

Birmingham Quality

UK NEQAS for Thyroid Hormones

Laboratory :

Distribution : 395

Date : DD-MMM-YYYY

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Feedback

Quality Manager
Pathology Laboratory
Biochemistry Department
Town
County
Postcode

This Scheme is essentially web-based. We can alert you to information regarding the Scheme via email. The e-mail address (or addresses) we are currently using to contact your laboratory is shown below in red. If no e-mail address is displayed or the information shown is incorrect, please email us with an appropriate contact e-mail address as soon as possible, using the word 'feedback' in the title line.

Based on the date information you have provided, the transit time from specimen dispatch [] to receipt [] was day(s), and the subsequent time to analysis [] in your laboratory was day(s). (Missing values indicate dates not provided. "0 days" represents same day).

Any comments you made to us are shown below and have been acted upon where necessary

Any specific comments applicable only to laboratory are shown below

Any general comments applicable to all laboratories are shown below

Online return of results is compulsory

You have until the close of Distribution 396 to submit/request changes to methods, or to submit/request late or amended result

Report authorised on Friday 5 June 2015 by:

Finlay MacKenzie

Director, UK NEQAS for Thyroid Hormones



7860

Birmingham Quality is a UKAS accredited proficiency testing provider No. 7860. Please see <http://www.ukas.com> for full details of the accreditation status of our services

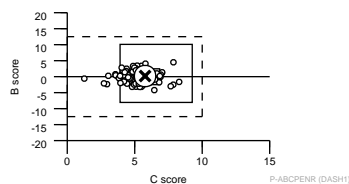
UK NEQAS
International Quality Expertise

Birmingham Quality is proud to offer EQA services that adhere to the Code of Practice and have the badge of quality of UK NEQAS

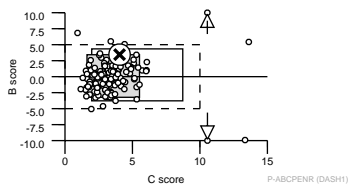


Performance Summary Icons (click graph for details)

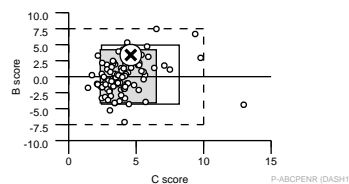
TSH



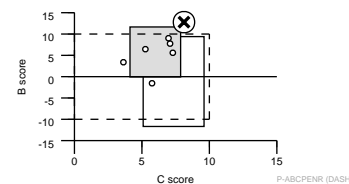
Free T4



Free T3



Total T4



Total T3

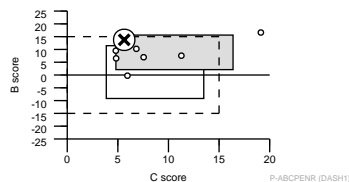
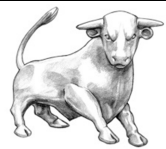


Table with 4 columns and 10 rows, mostly empty cells.



Birmingham Quality

Analytical Performance over the last 6 months (rolling time window of 6 distributions)

All our time periods are 'rolling' to give you current information.
 You may wish to keep you own log of Calendar Year or Financial Year time points if you require 'year-end' statements for your own internal use.
 Any analytes with out of consensus performance will be highlighted in red and can be clicked for further details.

You have out of consensus performance for:	Total T4		
You have in consensus performance for:	TSH	Free T3	
	Free T4	Total T3	
You have no performance data for:	<i>None</i>		

Participation and Return Rates

This scheme cycle is notionally every four weeks.
 Analytically, we assess you over a six month time window (6 Distributions).
 For return rates, late and amended results we assess you over a twelve month period (12 distributions).

	Distributions	Rating
Participation	12 distributions out of a possible 12	Satisfactory
Late Returns	0 distributions from the last 12	Satisfactory
Amendments	0 distributions accepted from the last 12	Satisfactory

Analytical Performance for specimens from distribution 395 only

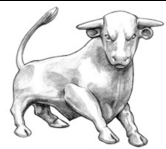
You can judge, in association with your IQC and other QA measures, if your current performance is a blip or part of a trend.

Out of consensus for at least one specimen for:	Total T4	Total T3	
In consensus for all specimens for:	TSH	Free T4	Free T3
You have no specimen data for:	<i>None</i>		
You are not registered for:	<i>None</i>		

The new Participation Summary page is an exciting new feature which we hope you will like. It is currently in prototype mode but will ultimately expand into having the Interpretative analytes as well as the existing 'numerical' analytes listed and will contain turnaround graphs etc., too.

For the moment it would be helpful if you could check the accuracy of the data presented, particularly the return-rate elements.

Many thanks, Finlay



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Laboratory :

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Date : DD-MMM-YYYY

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Distribution Summary

If your laboratory is outside of the acceptable limits of performance for any its rolling time-window scores (A, B or C scores), this will be indicated by a red traffic light symbol. It is the responsibility of the laboratory to undertake an internal investigation to establish the underlying cause and put in place corrective and preventive action. Please do not wait to receive a formal notification of performance from the Scheme Organiser or the National Quality Assurance Advisory Panel (NQAAP) before logging the non-conformity and, where necessary, acting upon the data contained in your report. A green traffic light merely reflects that your laboratory is performing as well as the state-of-the-art allows; it does not necessarily mean that your assay / laboratory performance is good enough clinically.

	Specimen	Pool	Result	Target	Specimen %bias	A score	B score	C score	A	B	C
TSH (mU/L)	395A	925	1.79	1.72	+4.4 ◆	53	+0.2	5.8	● ↔	● ↔	● ↔
	395B	926	6.10	6.02	+1.4 ◆						
	395C	927	7.94	8.24	-3.6 ◆						
	395D	928	10.26	10.41	-1.4 ◆						
	395E	929	11.80	12.39	-4.7 ◆						
Free T4 (pmol/L)	395A	925	15.43	15.12	+2.0 ◆	63	+3.4	4.0	● ↔	● ↔	● ↔
	395B	926	37.86	37.19	+1.8 ◆						
	395C	927	32.10	31.85	+0.8 ◆						
	395D	928	27.45	27.43	+0.1 ◆						
	395E	929	15.24	15.16	+0.5 ◆						
Free T3 (pmol/L)	395A	925	4.73	4.73	-0.0 ◆	69	+3.4	4.6	● ↔	● ↔	● ↔
	395B	926	14.65	14.87	-1.5 ◆						
	395C	927	9.76	9.78	-0.2 ◆						
	395D	928	9.02	9.32	-3.2 ◆						
	395E	929	11.11	11.32	-1.8 ◆						
Total T4 (nmol/L)	395A	925	91.70	85.2	+7.6 ▲	169	+12.8	8.1	● ↗	● ↗	● ↔
	395B	926	188.4	171.9	+9.6 ▲						
	395C	927	166.3	154.6	+7.5 ▲						
	395D	928	152.5	138.1	+10.4 ▲						
	395E	929	90.51	84.1	+7.6 ▲						
Total T3 (nmol/L)	395A	925	1.82	1.57	+15.7 ▲	119	+13.7	5.6	● ↔	● ↔	● ↗
	395B	926	4.22	3.89	+8.6 ◆						
	395C	927	3.15	2.78	+13.3 ▲						
	395D	928	3.11	2.70	+15.1 ▲						
	395E	929	3.79	3.60	+5.4 ◆						

This Distribution contained five new pools.

Specimens for Distribution 396 will be dispatched on Tuesday 16th June 2015, results are due back in Birmingham by, notionally, 23:59 on Tuesday 30th July 2015.

If we have entered your results as "OMIT" , it is because the numerical value we obtained from you was implausible for that analyte.

If we have entered your result as "XPL" , it is because you did not report a numerical value for that analyte, but you did provide an explanation as to why a result was not reported.



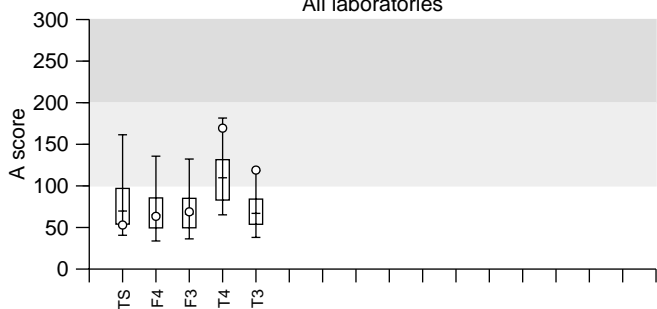
Method Summary

To correctly assign you to a method we require the following pieces of information for each analyte that you measure:

- [1] The Manufacturer and model number of the Analyser
- [2] The Manufacturer and kit product/catalogue number of the reagent used specifying 'method principle', if we breakdown data by method principle
- [3] The Manufacturer and kit product/catalogue number of the calibrator used
- [4] A confirmation that you are using the 'kit' according to the manufacturer's instructions including using their calibrator values with their calibrator (*if you are not using the system according to the manufacturer's instructions you will be classed as an in-house user within that method principle*)

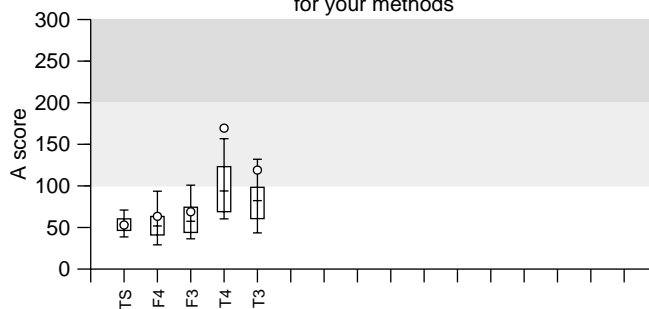
Your Method	Your Submethod	Units	A score with trend arrow	Method median A score	All lab median A score
TSH	Roche Cobas/Modular	mU/L	53 ● ↔	54	70
Free T4	Roche Cobas/Modular	pmol/L	63 ● ↔	52	65
Free T3	Roche Cobas/Modular	pmol/L	69 ● ↔	57	66
Total T4	Roche Cobas/Modular	nmol/L	169 ● ↗	94	110
Total T3	Roche Cobas/Modular	nmol/L	119 ● ↔	82	67

Graphic Equalizer Plot of A scores
All laboratories

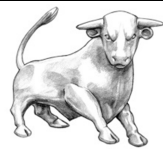


P:BWATSCRG

Method Graphic Equalizer Plot of A scores
for your methods



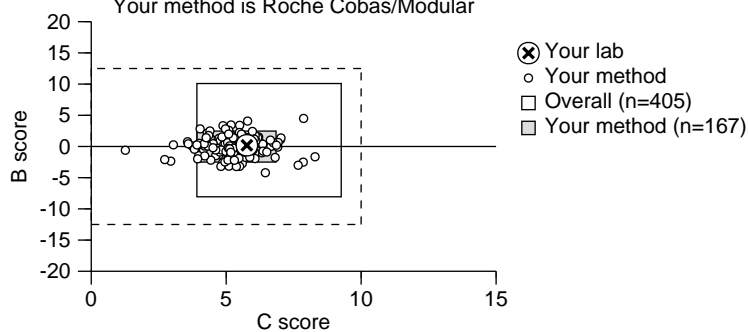
P:BWATSCM2



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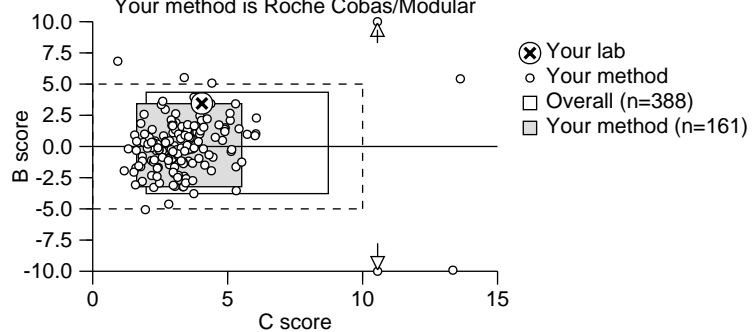
Cumulative Summary

TSH B score is +0.2 and C score is 5.8
Your method is Roche Cobas/Modular



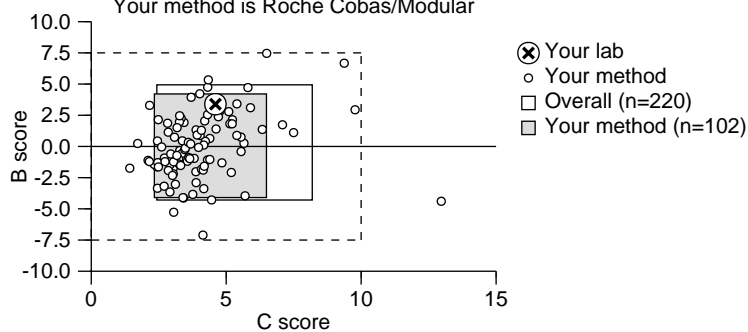
P-ABCPENR (ABCPENR)

Free T4 B score is +3.4 and C score is 4.0
Your method is Roche Cobas/Modular



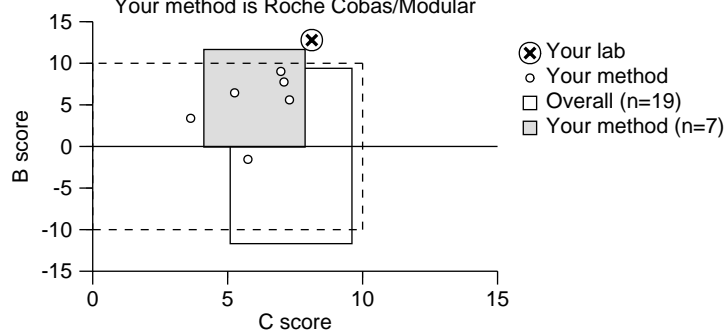
P-ABCPENR (ABCPENR)

Free T3 B score is +3.4 and C score is 4.6
Your method is Roche Cobas/Modular



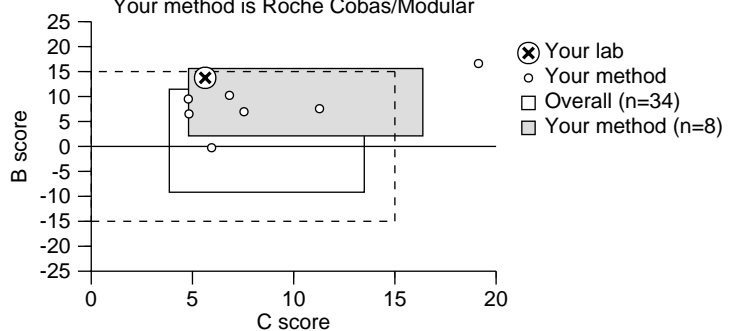
P-ABCPENR (ABCPENR)

Total T4 B score is +12.8 and C score is 8.1
Your method is Roche Cobas/Modular

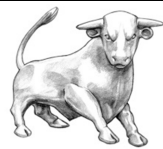


P-ABCPENR (ABCPENR)

Total T3 B score is +13.7 and C score is 5.6
Your method is Roche Cobas/Modular



P-ABCPENR (ABCPENR)



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UK NEQAS for Thyroid Hormones

Laboratory :

Distribution : **395**

Date : DD-MMM-YYYY

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Analyte : TSH (mU/L)

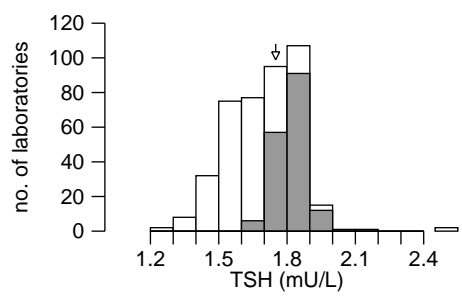
Spec.	Pool	Pool description / Treatments / Additions
395A	925	Euthyroid pool
395B	926	Euthyroid Pool 925 + 4 TSH, 100 T4 and 2.0 T3
395C	927	Euthyroid Pool 925 + 6 TSH, 80 T4 and 1.0 T3
395D	928	Euthyroid Pool 925 + 8 TSH, 60 T4 and 1.0 T3
395E	929	Euthyroid Pool 925 + 10.0 TSH and 2.0 T3

All methods
 Roche Cobas/Modular

Your A score is	53	↔
Your B score is	+0.2	↔
Your C score is	5.8	↔
The A limit is	200	
The B limit is +/-	12.5	
The C limit is	10.0	

Specimen : 395A

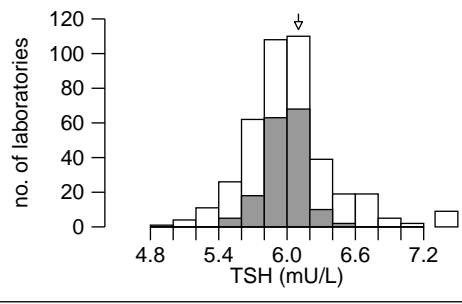
	n	Mean	SD	CV(%)
All methods [ALTM]	415	1.72	0.16	9.1
Abbott Architect	119	1.54	0.08	4.9
Beckman Access/Dxi	36	1.68	0.11	6.3
OCD (J&J) VITROS	9	1.67	0.05	2.9
Roche Cobas/Modular	166	1.83	0.06	3.0
Siemens ADVIA Centaur 2Gen	15	1.76	0.12	7.1
Siemens ADVIA Centaur 3Gen	51	1.69	0.07	4.3
Siemens Immulite 2000/2500	13	1.83	0.05	2.6



Your result	1.79
Target (ALTM)	1.72
Standard Uncertainty	0.010
Your specimen: %bias	+4.4
Accuracy Index	62
Your method mean Roche Cobas/Modular	1.83

Specimen : 395B

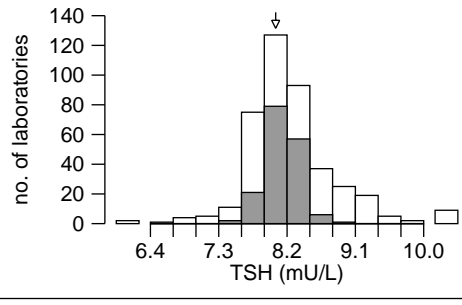
	n	Mean	SD	CV(%)
All methods [ALTM]	415	6.02	0.33	5.5
Abbott Architect	119	5.82	0.26	4.5
Beckman Access/Dxi	36	5.87	0.43	7.3
OCD (J&J) VITROS	9	7.93	0.30	3.8
Roche Cobas/Modular	166	5.99	0.16	2.6
Siemens ADVIA Centaur 2Gen	15	6.13	0.38	6.2
Siemens ADVIA Centaur 3Gen	51	6.42	0.29	4.5
Siemens Immulite 2000/2500	13	6.60	0.40	6.0



Your result	6.10
Target (ALTM)	6.02
Standard Uncertainty	0.021
Your specimen: %bias	+1.4
Accuracy Index	20
Your method mean Roche Cobas/Modular	5.99

Specimen : 395C

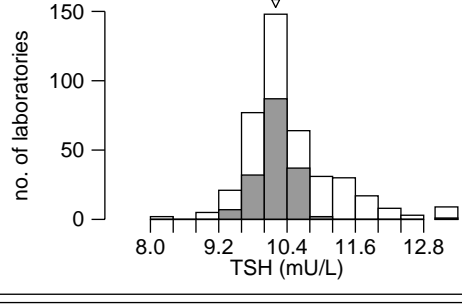
	n	Mean	SD	CV(%)
All methods [ALTM]	415	8.24	0.46	5.6
Abbott Architect	119	7.99	0.34	4.3
Beckman Access/Dxi	36	8.14	0.55	6.8
OCD (J&J) VITROS	9	11.33	0.36	3.2
Roche Cobas/Modular	166	8.15	0.22	2.6
Siemens ADVIA Centaur 2Gen	15	8.33	0.63	7.6
Siemens ADVIA Centaur 3Gen	51	8.91	0.42	4.7
Siemens Immulite 2000/2500	13	8.97	0.56	6.3



Your result	7.94
Target (ALTM)	8.24
Standard Uncertainty	0.030
Your specimen: %bias	-3.6
Accuracy Index	52
Your method mean Roche Cobas/Modular	8.15

Specimen : 395D

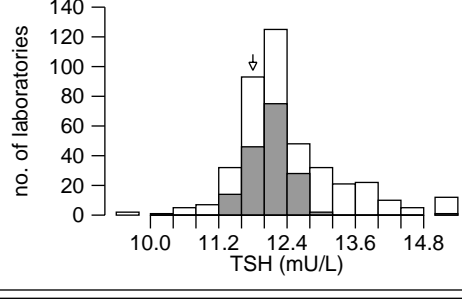
	n	Mean	SD	CV(%)
All methods [ALTM]	415	10.41	0.64	6.2
Abbott Architect	119	10.08	0.43	4.3
Beckman Access/Dxi	36	10.56	0.79	7.5
OCD (J&J) VITROS	9	14.64	0.50	3.4
Roche Cobas/Modular	166	10.22	0.28	2.8
Siemens ADVIA Centaur 2Gen	15	10.67	0.95	8.9
Siemens ADVIA Centaur 3Gen	51	11.29	0.54	4.8
Siemens Immulite 2000/2500	13	11.55	0.55	4.8



Your result	10.26
Target (ALTM)	10.41
Standard Uncertainty	0.042
Your specimen: %bias	-1.4
Accuracy Index	20
Your method mean Roche Cobas/Modular	10.22

Specimen : 395E

	n	Mean	SD	CV(%)
All methods [ALTM]	415	12.39	0.77	6.2
Abbott Architect	119	12.01	0.52	4.3
Beckman Access/Dxi	36	12.40	0.82	6.6
OCD (J&J) VITROS	9	17.64	0.74	4.2
Roche Cobas/Modular	166	12.15	0.33	2.7
Siemens ADVIA Centaur 2Gen	15	12.69	0.92	7.2
Siemens ADVIA Centaur 3Gen	51	13.61	0.58	4.3
Siemens Immulite 2000/2500	13	13.56	0.85	6.3

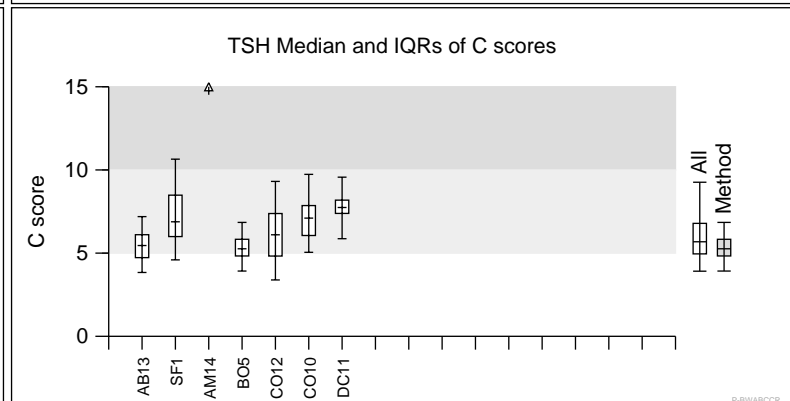
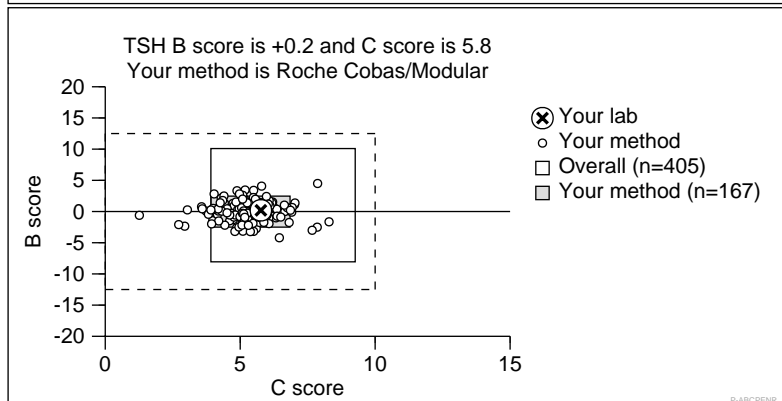
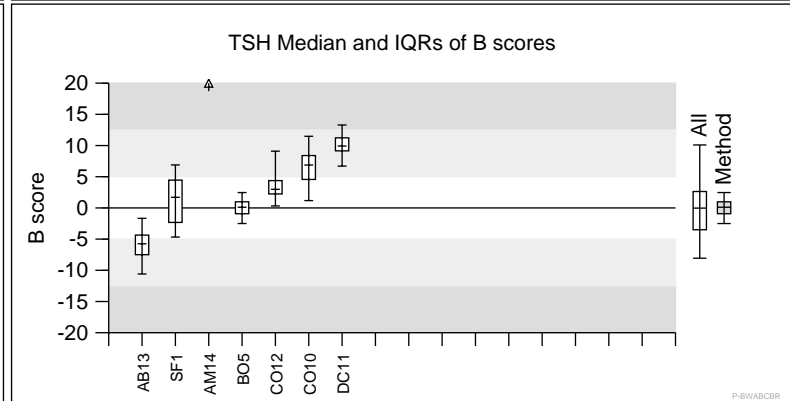
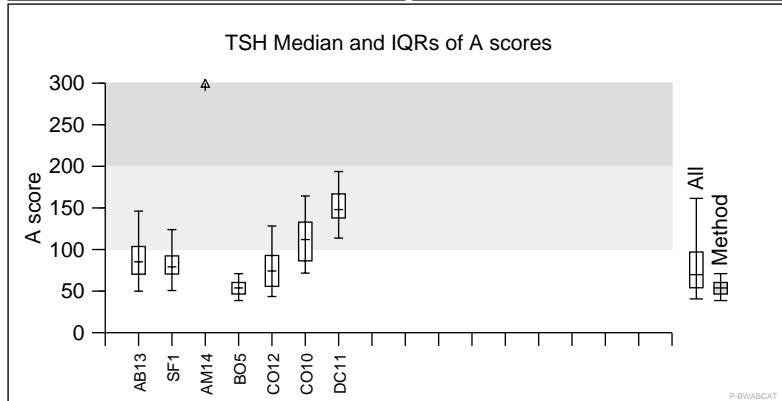


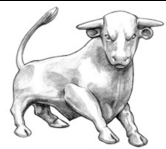
Your result	11.80
Target (ALTM)	12.39
Standard Uncertainty	0.050
Your specimen: %bias	-4.7
Accuracy Index	68
Your method mean Roche Cobas/Modular	12.15



Pool (exclusion) [Type]	Distribution 390 09-Dec-2014			Distribution 391 27-Jan-2015			Distribution 392 24-Feb-2015			Distribution 393 24-Mar-2015			Distribution 394 28-Apr-2015			Distribution 395 02-Jun-2015		
	result	target	%bias	result	target	%bias	result	target	%bias	result	target	%bias	result	target	%bias	result	target	%bias
(826) [S]				0.007	0.013	(-44.6)												
909				0.599	0.49	+21.2												
908				0.960	0.79	+20.8												
903 [X,V]	1.24	1.16	+6.6															
907				1.6	1.45	+10.3												
879 [G]				1.63	1.49	+9.6												
913 [V]							1.83	1.71	+7.3									
925 [V]																1.79	1.72	+4.4
919 [V]																		
906 [X,V]	3.38	3.40	-0.6							1.84	1.75	+5.1						
868 [S,V]													5.40	5.24	+3.2			
905 [X,V]	5.46	5.56	-1.8															
926 [V]																6.10	6.02	+1.4
892 [S,V]													6.55	6.55	-0.0			
904 [X,V]	7.49	7.78	-3.7										7.33	7.82	-6.3			
893 [S,V]													9.87	9.93	-0.7			
927 [V]																7.94	8.24	-3.6
894 [S,V]																		
902 [X,V]	9.67	9.94	-2.7										10.16	10.13	+0.3			
916 [V]							9.99	10.11	-1.2									
922 [V]										9.72	10.13	-4.1						
867 [S,V]																		
928 [V]																10.26	10.41	-1.4
929 [V]																11.80	12.39	-4.7
915 [V]							17.78	18.27	-2.7									
921 [V]										17.60	18.30	-3.8						
914 [V]							26.45	26.5	-0.0									
920 [V]										25.58	26.7	-4.2						
912 [V]							33.30	34.7	-3.9									
918 [V]										33.87	35.0	-3.2						
Method mean	BO5		-0.4	BO5		+15.5	BO5		-0.1	BO5		-2.0	BO5		-0.7	BO5		-0.8
A score	54			52			51			55			53			53		
B score	+2.6			+2.2			+1.5			+1.1			+0.5			+0.2		
C score	6.7			6.2			6.1			6.4			5.9			5.8		

G Preg/Mix
S Stripped/stripped mixture
V no preservative
X exogenous





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Laboratory :

Distribution : **395**

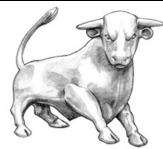
Date : DD-MMM-YYYY

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Analyte : TSH (mU/L)

		395A			395B			395C			395D			395E		
	n	Mean	SD	CV(%)	Mean	SD	CV(%)	Mean	SD	CV(%)	Mean	SD	CV(%)	Mean	SD	CV(%)
All methods [ALTM]	415	1.72	0.16	9.1	6.02	0.33	5.5	8.24	0.46	5.6	10.41	0.64	6.2	12.39	0.77	6.2
Abbott Architect	119	1.54	0.08	4.9	5.82	0.26	4.5	7.99	0.34	4.3	10.08	0.43	4.3	12.01	0.52	4.3
Beckman Access/Dxi	36	1.68	0.11	6.3	5.87	0.43	7.3	8.14	0.55	6.8	10.56	0.79	7.5	12.40	0.82	6.6
OCD (J&J) VITROS	9	1.67	0.05	2.9	7.93	0.30	3.8	11.33	0.36	3.2	14.64	0.50	3.4	17.64	0.74	4.2
Roche Cobas/Modular	166	1.83	0.06	3.0	5.99	0.16	2.6	8.15	0.22	2.6	10.22	0.28	2.8	12.15	0.33	2.7
Siemens ADVIA Centaur 2Gen 15	15	1.76	0.12	7.1	6.13	0.38	6.2	8.33	0.63	7.6	10.67	0.95	8.9	12.69	0.92	7.2
Siemens ADVIA Centaur 3Gen 51	51	1.69	0.07	4.3	6.42	0.29	4.5	8.91	0.42	4.7	11.29	0.54	4.8	13.61	0.58	4.3
Siemens Immulite 2000/2500 13	13	1.83	0.05	2.6	6.60	0.40	6.0	8.97	0.56	6.3	11.55	0.55	4.8	13.56	0.85	6.3

		A score			B score			C score			
	n	Median	Interquartile range		Median	Interquartile range		Median	Interquartile range		
All methods	405	70	54	97	-0.0	-3.5	+2.6	5.7	5.0	6.8	
Abbott Architect	AB13	111	85	70	104	-5.7	-7.5	-4.4	5.5	4.7	6.1
Beckman Access/Dxi	SF1	35	79	71	92	+1.7	-2.3	+4.5	6.9	6.0	8.5
OCD (J&J) VITROS	AM14	8	398	385	406	+31.2	+29.9	+32.0	23.3	22.9	23.6
Roche Cobas/Modular	BO5	167	54	46	60	+0.1	-0.9	+1.0	5.3	4.8	5.8
Siemens ADVIA Centaur 2Gen	CO12	15	74	56	93	+3.0	+2.2	+4.4	6.1	4.8	7.4
Siemens ADVIA Centaur 3Gen	CO10	51	112	86	133	+6.9	+4.6	+8.4	7.1	6.1	7.9
Siemens Immulite 2000/2500	DC11	12	148	138	167	+9.9	+9.1	+11.2	7.7	7.4	8.2



Birmingham Quality

UK NEQAS for Thyroid Hormones

Laboratory :

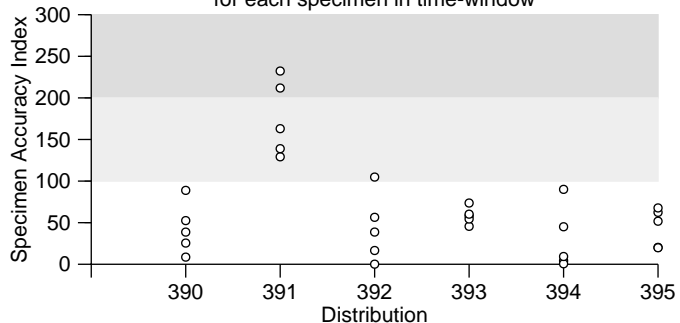
Distribution : **395**

Date : DD-MMM-YYYY

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TSH (mU/L)

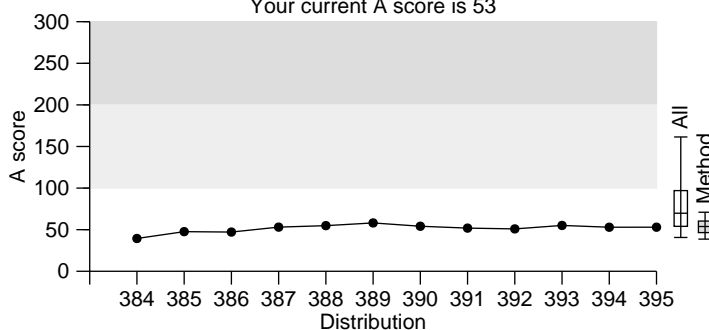
Specimen Accuracy Index for each specimen in time-window



P-ABCATS (ABC1)

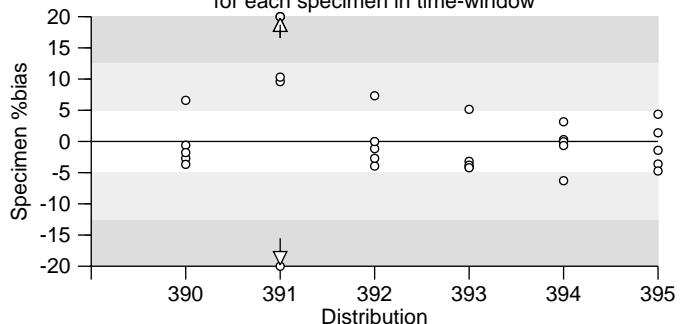
A score by distribution

Your current A score is 53



P-ABCAT (ABC1)

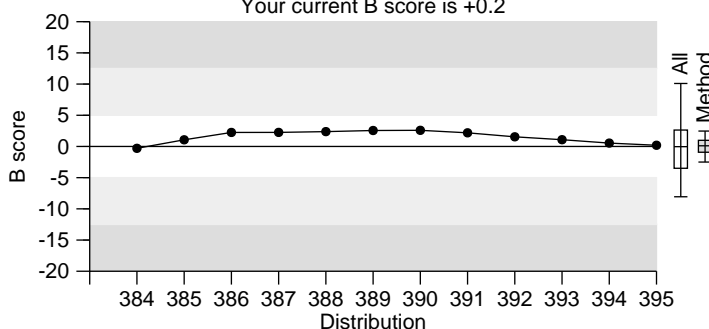
Specimen %bias for each specimen in time-window



P-ABCBS (ABC1)

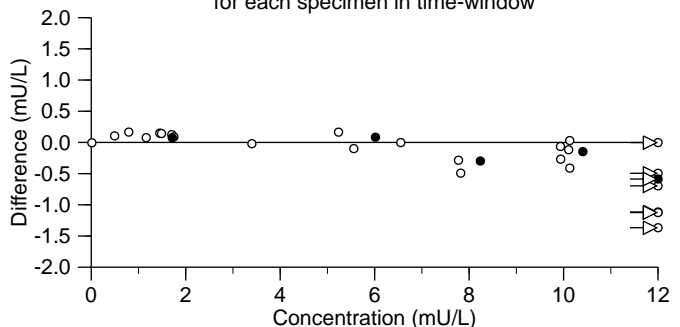
B score by distribution

Your current B score is +0.2



P-ABCBR (ABC1)

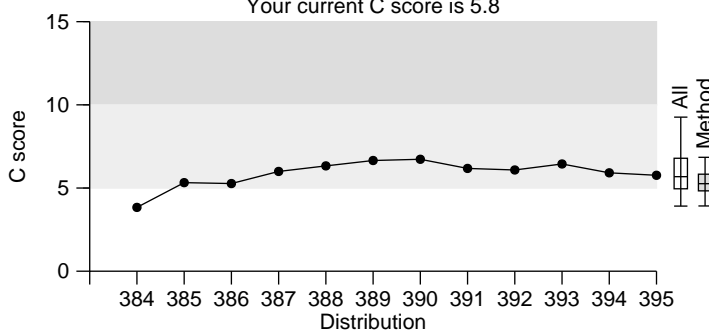
Difference (result-target) for each specimen in time-window



P-BA1FSA (ABC1)

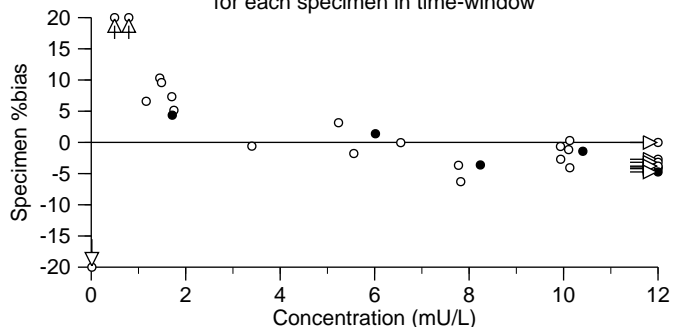
C score by distribution

Your current C score is 5.8



P-ABCCR (ABC1)

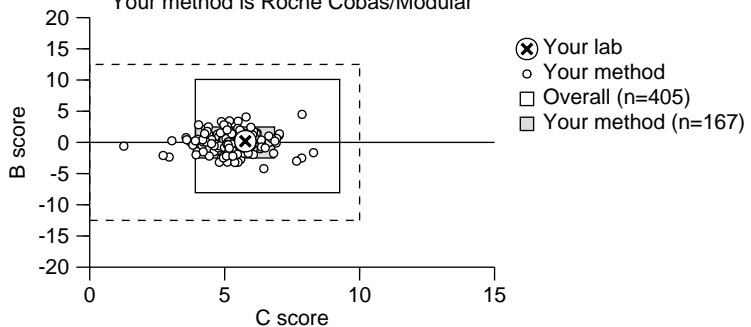
Specimen %bias for each specimen in time-window



P-BA1FS1P (ABC1)

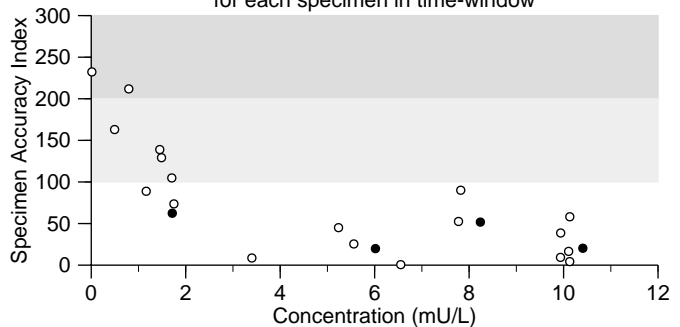
TSH B score is +0.2 and C score is 5.8

Your method is Roche Cobas/Modular



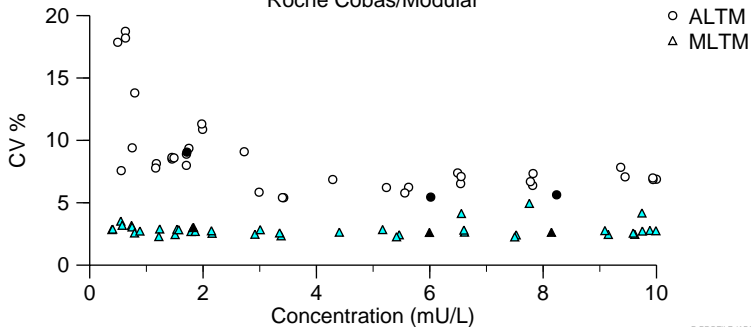
P-ABCPNR (ABC1)

Specimen Accuracy Index for each specimen in time-window



P-YSTMDD (ABC1)

TSH Between-laboratory agreement Roche Cobas/Modular



P-PROFILE (ABC1)