Individual Report	QCMD 2021 SARS-CoV-2 EQA Programme

Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1C	Qualitative	491649	11115/491649/3830	RU041

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Detection Frequency [2]	Sample Status [3]	Percentage Correct (All) [4]	
						(%)	*(n)*
SCV2_21C1C-01	SARS-CoV-2 Variant B.1	Transport Medium	3.44 dPCR Log10 IU/ml (DS1_3)	Detected	CORE	86.9	1294
SCV2_21C1C-02	SARS-CoV-2 Variant B.1	Transport Medium	4.05 dPCR Log10 IU/ml (DS1_2)	Frequently Detected	CORE	96.7	1294
SCV2_21C1C-03	SARS-CoV-2 UK (Alpha) Variant B1.1.7	Transport Medium	4.08 dPCR Log10 IU/ml	Frequently Detected	CORE	96.7	1294
SCV2_21C1C-04	SARS-CoV-2 SA (Beta) Variant B1.351	Transport Medium	4.18 dPCR Log10 IU/ml	Frequently Detected	CORE	96.8	1294
SCV2_21C1C-05	SARS-CoV-2 Variant B.1	Transport Medium	4.92 dPCR Log10 IU/ml (DS1_1)	Frequently Detected	CORE	98.4	1294

[1] **Sample Relationships:** Indicates the relationships of the samples within this challenge. The highest titre member of dilution series DS1 is indicated by DS1_1 and further members of the series as DS1_2, DS1_3 etc. in order of reducing titre. Additional dilution series are indicated by DS2 (e.g DS2_1, DS2_2 etc.), DS3 (e.g. DS3_1, DS3_2 etc.). If one duplicate pair is present this is indicated by 'D1'. Further duplicate pairs are indicated by 'D2', 'D3' etc.
[2] **Detection Frequency:** To aid qualitative analysis each panel member is assigned a frequency of detection. This is based on the peer group consensus of all qualitative results returned from participants within the EQA challenge / distribution.
[3] **Sample Status:** EQA samples are defined as "CORE" or "EDUCATIONAL". Core proficiency samples are reviewed by the QCMD Scientific Expert(s). This is on the basis of scientific information, clinical relevance, current literature and, where appropriate, professional clinical guidelines. Participating laboratories are expected to report core proficiency samples correctly within the EQA challenge / distribution.
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative result and the total number of datasets (n) reported for each panel member.
For further details please refer to the current participant manual.

[1] **Sample Relationships:** Includes dPCR Log10 Copies/ml, the value obtained using a digital droplet PCR assay (modified from Eurosurveillance Jan 2020 Corman et al).

Please note: The values provided are for reference only. The values obtained by individual participating laboratories will vary from the dPCR values provided. This is because quantitation is dependent on the molecular workflow each laboratory uses (i.e. nucleic acid extraction and molecular platform / assay) as well as the standards or reference material used to calibrate the molecular workflow. In the absence of an International Standard or Certified Reference Material (CRM), QCMD uses Internal Reference Materials (IRMs) with values established using a dPCR reference assay in order to support the consistency and traceability of the EQA materials. This also helps aid the comparison of results across laboratories.

Your Summary Results

EQA Assessment Group [1]	Commercial
Core Panel Detection (Qualitative) Score [2]	0

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Core Panel Members Results

Sample Code	Qualitative Results			Your Quantitative Data (for information only) [3]		
	Percentage Correct (All) [4]	Your Result [5]	Detection Score [6]	Reported Value	Unitage	Cycle Threshold
SCV2_21C1C-01	86.9	Positive	0		N/A	38.1
SCV2_21C1C-02	96.7	Positive	0		N/A	34.4
SCV2_21C1C-03	96.7	Positive	0		N/A	33.7
SCV2_21C1C-04	96.8	Positive	0		N/A	34.9
SCV2_21C1C-05	98.4	Positive	0		N/A	30.4

[1] **EQA Assessment Group:** To aid data analysis, participant results are grouped according to the molecular amplification/detection method specified within their molecular workflow for this challenge / distribution. For further details refer to the *Additional Information: Individual Panel Member Analysis* section of this report.

[2] **Core Panel Detection (Qualitative) Score:** An overall core panel detection score provided per challenge / distribution.

[3] **Quantitative Data (for information only):** This is the quantitative value, unitage and cycle threshold you provided when you submitted your results. For qualitative programmes this information is not used as part of your formal EQA assessment.

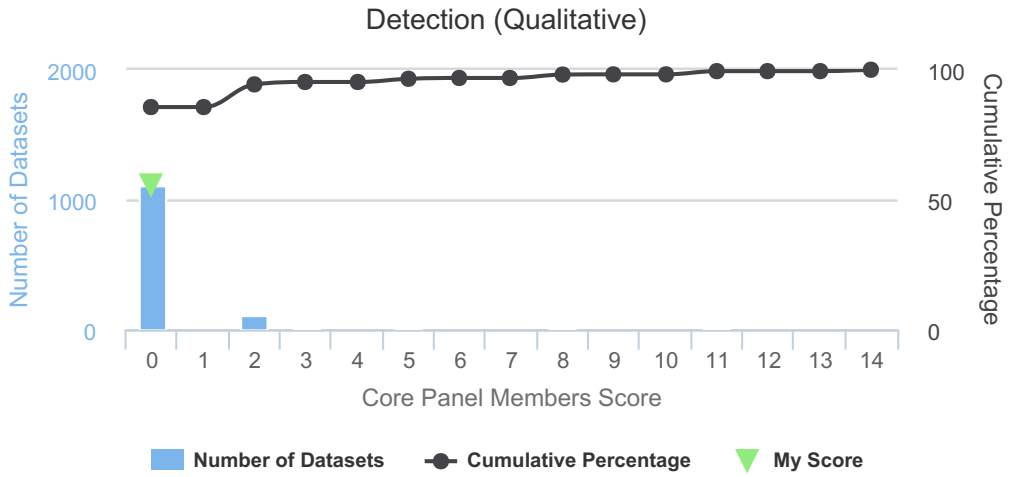
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.

[5] **Your Result:** The qualitative result you reported for each sample within this EQA challenge / distribution.

[6] **Detection Score:** Your detection (qualitative) scores are based on the assigned detection frequency of each panel members, where 0 (zero) is "highly satisfactory" and 3 (three) is "highly unsatisfactory". Scores are provided for individual panel members.

For further details please refer to the current participant manual.

Core Panel Member Score Breakdown



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Core Panel Member Score Breakdown - Detection: This figure gives you a breakdown of the qualitative detection scores for all qualitative datasets returned within this EQA challenge / distribution independent of the EQA assessment group. Panel detection scores are generated from only those panel members that are defined as “CORE”.

For further details please refer to the current participant manual.

My Workflow Details

The details of the workflow(s) used to submit your results for this challenge.

Name	SARS-CoV-2 (v4)
Description	
Targets	V coronavirus

Assays	*Extraction* - Manual Extraction Process
	• Commercial
	  ◦ Kit Manufacturer: *DNA-Technology R&P LLC*
	  ◦ Kit Type: *PREP NA for RNA/DNA, kit version P-002/1EU*
	
	Amplification - DNA-Technology R&P - DTprime
	• Multiplex
	• Commercial
	  ◦ Kit Manufacturer: *DNA-Technology R&D LLC*
	  ◦ Kit Type: *SARS-CoV-2/SARS-CoV Multiplex REAL-TIME PCR Detection Kit*
	  ◦ Kit Version: *R1-P436-S3/9EU*

Further Programme Details

Number of Participants	806
Number of Countries	59
Number of Respondents	700
Number of Datasets Submitted	1294
Qualitative Results Returned	1294 (100.0%)

EQA Programme Aims

To assess the proficiency of laboratories in the detection of the new variant SARS-CoV-2 coronavirus. To assess the proficiency of laboratories in the differentiation of different coronavirus genotypes.

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Feedback and Enquiries

Participants are encouraged to read the QCMD Participants' Manual, which can be downloaded from the QCMD website.

Any enquiries should be submitted through the ‘Contact Us’ form that you can find in the ‘Help’ section of your QCMD (ITEMS) Participant Profile Area.