Individual Report	QCMD 2020 Hepatitis C virus Genotype EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

> **NOTE:** Summary information only.

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-01	HCV Type 1a	Plasma		Type 1	a	CORE	94.4	179
HCVGT20S-02	HCV Type 4c	Plasma		Type 4	c	EDUCATIONAL	25.7	179
HCVGT20S-03	HCV Type 1b	Plasma	D1	Type 1	b	CORE	93.3	179
HCVGT20S-04	HCV Type 1b	Plasma	D1	Type 1	b	CORE	91.1	179
HCVGT20S-05	HCV Negative	Plasma		Negative		CORE	88.8	179
HCVGT20S-06	HCV Type 6a	Plasma		Type 6	a	EDUCATIONAL	27.9	179
HCVGT20S-07	HCV Type 5a	Plasma		Type 5	a	EDUCATIONAL	66.5	179
HCVGT20S-08	HCV Type 3a	Plasma		Type 3	a	CORE	64.2	179

[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] **Genotype:** The assigned Genotype of the pathogen.

[3] **Subtype:** The assigned Subtype of the pathogen.

[4] **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.

[5] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct result and the total number of datasets (n) reported for each panel member.

For further details please refer to the current participant manual.

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Individual Report	QCMD 2020 Hepatitis C virus Genotype EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

Your Summary Results (Core Samples)

EQA Assessment Group [1]   N/A

Core Panel Score [2]   -

Sample Code	Expected Genotype [6]	Expected Subtype [7]	Qualitative Result	Your reported Genotype[3]	Your reported Subtype [4]	Score [5]
HCVGT20S-01						-
HCVGT20S-03						-
HCVGT20S-04						-
HCVGT20S-05						-
HCVGT20S-08						-

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

[2] **Core Panel Score:** An overall core panel score provided per challenge / distribution.

[3] **Your reported Genotype:** The result you reported for this dataset.

[4] **Your reported Subtype:** The result you reported for this dataset.

[5] **Score:** Your scores are based on the assigned type and or subtype/lineage of each panel member and are provided for all individual panel members.

[6] **Expected Genotype:** The expected Genotype for the pathogen.

[7] **Expected Subtype:** Expected Subtype for the pathogen.

For details of the scoring system please refer to the section below.

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| Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

Scoring system for genotype EQA data

A score is provided for each panel member, but only scores on "CORE" panel members are used to determine your "Core Panel Score".

The scores awarded for genotype EQA data were based on the sample genotype and the subtype of each sample. The scoring system is represented in the following table, where 0 is 'highly satisfactory' and 3 is 'highly unsatisfactory'. Colour has been included as an extra visual aid.

Scoring system based on the assigned sample genotype and subtype:

Sample type	Participant result		Score
	Genotype		
Positive	Correct genotype	Correct subtype	0
	Correct genotype	Incorrect/Not submitted	1
	Incorrect genotype	Correct subtype	3
	Incorrect genotype	Incorrect/Not submitted	3
Negative	Negative/Not submitted	Negative/Not submitted	0
	Genotype submitted	Submitted/Not submitted	3
	Not Submitted	Subtype submitted	3

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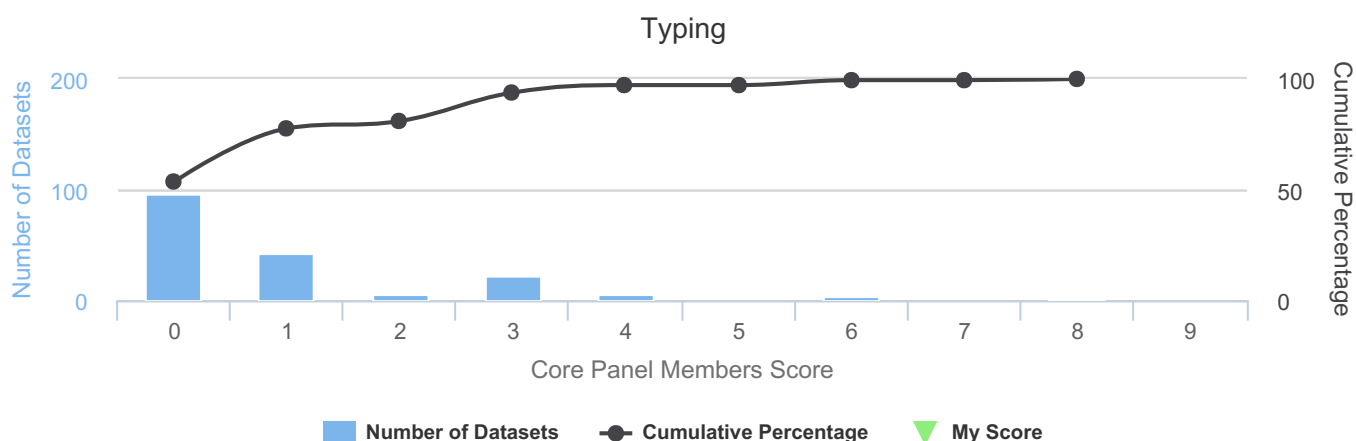
Core Panel Member Score Breakdown - Typing: This figure gives you a breakdown of the scores for all datasets returned within this EQA challenge/ distribution independent of the EQA assessment group. Panel scores are generated from only those panel members that are defined as "CORE".

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Individual Report	QCMD 2020 Hepatitis C virus Genotype EQA Programme					QCMD Quality Control for Molecular Diagnostics
Catalogue Code: QAV034117	**Ref Code:** HCVGT20	**Challenge:** S	**Analysis Type:** Typing	**Dataset:** 0	**Report UID:** 0/0/2596	**Laboratory**

Further Programme Details

Number of Participants	191
Number of Countries	37
Number of Respondents	169
Number of Datasets Submitted	179

Your Summary Results (Educational Samples)

Sample Code	Expected Genotype [6]	Expected Subtype [7]	Qualitative Result	Your reported Genotype [1]	Your reported Subtype [2]	Score [3]
HCVGT20S-02						-
HCVGT20S-06						-
HCVGT20S-07						-

[1] **Your reported Genotype:** The result you reported for this dataset.

[2] **Your reported Subtype:** The result you reported for this dataset.

[3] **Score:** Your scores are based on the assigned type and or subtype/lineage of each panel member and are provided for all individual panel members.

[6] **Expected Genotype:** The expected Genotype for the pathogen.

[7] **Expected Subtype:** Expected Subtype for the pathogen.

For details of the scoring system please refer to the section below.

EQA Programme Aims

To assess the proficiency of laboratories in the correct genotyping of hepatitis C virus (HCV) using molecular methods.

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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Individual Report	QCMD 2020 Hepatitis C virus Genotype EQA Programme					
Catalogue Code: QAV034117	**Ref Code:** HCVGT20	**Challenge:** S	**Analysis Type:** Typing	**Dataset:** 0	**Report UID:** 0/0/2596	**Laboratory**

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

Additional Core Sample Information: Individual Panel Member Analysis

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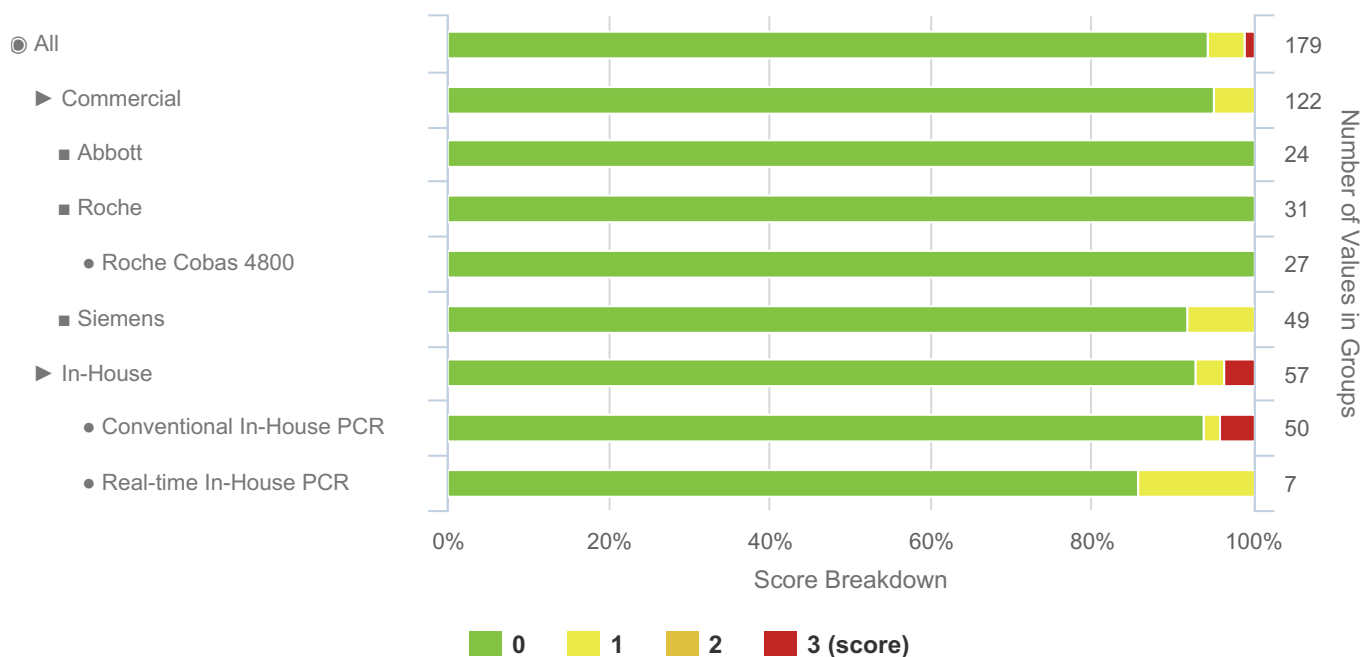
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or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

A breakdown of the type /subtype / lineage results reported by participants on each of the panel members within this EQA challenge / distribution is provided below.

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| Catalogue Code: QAV034117 | Ref Code: HCVGT20 | Challenge: S | Analysis Type: Typing | Dataset: 0 | Report UID: 0/0/2596 | Laboratory |

HCVGT20S-01

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-01	HCV Type 1a	Plasma		Type 1	a	CORE	94.4	179

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

HCVGT20S-03

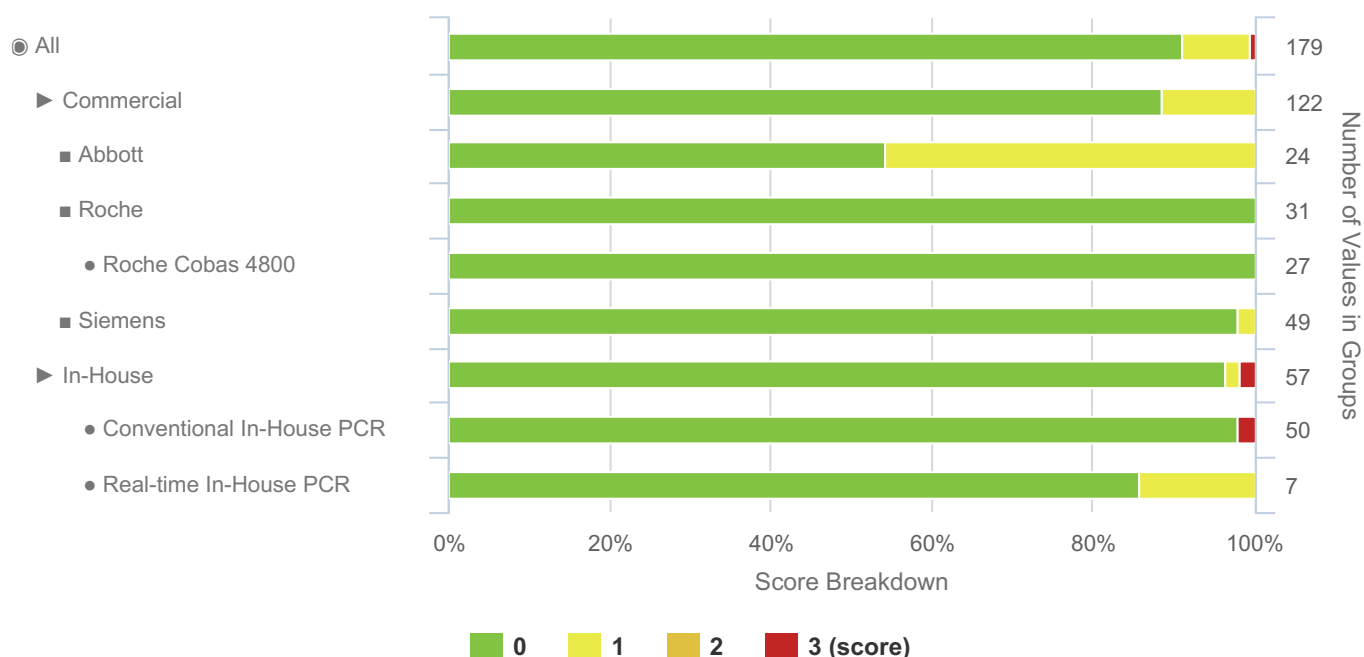| Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-03	HCV Type 1b	Plasma	D1	Type 1	b	CORE	93.3	179

Score Breakdown

0   1   2   3 (score)

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

HCVGT20S-04

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-04	HCV Type 1b	Plasma	D1	Type 1	b	CORE	91.1	179

Score Breakdown chart:

Group	Number of Values in Groups
◉ All	179
► Commercial	122
■ Abbott	24
■ Roche	31
● Roche Cobas 4800	27
■ Siemens	49
► In-House	57
● Conventional In-House PCR	50
● Real-time In-House PCR	7

Legend: 0 (green) 1 (yellow) 2 (amber) 3 (score) (red)

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)
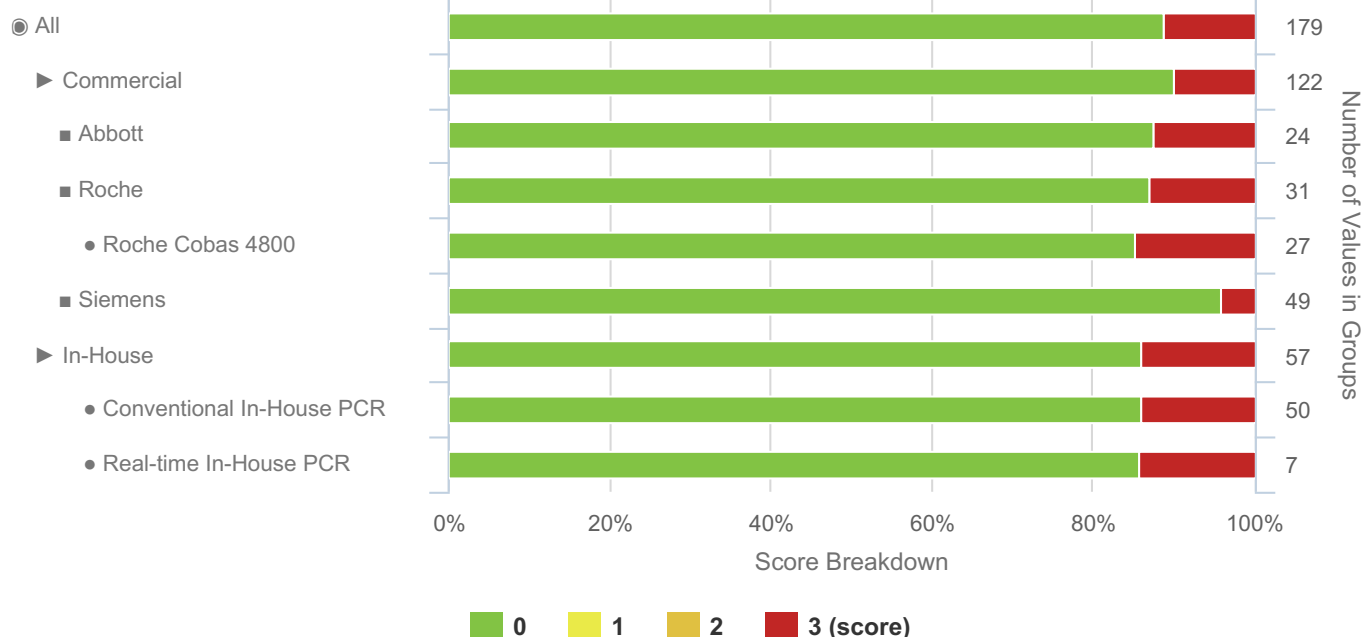
Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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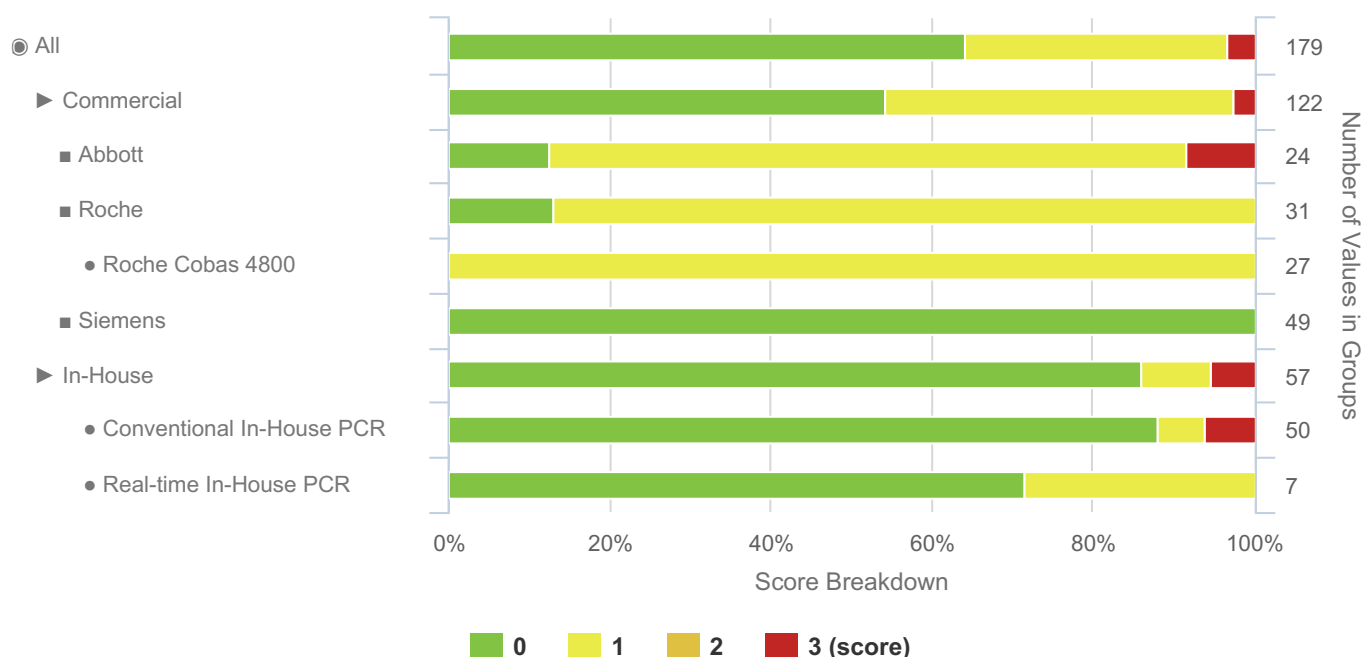| Catalogue Code: QAV034117 | Ref Code: HCVGT20 | Challenge: S | Analysis Type: Typing | Dataset: 0 | Report UID: 0/0/2596 | Laboratory |

HCVGT20S-05

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	(n)
HCVGT20S-05	HCV Negative	Plasma		Negative		CORE	88.8	179

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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HCVGT20S-08

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-08	HCV Type 3a	Plasma		Type 3	a	CORE	64.2	179

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

Additional Educational Samples Information: Individual Panel Member Analysis

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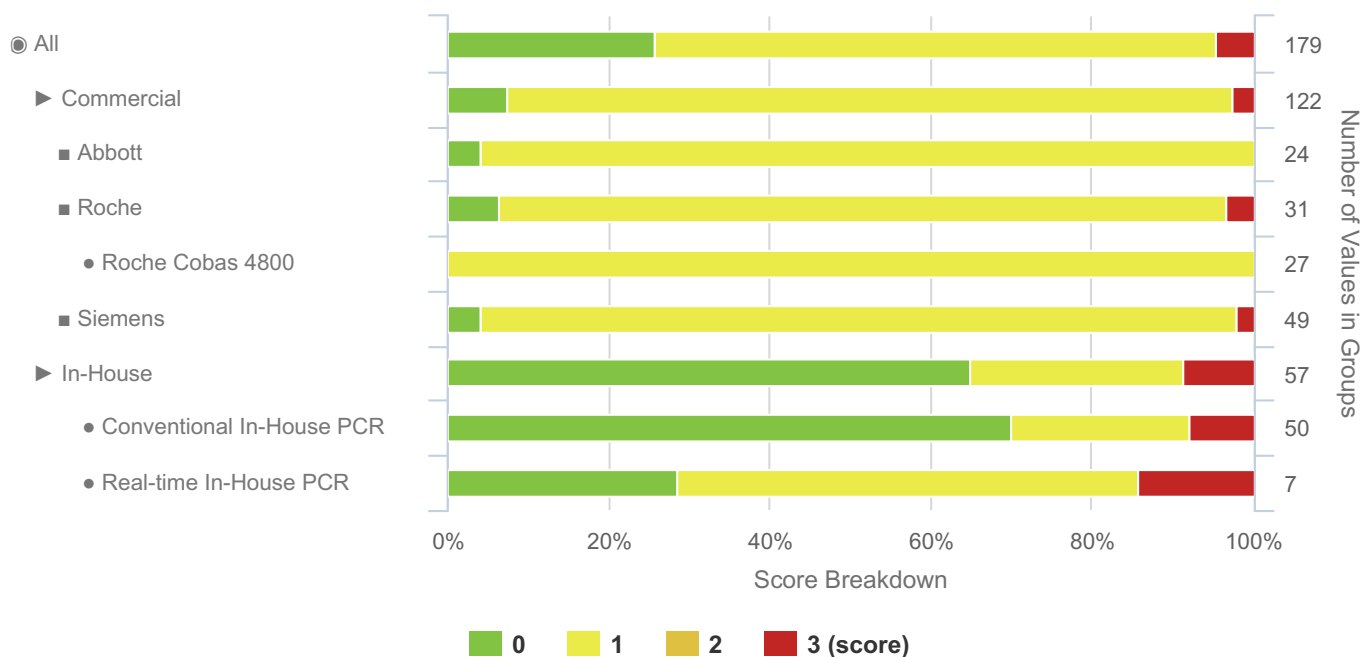
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or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

A breakdown of the type /subtype / lineage results reported by participants on each of the panel members within this EQA challenge / distribution is provided below.

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Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

HCVGT20S-02

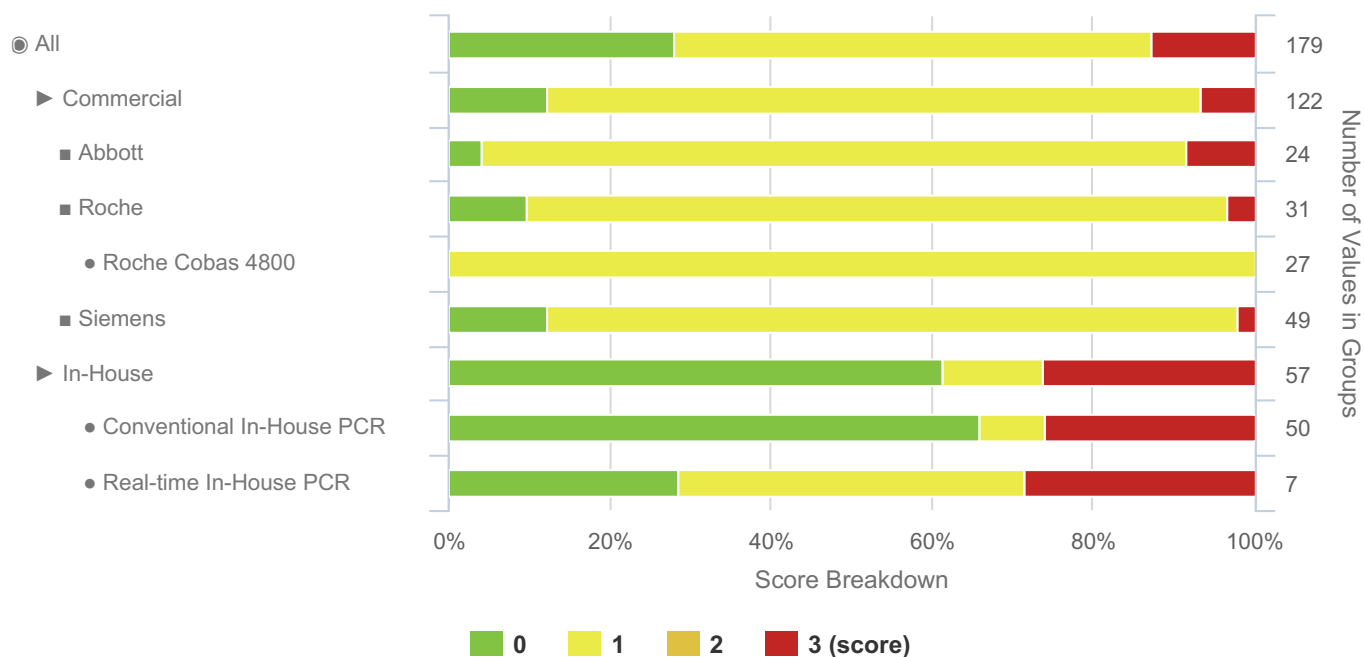| Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-02	HCV Type 4c	Plasma		Type 4	c	EDUCATIONAL	25.7	179

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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Catalogue Code: QAV034117	Ref Code: HCVGT20	Challenge: S	Analysis Type: Typing	Dataset: 0	Report UID: 0/0/2596	Laboratory

HCVGT20S-06

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-06	HCV Type 6a	Plasma		Type 6	a	EDUCATIONAL	27.9	179

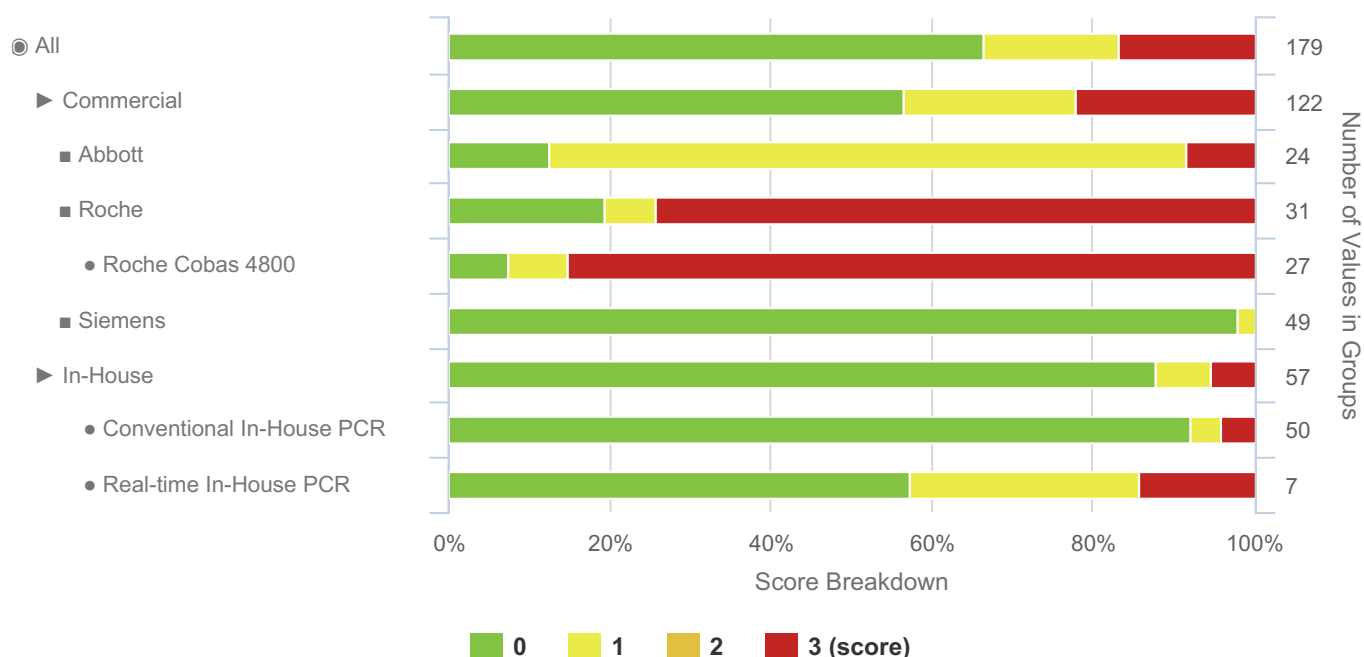Legend: 0 (green) | 1 (yellow) | 2 (amber) | 3 (score) (red)

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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HCVGT20S-07

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Genotype [2]	Subtype [3]	Sample Status [4]	Percentage Correct (All) [5]	
							(%)	*(n)*
HCVGT20S-07	HCV Type 5a	Plasma		Type 5	a	EDUCATIONAL	66.5	179

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica AMPLIQUALITY (n=2), ABL (n=1), ABL - ABL DeepChek (n=1), Anatolia Geneworks (n=4), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=4), GenMark Dx (n=1), GenMark Dx - GenMark DX eSensor (n=1), Genome Diagnostics (n=1), Genome Diagnostics - Geno-Sens (n=1), InterLabService (n=1), InterLabService - InterLabService AmpliSens (n=1), NLM (n=2), NLM - NLM Genotyping Test (n=2), Roche - Roche Cobas TaqMan (n=2), Roche - Roche PCR Reagents (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Vela Diagnostics (n=4), Vela Diagnostics - Vela Dx Sentosa (n=4)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=24), Siemens - Siemens Versant (n=49)

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