


Individual Report**QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study**

Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735	Laboratory: BG012
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Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships ^[1]	Detection Frequency ^[2]	Sample Status ^[3]	Percentage Correct (All) ^[4]	
						(%)	(n)
CVOP20S2-01	SARS-CoV-2	TM	4.30 dPCR Log10 Copies/ml (D1, DS1_2)	Frequently Detected	CORE	99.0	486
CVOP20S2-02	Coronavirus NL63	TM	4.64 dPCR Log10 Copies/ml	Negative	EDUCATIONAL	97.3	486
CVOP20S2-03	SARS-CoV-2	TM	3.30 dPCR Log10 Copies/ml (DS1_3)	Frequently Detected	CORE	96.3	486
CVOP20S2-04	Coronavirus OC43	TM	4.03 dPCR Log10 Copies/ml	Negative	EDUCATIONAL	97.9	486
CVOP20S2-05	Negative	TM		Negative	CORE	99.2	486
CVOP20S2-06	SARS-CoV-2	TM	4.30 dPCR Log10 Copies/ml (D1, DS1_2)	Frequently Detected	CORE	98.8	486
CVOP20S2-07	SARS-CoV-2	TM	5.30 dPCR Log10 Copies/ml (DS1_1)	Frequently Detected	CORE	99.2	486
CVOP20S2-08	SARS-CoV-2	TM	2.30 dPCR Log10 Copies/ml (DS1_4)	Detected	CORE	84.8	486

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[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.


Samples **CVOP20S2-02** and **CVOP20S2-04** were included in the panel as educational specificity samples. For this assessment, these samples have been assigned as SARS-CoV-2 Negative.

Your Summary Results

EQA Assessment Group ^[1]	Commercial
Core Panel Detection (Qualitative) Score ^[2]	<input type="text" value="0"/>

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
CVOP20S2-01	99.0	Positive	0		N/A	38.6
CVOP20S2-03	96.3	Positive	0		N/A	39.9
CVOP20S2-05	99.2	Negative	0		N/A	-
CVOP20S2-06	98.8	Positive	0		N/A	35.5
CVOP20S2-07	99.2	Positive	0		N/A	31.4
CVOP20S2-08	84.8	Positive	0		N/A	40.1

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[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.

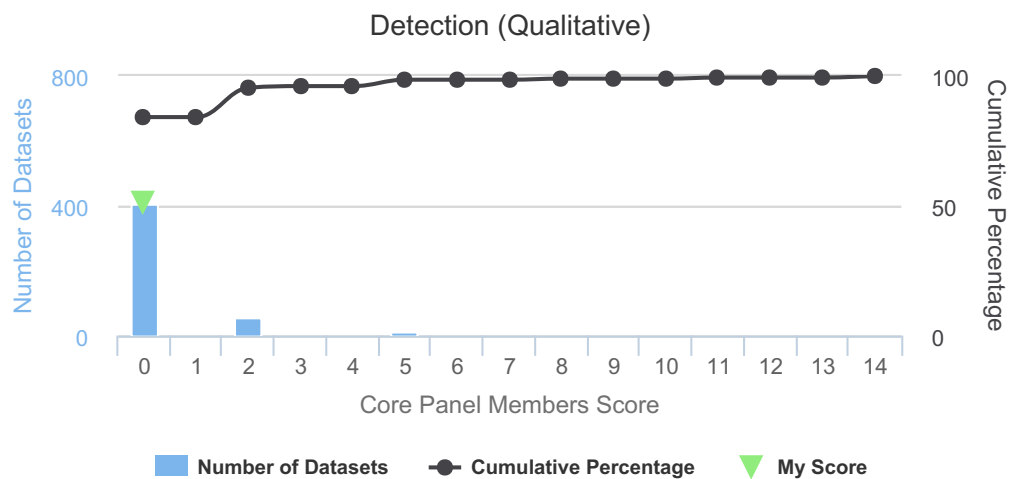
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.

[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



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.

Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study				 <small>Quality Control for Molecular Diagnostics</small>	
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My Workflow Details

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

Name	SARS-CoV-2 (v2)
Description	
Targets	 coronavirus
Assays	<ul style="list-style-type: none">  <i>Extraction</i> - Genolution, Inc., Republic of Korea - Genolution <ul style="list-style-type: none"> • Commercial <ul style="list-style-type: none"> ◦ Kit Manufacturer: <i>Genolution, Inc., Republic of Korea</i> ◦ Kit Type: <i>NX-48S Viral NA Kit</i>  <i>Amplification</i> - DNA-TECHNOLOGY, RUSSIA - DT Lite 4S1 <ul style="list-style-type: none"> • Multiplex • Commercial <ul style="list-style-type: none"> ◦ Kit Manufacturer: <i>DNA-TECHNOLOGY, RUSSIA</i> ◦ Kit Type: <i>SARS-CoV-2/SARS-CoV, Multiplex REAL-TIME PCR Detection Kit</i> ◦ Kit Version: <i>R3-P436-S3/9EU</i>

Educational Panel Members Results

Sample Code	Qualitative Results			Your Quantitative Data (for information only) ^[1]		
	Percentage Correct (All) ^[2]	Your Result ^[3]	Detection Score ^[4]	Reported Value	Unitage	Cycle Threshold
CVOP20S2-02	97.3	Negative	0		N/A	-
CVOP20S2-04	97.9	Negative	0		N/A	-


[1] **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.

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

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

[4] **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.

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Further Programme Details

Number of Participants	404
Number of Countries	60
Number of Respondents	323
Number of Datasets Submitted	486
Qualitative Results Returned	486 (100.0%)

Comments

Eight (1.6%) laboratories reported sample CVOP20S2-02 as Negative for SARS-CoV-2 and correctly reported the sample as Coronavirus NL63.

Nine (1.9%) laboratories reported sample CVOP20S2-04 as Negative for SARS-CoV-2 and correctly reported the sample as Coronavirus OC43.


EQA Programme Aims

To assess the proficiency of laboratories molecular technologies for the detection and determination of SARS-CoV-2 from other coronaviruses.

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)

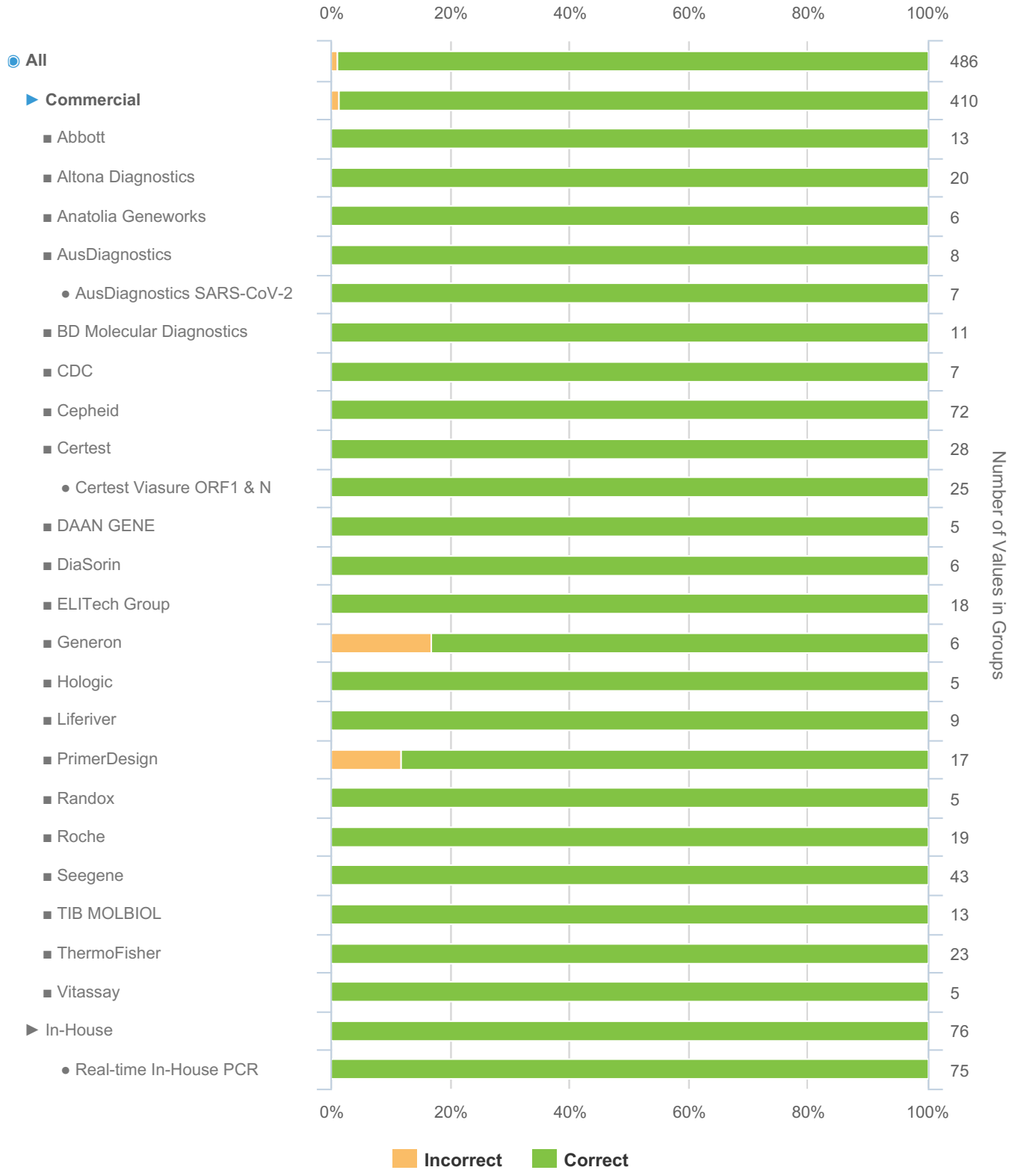
Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution. The principal level of assessment is at the individual 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.

CVOP20S2-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-01	SARS-CoV-2	TM	4.30 dPCR Log10 Copies/ml (D1, DS1_2)	Frequently Detected	CORE	99.0	486



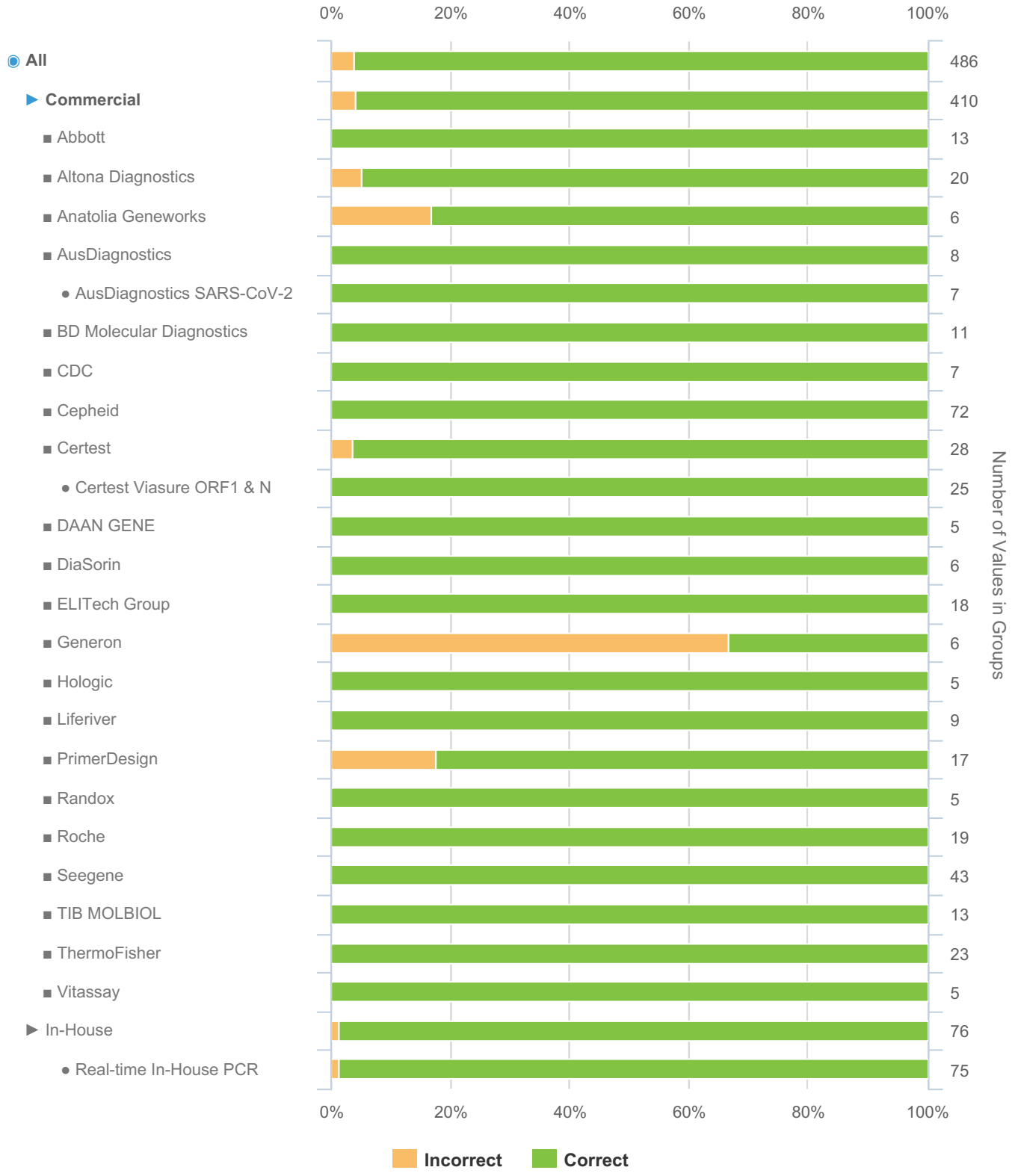
Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study					
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Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

CVOP20S2-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-03	SARS-CoV-2	TM	3.30 dPCR Log10 Copies/ml (DS1_3)	Frequently Detected	CORE	96.3	486



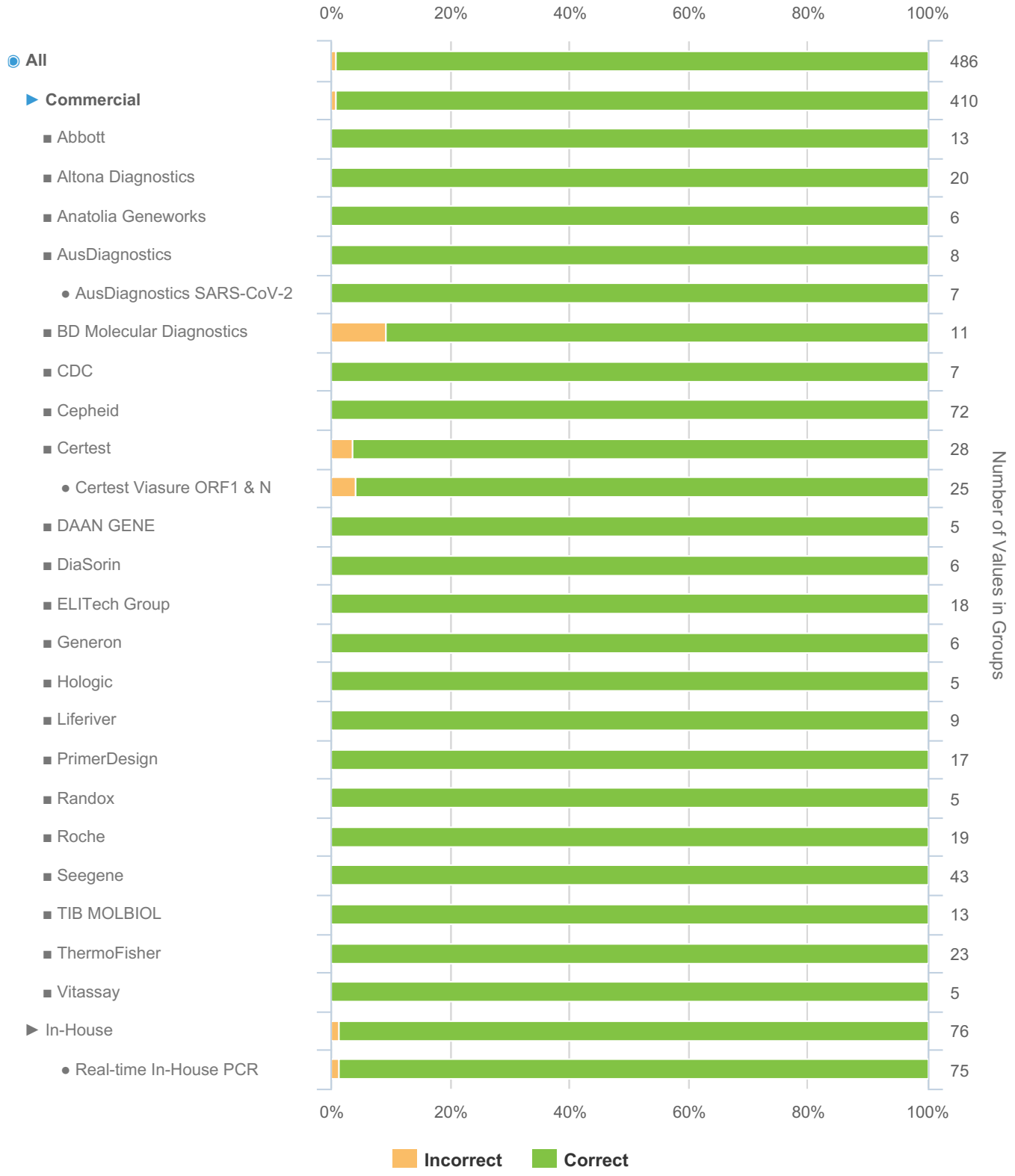
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Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

CVOP20S2-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-05	Negative	TM		Negative	CORE	99.2	486



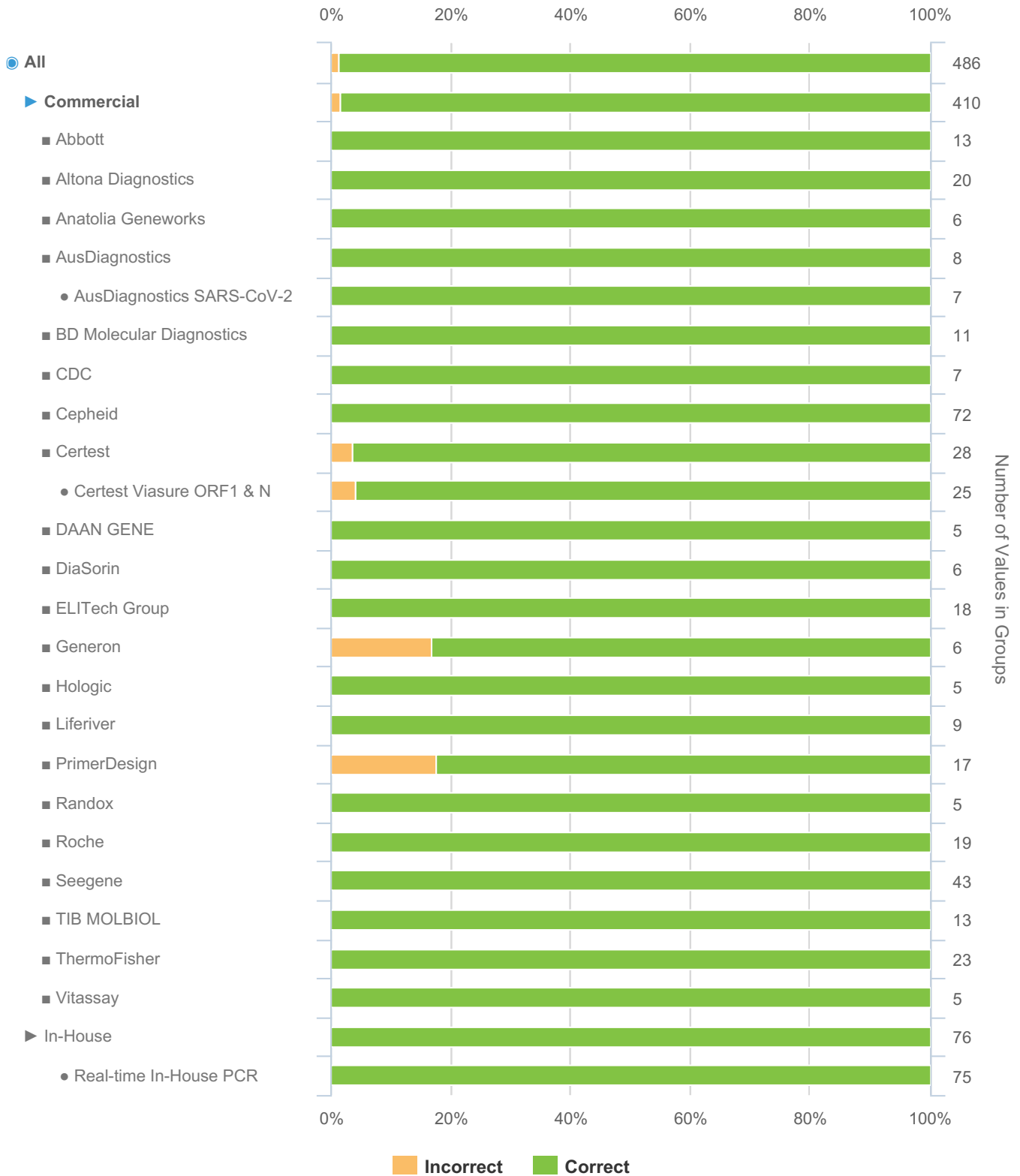
Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study					
	Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735


Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

CVOP20S2-06 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-06	SARS-CoV-2	TM	4.30 dPCR Log10 Copies/ml (D1, DS1_2)	Frequently Detected	CORE	98.8	486



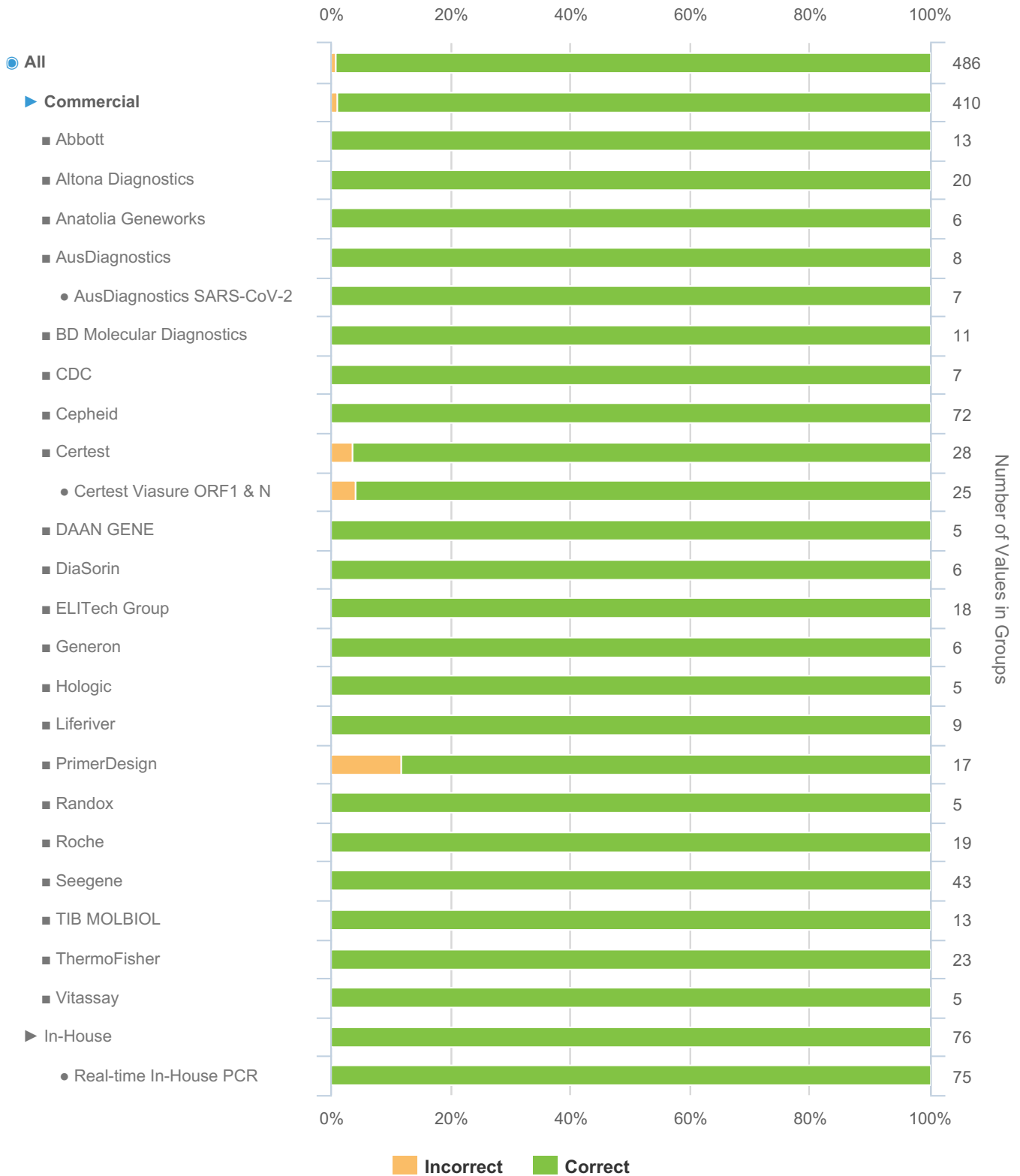
Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study						
	Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735	Laboratory BG012


Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

CVOP20S2-07 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-07	SARS-CoV-2	TM	5.30 dPCR Log10 Copies/ml (DS1_1)	Frequently Detected	CORE	99.2	486



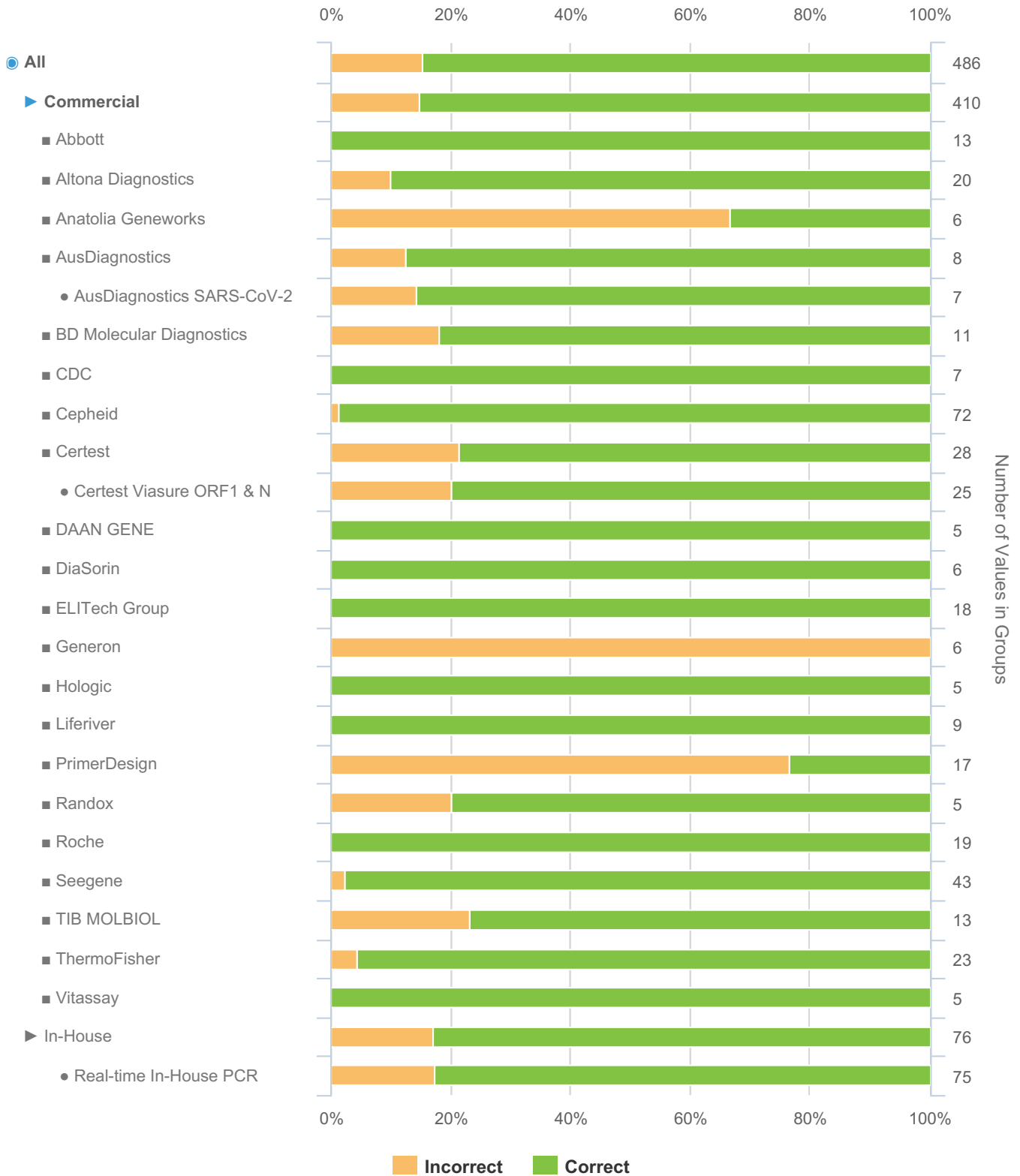
Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study						
	Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735	Laboratory BG012


Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

CVOP20S2-08 - Qualitative Results Breakdown


Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-08	SARS-CoV-2	TM	2.30 dPCR Log10 Copies/ml (DS1_4)	Detected	CORE	84.8	486



Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study					
	Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735

Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Biorline (n=1), Biorline - Biorline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735	Laboratory BG012

Additional Educational Samples Information

The following section has been categorised as shown below:

Educational ► Qualitative

Individual Panel Member Analysis (Qualitative)

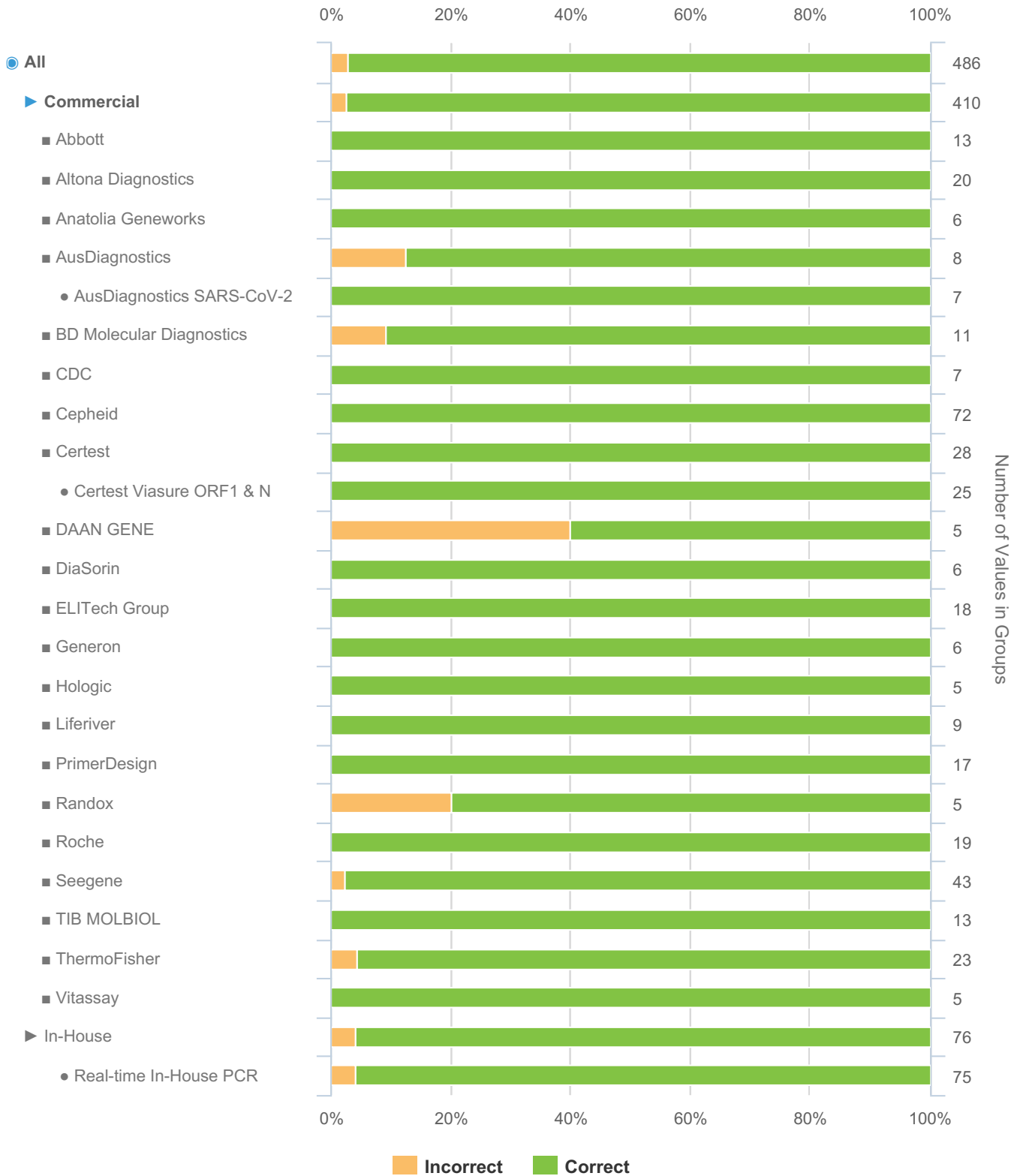
Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution. The principal level of assessment is at the individual 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.

CVOP20S2-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-02	Coronavirus NL63	TM	4.64 dPCR Log10 Copies/ml	Negative	EDUCATIONAL	97.3	486



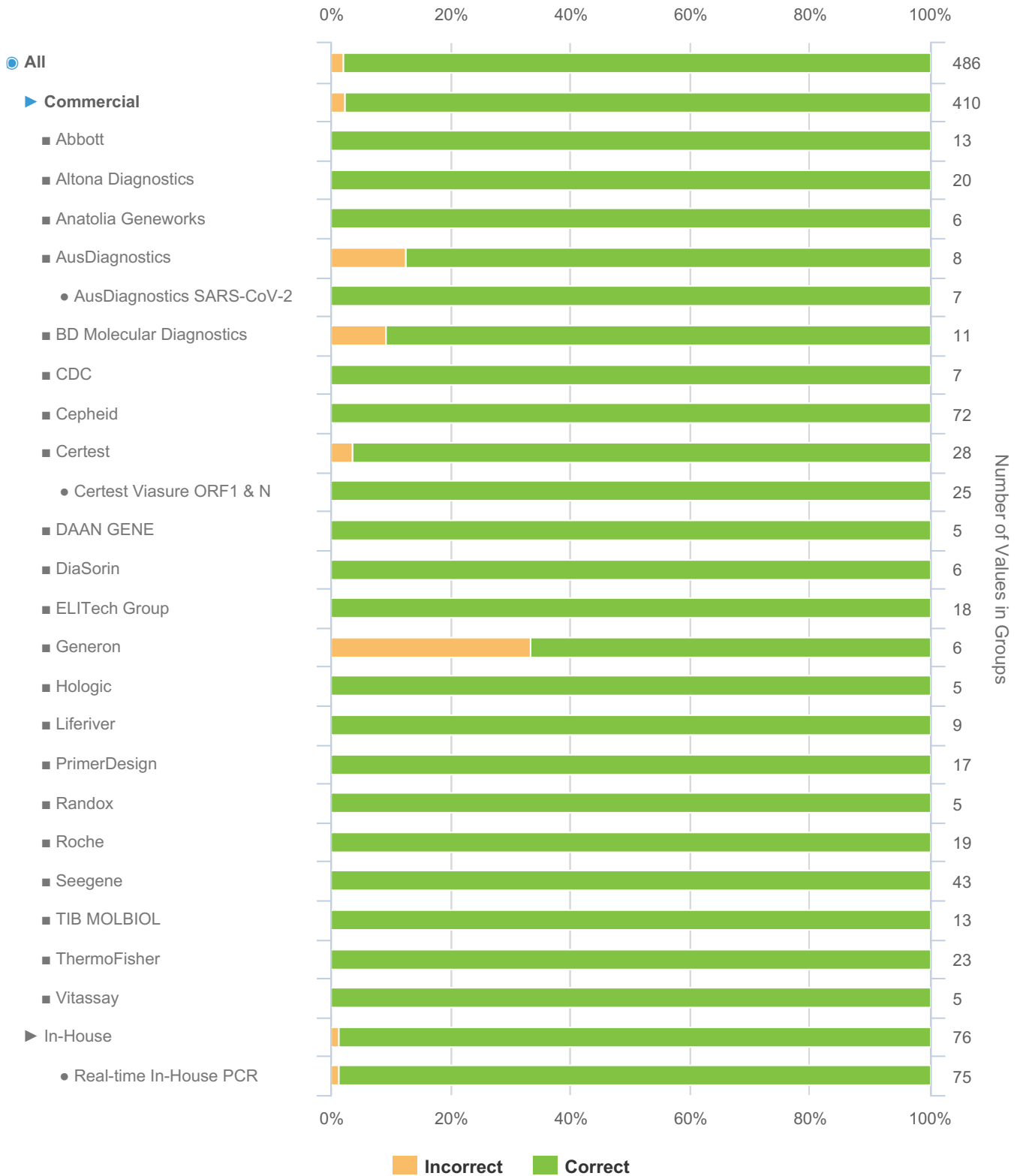
Individual Report	QCMD 2020 Coronavirus Outbreak Preparedness EQA Pilot Study					
	Catalogue Code: QAV204214	Ref Code: CVOP20	Challenge: S2	Analysis Type: Qualitative	Dataset: 347587	Report UID: 11232/347587/2735


Groups below n=5: AB Analytica (n=3), AB Analytica - AB Analytica REALQUALITY RQ (n=3), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Adaltis (n=1), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BGI (n=2), BGI - BGI Real Time PCR (n=2), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Bioneer (n=1), Bioneer - Bioneer Accupower SARS-CoV-2 (n=1), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Certest - Certest Viasure S (n=3), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaSorin - DiaSorin Liaison SARS-CoV-2 (n=2), DiaSorin - DiaSorin Simplexa (n=4), ECO Diagnostica LTDA (n=2), ECO Diagnostica LTDA - ECO Diagnostica SARS-CoV-2 (n=2), EUROIMMUN (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=1), Eurobio Scientific (n=2), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=2), GeneReach (n=2), GeneReach - GeneReach POCKIT Central SARS-CoV-2 (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex COVID-19 (n=2), Generi Biotech (n=2), Generi Biotech - Generi Biotech SARS-CoV-2 (n=2), Genesystem (n=1), Genesystem - Genesystem Smartcheck SARS CoV-2 (n=1), Gerbion (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=1), Grifols (n=2), Grifols - Grifols Procleix SARS-CoV-2 (n=2), Imegen (n=2), Imegen - Imegen SARS-CoV-2 (n=2), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), KH Medical (n=1), KH Medical - KH Medical RAD1 COVID 19 (n=1), Kogene Biotech (n=2), Kogene Biotech - Kogene Powerchek (n=2), LIFEPRINT (n=1), LIFEPRINT - SARS-CoV-2-PreMix (n=1), LabGenomics (n=1), LabGenomics - LabGenomics LabGun Covid-19 (n=1), Luminex (n=2), Luminex - Luminex ARIES (n=2), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Master Diagnostica - Master Diagnostica SARS-CoV-2 (n=1), MiRXES (n=2), MiRXES - MiRXES Fortitude Covid-19 (n=2), Mobidiag (n=2), Mobidiag - Mobidiag Amplidiag (n=1), Mobidiag - Mobidiag Novodiag (n=1), NeuMoDx (n=1), NeuMoDx - NeuMoDx SARSCoV-2 (n=1), PerkinElmer (n=2), PerkinElmer - PerkinElmer Coronavirus Nucleic Acid Detection kit (n=1), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=1), QIAGEN (n=4), QIAGEN - Qiagen QIAstat-Dx (n=4), R-Biopharm (n=2), R-Biopharm - R-Biopharm RIDA Gene (n=2), Randox - Randox COVID-19 Array (n=4), Randox - Randox Extended Array (n=1), SD BioSensor (n=3), SD BioSensor - SD BioSensor SARS-CoV-2 (n=3), Sacace (n=3), Sacace - Sacace SARS-CoV-2 (n=3), Seasun Biomaterials (n=3), Seasun Biomaterials - Seasun Biomaterials U-Top Covid-19 (n=3), Serosep (n=3), Serosep - Serosep Real Time PCR (n=3), SolGent (n=1), SolGent - SolGent DiaPlexQ-nCoV (n=1), bioMerieux (n=4), bioMerieux - BioFire FilmArray (n=1), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=3), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott SARS-CoV-2 (n=13), Altona Diagnostics - Altona Diagnostics RealStar (n=20), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=6), BD Molecular Diagnostics - BD SARS-CoV-2 (n=11), CDC - CDC SARS-CoV-2 (n=7), Cepheid - Cepheid Xpert SARS-CoV-2 (n=72), DAAN GENE - DAAN Gene Covid-19 (n=5), ELITech Group - Elitech GeneFinder (n=18), Generon - Generon VetFinder (n=6), Hologic - Hologic Panther Fusion (n=5), Liferiver - Liferiver 2019-nCoV (n=9), PrimerDesign - PrimerDesign Genesig (n=17), Roche - Roche Cobas SARS-CoV 2 (n=19), Seegene - Seegene Allplex SARS-CoV-2 (n=43), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=23), Vitassay - Vitassay SARS-CoV-2 (n=5)

CVOP20S2-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CVOP20S2-04	Coronavirus OC43	TM	4.03 dPCR Log10 Copies/ml	Negative	EDUCATIONAL	97.9	486



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