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Certificate of Participation

This is to certify that

Zarazma Minerals Studies Company

has participated in the April 2018
Geostats Survey of International Laboratories

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Geostats Laboratory Survey
April 2018

Prepared for
Zarazma Minerals Studies Company

Confidential

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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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REPORT ON LABORATORY SURVEY – April 2018

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 223 laboratories was conducted during April 2018. 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. Becquerel Canada performed Neutron Activation Analysis on all samples, reporting a gold + 33 element analysis which has been included at the end of this report. Maxxam Ontario can be contacted through Debbie D'Alessandro at DD'Alessandro@maxxam.ca

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 29% and carbon values up to 0.8%.

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	TITR	Titration
FUS	Fusion	XRF	X-Ray Fluorescence
GF	Graphite Furnace		
IH	In House Method		
MICR	Microwave		
NAA	Neutron Activation Analysis		
PP	Pressed Powder		
PR	Pre-Roast		
TITR	Titration		
VOL	Volumetric		

CONTENTS

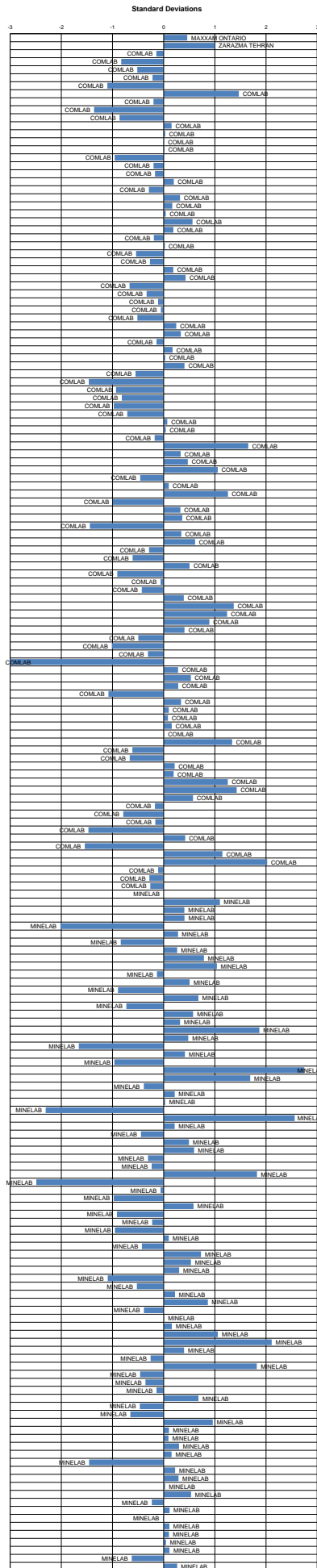
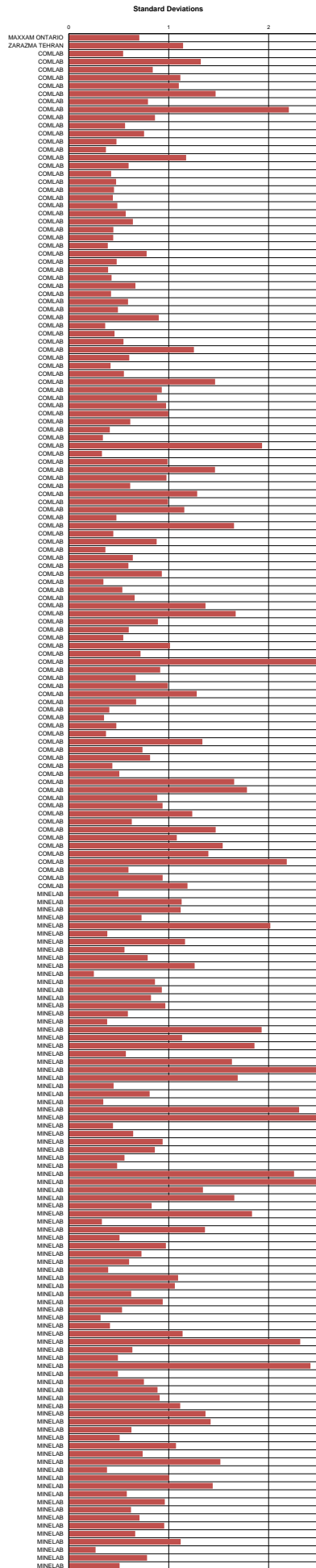
RESULTS OF ANALYSES PRESENTED AS TABLES AND PLOTS

GOLD SAMPLES	Pages
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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
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FA50 Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

Standard Reference	G31E-1	G31E-2	G31E-3	G31E-4	G31E-5	G31E-6	G31E-7	G31E-8	G31E-9	G31E-10	Method	Reading
MEAN (ppm)	0.04	0.07	0.03	0.20	0.13	0.10	0.01	0.03	0.05	0.17		
STDEV (ppm)	0.01	0.01	0.03	0.03	0.03	0.01	0.01	0.03	0.05	0.03		
95%CI (ppm)	0.04	0.07	0.03	0.20	0.13	0.10	0.01	0.03	0.05	0.17		
95%CI (%)	0.62%	0.54%	0.67%	0.50%	0.48%	0.54%	0.72%	0.69%	0.63%	0.55%		
MIN (ppm)	0.02	0.05	0.02	0.10	0.07	0.05	0.01	0.02	0.04	0.10		
MAX (ppm)	0.04	0.07	0.03	0.20	0.13	0.10	0.01	0.03	0.05	0.17		
ISE (ppm)	0.06	0.07	0.03	0.20	0.13	0.10	0.01	0.03	0.05	0.17		
COUNT	377	377	377	377	377	377	377	377	377	377		

Standard Reference	G31E-1	G31E-2	G31E-3	G31E-4	G31E-5	G31E-6	G31E-7	G31E-8	G31E-9	G31E-10	Method	Reading
LAB REFERENCE	ASSAY 1 2-score	ASSAY 2 2-score	ASSAY 3 2-score	ASSAY 4 2-score	ASSAY 5 2-score	ASSAY 6 2-score	ASSAY 7 2-score	ASSAY 8 2-score	ASSAY 9 2-score	ASSAY 10 2-score		
MACAZAN DUTASTO	1.07 0.67	2.05 0.12	0.72 0.01	0.30 1.86	0.10 1.59	0.60 1.00	0.31 0.02	0.78 0.22	1.17 0.36	0.80 0.31	NAE	
ZARZAMA THERAN	0.44 0.77	0.24 0.26	0.17 0.01	0.18 0.83	0.10 0.70	0.10 0.10	0.01 0.01	0.03 0.03	0.05 0.05	0.17 0.16	ER	
COMLAB	0.33 0.34	2.08 0.52	0.73 0.32	0.69 1.19	0.83 0.46	0.88 0.19	0.32 1.00	0.76 0.87	1.16 0.16	0.53 0.28	FA	AAS/GRV
COMLAB	1.06 0.34	1.98 0.62	0.66 1.86	0.61 0.40	3.35 3.00	0.73 0.32	0.31 0.30	0.79 0.10	1.16 0.16	0.39 1.10	FA	AAS
COMLAB	0.88 1.49	1.84 1.36	0.70 0.27	0.33 2.00	4.07 1.35	2.81 1.13	0.29 1.32	0.77 0.52	1.09 1.22	0.58 0.01	FA	AAS
COMLAB	0.99 1.24	1.86 0.55	0.69 0.99	0.55 0.99	0.55 0.99	0.55 0.99	0.75 1.07	0.12 0.66	0.87 0.04	0.87 0.04	FA	AAS
COMLAB	1.10 1.26	0.15 1.47	0.77 1.57	0.06 0.65	4.12 1.75	0.75 0.63	0.35 3.00	0.83 1.40	1.25 2.00	0.76 1.06	FA	AAS
COMLAB	1.03 0.34	1.86 1.09	0.70 0.88	0.62 0.54	1.83 0.56	2.80 1.04	0.31 0.44	0.81 0.71	1.19 0.77	0.48 0.75	FA	ER
COMLAB	0.85 0.18	0.07 0.39	0.72 0.01	0.17 0.30	0.19 0.30	0.19 0.30	0.29 1.11	0.74 1.02	1.11 0.87	0.51 1.30	FA	AAS
COMLAB	1.02 0.47	1.95 1.22	0.87 1.45	0.30 0.15	0.85 0.40	0.81 0.80	0.29 1.11	0.74 1.02	1.11 0.87	0.52 0.34	FA	AAS
COMLAB	0.93 0.34	1.11 0.13	0.71 0.30	0.18 0.43	0.18 0.43	0.18 0.43	0.31 0.30	0.81 0.75	1.17 0.36	0.48 0.61	FA	AAS
COMLAB	1.11 1.49	0.63 0.15	0.72 0.01	0.60 1.36	3.77 1.04	2.67 0.29	0.31 0.30	0.81 0.75	1.17 0.36	0.45 1.93	FA	AAS
COMLAB	0.93 0.34	2.11 0.83	0.70 0.61	0.02 0.45	3.86 0.32	2.63 0.70	0.32 0.79	0.78 0.09	1.17 0.26	0.53 0.28	FA	AAS
COMLAB	0.85 0.18	1.90 1.30	0.72 0.01	0.86 0.35	3.72 1.43	2.63 0.70	0.29 1.11	0.74 1.02	1.08 1.48	0.76 1.08	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.69 0.93	0.97 0.30	3.88 0.32	2.66 0.39	0.29 1.11	0.74 1.02	1.16 0.16	0.60 0.13	FA	AAS
COMLAB	1.04 0.12	2.08 0.52	0.70 0.61	0.88 0.25	4.03 1.03	2.81 1.14	0.30 0.41	0.79 0.10	1.17 0.36	0.61 0.19	FA	ICP
COMLAB	1.06 0.34	0.10 0.51	0.72 0.01	0.77 0.41	1.74 0.48	1.12 0.88	0.41 0.79	0.10 0.10	1.17 0.36	0.34 0.43	FA	AAS
COMLAB	1.07 0.57	0.61 0.42	0.72 0.01	0.19 1.30	0.66 1.27	0.69 0.08	0.31 0.16	0.73 0.06	1.15 0.05	0.66 0.43	FA	AAS
COMLAB	1.03 0.34	2.05 0.12	0.70 0.61	0.68 0.75	4.00 0.79	2.74 0.43	0.30 0.41	0.78 0.22	1.16 0.16	0.75 1.02	FA	AAS
COMLAB	1.07 0.57	0.68 0.55	0.69 0.93	0.83 0.93	3.75 1.19	2.67 0.29	0.32 0.95	0.80 0.36	1.15 0.05	0.54 0.32	FA	AAS
COMLAB	1.12 1.71	2.10 0.73	0.73 0.32	0.88 0.25	3.97 0.56	2.65 0.39	0.31 0.30	0.73 0.10	1.22 1.39	0.48 0.61	FA	ER
COMLAB	1.06 0.34	0.07 0.74	0.74 0.63	0.82 0.25	3.86 0.32	2.66 0.39	0.30 0.41	0.77 0.05	1.12 0.66	0.63 0.31	FA	AAS
COMLAB	1.05 0.11	2.08 0.52	0.69 0.93	0.83 0.25	3.84 0.32	2.64 0.39	0.30 0.41	0.77 0.05	1.12 0.66	0.63 0.31	FA	AAS
COMLAB	1.05 0.11	2.08 0.52	0.69 0.93	0.83 0.25	3.84 0.32	2.64 0.39	0.30 0.41	0.77 0.05	1.12 0.66	0.63 0.31	FA	AAS
COMLAB	1.02 0.47	0.68 0.52	0.70 0.61	0.84 0.45	3.87 0.32	2.75 0.63	0.30 0.41	0.78 0.22	1.12 0.66	0.48 0.57	FA	AAS
COMLAB	1.06 0.34	2.07 0.39	0.73 0.32	0.85 0.24	4.02 0.92	2.70 0.62	0.30 0.41	0.78 0.22	1.16 0.16	0.70 0.72	FA	AAS
COMLAB	1.03 0.34	1.99 0.69	0.70 0.61	0.71 1.10	3.86 0.32	2.66 0.39	0.29 1.11	0.77 0.05	1.11 0.87	0.46 0.69	FA	AAS
COMLAB	1.04 0.12	0.06 1.09	0.72 0.01	0.41 0.41	3.84 0.32	2.66 0.39	0.31 0.30	0.79 0.10	1.15 0.05	0.49 0.51	FA	AAS
COMLAB	1.04 0.12	2.07 0.39	0.72 0.02	0.88 0.25	4.02 0.95	2.67 0.29	0.32 1.00	0.74 1.06	1.09 1.38	0.59 0.68	FA	AAS/GRV
COMLAB	1.02 0.47	2.04 0.01	0.69 0.26	0.88 0.75	3.91 0.58	2.67 0.29	0.32 0.93	0.80 0.42	1.12 0.60	0.51 0.40	FA	AAS
COMLAB	1.06 0.34	0.90 0.90	0.70 0.61	0.74 0.93	0.74 0.93	0.74 0.93	0.29 1.11	0.74 1.02	1.16 0.16	0.42 0.04	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
COMLAB	1.02 0.47	0.68 0.52	0.70 0.61	0.84 0.45	3.87 0.32	2.75 0.63	0.30 0.41	0.78 0.22	1.12 0.66	0.48 0.57	FA	AAS
COMLAB	1.06 0.34	2.07 0.39	0.73 0.32	0.85 0.24	4.02 0.92	2.70 0.62	0.30 0.41	0.78 0.22	1.16 0.16	0.70 0.72	FA	AAS
COMLAB	1.03 0.34	1.99 0.69	0.70 0.61	0.71 1.10	3.86 0.32	2.66 0.39	0.29 1.11	0.77 0.05	1.11 0.87	0.46 0.69	FA	AAS
COMLAB	1.04 0.12	0.06 1.09	0.72 0.01	0.41 0.41	3.84 0.32	2.66 0.39	0.31 0.30	0.79 0.10	1.15 0.05	0.49 0.51	FA	AAS
COMLAB	1.04 0.12	2.07 0.39	0.72 0.02	0.88 0.25	4.02 0.95	2.67 0.29	0.32 1.00	0.74 1.06	1.09 1.38	0.59 0.68	FA	AAS/GRV
COMLAB	1.02 0.47	2.04 0.01	0.69 0.26	0.88 0.75	3.91 0.58	2.67 0.29	0.32 0.93	0.80 0.42	1.12 0.60	0.51 0.40	FA	AAS
COMLAB	1.06 0.34	0.90 0.90	0.70 0.61	0.74 0.93	0.74 0.93	0.74 0.93	0.29 1.11	0.74 1.02	1.16 0.16	0.42 0.04	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
COMLAB	1.02 0.47	0.68 0.52	0.70 0.61	0.84 0.45	3.87 0.32	2.75 0.63	0.30 0.41	0.78 0.22	1.12 0.66	0.48 0.57	FA	AAS
COMLAB	1.06 0.34	2.07 0.39	0.73 0.32	0.85 0.24	4.02 0.92	2.70 0.62	0.30 0.41	0.78 0.22	1.16 0.16	0.70 0.72	FA	AAS
COMLAB	1.03 0.34	1.99 0.69	0.70 0.61	0.71 1.10	3.86 0.32	2.66 0.39	0.29 1.11	0.77 0.05	1.11 0.87	0.46 0.69	FA	AAS
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COMLAB	1.02 0.47	2.04 0.01	0.69 0.26	0.88 0.75	3.91 0.58	2.67 0.29	0.32 0.93	0.80 0.42	1.12 0.60	0.51 0.40	FA	AAS
COMLAB	1.06 0.34	0.90 0.90	0.70 0.61	0.74 0.93	0.74 0.93	0.74 0.93	0.29 1.11	0.74 1.02	1.16 0.16	0.42 0.04	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
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COMLAB	1.06 0.34	2.07 0.39	0.73 0.32	0.85 0.24	4.02 0.92	2.70 0.62	0.30 0.41	0.78 0.22	1.16 0.16	0.70 0.72	FA	AAS
COMLAB	1.03 0.34	1.99 0.69	0.70 0.61	0.71 1.10	3.86 0.32	2.66 0.39	0.29 1.11	0.77 0.05	1.11 0.87	0.46 0.69	FA	AAS
COMLAB	1.04 0.12	0.06 1.09	0.72 0.01	0.41 0.41	3.84 0.32	2.66 0.39	0.31 0.30	0.79 0.10	1.15 0.05	0.49 0.51	FA	AAS
COMLAB	1.04 0.12	2.07 0.39	0.72 0.02	0.88 0.25	4.02 0.95	2.67 0.29	0.32 1.00	0.74 1.06	1.09 1.38	0.59 0.68	FA	AAS/GRV
COMLAB	1.02 0.47	2.04 0.01	0.69 0.26	0.88 0.75	3.91 0.58	2.67 0.29	0.32 0.93	0.80 0.42	1.12 0.60	0.51 0.40	FA	AAS
COMLAB	1.06 0.34	0.90 0.90	0.70 0.61	0.74 0.93	0.74 0.93	0.74 0.93	0.29 1.11	0.74 1.02	1.16 0.16	0.42 0.04	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
COMLAB	1.05 0.11	2.09 0.66	0.74 0.63	0.97 0.30	3.97 0.56	2.68 0.39	0.30 0.41	0.79 0.10	1.17 0.36	0.65 0.43	FA	AAS
COMLAB	1.02 0.47	0.68 0.52										

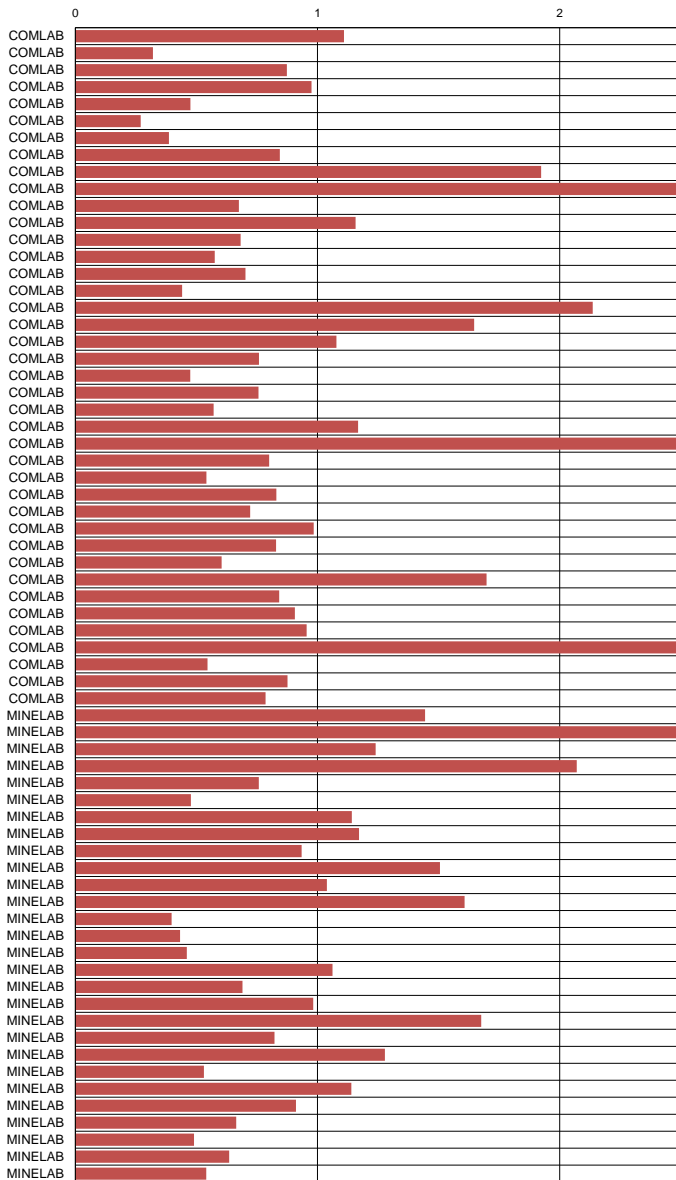


Aqua Regia Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

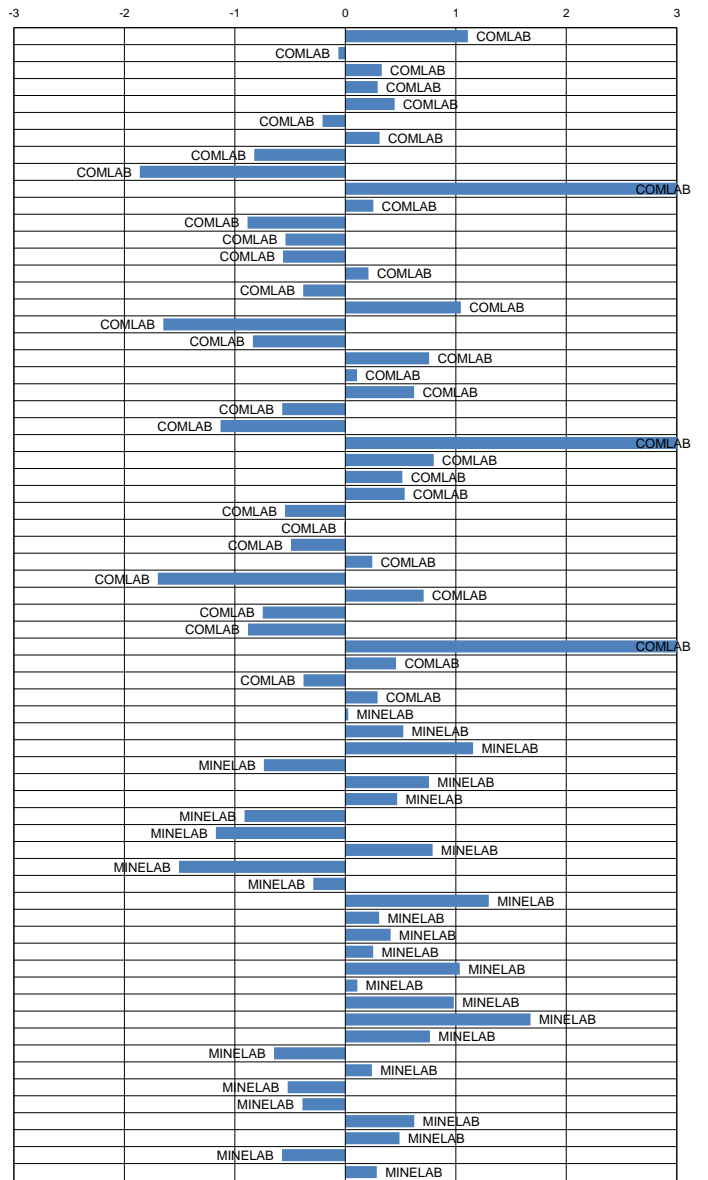
Standard Reference	G318-1	G318-2	G318-3	G318-4	G318-5	G318-6	G318-7	G318-8	G318-9	G318-10
MEAN (ppm)	1.04	2.00	0.71	5.79	3.85	2.67	0.30	0.77	1.13	4.50
STDEV (ppm)	0.06	0.10	0.03	0.27	0.15	0.16	0.02	0.05	0.05	0.19
95% CI (ppm)	0.01	0.03	0.01	0.07	0.04	0.04	0.01	0.01	0.01	0.05
95% CI (%)	1.43%	1.32%	1.17%	1.24%	1.04%	1.59%	1.80%	1.64%	1.22%	1.13%
MIN (ppm)	0.90	1.74	0.64	5.28	3.53	2.33	0.25	0.65	1.01	4.08
MEDIAN (ppm)	1.05	2.01	0.71	5.79	3.85	2.67	0.30	0.77	1.12	4.50
MAX (ppm)	1.18	2.19	0.78	6.39	4.15	3.06	0.33	0.87	1.22	4.95
IQR (ppm)	0.07	0.15	0.04	0.36	0.17	0.19	0.03	0.07	0.07	0.19
COUNT	55	56	52	54	53	56	52	54	55	55

Standard Reference	G318-1		G318-2		G318-3		G318-4		G318-5		G318-6		G318-7		G318-8		G318-9		G318-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	1.13	1.71	2.16	1.61	0.72	0.29	6.07	1.04	4.12	1.86	2.70	0.18	0.30	0.19	0.82	1.17	1.18	1.04	4.88	1.99	NAA	MS
COMLAB	1.07	0.63	1.97	-0.29	0.72	0.29	5.75	-0.16	3.81	-0.24	2.66	-0.07	0.29	-0.32	0.77	0.10	1.14	0.27	4.34	-0.84	PR,AR	MS
COMLAB	1.00	-0.63	2.05	0.51	0.69	-0.69	6.68	3.00	3.80	-0.31	2.86	1.18	0.29	-0.32	0.73	-0.76	1.13	0.07	4.74	1.26	AR	AAS
COMLAB	1.05	0.27	2.02	0.21	0.73	0.62	3.88	-3.00	4.81	3.00	2.66	-0.07	0.30	0.24	0.79	0.42	1.18	0.95	>5.00	ald	AR	AAS
COMLAB	1.07	0.63	2.09	0.91	0.71	-0.04	5.98	0.71	3.83	-0.11	2.84	1.05	0.31	0.71	0.77	0.10	1.15	0.46	4.51	0.05	AR	MS
COMLAB	1.03	-0.09	1.97	-0.29	0.71	-0.04	5.74	-0.19	3.73	-0.78	2.68	0.06	0.29	-0.32	0.74	-0.54	1.12	-0.12	4.55	0.26	AR	MS
COMLAB	1.03	-0.09	1.97	-0.29	0.73	0.62	5.90	0.41	3.87	0.17	2.72	0.30	0.30	0.19	0.79	0.53	1.14	0.27	4.69	1.00	AR	MS
COMLAB	1.01	-0.45	1.86	-1.39	0.68	-1.02	5.45	-1.28	3.68	-1.12	2.42	-1.56	0.29	-0.32	0.77	0.10	1.10	-0.51	4.37	-0.88	AR	MS
COMLAB	0.78	-3.00	1.86	-1.39	0.45	-3.00	5.82	0.11	3.73	-0.78	2.39	-1.75	0.13	-3.00	0.58	-3.00	0.86	-3.00	4.54	0.21	AR	ES
COMLAB	1.33	3.00	2.50	3.00	0.94	3.00	8.03	3.00	5.21	3.00	3.41	3.00	0.56	3.00	1.07	3.00	1.47	3.00	6.17	3.00	AR	DIBK
COMLAB	1.03	-0.09	2.02	0.21	0.72	0.29	5.51	-1.06	3.91	0.44	2.98	1.92	0.28	-0.84	0.79	0.53	1.12	-0.12	4.74	1.26	AR	MS
COMLAB	0.96	-1.33	1.86	-1.37	0.59	-3.00	5.96	0.63	3.93	0.56	2.70	0.17	0.27	-1.42	0.66	-2.36	1.09	-0.65	4.48	-0.09	PR,AR	MS
COMLAB	0.97	-1.25	1.93	-0.69	0.66	-1.81	5.91	0.44	3.79	-0.38	2.64	-0.19	0.29	-0.58	0.74	-0.52	1.09	-0.70	4.55	0.26	AR	MS
COMLAB	0.99	-0.85	1.94	-0.59	0.67	-1.35	5.76	-0.12	3.77	-0.51	2.68	0.06	0.28	-0.78	0.75	-0.44	1.08	-0.90	4.47	-0.16	AR	MS
COMLAB	1.02	-0.27	1.95	-0.49	0.75	1.28	5.84	0.18	3.86	0.10	2.59	-0.50	0.30	3.00	0.72	-0.97	1.12	-0.12	4.48	-0.11	AR	MS
COMLAB	1.00	-0.63	1.96	-0.39	0.67	-1.35	5.78	-0.04	3.85	0.03	2.62	-0.32	0.28	-0.84	0.75	-0.33	1.14	0.27	4.46	-0.21	AR	AAS
COMLAB	1.21	3.00	2.09	0.91	0.85	3.00	5.28	-1.92	3.77	-0.51	2.54	-0.81	0.48	3.00	1.63	3.00	1.33	3.00	4.08	-2.21	AR	MS
COMLAB	0.96	-1.36	1.78	-2.19	0.64	-2.34	5.40	-1.47	3.62	-1.53	2.35	-2.00	0.28	-0.84	0.69	-1.61	1.04	-1.67	4.22	-1.47	PR,AR	DIBK
COMLAB	0.93	-1.90	1.92	-0.79	0.71	-0.04	5.91	0.44	3.85	0.03	2.60	-0.44	0.26	-1.86	0.64	-2.68	1.03	-1.87	4.64	0.73	FA	GRAV
COMLAB	1.08	0.81	2.14	1.41	0.73	0.62	6.11	1.19	3.94	0.64	2.83	0.99	0.30	0.19	0.77	0.10	1.14	0.27	4.76	1.36	AR	MS
COMLAB	1.06	0.45	2.08	0.81	0.70	-0.36	5.77	-0.08	3.95	0.71	2.65	-0.13	0.30	0.19	0.80	0.74	1.08	-0.90	4.43	-0.37	AR	AAS
COMLAB	1.09	0.99	2.07	0.71	0.70	-0.36	6.09	1.12	3.84	-0.04	2.83	0.99	0.31	0.71	0.81	0.95	1.20	1.43	4.45	-0.26	AR	DIBK
COMLAB	1.01	-0.45	1.91	-0.89	0.67	-1.35	5.67	-0.46	3.84	-0.04	2.55	-0.75	0.29	-0.32	0.72	-0.97	1.11	-0.32	4.47	-0.16	AR	AAS
COMLAB	0.91	-2.26	1.96	-0.39	0.67	-1.35	5.75	-0.16	3.64	-1.39	2.55	-0.75	0.30	0.19	0.68	-1.83	1.04	-1.67	4.18	-1.68	AR	AAS
COMLAB	2.58	3.00	5.10	3.00	1.92	3.00	13.85	3.00	9.35	3.00	6.41	3.00	0.75	3.00	1.92	3.00	2.83	3.00	10.80	3.00	AR	MS
COMLAB	1.06	0.45	2.11	1.11	0.72	0.29	6.13	1.27	4.05	1.39	2.78	0.68	0.30	0.19	0.77	0.10	1.17	0.85	4.82	1.68	AR	MS
COMLAB	1.06	0.45	2.05	0.51	0.73	0.62	5.86	0.26	3.90	0.37	2.85	1.11	0.31	0.71	0.80	0.74	1.12	-0.12	4.60	0.52	AR	ICP
COMLAB	1.06	0.45	1.94	-0.59	0.75	1.28	6.13	1.27	3.92	0.50	2.53	-0.88	0.32	1.22	0.81	0.95	1.17	0.85	4.56	0.31	AR	AAS
COMLAB	1.05	0.23	1.98	-0.24	0.70	-0.40	5.66	-0.51	3.79	-0.40	2.78	0.65	0.29	-0.27	0.72	-0.95	1.02	-2.06	4.21	-1.51	AR	AAS
COMLAB	1.09	0.99	1.91	-0.89	0.75	1.28	5.58	-0.79	4.05	1.39	2.55	-2.00	0.32	1.22	0.76	-0.12	1.12	-0.12	4.30	-1.05	AR	AAS
COMLAB	1.02	-0.27	2.01	0.11	0.69	-0.69	5.33	-1.73	3.58	-1.80	2.76	0.55	0.31	0.71	0.78	0.31	1.11	-0.32	4.16	-1.79	AR	AAS
COMLAB	1.11	1.35	2.10	1.01	0.71	-0.04	5.84	0.18	3.64	-1.39	2.72	0.30	0.30	0.19	0.80	0.74	1.15	0.46	4.43	-0.37	AR	DIBK
COMLAB	0.76	-3.00	1.74	-2.59	0.71	-0.04	5.56	-0.87	3.35	-3.00	2.35	-2.00	0.25	-2.38	0.71	-1.18	1.10	-0.51	4.23	-1.42	AR	DIBK,AAS
COMLAB	1.08	0.81	2.13	1.31	0.73	0.62	5.77	-0.08	4.07	1.52	2.77	0.62	0.31	0.71	0.80	0.74	1.20	1.43	4.39	-0.58	AR	AAS
COMLAB	1.04	0.09	1.82	-1.79	0.66	-1.68	5.63	-0.61	3.65	-1.33	2.65	-0.13	0.31	0.71	0.69	-1.61	1.09	-0.70	4.42	-0.42	AR	DIBK,AAS
COMLAB	0.99	-0.82	2.01	0.11	0.67	-1.35	1.45	-3.00	3.85	0.03	2.55	-0.75	0.26	-1.86	0.70	-1.40	1.13	0.07	4.53	0.16	AR	AAS
COMLAB	9.30	3.00	17.30	3.00	4.40	3.00	58.80	3.00	37.10	3.00	25.50	3.00	blid	blid	5.10	3.00	9.30	3.00	47.40	3.00	AR	MS
COMLAB	1.05	0.27	2.10	1.01	0.74	0.95	6.01	0.82	3.80	-0.31	2.70	0.18	0.32	1.22	0.79	0.53	1.12	-0.12	4.51	0.05	AR	MS
COMLAB	0.92	-2.08	1.99	-0.09	0.69	-0.69	5.90	0.41	3.99	0.98	2.62	-0.32	0.28	-0.84	0.80	0.74	1.01	-2.26	4.57	0.37	PR,AR	MS
COMLAB	1.11	1.35	2.05	0.51	0.73	0.62	5.76	-0.12	3.67	-1.19	2.58	-0.57	0.33	1.73	0.82	1.17	1.12	-0.12	4.41	-0.47	AR	AAS
MINELAB	1.05	0.27	2.15	1.51	0.73	0.62	6.16	1.38	4.02	1.18	1.87	-3.00	0.32	1.22	0.82	1.17	1.07	-1.09	2.80	-3.00	AR	AAS
MINELAB	1.18	2.61	4.29	3.00	0.88	3.00	2.69	-3.00	<1.00	-3.00	5.57	3.00	3.70	3.00	<1.00	blid	1.08	-0.90	2.06	-3.00	AR,DIBK	AAS
MINELAB	1.03	-0.09	2.12	1.21	0.74	0.95	6.22	1.61	4.15	2.06	2.89	1.36	0.29	-0.32	0.83	1.38	1.21	1.63	4.84	1.78	AR	AAS
MINELAB	0.94	-1.72	3.61	3.00	0.47	-3.00	5.66	-0.49	1.00	-3.00	2.51	-1.00	<0.10	-3.00	2.03	3.00	nr	nr	4.42	-0.42	AR	DIBK,AAS
MINELAB	1.10	1.17	2.04	0.41	0.75	1.28	6.00	0.78	3.92	0.50	2.78	0.68	0.30	0.19	0.78	0.31	1.18	1.04	4.73	1.21	AR	AAS
MINELAB	1.08	0.81	2.05	0.51	0.71	-0.04	5.87	0.29	3.87	0.17	2.74	0.43	0.32	1.22	0.80	0.74	1.15	0.46	4.52	0.10	AR	AAS
MINELAB	0.95	-1.54	1.87	-1.29	0.68	-1.02	5.35	-1.66	3.91	0.44	2.33											

Standard Deviations



Standard Deviations

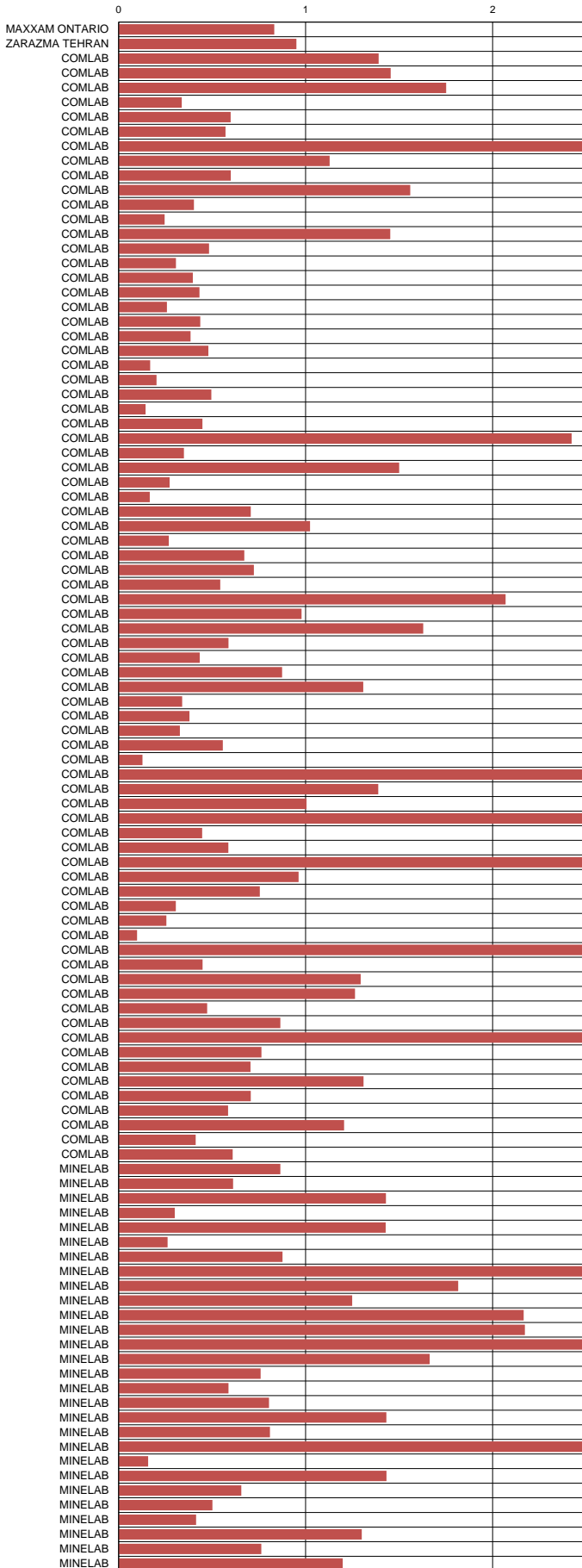


Low Grade Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

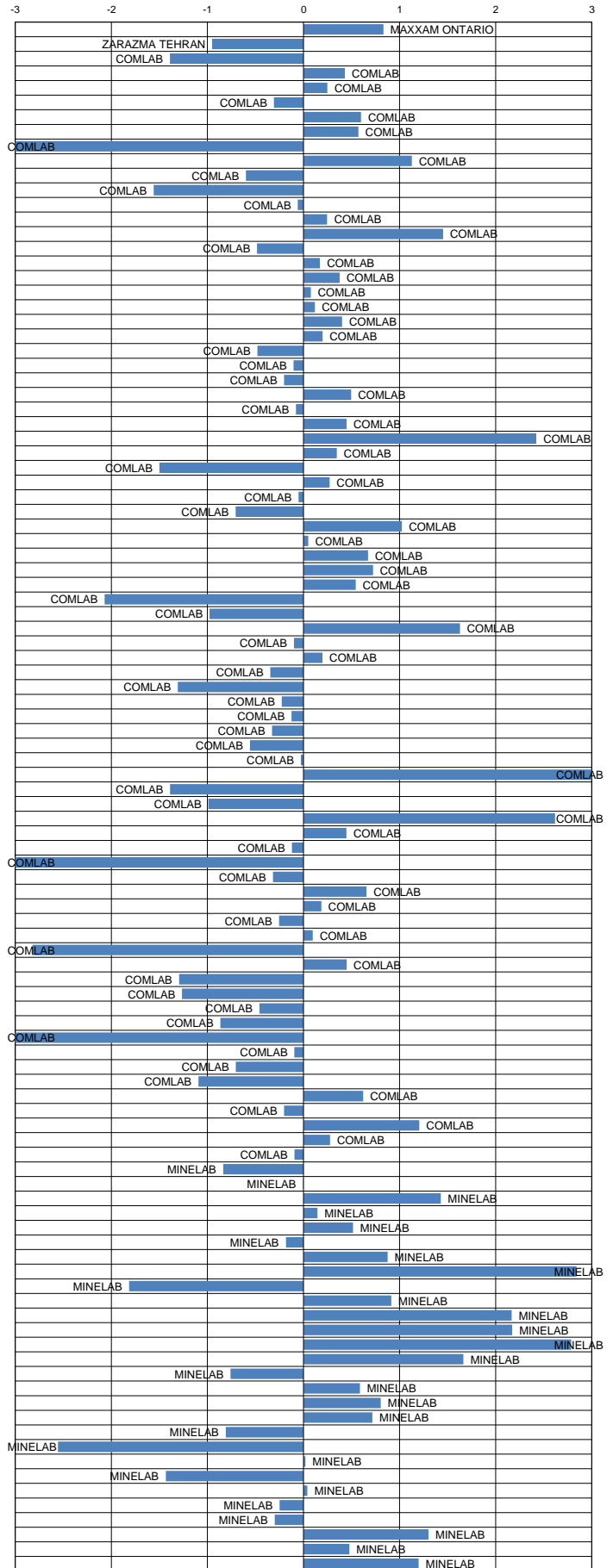
Standard Reference	GLG318-1	GLG318-2	GLG318-3	GLG318-4	GLG318-5
MEAN (ppb)	259	3	214	239	3
STDEV (ppb)	13	2	13	13	2
95% CI (ppb)	3	1	3	3	1
95% CI (%)	1.06%	20.26%	1.27%	1.14%	23.58%
MIN (ppb)	225	0	178	206	0
MEDIAN (ppb)	260	3	215	239	2
MAX (ppb)	290	8	250	274	7
IQR (ppb)	15	3	17	14	3
COUNT	88	38	94	93	38

Standard Reference	GLG318-1		GLG318-2		GLG318-3		GLG318-4		GLG318-5		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
MAXXAM ONTARIO	280	1.61	<5	blid	220	0.42	245	0.47	<5	blid	NAA	
ZARAZMA TEHRAN	253	-0.46	252	3.00	202	-0.93	219	-1.47	1	-0.87	FA	AAS
COMLAB	234	-1.92	<2	blid	201	-1.00	222	-1.26	2	-0.27	FA	MS
COMLAB	239	-1.54	26	3.00	240	1.90	251	0.93	23	3.00	FA	AAS
COMLAB	310	3.00	5	1.03	202	-0.92	221	-1.33	<5	blid	FA	AAS
COMLAB	252	-0.54	3	-0.02	215	0.04	233	-0.43	2	-0.27	FA	AAS
COMLAB	266	0.53	<5	blid	223	0.64	247	0.63	<5	blid	FA	AAS
COMLAB	269	0.72	<5	blid	226	0.85	241	0.14	<5	blid	FA	AAS
COMLAB	212	-3.00	<20	blid	168	-3.00	182	-3.00	<20	blid	AR	MS
COMLAB	270	0.84	2	-0.54	222	0.56	265	1.98	<1	blid	FA	MS
COMLAB	255	-0.28	5	1.24	198	-1.25	235	-0.27	3	0.44	FA	AAS
COMLAB	239	-1.54	2	-0.54	185	-2.19	226	-0.96	5	1.36	FA	AAS
COMLAB	250	-0.69	1	-1.07	220	0.42	240	0.10	0	-1.26	PR AR	MS
COMLAB	261	0.15	1	-1.07	222	0.56	239	0.02	1	-0.82	FA	ES
COMLAB	275	1.22	<5	blid	234	1.46	261	1.68	<5	blid	FA	AAS
COMLAB	252	-0.54	<1	blid	214	-0.03	227	-0.88	<1	blid	FA	ES
COMLAB	262	0.23	1	-1.07	221	0.49	236	-0.20	<1	blid	FA	AAS
COMLAB	267	0.61	<2	blid	214	-0.03	246	0.55	<2	blid	FA	AAS
COMLAB	269	0.76	<2	blid	213	-0.10	233	-0.43	<2	blid	FA	AAS
COMLAB	257	-0.16	<1	blid	222	0.56	238	-0.05	<1	blid	FA	ES
COMLAB	271	0.92	<5	blid	219	0.34	238	-0.05	<5	blid	FA	AAS
COMLAB	266	0.53	6	1.56	219	0.34	235	-0.28	4	0.82	FA	AAS
COMLAB	254	-0.39	2	-0.54	206	-0.63	233	-0.43	2	-0.27	FA	AAS
COMLAB	258	-0.08	1	-1.07	210	-0.33	240	0.10	1	-0.82	FA	ES
COMLAB	259	0.00	<1	blid	208	-0.48	237	-0.13	<1	blid	FA	ES
COMLAB	261	0.15	<2	blid	226	0.86	245	0.47	<2	blid	FA	AAS
COMLAB	258	-0.08	nr	nr	211	-0.25	240	0.10	nr	nr	FA	ES
COMLAB	262	0.25	1	-1.33	220	0.42	248	0.68	1	-1.09	FA	ES
COMLAB	284	1.91	6	1.56	257	3.00	270	2.36	5	1.36	AR	AAS
COMLAB	259	0.00	5	1.03	216	0.12	251	0.93	8	3.00	FA	AAS
COMLAB	254	-0.39	3	-0.02	178	-2.71	220	-1.41	6	1.91	FA	MS
COMLAB	263	0.30	<1	blid	220	0.42	240	0.10	<1	blid	FA	ES
COMLAB	260	0.07	<10	blid	210	-0.33	240	0.10	10	3.00	FA	AAS
COMLAB	252	-0.54	0	-1.49	205	-0.70	227	-0.88	0	-1.31	AR	MS
COMLAB	264	0.38	3	-0.02	226	0.86	263	1.83	<2	blid	FA	AAS
COMLAB	263	0.30	<1	blid	210	-0.33	241	0.17	<1	blid	AR	MS
COMLAB	264	0.38	<5	blid	227	0.94	248	0.70	<5	blid	FA	AAS
COMLAB	266	0.53	<5	blid	227	0.94	248	0.70	<5	blid	FA	AAS
COMLAB	264	0.41	3	-0.28	222	0.57	247	0.65	2	-0.55	FA	AAS
COMLAB	30	-3.00	blid	blid	194	-1.49	216	-1.72	blid	blid	FA	AAS
COMLAB	249	-0.75	2	-0.70	195	-1.48	229	-0.70	4	0.60	AR	GF,AAS
COMLAB	303	3.00	12	3.00	231	1.24	247	0.64	27	3.00	FA	AAS
COMLAB	268	0.69	<20	blid	215	0.04	225	-1.03	<20	blid	FA	AAS
COMLAB	265	0.46	<1	blid	221	0.49	234	-0.35	<1	blid	FA	MS
COMLAB	252	-0.51	<20	blid	225	0.79	221	-1.32	<20	blid	FA	
COMLAB	246	-1.00	<5	blid	195	-1.44	219	-1.48	<5	blid	FA	AAS
COMLAB	260	0.07	1	-1.07	203	-0.85	240	0.10	1	-0.82	FA	AAS
COMLAB	264	0.38	<1	blid	209	-0.40	234	-0.35	<1	blid	FA	ES
COMLAB	258	-0.10	3	0.19	212	-0.19	230	-0.69	3	0.05	FA	AAS
COMLAB	254	-0.39	<1	blid	211	-0.25	225	-1.03	1	-0.82	FA	ES
COMLAB	261	0.15	<10	blid	214	-0.03	236	-0.20	<10	blid	FA	ES
COMLAB	695	3.00	1	-1.07	572	3.00	605	3.00	<0.5	blid	AR	MS
COMLAB	238	-1.61	<1	blid	198	-1.22	221	-1.33	<1	blid	AR	MS
COMLAB	246	-0.97	2	-0.70	215	0.02	212	-2.02	1	-0.71	AR	ICP
COMLAB	299	3.00	<8	blid	239	1.86	286	3.00	<8	blid	AR	AAS
COMLAB	260	0.07	<50	blid	220	0.42	250	0.85	<50	blid	FA	AAS
COMLAB	267	0.63	4	0.51	215	0.07	225	-1.06	2	-0.27	FA	ICP
COMLAB	140	-3.00	13	3.00	122	-3.00	142	-3.00	29	3.00	FA	ES
COMLAB	234	-1.92	3	-0.02	218	0.27	248	0.70	5	1.36	FA	AAS
COMLAB	270	0.87	9	3.00	231	1.25	237	-0.15	11	3.00	FA	ES
COMLAB	262	0.19	<5	blid	222	0.55	236	-0.18	7	2.35	FA	AAS
COMLAB	255	-0.31	1	-1.07	210	-0.33	237	-0.13	2	-0.27	FA	AAS
COMLAB	259	0.00	4	0.51	215	0.04	242	0.25	<1	blid	AR,GF	AAS
COMLAB	212	-3.00	1	-1.07	163	-3.00	206	-2.48	2	-0.27	FA	AAS
COMLAB	267	0.61	2	-0.54	223	0.64	240	0.10	2	-0.27	FA	ES
COMLAB	>200	aid	4	0.51	197	-1.29	>200	aid	1	-0.82	AR	DIBK
COMLAB	235	-1.84	<1	blid	199	-1.15	228	-0.80	<1	blid	AR	MS
COMLAB	248	-0.85	<1	blid	207	-0.55	239	0.02	<1	blid	FA	MS
COMLAB	234	-1.88	6	1.54	208	-0.48	236	-0.24	2	-0.29	FA	AAS
COMLAB	150	-3.00	50	3.00	130	-3.00	180	-3.00	10	3.00	FA	AAS
COMLAB	242	-1.28	3	0.08	214	-0.01	252	1.00	2	-0.44	FA	AAS
COMLAB	254	-0.39	3	-0.02	204	-0.77	226	-0.96	<1	blid	FA	DIBK,AAS
COMLAB	225	-2.61	<1	blid	201	-1.00	243	0.32	2	-0.27	FA	ES
COMLAB	267	0.61	1	-1.07	233	1.38	237	-0.13	1	-0.82	FA	MS
COMLAB	265	0.46	<5	blid	216	0.12	223	-1.18	<5	blid	FA	AAS
COMLAB	280	1.61	<10	blid	230	1.16	250	0.85	<10	blid	FA	AAS
COMLAB	270	0.84	nr	nr	217	0.19	236	-0.20	nr	nr	FA	AAS
COMLAB	266	0.51	<2	blid	200	-1.06	242	0.26	<2	blid	AR	MS
MINELAB	251	-0.62	6	1.56	215	0.04	213	-1.93	5	1.36	FA	AAS
MINELAB	253	-0.50	18	3.00	209	-0.42	251	0.91	58	3.00	FA	AAS
MINELAB	278	1.45	<20	blid	233	1.38	258	1.45	<20	blid	FA	AAS
MINELAB	256	-0.23	<10	blid	217	0.19	245	0.47	<10	blid	FA	AAS
MINELAB	285	1.99	38	3.00	196	-1.37	251	0.93	54	3.00	FA	AAS
MINELAB	252	-0.54	4	0.72	216	0.12	237	-0.13	2	-0.27	FA	AAS
MINELAB	271	0.91	3	0.12	226	0.84	250	0.88	4	1.00	FA	ES
MINELAB	300	3.00	nr	nr	248	2.52	281	3.00	nr	nr	FA	AAS
MINELAB	230	-2.23	<20	blid	190	-1.81	220	-1.41	<20	blid	AR	
MINELAB	253	-0.50	16	3.00	222	0.56	274	2.68	10	3.00		
MINELAB	300	3.00	30	3.00	250	2.65	250	0.85	10	3.00	AR	AAS
MINELAB	285	1.99	8	2.61	287	3.00	259	1.53	7	2.46	FA	AAS
MINELAB	300	3.00	30	3.00	260	3.00	270	2.36	30	3.00	FA	AAS
MINELAB	267	0.59	133	3.00	233	1.40	300	3.00	67	3.00	FA	AAS
MINELAB	239	-1.57	<36	blid	211	-0.28	233	-0.43	<36	blid	FA	AAS
MINELAB	262	0.23	4	0.51	223	0.60	251	0.93	14	3.00	FA	AAS
MINELAB	277	1.38	<5	blid	226	0.86	241					

Standard Deviations



Standard Deviations

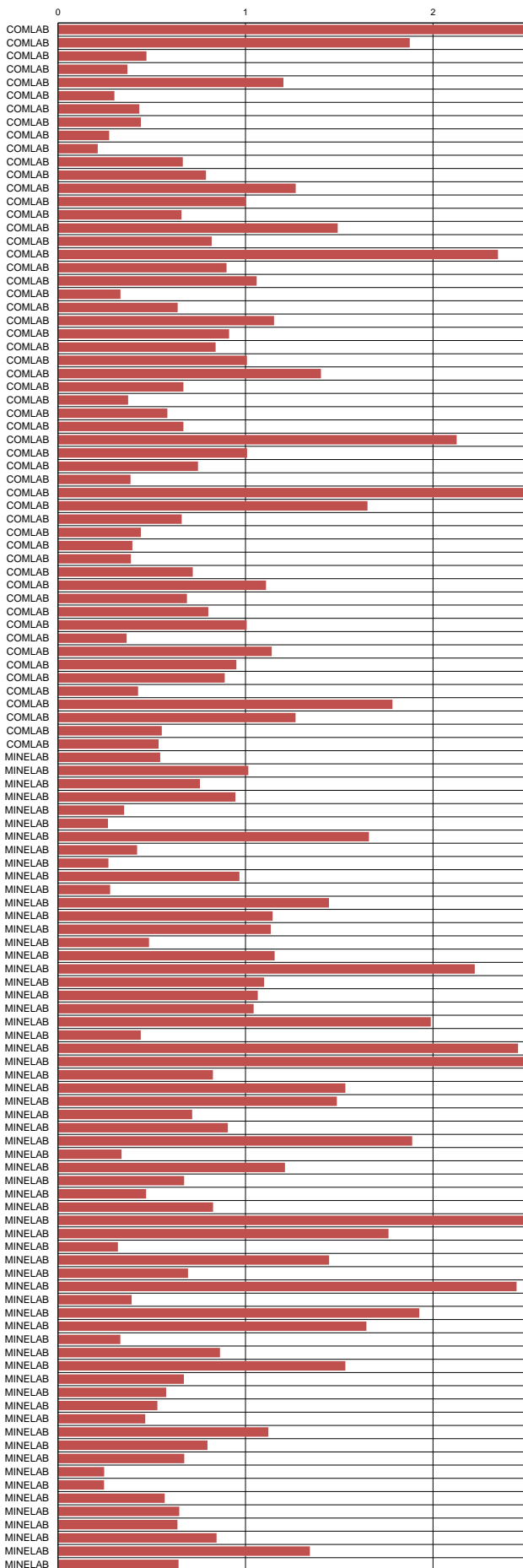


Gold on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

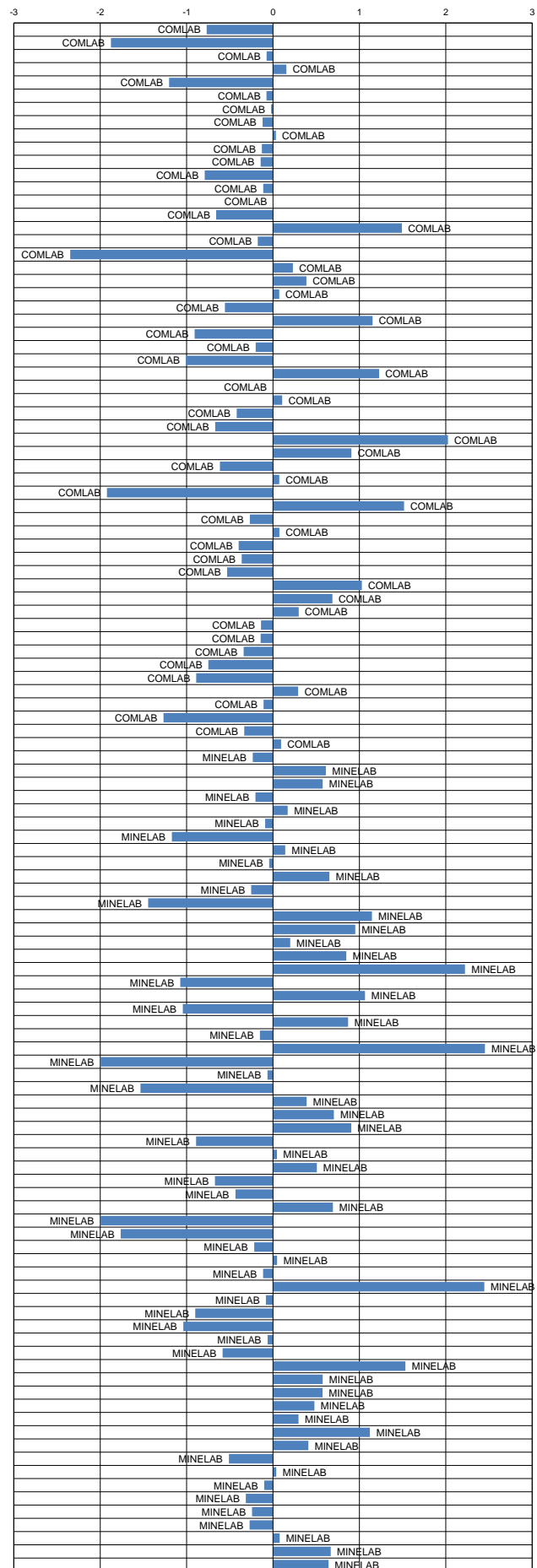
Standard Reference	GBC318-1	GBC318-2	GLC318-1	GLC318-2	GLC318-3	GLC318-4
MEAN (ppm)	21	484	4109	5429	3186	7193
STDEV (ppm)	3	21	311	256	175	328
95% CI (ppm)	1	4	59	49	34	63
95% CI (%)	3.01%	0.87%	1.45%	0.91%	1.05%	0.88%
MIN (ppm)	13	432	3324	4745	2736	6273
MEDIAN (ppm)	20	486	4018	5404	3171	7204
MAX (ppm)	29	537	4789	6008	3680	8098
IQR (ppm)	4	25	298	312	219	372
COUNT	98	99	106	105	105	104

Standard Reference	GBC318-1		GBC318-2		GLC318-1		GLC318-2		GLC318-3		GLC318-4		Method	Reading			
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score					
36	3.00																
COMLAB	14	-2.13	445	-1.81	1800	3610	-3.00	5176	-0.99	2200	2972	-3.00	4270	6500	-2.11	FA	GRAV
COMLAB	19	-0.72	506	1.06	3943	-0.54	5353	-0.30	3171	-0.09	7238	0.14	7238	6200	0.14	FA	GRAV
COMLAB	21	0.08	510	1.23	3968	-0.46	5380	-0.19	3215	0.17	7225	0.10	7225	6200	0.10	FA	GRAV
COMLAB	19	-0.56	417	-3.00	3933	-0.57	5288	-0.55	2826	-2.06	7037	-0.47	7037	6200	-0.47	FA	GRAV
COMLAB	22	0.40	476	-0.36	4090	-0.06	5500	0.28	3080	-0.61	7160	-0.10	7160	6200	-0.10	PR,AR	AAS
COMLAB	21	0.08	491	0.34	3970	-0.45	5350	-0.31	3080	-0.61	7160	0.81	7160	6200	0.81	PR,AR	AAS
COMLAB	23	0.72	489	0.25	3893	-0.70	5287	-0.55	3116	-0.40	7182	-0.03	7182	6200	-0.03	PR,AR	AAS
COMLAB	19	-0.56	484	0.02	4060	-0.16	5500	0.28	3270	0.48	7240	0.14	7240	6200	0.14	FA	GRAV
COMLAB	20	-0.24	489	0.25	3970	-0.45	5370	-0.23	3170	-0.09	7190	-0.01	7190	6200	-0.01	FA	GRAV
COMLAB	21	0.08	502	0.86	3920	-0.61	5310	-0.46	2950	-1.35	7400	0.63	7400	6200	0.63	PR,AR	AAS
COMLAB	20	-0.35	477	-0.33	3840	-0.87	5122	-1.20	2964	-1.27	6959	-0.71	6959	6200	-0.71	FA	GRAV
COMLAB	5	-3.00	496	0.58	4789	2.19	5607	0.70	3072	-0.65	7032	-0.49	7032	6200	-0.49	FA	GRAV
COMLAB	36	3.00	484	-0.01	3839	-0.87	5113	-1.23	3072	-0.65	7114	-0.24	7114	6200	-0.24	FA	GRAV
COMLAB	19	-0.56	465	-0.87	3853	-0.83	5302	-0.50	3071	-0.66	7016	-0.54	7016	6200	-0.54	FA	GRAV
COMLAB	32	3.00	498	0.66	4675	1.82	5809	1.48	3398	1.21	7445	0.77	7445	6200	0.77	FA	GRAV
COMLAB	16	-1.53	490	0.30	3992	-0.38	5570	0.55	2997	-1.08	7547	1.08	7547	6200	1.08	FA,AR	MS
COMLAB	18	-0.97	460	-1.11	2943	-3.00	4099	-3.00	1861	-3.00	6134	-3.00	6134	6200	-3.00	FA	GRAV
COMLAB	130	3.00	491	0.34	3952	-0.51	5275	-0.60	3029	-0.90	7207	0.04	7207	6200	0.04	FA	GRAV
COMLAB	18	-0.88	474	-0.45	3895	-0.69	5805	1.47	3384	1.13	7762	1.73	7762	6200	1.73	PR,AR	ICP
COMLAB	23	0.72	488	0.20	3960	-0.48	5390	-0.15	3160	-0.15	7290	0.30	7290	6200	0.30	FA	GRAV
COMLAB	18	-0.87	432	-2.43	4031	-0.25	5420	-0.03	3187	0.01	7270	0.24	7270	6200	0.24	FA	GRAV
COMLAB	25	1.35	495	0.53	4631	1.68	5733	1.19	3406	1.26	7489	0.90	7489	6200	0.90	FA	GRAV
COMLAB	20	-0.21	298	-3.00	3971	-0.45	5433	0.02	2944	-1.39	7055	-0.42	7055	6200	-0.42	FA	AAS
COMLAB	18	-0.94	524	1.89	3980	-0.42	5221	-0.81	3020	-0.95	7203	0.03	7203	6200	0.03	FA	GRAV
COMLAB	18	-0.88	472	-0.55	3861	-0.80	5186	-0.95	2977	-1.20	6642	-1.68	6642	6200	-1.68	FA	ES
COMLAB	26	1.61	507	1.11	4315	0.66	5295	-0.52	3451	1.52	8326	3.00	8326	6200	3.00	PR,AD	AAS
COMLAB	24	1.03	490	0.30	3790	-1.03	5600	0.67	3170	-0.09	6900	-0.89	6900	6200	-0.89	FA,PR	AAS
COMLAB	21	0.08	492	0.39	3860	-0.80	5533	0.41	3226	0.23	7303	0.34	7303	6200	0.34	FA,PR	GRAV
COMLAB	20	-0.27	494	0.49	3942	-0.54	5048	-1.49	3152	-0.20	7023	-0.52	7023	6200	-0.52	PR,AR	AAS
COMLAB	18	-0.88	476	-0.36	4100	-0.03	5260	-0.66	3020	-0.95	6820	-1.14	6820	6200	-1.14	PR,AR	ES
COMLAB	20	-0.30	514	1.42	5055	3.00	6200	3.00	3725	3.00	7860	2.03	7860	6200	2.03	PR,AR	ES
COMLAB	20	-0.30	490	0.30	4700	1.90	5860	1.68	3380	1.11	7440	0.75	7440	6200	0.75	FA	GRAV
COMLAB	22	0.40	455	-1.34	3879	-0.74	5294	-0.53	3085	-0.58	6899	-0.89	6899	6200	-0.89	FA	GRAV
COMLAB	19	-0.69	495	0.51	4031	-0.25	5488	0.23	3209	0.13	7358	0.50	7358	6200	0.50	FA	GRAV
COMLAB	162	3.00	283	-3.00	3324	-2.53	2825	-3.00	1786	-3.00	4856	-3.00	4856	6200	-3.00	FA	GRAV
COMLAB	20	-0.40	535	2.40	4875	2.47	6150	2.82	3370	1.05	7444	0.77	7444	6200	0.77	AD	ES
COMLAB	16	-1.39	470	-0.63	4474	1.17	5404	-0.10	3087	-0.57	7163	-0.09	7163	6200	-0.09	AD	ES
COMLAB	23	0.58	496	0.57	3982	-0.41	5251	-0.69	3189	0.02	7318	0.38	7318	6200	0.38	FA	GRAV
COMLAB	19	-0.56	469	-0.69	3996	-0.37	5377	-0.20	3101	-0.49	7166	-0.08	7166	6200	-0.08	FA	GRAV
COMLAB	21	0.08	483	-0.03	3980	-0.71	5328	-0.39	3168	-0.10	6858	-1.02	6858	6200	-1.02	AR	AAS
COMLAB	20	-0.24	450	-1.58	4000	-0.35	5450	0.08	2910	-1.58	7350	0.48	7350	6200	0.48	FA	AAS
COMLAB	20	-0.24	484	0.48	4708	1.83	5863	1.70	3409	1.28	7531	1.03	7531	6200	1.03	FA,PR	AAS
COMLAB	21	0.17	487	0.18	4683	1.85	5867	1.71	3211	0.14	7219	0.08	7219	6200	0.08	FA	AAS
COMLAB	33	3.00	490	0.30	3953	-0.50	5335	-0.37	3139	-0.27	7070	-0.37	7070	6200	-0.37	FA	AAS
COMLAB	27	1.99	486	0.11	2550	-3.00	5450	0.08	3110	-0.44	7330	0.42	7330	6200	0.42	FA	GRAV
COMLAB	27	0.05	497	0.63	3958	-0.49	5300	-0.50	3142	-0.25	7099	-0.28	7099	6200	-0.28	AR	AAS
COMLAB	16	-1.52	437	-2.18	4530	1.35	5530	0.40	3300	0.65	6950	-0.74	6950	6200	-0.74	PR,AR	AAS
COMLAB	17	-1.17	435	-2.28	4133	0.08	5245	-0.72	3022	-0.94	7368	0.53	7368	6200	0.53	FA	GRAV
COMLAB	19	-0.53	470	-0.64	4000	-0.35	4960	-1.83	3160	-0.15	6590	-1.84	6590	6200	-1.84	AR	ES
COMLAB	25	1.35	480	-0.17	4100	-0.03	5550	0.47	3150	-0.21	7300	0.33	7300	6200	0.33	PR,AR	AAS
COMLAB	32	3.00	520	1.71	4095	-0.05	4435	-3.00	3241	0.31	6328	-2.63	6328	6200	-2.63	PR,AR	AAS
COMLAB	20	-0.24	460	-1.11	3660	-1.45	5030	-1.56	2950	-1.35	6570	-1.90	6570	6200	-1.90	PR,AR	AAS
COMLAB	19	-0.57	498	0.66	4030	-0.26	5072	-1.39	3178	-0.04	7062	-0.40	7062	6200	-0.40	PR,AR	AAS
COMLAB	19	-0.46	483	-0.03	4153	0.14	5344	-0.33	3492	1.75	7027	-0.50	7027	6200	-0.50	PR,AR	AAS
MINELAB	23	0.59	491	0.34	3870	0.14	5270	-0.62	3085	-0.58	7072	-0.37	7072	6200	-0.37	FA	AAS
MINELAB	20	-0.24	463	-0.97	4690	1.87	5809	1.49	3282	0.55	7514	0.98	7514	6200	0.98	FA	GRAV
MINELAB	23	0.72	472	-0.55	4566	1.47	5623	0.76	3321	0.77	7285	0.28	7285	6200	0.28	FA	GRAV
MINELAB	28	2.23	454	-1.41	3852	-0.83	5331	-0.38	3078	-0.62	7127	-0.20	7127	6200	-0.20	FA	GRAV
MINELAB	22	0.46	472	-0.55	4163	0.17	5491	0.24	3260	0.42	7281	0.27	7281	6200	0.27	FA	AAS,GRAV
MINELAB	20	-0.27	494	0.48	3979	-0.42	5362	-0.26	3166	-0.12	7207	0.04	7207	6200	0.04	FA	GRAV
MINELAB	25	1.46	418	-3.00	3820	-0.93	5148	-1.10	3071	-0.66	6273	-2.80	6273	6200	-2.80	FA	GRAV
MINELAB	22	0.55	474	-0.45	4326	0.70	5542	0.44	3178	-0.05	7082	-0.34	7082	6200	-0.34	FA	GRAV
MINELAB	22	0.24	477	-0.33	3922	-0.60	5476	0.19	3191	0.03	7267	0.23	7267	6200	0.23</		

Standard Deviations



Standard Deviations



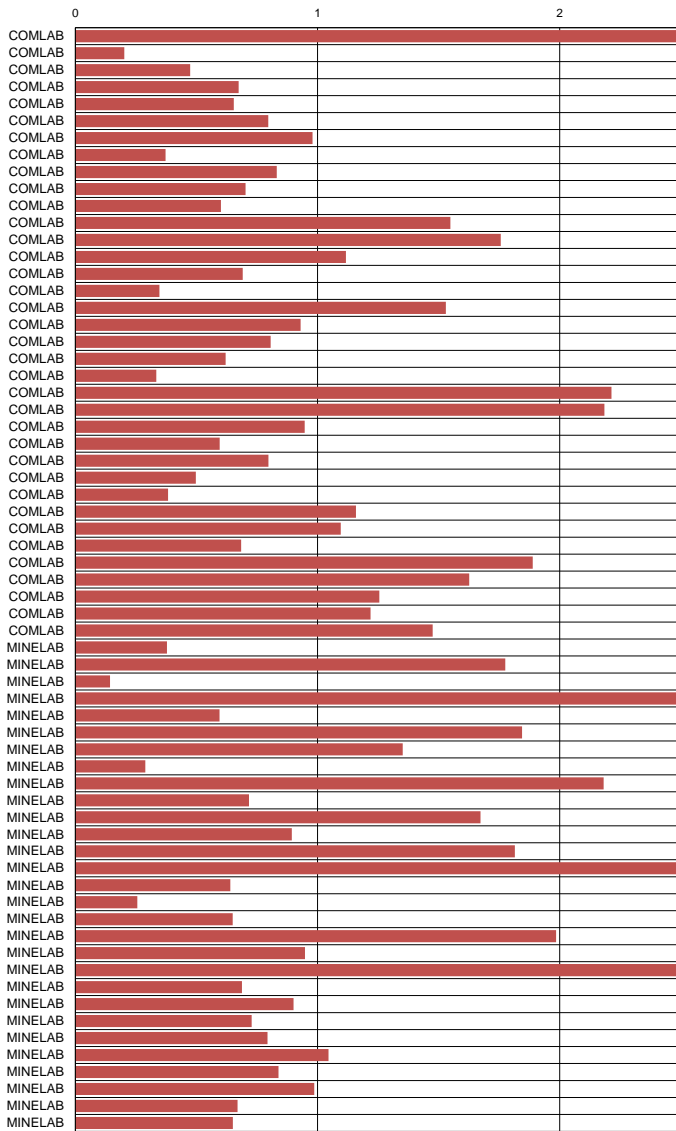
Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

Standard Reference	GBC318-1	GBC318-2	GLC318-1	GLC318-2	GLC318-3	GLC318-4
MEAN (ppm)	36	281	1961	2542	422	3500
STDEV (ppm)	12	107	229	198	29	240
95% CI (ppm)	3	27	59	54	8	66
95% CI (%)	9.08%	9.61%	3.01%	2.12%	2.00%	1.89%
MIN (ppm)	10	12	1517	2044	359	2905
MEDIAN (ppm)	37	315	1905	2525	420	3511
MAX (ppm)	66	493	2593	2962	477	3982
IQR (ppm)	11	165	291	312	41	289
COUNT	51	61	59	53	47	52

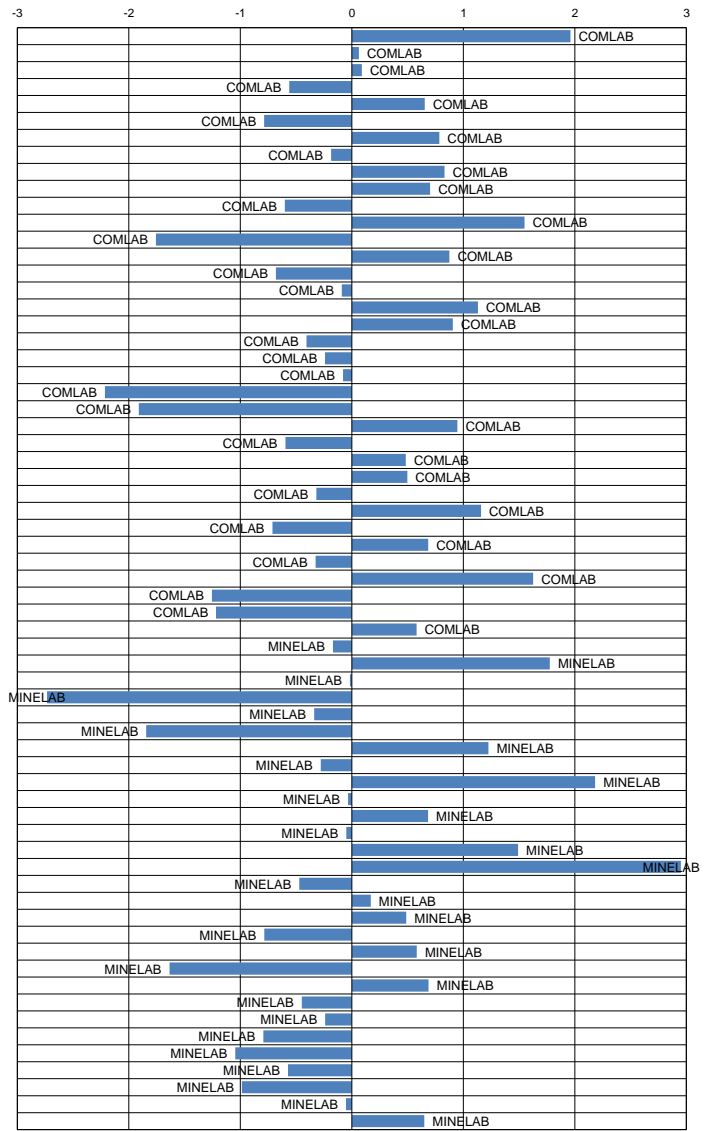
Standard Reference	GBC318-1		GBC318-2		GLC318-1		GLC318-2		GLC318-3		GLC318-4		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	10	-2.20	12	-2.52	19100	3.00	27000	3.00	7250	3.00	22400	3.00	FA	GRAV
COMLAB	41	0.45	363	0.77	1923	-0.16	2550	0.04	417	-0.18	3541	0.17	FA,4A	GRAV,AAS
COMLAB	47	0.97	362	0.76	1859	-0.44	2510	-0.16	435	0.44	3415	-0.35	FA	GRAV
COMLAB	39	0.28	315	0.32	1828	-0.58	2467	-0.38	365	-1.96	3458	-0.17	FA	GRAV
COMLAB	41	0.45	282	0.01	2050	0.39	2670	0.64	468	1.58	3550	0.21	PR,AR	AAS
COMLAB	36	0.03	213	-0.64	1751	-0.91	2331	-1.07	405	-0.59	3165	-1.39	PR,AR	AAS
COMLAB	66	2.59	378	0.91	1875	-0.37	2520	-0.11	463	1.41	3600	0.42	FA	GRAV
COMLAB	40	0.38	345	0.60	1847	-0.49	2462	-0.41	408	-0.50	3521	0.09	FA	GRAV
COMLAB	47	0.97	352	0.67	2182	0.96	2691	0.75	444	0.75	3674	0.72	AR	ICP
COMLAB	46	0.85	359	0.73	1991	0.13	2738	0.99	434	0.40	3774	1.14	1A	AAS
COMLAB	<100	bid	324	0.40	1862	-0.43	2460	-0.41	391	-1.07	3381	-0.49	FA	GRAV
COMLAB	41	0.45	406	1.17	2337	1.64	2844	1.52	557	3.00	3771	1.13	FA	GRAV
COMLAB	32	-0.32	349	0.64	1565	-1.72	2121	-2.12	315	-3.00	3113	-1.61	FA	GRAV
COMLAB	84	3.00	365	0.79	1865	-0.42	2505	-0.19	477	1.89	3523	0.10	FA	GRAV
COMLAB	36	0.03	288	0.07	1857	-0.45	2437	-0.53	415	-0.24	2970	-2.20	PR,AR	ICP
COMLAB	40	0.37	286	0.05	1710	-1.09	2570	0.14	426	0.14	3500	0.00	FA	GRAV
COMLAB	118	3.00	424	1.34	1870	-0.40	2671	0.65	576	3.00	3355	-0.60	FA	GRAV
COMLAB	35	-0.06	355	0.69	2244	1.23	2774	1.17	457	1.20	3737	0.99	AD,FA	AAS,GRAV
COMLAB	36	0.05	352	0.67	2116	0.68	2536	-0.03	430	0.27	2107	-3.00	FA	GRAV
COMLAB	21	-1.26	142	-1.30	2100	0.61	2610	0.34	396	-0.89	3500	0.00		
COMLAB	38	0.18	338	0.53	1905	-0.24	2454	-0.44	412	-0.35	3610	0.46		AAS
COMLAB	19	-1.43	97	-1.72	nr	nr	nr	nr	320	-3.00	nr	nr	PR,AR	ES
COMLAB	21	-1.24	187	-0.88	620	-3.00	723	-3.00	442	0.68	474	-3.00	PR,AR	ES
COMLAB	43	0.62	338	0.53	2210	1.09	2760	1.10	460	1.30	3650	0.62	FA	GRAV
COMLAB	<50	bid	343	0.58	1809	-0.66	2331	-1.07	412	-0.35	3425	-0.31	FA	GRAV
COMLAB	38	0.20	371	0.84	2155	0.85	2420	-0.62	485	2.16	3460	-0.17		AAS
COMLAB	37	0.15	331	0.47	2138	0.77	2606	0.32	431	0.31	3725	0.94	AD	ES
COMLAB	36	0.03	347	0.62	1944	-0.07	2393	-0.75	426	0.14	3277	-0.93	AR	AAS
COMLAB	47	0.97	372	0.85	2259	1.30	2770	1.15	465	1.47	3717	0.90	FA,PR	AAS
COMLAB	35	-0.06	258	-0.21	1870	-0.40	2331	-1.07	450	0.96	2365	-3.00	AR	AAS
COMLAB	nr	nr	368	0.82	1989	0.12	2605	0.32	470	1.65	3657	0.65	AR	AAS
COMLAB	19	-1.43	43	-2.23	1930	0.13	>2000	aid	545	3.00	1380	-3.00	AR	AAS
COMLAB	37	0.11	297	0.15	2330	1.61	2880	1.70	537	3.00	3910	1.71	PR,AR	AAS
COMLAB	32	-0.32	118	-1.53	1720	-1.05	>2000	aid	403	-0.65	1910	-3.00	AR	ES
COMLAB	21	-1.22	140	-1.32	1629	-1.44	2256	-1.44	403	-0.65	3179	-1.33	PR,AR	AAS
COMLAB	20	-1.34	180	-0.95	1980	0.08	>2000	aid	535	3.00	>2000	aid	PR,AR	AAS
MINELAB	38	0.23	280	-0.01	1842	-0.52	2446	-0.49	431	0.29	3412	-0.37	PR,AR	AAS
MINELAB	97	3.00	493	1.99	2271	1.35	2712	0.86	583	3.00	3660	0.67		GRAV
MINELAB	37	0.09	347	0.62	1905	-0.24	2518	-0.12	421	-0.04	3553	0.22	AR	AAS
MINELAB	bid	bid	239	-0.39	1517	-1.93	1751	-3.00	201	-3.00	2531	-3.00	FA	GRAV
MINELAB	41	0.47	338	0.53	2000	0.17	2465	-0.39	385	-1.28	3341	-0.66	FA	GRAV
MINELAB	32	-0.32	317	0.34	1606	-1.55	2044	-2.51	nr	nr	2332	-3.00	FA	GRAV
MINELAB	32	-0.32	426	1.36	2265	1.33	2783	1.22	545	3.00	3716	0.90	FA	GRAV
MINELAB	36	0.03	343	0.58	1843	-0.51	2455	-0.44	415	-0.24	3446	-0.22	FA	GRAV
MINELAB	57	1.82	389	1.01	2411	1.96	2962	2.12	556	3.00	3982	2.01	FA	GRAV
MINELAB	20	-1.34	151	-1.22	1933	-0.12	2638	0.48	410	-0.41	3794	1.22	PR,AR	AAS
MINELAB	92	3.00	417	1.28	2270	1.35	2692	0.76	445	0.79	2905	-2.47		
MINELAB	19	-1.43	169	-1.05	2093	0.58	2722	0.91	395	-0.93	3651	0.63	PR,AR	AAS
MINELAB	64	2.39	172	-1.02	2350	1.70	2777	1.18	754	3.00	3305	-0.81		AAS
MINELAB	199	3.00	773	3.00	2593	2.75	4363	3.00	1090	3.00	9978	3.00	FA	GRAV
MINELAB	41	0.42	342	0.57	1729	-1.01	2373	-0.86	401	-0.74	3458	-0.18	FA	GRAV
MINELAB	<100	bid	188	-0.87	2071	0.48	2525	-0.09	420	-0.08	3589	0.37	AR	AAS
MINELAB	<50	bid	177	-0.98	1997	0.16	2710	0.85	413	-0.32	3806	1.27	AR	AAS
MINELAB	30	-0.49	108	-1.62	1632	-1.43	365	-3.00	2262	3.00	3018	-2.01	AR	AAS
MINELAB	25	-0.91	424	1.34	2127	0.72	2711	0.85	454	1.10	3777	1.15	FA	GRAV
MINELAB	1048	3.00	1127	3.00	885	-3.00	1180	-3.00	359	-2.18	1160	-3.00	FA	GRAV
MINELAB	38	0.20	290	0.09	2168	0.90	2704	0.82	449	0.92	3644	0.60	FA	GRAV
MINELAB	20	-1.34	304	0.22	1772	-0.82	2398	-0.73	455	1.13	3384	-0.48	FA	GRAV
MINELAB	50	1.22	240	-0.38	1820	-0.61	2380	-0.82	420	-0.07	3280	-0.91	AR	AAS
MINELAB	30	-0.45	297	0.15	1761	-0.87	2325	-1.09	390	-1.11	3395	-0.44	3A	AAS
MINELAB	19	-1.43	110	-1.60	1710	-1.09	2310	-1.17	381	-1.41	3470	-0.12	AR	AAS
MINELAB	43	0.66	107	-1.63	1825	-0.59	2210	-1.68	388	-1.17	3478	-0.09	AR	AAS
MINELAB	35	-0.06	178	-0.96	1811	-0.65	2292	-1.26	372	-1.72	3202	-1.24	AR	AAS
MINELAB	53	1.48	348	0.63	1832	-0.56	2534	-0.04	424	0.07	3211	-1.20	PP	XRF
MINELAB	37	0.10	267	-0.13	2039	0.34	2734	0.97	437	0.52	3819	1.33	PR	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. Insufficient reliable results were received for the highlighted material. These results do not contribute to the error charts.

Standard Deviations



Standard Deviations



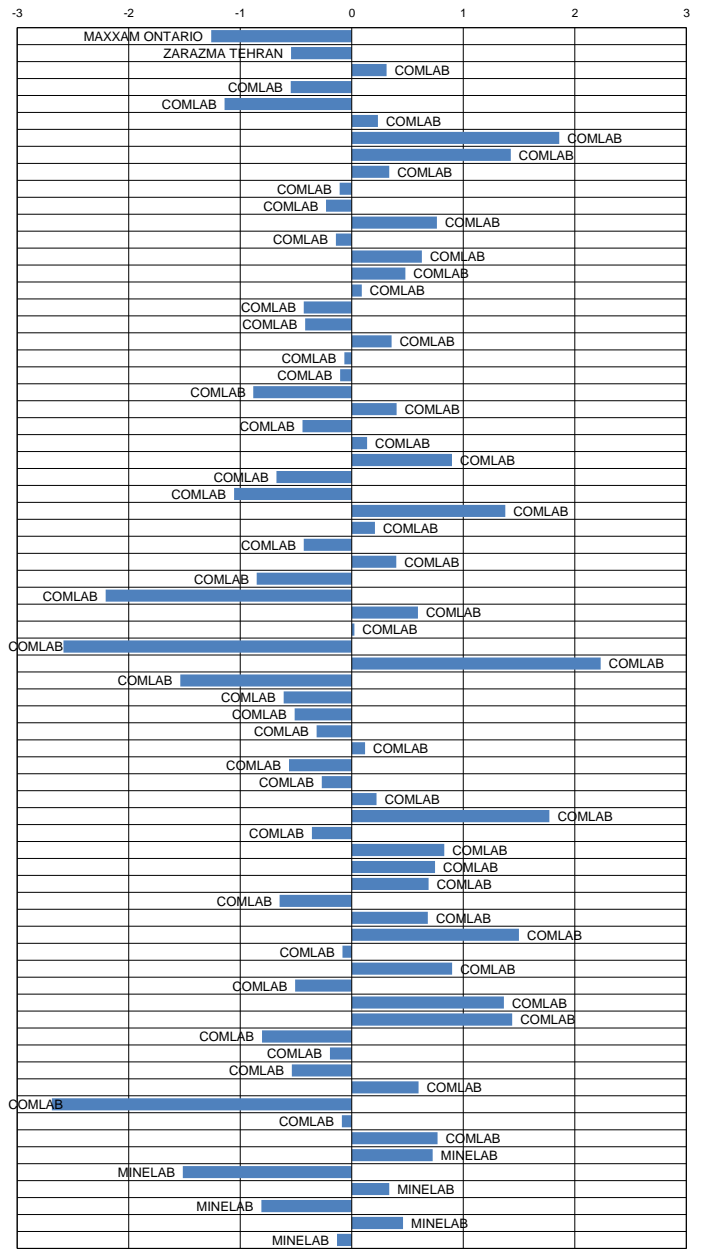
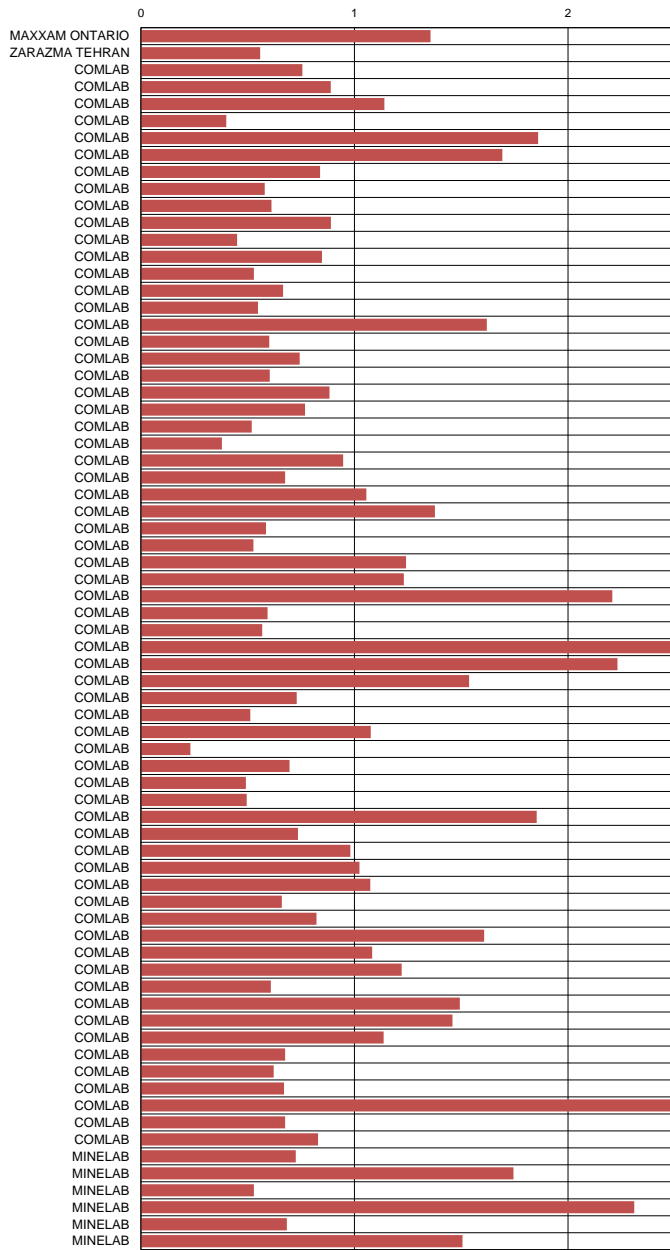
Silver (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

Standard Reference	GBM318-1	GBM318-2	GBM318-3	GBM318-4	GBM318-5	GBM318-6	GBM318-7	GBM318-8	GBM318-9	GBM318-10
MEAN (ppm)	3.2	3.5	0.5	20.5	4.7	6.9	0.1	18.5	0.9	0.7
STDEV (ppm)	0.4	0.5	0.4	1.5	0.4	0.5	0.1	1.1	0.2	0.2
95% CI (ppm)	0.1	0.1	0.2	0.4	0.1	0.1	0.1	0.3	0.1	0.1
95% CI (%)	3.45%	3.34%	38.83%	1.82%	2.00%	1.79%	64.43%	1.51%	7.64%	8.64%
MIN (ppm)	2.0	2.5	0.0	17.0	3.9	5.9	0.0	16.0	0.3	0.2
MEDIAN (ppm)	3.2	3.5	0.6	20.4	4.8	7.0	0.2	18.6	0.9	0.7
MAX (ppm)	4.2	4.6	1.3	24.5	5.4	8.0	0.2	21.0	1.4	1.3
IQR (ppm)	0.4	0.6	0.7	2.0	0.6	0.6	0.2	1.2	0.2	0.3
COUNT	60	58	16	65	61	62	6	60	46	44

Standard Reference	GBM318-1		GBM318-2		GBM318-3		GBM318-4		GBM318-5		GBM318-6		GBM318-7		GBM318-8		GBM318-9		GBM318-10		Method	Reading		
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score				
MAXXAM ONTARIO	<5.0	bid	<5.0	bid	<5.0	bid	18.0	-1.64	<5.0	bid	7.0	0.14	<5.0	bid	16.0	-2.29	<5.0	bid	<5.0	bid	<5.0	bid	NAA	
ZARAZMA TEHRAN	3.0	-0.45	3.4	-0.30	0.3	-0.57	20.4	-0.06	4.4	-0.78	6.4	-1.07	<0.1	bid	16.8	-1.55	0.9	0.05	0.7	-0.19	4A	ES		
COMLAB	2.8	-0.92	4.1	1.24	<0.3	bid	22.7	1.45	4.8	0.30	6.6	-0.67	<0.3	bid	18.9	0.37	1.1	0.92	0.7	-0.19	4A	ICP		
COMLAB	2.9	-0.68	3.6	0.14	0.4	-0.33	18.9	-1.05	4.4	-0.78	6.1	-1.68	<0.3	bid	16.8	-1.55	1.0	0.48	0.9	0.74	4A	ICP		
COMLAB	<3.0	bid	3.0	-1.18	<3.0	bid	20.0	-0.32	4.0	-1.86	6.0	-1.88	<3.0	bid	18.0	-0.46	<3.0	bid	<3.0	bid	4A	ICP		
COMLAB	3.3	0.24	3.7	0.36	<0.4	bid	20.9	0.27	4.9	0.57	7.4	0.95	<0.4	bid	18.6	0.09	0.9	0.05	0.6	-0.66	4A	AAS		
COMLAB	4.0	1.86	4.0	1.02	1.0	1.13	21.0	0.33	6.0	3.00	8.0	2.17	<1.0	bid	21.0	2.29	2.0	3.00	1.0	1.21	FUS	ICP		
COMLAB	4.2	2.28	3.9	0.76	<0.25	bid	25.3	3.00	5.2	1.24	8.6	3.00	<0.25	bid	20.9	2.20	0.8	-0.55	0.6	-0.52	4A	ES		
COMLAB	3.2	0.01	3.2	-0.74	1.3	1.85	21.5	0.66	4.9	0.57	6.7	-0.46	<0.5	bid	19.0	0.46	0.7	-0.81	1.8	3.00	4A	ES		
COMLAB	3.4	0.47	4.1	1.24	<0.5	bid	18.7	-1.18	4.7	0.03	7.0	0.14	<0.5	bid	17.4	-1.01	0.8	-0.38	0.7	-0.19	4A	ES		
COMLAB	3.4	0.47	3.3	-0.52	<0.5	bid	18.8	-1.11	4.8	0.30	7.3	0.75	<0.5	bid	17.7	-0.73	0.7	-0.81	0.7	-0.19	4A	ES		
COMLAB	3.4	0.47	4.0	1.02	0.8	0.64	20.0	-0.32	5.2	1.37	7.5	1.16	<0.5	bid	18.3	-0.18	1.1	0.92	1.1	1.67	4A	ES		
COMLAB	3.0	-0.45	3.6	0.14	<0.5	bid	19.5	-0.65	4.8	0.30	6.8	-0.26	<0.5	bid	17.4	-1.01	0.9	0.05	0.9	0.74	4A	ES		
COMLAB	2.9	-0.68	3.7	0.36	<0.5	bid	20.2	-0.19	5.3	1.64	7.2	0.55	<0.5	bid	18.9	0.37	1.3	1.78	1.0	1.21	4A	ES		
COMLAB	3.4	0.47	4.1	1.24	<0.2	bid	21.0	0.33	4.8	0.30	7.3	0.75	0.2	0.86	19.0	0.46	1.0	0.48	0.7	-0.19	4A	ICP		
COMLAB	3.5	0.71	4.0	1.02	<1.0	bid	20.2	-0.20	4.4	-0.78	6.6	-0.67	<1.0	bid	18.1	-0.36	1.1	0.92	<1.0	bid	4A	ES		
COMLAB	3.4	0.47	3.4	-0.30	<0.5	bid	18.7	-1.18	4.6	-0.24	6.9	-0.06	<0.5	bid	17.3	-1.10	0.8	-0.38	0.6	-0.66	4A	ES		
COMLAB	<2.0	bid	<2.0	bid	<2.0	bid	18.0	-1.64	5.0	0.84	8.0	2.17	<2.0	bid	18.0	-0.46	<2.0	bid	<2.0	bid	4A	ES		
COMLAB	3.0	-0.45	3.3	-0.52	0.7	0.40	22.7	1.45	5.0	0.84	7.3	0.75	<0.5	bid	18.5	0.00	0.9	0.05	0.9	0.74	4A	ES		
COMLAB	3.0	-0.45	3.1	-0.96	<0.5	bid	22.4	1.26	4.9	0.57	7.2	0.55	<0.5	bid	18.3	-0.18	0.6	-1.24	<0.5	bid	4A	ES		
COMLAB	3.3	0.24	4.2	1.46	<0.5	bid	19.0	-0.98	4.8	0.30	6.8	-0.26	<0.5	bid	17.9	-0.55	0.8	-0.38	0.6	-0.66	4A	ES		
COMLAB	2.7	-1.15	3.0	-1.18	<0.5	bid	20.4	-0.06	4.2	-1.32	6.5	-0.87	<0.5	bid	18.1	-0.36	0.6	-1.24	<0.5	bid	4A	ES		
COMLAB	3.2	0.01	4.3	1.68	<0.5	bid	21.7	0.80	4.9	0.57	7.1	0.35	<0.5	bid	19.9	1.28	0.7	-0.81	0.6	-0.66	4A	ES		
COMLAB	3.3	0.17	3.1	-0.89	nr	nr	18.6	-1.28	4.4	-0.89	6.8	-0.22	nr	nr	18.3	-0.23	0.8	-0.33	0.8	0.13	4A	MS		
COMLAB	3.1	-0.13	3.4	-0.21	1.1	1.47	22.1	1.05	4.7	0.14	6.6	-0.63	<0.02	bid	19.1	0.50	0.9	0.05	0.8	0.32	4A	ES		
COMLAB	3.6	0.94	3.6	0.14	<0.1	bid	22.1	1.06	5.0	0.84	7.6	1.36	<0.1	bid	22.1	3.00	0.9	0.05	0.7	-0.19	4A	ICP		
COMLAB	3.0	-0.45	3.0	-1.18	<0.2	bid	20.4	-0.06	4.4	-0.78	6.4	-1.07	<0.2	bid	17.6	-0.82	0.8	-0.38	0.6	-0.66	4A	MS		
COMLAB	3.1	-0.22	3.3	-0.52	<1.0	bid	19.0	-0.98	4.3	-1.05	6.3	-1.27	<1.0	bid	16.0	-2.29	<1.0	bid	<1.0	bid	4A	AAS		
COMLAB	4.0	1.86	5.0	3.00	<1.0	bid	21.0	0.33	5.0	0.84	7.0	0.14	<1.0	bid	19.0	0.46	2.0	3.00	<1.0	bid	4A	AAS		
COMLAB	3.7	1.17	3.5	-0.08	<1.0	bid	21.5	0.66	4.4	-0.78	7.2	0.55	<1.0	bid	18.2	-0.27	<1.0	bid	<1.0	bid	4A	AAS		
COMLAB	2.9	-0.68	3.5	-0.08	<0.1	bid	21.0	0.33	4.5	-0.51	6.4	-1.07	<0.1	bid	17.6	-0.82	0.9	0.05	0.6	-0.66	4A	MS		
COMLAB	3.1	-0.22	4.6	2.34	0.6	0.15	20.9	0.27	4.3	-1.05	6.3	-1.27	<0.5	bid	17.6	-0.82	1.2	1.35	1.3	2.61	4A	ES		
COMLAB	3.6	0.94	3.8	0.58	0.2	-0.82	19.9	-0.39	4.3	-1.05	6.7	-0.46	0.2	0.86	17.0	-1.37	0.3	-2.53	0.2	-2.53	4A	ES		
COMLAB	2.5	-1.61	2.5	-2.28	<0.5	bid	17.5	-1.97	3.5	-3.00	5.0	-3.00	<0.5	bid	14.0	-3.00	0.5	-1.67	0.5	-1.13	4A	MS		
COMLAB	3.5	0.71	3.7	0.36	<0.5	bid	21.5	0.66	4.8	0.30	7.4	0.95	<0.5	bid	19.6	1.01	1.0	0.48	0.8	0.27	4A	AAS		
COMLAB	3.0	-0.45	3.0	-1.18	<1.0	bid	21.0	0.33	5.0	0.84	7.0	0.14	<1.0	bid	19.0	0.46	<1.0	bid	<1.0	bid	4A	ICP		
COMLAB	2.0	-2.77	2.0	-3.00	<2.0	bid	15.0	-3.00	4.0	-1.86	6.0	-1.88	<2.0	bid	14.0	-3.00	<2.0	bid	<2.0	bid	4A	AAS		
COMLAB	7.2	3.00	4.6	2.34	1.8	3.00	22.6	1.39	4.9	0.57	7.7	1.56	0.8	3.00	23.1	3.00	1.9	3.00	1.6	3.00	4A	ES		
COMLAB	2.9	-0.68	3.2	-0.74	0.1	-1.06	17.0	-2.30	4.1	-1.59	5.9	-2.08	0.1	-0.25	15.1	-3.00	0.6	-1.24	0.6	-0.66	4A	GRAV.AAS		
COMLAB	2.9	-0.68	3.2	-0.74	0.2	-0.94	20.8	0.20	4.2	-1.45	6.7	-0.56	<0.05	bid	18.8	0.28	0.7	-1.02	0.6	-0.89	4A	MS		
COMLAB	3.2	0.06	3.1	-1.03	<0.05	bid	20.1	-0.29	4.5	-0.51	6.4	-1.03	<0.05	bid	18.0	-0.43	0.8	-0.46	0.7	-0.29	4A	MS		
COMLAB	3.0	-0.45	4.0	1.02	<1.0	bid	21.0	0.33	4.0	-1.86	6.0	-1.88	<1.0	bid	17.0	-1.37	1.0	0.48	1.0	1.21	4A	AAS		
COMLAB	3.2	0.01	3.8	0.58	0.1	-1.06	20.1	-0.26	4.7	0.03	7.2	0.55	<0.1	bid	18.7	0.18	0.9	0.05	0.7	-0.19	4A	MS		
COMLAB	2.8	-1.03	3.3	-0.45	<0.5	bid	21.3	0.53	4.3	-0.94	6.4	-1.11	<0.5	bid	17.9	-0.57	0.8	-0.55	0.7	-0.38	4A	ICP		
COMLAB	3.1	-0.29	3.5	-0.15	<0.05	bid	20.9	0.29	4.7	-0.05	6.8	-0.28	<0.05	bid	19.2	0.60	0.7	-0.72	0.4	-1.55	4A	MS		
COMLAB	3.3	0.31	3.7	0.45	<0.1	bid	22.3	1.19	4.9	0.65	6.6	-0.61	<0.1	bid	18.8	0.28	0.8	-0.29	0.7	-0.19	4A	AAS		
COMLAB	6.0	3.00	6.0	3.00	2.0	3.00	20.0	-0.32	5.0	0.84	9.0	3.00	<1.0	bid	19.0	0.46	2.0	3.00	1.0	1.21	4A	AAS		
COMLAB	3.2	0.01	3.9	0.80	0.0	-1.24	18.5	-1.31	5.0	0.70	6.5	-0.97	0.0	-1.03	17.0	-1.37	0.8	-0.27	0.6	-0.45	4A	ICP		
COMLAB	3.0	-0.45	5.0	3.00	2.0	3.00	22.0	0.99	5.0	0.84	7.0	0.14												

Standard Deviations

Standard Deviations

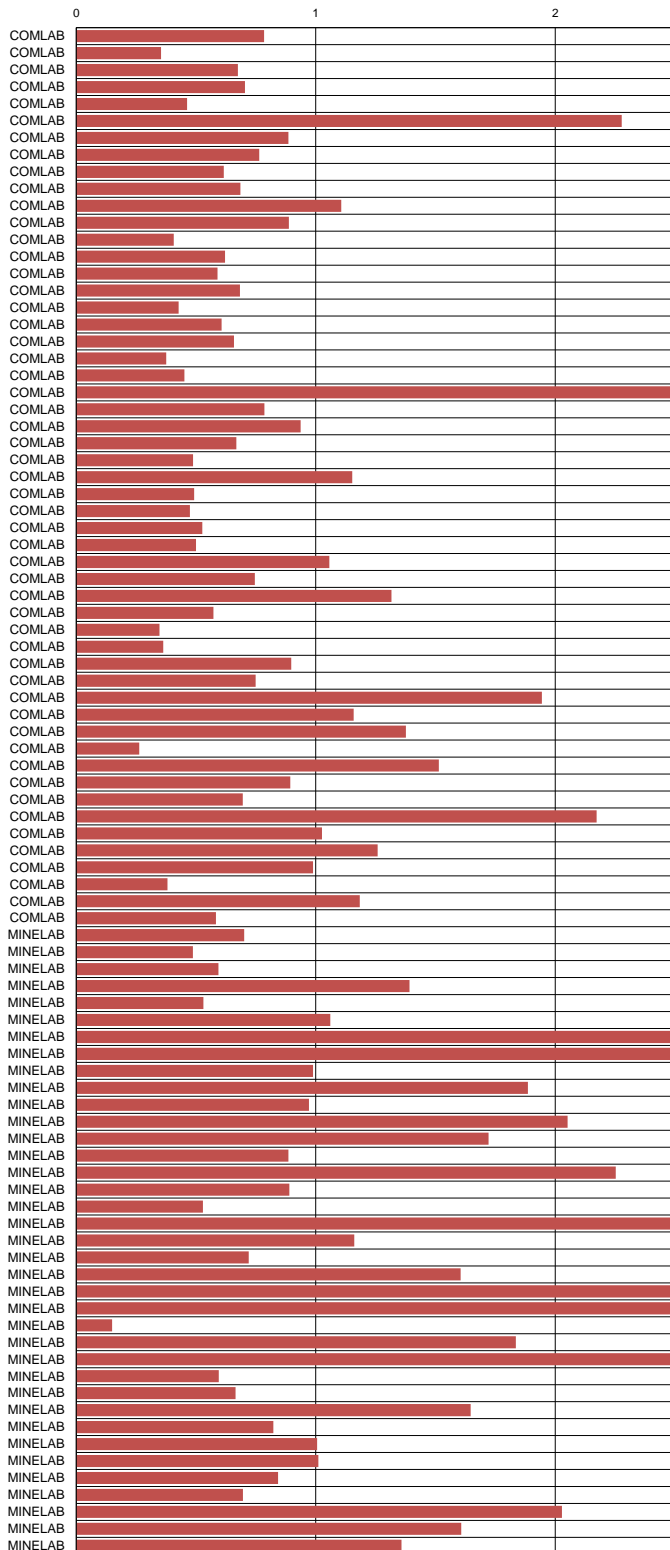


Silver (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

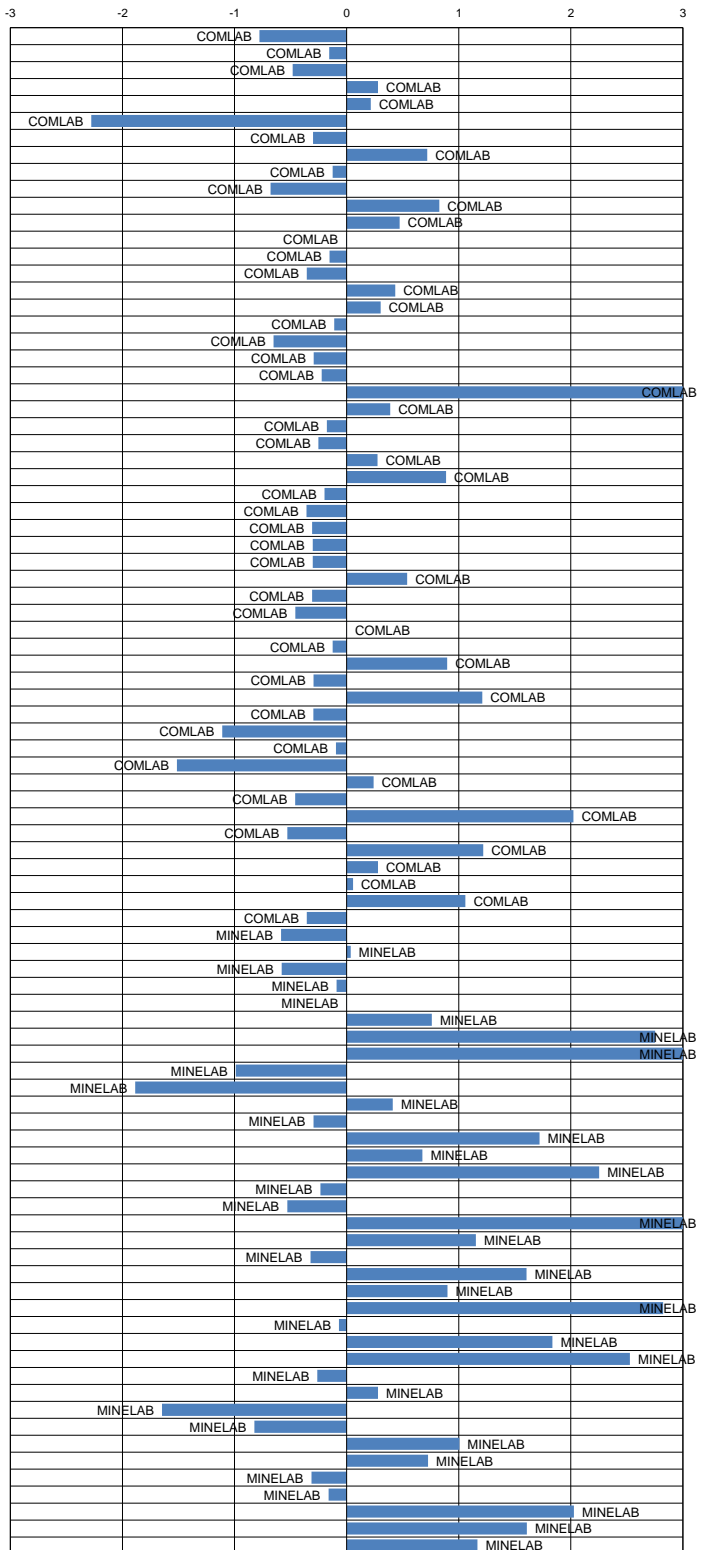
Standard Reference	GBM318-1	GBM318-2	GBM318-3	GBM318-4	GBM318-5	GBM318-6	GBM318-7	GBM318-8	GBM318-9	GBM318-10
MEAN (ppm)	3.1	3.5	0.8	18.8	4.5	6.7	0.4	18.0	0.8	0.8
STDEV (ppm)	0.3	0.6	0.7	1.1	0.4	0.5	0.2	1.3	0.2	0.3
95% CI (ppm)	0.1	0.1	0.3	0.3	0.1	0.1	0.2	0.3	0.0	0.1
95% CI (%)	2.53%	3.57%	31.99%	1.35%	2.15%	1.83%	40.49%	1.64%	5.40%	9.60%
MIN (ppm)	2.4	2.0	0.0	15.8	3.4	5.5	0.0	14.9	0.6	0.4
MEDIAN (ppm)	3.1	3.5	0.7	18.8	4.5	6.7	0.3	17.9	0.8	0.7
MAX (ppm)	4.0	5.0	2.1	21.4	5.4	8.0	0.8	21.2	1.2	1.5
IQR (ppm)	0.4	0.7	0.9	1.5	0.5	0.7	0.4	1.5	0.2	0.3
COUNT	70	76	24	75	73	75	11	77	47	51

Standard Reference	GBM318-1		GBM318-2		GBM318-3		GBM318-4		GBM318-5		GBM318-6		GBM318-7		GBM318-8		GBM318-9		GBM318-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	3.2	0.20	3.5	0.02	<0.2	bld	17.5	-1.14	4.2	-0.78	6.2	-0.88	<0.2	bld	15.6	-1.82	0.8	-0.20	0.6	-0.85	AR	ICP
COMLAB	2.8	-1.02	3.2	-0.61	0.1	-1.06	19.5	0.63	4.3	-0.55	6.6	-0.21	0.5	0.37	17.7	-0.22	0.8	0.06	0.7	-0.20	AR	MS
COMLAB	3.0	-0.40	3.6	0.21	0.3	-0.82	17.6	-1.05	4.2	-0.78	6.2	-0.88	<0.2	bld	16.5	-1.13	0.8	-0.20	0.9	0.47	AR	ICP
COMLAB	3.1	-0.10	3.3	-0.34	<0.2	bld	17.8	-0.87	4.7	0.40	7.2	0.98	<0.2	bld	20.1	1.61	0.9	0.45	0.7	-0.27	AR	ICP
COMLAB	3.2	0.20	3.9	0.75	<0.4	bld	18.4	-0.33	4.8	0.64	7.2	0.98	<0.4	bld	17.9	-0.06	0.8	-0.20	0.7	-0.27	AR	AAS
COMLAB	2.5	-1.89	2.9	-1.07	bld	bld	13.1	-3.00	3.2	-3.00	4.7	-3.00	bld	bld	11.7	-3.00	0.6	-1.48	0.4	-1.39	3A	ES
COMLAB	2.9	-0.82	3.3	-0.36	<0.25	bld	19.4	0.57	4.3	-0.66	6.4	-0.58	<0.25	bld	19.9	1.48	0.6	-1.48	0.5	-1.06	AR	ES
COMLAB	3.3	0.49	3.4	-0.16	0.2	-0.97	19.4	0.57	5.0	1.12	7.5	1.54	<0.2	bld	18.5	0.39	1.0	1.09	0.9	0.47	AR	ES
COMLAB	3.1	-0.10	4.2	1.30	0.2	-0.97	17.4	-1.23	4.5	-0.07	6.9	0.42	<0.2	bld	17.4	-0.44	0.8	-0.20	0.6	-0.65	AR	ES
COMLAB	3.7	1.69	3.5	0.02	<0.2	bld	18.3	-0.42	4.2	-0.78	6.1	-1.07	<0.2	bld	16.3	-1.28	0.8	-0.20	0.5	-1.02	AR	ES
COMLAB	2.9	-0.70	4.1	1.11	<0.5	bld	22.6	3.00	4.8	0.64	6.9	0.42	<0.5	bld	18.8	0.62	0.7	-0.84	<0.5	bld	AR	ICP
COMLAB	3.6	1.39	3.7	0.39	<1.0	bld	18.8	0.03	4.4	-0.31	6.3	-0.70	<1.0	bld	17.4	-0.44	1.2	2.38	1.3	1.97	AR	ES
COMLAB	3.0	-0.40	3.6	0.21	<0.2	bld	18.6	-0.15	4.7	0.40	7.1	0.80	<0.2	bld	16.9	-0.83	0.8	-0.20	0.7	-0.27	AR	ES
COMLAB	2.9	-0.70	3.6	0.21	0.3	-0.82	17.9	-0.78	4.8	0.64	7.1	0.80	<0.2	bld	17.9	-0.06	0.7	-0.84	0.5	-1.02	AR	ES
COMLAB	2.9	-0.70	3.5	0.02	<0.2	bld	18.6	-0.15	4.3	-0.55	7.1	0.80	<0.2	bld	17.0	-0.75	0.7	-0.84	0.5	-1.02	AR	ES
COMLAB	3.2	0.20	3.7	0.39	<0.2	bld	17.8	-0.87	4.7	0.40	7.2	0.98	<0.2	bld	18.6	0.47	0.9	0.45	1.1	1.22	AR	ES
COMLAB	3.0	-0.40	4.0	0.93	nr	nr	19.1	0.30	4.4	-0.31	6.7	0.05	nr	nr	18.7	0.55	nr	nr	nr	nr	AR	AAS
COMLAB	3.3	0.49	3.3	-0.34	<0.2	bld	18.7	-0.06	4.4	-0.31	6.5	-0.32	<0.2	bld	16.4	-1.21	1.1	1.74	0.7	-0.27	AR	AAS
COMLAB	2.9	-0.70	3.5	0.02	<0.2	bld	18.5	-0.24	4.3	-0.55	6.5	-0.32	<0.2	bld	17.2	-0.60	0.6	-1.48	0.4	-1.39	AR	ES
COMLAB	3.0	-0.40	3.2	-0.52	nr	nr	18.0	-0.74	4.3	-0.50	6.4	-0.45	nr	nr	17.9	-0.06	0.8	-0.07	0.9	0.29	AR	MS
COMLAB	2.9	-0.70	3.6	0.13	0.9	0.06	18.0	-0.73	4.3	-0.64	6.3	-0.68	<0.02	bld	18.6	0.48	0.9	0.19	0.7	-0.31	AR	ES
COMLAB	11.9	3.00	32.1	3.00	25.0	3.00	69.2	3.00	33.0	3.00	26.1	3.00	13.5	3.00	46.9	3.00	15.6	3.00	20.5	3.00	AR	AAS
COMLAB	3.3	0.49	3.7	0.39	<0.1	bld	18.4	-0.33	4.2	-0.78	7.2	0.98	<0.1	bld	19.3	1.00	1.1	1.74	0.7	-0.27	AR	ICP
COMLAB	3.3	0.49	3.4	-0.16	<0.3	bld	20.7	1.74	4.1	-1.02	5.7	-1.82	<0.3	bld	16.8	-0.90	0.9	0.45	0.9	0.47	AR	ES
COMLAB	2.9	-0.70	2.9	-1.07	<0.1	bld	19.6	0.75	4.5	-0.07	7.0	0.61	<0.1	bld	17.2	-0.60	0.6	-1.48	0.8	0.10	AR	ES
COMLAB	3.2	0.20	4.2	1.30	<0.5	bld	19.2	0.39	4.3	-0.55	7.1	0.80	<0.5	bld	18.1	0.09	0.8	-0.20	0.8	0.10	AR	AAS
COMLAB	<5.0	bld	<5.0	bld	<5.0	bld	22.7	3.00	<5.0	bld	6.5	-0.40	<5.0	bld	18.1	0.06	<5.0	bld	<5.0	bld	AR	AAS
COMLAB	3.3	0.49	3.7	0.39	<0.5	bld	18.4	-0.33	4.4	-0.43	6.5	-0.32	<0.5	bld	16.3	-1.28	0.9	0.64	0.8	-0.05	AR	AAS
COMLAB	2.7	-1.44	3.4	-0.18	<0.5	bld	19.0	0.22	4.1	-1.12	6.3	-0.64	<0.5	bld	17.6	-0.30	0.9	0.19	0.6	-0.68	AR	ICP
COMLAB	3.0	-0.31	3.4	-0.14	<0.05	bld	19.4	0.57	4.3	-0.59	6.4	-0.47	<0.05	bld	18.2	0.20	0.7	-0.58	0.5	-1.13	AR	MS
COMLAB	3.1	0.02	3.7	0.30	<0.1	bld	18.0	-0.69	4.5	-0.02	6.2	-0.81	<0.1	bld	18.5	0.39	0.7	-0.71	0.6	-0.57	AR	AAS
COMLAB	3.0	-0.40	3.0	-0.88	<1.0	bld	20.0	1.11	4.0	-1.26	6.0	-1.26	<1.0	bld	19.0	0.77	<1.0	bld	<1.0	bld	AR	ES
COMLAB	3.3	0.49	3.9	0.75	<0.2	bld	18.9	0.12	5.3	1.83	7.4	1.36	<0.2	bld	17.4	-0.44	0.9	0.45	0.7	-0.27	AR	ES
COMLAB	1.6	-3.00	2.2	-2.34	<0.5	bld	19.8	0.93	5.2	1.59	6.6	-0.14	0.6	0.90	15.9	-1.59	<0.5	bld	<0.5	bld	1A	ICP
COMLAB	2.7	-1.29	3.0	-0.88	bld	bld	17.9	-0.78	4.7	0.40	6.0	-1.26	bld	bld	17.7	-0.22	0.8	-0.20	0.7	-0.27	AR	ES
COMLAB	3.5	1.00	3.7	0.33	<0.3	bld	19.4	0.53	4.6	0.17	6.5	-0.29	<0.3	bld	17.1	-0.65	0.9	0.19	0.7	-0.27	AR	AAS
COMLAB	3.3	0.49	3.2	-0.52	<1.0	bld	18.8	0.03	4.7	0.40	6.3	-0.70	<1.0	bld	18.2	0.17	<1.0	bld	<1.0	bld	3A	AAS
COMLAB	3.6	1.45	4.0	0.99	<0.3	bld	20.2	1.29	5.1	1.33	7.4	1.26	0.3	-0.31	18.5	0.39	0.9	0.32	1.0	0.70	3A	AAS
COMLAB	3.4	0.79	3.7	0.39	<0.2	bld	20.1	1.20	4.5	-0.07	6.3	-0.70	<0.2	bld	15.3	-2.04	0.8	-0.20	0.6	-0.65	AR	AAS
COMLAB	2.8	-0.99	2.8	-1.25	nr	nr	17.3	-1.32	5.8	3.00	7.3	1.17	0.8	1.71	19.5	1.16	2.0	3.00	1.5	2.71	3A	AAS
COMLAB	2.7	-1.26	3.4	-0.14	<0.5	bld	17.8	-2.68	4.6	0.26	7.9	2.33	<0.5	bld	17.9	-0.06	0.6	-1.48	<0.5	bld	AR	AAS
COMLAB	2.8	-0.99	4.0	0.93	0.1	-1.13	16.8	-1.77	3.8	-1.73	5.6	-2.00	<0.1	bld	14.9	-2.35	0.8	-0.20	0.6	-0.65	AR	MS
COMLAB	2.9	-0.70	3.3	-0.34	0.1	-1.13	18.4	-0.33	4.4	-0.31	6.7	0.05	<0.1	bld	18.1	0.09	0.9	0.45	0.7	-0.27	AR	MS
COMLAB	2.4	-2.10	2.6	-1.56	<2.0	bld	17.3	-1.37	3.6	-2.30	6.7	-0.02	<2.0	bld	14.9	-2.32	<2.0	bld	<2.0	bld	AR	ES
COMLAB	3.0	-0.40	3.0	-0.88	<1.0	bld	20.0	1.11	5.0	1.12	7.0	0.61	<1.0	bld	17.0	-0.75	<1.0	bld	<1.0	bld	2A,3A	AAS,ES
COMLAB	3.1	-0.10	3.1	-0.70	0.5	-0.52	18.6	-0.15	4.4	-0.31	6.7	0.05	0.2	-0.72	19.0	0.77	0.6	-1.48	0.4	-1.39	AR	ES
COMLAB	3.8	1.98	3.2	-0.52	0.6	-0.36	23.0	3.00	6.0	3.00	8.6	3.00	<0.2	bld	23.6	3.00	1.0	1.09	1.2	1.59	AR	ES
COMLAB	2.7	-1.29	3.1	-0.70	1.0	0.24	17.8	-0.87	4.0	-1.26	5.9	-1.44	<0.5	bld	17.3	-0.52	1.1	1.74	0.6	-0.65	3A	AAS
COMLAB	3.5	1.09	4.4	1.66	0.5	-0.52	19.1	0.30	5.1	1.35	6.6	-0.14	0.5	0.50	18.5	0.39	1.3	3.00	1.3	1.97	3A	AAS

Standard Deviations



Standard Deviations



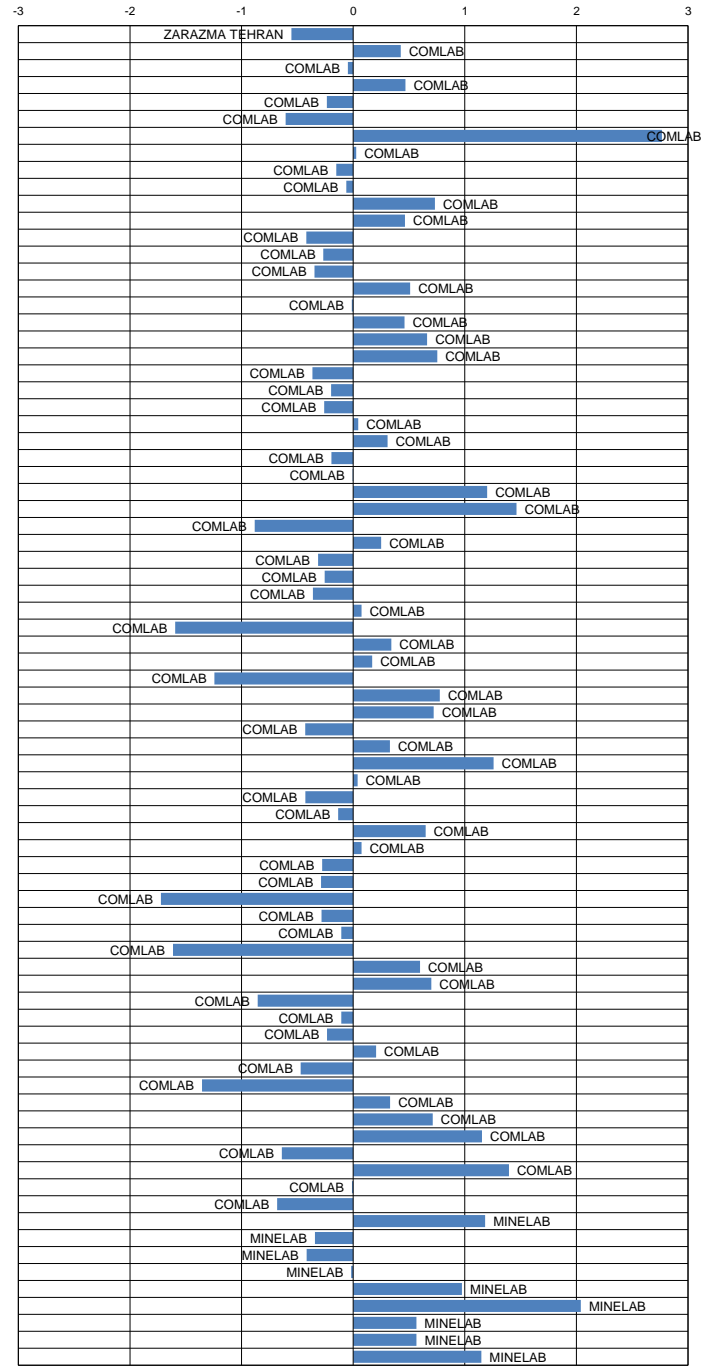
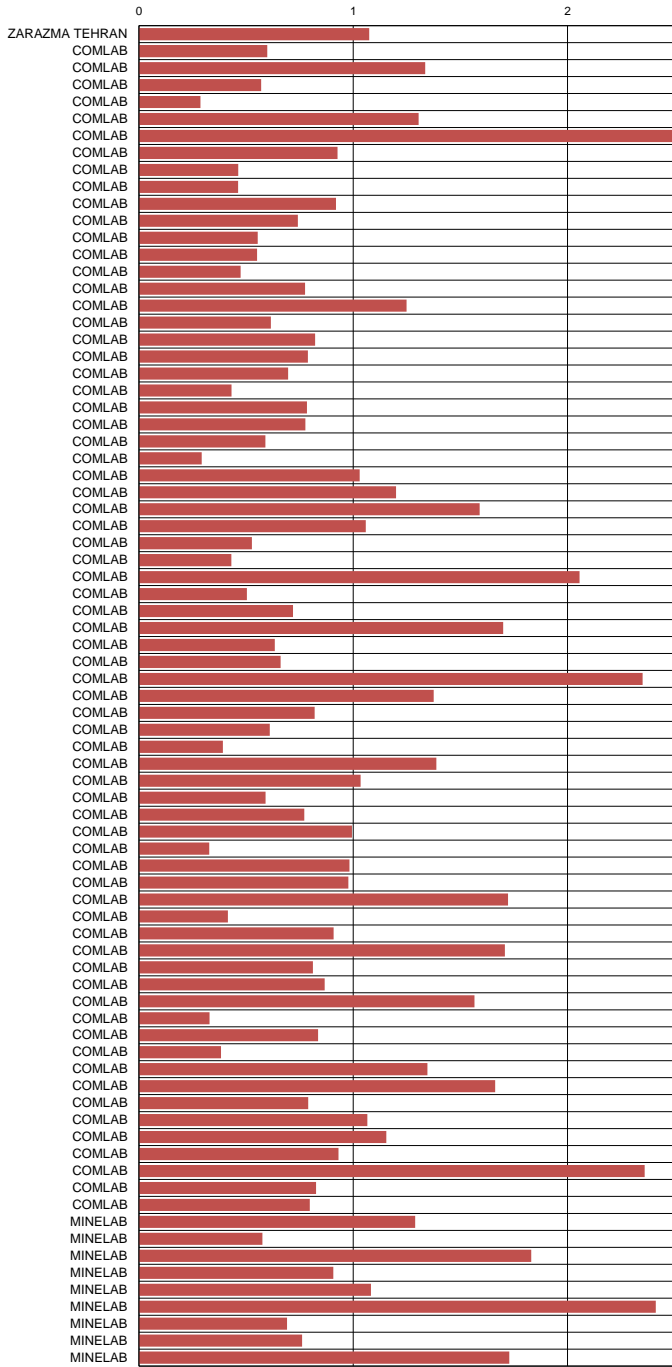
Copper (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2018

Standard Reference	GBM318-1	GBM318-2	GBM318-3	GBM318-4	GBM318-5	GBM318-6	GBM318-7	GBM318-8	GBM318-9	GBM318-10
MEAN (ppm)	1187	2149	54	24208	2993	2446	3	17336	1076	872
STDEV (ppm)	59	98	7	629	126	106	1	588	45	30
95% CI (ppm)	14	23	2	160	29	24	0	149	11	7
95% CI (%)	1.15%	1.07%	3.32%	0.66%	0.98%	0.99%	15.22%	0.86%	0.98%	0.80%
MIN (ppm)	1076	1918	36	22941	2665	2218	1	16200	955	795
MEDIAN (ppm)	1178	2157	54	24225	2999	2465	2	17297	1080	876
MAX (ppm)	1337	2393	73	25700	3260	2686	5	18781	1182	940
IQR (ppm)	81	109	7	930	161	119	1	748	47	34
COUNT	72	72	65	60	72	74	31	61	72	71

Standard Reference	GBM318-1		GBM318-2		GBM318-3		GBM318-4		GBM318-5		GBM318-6		GBM318-7		GBM318-8		GBM318-9		GBM318-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA TEHRAN	1150	-0.63	2098	-0.52	46	-1.10	22941	-2.01	2930	-0.50	2283	-1.55	4	1.65	16339	-1.70	1070	-0.14	901	0.95	4A	ES
COMLAB	1250	1.07	2200	0.52	62	1.05	24000	-0.33	3060	0.53	2390	-0.53	4	1.37	17600	0.45	1080	-0.08	874	0.05	4A	ICP
COMLAB	1160	-0.46	2020	-1.31	50	-0.58	31000	3.00	2850	-1.14	2200	-2.33	3	0.44	22900	3.00	1050	-0.58	857	-0.52	4A	ICP AAS
COMLAB	1160	-0.46	2200	0.52	60	0.77	24500	0.47	3040	0.37	2560	1.08	<10	bld	17800	0.79	1080	-0.08	890	0.59	4A	ICP
COMLAB	1194	0.12	2160	0.12	54	-0.04	24088	-0.19	2890	-0.82	2349	-0.92	<2	bld	17295	-0.07	1072	-0.09	866	-0.22	4A	AAS
COMLAB	1120	-1.14	2050	-1.00	58	0.50	22300	-3.00	2950	-0.34	2390	-0.53	13	3.00	16400	-1.59	1030	-1.02	845	-0.92	FUS	ICP
COMLAB	1423	3.00	2494	3.00	86	3.00	25622	2.25	3543	3.00	3069	3.00	151	3.00	19743	3.00	1140	1.41	969	3.00	4A	ES
COMLAB	1170	-0.29	2011	-1.40	58	0.50	25312	1.76	2908	-0.68	2343	-0.97	4	1.37	18005	1.14	1041	-0.77	861	-0.39	4A	ES
COMLAB	1230	0.73	2120	-0.29	54	-0.04	23900	-0.49	2960	-0.27	2460	0.13	1	-1.42	17000	-0.57	1090	0.30	884	0.39	4A	ES
COMLAB	1160	-0.46	2130	-0.19	53	-0.18	23800	-0.65	3060	0.53	2550	0.98	2	-0.49	16950	-0.66	1090	0.30	878	0.19	4A	ES
COMLAB	1257	1.19	2130	-0.19	65	1.45	>10000	ald	3187	1.54	2861	2.03	2	-0.49	>10000	ald	1073	-0.07	884	0.39	4A	ES
COMLAB	1260	1.24	2080	-0.70	54	-0.04	23800	-0.65	3120	1.01	2460	0.13	6	3.00	17400	0.11	1080	-0.08	886	0.45	4A	ES
COMLAB	1150	-0.63	2110	-0.39	50	-0.58	23600	-0.97	2940	-0.42	2470	0.23	3	0.44	16800	-0.91	1050	-0.58	861	-0.39	4A	ES
COMLAB	1140	-0.80	2080	-0.70	55	0.09	23500	-1.12	3060	0.53	2530	0.80	2	-0.49	17300	-0.06	1055	-0.47	859	-0.45	4A	ICP
COMLAB	1194	0.12	2157	0.09	57	-3.00	24056	-0.24	2987	-0.05	2469	0.22	<1	bld	17115	-0.38	1075	-0.03	877	0.15	4A	ES
COMLAB	1260	1.24	2200	0.52	27	-0.45	25400	1.90	3060	0.53	2540	0.89	2	-0.49	17950	1.04	1090	0.30	861	-0.39	4A	ES
COMLAB	1160	-0.46	2240	0.93	38	-2.21	24700	0.78	3080	0.69	2520	0.70	<5	bld	17700	0.62	1160	1.85	777	-3.00	4A	ES
COMLAB	1200	0.22	2220	0.73	58	0.50	>10000	ald	3110	0.93	2830	1.74	2	-0.49	>10000	ald	1070	-0.14	878	0.19	4A	ES
COMLAB	1189	0.03	2134	-0.15	64	1.32	>10000	ald	3123	1.03	2542	0.91	2	-0.49	>10000	ald	1124	1.05	920	1.60	4A	ES
COMLAB	1210	0.39	2190	0.42	53	-0.18	24600	0.62	3180	1.48	2480	0.32	4	1.37	17400	0.11	1130	1.18	926	1.80	4A	ES
COMLAB	1140	-0.80	2160	-0.12	51	-0.45	23200	-1.60	3040	0.37	2450	0.04	<1	bld	16450	-1.51	1120	0.96	860	-0.42	4A	ES
COMLAB	1160	-0.46	2080	-0.70	53	-0.18	24000	-0.33	3100	0.85	2480	0.32	2	-0.49	17000	-0.57	1070	-0.14	864	-0.29	4A	ES
COMLAB	1290	1.75	2090	-0.59	47	-0.94	23800	-0.65	2970	-0.19	2510	0.61	nr	nr	17050	-0.49	1030	-1.02	848	-0.82	4A	ES,MS
COMLAB	1170	-0.29	2177	0.29	54	-0.04	>10000	ald	2959	-0.27	2325	-1.14	6	3.00	>10000	ald	1048	-0.62	856	-0.55	4A	ES
COMLAB	1282	1.62	2158	0.09	59	0.61	24250	0.07	3036	0.34	2428	-0.17	1	-1.23	17980	1.09	1086	0.21	886	0.47	4A	ICP
COMLAB	1170	-0.29	2180	0.32	53	-0.18	23500	-1.12	2970	-0.19	2450	0.04	<2	bld	17200	-0.23	1080	0.08	867	-0.18	4A	ES
COMLAB	1159	-0.48	2047	-1.03	50	-0.58	24292	0.13	2819	-1.39	2505	0.56	57	3.00	17297	-0.07	1002	-1.63	915	1.43	4A	AAS
COMLAB	1233	0.78	2200	0.52	66	1.59	24627	0.67	3036	0.34	2519	0.69	18	3.00	17404	0.11	1213	3.00	911	1.30	4A	AAS
COMLAB	1330	2.44	2330	1.84	70	2.13	23900	-0.49	3100	0.85	2540	0.89	30	3.00	17250	-0.15	1160	1.85	940	2.27	4A	AAS
COMLAB	1149	-0.66	2046	-1.04	<50	bld	24650	0.70	2816	-1.41	2327	-1.12	<50	bld	16668	-1.14	1042	-0.76	824	-1.64	4A	AAS
COMLAB	1203	0.27	2196	0.48	62	1.05	24477	0.43	2973	-0.16	2430	-0.15	<10	bld	16788	-0.93	1095	0.41	898	0.86	4A	ES
COMLAB	1150	-0.63	2200	0.52	52	-0.31	23300	-1.44	2990	-0.03	2430	-0.15	<2	bld	17000	-0.57	1070	-0.14	870	-0.08	4A	ES
COMLAB	1149	-0.65	1923	-2.29	82	3.00	20555	-3.00	2785	-1.86	2224	-2.10	89	3.00	24603	3.00	1050	-0.58	834	-1.28	4A	AAS
COMLAB	1130	-0.97	2103	-0.46	57	0.37	24279	0.11	3014	0.16	2372	-0.70	<2	bld	17252	-0.14	1048	-0.62	843	-0.99	4A	ES
COMLAB	1287	1.70	2101	-0.48	51	-0.45	24640	0.69	2965	-0.23	2395	-0.48	2	-0.68	17740	0.69	1035	-0.91	899	0.89	4A	ES
COMLAB	1089	-1.67	1955	-1.97	52	-0.31	22070	-3.00	2566	-3.00	2109	-3.00	3	0.44	14780	-3.00	1080	0.08	857	-0.52	4A	MS
COMLAB	1235	0.82	2248	1.01	54	-0.04	24567	0.57	3057	0.51	2517	0.67	1	-1.42	17660	0.55	1099	0.50	880	0.25	4A	AAS
COMLAB	1134	-0.90	2121	-0.28	55	0.09	23715	-0.78	3035	0.33	2469	0.22	2	-0.49	19165	3.00	1094	0.39	876	0.12	4A	ICP
COMLAB	970	-3.00	1840	-3.00	73	2.54	20700	-3.00	2790	-1.62	2220	-2.14	130	3.00	14800	-3.00	1010	-1.46	850	-0.76	4A	AAS
COMLAB	1337	2.55	2157	0.08	32	-3.00	24734	0.84	3005	0.09	2490	0.42	51	3.00	18649	2.23	1118	0.92	891	0.62	4A	ES
COMLAB	1235	0.82	2246	0.99	58	0.50	24613	0.64	3103	0.87	2546	0.95	2	-0.49	17929	1.01	1111	0.77	907	1.16	4A	MS,AAS
COMLAB	1150	-0.63	2170	0.22	57	0.37	23700	-0.81	2870	-0.98	2420	-0.25	1	-1.61	17000	-0.57	1060	-0.36	882	0.32	4A	MS
COMLAB	1214	0.46	2167	0.19	57	0.37	24100	-0.17	2992	-0.01	2432	-0.13	4	1.37	17400	0.11	1089	0.28	897	0.82	4A	ES
COMLAB	1257	1.19	2234	0.87	86	3.00	24235	0.04	3056	0.50	2590	1.36	60	3.00	16957	-0.65	1152	1.67	920	1.60	4A	AAS
COMLAB	1120	-1.14	2380	2.35	58	0.50	24500	0.47	3120	1.01	2500	0.51	<1	bld	17300	-0.06	1020	-1.24	812	-2.03	4A	ES
COMLAB	1182	-0.09	2092	-0.57	48	-0.86	23788	-0.67	2906	-0.69	2391	-0.52	2	-0.49	17813	0.81	1057	-0.42	849	-0.79	4A	ICP
COMLAB	1154	-0.56	2103	-0.46	36	-2.48	>20000	ald	3176	1.45	2504	0.55	<1	bld	17582	0.42	1082	0.13	869	-0.12	4A	ES
COMLAB	1184	-0.05	2326	1.80	45	-1.24	24840	1.01	3092	0.78												

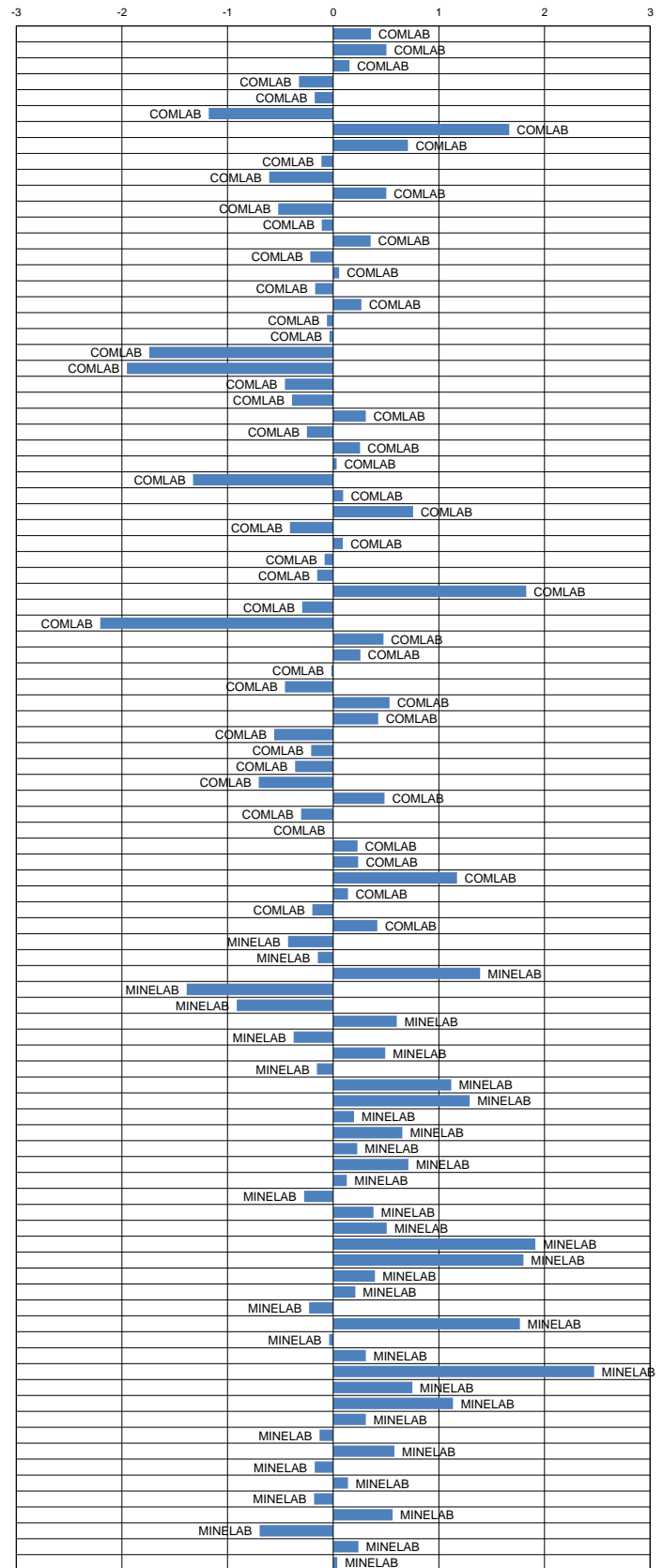
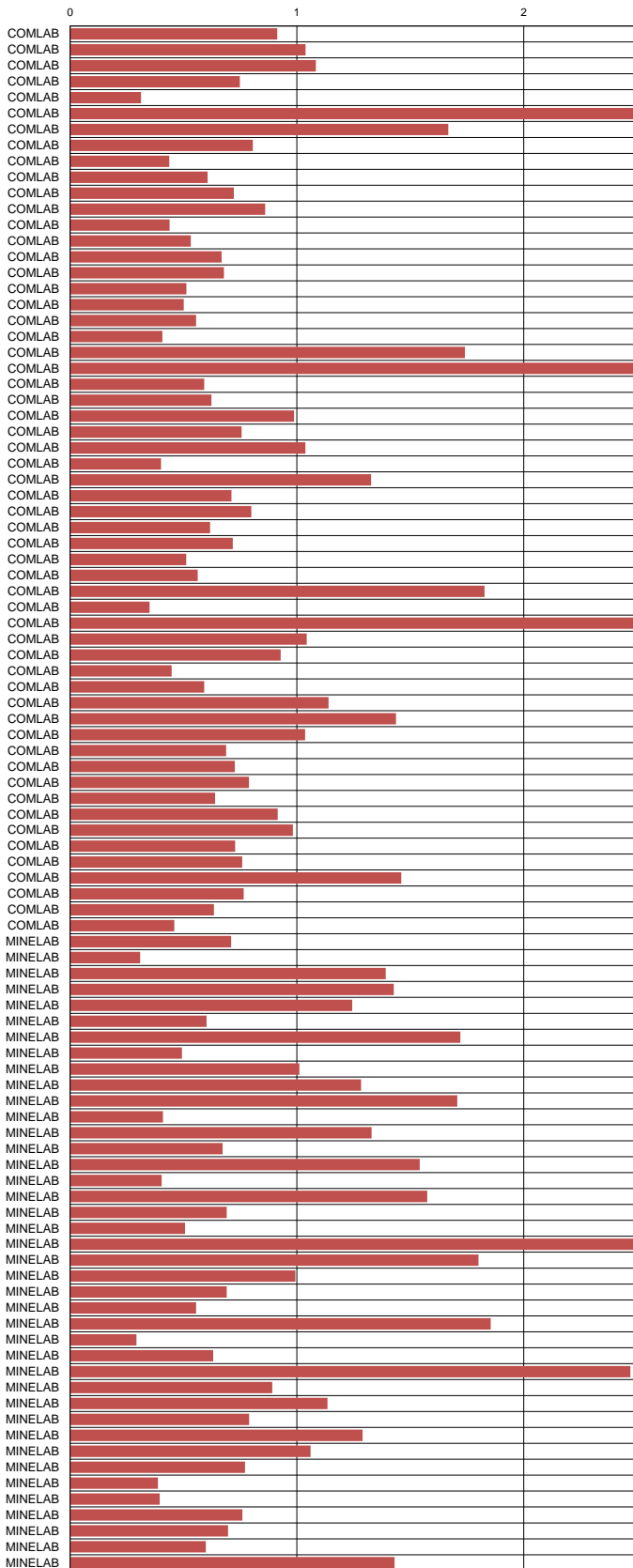
Standard Deviations

Standard Deviations



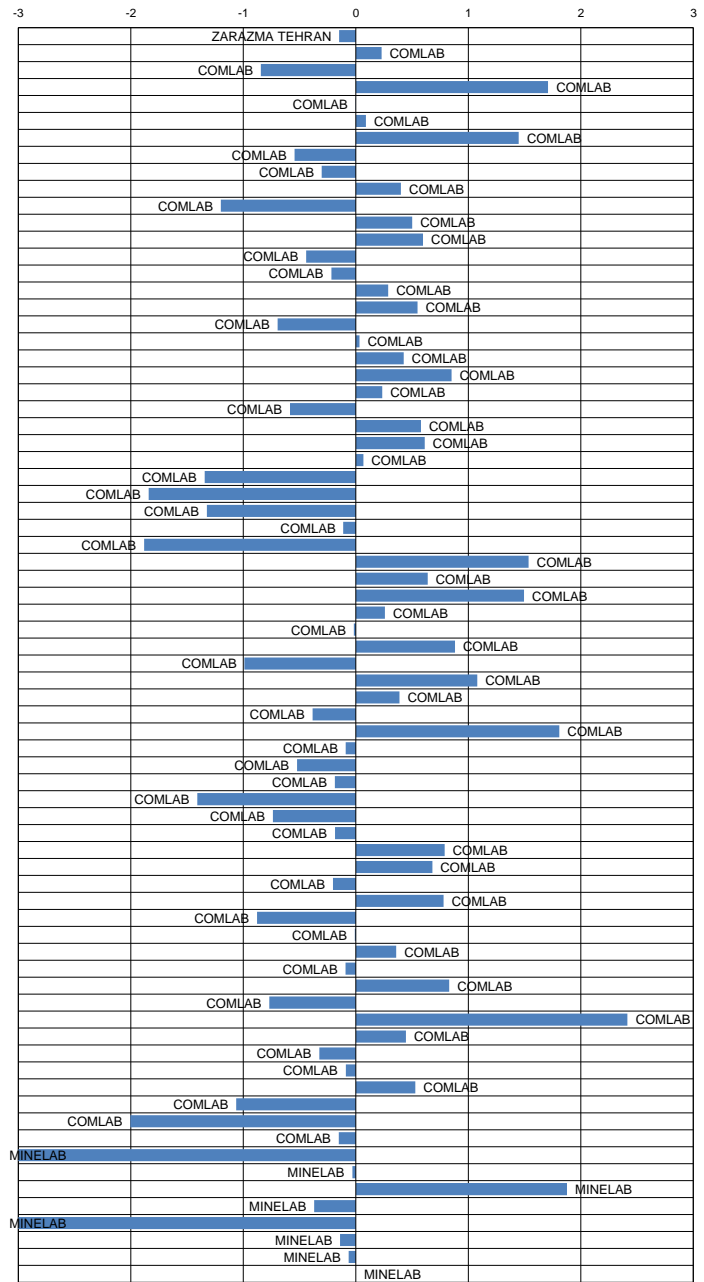
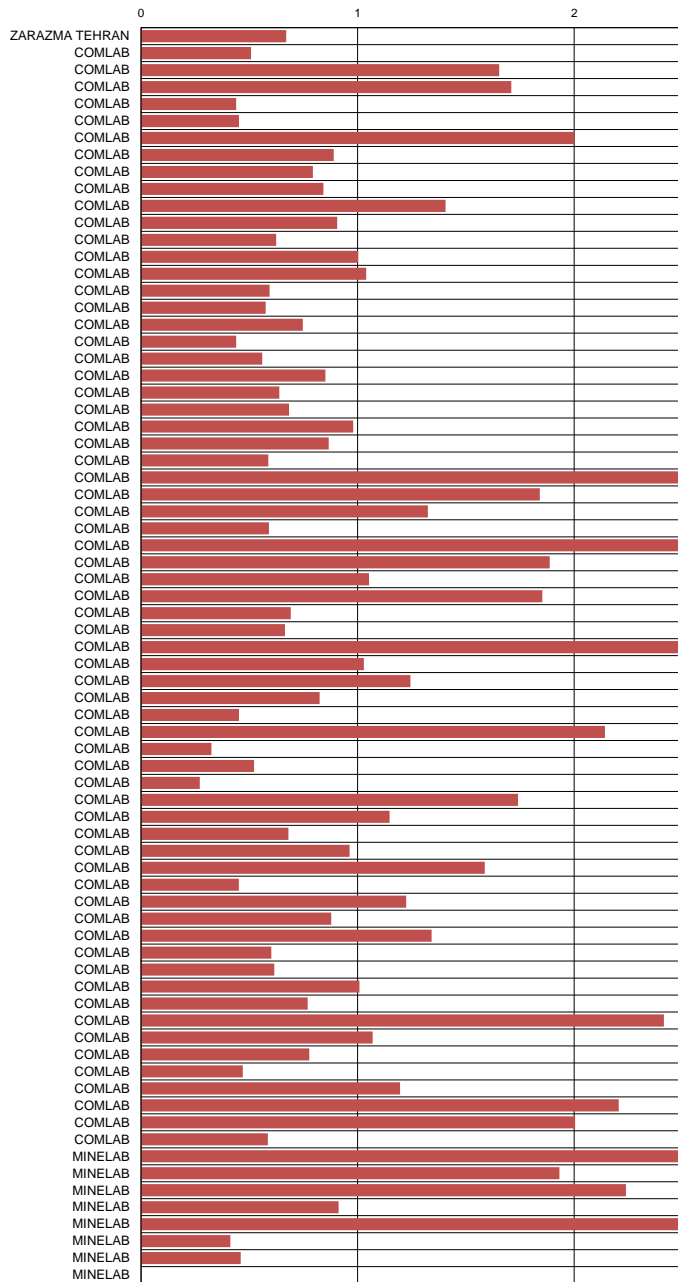
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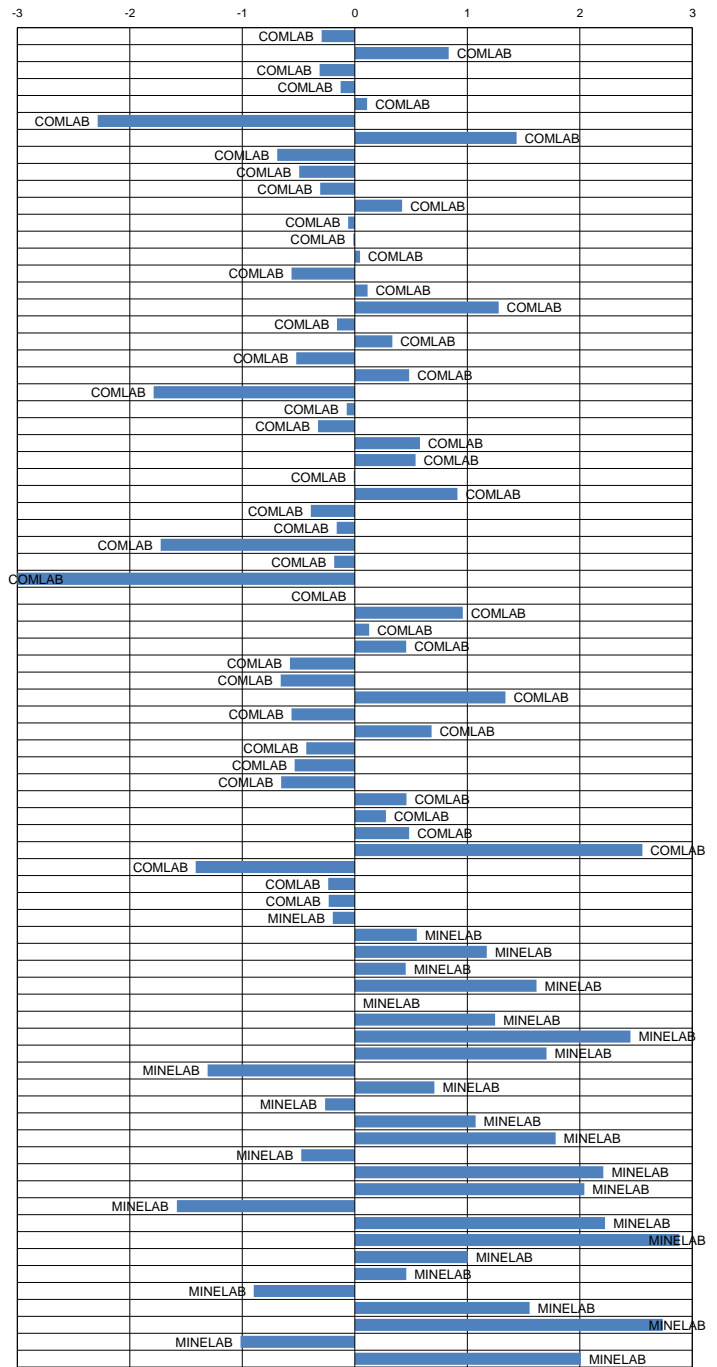
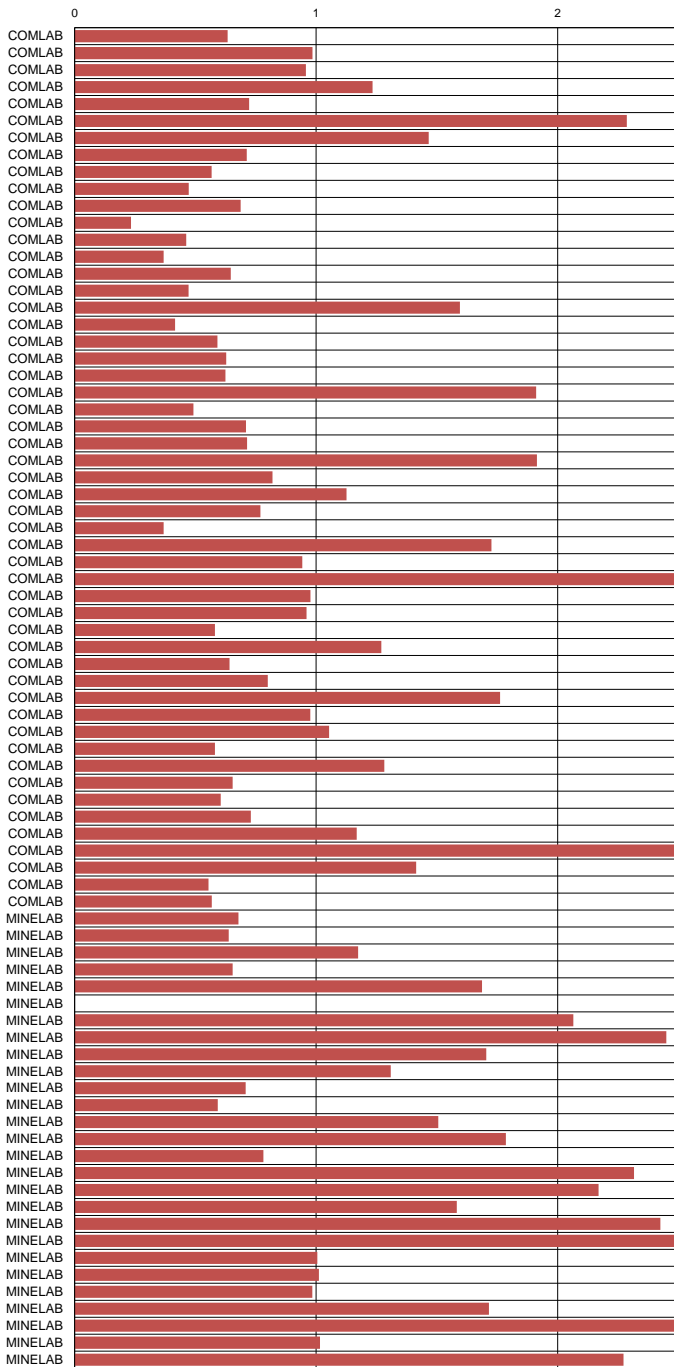
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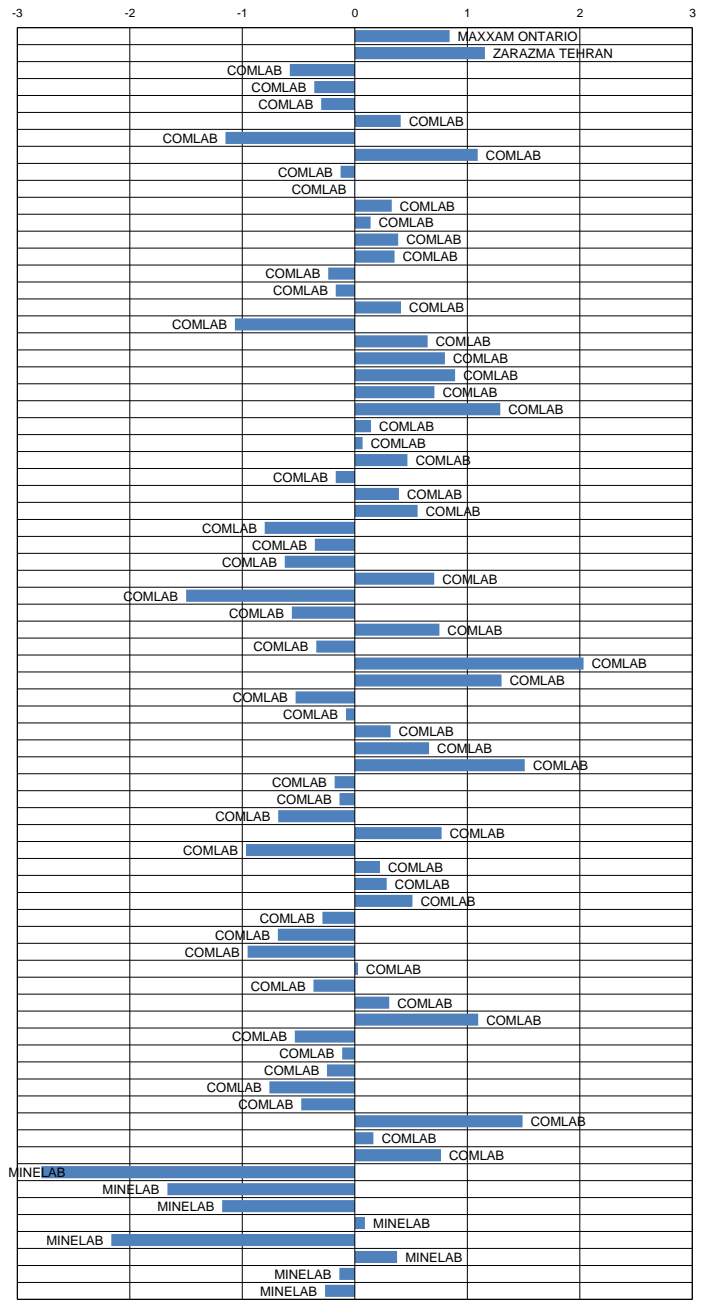
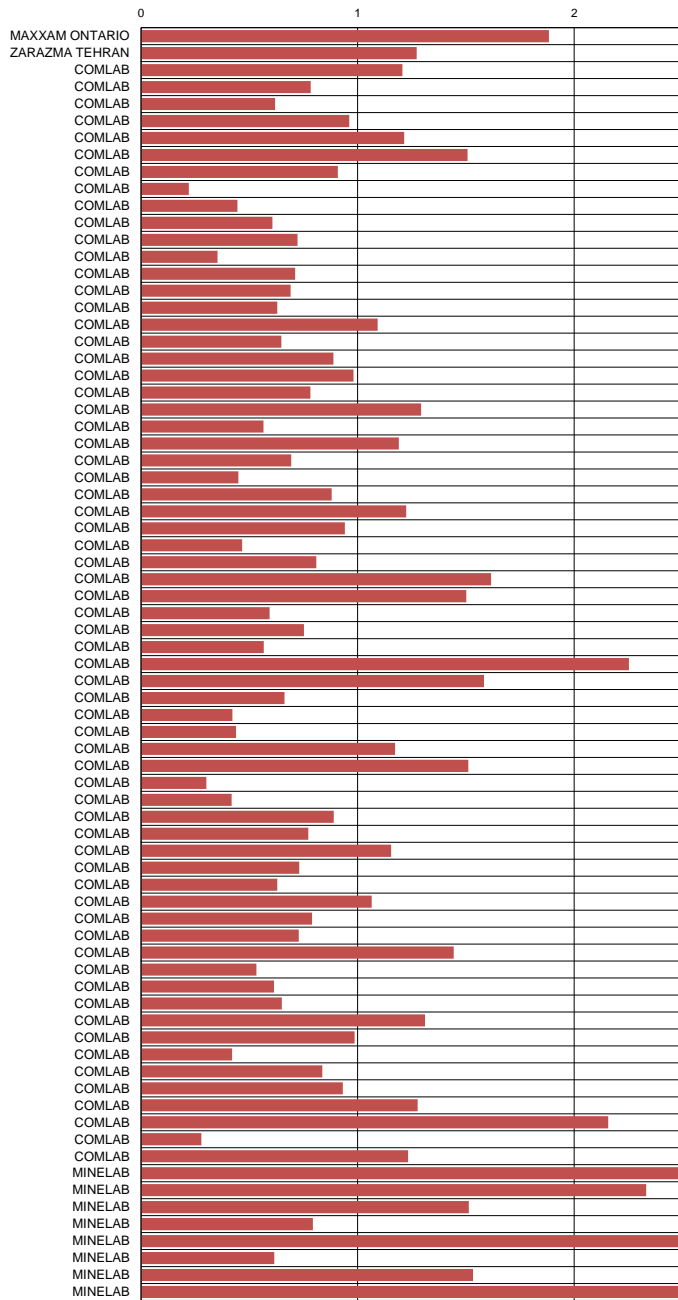
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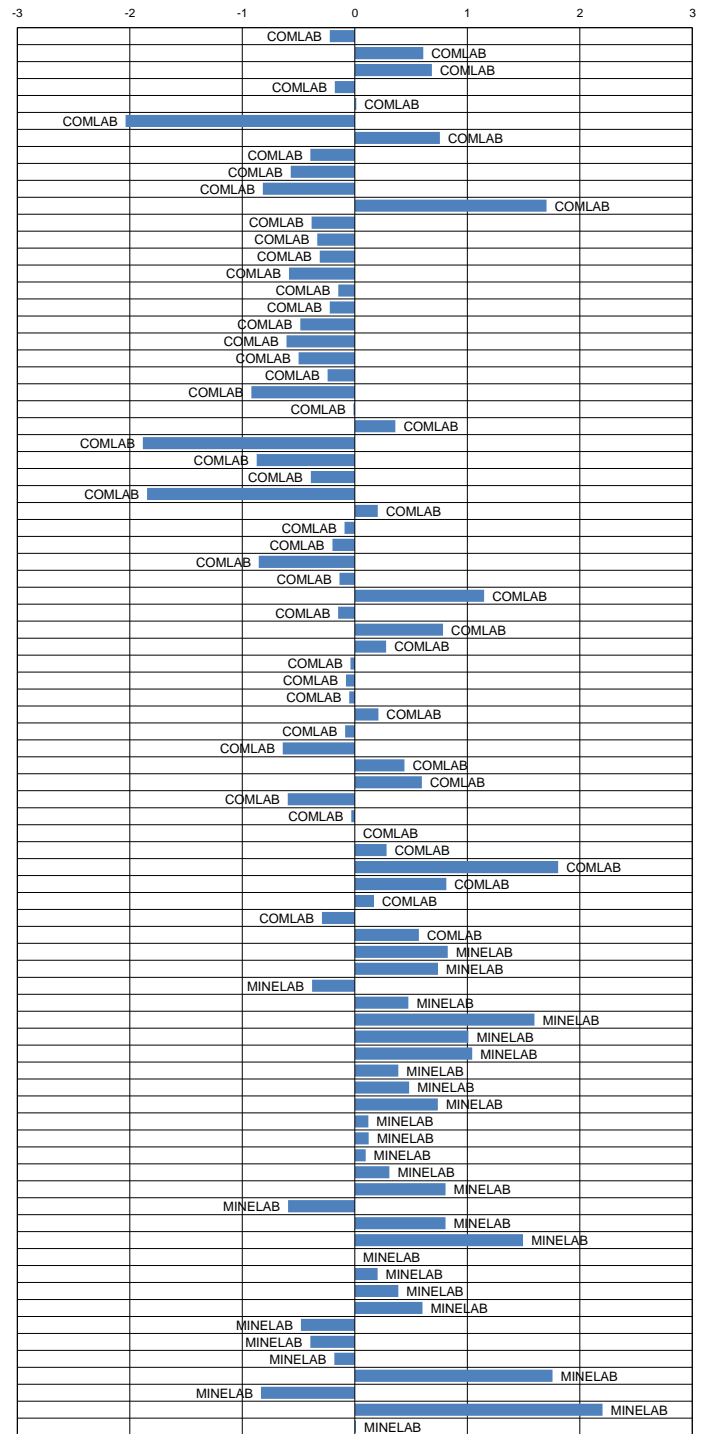
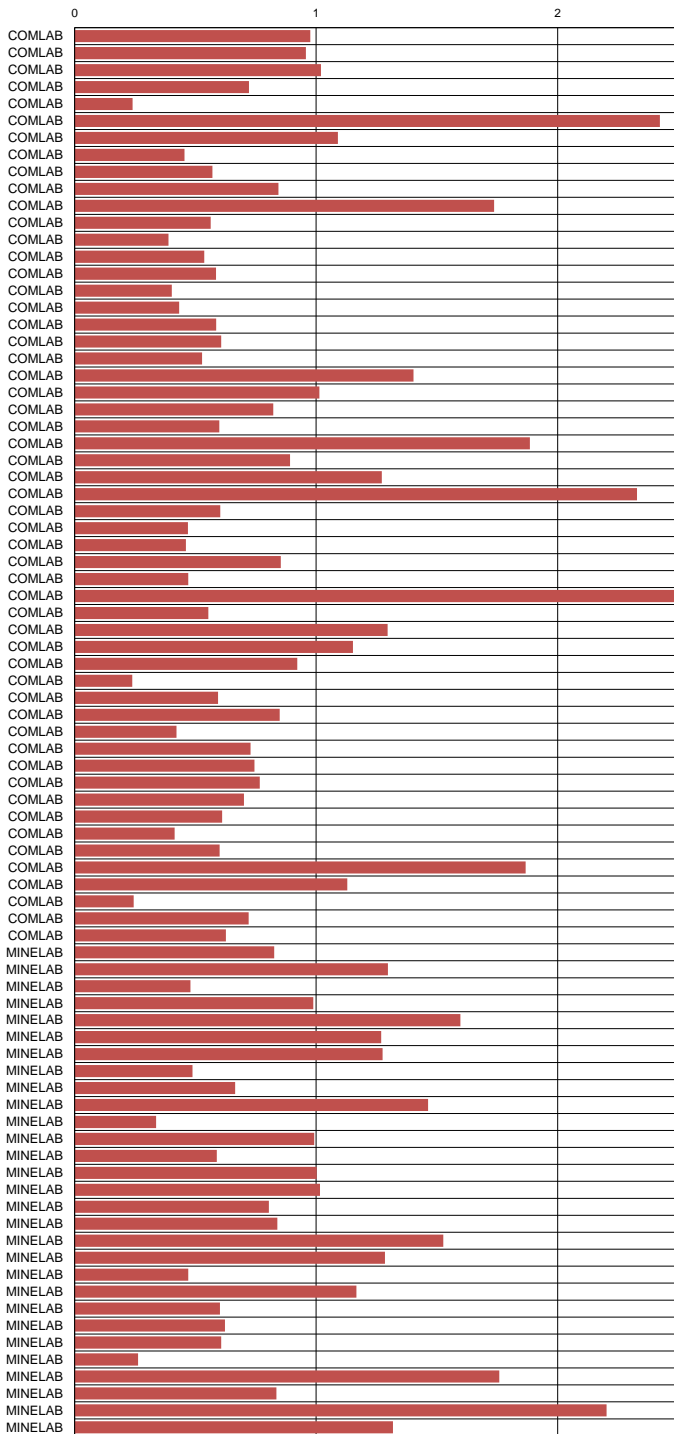
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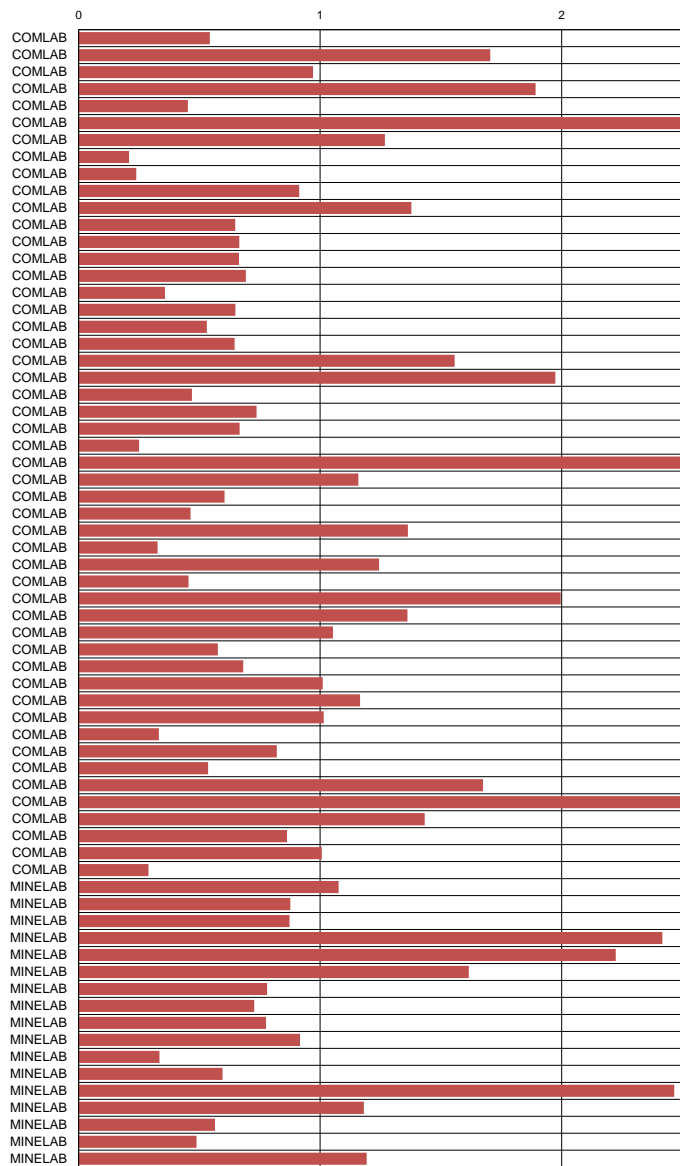


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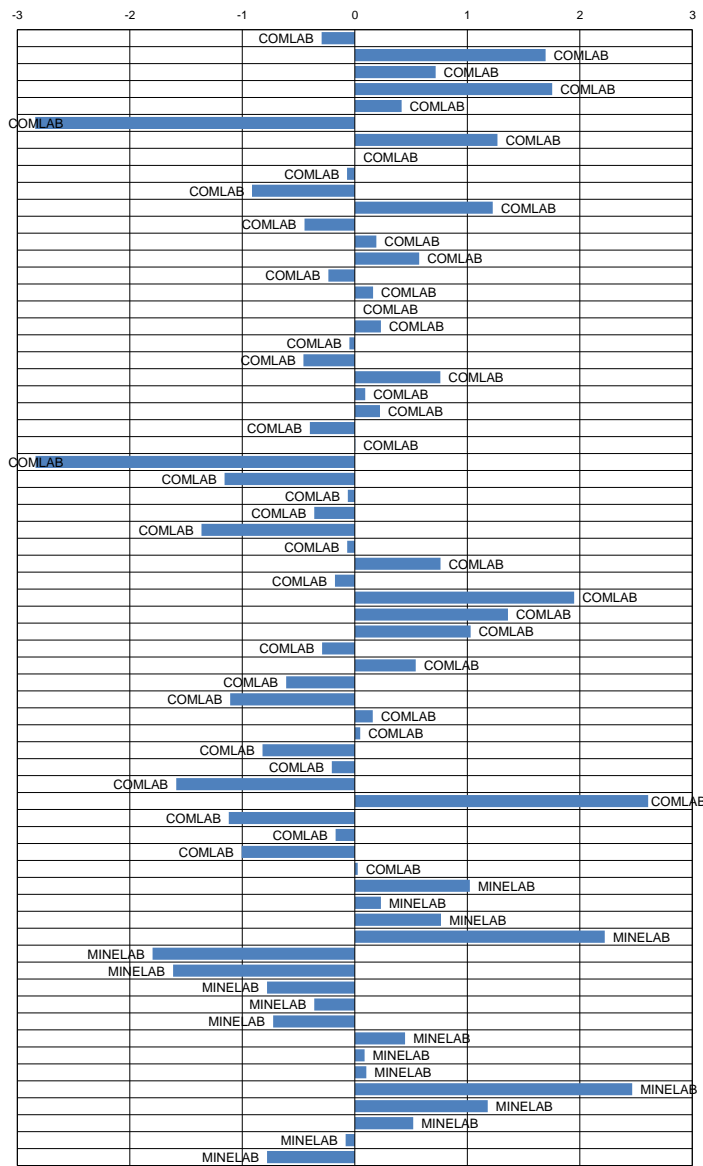
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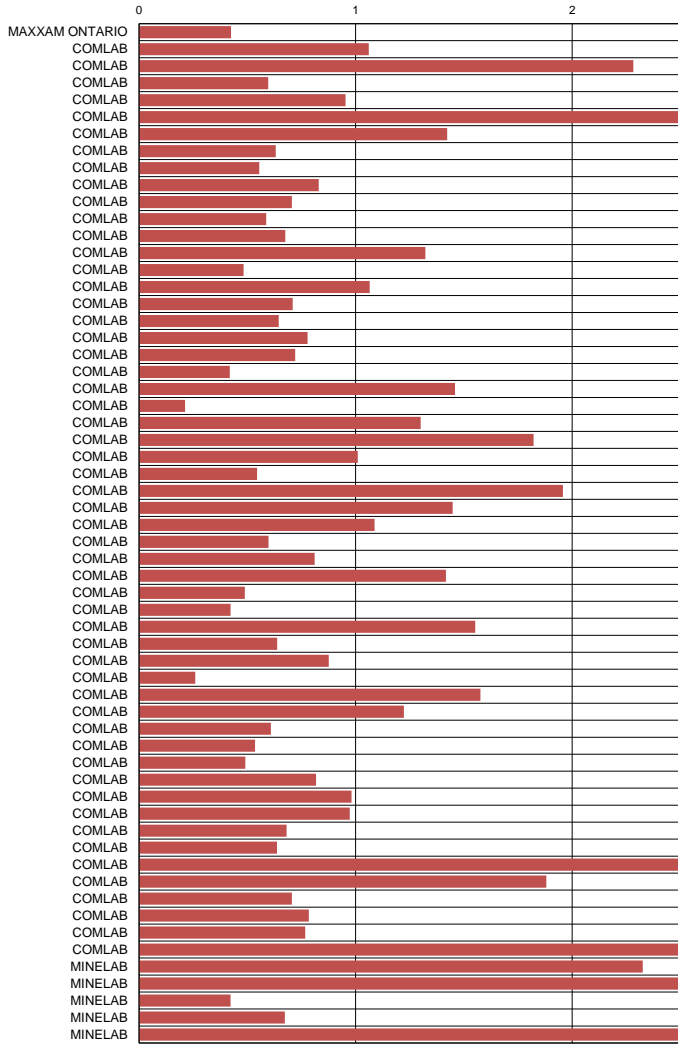
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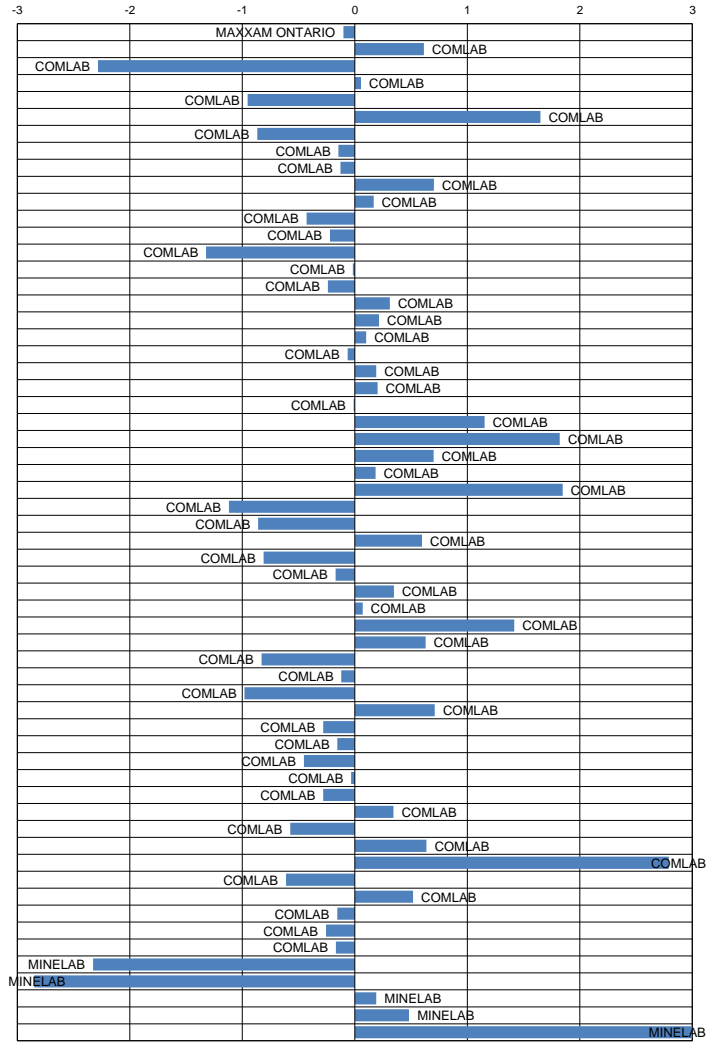
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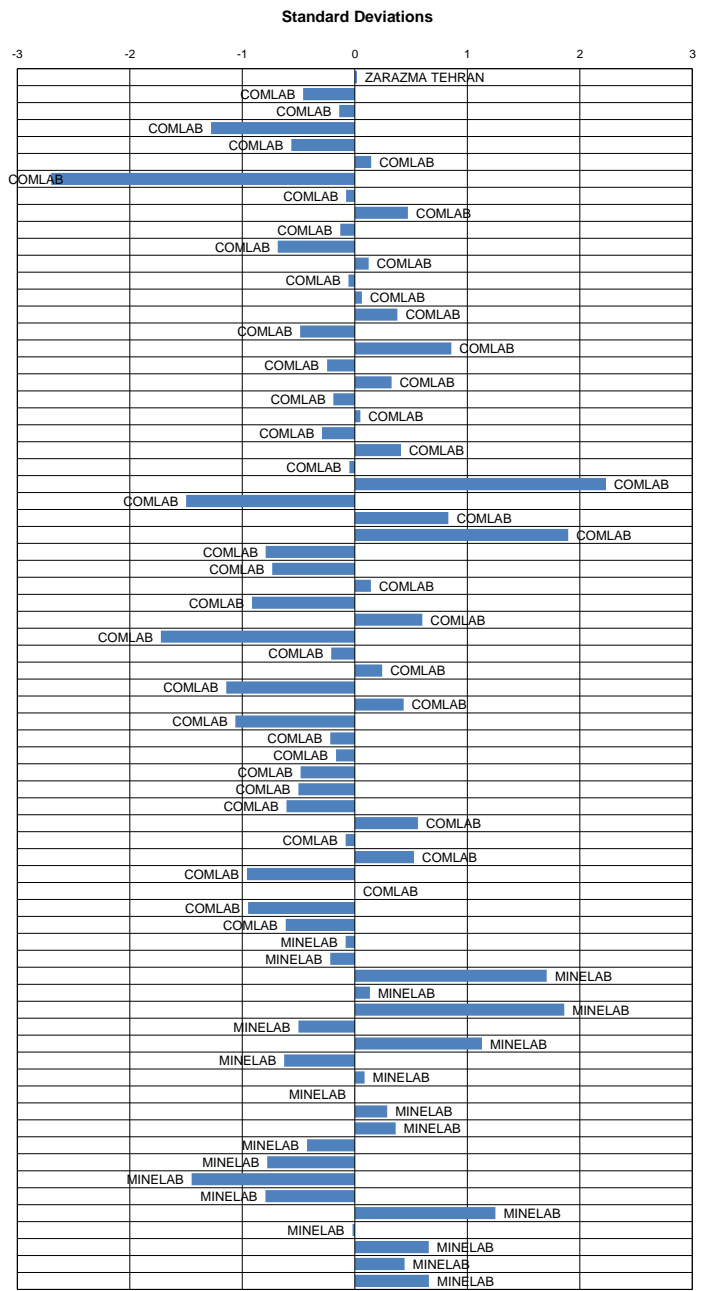
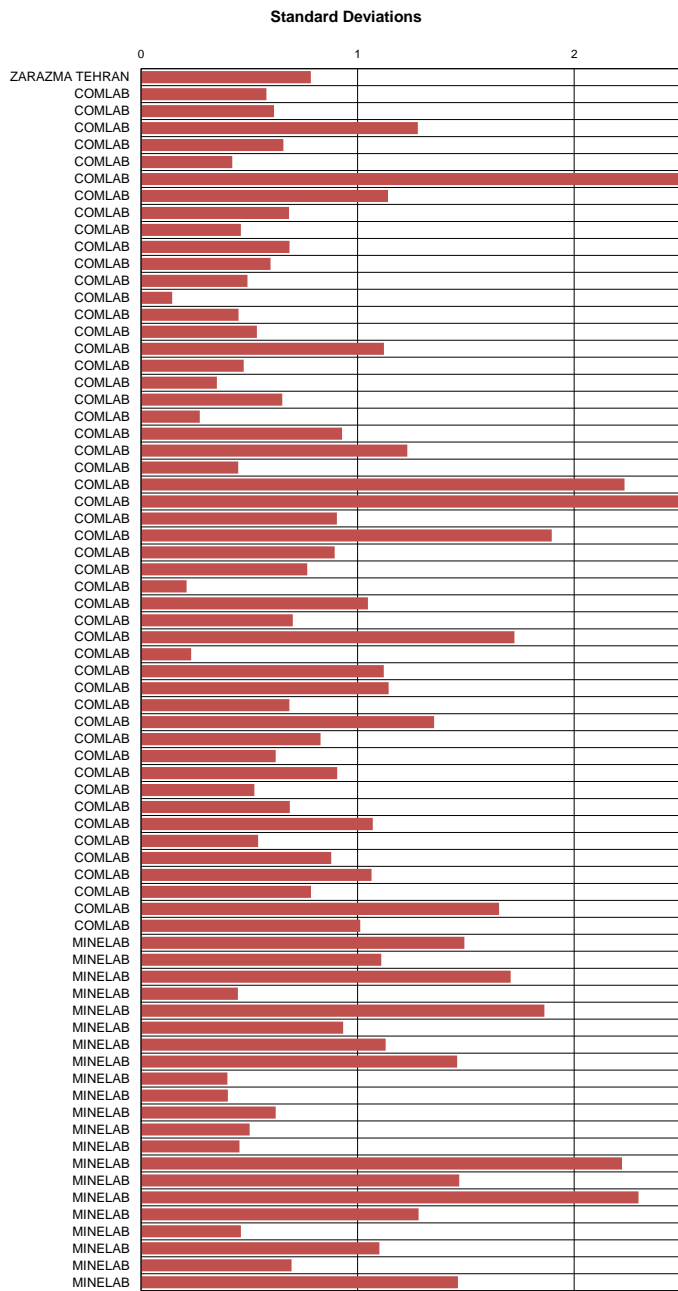


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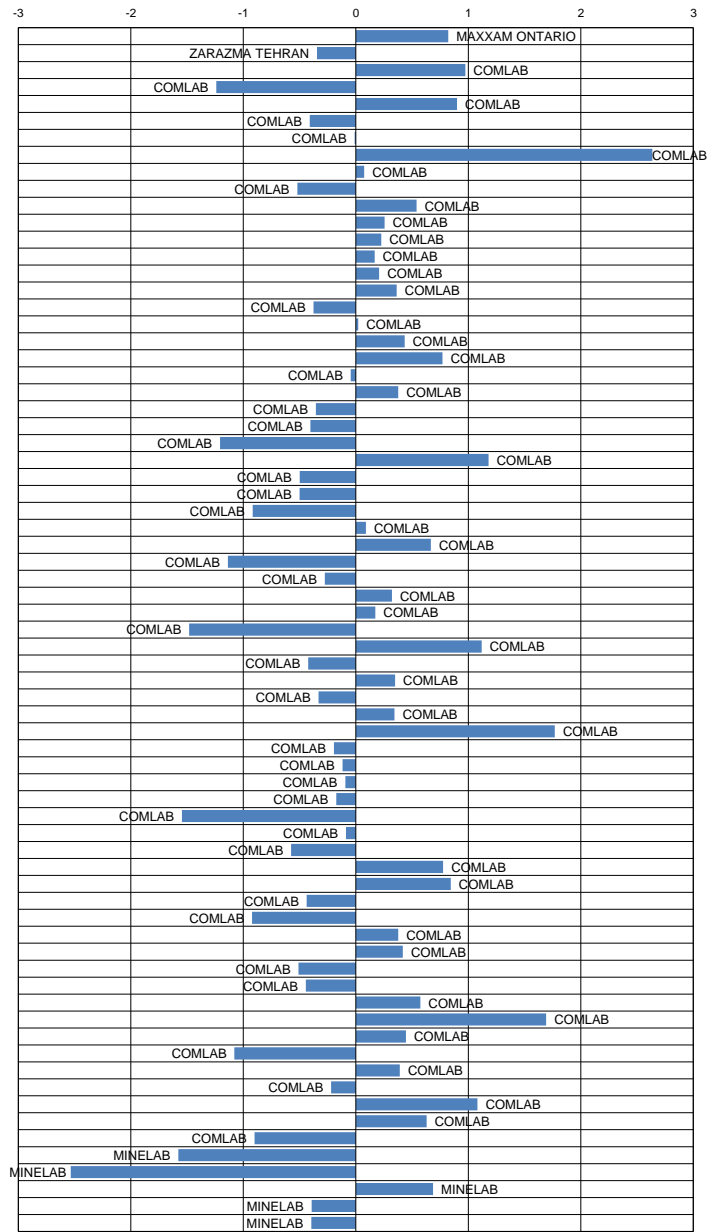
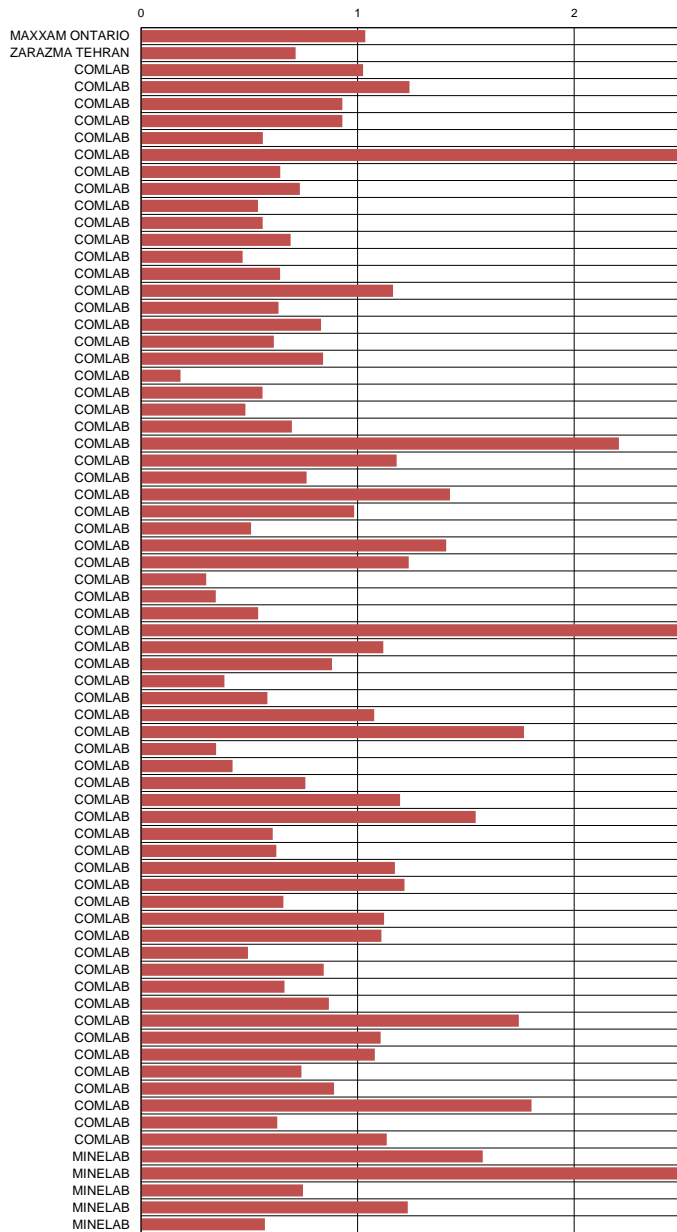
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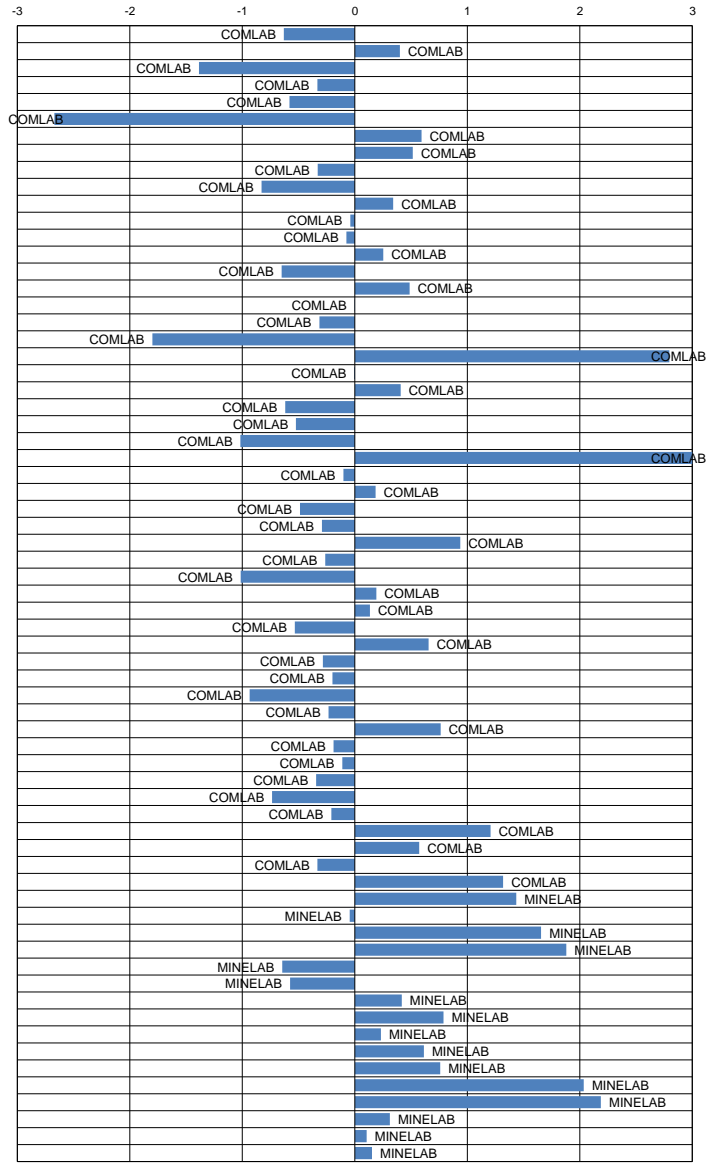
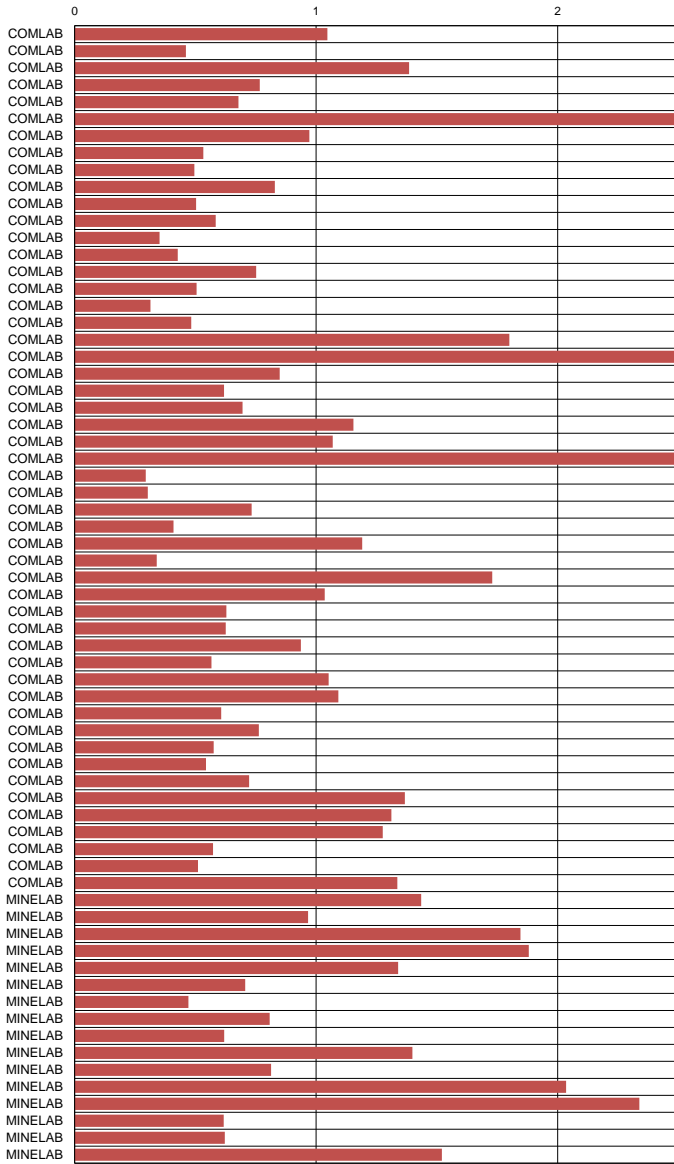
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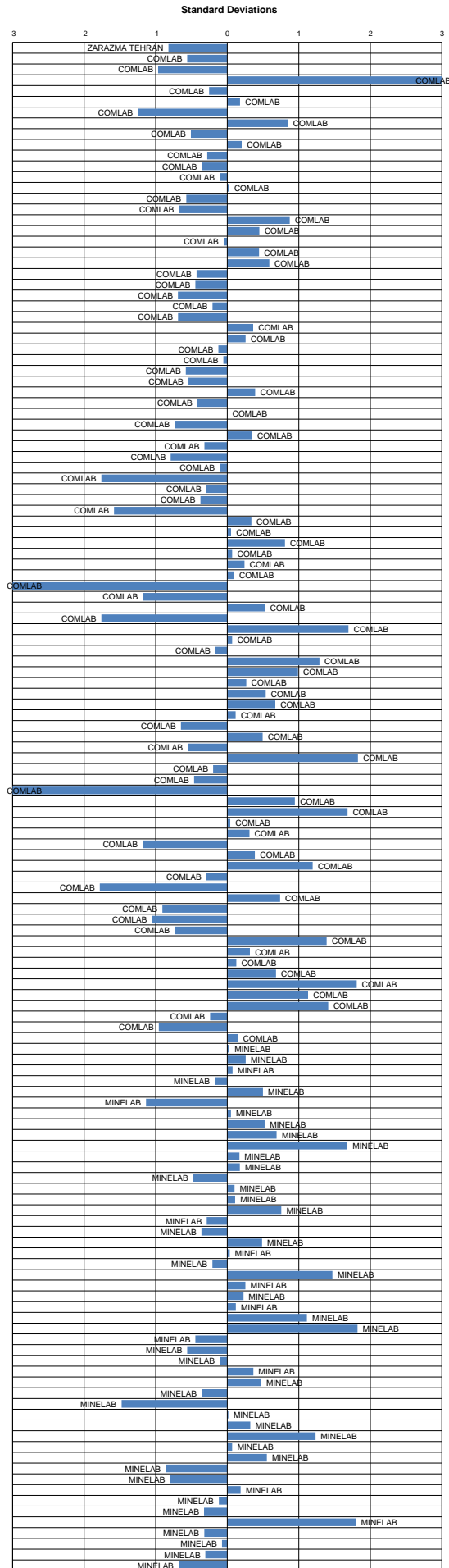
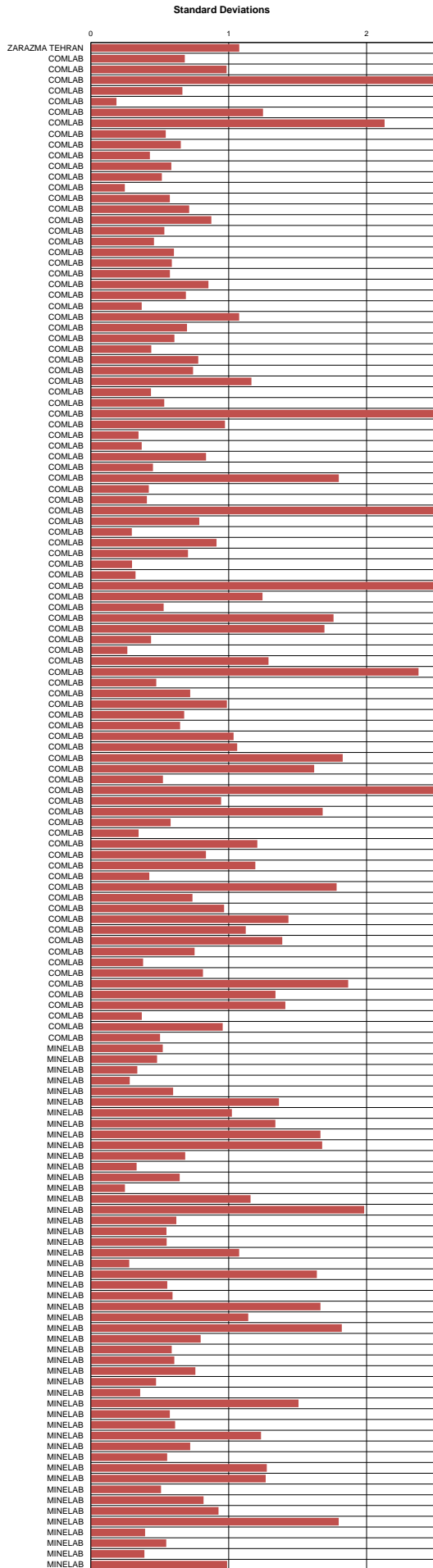
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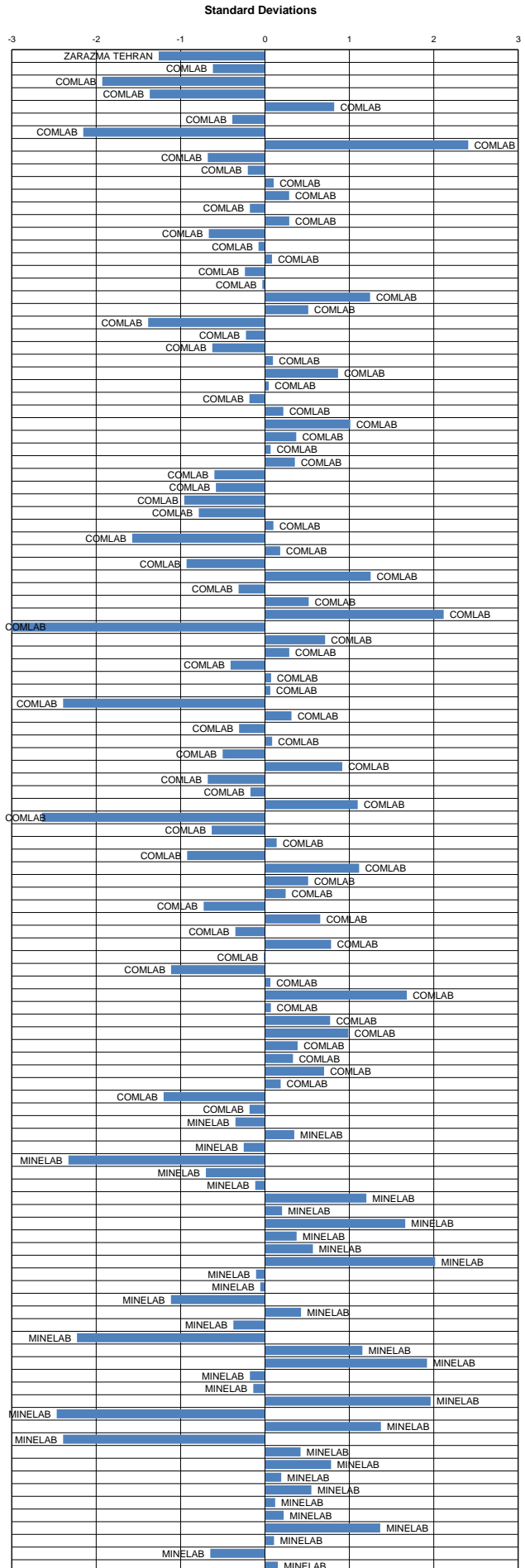
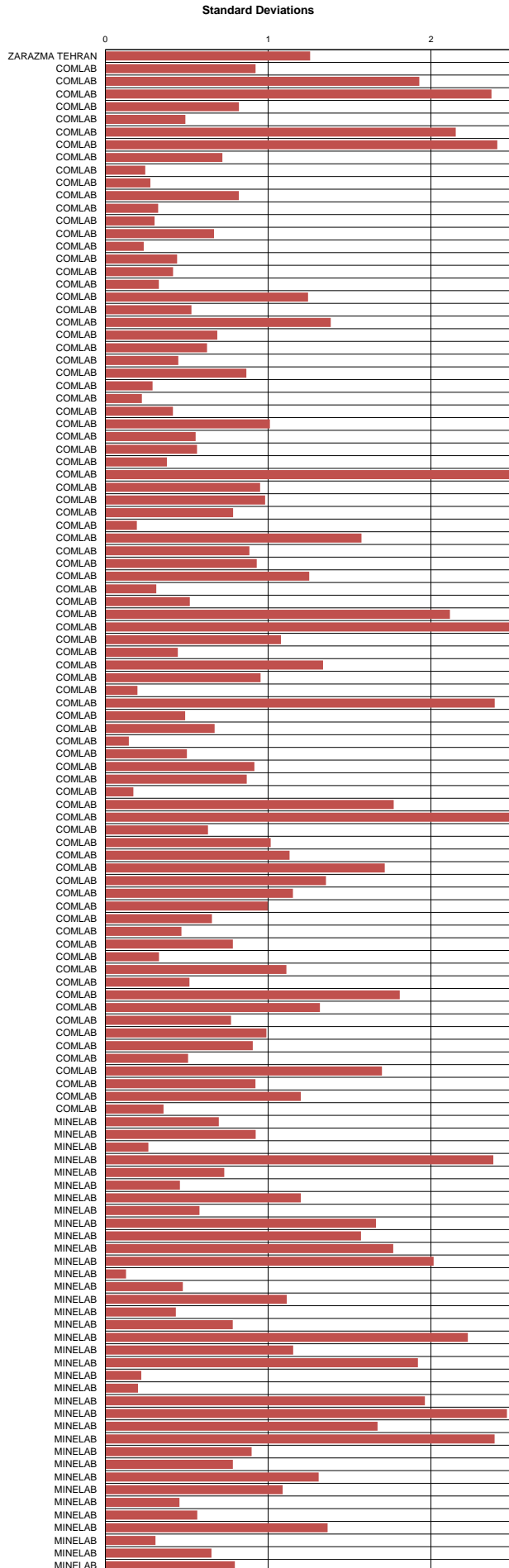


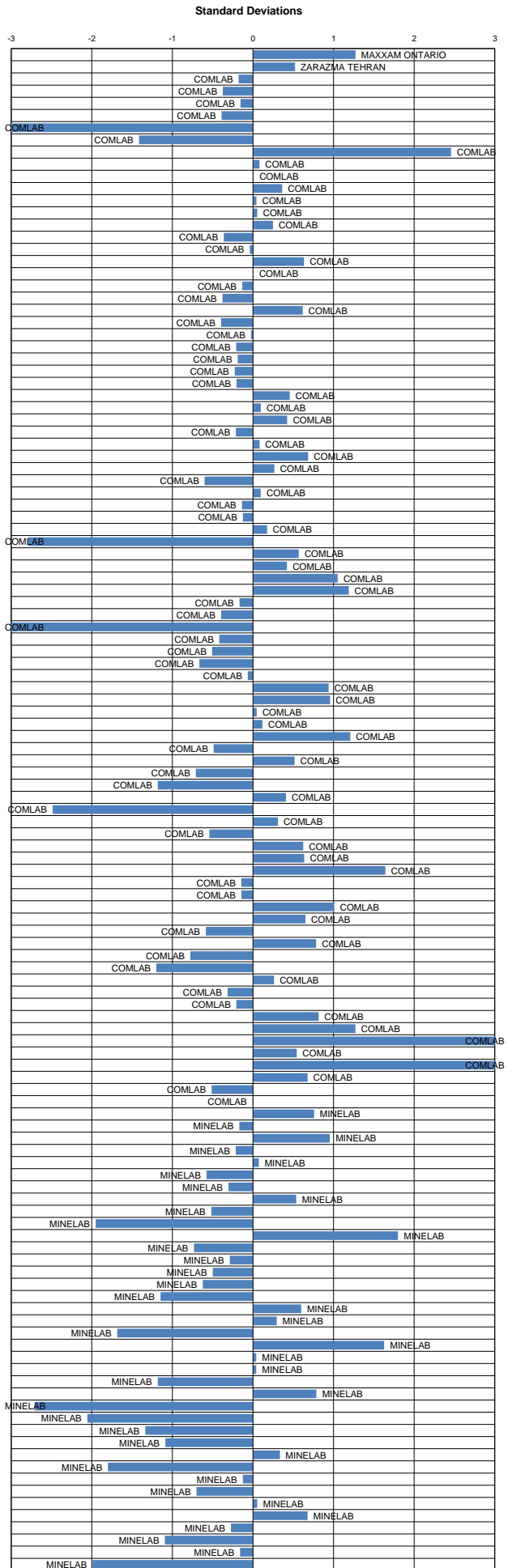
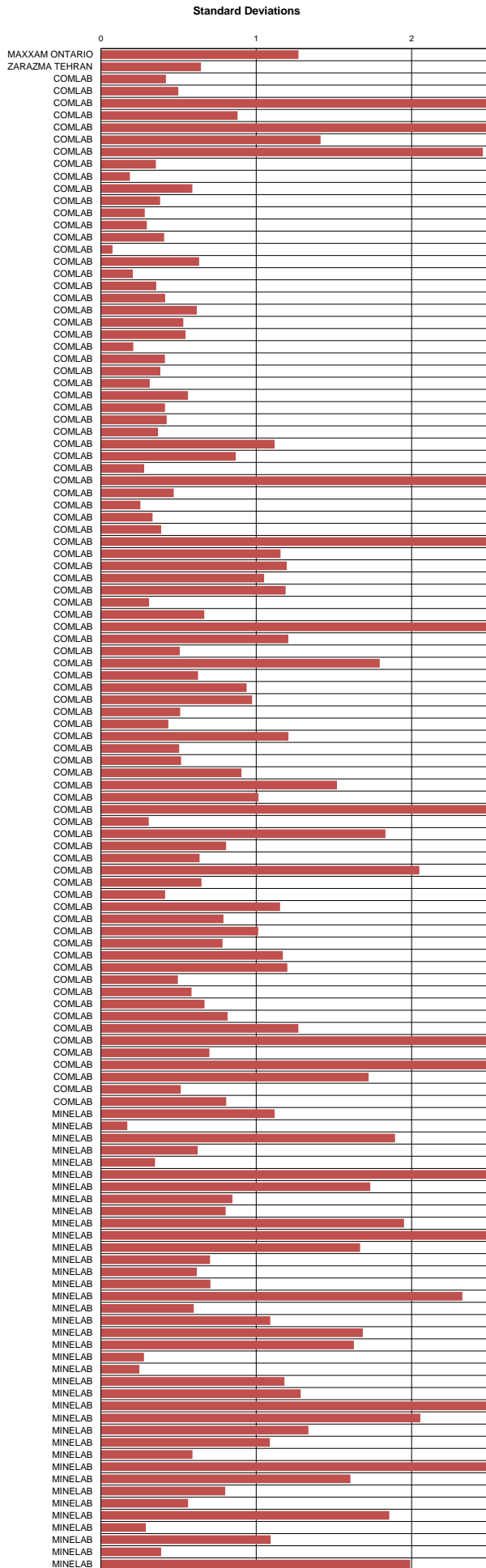
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Standard Deviations



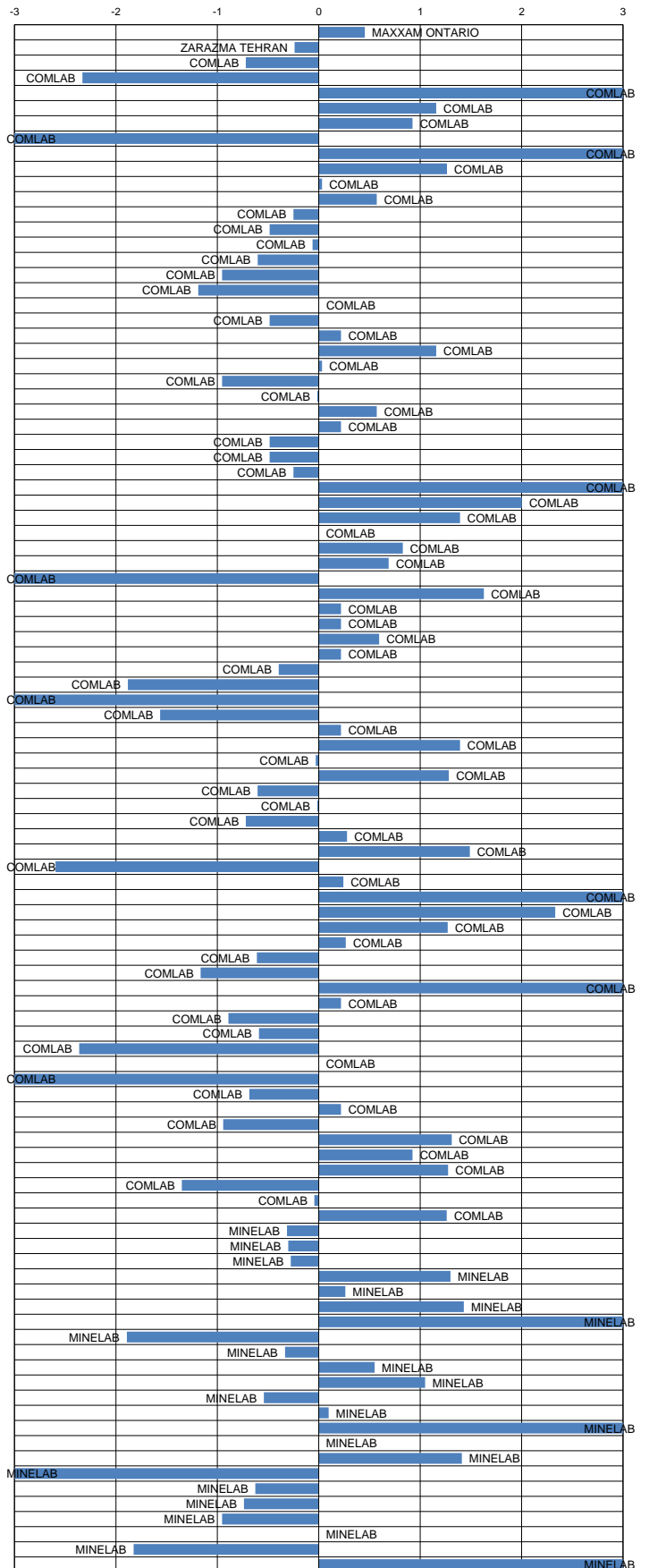


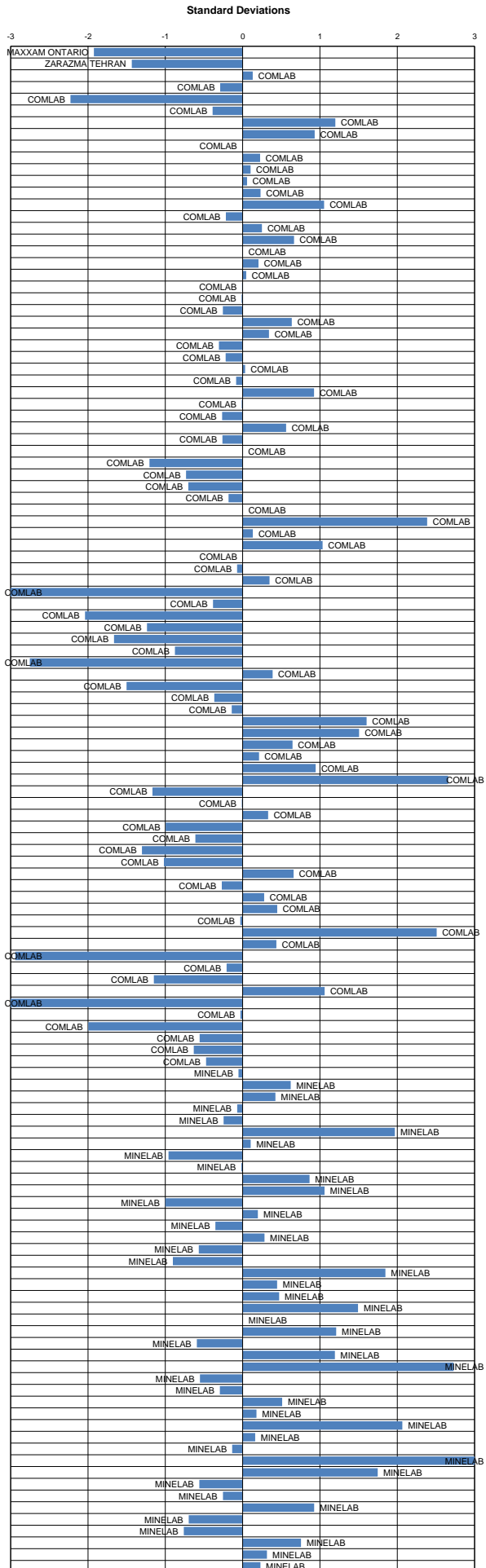
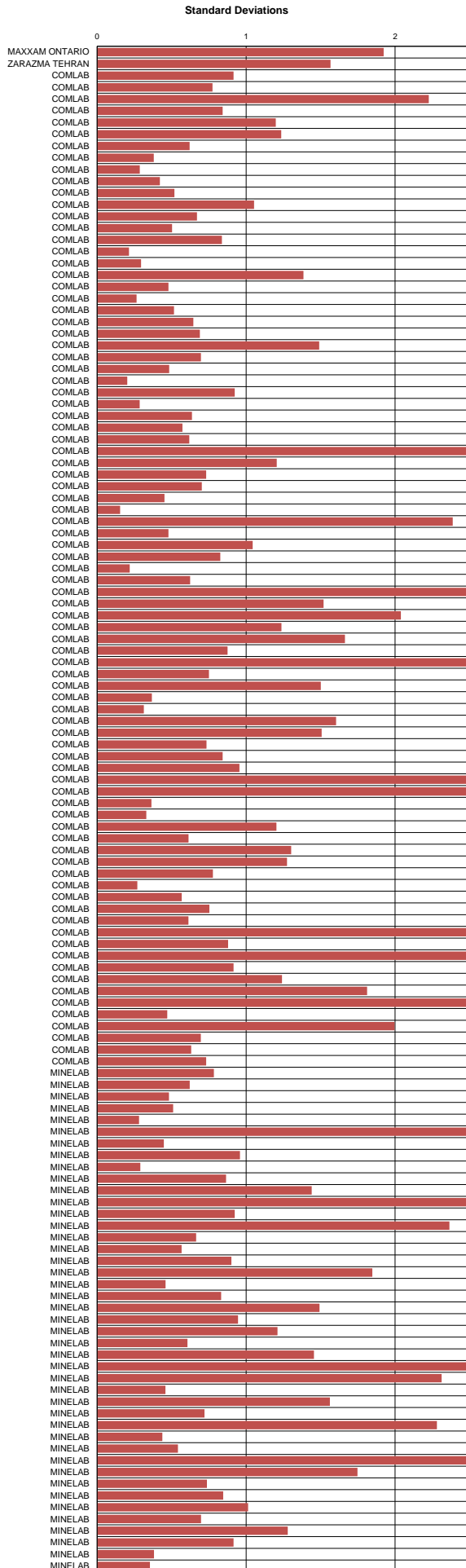




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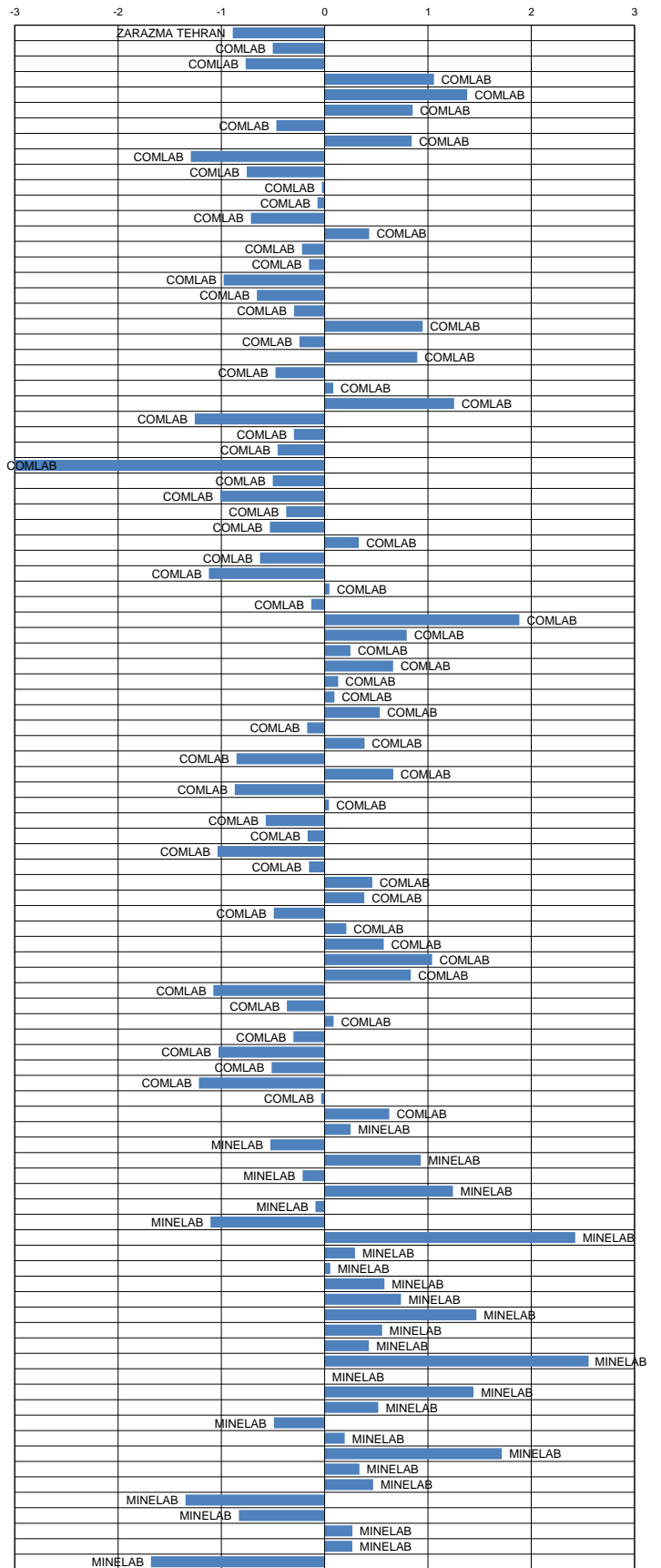
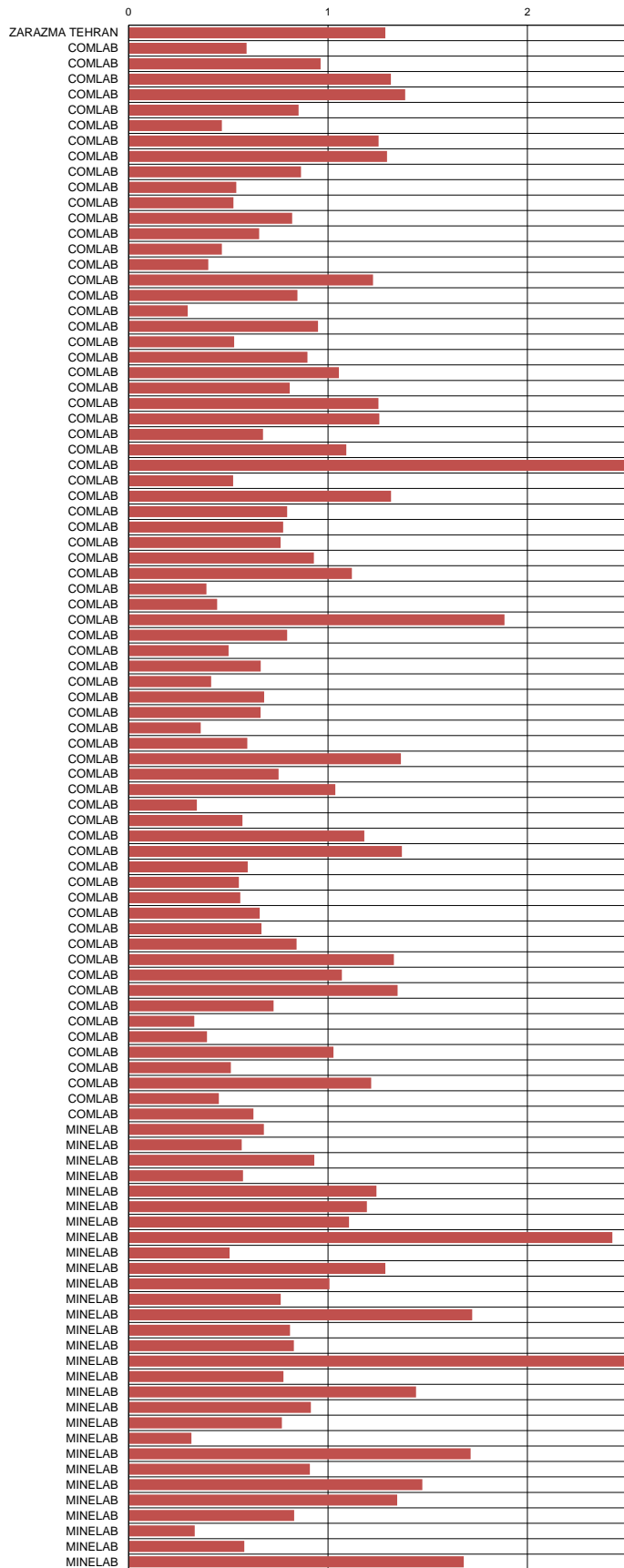
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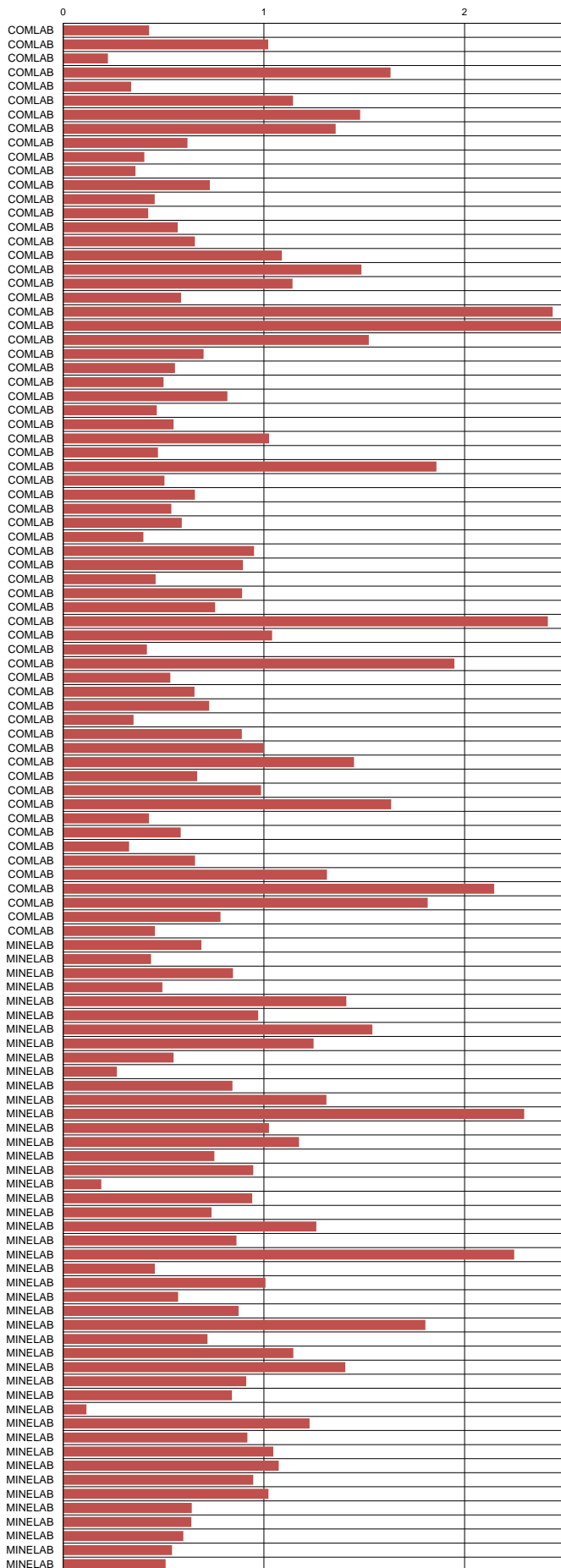


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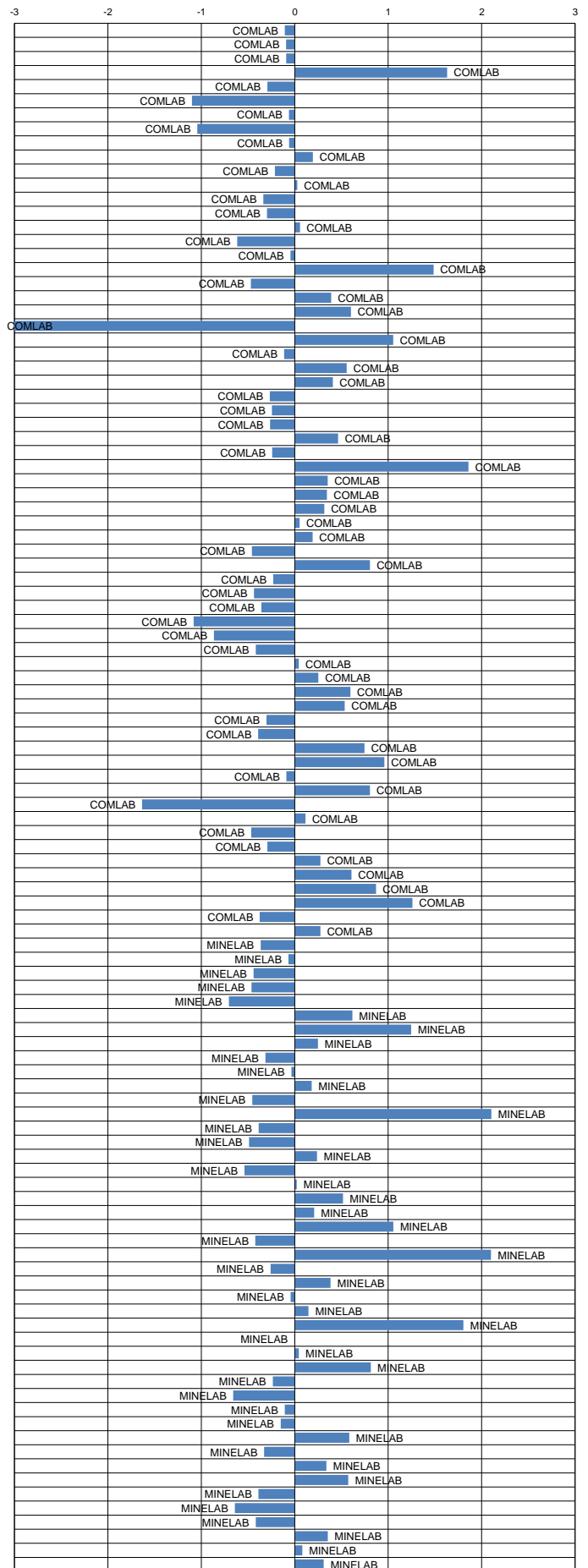
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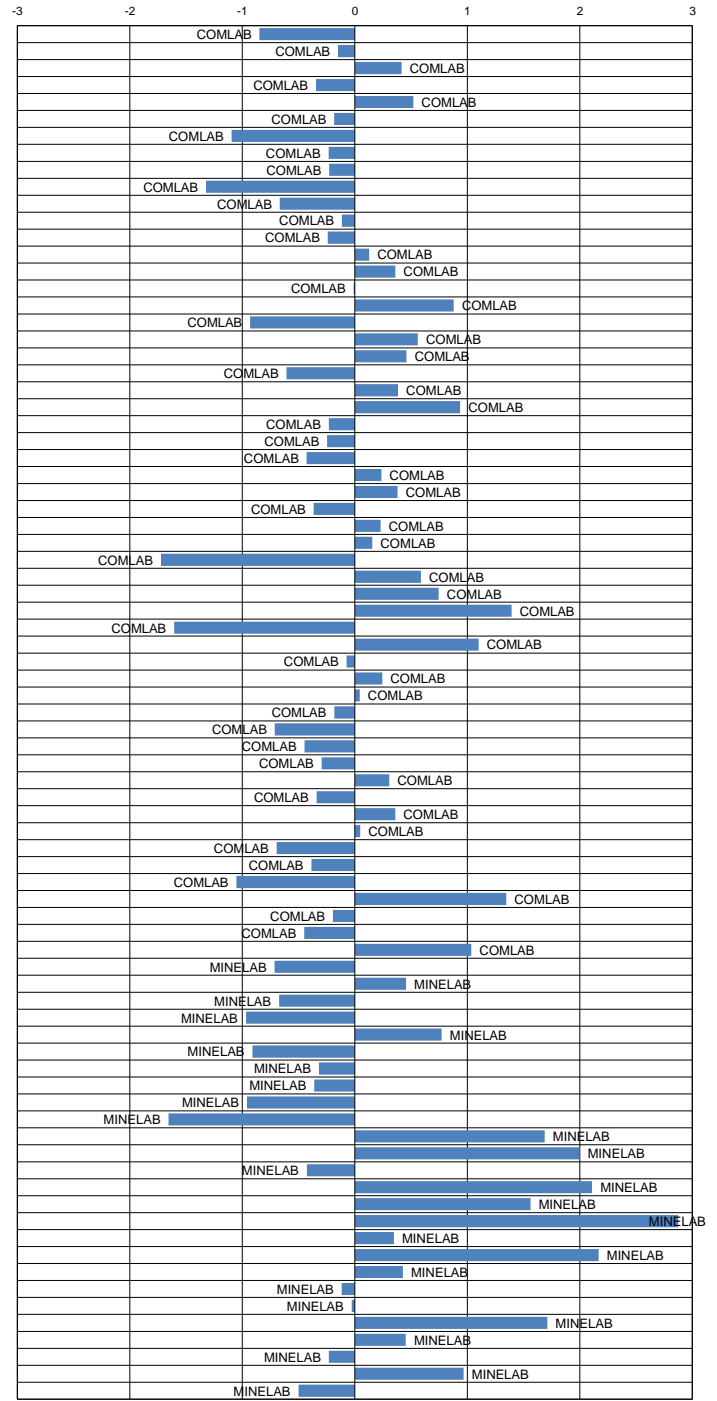
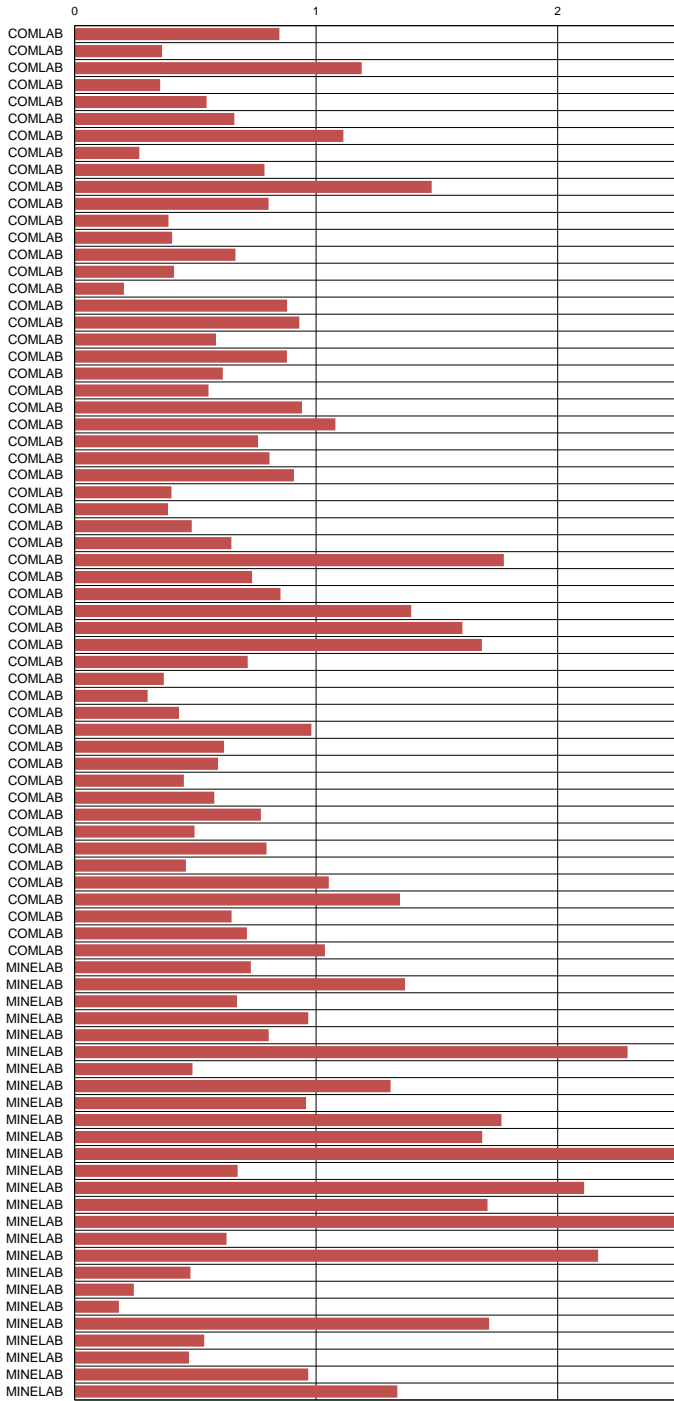


Standard Deviations



Standard Deviations

Standard Deviations



SUMMARY REPORT OF INDIVIDUAL LABORATORY PERFORMANCE
Zarazma Minerals Studies Company

GOLD SAMPLES

Analysis	Samples Sent	Reported	Number of Outliers
Fire Assay	Yes (10)	Yes	2
Aqua Regia	Yes (10)	No	-
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	No	-	Yes	0
Cobalt	Yes	0	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	0
Sulphur	Yes	1

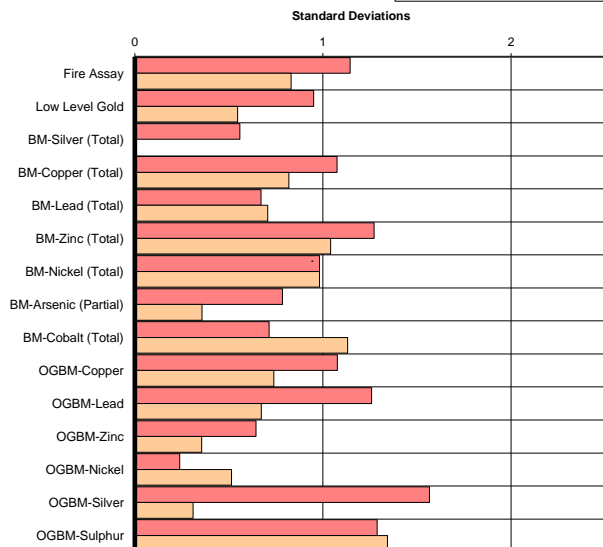
SULPHUR SAMPLES

The laboratory were not sent any Sulphur samples for analysis.

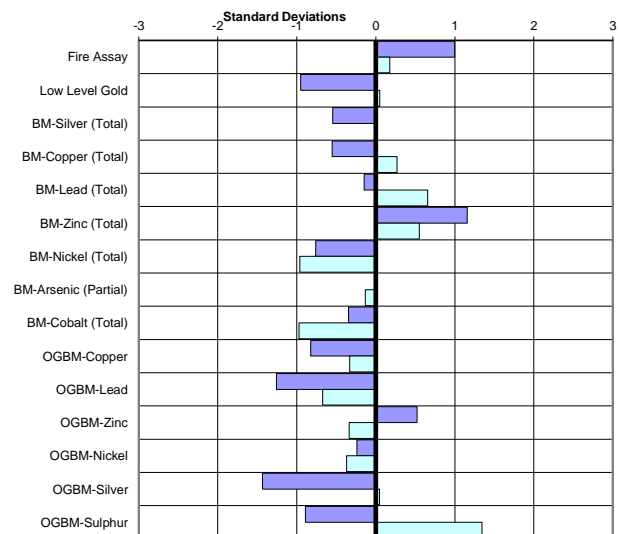
Analysis	Reported	Number of Outliers
Sulphur	-	-
Carbon	-	-

ERROR GRAPHS

Mean of Absolute Standardized Values ■ April 2018 ■ October 2017



Mean of Standardized Values ■ April 2018 ■ October 2017



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 srr@geostats.com.au