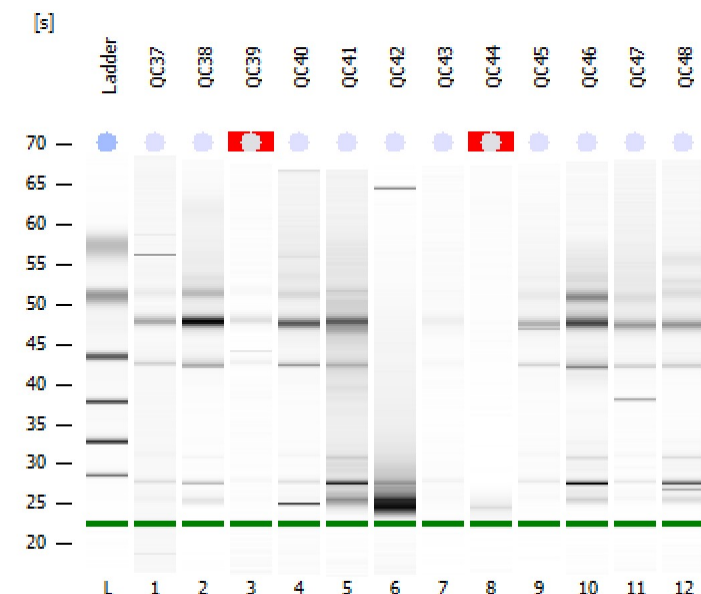


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE72903103
Serial#: DE72903103

Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy

Assay Class: Eukaryote Total RNA Nano

Version: 2.6

Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

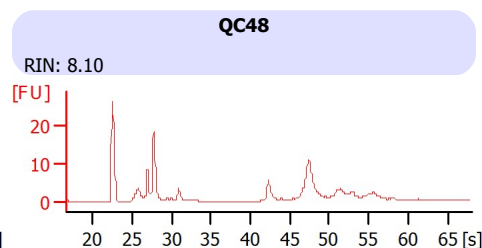
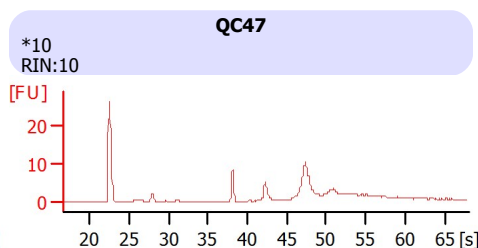
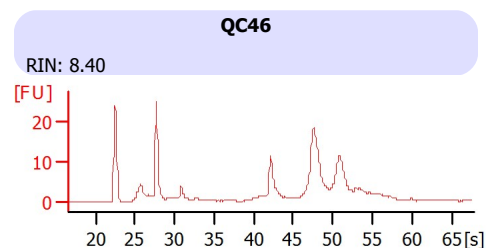
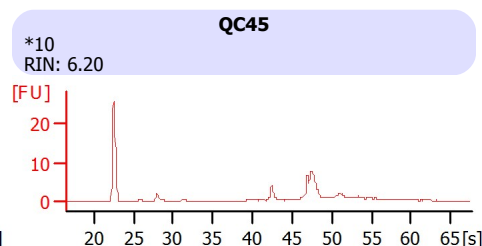
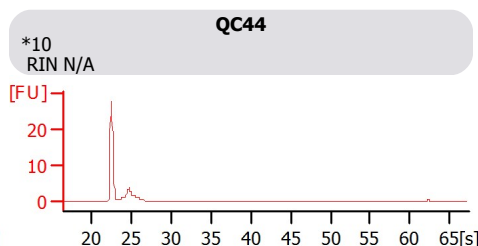
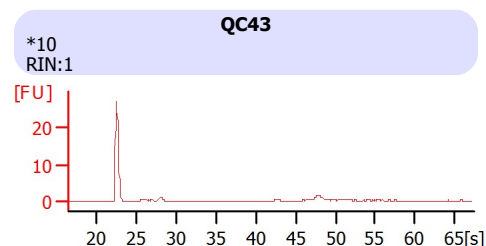
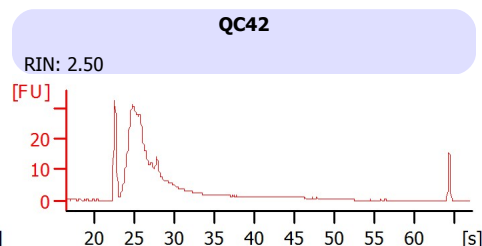
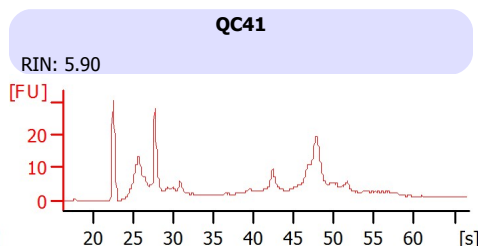
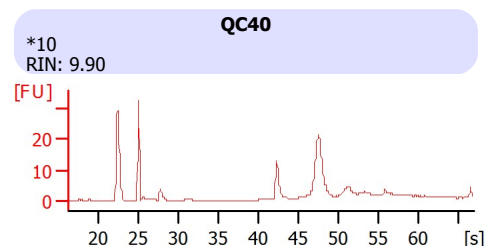
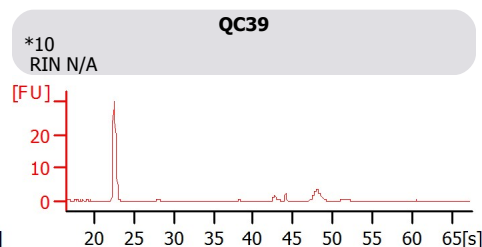
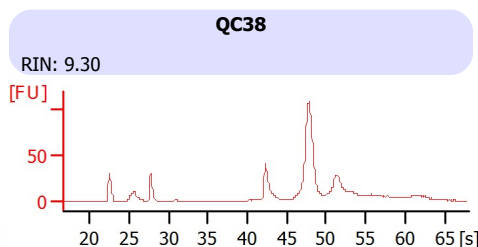
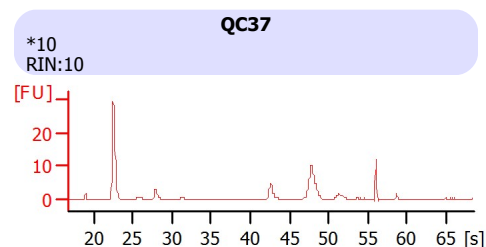
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments: Calla Telzrow



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Sta tus	Result Label	Result Color
QC37	*10	✓	RIN:10	
QC38		✓	RIN: 9.30	
QC39	*10	✓	RIN N/A	
QC40	*10	✓	RIN: 9.90	
QC41		✓	RIN: 5.90	
QC42		✓	RIN: 2.50	
QC43	*10	✓	RIN:1	
QC44	*10	✓	RIN N/A	
QC45	*10	✓	RIN: 6.20	
QC46		✓	RIN: 8.40	
QC47	*10	✓	RIN:10	
QC48		✓	RIN: 8.10	
Ladder		✓	All Other Samples	

Chip Lot #**Reagent Kit Lot #****Chip Comments :**

Calla Telzrow

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

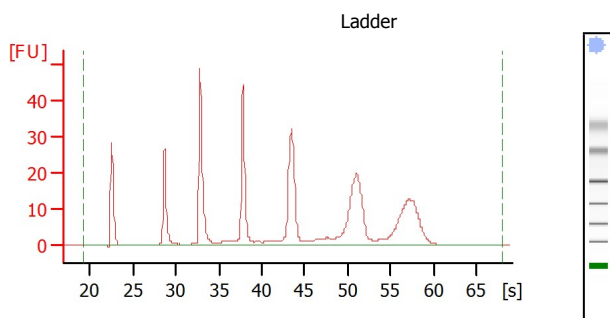
Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

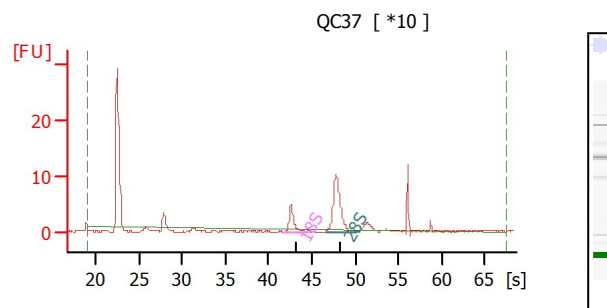
Created: 4/5/2018 3:16:46 PM
 Modified: 4/5/2018 4:09:41 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 404.8
 RNA Concentration: 150 ng/μl
 Result Flagging Color:
 Result Flagging Label: All Other Samples

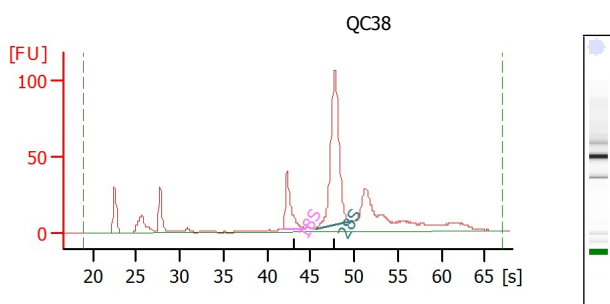


Overall Results for sample 1 : QC37

RNA Area: 32.2
 RNA Concentration: 12 ng/μl
 rRNA Ratio [28s / 18s]: 3.1
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 1 : QC37

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.72	44.41	6.8	21.1
28S	46.57	50.18	20.7	64.4

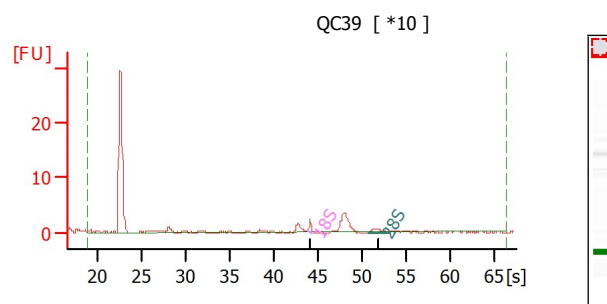


Overall Results for sample 2 : QC38

RNA Area: 658.8
 RNA Concentration: 244 ng/μl
 rRNA Ratio [28s / 18s]: 3.9
 RNA Integrity Number (RIN): 9.3 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 9.30

Fragment table for sample 2 : QC38

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.74	44.42	60.5	9.2
28S	45.53	49.71	236.5	35.9



Overall Results for sample 3 : QC39

RNA Area: 22.3
 RNA Concentration: 8 ng/μl
 rRNA Ratio [28s / 18s]: 1.1
 RNA Integrity Number (RIN): N/A (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN N/A

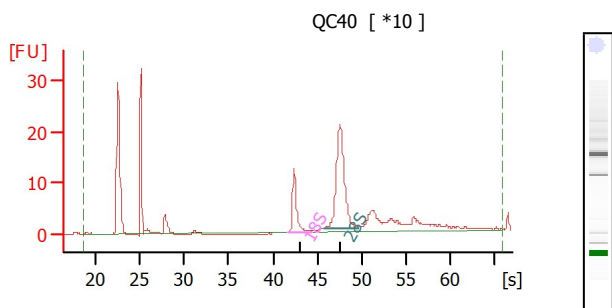
Fragment table for sample 3 : QC39

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	43.75	44.37	1.4	6.3
28S	50.78	53.09	1.6	7.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
 Modified: 4/5/2018 4:09:41 PM

Electropherogram Summary Continued ...

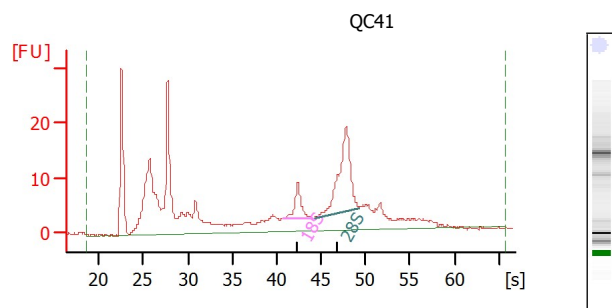


Overall Results for sample 4 : QC40

RNA Area: 140.7
 RNA Concentration: 52 ng/μl
 rRNA Ratio [28s / 18s]: 3.2
 RNA Integrity Number (RIN): 9.9 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 9.90

Fragment table for sample 4 : QC40

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.75	44.38	14.1	10.0
28S	45.76	49.63	45.1	32.0

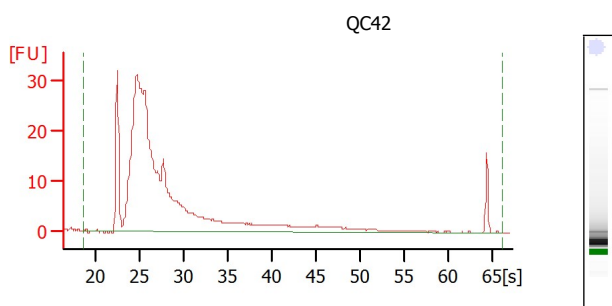


Overall Results for sample 5 : QC41

RNA Area: 368.8
 RNA Concentration: 137 ng/μl
 rRNA Ratio [28s / 18s]: 3.7
 RNA Integrity Number (RIN): 5.9 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN: 5.90

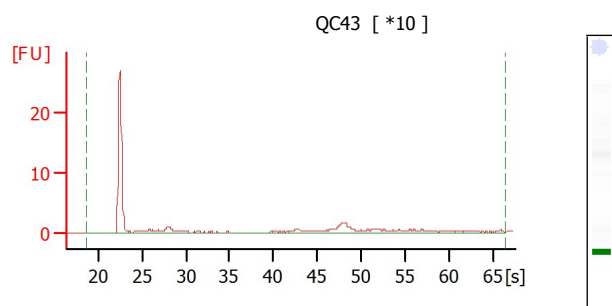
Fragment table for sample 5 : QC41

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.76	44.14	12.7	3.4
28S	44.24	49.29	46.9	12.7



Overall Results for sample 6 : QC42

RNA Area: 469.8
 RNA Concentration: 174 ng/μl
 rRNA Ratio [28s / 18s]: 0.0
 RNA Integrity Number (RIN): 2.5 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 2.50

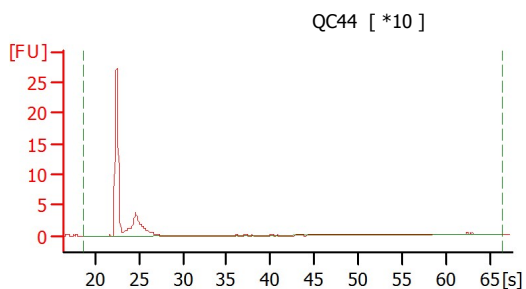


Overall Results for sample 7 : QC43

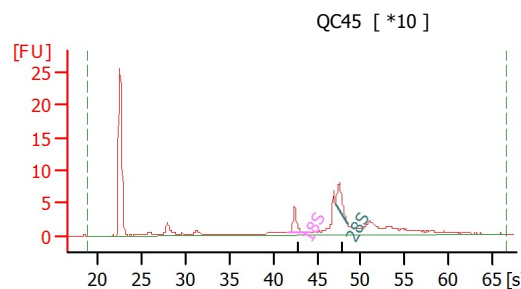
RNA Area: 30.0
 RNA Concentration: 11 ng/μl
 rRNA Ratio [28s / 18s]: 0.0
 RNA Integrity Number (RIN): 1 (B.02.08)
 Result Flagging Color:
 Result Flagging Label: RIN: 1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : QC44**

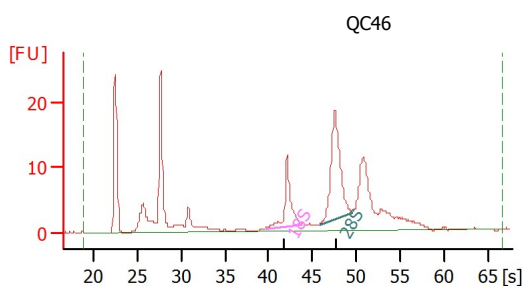
RNA Area: 24.3
RNA Concentration: 9 ng/μl
rRNA Ratio [28s / 18s]: 0.0
RNA Integrity Number (RIN): N/A (B.02.08)
Result Flagging Color:
Result Flagging Label: RIN N/A

**Overall Results for sample 9 : QC45**

RNA Area: 72.6
RNA Concentration: 27 ng/μl
rRNA Ratio [28s / 18s]: 1.2
RNA Integrity Number (RIN): 6.2 (B.02.08)
Result Flagging Color:
Result Flagging Label: RIN: 6.20

Fragment table for sample 9 : QC45

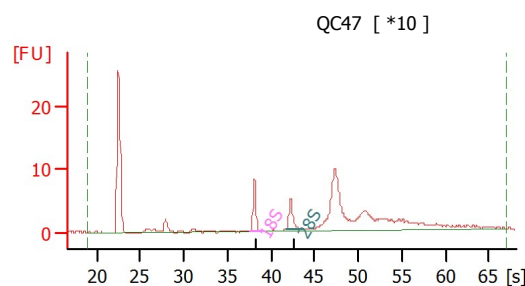
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.67	44.08	5.0	6.9
28S	47.08	48.52	6.2	8.5

**Overall Results for sample 10 : QC46**

RNA Area: 215.8
RNA Concentration: 80 ng/μl
rRNA Ratio [28s / 18s]: 2.3
RNA Integrity Number (RIN): 8.4 (B.02.08)
Result Flagging Color:
Result Flagging Label: RIN: 8.40

Fragment table for sample 10 : QC46

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.63	43.79	18.6	8.6
28S	45.82	49.55	42.5	19.7

**Overall Results for sample 11 : QC47**

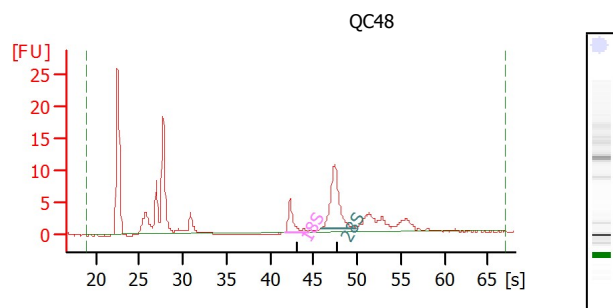
RNA Area: 85.4
RNA Concentration: 32 ng/μl
rRNA Ratio [28s / 18s]: 0.7
RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 10

Fragment table for sample 11 : QC47

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.56	39.22	8.0	9.3
28S	41.70	43.79	6.0	7.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : QC48**

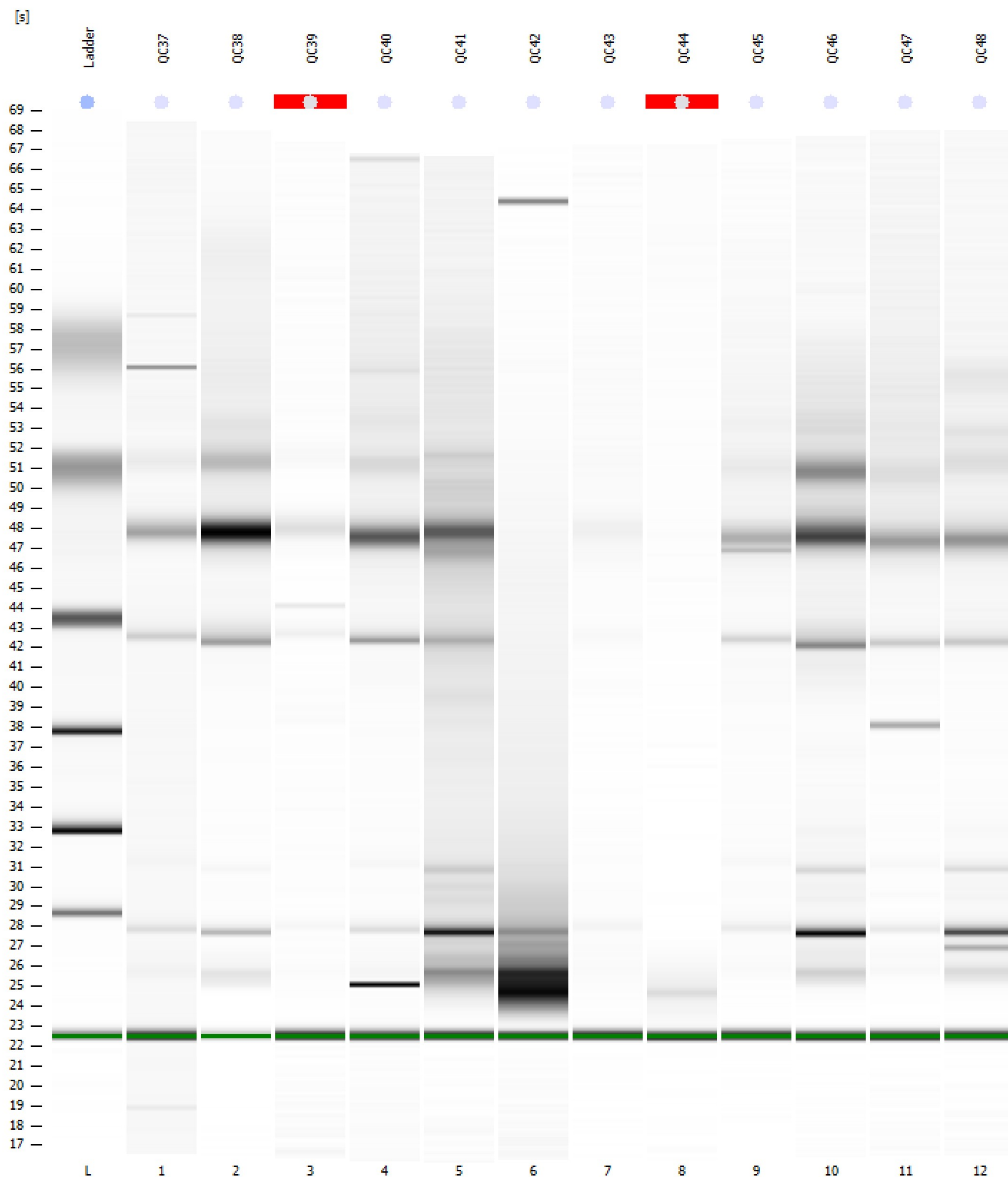
RNA Area: 121.5
RNA Concentration: 45 ng/μl
rRNA Ratio [28s / 18s]: 3.1
RNA Integrity Number (RIN): 8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 8.10

Fragment table for sample 12 : QC48

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.65	44.37	7.7	6.3
28S	45.92	49.76	23.6	19.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

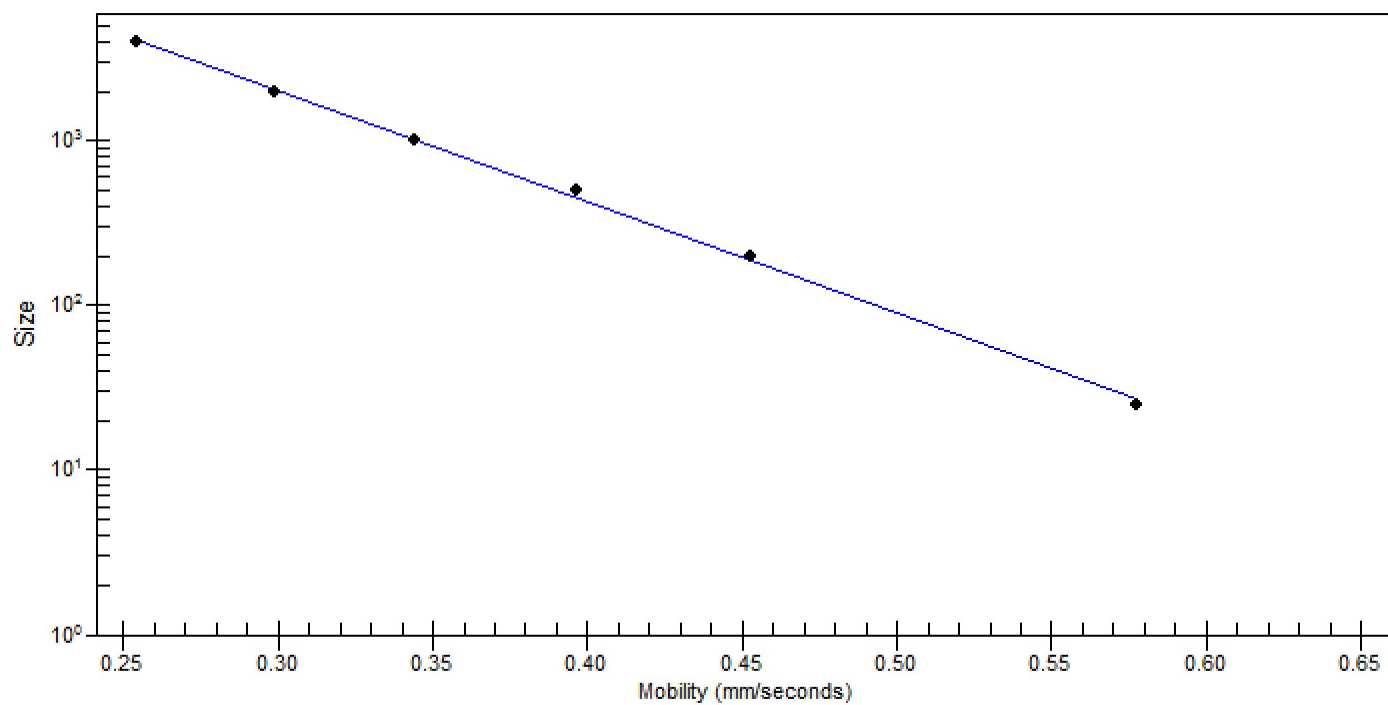
Gel Image

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad

Created: 4/5/2018 3:16:46 PM
Modified: 4/5/2018 4:09:41 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano Created: 4/5/2018 3:16:46 PM
 Data Path: C:\...r\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad Modified: 4/5/2018 4:09:41 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 4 (Number of wells acquired: 13)		Instrument	Run		4/5/2018 3:39:49 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Run started on port 4 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\4996_s17804_hsh2_2018-04-05_15-16-47.xad)		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Product Number : G2939A		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Name :		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Vendor : Agilent Technologies		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Serial# : DE72903103		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Firmware : C.01.069		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight
Cartridge : Electrode		Instrument	Run		4/5/2018 3:16:52 PM	(GMT --04:00) Eastern Standard Time	cgtuser	GenePixRight