

Standard Participant Report Interpretation



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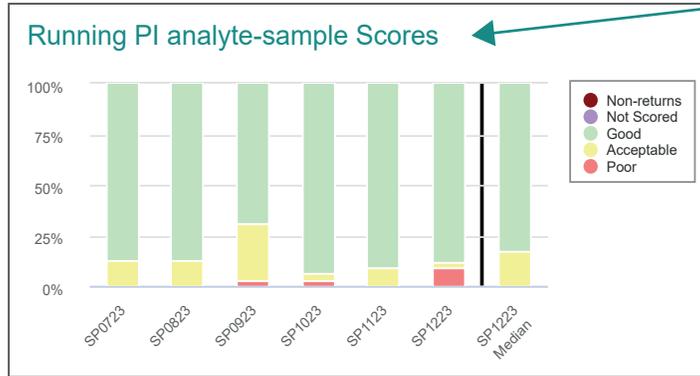
Participant Code: WQ00000

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Distribution details and report status.

Programme: **ED Toxicology** • Distribution Code: **SP1223**
Distribution Start: 04-Dec-2023 • Distribution End: 18-Dec-2023 • Report Issued: 27-Dec-2023 • Report Status: Final
Requested By: #####

This Distribution	
Your % Poor PI	9%
Median All Participant % Poor PI	0%
97.5 th Centile % Poor PI	40%



PI Ranges	
<1	Good
1-2	Acceptable
>2	Poor

PI Scores			
Location	Hospital 1		Hospital 2
Instrument Name	#####	#####	#####
Instrument Serial #	SN1	SN2	SN3
Salicylate	Good	Warning	Poor
Paracetamol	Good	Good	Warning
Ethanol	Good	N/A	Good
Overall % poor PI	0%	13%	17%
Overall % Non-return	0%	0%	0%

PI Code	Meaning
N/A	Not enrolled for this analyte
NRR	Analyte enrolled but no results returned
N/S	This quantitative analyte not scored for this distribution

****** Please note ******
The NQAAP expects 100% compliance on EQA returns. If you are enrolled for an analyte and have not returned a result (denoted by NRR in your PI table), this will be treated as a poor performance score. Please let us know as soon as possible if you are no longer providing this analyte as part of your diagnostic service.

Distribution Specific Comment
There is no specific comment for this distribution.

No participant comments have been submitted for any instruments for this distribution.

Participant Code replaces Lab Code.

Your % Poor PI (Performance Index) across all samples for all instruments, the Median All Participants % Poor PI and the 97.5th Centile % Poor PI.

The PI Scores table shows performance for all analytes and all instruments.

Overall % Poor PI across all analytes for each instrument, and Overall % non return for each instrument.

Key for PI Codes.

The running table shows the current distribution PI scores, and ultimately the previous 5 distribution PI scores for all analytes, for your Participant Code, plus all-Participant Median performance.

PI scores are converted into performance categories and colour coded.

Distribution Specific Comments from Weqas or participant.

Programme: ED Toxicology • **Distribution Code:** SP1223
 Distribution Start: 04-Dec-2023 • Distribution End: 18-Dec-2023 • Report Issued: 27-Dec-2023 • Report Status: Final

Participant Code: WQ00000 • **Location:** Hospital 1 • **Analysed Name:** ##### • **Serial #:** SN1
 Date Samples received: 05-Dec-2023 • Date of Analysis: 06-Dec-2023 • Operator Details: n/a • Storage Conditions: 2 - 8 °C

Analyte: Salicylate • **Method:** Roche Enzymatic • **Kit:** SALI

		Salicylate mg/L			
		Method:	Instrument Model:		
		Roche Enzymatic	cobas c 501	Overall	
Sample 1	160	Mean	160.1	161.1	159.9
		SD	4.5	4.0	6.1
		Uncertainty	0.93	1.67	1.03
		n	37	9	54
Sample 2	250	Mean	252.5	253.3	252.9
		SD	6.2	4.0	7.3
		Uncertainty	1.28	1.66	1.24
		n	37	9	54
Sample 3	705	Mean	704.6	703.9	713.8
		SD	23.1	18.9	32.1
		Uncertainty	5.18	8.33	5.78
		n	31	8	48
Sample 4	531	Mean	537.1	534.6	536.4
		SD	12.8	13.4	18.4
		Uncertainty	2.63	5.58	3.12
		n	37	9	54

'Your reported result' will be shown in the units entered, in the Weqas standard units if units entered are different from the Weqas standard units, and method corrected (if appropriate for the analyte).

Target Value: This will show whether you have been scored against Reference Value, Method Mean or Overall Mean.

Weqas TAE: This is the Total Allowable Error (2 x Weqas SD).

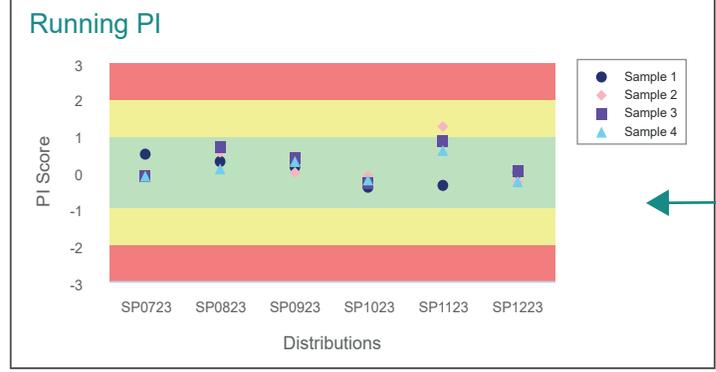
PI (Performance Index) score is shown for each sample.

$$PI = \frac{\text{Reported Result} - \text{Target Value}}{(\text{Weqas TAE} / 2)}$$

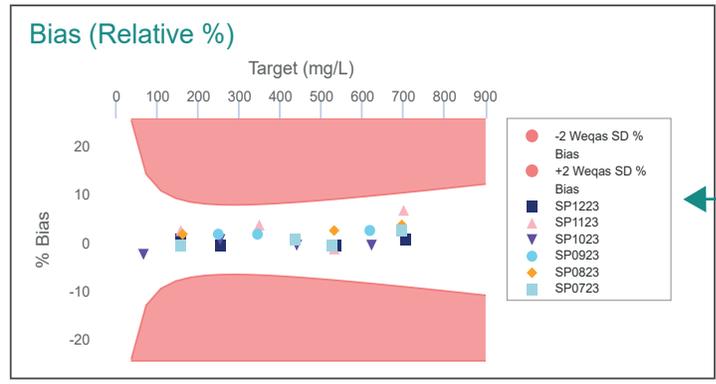
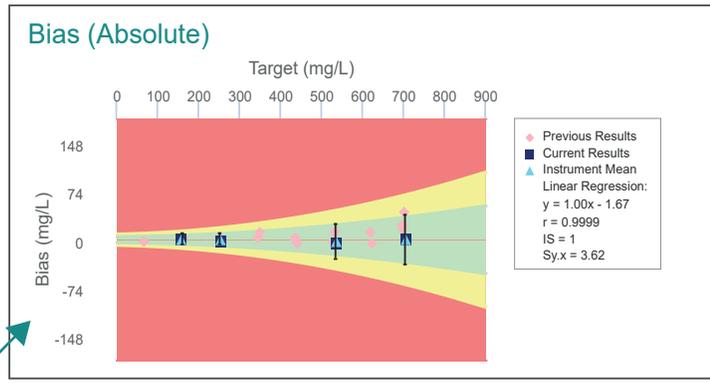
Overall performance category is assigned using an algorithm based on the individual sample PIs.

The Bias (Absolute) Plot shows absolute bias in Weqas standard units for each sample for the current distribution. The x-axis is the target value; if the target value is a Reference Value or the Overall Mean, your Method Means will be plotted.

Sample	1	2	3	4	Overall Performance
Target: (Method Mean)	160.1	252.5	704.6	537.1	
Weqas TAE	13	18.2	68.6	45.1	
PI	-0.02	-0.28	0.01	-0.27	Good



Running PI chart shows the PI score for each sample for the current distribution and the last 5 distributions, with colour coding for each performance category.



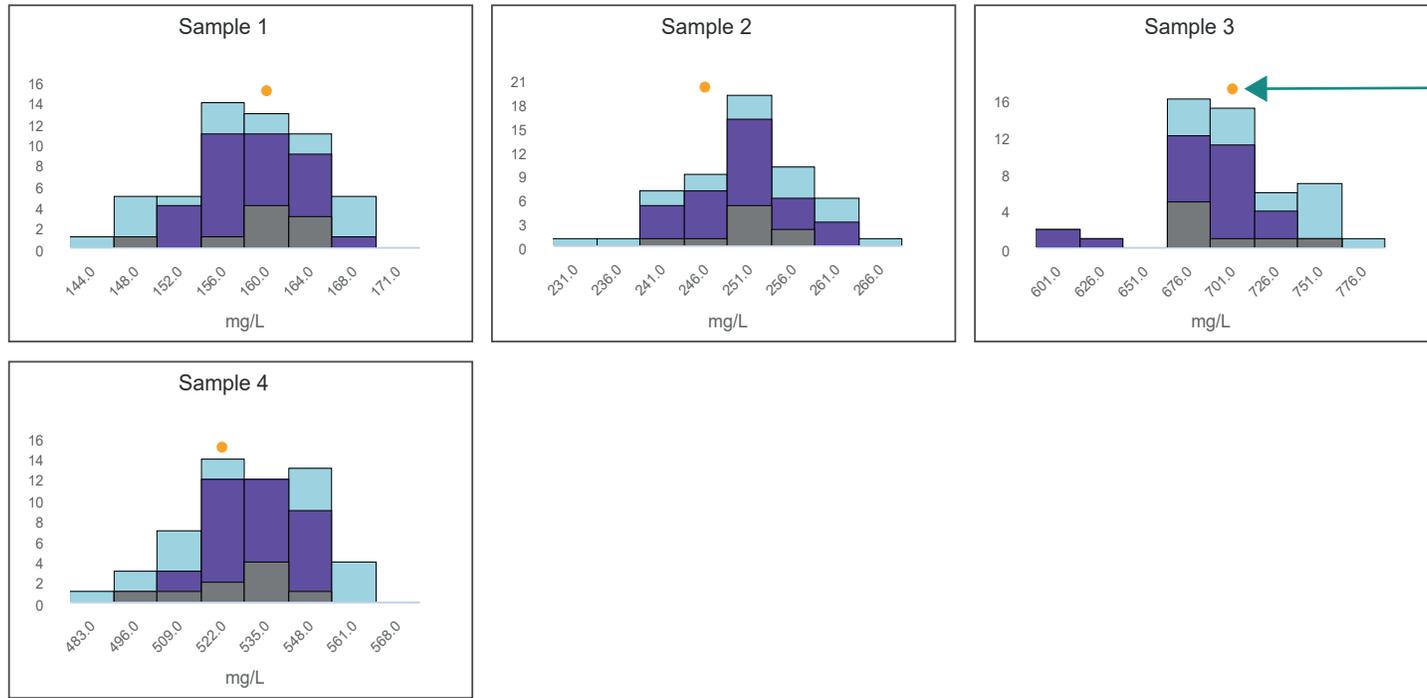
The Bias (Relative) Plot shows the relative (%) bias to the target for the current results, and for the previous 5 distributions.

	SP0723	SP0823	SP0923	SP1023	SP1123	This distribution: SP1223
Sy,x	8.28	6.26	2.05	1.72	22.32	3.62
IS	4	2	0	0	27	1

Sy,x is the average deviation from the best fit line and is an index of scatter.

IS Score	Interpretation
0 to 10	Good
11 to 150	Acceptable to Warning level
> 150	Unacceptable (incl. Curvilinear Data)

The histogram shows breakdown of results for each sample, showing the spread of results for All Results, 'My Method' and 'My Instrument'.



The orange dot shows where your result lies.

The Method Summary shows Mean and CV for each Method for each sample.

■ All Results
 ■ My Method
 ■ My Instrument
 ● My Result

SP1223		Sample 1		Sample 2		Sample 3		Sample 4	
Method Name	Mean	CV%	Mean	CV%	Mean	CV%	Mean	CV%	
Abbott Enzymatic (n=2)	159.8	1.4	258.0	0.7	760.7	1.0	557.4	1.2	
CLS Enzymatic (n=1)	162.6	0.0	262.6	0.0	747.3	0.0	549.7	0.0	
Emit tox Salicylic Acid (n=9)	162.8	6.0	256.3	4.3	744.2	5.1	539.4	6.0	
Roche Enzymatic (n=37)	160.1	2.8	252.5	2.5	704.6	3.3	537.1	2.4	
Siemens Enzymatic (n=5)	150.6	4.3	244.3	4.1	699.7	1.6	513.1	1.9	

There are no Weqas or Participant supplied comments for Salicylate for this distribution.

Any analyte specific comments from Weqas or the participant are shown here.