30	21	0.10
COMLAB	31	0.48	129	-0.01	7	0.24	88	3.00	6	-0.30	23	0.62
COMLAB	27	-0.86	124	-0.81	5	-0.77	70	0.38	6	-0.09	24	0.75
COMLAB	88	3.00	180	3.00	98	3.00	144	3.00	73	3.00	155	3.00
MINELAB	<200	bld	<200	bld	<200	bld	<200	bld	<200	bld	<200	bld
MINELAB	<10	-3.00	<10	-3.00	<10	bld	<10	-3.00	<10	bld	<10	bld
MINELAB	<50	bld	142	2.08	<50	bld	72	0.97	<50	bld	273	0.53
MINELAB	23	-2.17	122	-1.08	6	-0.48	73	1.40	8	0.57	19	-0.45
MINELAB	20	-3.00	67	-3.00	17	3.00	60	-2.56	11	2.23	28	1.92
MINELAB	22	-2.69	125	-0.65	<20	bld	67	-0.50	<20	bld	30	2.44
MINELAB	<100	bld	130	0.15	<100	bld	<100	bld	<100	bld	300	2.28
MINELAB	26	-1.28	128	-0.17	<4	bld	69	0.09	<4	bld	18	-0.68
MINELAB	31	0.48	145	2.56	6	-0.25	70	0.38	7	0.00	20	-0.16
MINELAB	32	0.86	117	-1.97	5	-0.66	67	-0.37	5	-0.91	19	-0.54
MINELAB	34	1.64	129	0.06	10	1.52	68	-0.08	7	0.26	22	0.37
MINELAB	28	-0.45	125	-0.71	<17	bld	68	-0.11	<17	bld	296	2.04
MINELAB	20	-3.00	94	-3.00	5	-0.79	50	-3.00	6	-0.15	13	-1.90
MINELAB	28	-0.58	124	-0.81	4	-1.23	68	-0.20	2	-2.33	18	-0.68
MINELAB	36	2.23	126	-0.49	<10	bld	68	-0.20	10	1.72	26	1.40
MINELAB	27	-0.93	132	0.48	7	0.24	64	-1.38	7	0.21	25	1.14
MINELAB	27	-0.93	125	-0.65	12	2.68	67	-0.50	10	1.72	28	1.92
MINELAB	73	3.00	133	0.64	30	3.00	97	3.00	33	3.00	50	3.00
MINELAB	27	-0.93	125	-0.65	5	-0.74	63	-1.68	6	-0.30	21	0.10
MINELAB	32	0.93	126	-0.49	<10	bld	70	0.35	<10	bld	20	-0.13
MINELAB	29	-0.40	140	1.72	5	-0.82	70	0.26	5	-0.92	19	-0.34
MINELAB	30	0.12	130	0.15	<18	bld	74	1.56	<18	bld	274	0.60
MINELAB	30	0.12	128	-0.17	8	0.73	70	0.38	7	0.21	23	0.62
MINELAB	30	0.17	125	-0.65	7	0.21	64	-1.44	7	0.22	20	-0.06

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.

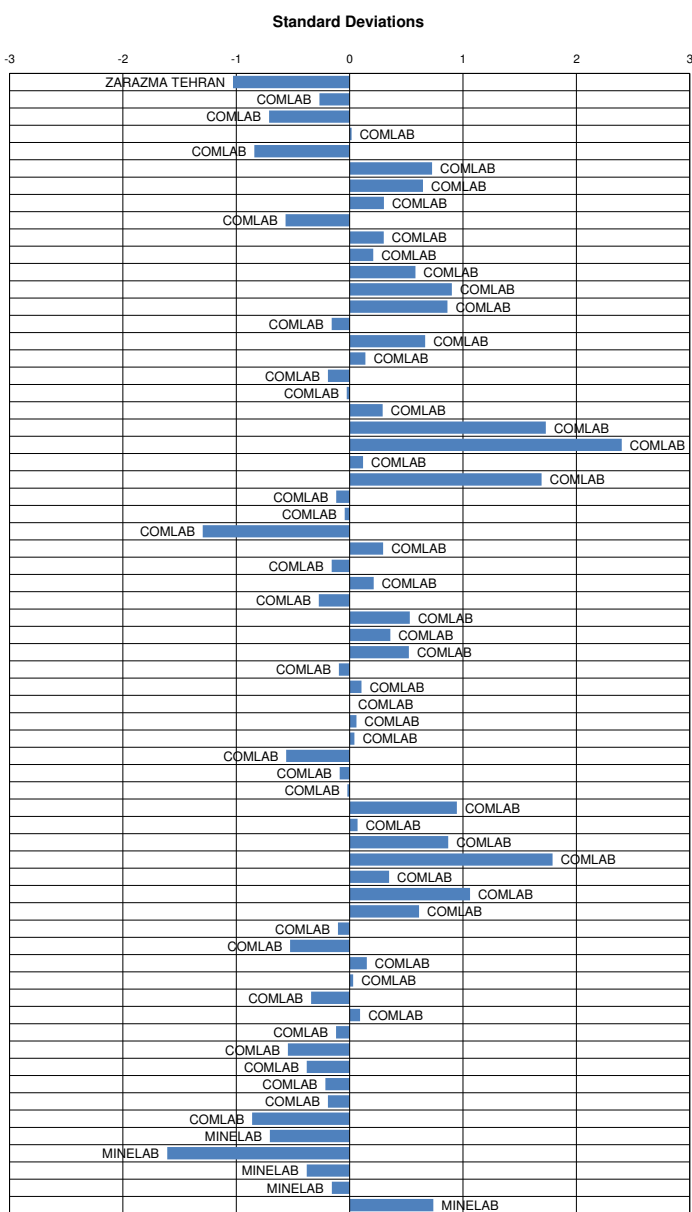
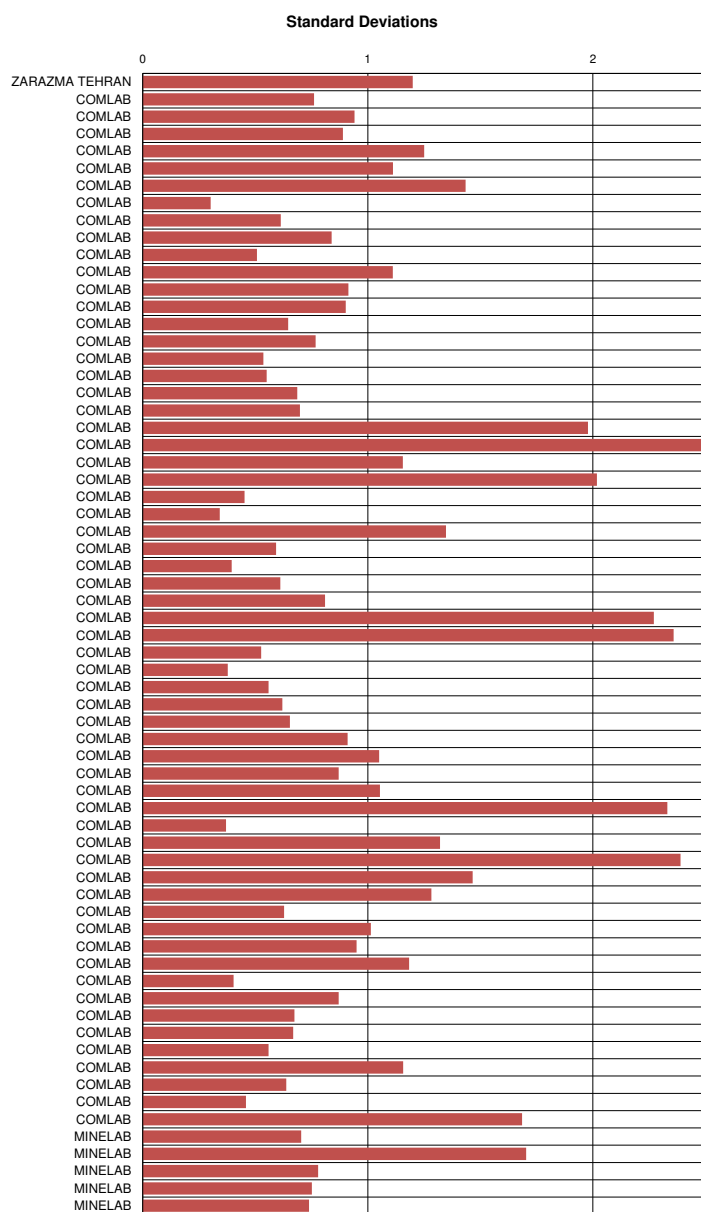


Zinc (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	48	174	91	410	75	35	353	87	1148	108616
STDEV (ppm)	5	10	5	20	4	6	23	7	48	3134
95% CI (ppm)	1	3	1	5	1	1	6	2	12	937
95% CI (%)	2.58%	1.50%	1.43%	1.28%	1.49%	4.18%	1.66%	2.11%	1.05%	0.86%
MIN (ppm)	36	153	82	357	67	22	297	69	1033	101320
MEDIAN (ppm)	48	174	90	409	76	33	350	88	1143	108500
MAX (ppm)	59	195	104	460	84	48	403	104	1277	115064
IQR (ppm)	4	14	5	21	6	7	34	7	63	3761
COUNT	53	61	59	59	50	58	62	52	62	44

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
ZARAZMA TEHRAN	42	-1.28	160	-1.43	95	0.86	374	-1.79	73	-0.69	30	-0.85
COMLAB	47	-0.24	178	0.36	88	-0.53	437	1.31	70	-1.34	32	-0.49
COMLAB	50	0.42	157	-1.68	83	-1.52	403	-0.35	70	-1.34	32	-0.49
COMLAB	52	0.85	160	-1.39	91	0.07	439	1.41	70	-1.34	31	-0.67
COMLAB	31	-3.00	170	-0.42	83	-1.52	388	-1.09	43	-3.00	41	1.12
COMLAB	48	-0.13	189	1.43	96	1.09	438	1.36	76	0.14	39	0.67
COMLAB	59	2.39	182	0.75	90	-0.13	427	0.82	88	3.00	40	0.94
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
COMLAB	43	-1.12	164	-1.00	86	-0.93	400	-0.50	71	-1.09	32	-0.49
COMLAB	45	-0.68	175	0.07	104	2.66	436	1.26	77	0.41	32	-0.49
COMLAB	48	-0.02	176	0.17	93	0.47	419	0.43	84	2.16	34	-0.14
COMLAB	51	0.64	185	1.04	102	2.26	441	1.51	79	0.91	29	-1.03
COMLAB	50	0.42	195	2.01	94	0.67	409	-0.06	79	0.91	38	0.58
COMLAB	55	1.51	188	1.33	98	1.46	422	0.58	83	1.91	37	0.40
COMLAB	45	-0.68	170	-0.42	89	-0.33	392	-0.89	76	0.16	30	-0.85
COMLAB	48	-0.02	174	-0.03	90	-0.13	436	1.26	80	1.16	34	-0.14
COMLAB	50	0.42	178	0.36	92	0.27	412	0.09	83	1.91	32	-0.49
COMLAB	40	-1.77	170	-0.42	89	-0.33	415	0.23	76	0.16	32	-0.49
COMLAB	45	-0.68	193	1.81	91	0.07	397	-0.65	78	0.66	29	-1.03
COMLAB	46	-0.46	186	1.14	92	0.27	446	1.75	78	0.66	33	-0.31
COMLAB	68	3.00	185	1.04	113	3.00	434	1.16	125	3.00	65	3.00
COMLAB	365	3.00	354	3.00	198	3.00	677	3.00	186	3.00	359	3.00
COMLAB	46	-0.46	170	-0.45	102	2.20	387	-1.15	78	0.56	42	1.30
COMLAB	57	1.95	192	1.72	100	1.86	480	3.00	89	3.00	47	2.19
COMLAB	49	0.13	179	0.45	89	-0.43	402	-0.39	75	-0.19	32	-0.58
COMLAB	46	-0.46	175	0.07	90	-0.13	408	-0.11	77	0.41	31	-0.67
COMLAB	41	-1.56	160	-1.39	84	-1.32	395	-0.75	63	-3.00	22	-2.28
COMLAB	<200	bld	<200	bld	<200	bld	420	0.48	<200	bld	340	-0.56
COMLAB	48	-0.02	170	-0.42	92	0.27	402	-0.40	78	0.66	28	-1.21
COMLAB	47	-0.22	172	-0.22	92	0.29	398	-0.60	74	-0.24	32	-0.47
COMLAB	46	-0.46	160	-1.39	87	-0.73	402	-0.40	71	-1.09	37	0.40
COMLAB	83	3.00	163	-1.10	90	-0.13	366	-2.17	97	3.00	46	2.01
COMLAB	<40	bld	188	1.33	67	-3.00	488	3.00	48	-3.00	70	3.00
COMLAB	48	-0.02	180	0.55	94	0.67	412	0.09	79	0.91	37	0.40
COMLAB	52	0.85	173	-0.13	89	-0.33	410	-0.01	73	-0.59	31	-0.67
COMLAB	52	0.85	171	-0.32	91	0.07	416	0.28	77	0.41	31	-0.67
COMLAB	48	-0.02	171	-0.32	89	-0.33	404	-0.31	77	0.41	33	-0.31
COMLAB	48	-0.02	171	-0.32	90	-0.13	405	-0.26	33	-0.31	324	-1.24
COMLAB	54	1.29	184	0.94	88	-0.53	407	-0.16	71	-1.09	33	-0.31
COMLAB	45	-0.68	160	-1.39	85	-1.13	387	-1.14	70	-1.34	37	0.40
COMLAB	46	-0.53	178	0.36	93	0.55	460	2.44	76	0.06	32	-0.55
COMLAB	58	2.17	168	-0.61	84	-1.32	388	-1.09	75	-0.09	33	-0.31
COMLAB	80	3.00	244	3.00	99	1.66	377	-1.63	100	3.00	44	1.65
COMLAB	48	-0.02	189	1.43	92	0.27	407	-0.16	73	-0.59	33	-0.31
COMLAB	48	-0.02	176	0.17	90	-0.13	418	0.38	88	3.00	23	-2.10
COMLAB	78	3.00	193	1.81	108	3.00	446	1.75	92	3.00	48	2.36
COMLAB	62	3.00	153	-2.07	91	0.07	400	-0.50	67	-2.09	67	3.00
COMLAB	48	-0.01	191	1.58	99	1.65	421	0.51	79	0.85	45	1.91
COMLAB	49	0.20	178	0.36	92	0.27	420	0.48	77	0.41	45	1.83
COMLAB	45	-0.62	179	0.46	85	-1.06	477	3.00	73	-0.65	34	-0.05
COMLAB	36	-2.65	165	-0.90	83	-1.52	384	-1.28	75	-0.09	34	-0.14
COMLAB	49	0.20	166	-0.81	85	-1.13	488	3.00	83	1.91	33	-0.31
COMLAB	45	-0.68	171	-0.32	92	0.27	409	-0.06	77	0.41	34	-0.14
COMLAB	59	2.39	168	-0.61	86	-0.93	400	-0.50	71	-1.09	31	-0.67
COMLAB	46	-0.46	184	0.94	89	-0.33	432	1.06	70	-1.34	40	0.94
COMLAB	48	-0.06	164	-1.03	89	-0.31	412	0.10	71	-0.97	43	1.52
COMLAB	46	-0.46	175	0.07	87	-0.73	391	-0.94	71	-1.09	31	-0.67
COMLAB	33	-3.00	174	-0.03	93	0.47	408	-0.11	94	3.00	31	-0.67
COMLAB	52	0.85	169	-0.51	86	-0.93	400	-0.50	78	0.66	32	-0.49
COMLAB	48	-0.02	171	-0.32	89	-0.33	409	-0.06	80	1.16	35	0.04
COMLAB	44	-0.95	155	-1.85	96	1.13	357	-2.62	74	-0.35	30	-0.81
MINELAB	<1000	bld	<1000	bld	<1000	bld	<1000	bld	<1000	bld	<1000	bld
MINELAB	nr	nr	167	-0.71	82	-1.72	417	0.33	54	-3.00	nr	nr
MINELAB	41	-1.51	177	0.30	92	0.36	422	0.60	72	-0.82	34	-0.19
MINELAB	52	0.85	166	-0.81	84	-1.42	411	0.01	71	-1.09	42	1.30
MINELAB	51	0.64	182	0.75	92	0.27	430	0.97	78	0.66	40	0.94

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



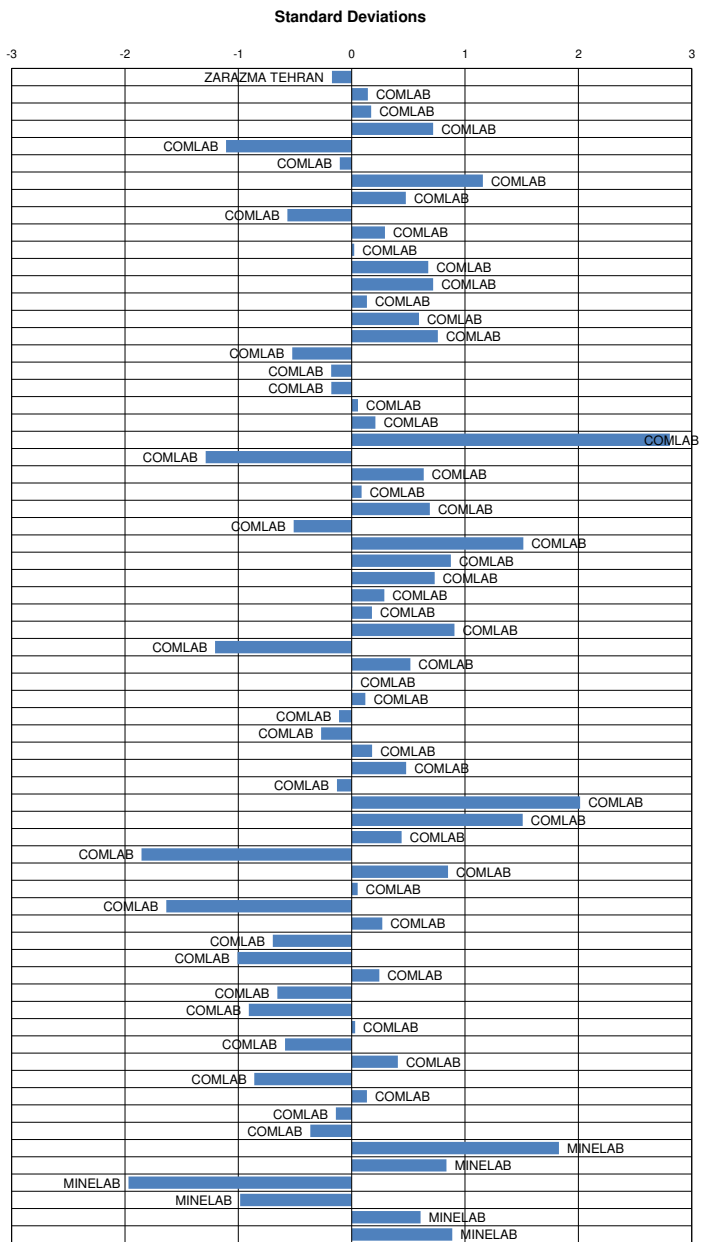
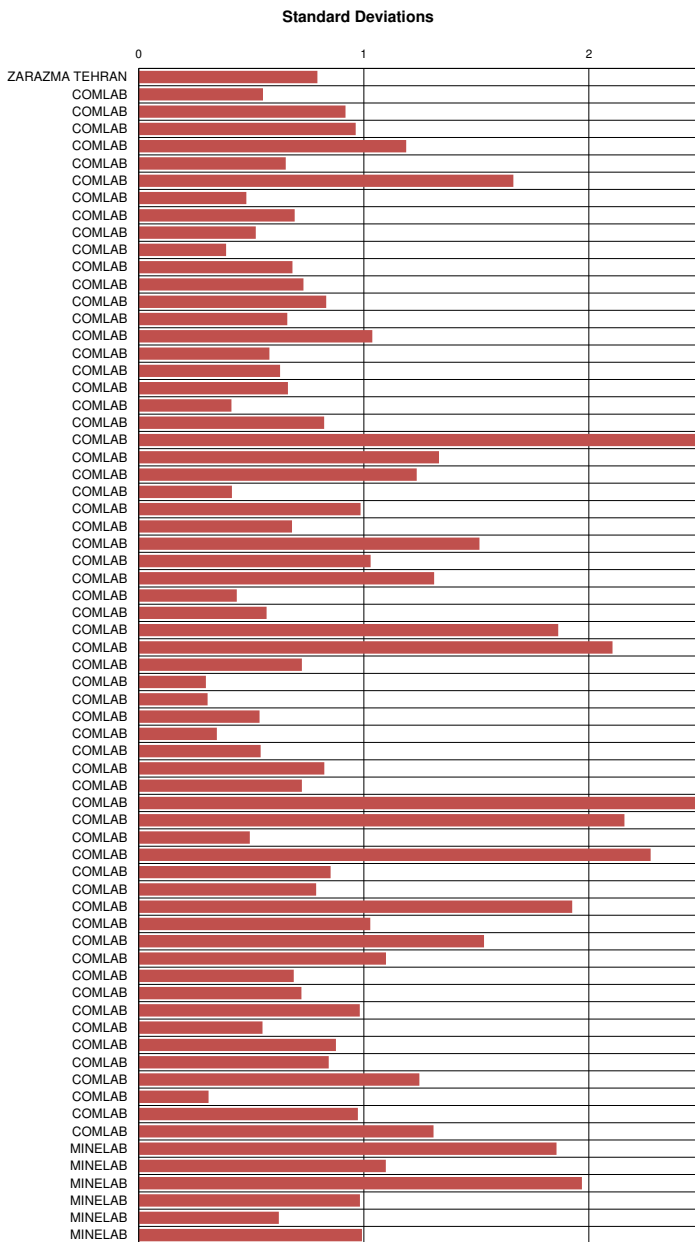
Zinc (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	22	168	87	399	67	24	333	76	1153	107913
STDEV (ppm)	2	11	5	15	4	5	25	9	64	5324
95% CI (ppm)	1	3	1	4	1	1	6	2	15	1506
95% CI (%)	3.14%	1.56%	1.50%	0.96%	1.72%	5.04%	1.76%	3.08%	1.34%	1.40%
MIN (ppm)	18	145	73	363	57	16	275	55	1003	94521
MEDIAN (ppm)	22	168	87	399	65	23	335	76	1153	108154
MAX (ppm)	27	196	98	432	78	37	399	99	1328	118596
IQR (ppm)	2	12	5	19	4	5	27	8	76	4445
COUNT	38	66	60	59	59	58	68	52	68	49

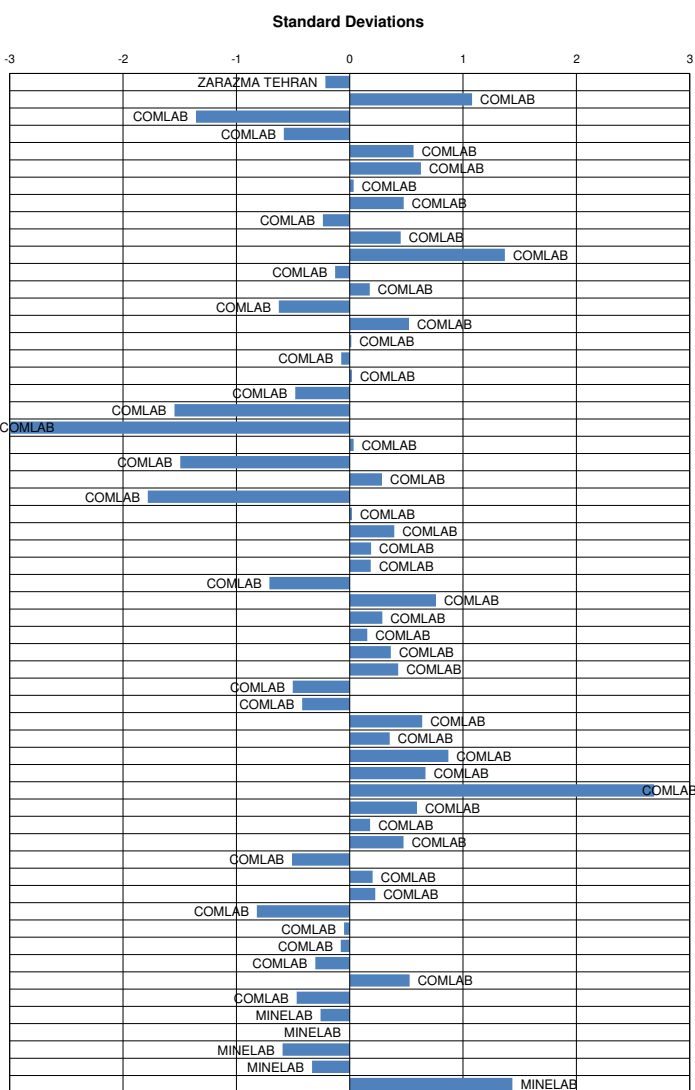
Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
COMLAB	27	2.16	150	-1.64	81	-1.10	393	-0.42	63	-0.83	24	-0.09
COMLAB	19	-1.52	145	-2.10	77	-1.88	389	-0.69	57	-2.18	20	-0.93
COMLAB	21	-0.60	153	-1.36	80	-1.29	367	-2.17	64	-0.61	22	-0.51
COMLAB	26	1.70	163	-0.42	79	-1.49	375	-1.63	41	-3.00	43	3.00
COMLAB	22	-0.23	176	0.79	88	0.22	409	0.65	65	-0.34	22	-0.43
COMLAB	39	3.00	162	-0.52	91	0.86	382	-1.16	65	-0.38	20	-0.93
COMLAB	19	-1.52	174	0.60	87	0.08	394	-0.35	64	-0.61	22	-0.51
COMLAB	20	-1.06	171	0.32	86	-0.12	444	3.00	65	-0.38	18	-1.35
COMLAB	26	1.70	167	-0.05	105	3.00	424	1.66	67	0.07	24	-0.09
COMLAB	22	-0.14	172	0.42	87	0.08	394	-0.35	63	-0.83	23	-0.30
COMLAB	24	0.78	169	0.14	88	0.28	415	1.06	65	-0.38	22	-0.51
COMLAB	21	-0.60	170	0.23	84	-0.51	407	0.52	61	-1.28	20	-0.93
COMLAB	21	-0.60	172	0.42	92	1.06	410	0.72	64	-0.61	22	-0.51
COMLAB	19	-1.52	167	-0.05	88	0.28	419	1.33	65	-0.38	22	-0.51
COMLAB	21	-0.60	167	-0.05	88	0.28	397	-0.15	62	-1.06	20	-0.93
COMLAB	21	-0.60	162	-0.52	84	-0.51	387	-0.82	62	-1.06	23	-0.30
COMLAB	19	-1.52	181	1.26	92	1.06	403	0.25	66	-0.16	23	-0.30
COMLAB	18	-1.98	164	-0.33	85	-0.31	406	0.45	66	-0.16	20	-0.93
COMLAB	65	3.00	134	-3.00	57	-3.00	381	-1.23	42	-3.00	-2	-3.00
COMLAB	32	3.00	170	0.22	94	1.48	383	-1.11	64	-0.62	74	3.00
COMLAB	272	3.00	191	2.19	130	3.00	320	-3.00	109	3.00	71	3.00
COMLAB	23	0.18	157	-0.98	86	-0.18	407	0.54	64	-0.63	23	-0.38
COMLAB	20	-1.06	173	0.51	90	0.67	487	3.00	73	1.41	29	0.96
COMLAB	46	3.00	171	0.32	92	1.06	396	-0.22	71	0.96	33	1.81
COMLAB	36	3.00	164	-0.33	86	-0.12	414	0.99	65	-0.38	22	-0.51
COMLAB	25	1.24	168	0.04	87	0.08	377	-1.49	68	0.29	25	0.12
COMLAB	23	0.25	166	-0.14	85	-0.29	379	-1.38	66	-0.20	21	-0.81
COMLAB	25	1.24	158	-0.89	80	-1.29	372	-1.83	61	-1.28	20	-0.93
COMLAB	29	3.00	170	0.23	91	0.86	412	0.86	65	-0.38	23	-0.30
COMLAB	93	3.00	158	-0.92	86	-0.11	392	-0.52	81	3.00	33	1.85
COMLAB	39	3.00	166	-0.14	88	0.28	407	0.52	68	0.29	25	0.12
COMLAB	22	-0.14	179	1.07	89	0.47	405	0.39	66	-0.16	23	-0.30
COMLAB	44	3.00	194	2.45	110	3.00	421	1.45	74	1.53	31	1.44
COMLAB	29	3.00	151	-1.54	80	-1.29	388	-0.76	64	-0.61	53	3.00
COMLAB	48	3.00	165	-0.26	97	2.09	418	1.24	96	3.00	60	3.00
COMLAB	48	3.00	168	0.04	89	0.47	399	-0.02	77	2.31	30	1.18
COMLAB	22	-0.14	172	0.42	87	0.08	402	0.18	67	0.07	40	3.00
COMLAB	23	0.32	165	-0.24	86	-0.12	407	0.52	65	-0.38	21	-0.72
COMLAB	22	-0.14	175	0.70	87	0.08	432	2.20	65	-0.38	22	-0.51
COMLAB	32	3.00	160	-0.70	89	0.47	395	-0.29	67	0.07	24	-0.09
COMLAB	101	3.00	182	1.35	93	1.26	447	3.00	70	0.74	20	-0.93
COMLAB	22	0.07	174	0.59	92	1.01	395	-0.29	67	0.13	22	-0.44
COMLAB	22	-0.14	154	-1.26	77	-1.88	379	-1.36	63	-0.83	21	-0.72
COMLAB	25	1.24	172	0.42	88	0.28	399	-0.02	71	0.96	22	-0.51
COMLAB	53	3.00	182	1.35	98	2.24	490	3.00	77	2.31	32	1.60
COMLAB	30	3.00	168	0.04	86	-0.16	404	0.32	64	-0.52	24	-0.07
COMLAB	34	3.00	133	-3.00	75	-2.29	301	-3.00	74	1.73	29	0.89
MINELAB	<200	bld	255	3.00	<200	bld	503	3.00	<200	bld	<200	bld
MINELAB	<3	-3.00	196	2.66	50	-3.00	520	3.00	75	1.86	<3	-3.00
MINELAB	<50	bld	146	-2.01	70	-3.00	363	-2.43	53	-3.00	<50	bld
MINELAB	37	3.00	159	-0.81	86	-0.09	415	1.02	68	0.23	31	1.37
MINELAB	26	1.70	160	-0.70	93	1.26	510	3.00	53	-3.00	16	-1.78
MINELAB	57	3.00	275	3.00	160	3.00	459	3.00	119	3.00	119	3.00
MINELAB	<100	bld	170	0.23	<100	bld	395	-0.29	<100	bld	<100	bld
MINELAB	48	3.00	178	0.98	94	1.45	409	0.65	68	0.29	28	0.75
MINELAB	23	0.32	161	-0.61	82	-0.90	394	-0.35	68	0.29	23	-0.30
MINELAB	39	3.00	159	-0.81	86	-0.17	395	-0.29	66	-0.11	nr	nr
MINELAB	22	-0.02	172	0.40	86	-0.05	390	-0.62	76	2.07	23	-0.36
MINELAB	39	3.00	172	0.38	88	0.29	402	0.16	67	0.16	25	0.05
MINELAB	43	3.00	150	-1.60	73	-2.61	389	-0.68	60	-1.62	19	-1.06
MINELAB	23	0.32	156	-1.12	82	-1.00	404	0.28	63	-0.83	22	-0.51
MINELAB	22	-0.14	153	-1.36	82	-0.90	382	-1.16	70	0.74	32	1.60
MINELAB	22	-0.14	169	0.14	89	0.47	392	-0.49	64	-0.61	29	0.96
MINELAB	46	3.00	192	2.28	115	3.00	421	1.46	89	3.00	36	2.44
MINELAB	100	3.00	167	-0.05	93	1.26	500	3.00	70	0.74	37	2.65
MINELAB	46	3.00	174	0.60	92	1.06	402	0.18	78	2.53	34	2.02
MINELAB	22	0.00	164	-0.33	82	-0.82	414	0.99	64	-0.70	20	-0.85
MINELAB	30	3.00	177	0.88	93	1.16	420	1.38	71	0.90	25	0.15
MINELAB	23	0.32	158	-0.89	82	-0.90	413	0.92	63	-0.83	22	-0.51
MINELAB	24	0.78	169	0.14	87	0.08	392	-0.49	64	-0.61	23	-0.30
MINELAB	42	3.00	170	0.18	86	-0.21	414	1.01	65	-0.35	29	0.99

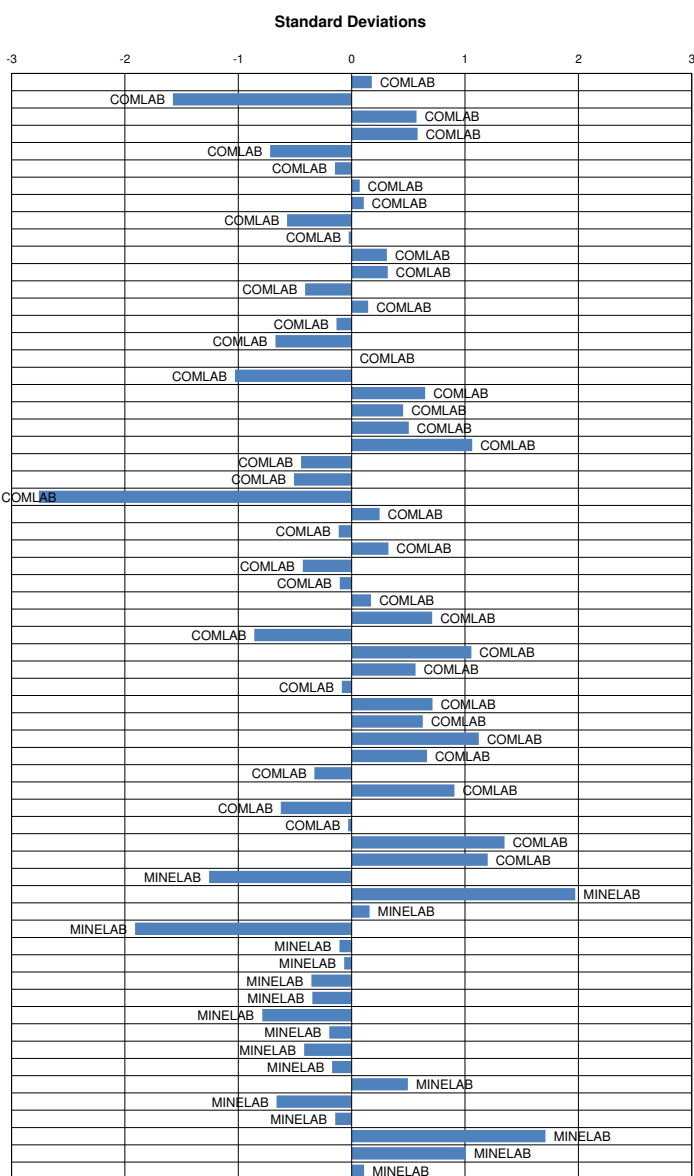
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.









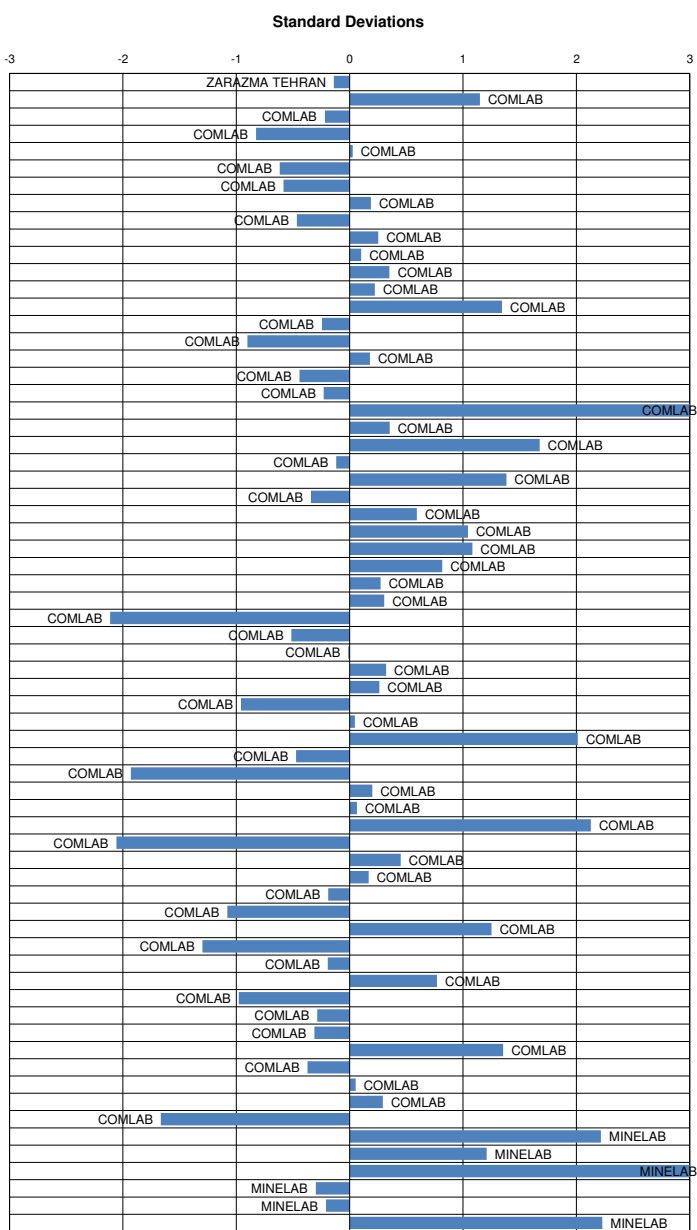


Cobalt (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	61	15	18	15	18	8	332	1215	39	66
STDEV (ppm)	3	1	1	1	1	1	21	79	3	4
95% CI (ppm)	1	0	0	0	0	0	5	19	1	1
95% CI (%)	1.40%	1.58%	1.27%	1.12%	1.77%	4.20%	1.60%	1.60%	1.94%	1.48%
MIN (ppm)	52	13	16	14	15	5	280	1003	33	56
MEDIAN (ppm)	61	15	17	15	18	8	331	1215	39	66
MAX (ppm)	70	17	19	16	20	11	385	1366	46	74
IQR (ppm)	4	1	1	1	1	1	25	101	3	5
COUNT	63	52	46	53	53	51	62	65	58	63

Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
ZARAZMA TEHRAN	60	-0.25	16	0.72	18	0.63	15	-0.36	16	-1.46	7	-0.96
COMLAB	62	0.36	18	3.00	20	3.00	16	1.81	18	0.22	10	1.38
COMLAB	57	-1.11	15	0.10	18	0.63	15	0.18	17	-0.65	7	-1.01
COMLAB	63	0.65	13	-2.22	17	-0.68	15	0.18	15	-2.38	8	-0.21
COMLAB	61	0.06	15	0.10	18	0.63	15	0.18	37	3.00	8	-0.21
COMLAB	59	-0.49	14	-1.06	17	-0.42	14	-1.61	17	-0.65	8	0.09
COMLAB	60	-0.23	14	-1.06	17	-0.68	14	-1.45	17	-0.65	7	-1.01
COMLAB	62	0.36	15	0.10	17	-0.68	16	1.81	18	0.22	8	-0.21
COMLAB	61	0.06	14	-1.06	18	0.63	14	-1.45	17	-0.65	7	-1.01
COMLAB	66	1.53	15	0.10	17	-0.68	15	0.18	18	0.22	8	-0.21
COMLAB	64	0.94	16	1.26	18	0.63	15	0.18	17	-0.65	5	-2.61
COMLAB	64	0.94	15	0.10	19	1.95	15	0.18	18	0.22	8	-0.21
COMLAB	62	0.36	15	0.10	18	0.63	14	-1.45	18	0.22	9	0.59
COMLAB	65	1.24	15	0.10	20	3.00	15	0.18	20	1.95	15	3.00
COMLAB	61	0.06	14	-1.06	18	0.63	15	0.18	18	0.22	7	-1.01
COMLAB	57	-1.11	14	-1.06	17	-0.68	14	-1.45	16	-1.51	7	-1.01
COMLAB	64	0.94	15	0.10	17	-0.68	15	0.18	18	0.22	8	-0.21
COMLAB	60	-0.23	14	-1.06	17	-0.68	14	-1.45	17	-0.65	8	-0.21
COMLAB	58	-0.82	14	-1.06	17	-0.68	15	0.18	18	0.22	10	1.38
COMLAB	126	3.00	166	3.00	182	3.00	96	3.00	187	3.00	259	3.00
COMLAB	50	-3.00	16	1.73	20	3.00	16	2.20	20	2.09	15	3.00
COMLAB	66	1.53	16	1.26	20	3.00	16	1.81	20	1.95	11	2.18
COMLAB	59	-0.67	14	-0.83	18	0.11	15	-0.47	18	-0.04	9	0.19
COMLAB	62	0.36	17	2.43	20	3.00	15	0.18	20	1.95	13	3.00
COMLAB	62	0.36	14	-1.06	17	-0.68	14	-1.45	17	-0.65	8	-0.21
COMLAB	63	0.65	15	0.10	19	1.95	15	0.18	18	0.22	9	0.59
COMLAB	63	0.65	16	1.26	19	1.95	15	0.18	19	1.08	10	1.38
COMLAB	61	0.06	15	0.10	22	3.00	16	1.81	20	1.95	8	-0.21
COMLAB	63	0.56	16	1.03	19	1.68	15	0.67	18	0.39	9	0.43
COMLAB	62	0.36	15	0.10	18	0.63	15	0.18	19	1.08	9	0.59
COMLAB	54	-1.99	16	1.26	18	0.63	15	0.18	22	3.00	16	3.00
COMLAB	39	-3.00	<36	bld	<36	bld	<36	bld	<36	bld	<36	bld
COMLAB	58	-0.82	14	-1.06	17	-0.68	14	-1.45	17	-0.65	8	-0.21
COMLAB	62	0.36	15	0.10	18	0.63	14	-1.45	17	-0.65	8	-0.21
COMLAB	63	0.68	15	-0.02	18	0.37	15	0.34	18	0.04	9	0.19
COMLAB	62	0.36	16	1.26	17	-0.68	15	0.18	18	0.22	8	-0.21
COMLAB	59	-0.52	14	-1.06	16	-2.00	14	-1.45	16	-1.51	8	-0.21
COMLAB	61	0.06	15	0.33	18	-0.02	14	-0.80	18	0.13	9	0.35
COMLAB	61	0.06	20	3.00	24	3.00	20	3.00	25	3.00	17	3.00
COMLAB	60	-0.35	15	-0.36	17	-0.42	15	0.34	17	-0.65	9	0.19
COMLAB	54	-1.99	11	-3.00	13	-3.00	10	-3.00	14	-3.00	6	-1.81
COMLAB	60	-0.23	15	0.10	19	1.95	15	0.18	18	0.22	10	1.38
COMLAB	62	0.36	15	0.10	17	-0.68	15	0.18	17	-0.65	8	-0.21
COMLAB	66	1.53	19	3.00	25	3.00	19	3.00	30	3.00	16	3.00
COMLAB	55	-1.60	8	-3.00	8	-3.00	8	-3.00	9	-3.00	<0.0002	-3.00
COMLAB	64	0.94	15	0.10	18	0.63	15	0.18	18	0.22	9	0.59
COMLAB	62	0.37	16	1.04	17	-1.01	15	-0.29	17	-0.35	6	-1.91
COMLAB	54	-1.99	15	0.10	17	-0.68	15	0.18	19	1.08	9	0.59
COMLAB	54	-1.94	13	-2.27	17	-1.11	15	0.96	15	-2.07	7	-0.68
COMLAB	62	0.27	20	3.00	20	3.00	20	3.00	17	-0.39	17	3.00
COMLAB	52	-2.57	<20	bld	<20	bld	<20	bld	<20	bld	<20	bld
COMLAB	60	-0.23	<20	bld	<20	bld	<20	bld	<20	bld	<20	bld
COMLAB	57	-1.11	16	1.26	18	0.63	16	1.81	19	1.08	10	1.38
COMLAB	57	-1.11	14	-1.06	16	-2.00	14	-1.45	16	-1.51	8	-0.21
COMLAB	61	0.12	14	-1.18	18	-0.02	14	-0.80	17	-0.56	8	0.03
COMLAB	61	-0.03	14	-0.80	17	-0.05	15	-0.35	17	-0.37	8	0.12
COMLAB	66	1.41	16	1.50	18	0.90	16	1.48	19	0.99	9	0.83
COMLAB	58	-0.82	15	0.10	17	-0.68	15	0.18	18	0.22	10	1.38
COMLAB	60	-0.23	15	0.10	18	0.63	15	0.18	18	0.22	9	0.59
COMLAB	56	-1.40	16	1.26	20	3.00	15	0.18	19	1.08	11	2.18
COMLAB	62	0.37	4	-3.00	6	-3.00	3	-3.00	4	-3.00	<0.01	-3.00
MINELAB	70	2.70	30	3.00	30	3.00	20	3.00	30	3.00	20	3.00
MINELAB	62	0.36	18	3.00	20	3.00	18	3.00	17	-0.65	6	-1.81
MINELAB	262	3.00	280	3.00	345	3.00	260	3.00	295	3.00	570	3.00
MINELAB	61	-0.06	15	0.39	16	-1.81	15	0.64	18	-0.13	7	-1.15
MINELAB	64	0.94	15	-0.48	17	-0.68	15	-0.63	18	0.22	9	0.59
MINELAB	64	0.94	20	3.00	23	3.00	18	3.00	24	3.00	17	3.00

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.

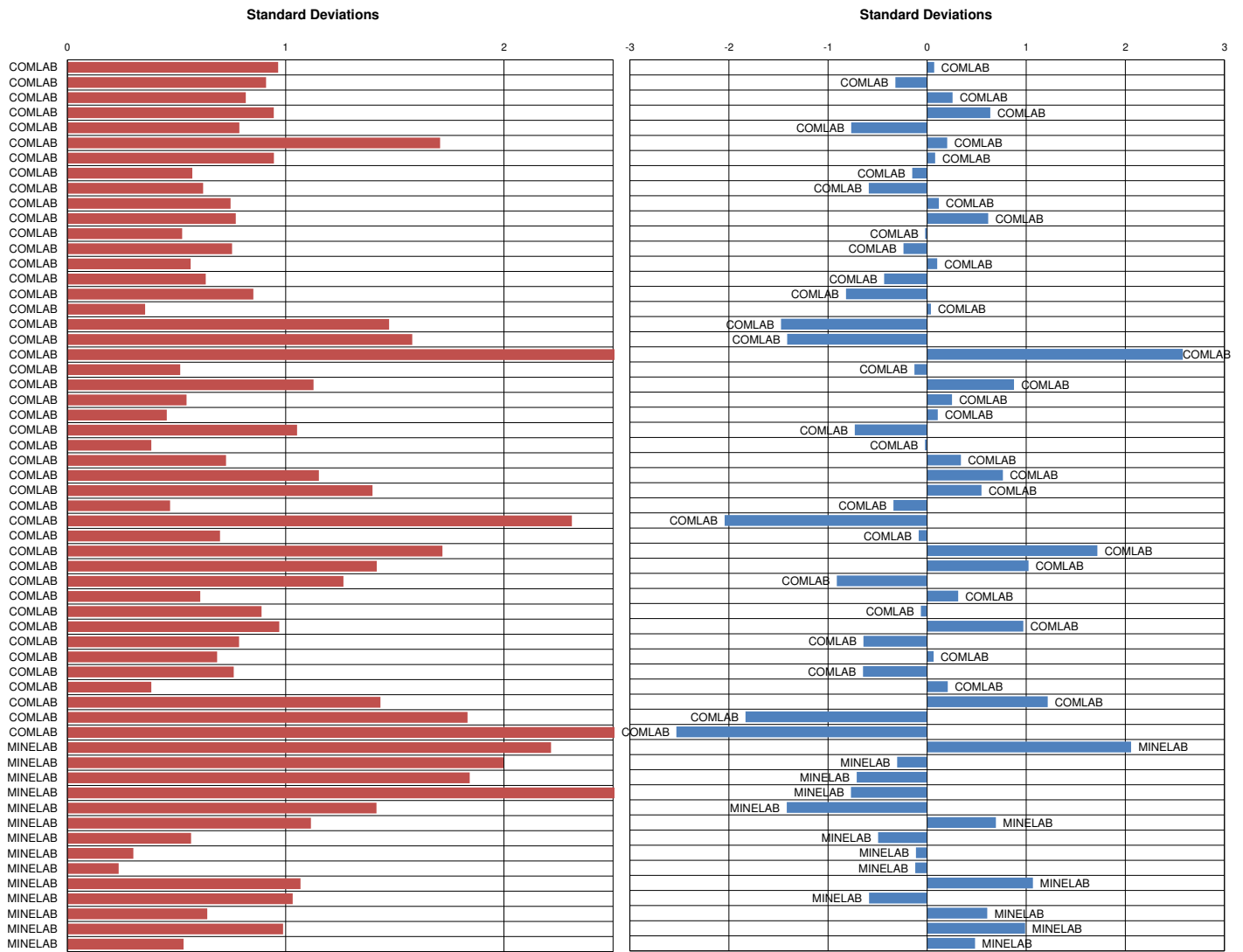


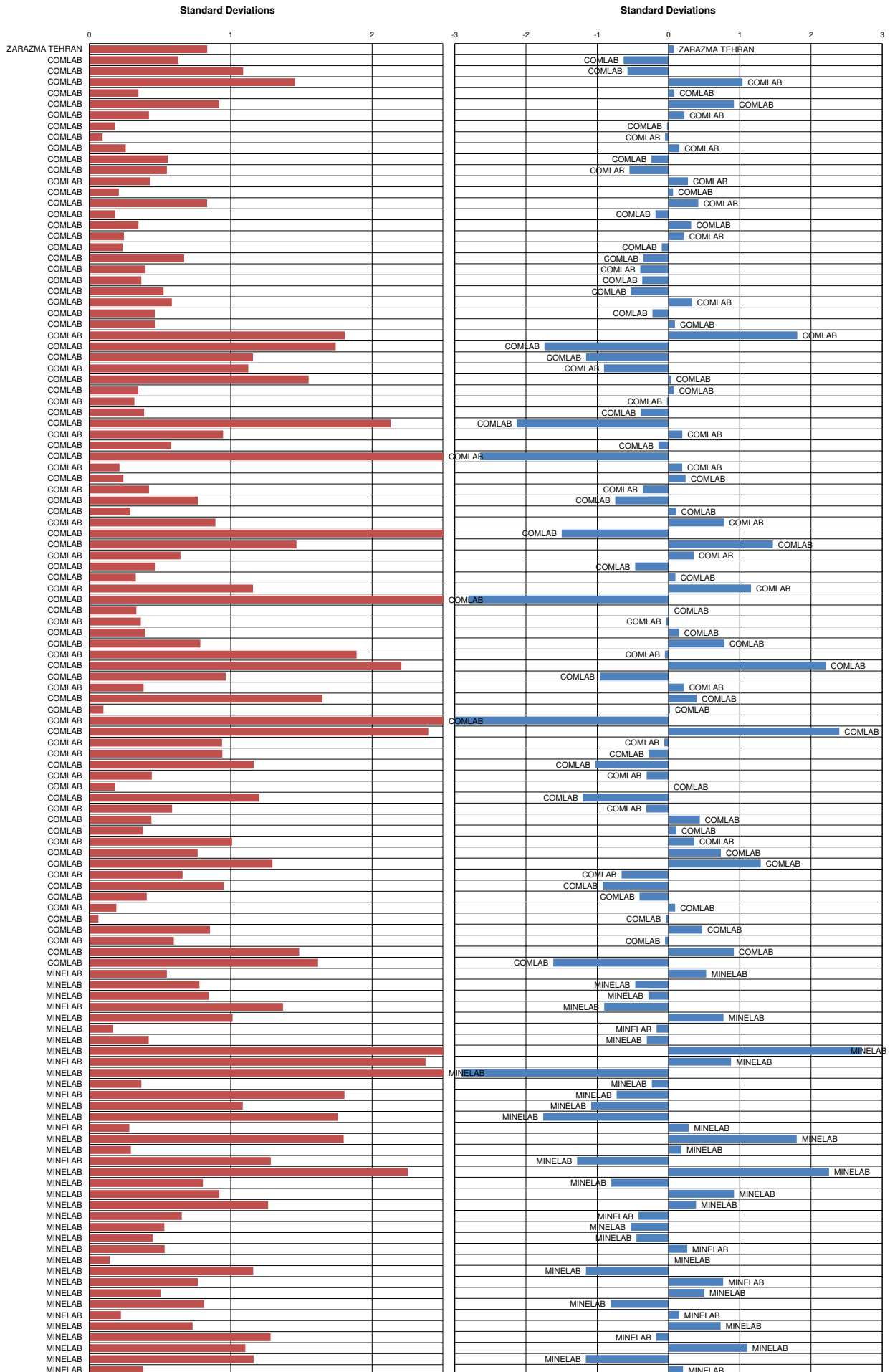
Cobalt (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2024

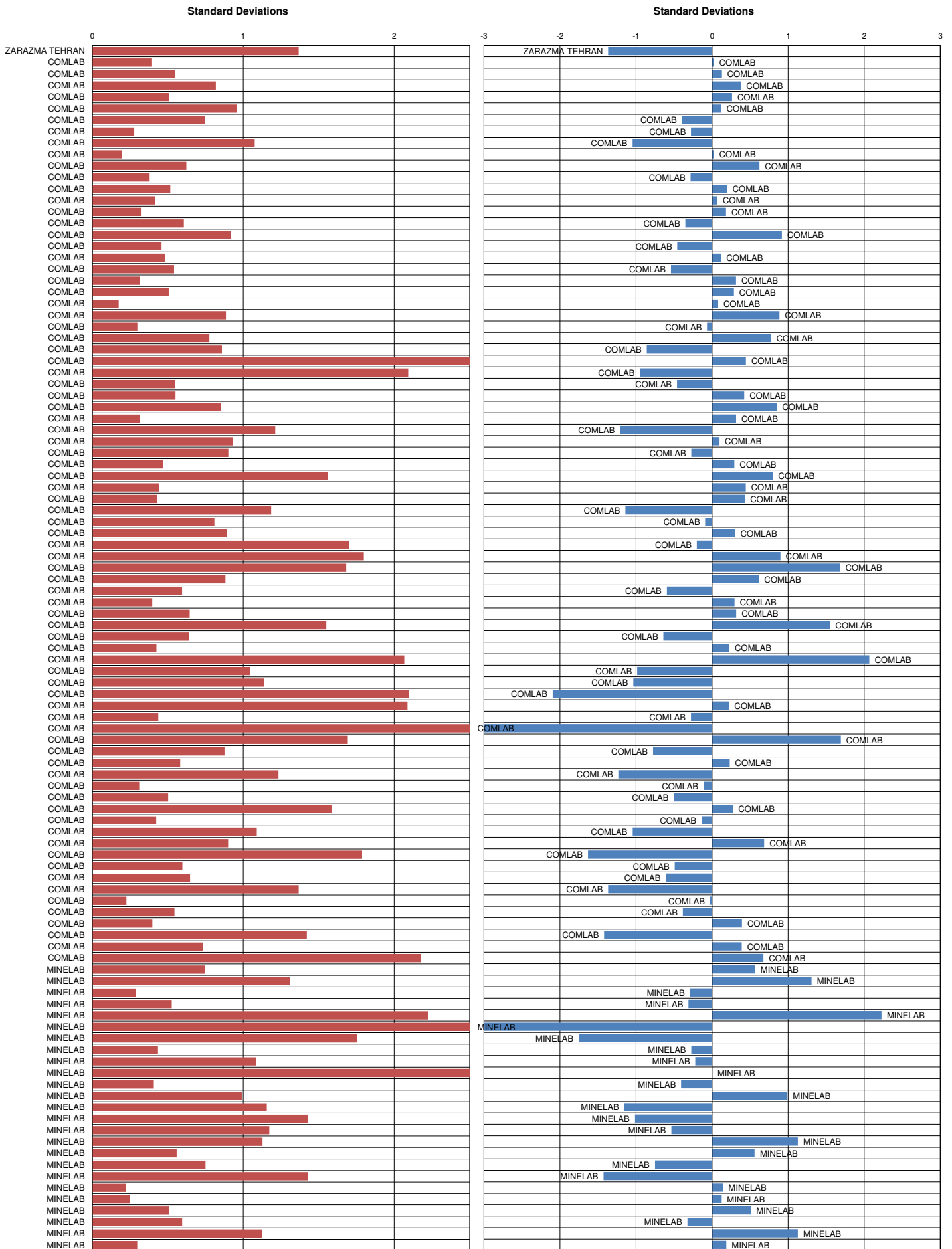
Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10
MEAN (ppm)	56	15	17	15	14	5	329	1189	26	67
STDEV (ppm)	4	1	1	1	1	1	19	68	3	4
95% CI (ppm)	1	0	0	0	0	0	5	19	1	1
95% CI (%)	1.83%	1.42%	1.55%	1.02%	2.12%	6.28%	1.59%	1.59%	3.46%	1.46%
MIN (ppm)	48	13	15	14	12	3	286	1005	20	60
MEDIAN (ppm)	57	15	17	15	14	5	330	1200	26	66
MAX (ppm)	67	16	19	16	17	8	370	1351	35	76
IQR (ppm)	5	1	1	1	1	1	27	85	4	5
COUNT	55	49	49	47	47	49	54	51	54	55

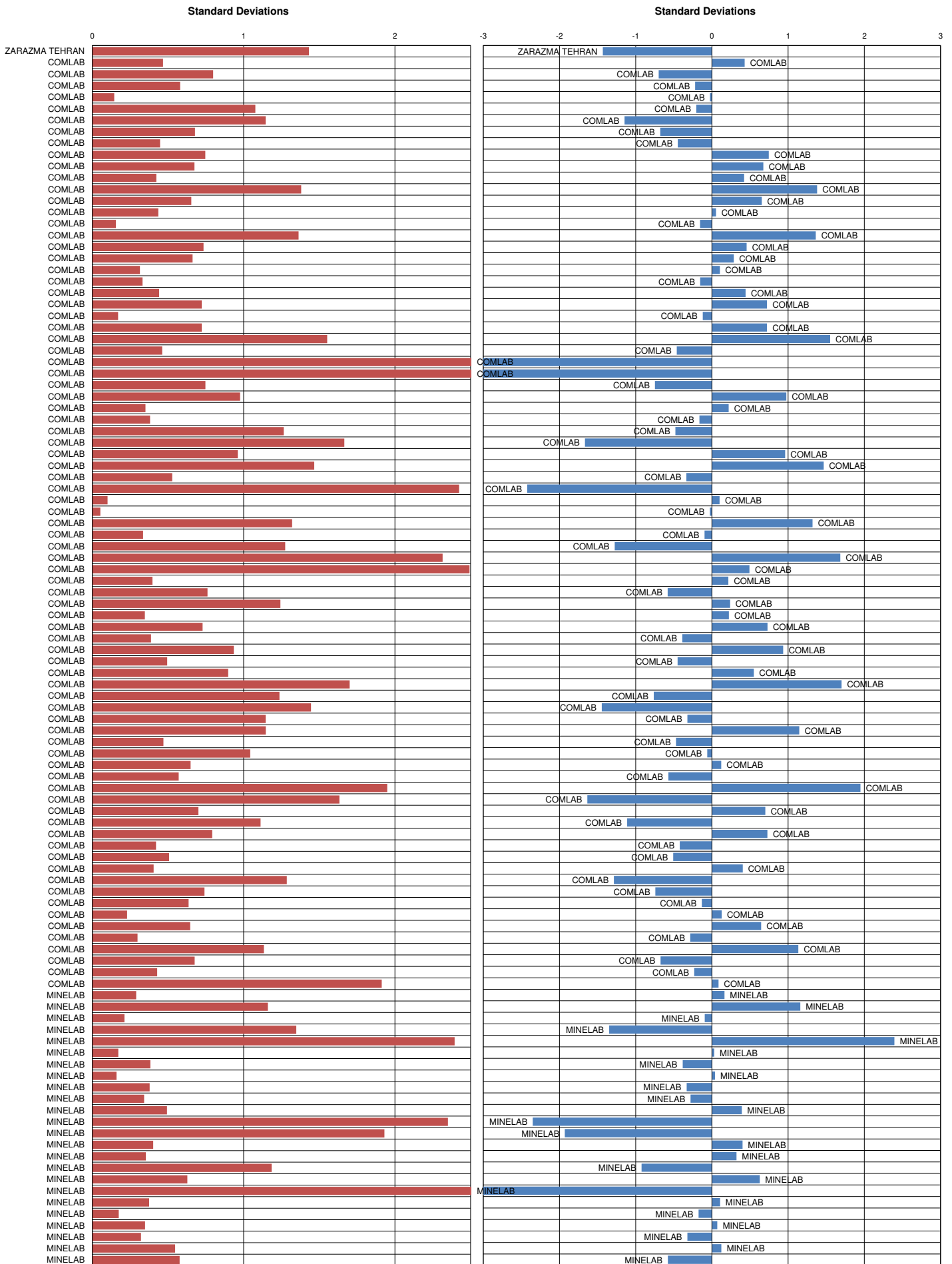
Standard Reference	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
COMLAB	61	1.16	14	-0.71	17	-0.28	15	0.70	15	0.54	5	-0.38
COMLAB	56	-0.13	14	-0.71	16	-1.33	14	-1.24	14	-0.41	6	0.44
COMLAB	53	-0.90	15	0.65	18	0.78	14	-1.24	15	0.54	5	-0.38
COMLAB	59	0.65	15	0.65	17	-0.28	15	0.70	36	3.00	7	1.26
COMLAB	53	-1.03	15	0.11	16	-1.75	14	-0.47	14	-0.69	5	-0.71
COMLAB	67	2.71	<50	bld	<50	bld	<50	bld	<50	bld	<50	bld
COMLAB	58	0.39	14	-0.71	17	-0.28	15	0.70	16	1.48	3	-2.03
COMLAB	55	-0.39	15	0.65	17	-0.28	14	-1.24	14	-0.41	5	-0.38
COMLAB	55	-0.39	14	-0.71	17	-0.28	14	-1.24	14	-0.41	5	-0.38
COMLAB	56	-0.13	15	0.65	19	1.83	15	0.70	15	0.54	4	-1.21
COMLAB	59	0.65	16	2.02	18	0.78	15	0.70	15	0.54	5	-0.38
COMLAB	59	0.65	15	0.65	17	-0.28	15	0.70	14	-0.41	5	-0.38
COMLAB	57	0.13	14	-0.71	18	0.78	14	-1.24	15	0.54	5	-0.38
COMLAB	59	0.65	14	-0.71	18	0.78	15	0.70	15	0.54	5	-0.38
COMLAB	57	0.13	14	-0.71	18	0.78	14	-1.24	14	-0.41	4	-1.21
COMLAB	53	-0.90	14	-0.71	17	-0.28	14	-1.24	13	-1.35	4	-1.21
COMLAB	56	-0.23	15	0.11	17	-0.07	14	-0.47	15	0.63	6	0.03
COMLAB	48	-2.19	13	-2.08	15	-2.39	14	-1.24	13	-1.35	5	-0.38
COMLAB	56	0.00	8	-3.00	10	-3.00	6	-3.00	11	-3.00	bld	bld
COMLAB	142	3.00	137	3.00	154	3.00	152	3.00	121	3.00	196	3.00
COMLAB	59	0.59	14	-0.58	17	-0.07	15	0.89	14	-0.80	5	-0.05
COMLAB	52	-1.16	15	0.65	19	1.83	16	2.63	15	0.54	6	0.44
COMLAB	56	-0.13	14	-0.71	18	0.78	15	0.70	15	0.54	6	0.44
COMLAB	56	-0.13	14	-0.71	17	-0.28	15	0.70	15	0.54	6	0.44
COMLAB	50	-1.77	14	-1.12	16	-1.62	14	-1.32	16	1.28	5	-0.15
COMLAB	56	-0.05	15	0.79	17	0.15	15	-0.27	14	-0.22	5	-0.38
COMLAB	57	0.13	15	0.65	18	0.78	14	-1.24	15	0.54	6	0.44
COMLAB	59	0.69	15	1.30	17	-0.23	15	0.23	17	2.88	8	2.11
COMLAB	58	0.39	14	-0.71	17	-0.28	15	0.70	18	3.00	7	1.26
COMLAB	54	-0.64	14	-0.71	17	-0.28	14	-1.24	14	-0.41	5	-0.38
COMLAB	49	-1.91	7	-3.00	9	-3.00	6	-3.00	8	-3.00	<0.0002	-3.00
COMLAB	58	0.39	15	0.65	17	-0.28	15	0.70	15	0.54	5	-0.38
COMLAB	63	1.64	16	1.94	18	0.44	15	0.79	18	3.00	7	1.67
COMLAB	53	-0.90	15	0.65	19	1.83	15	0.70	20	3.00	11	3.00
COMLAB	54	-0.64	15	0.65	16	-1.33	13	-3.00	13	-1.35	5	-0.38
COMLAB	57	0.08	15	1.06	18	1.20	15	0.70	15	0.82	6	0.03
COMLAB	58	0.39	14	-0.71	17	-0.28	14	-1.24	14	-0.41	3	-2.03
COMLAB	61	1.08	16	1.61	18	0.78	15	0.70	16	1.57	6	0.36
COMLAB	52	-1.16	14	-0.71	16	-1.33	15	0.70	13	-1.35	5	-0.38
COMLAB	52	-1.12	15	0.56	18	0.27	15	1.36	15	0.38	5	-0.53
COMLAB	54	-0.64	14	-0.71	16	-1.33	14	-1.24	14	-0.41	6	0.44
COMLAB	56	-0.13	15	0.65	18	0.78	15	0.70	14	-0.41	6	0.44
COMLAB	63	1.68	15	0.65	18	0.78	15	0.70	19	3.00	11	3.00
COMLAB	54	-0.62	12	-3.00	13	-3.00	12	-3.00	12	-2.10	<3.54	bld
COMLAB	42	-3.00	10	-3.00	12	-3.00	11	-3.00	12	-2.05	4	-1.24
MINELAB	66	2.45	24	3.00	26	3.00	22	3.00	20	3.00	17	3.00
MINELAB	59	0.65	9	-3.00	11	-3.00	8	-3.00	13	-1.35	<5	bld
MINELAB	53	-0.90	11	-3.00	14	-3.00	12	-3.00	17	2.01	8	2.44
MINELAB	31	-3.00	8	-3.00	27	3.00	25	3.00	14	-0.41	15	3.00
MINELAB	50	-1.67	13	-2.08	16	-1.33	13	-3.00	14	-0.41	4	-1.21
MINELAB	60	0.80	14	-0.74	16	-0.94	14	-0.43	18	3.00	7	1.32
MINELAB	56	-0.17	14	-1.02	17	-0.12	14	-1.38	14	-0.86	5	-0.59
MINELAB	59	0.73	14	-0.39	17	-0.23	15	0.02	14	-0.36	5	-0.48
MINELAB	57	0.00	15	-0.03	17	-0.28	15	-0.27	15	0.07	6	0.44
MINELAB	58	0.39	15	0.65	18	0.78	15	0.70	18	3.00	8	2.09
MINELAB	52	-1.16	13	-2.08	16	-1.33	14	-1.24	14	-0.41	5	-0.38
MINELAB	57	0.23	15	0.38	18	0.36	15	1.47	14	-0.03	5	-0.14
MINELAB	60	0.98	16	1.97	19	2.31	15	0.12	16	1.19	6	0.38
MINELAB	60	0.80	15	0.52	17	0.20	15	0.66	15	0.32	8	2.10

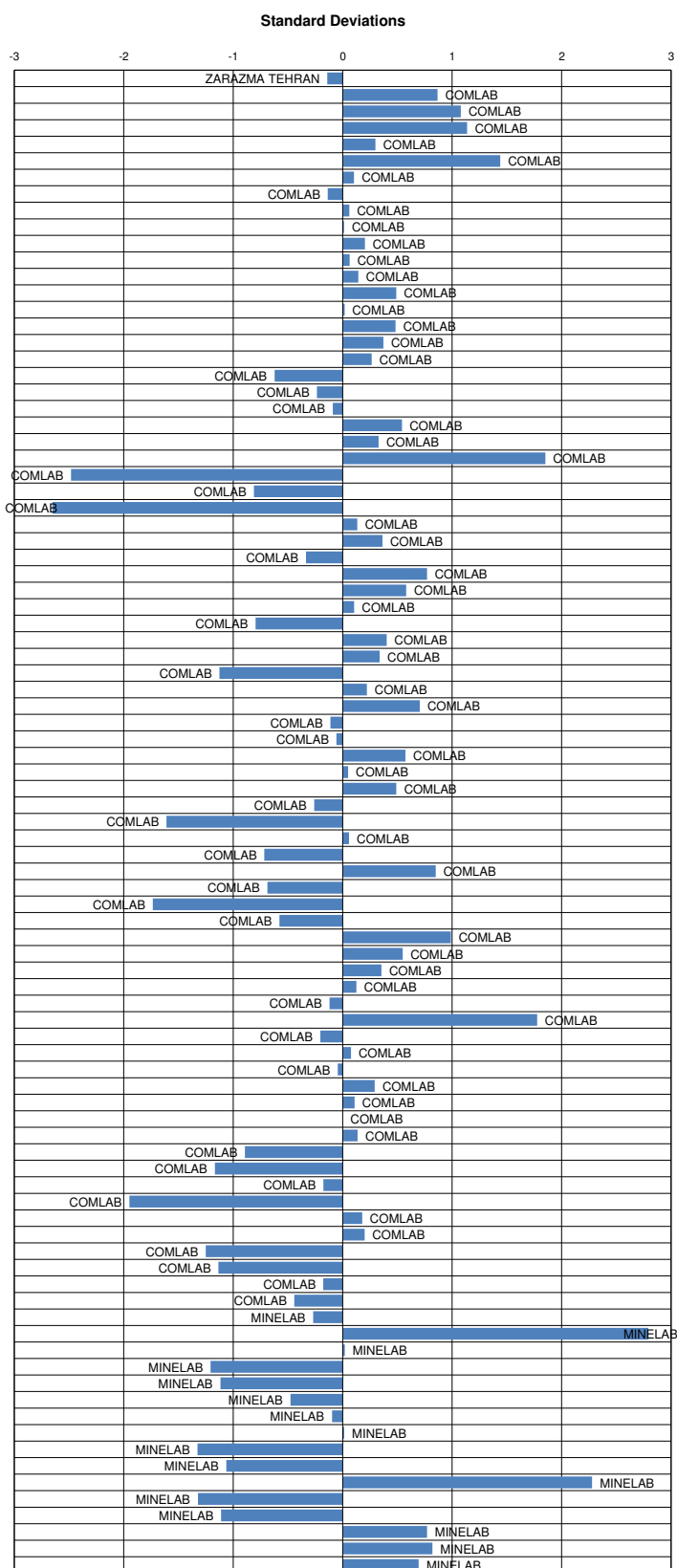
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



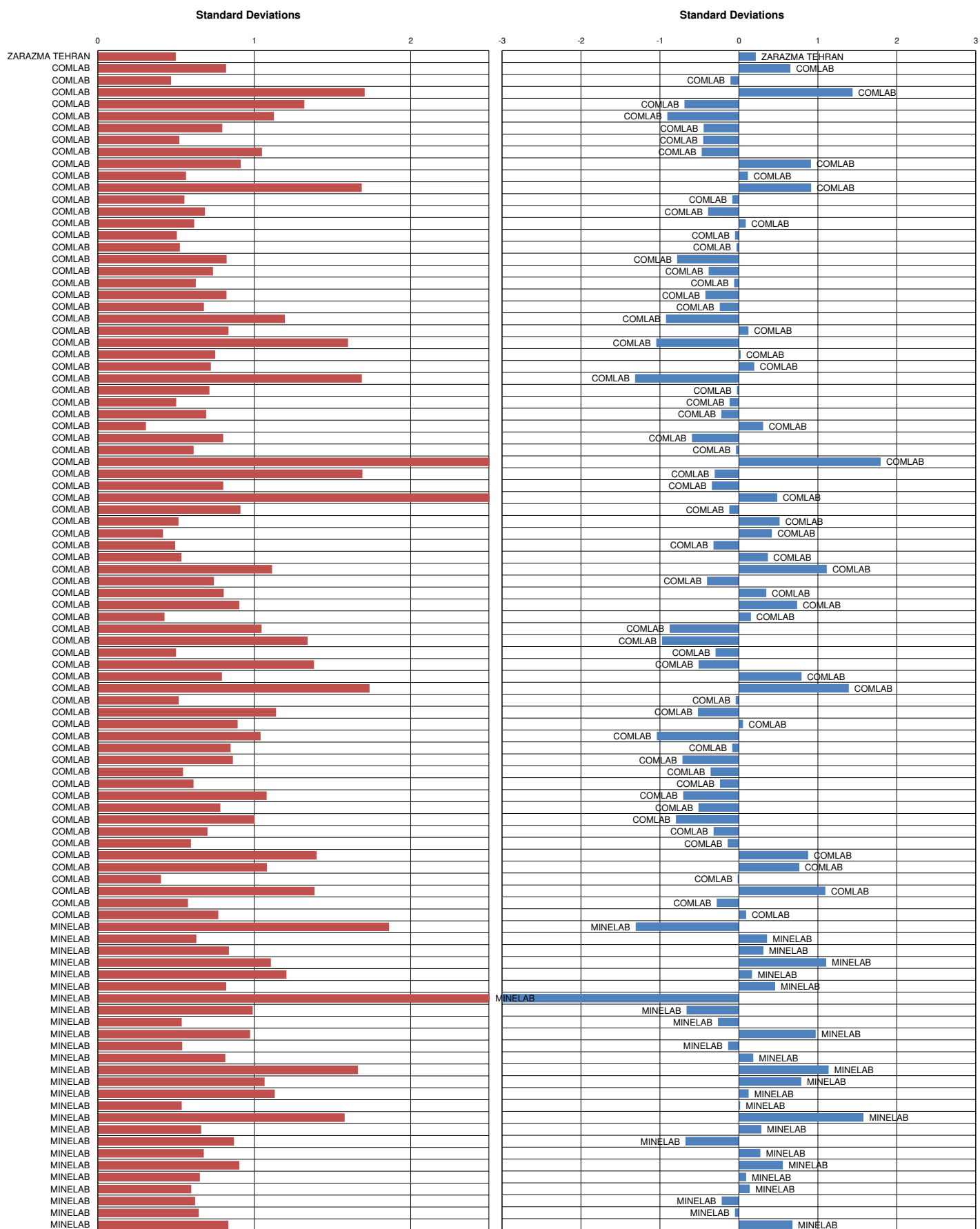


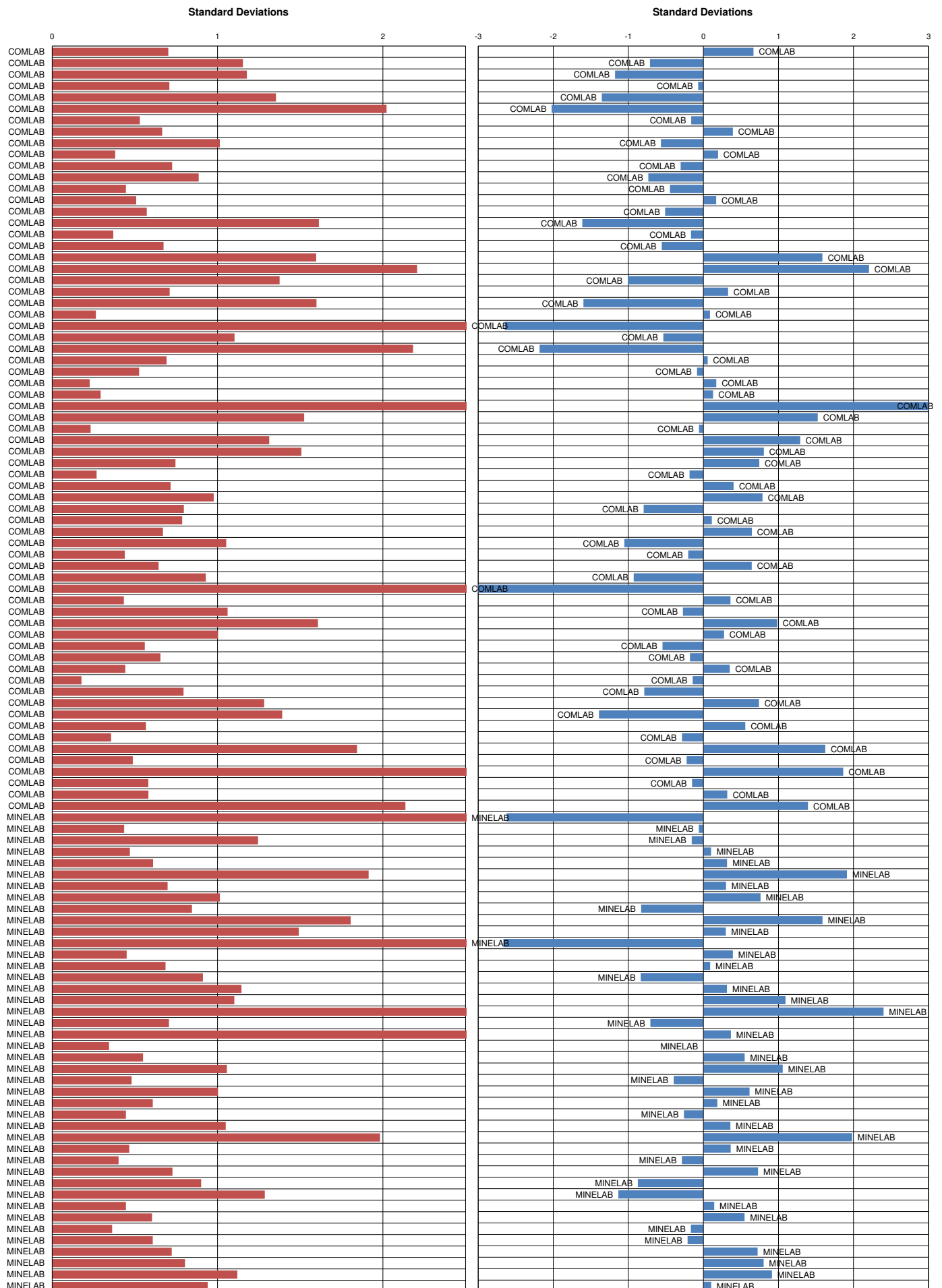


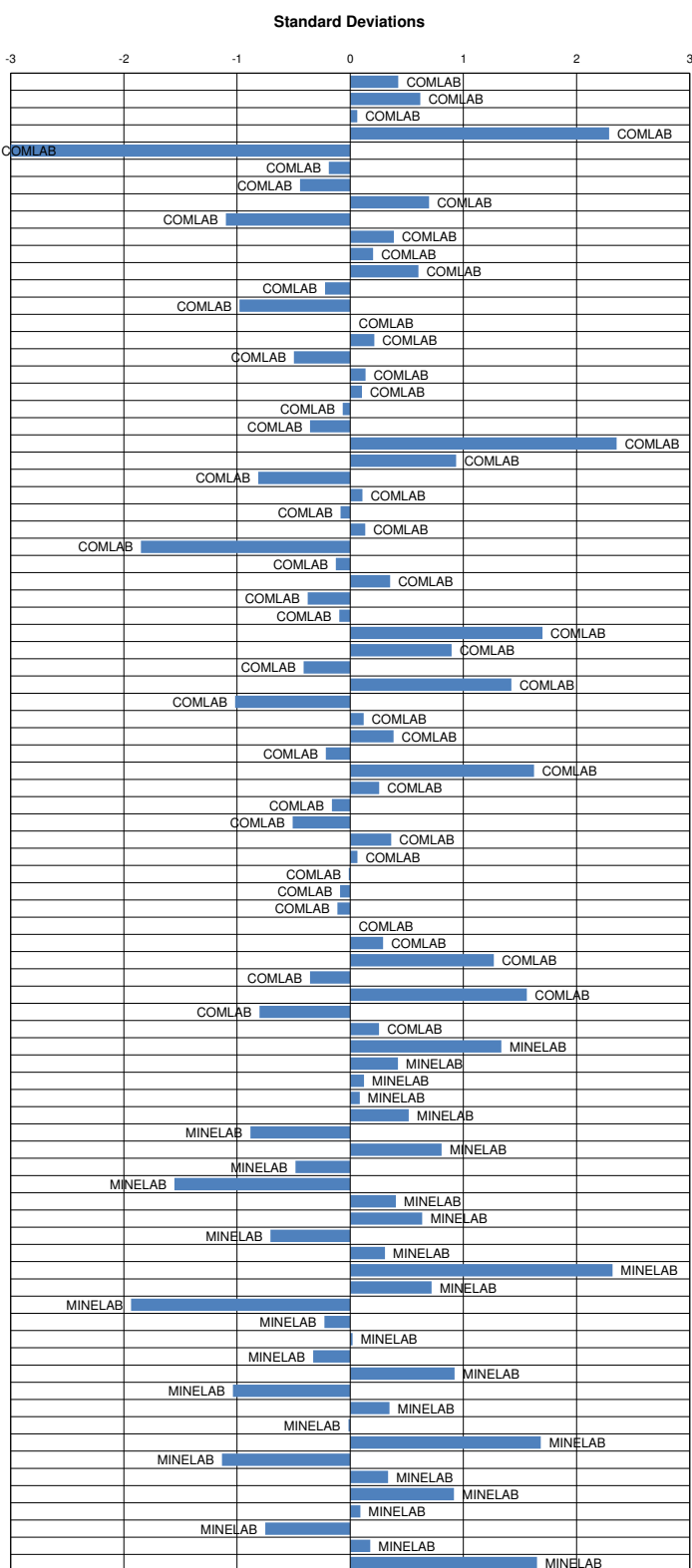












BV ONTARIO - NEUTRON ACTIVATION ANALYSIS REPORT

NAA Results - Gold and Base Metals

		G924-1	G924-2	G924-3	G924-4	G924-5	G924-6	G924-7	G924-8	G924-9	G924-10	GLG924-1	GLG924-2	GLG924-3	GLG924-4	GLG924-5	GBM924-1	GBM924-2	GBM924-3	GBM924-4	GBM924-5	GBM924-6	GBM924-7	GBM924-8	GBM924-9	GBM924-10	GBM924-11	GBM924-12	GBM924-13	GBM924-14	GBM924-15	GBM924-16
Sb	ppm	10.9	10.9	20	4.6	2	13.5	223	0.9	13.5	513	15.5	7.6	0.7	11.8	11.7	1.4	4.5	14.5	15.9	0.3	1.3	11.2	0.4	1.3	311	25.3	202	29.3	0.5	23.3	0.2
As	ppm	333	202	3430	272	59	83	883	5	384	833	613	57	1	351	84	36	280	103	2930	9	10	355	27	14	69	101	329	728	86	3380	3
Ba	ppm	253	278	256	538	<100	319	525	<400	127	188	285	178	664	245	267	<100	562	195	242	268	374	551	<100	386	<100	65500	352	790	<100	<100	2340
Br	ppm	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	<2	4	<2	<2	<2	<2	3	<2	<2	<2	2	<2	<2	<2	2	4	<2
Cd	ppm	<10	<10	<10	<10	<10	<10	<10	<10	<10	43	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	425	<10	15	<10	14	<10	<10
Ce	ppm	26	39	42	47	<5	34	71	<5	20	26	46	41	53	35	44	6	48	43	35	33	36	45	8	40	17	25	42	44	<5	23	203
Cs	ppm	3	5	5	7	<2	3	4	2	12	<2	5	4	2	9	7	73	9	7	5	7	3	5	<2	2	3	3	<2	5	<2	<2	2
Cr	ppm	193	208	25	84	34300	115	87	16100	149	93	36	40	24	85	31	1240	84	45	30	189	95	48	219	85	82	34	25	907	856	157	34
Co	ppm	26	29	16	15	188	102	17	70	37	99	22	25	33	21	13	63	15	19	15	18	9	335	1290	40	69	20	52	175	661	2120	11
Eu	ppm	0.7	0.8	1.1	0.9	<0.5	1.1	<0.5	<0.5	0.7	0.9	0.8	0.9	0.9	0.9	0.9	<0.5	0.9	1	0.7	0.6	0.5	0.8	<0.5	1.1	<0.5	1.4	1.5	0.7	<0.5	<0.5	1.9
Au	ppb	540	175	129	730	1470	2850	2500	1150	5450	23000	46	28	50	120	19	193	739	41	1250	914	18	63	868	4860	272	21	4240	7200	76	707	39
Hf	ppm	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	7	<5	<5	5	<5	<5	<5	<5	<5	11	8
Ir	ppb	<50	<50	<50	<50	89	<50	<50	7900	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	154	<50	<50	<50	<50	<50	<50	383	<50
Fe	%	6.2	6.8	3.5	3.6	9.1	7.5	4.6	8	7.1	8.8	4.2	4.8	4.1	5.8	3.8	3.5	3.7	4.7	4.4	4.1	8.3	3.4	37	5.9	3.4	8.5	7.8	9.3	17.3	20.3	3.4
La	ppm	13	19	21	25	3	20	41	2	10	17	23	21	34	18	22	3	25	23	17	19	18	27	6	21	6	15	21	24	2	5	110
Lu	ppm	0.2	0.3	0.3	0.2	0.1	0.3	0.3	0.3	0.2	0.4	0.3	0.3	<0.2	0.2	0.3	<0.2	0.3	0.3	0.3	0.2	0.2	0.3	<0.2	0.4	<0.2	<0.2	0.5	0.3	<0.2	<0.2	0.7
Mo	ppm	<10	<10	<10	<10	<10	53	13	<10	<10	73	<10	<10	74	<10	<10	<10	<10	<10	<10	43	<10	17	<10	24	<10	<10	16	<10	<10	<10	127
Ni	ppm	<100	<100	<100	<100	2720	<100	<100	1040	254	300	<100	<100	<100	<100	<100	3000	<100	<100	<100	<100	<100	180	24500	380	<100	<100	<100	2250	29000	7970	144
Rb	ppm	72	59	73	102	<20	85	83	<20	198	90	103	88	62	109	82	2030	102	100	56	184	101	151	<25	98	45	32	75	63	<20	<35	102
Sm	ppm	2.5	3.3	3.5	3.7	0.5	4.1	5.1	0.5	2.6	3.5	3.9	3.5	2.8	3	3.7	0.4	3.8	3.4	2.8	2.8	2.3	4.1	1.1	4.2	1.3	2.2	5.1	3.7	0.5	0.5	12.4
Sc	ppm	15.6	17.1	10.2	10.2	11	21.1	5.5	28.7	16.9	19.8	12	11.2	5.1	12.6	11.5	6	10.3	12.7	9.8	11.9	12.7	10.7	9.4	19.6	12.1	3.3	22.4	14.2	8.3	18.3	8.2
Se	ppm	<10	<10	<10	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	11	39	<10
Ag	ppm	<5	<5	<5	<5	7	36	172	13	7	37	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	32	10	14	8	<5	12	160
Na	%	0.65	0.72	0.47	0.92	0.11	2.14	1.3	0.12	0.61	1.76	0.41	1.62	2.68	0.23	1.23	1.54	0.94	0.87	0.79	2.43	1.57	2.27	0.36	2.25	0.1	0.12	1.96	0.63	0.27	0.01	2.47
Ta	ppm	<2	<2	<2	<2	<2	3	<2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	2	2
Te	ppm	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	23	<20	
Tb	ppm	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	1	<1	<1	<1	<1	<1	1	<1	<1	1	<1	<1	<1	1
Th	ppm	4.9	5	6.6	6.6	0.7	11.4	12.3	<0.5	4.1	9	6.2	5.8	10.6	5.3	7.2	1.4	6.1	5.8	4.3	6.6	47.5	21.9	0.6	12.1	<1.1	5.2	11.7	6.6	<0.5	75.6	38.8
Sn	ppm	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
W	ppm	3	2	7	89	4	5	4	4	12	<4	4	3	7	3	4	<2	89	6	6	37	2	<2	5	<2	8	116	<3	17	<2	<3	6
U	ppm	1	1	<1	2	1	6	4	<1	2	7	2	1	5	1	2	1	2	2	1	4	9	10	<1	7	2	1	6	2	<1	10	4
Yb	ppm	1.5	1.8	1.9	1.6	<0.5	2.3	1.6	0.6	1.6	2.4	1.6	1.6	0.8	1.5	1.8	<0.5	1.5	1.6	1.6	1	1.3	1.9	<0.5	2.5	0.6	0.7	2.8	1.7	<0.5	<0.5	3.9
Zn	ppm	<200	<200	<200	<200	362	883	<200	<200	606	21400	231	<200	<200	2270	<200	<200	<200	<200	420	<200	<200	340	<200	1210	108500	1020	5520	7400	250	<200	3600
Zr	ppm	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	

SUMMARY REPORT OF INDIVIDUAL LABORATORY PERFORMANCE
Zarazma Minerals Studies Company

GOLD SAMPLES

Analysis	Samples Sent	Reported	Number of Outliers
Fire Assay	Yes (10)	Yes	1
Aqua Regia	Yes (10)	Yes	0
Low Level	Yes (5)	Yes	0

Au & Ag IN CARBON SAMPLES

The laboratory were not sent any samples for Au & Ag in carbon analysis.

Analysis	Reported	Number of Outliers
Gold	-	-
Silver	-	-

BASE METAL SAMPLES

10 Base Metal samples were sent to the laboratory for analysis by Total and / or Partial methods.

Analysis	Total Digest		Partial Digest	
	Reported	Number of Outliers	Reported	Number of Outliers
Silver	Yes	0	No	-
Copper	Yes	0	No	-
Lead	Yes	0	No	-
Zinc	Yes	0	No	-
Nickel	Yes	0	No	-
Arsenic	Yes	1	No	-
Cobalt	Yes	1	No	-

ORE GRADE BASE METAL SAMPLES

6 Ore Grade Base Metal samples were sent to the laboratory for analysis.

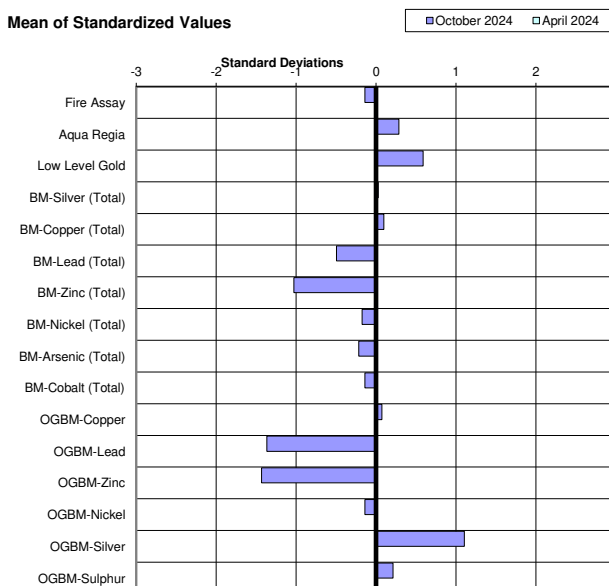
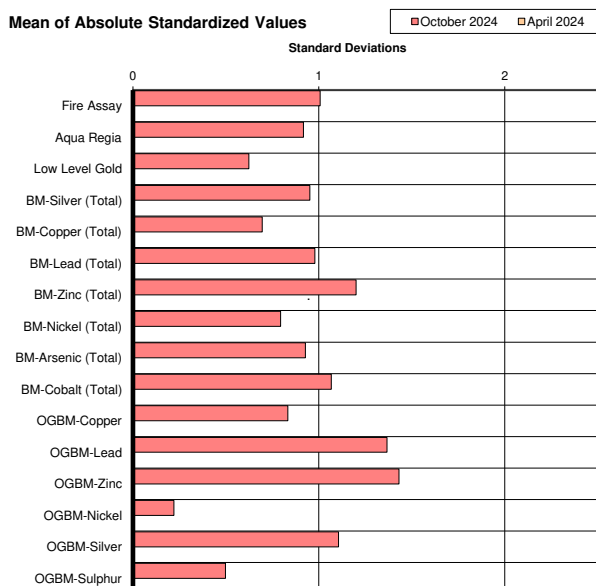
Analysis	Reported	Number of Outliers
Copper	Yes	0
Lead	Yes	0
Zinc	Yes	0
Nickel	Yes	0
Silver	Yes	1
Sulphur	Yes	0

SULPHUR SAMPLES

The laboratory were not sent any Sulphur samples for analysis.

Analysis	Reported	Number of Outliers
Sulphur	-	-
Carbon	-	-

ERROR GRAPHS



FURTHER INFORMATION

The samples analysed in this survey are available for purchase. Please contact us or visit www.geostats.com.au for a complete listing of available materials.

To discuss this report, please contact us on +618 9314 2566, or stuart.romero@geostats.com.au