

Intended Result	Your Report	Your Score
Specimen 4230 Median concentration 3.84 log copies/mL	4.12 log copies/mL	
Specimen 4231 Median concentration 3.24 log copies/mL	3.66 log copies/mL	
Average of the median differences in conc. between specimens 4230 and 4231 is 0.60 log copies/mL	Difference in conc. is 0.46 log copies/mL	2

Cumulative score information

Total number of specimens sent to you for **UK NEQAS for HIV1 RNA quantification** over the last 3 distributions is 6
For these distributions specimen numbers 3833 4005 4230 have been analysed and scored.

Number of reports analysed 3
Number of specimens reported as not examined (not scored) 0
Number of specimens received too late for analysis (not scored) 0
Number of specimens for which no report was received (not scored) 0
Your cumulative score for these specimens was 6 out of a possible total of 6

The mean score calculated from the reports returned by **UK** laboratories was 5.84 (with a standard error of 1.18)

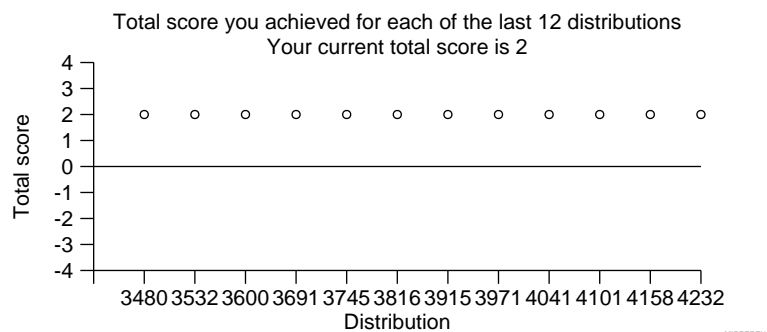
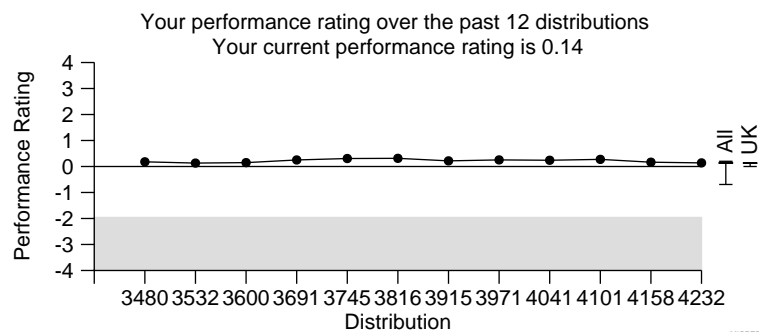
Performance rating

Your performance rating for **UK NEQAS for HIV1 RNA quantification** (i.e. the number of standard errors by which your cumulative score lies above or below the mean) for **UK** laboratories is 0.14.

A performance rating of more than 1.96 standard errors below the mean indicates possible poor performance.

Please note your performance rating may alter if other participants' results are amended.

No score penalty is incurred for non return of reports. However non return of results may be used as a measure of poor performance.



Comments:

A total of 183 sets of specimens were distributed for testing with 171 participants responding within the specified period. Of these, two participants did not examine the specimens. Valid quantitative results for the specimen pair were reported by 168 participants and one participant reported partial result. 98.2% (166/169) of reported results were within 0.30 log copies/mL of the average of the median difference in concentration from results obtained by participants.

Outlying results: two participants reported a result within 0.31 to 0.5 log copies/mL (Methods:Nuclisens Easy-Q v2 n=1, COBAS 6800/8800 n=1).

In the specimen results tables on page 2, a maximum of 12 kits results are displayed: these include the most commonly used methods and the method(s) used in your laboratory. The figures in the specimen results tables and those in the difference table may differ:

- (1) due to the exclusion of kits not providing valid quantitative results for both specimens resulting in a lower number of data sets or
- (2) due to participants using more than one kit or providing two sets of results resulting in higher numbers of data sets in the individual specimen results tables.

Turn around time: The time taken to report your results was 0-days. This information is provided for your own use and does not form part of your performance assessment.

Acknowledgements: We thank colleagues from St Thomas' Hospital, London, PHE-NIS-Public Health Laboratories Bristol and Cambridge for their kind assistance with pre-distribution tests.

Enquiries: Pre-distribution test results are available should you experience a technical failure and wish to discuss the results. Written enquiries about this distribution should be addressed to Dr Beatrix Kele at the email address below.

For repeat specimens to investigate EQA failure, please request using the web form or e-mail organiser@ukneqasmicro.org.uk stating your laboratory identification number, the distribution name, distribution number,specimen numbers and reason/s for request.

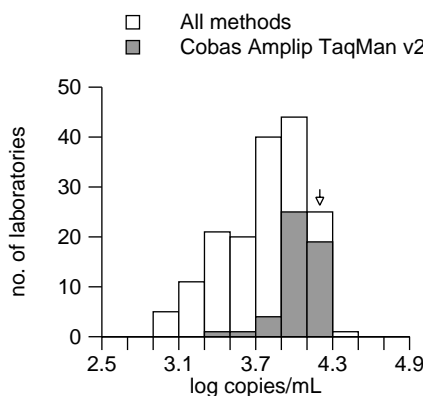
Report authorised by: Dr.Sanjiv Rughooputh, Director



Two specimens of freeze dried plasma were dispatched with a request for the quantification of HIV-1 RNA. The specimens consisted of a single HIV-1 (subtype B) RNA positive plasma, diluted 11.7 (specimen 4230) and 1:6.8 (specimen 4231) in negative human plasma and freeze-dried.

Specimen : 4230

	n (UK)	range	median	5%-95%
All methods	193 (60)	2.99-5.96	3.84	3.19-4.17
Abbott Real-Time	38 (17)	2.99-3.70	3.35	3.05-3.61
Cepheid: GeneXpert	12 (7)	3.73-3.98	3.87	3.76-3.95
Cobas 6800/8800	14 (3)	3.51-4.12	3.90	3.68-4.02
Cobas Amplip TaqMan v2	50 (10)	3.45-4.24	4.06	3.78-4.17
Cobas HP TaqMan v2	6	3.90-5.94	4.10	3.92-5.50
Hologic: Aptima	12 (9)	3.49-3.90	3.65	3.52-3.87
Nuclisens Easy-Q v2	3	3.70-4.18	4.04	3.73-4.17
Qiagen: Artus	6 (3)	3.71-3.99	3.78	3.71-3.95
Real-Time Single target	3	3.76-4.03	3.99	3.78-4.03
Roche: Cobas 4800	16 (5)	3.69-3.97	3.82	3.69-3.93
Siemens: kPCR	6	3.36-3.65	3.48	3.37-3.63
Unspecified	10 (2)	3.11-5.96	3.91	3.41-5.15



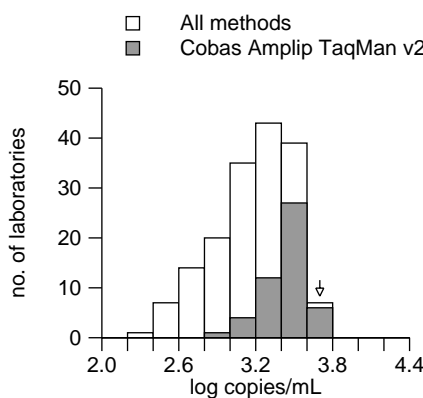
Your result :
4.12 log copies/mL

Method median concentration :
4.06 log copies/mL

Median concentration :
3.84 log copies/mL

Specimen : 4231

	n (UK)	range	median	5%-95%
All methods	192 (60)	2.23-5.50	3.24	2.63-3.60
Abbott Real-Time	37 (17)	2.23-3.11	2.79	2.44-3.10
Cepheid: GeneXpert	12 (7)	3.24-3.41	3.29	3.25-3.40
Cobas 6800/8800	14 (3)	2.97-3.43	3.30	3.04-3.43
Cobas Amplip TaqMan v2	50 (10)	2.90-3.73	3.45	3.09-3.64
Cobas HP TaqMan v2	6	3.24-5.50	3.46	3.25-5.01
Hologic: Aptima	12 (9)	2.92-3.43	3.04	2.95-3.33
Nuclisens Easy-Q v2	3	3.15-3.64	3.26	3.16-3.61
Qiagen: Artus	6 (3)	3.07-3.36	3.15	3.08-3.31
Real-Time Single target	3	3.00-3.72	3.29	3.03-3.68
Roche: Cobas 4800	16 (5)	2.82-3.32	3.21	3.06-3.32
Siemens: kPCR	6	2.75-3.06	2.95	2.77-3.06
Unspecified	10 (2)	2.70-5.34	3.31	2.91-4.49



Your result :
3.66 log copies/mL

Method median concentration :
3.45 log copies/mL

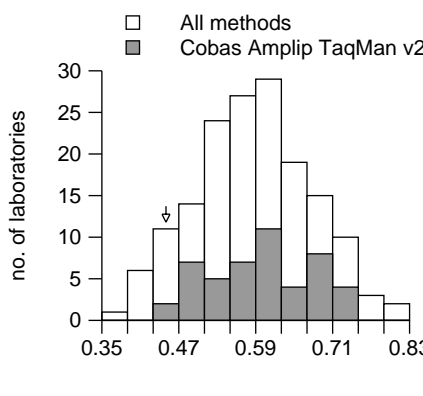
Median concentration :
3.24 log copies/mL

Intended result : 0.30 to 0.90 log copies/mL

(average median of the reported differences in concentration between specimen 4230 and 4231 +/- 0.3 log copies/mL, with an uncertainty of 0.010)

Difference in concentration between specimen 4230 and 4231 expressed in log copies/mL :

	n (UK)	range	av. median	5%-95%
All methods	168 (53)	0.31-0.94	0.60	0.43-0.77
Abbott Real-Time	34 (15)	0.36-0.87	0.57	0.40-0.78
Cepheid: GeneXpert	11 (6)	0.41-0.69	0.60	0.43-0.67
Cobas 6800/8800	13 (3)	0.43-0.94	0.54	0.44-0.82
Cobas Amplip TaqMan v2	50 (10)	0.46-0.87	0.60	0.48-0.74
Cobas HP TaqMan v2	6	0.44-0.77	0.64	0.46-0.75
Hologic: Aptima	11 (9)	0.40-0.67	0.58	0.47-0.67
Qiagen: Artus	5 (3)	0.49-0.71	0.60	0.50-0.70
Real-Time Single target	3	0.31-0.76	0.70	0.35-0.75
Roche: Cobas 4800	16 (5)	0.51-0.86	0.63	0.52-0.77
Roche: Cobas TaqMan	2 (1)	0.52-0.66		
Siemens: kPCR	6	0.49-0.64	0.57	0.50-0.63
Unspecified	6 (1)	0.41-0.70	0.61	0.44-0.68



Your result :
Difference in conc. is 0.46 log copies/mL

Your score : 2

Overall results	UK	All	Score
Median			
+/- 0.3 log	53	166	2
+/- >0.3 to 0.5 log	0	2	1
+/- >0.5 to 0.75 log	0	0	0
+/- >0.75 log	0	0	-1
One incorrect	0	1	0
Total	53	169	
%Correct	100.0	98.2	

