


Individual Report		QCMD 2021 SARS-CoV-2 EQA Programme					
Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory CZ023	

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]

GeneProof SARS-CoV-2

Core Panel Detection (Qualitative) Score ^[2]

0

Individual Report		QCMD 2021 SARS-CoV-2 EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
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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	33.1
SCV2_21C1C-02	96.7	Positive	0		N/A	28.5
SCV2_21C1C-03	96.7	Positive	0		N/A	28.22
SCV2_21C1C-04	96.8	Positive	0		N/A	27.65
SCV2_21C1C-05	98.4	Positive	0		N/A	24.27

[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.

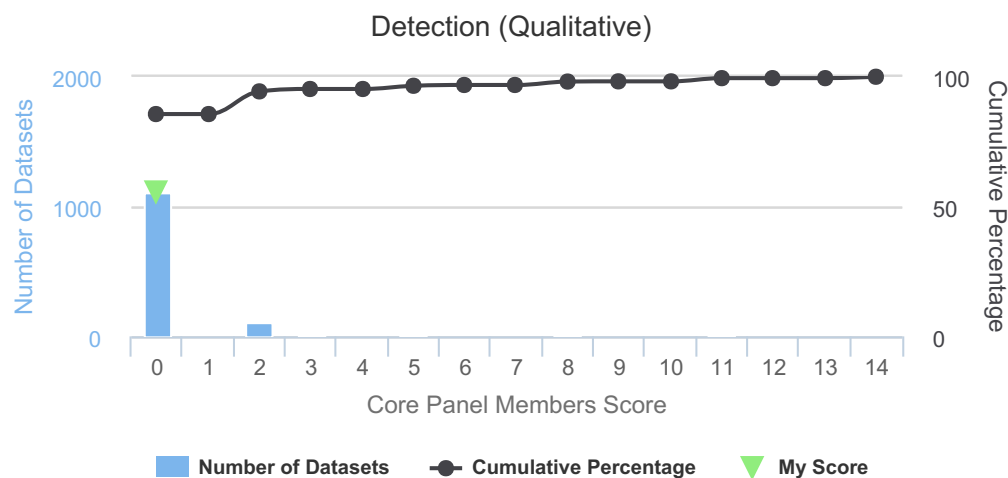
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.


[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






Individual Report		QCMD 2021 SARS-CoV-2 EQA Programme			 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory CZ023

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	GeneProof SARS-CoV-2 Advanced PCR Kit-croBEE NA (v2)
Description	
Targets	 coronavirus
Assays	<ul style="list-style-type: none">  <i>Extraction - GeneProof - croBEE NA16 Nucleic Acid Extraction System</i> <ul style="list-style-type: none"> ● Commercial <ul style="list-style-type: none"> ○ Kit Manufacturer: <i>GeneProof</i> ○ Kit Type: <i>croBEE 201A Nucleid Acid Extraction Kit</i>  <i>Amplification - GeneProof - croBEE Real-Time PCR System</i> <ul style="list-style-type: none"> ● Commercial <ul style="list-style-type: none"> ○ Kit Manufacturer: <i>GeneProof</i> ○ Kit Type: <i>GeneProof SARS-CoV-2 Advanced PCR Kit</i> ○ Kit Version: <i>GP</i>

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.

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Panel member analysis is separated into CORE samples followed by EDUCATIONAL samples.

Additional Core Samples Information

The following section has been categorised as shown below:

Core ► Qualitative

Individual Panel Member Analysis (Qualitative)

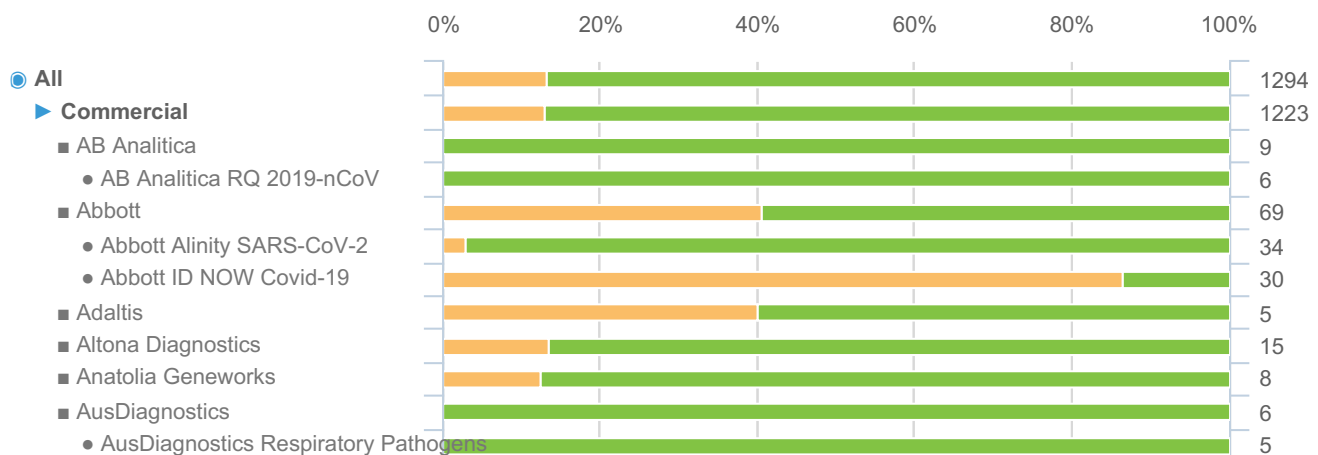
Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution. The principal level of assessment is at the individual method level which is defined based on your reported “amplification/detection method” and other laboratories using the same or similar amplification/detection methods.

To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or in house technology/method. The highest level assessment grouping is “All” participant reported qualitative results.

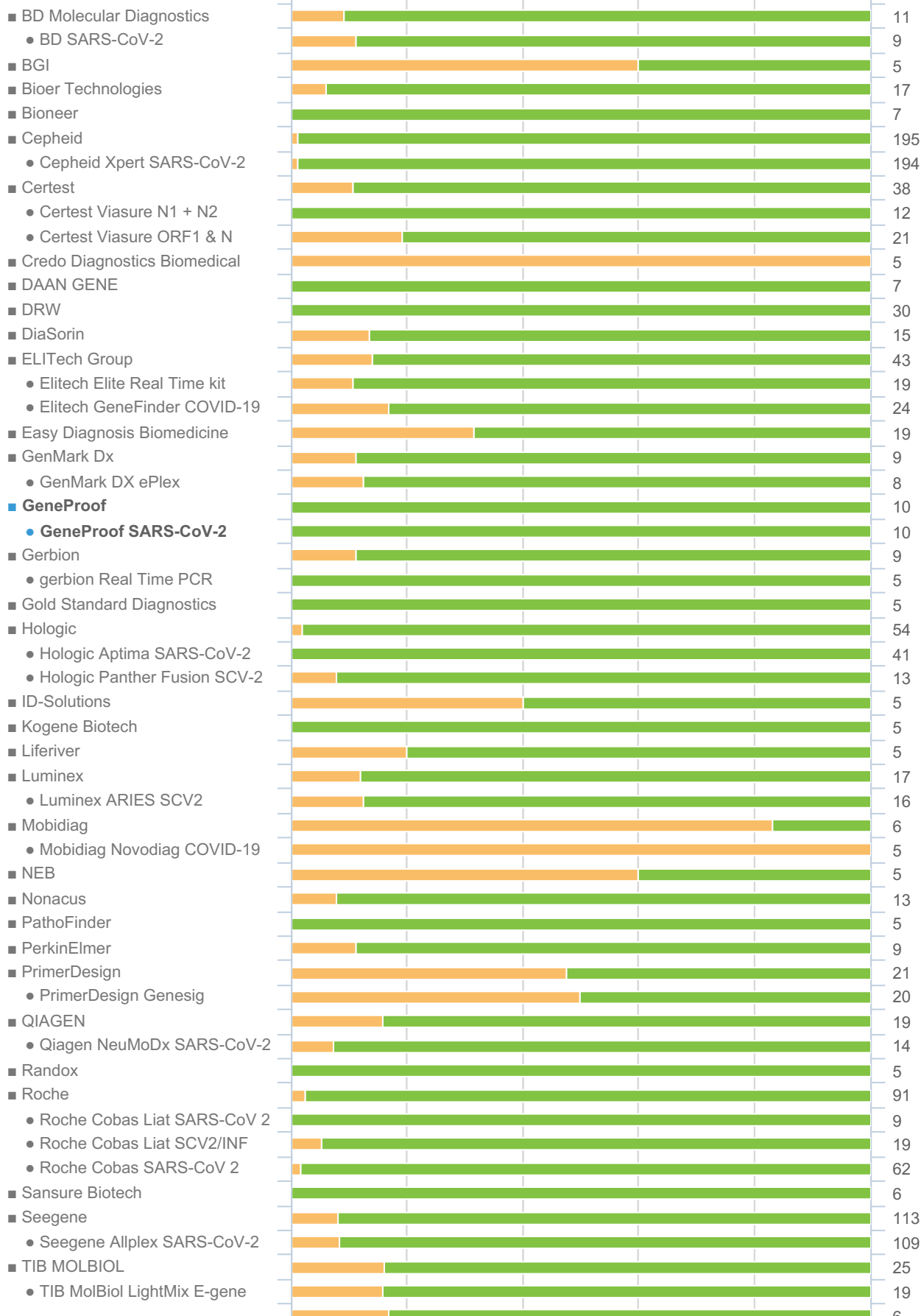
A breakdown of qualitative results reported by participants on each of the panel members within this EQA challenge / distribution is provided below. You can compare your results to those within your EQA assessment group and those obtained within other EQA assessment groups or to the overall consensus for each sample within this EQA challenge / distribution.

SCV2_21C1C-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(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



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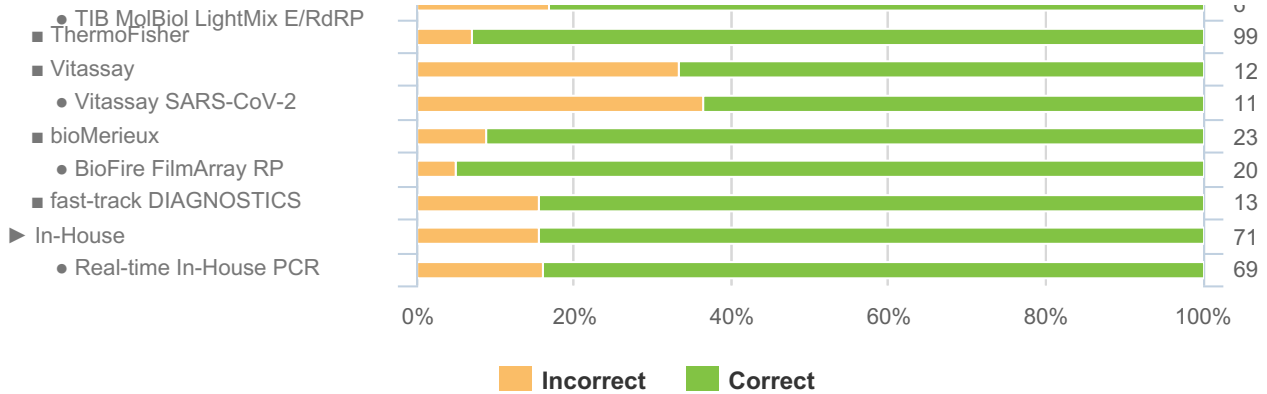
Number of Values in Groups

Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory: CZ023
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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	488415	2677/488415/3830	CZ023

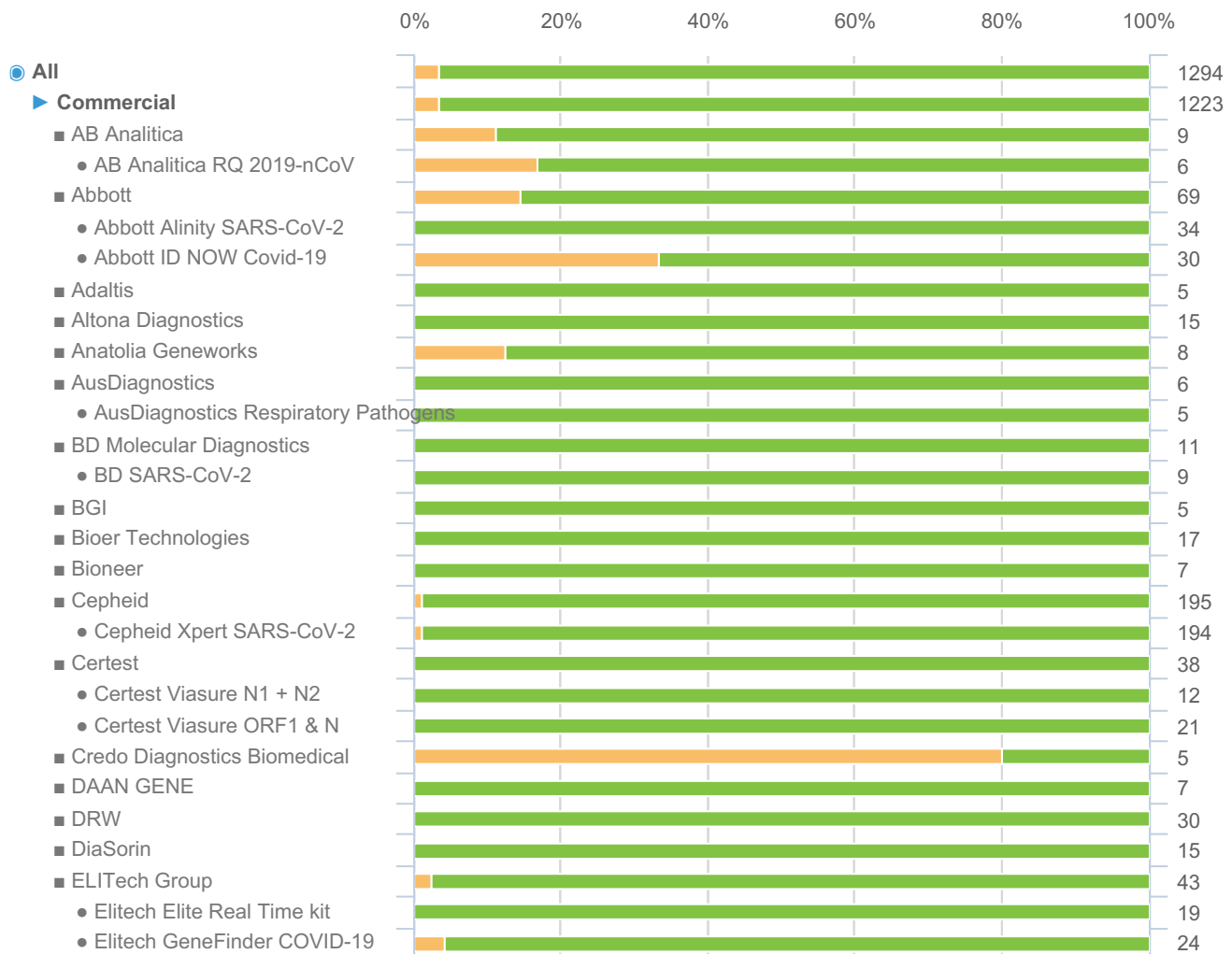
Groups below n=5: 1drop Inc. (n=1), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ Resp/ABFlu-CoV-2 (n=1), AITbiotech (n=2), AITbiotech - AITbiotech abTES COVID-19 (n=2), AMT (n=4), AMT - AMT Resolute SARS-CoV-2 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m (n=4), Abbott - Abbott ID NOW (n=1), Algimed Techno (n=1), Algimed Techno - Algimed Alsense SARS-CoV-2 (n=1), ArtBioTech (n=1), ArtBioTech - ArtTest COVID-19 (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), BD Molecular Diagnostics - BD SARS-CoV-2/Flu (n=2), Bio-Rad (n=3), Bio-Rad - Bio-Rad SARS-CoV-2 (n=3), BioMaxima (n=2), BioMaxima - BioMaxima SARS-Cov-2 (n=2), Biocartis (n=3), Biocartis - Biocartis Idylla SARS-CoV-2 (n=3), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bosch (n=1), Bosch - Bosch Vivalytic SARS-CoV-2 (n=1), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), CO-Diagnostics.Inc (n=1), CO-Diagnostics.Inc - Co-Diagnostics Inc Logix Smart (n=1), Cepheid - Cepheid Xpert carba-r (n=1), Certest - Certest Viasure S (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=1), Certest - Certest Viasure SCV2/FLU/RSV (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), DiaCarta (n=2), DiaCarta - DiaCarta QuantiVirus PCR kit (n=2), DNA-Technology Russia (n=2), DNA-Technology Russia - DNA-Technology Covid-19 (n=2), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Diana Biotechnologies (n=2), Diana Biotechnologies - Diana Biotechnologies Covid-19 (n=2), Diatheva (n=1), Diatheva - Diatheva COVID-19 (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), Eurofins (n=2), Eurofins - Eurofins ViroBOAR (n=2), FMBA (n=2), FMBA - FMBA AmpliTest SARS-CoV-2 (n=2), GenMark Dx - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneFirst (n=1), GeneFirst - GeneFirst Covid-19 (n=1), Genematrix (n=2), Genematrix - Genematrix NeoPlex (n=2), Genestore (n=1), Genestore - Genestore Covid-19 PCR (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gensutek (n=3), Gensutek - Gensutek Covid-19 qPCR (n=2), Gensutek - Gensutek SARS-CoV-2 qPCR (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=4), Grifols (n=1), Grifols - Grifols Procleix SARS-CoV-2 (n=1), Hain Lifescience (n=2), Hain Lifescience - Hain Lifescience SARS-CoV (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), IDT (n=1), IDT - IDT N1+N2 (n=1), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), Imegen (n=4), Imegen - Imegen SARS-CoV-2 (n=2), Imegen - Imegen SARS-CoV-2 Plus (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KrosGen (n=1), KrosGen - KrosGen KrosQuanT SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabTurbo (n=2), LabTurbo - LabTurbo Covid-19 (n=2), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Luminex - Luminex NxTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=3), Maccura Biotechnology - Maccura SARS-CoV-2 (n=3), MedicoFarma (n=1), MedicoFarma - MedicoFarma MediPAN COVID SARS-CoV-2 (n=1), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=2), Mobidiag - Mobidiag Amplidiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), NEB - NEB Luna SARS-CoV-2 (n=1), NEB - NEB SARS-CoV-2 (n=4), NZYTech (n=2), NZYTech - NZYTech SARS-CoV-2 (n=2), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RealAccurate SCV-2 (n=4), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), PentaBase (n=2), PentaBase - PentaBase CoviDetect (n=2), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=1), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), Q-Sens (n=2), Q-Sens - Q-Sens COVID-19 (n=2), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - Qiagen QIAstat-Dx SCV2 (n=4), QuantuMDx (n=1), QuantuMDx - QuantuMDx SARS-CoV-2 (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=3), Roche - Roche Cobas SARS-CoV-2 (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=2), Sacace - Sacace SARS-CoV-2 (n=2), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=1), Seegene - Seegene Allplex SCV2/Flu/RSV (n=4), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=1), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=1), Siam Bioscience (n=1), Siam Bioscience - Siam Bioscience SARS-CoV-2 (n=1), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=2), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=2), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Tianlong (n=2), Tianlong - Tianlong COVID-19 (n=2), USTAR (n=1), USTAR - USTAR EasyNat SARS-CoV-2 (n=1), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Yourgene Health (n=2), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=2), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=2)

Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory CZ023
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Groups Rolled Up: Adaltis - Adaltis MOLgen SARS-CoV-2 (n=5), Altona Diagnostics - Altona Diagnostics RS SCV2 (n=15), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=8), BGI - BGI Real Time PCR (n=5), Bioer Technologies - Bioer SARS-CoV-2 (n=17), Bioneer - Bioneer Accupower SARS-CoV-2 (n=7), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=5), DAAN GENE - DAAN Gene Covid-19 (n=7), DRW - DRW SAMBA II SARS-CoV-2 (n=30), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=19), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=5), ID-Solutions - ID SARS CoV-2 (n=5), Kogene Biotech - Kogene Powerchek (n=5), Liferiver - Liferiver 2019-nCoV (n=5), Nonacus - Nonacus VirPath SARS-CoV-2 (n=13), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=9), Randox - Randox Covid-19 QPCR (n=5), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=6), ThermoFisher - Thermofisher TaqPath COVID-19 (n=99), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=13)

SCV2_21C1C-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
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

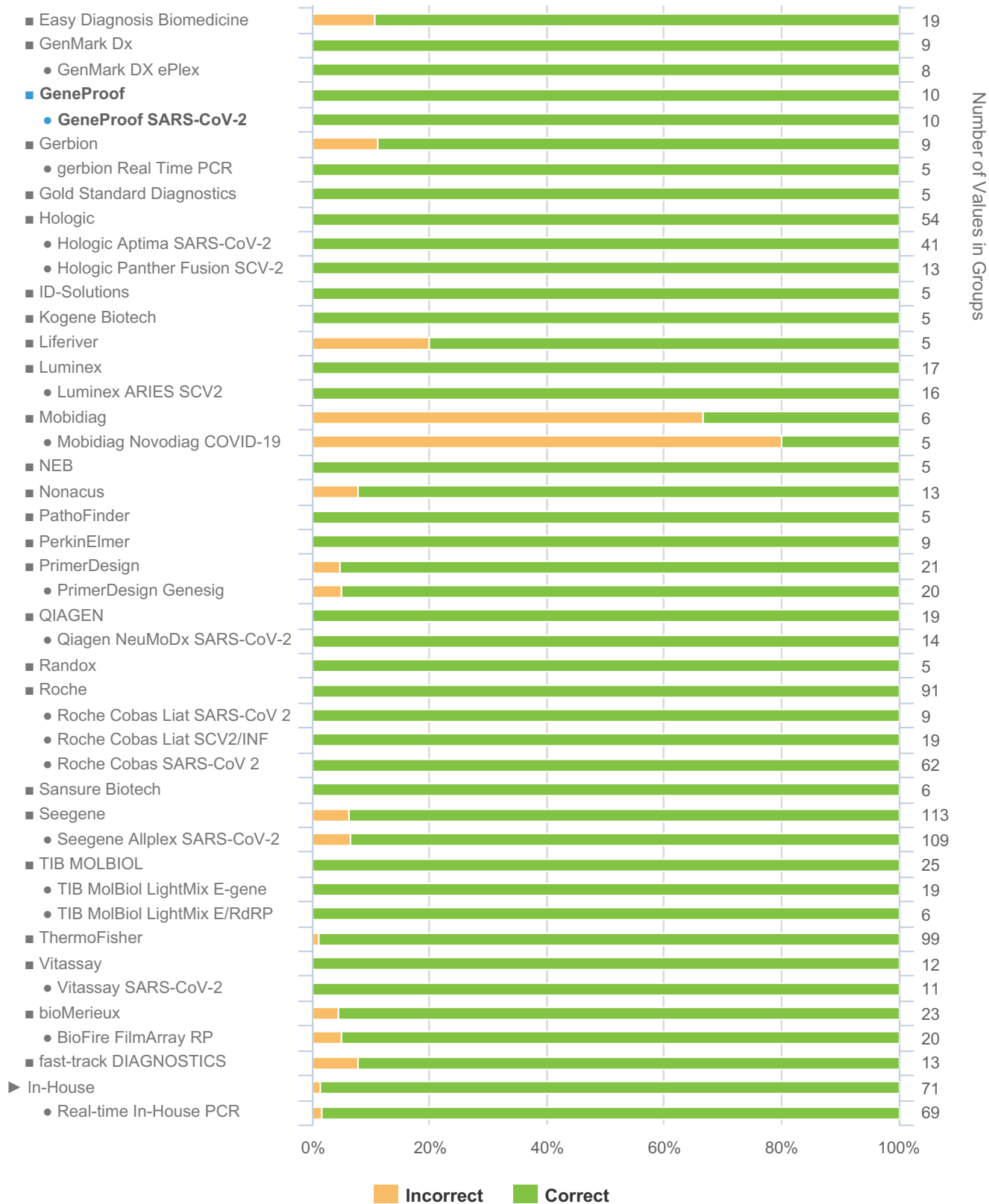


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QCMD 2021 SARS-CoV-2 EQA Programme



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QCMD 2021 SARS-CoV-2 EQA Programme



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QAV204215	SCV2_21	C1C	Qualitative	488415	2677/488415/3830	CZ023

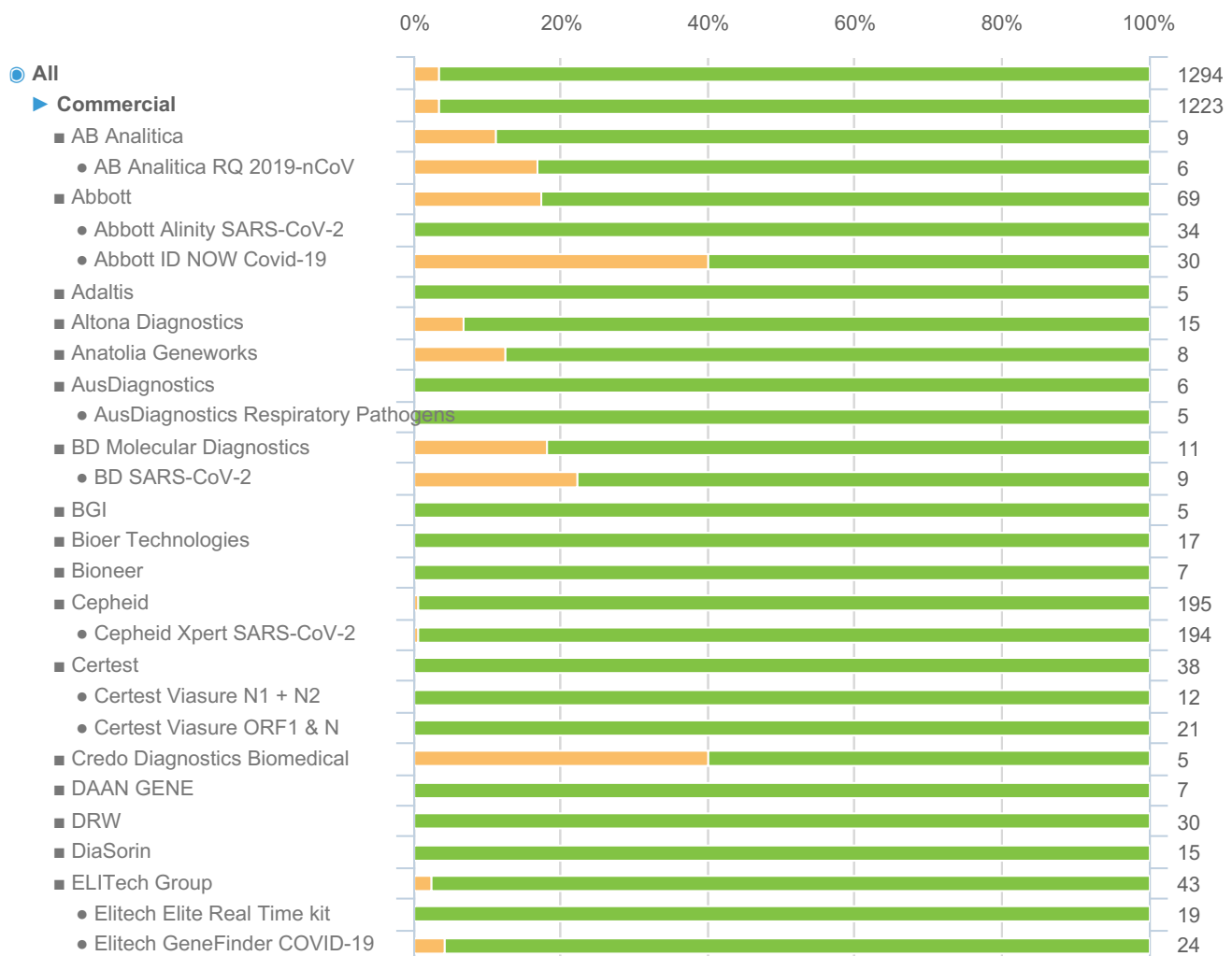
Groups below n=5: 1drop Inc. (n=1), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ Resp/ABFlu-CoV-2 (n=1), AITbiotech (n=2), AITbiotech - AITbiotech abTES COVID-19 (n=2), AMT (n=4), AMT - AMT Resolute SARS-CoV-2 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m (n=4), Abbott - Abbott ID NOW (n=1), Algimed Techno (n=1), Algimed Techno - Algimed Alsense SARS-CoV-2 (n=1), ArtBioTech (n=1), ArtBioTech - ArtTest COVID-19 (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), BD Molecular Diagnostics - BD SARS-CoV-2/Flu (n=2), Bio-Rad (n=3), Bio-Rad - Bio-Rad SARS-CoV-2 (n=3), BioMaxima (n=2), BioMaxima - BioMaxima SARS-Cov-2 (n=2), Biocartis (n=3), Biocartis - Biocartis Idylla SARS-CoV-2 (n=3), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bosch (n=1), Bosch - Bosch Vivalytic SARS-CoV-2 (n=1), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), CO-Diagnostics.Inc (n=1), CO-Diagnostics.Inc - Co-Diagnostics Inc Logix Smart (n=1), Cepheid - Cepheid Xpert carba-r (n=1), Certest - Certest Viasure S (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=1), Certest - Certest Viasure SCV2/FLU/RSV (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), DiaCarta (n=2), DiaCarta - DiaCarta QuantiVirus PCR kit (n=2), DNA-Technology Russia (n=2), DNA-Technology Russia - DNA-Technology Covid-19 (n=2), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Diana Biotechnologies (n=2), Diana Biotechnologies - Diana Biotechnologies Covid-19 (n=2), Diatheva (n=1), Diatheva - Diatheva COVID-19 (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), Eurofins (n=2), Eurofins - Eurofins ViroBOAR (n=2), FMBA (n=2), FMBA - FMBA AmpliTest SARS-CoV-2 (n=2), GenMark Dx - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneFirst (n=1), GeneFirst - GeneFirst Covid-19 (n=1), Genematrix (n=2), Genematrix - Genematrix NeoPlex (n=2), Genestore (n=1), Genestore - Genestore Covid-19 PCR (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gensutek (n=3), Gensutek - Gensutek Covid-19 qPCR (n=2), Gensutek - Gensutek SARS-CoV-2 qPCR (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=4), Grifols (n=1), Grifols - Grifols Procleix SARS-CoV-2 (n=1), Hain Lifescience (n=2), Hain Lifescience - Hain Lifescience SARS-CoV (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), IDT (n=1), IDT - IDT N1+N2 (n=1), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), Imegen (n=4), Imegen - Imegen SARS-CoV-2 (n=2), Imegen - Imegen SARS-CoV-2 Plus (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KrosGen (n=1), KrosGen - KrosGen KrosQuanT SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabTurbo (n=2), LabTurbo - LabTurbo Covid-19 (n=2), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Luminex - Luminex NxTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=3), Maccura Biotechnology - Maccura SARS-CoV-2 (n=3), MedicoFarma (n=1), MedicoFarma - MedicoFarma MediPAN COVID SARS-CoV-2 (n=1), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=2), Mobidiag - Mobidiag Amplidiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), NEB - NEB Luna SARS-CoV-2 (n=1), NEB - NEB SARS-CoV-2 (n=4), NZYTech (n=2), NZYTech - NZYTech SARS-CoV-2 (n=2), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RealAccurate SCV-2 (n=4), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), PentaBase (n=2), PentaBase - PentaBase CoviDetect (n=2), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=1), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), Q-Sens (n=2), Q-Sens - Q-Sens COVID-19 (n=2), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - Qiagen QIAstat-Dx SCV2 (n=4), QuantuMDx (n=1), QuantuMDx - QuantuMDx SARS-CoV-2 (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=3), Roche - Roche Cobas SARS-CoV-2 (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=2), Sacace - Sacace SARS-CoV-2 (n=2), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=1), Seegene - Seegene Allplex SCV2/Flu/RSV (n=4), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=1), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=1), Siam Bioscience (n=1), Siam Bioscience - Siam Bioscience SARS-CoV-2 (n=1), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=2), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=2), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Tianlong (n=2), Tianlong - Tianlong COVID-19 (n=2), USTAR (n=1), USTAR - USTAR EasyNat SARS-CoV-2 (n=1), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Yourgene Health (n=2), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=2), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=2)

Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory CZ023
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Groups Rolled Up: Adaltis - Adaltis MOLgen SARS-CoV-2 (n=5), Altona Diagnostics - Altona Diagnostics RS SCV2 (n=15), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=8), BGI - BGI Real Time PCR (n=5), Bioer Technologies - Bioer SARS-CoV-2 (n=17), Bioneer - Bioneer Accupower SARS-CoV-2 (n=7), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=5), DAAN GENE - DAAN Gene Covid-19 (n=7), DRW - DRW SAMBA II SARS-CoV-2 (n=30), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=19), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=5), ID-Solutions - ID SARS CoV-2 (n=5), Kogene Biotech - Kogene Powerchek (n=5), Liferiver - Liferiver 2019-nCoV (n=5), Nonacus - Nonacus VirPath SARS-CoV-2 (n=13), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=9), Randox - Randox Covid-19 QPCR (n=5), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=6), ThermoFisher - Thermofisher TaqPath COVID-19 (n=99), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=13)

SCV2_21C1C-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1C-03	SARS-CoV-2 UK (Alpha) Variant B.1.1.7	Transport Medium	4.08 dPCR Log10 IU/ml	Frequently Detected	CORE	96.7	1294

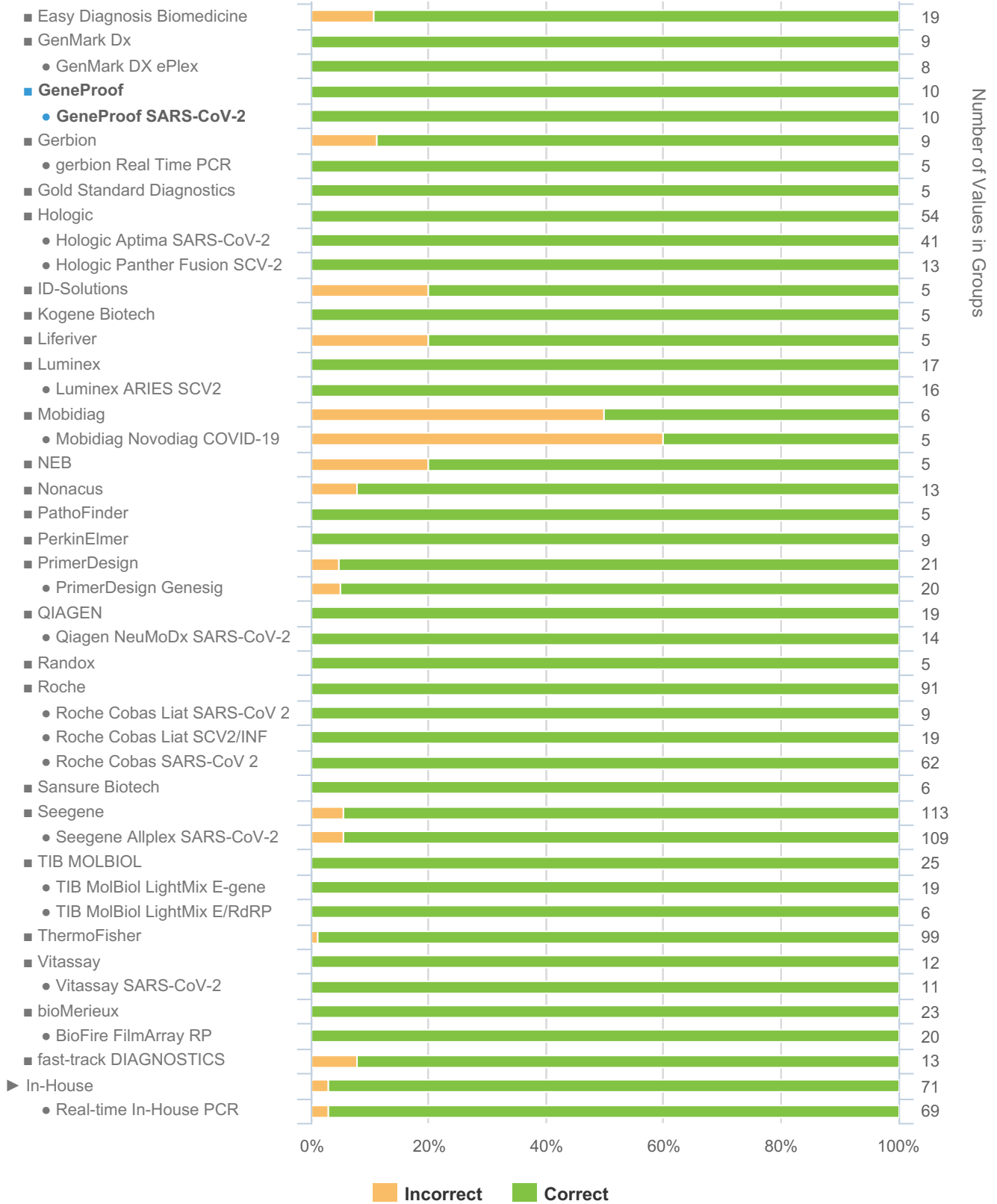


Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory: CZ023
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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	488415	2677/488415/3830	CZ023

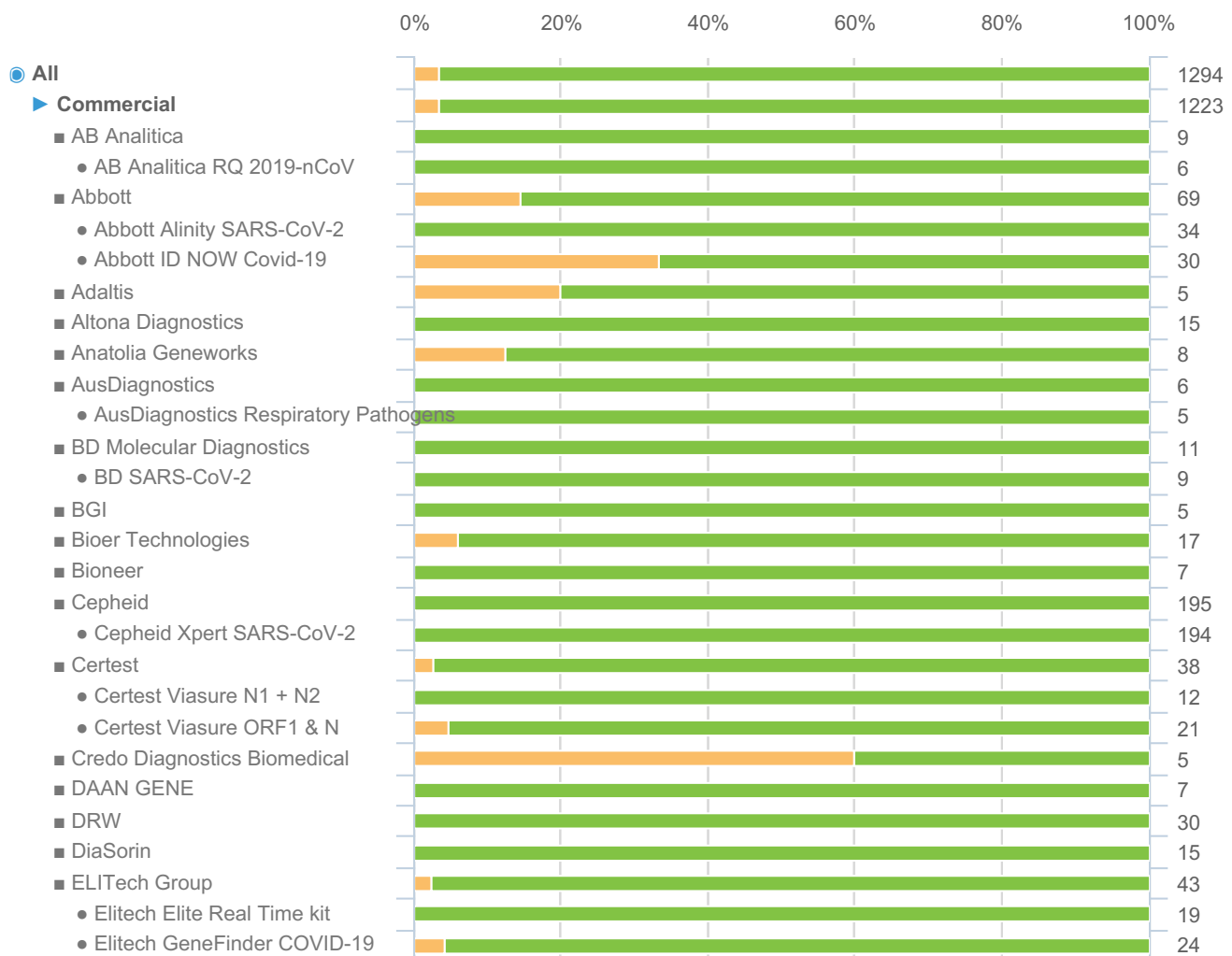
Groups below n=5: 1drop Inc. (n=1), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ Resp/ABFlu-CoV-2 (n=1), AITbiotech (n=2), AITbiotech - AITbiotech abTES COVID-19 (n=2), AMT (n=4), AMT - AMT Resolute SARS-CoV-2 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m (n=4), Abbott - Abbott ID NOW (n=1), Algimed Techno (n=1), Algimed Techno - Algimed Alsense SARS-CoV-2 (n=1), ArtBioTech (n=1), ArtBioTech - ArtTest COVID-19 (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), BD Molecular Diagnostics - BD SARS-CoV-2/Flu (n=2), Bio-Rad (n=3), Bio-Rad - Bio-Rad SARS-CoV-2 (n=3), BioMaxima (n=2), BioMaxima - BioMaxima SARS-Cov-2 (n=2), Biocartis (n=3), Biocartis - Biocartis Idylla SARS-CoV-2 (n=3), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bosch (n=1), Bosch - Bosch Vivalytic SARS-CoV-2 (n=1), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), CO-Diagnostics.Inc (n=1), CO-Diagnostics.Inc - Co-Diagnostics Inc Logix Smart (n=1), Cepheid - Cepheid Xpert carba-r (n=1), Certest - Certest Viasure S (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=1), Certest - Certest Viasure SCV2/FLU/RSV (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), DiaCarta (n=2), DiaCarta - DiaCarta QuantiVirus PCR kit (n=2), DNA-Technology Russia (n=2), DNA-Technology Russia - DNA-Technology Covid-19 (n=2), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Diana Biotechnologies (n=2), Diana Biotechnologies - Diana Biotechnologies Covid-19 (n=2), Diatheva (n=1), Diatheva - Diatheva COVID-19 (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), Eurofins (n=2), Eurofins - Eurofins ViroBOAR (n=2), FMBA (n=2), FMBA - FMBA AmpliTest SARS-CoV-2 (n=2), GenMark Dx - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneFirst (n=1), GeneFirst - GeneFirst Covid-19 (n=1), Genematrix (n=2), Genematrix - Genematrix NeoPlex (n=2), Genestore (n=1), Genestore - Genestore Covid-19 PCR (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gensutek (n=3), Gensutek - Gensutek Covid-19 qPCR (n=2), Gensutek - Gensutek SARS-CoV-2 qPCR (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=4), Grifols (n=1), Grifols - Grifols Procleix SARS-CoV-2 (n=1), Hain Lifescience (n=2), Hain Lifescience - Hain Lifescience SARS-CoV (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), IDT (n=1), IDT - IDT N1+N2 (n=1), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), Imegen (n=4), Imegen - Imegen SARS-CoV-2 (n=2), Imegen - Imegen SARS-CoV-2 Plus (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KrosGen (n=1), KrosGen - KrosGen KrosQuanT SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabTurbo (n=2), LabTurbo - LabTurbo Covid-19 (n=2), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Luminex - Luminex NxTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=3), Maccura Biotechnology - Maccura SARS-CoV-2 (n=3), MedicoFarma (n=1), MedicoFarma - MedicoFarma MediPAN COVID SARS-CoV-2 (n=1), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=2), Mobidiag - Mobidiag Amplidiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), NEB - NEB Luna SARS-CoV-2 (n=1), NEB - NEB SARS-CoV-2 (n=4), NZYTech (n=2), NZYTech - NZYTech SARS-CoV-2 (n=2), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RealAccurate SCV-2 (n=4), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), PentaBase (n=2), PentaBase - PentaBase CoviDetect (n=2), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=1), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), Q-Sens (n=2), Q-Sens - Q-Sens COVID-19 (n=2), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - Qiagen QIAstat-Dx SCV2 (n=4), QuantuMDx (n=1), QuantuMDx - QuantuMDx SARS-CoV-2 (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=3), Roche - Roche Cobas SARS-CoV-2 (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=2), Sacace - Sacace SARS-CoV-2 (n=2), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=1), Seegene - Seegene Allplex SCV2/Flu/RSV (n=4), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=1), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=1), Siam Bioscience (n=1), Siam Bioscience - Siam Bioscience SARS-CoV-2 (n=1), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=2), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=2), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Tianlong (n=2), Tianlong - Tianlong COVID-19 (n=2), USTAR (n=1), USTAR - USTAR EasyNat SARS-CoV-2 (n=1), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Yourgene Health (n=2), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=2), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=2)

Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory CZ023
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Groups Rolled Up: Adaltis - Adaltis MOLgen SARS-CoV-2 (n=5), Altona Diagnostics - Altona Diagnostics RS SCV2 (n=15), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=8), BGI - BGI Real Time PCR (n=5), Bioer Technologies - Bioer SARS-CoV-2 (n=17), Bioneer - Bioneer Accupower SARS-CoV-2 (n=7), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=5), DAAN GENE - DAAN Gene Covid-19 (n=7), DRW - DRW SAMBA II SARS-CoV-2 (n=30), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=19), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=5), ID-Solutions - ID SARS CoV-2 (n=5), Kogene Biotech - Kogene Powerchek (n=5), Liferiver - Liferiver 2019-nCoV (n=5), Nonacus - Nonacus VirPath SARS-CoV-2 (n=13), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=9), Randox - Randox Covid-19 QPCR (n=5), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=6), ThermoFisher - Thermofisher TaqPath COVID-19 (n=99), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=13)

SCV2_21C1C-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1C-04	SARS-CoV-2 SA (Beta) Variant B.1.351	Transport Medium	4.18 dPCR Log10 IU/ml	Frequently Detected	CORE	96.8	1294

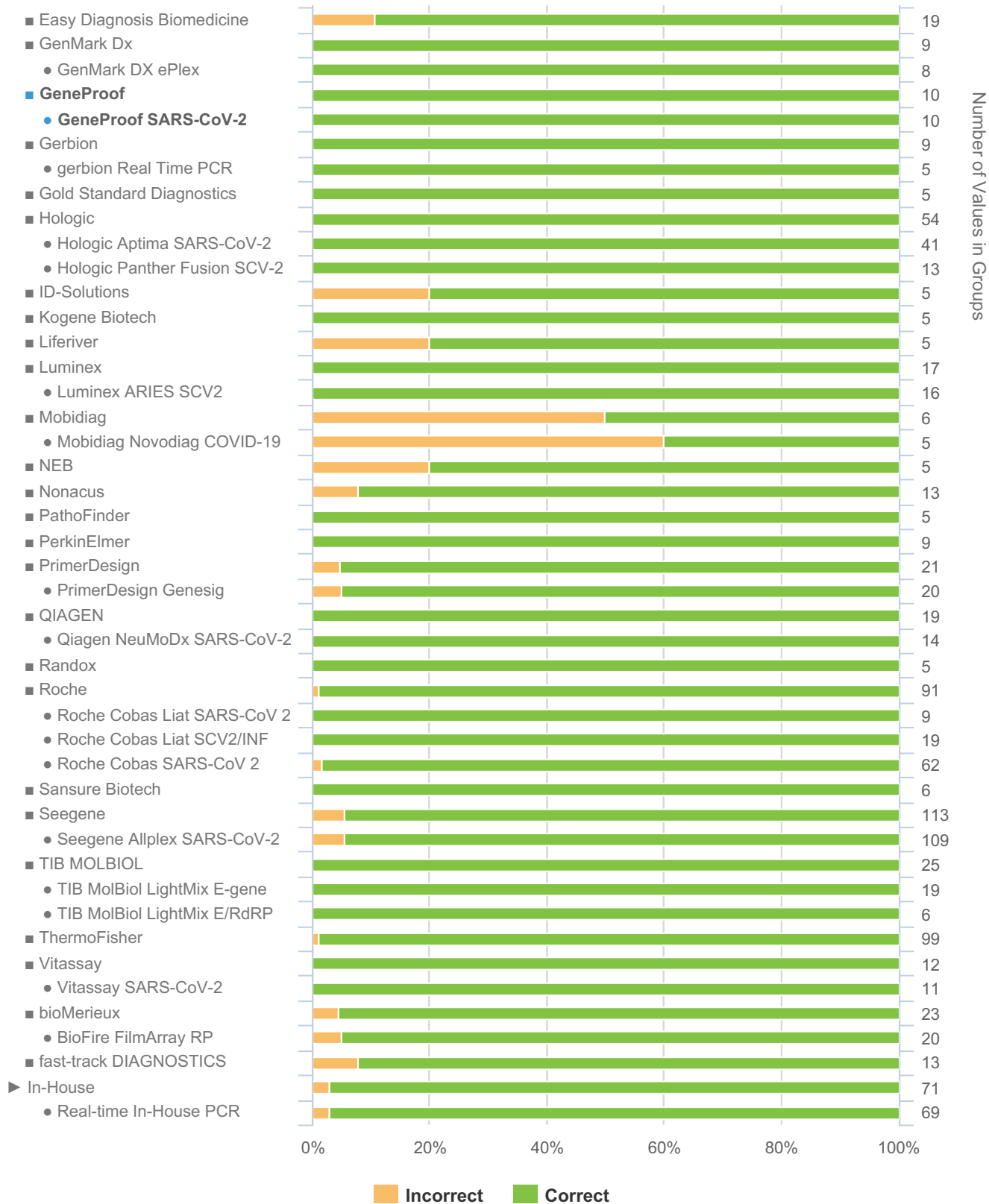


Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory: CZ023
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Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1C	Qualitative	488415	2677/488415/3830	CZ023

Groups below n=5: 1drop Inc. (n=1), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ Resp/ABFlu-CoV-2 (n=1), AITbiotech (n=2), AITbiotech - AITbiotech abTES COVID-19 (n=2), AMT (n=4), AMT - AMT Resolute SARS-CoV-2 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m (n=4), Abbott - Abbott ID NOW (n=1), Algimed Techno (n=1), Algimed Techno - Algimed Alsense SARS-CoV-2 (n=1), ArtBioTech (n=1), ArtBioTech - ArtTest COVID-19 (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), BD Molecular Diagnostics - BD SARS-CoV-2/Flu (n=2), Bio-Rad (n=3), Bio-Rad - Bio-Rad SARS-CoV-2 (n=3), BioMaxima (n=2), BioMaxima - BioMaxima SARS-Cov-2 (n=2), Biocartis (n=3), Biocartis - Biocartis Idylla SARS-CoV-2 (n=3), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bosch (n=1), Bosch - Bosch Vivalytic SARS-CoV-2 (n=1), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), CO-Diagnostics.Inc (n=1), CO-Diagnostics.Inc - Co-Diagnostics Inc Logix Smart (n=1), Cepheid - Cepheid Xpert carba-r (n=1), Certest - Certest Viasure S (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=1), Certest - Certest Viasure SCV2/FLU/RSV (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), DiaCarta (n=2), DiaCarta - DiaCarta QuantiVirus PCR kit (n=2), DNA-Technology Russia (n=2), DNA-Technology Russia - DNA-Technology Covid-19 (n=2), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Diana Biotechnologies (n=2), Diana Biotechnologies - Diana Biotechnologies Covid-19 (n=2), Diatheva (n=1), Diatheva - Diatheva COVID-19 (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), Eurofins (n=2), Eurofins - Eurofins ViroBOAR (n=2), FMBA (n=2), FMBA - FMBA AmpliTest SARS-CoV-2 (n=2), GenMark Dx - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneFirst (n=1), GeneFirst - GeneFirst Covid-19 (n=1), Genematrix (n=2), Genematrix - Genematrix NeoPlex (n=2), Genestore (n=1), Genestore - Genestore Covid-19 PCR (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gensutek (n=3), Gensutek - Gensutek Covid-19 qPCR (n=2), Gensutek - Gensutek SARS-CoV-2 qPCR (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=4), Grifols (n=1), Grifols - Grifols Procleix SARS-CoV-2 (n=1), Hain Lifescience (n=2), Hain Lifescience - Hain Lifescience SARS-CoV (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), IDT (n=1), IDT - IDT N1+N2 (n=1), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), Imegen (n=4), Imegen - Imegen SARS-CoV-2 (n=2), Imegen - Imegen SARS-CoV-2 Plus (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KrosGen (n=1), KrosGen - KrosGen KrosQuanT SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabTurbo (n=2), LabTurbo - LabTurbo Covid-19 (n=2), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Luminex - Luminex NxTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=3), Maccura Biotechnology - Maccura SARS-CoV-2 (n=3), MedicoFarma (n=1), MedicoFarma - MedicoFarma MediPAN COVID SARS-CoV-2 (n=1), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=2), Mobidiag - Mobidiag Amplidiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), NEB - NEB Luna SARS-CoV-2 (n=1), NEB - NEB SARS-CoV-2 (n=4), NZYTech (n=2), NZYTech - NZYTech SARS-CoV-2 (n=2), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RealAccurate SCV-2 (n=4), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), PentaBase (n=2), PentaBase - PentaBase CoviDetect (n=2), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=1), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), Q-Sens (n=2), Q-Sens - Q-Sens COVID-19 (n=2), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - Qiagen QIAstat-Dx SCV2 (n=4), QuantuMDx (n=1), QuantuMDx - QuantuMDx SARS-CoV-2 (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=3), Roche - Roche Cobas SARS-CoV-2 (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=2), Sacace - Sacace SARS-CoV-2 (n=2), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=1), Seegene - Seegene Allplex SCV2/Flu/RSV (n=4), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=1), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=1), Siam Bioscience (n=1), Siam Bioscience - Siam Bioscience SARS-CoV-2 (n=1), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=2), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=2), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Tianlong (n=2), Tianlong - Tianlong COVID-19 (n=2), USTAR (n=1), USTAR - USTAR EasyNat SARS-CoV-2 (n=1), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Yourgene Health (n=2), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=2), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=2)

Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme

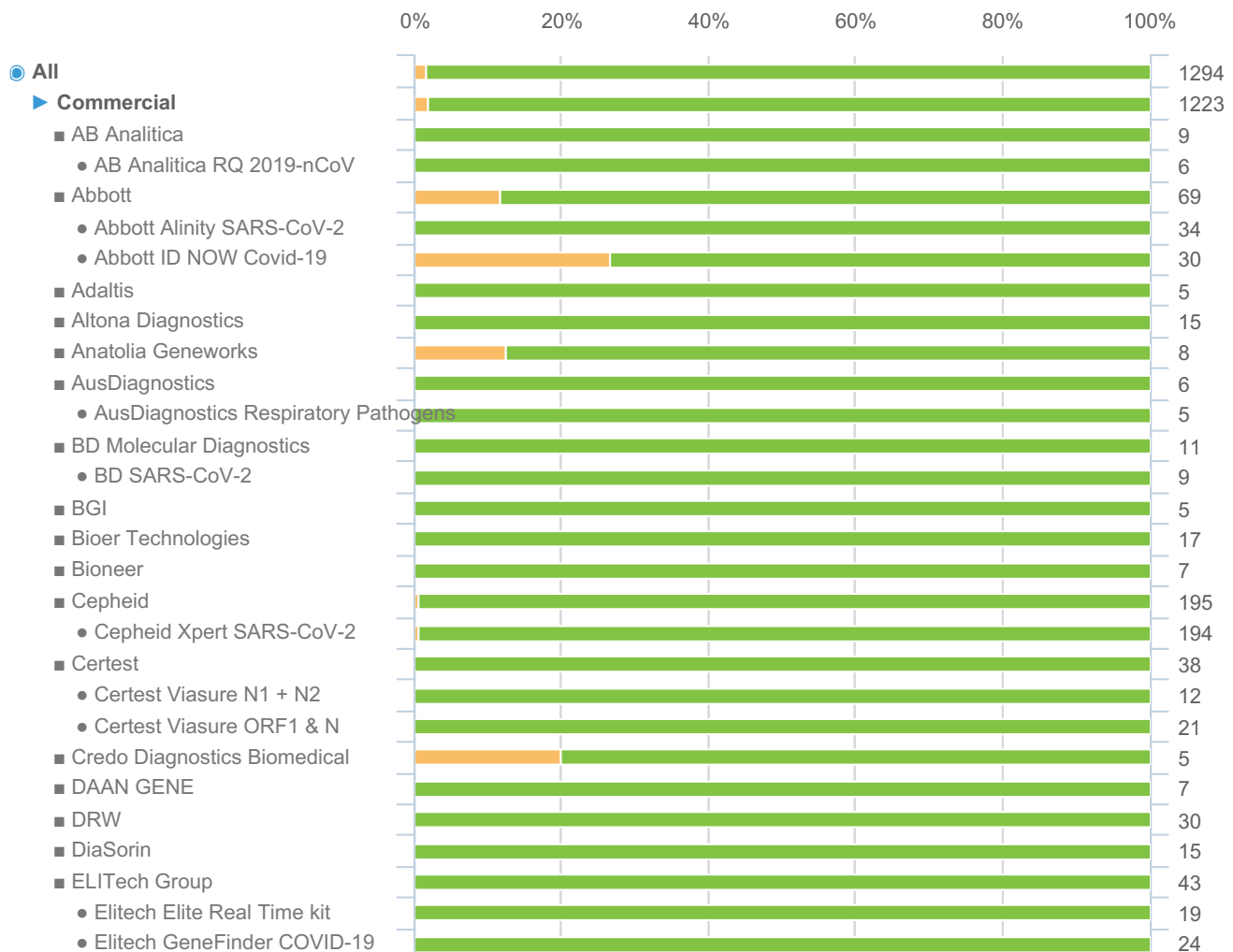


Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory CZ023
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Groups Rolled Up: Adaltis - Adaltis MOLgen SARS-CoV-2 (n=5), Altona Diagnostics - Altona Diagnostics RS SCV2 (n=15), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=8), BGI - BGI Real Time PCR (n=5), Bioer Technologies - Bioer SARS-CoV-2 (n=17), Bioneer - Bioneer Accupower SARS-CoV-2 (n=7), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=5), DAAN GENE - DAAN Gene Covid-19 (n=7), DRW - DRW SAMBA II SARS-CoV-2 (n=30), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=19), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=5), ID-Solutions - ID SARS CoV-2 (n=5), Kogene Biotech - Kogene Powerchek (n=5), Liferiver - Liferiver 2019-nCoV (n=5), Nonacus - Nonacus VirPath SARS-CoV-2 (n=13), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=9), Randox - Randox Covid-19 QPCR (n=5), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=6), ThermoFisher - Thermofisher TaqPath COVID-19 (n=99), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=13)

SCV2_21C1C-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
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

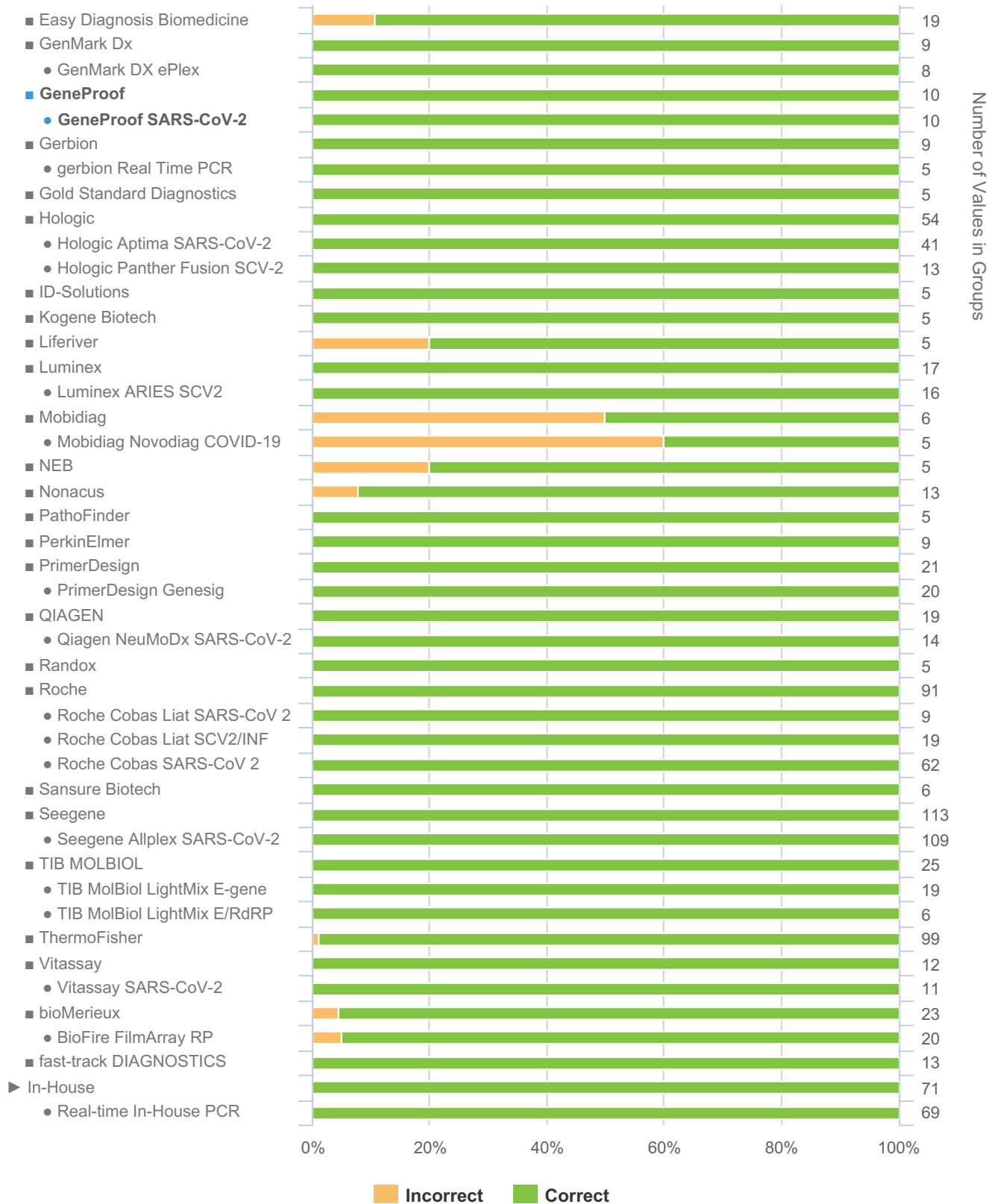


Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1C	Analysis Type: Qualitative	Dataset: 488415	Report UID: 2677/488415/3830	Laboratory: CZ023
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Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



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QAV204215	SCV2_21	C1C	Qualitative	488415	2677/488415/3830	CZ023

Groups below n=5: 1drop Inc. (n=1), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ Resp/ABFlu-CoV-2 (n=1), AITbiotech (n=2), AITbiotech - AITbiotech abTES COVID-19 (n=2), AMT (n=4), AMT - AMT Resolute SARS-CoV-2 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m (n=4), Abbott - Abbott ID NOW (n=1), Algimed Techno (n=1), Algimed Techno - Algimed Alsense SARS-CoV-2 (n=1), ArtBioTech (n=1), ArtBioTech - ArtTest COVID-19 (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), BD Molecular Diagnostics - BD SARS-CoV-2/Flu (n=2), Bio-Rad (n=3), Bio-Rad - Bio-Rad SARS-CoV-2 (n=3), BioMaxima (n=2), BioMaxima - BioMaxima SARS-Cov-2 (n=2), Biocartis (n=3), Biocartis - Biocartis Idylla SARS-CoV-2 (n=3), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bosch (n=1), Bosch - Bosch Vivalytic SARS-CoV-2 (n=1), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), CO-Diagnostics.Inc (n=1), CO-Diagnostics.Inc - Co-Diagnostics Inc Logix Smart (n=1), Cepheid - Cepheid Xpert carba-r (n=1), Certest - Certest Viasure S (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=1), Certest - Certest Viasure SCV2/FLU/RSV (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), DiaCarta (n=2), DiaCarta - DiaCarta QuantiVirus PCR kit (n=2), DNA-Technology Russia (n=2), DNA-Technology Russia - DNA-Technology Covid-19 (n=2), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Diana Biotechnologies (n=2), Diana Biotechnologies - Diana Biotechnologies Covid-19 (n=2), Diatheva (n=1), Diatheva - Diatheva COVID-19 (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), Eurofins (n=2), Eurofins - Eurofins ViroBOAR (n=2), FMBA (n=2), FMBA - FMBA AmpliTest SARS-CoV-2 (n=2), GenMark Dx - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneFirst (n=1), GeneFirst - GeneFirst Covid-19 (n=1), Genematrix (n=2), Genematrix - Genematrix NeoPlex (n=2), Genestore (n=1), Genestore - Genestore Covid-19 PCR (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gensutek (n=3), Gensutek - Gensutek Covid-19 qPCR (n=2), Gensutek - Gensutek SARS-CoV-2 qPCR (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=4), Grifols (n=1), Grifols - Grifols Procleix SARS-CoV-2 (n=1), Hain Lifescience (n=2), Hain Lifescience - Hain Lifescience SARS-CoV (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), IDT (n=1), IDT - IDT N1+N2 (n=1), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), Imegen (n=4), Imegen - Imegen SARS-CoV-2 (n=2), Imegen - Imegen SARS-CoV-2 Plus (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KrosGen (n=1), KrosGen - KrosGen KrosQuanT SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabTurbo (n=2), LabTurbo - LabTurbo Covid-19 (n=2), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Luminex - Luminex NxTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=3), Maccura Biotechnology - Maccura SARS-CoV-2 (n=3), MedicoFarma (n=1), MedicoFarma - MedicoFarma MediPAN COVID SARS-CoV-2 (n=1), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=2), Mobidiag - Mobidiag Amplidiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), NEB - NEB Luna SARS-CoV-2 (n=1), NEB - NEB SARS-CoV-2 (n=4), NZYTech (n=2), NZYTech - NZYTech SARS-CoV-2 (n=2), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RealAccurate SCV-2 (n=4), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), PentaBase (n=2), PentaBase - PentaBase CoviDetect (n=2), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=1), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), Q-Sens (n=2), Q-Sens - Q-Sens COVID-19 (n=2), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - Qiagen QIAstat-Dx SCV2 (n=4), QuantuMDx (n=1), QuantuMDx - QuantuMDx SARS-CoV-2 (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=3), Roche - Roche Cobas SARS-CoV-2 (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=2), Sacace - Sacace SARS-CoV-2 (n=2), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=1), Seegene - Seegene Allplex SCV2/Flu/RSV (n=4), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=1), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=1), Siam Bioscience (n=1), Siam Bioscience - Siam Bioscience SARS-CoV-2 (n=1), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=2), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=2), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Tianlong (n=2), Tianlong - Tianlong COVID-19 (n=2), USTAR (n=1), USTAR - USTAR EasyNat SARS-CoV-2 (n=1), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Yourgene Health (n=2), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=2), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=2)

Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



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