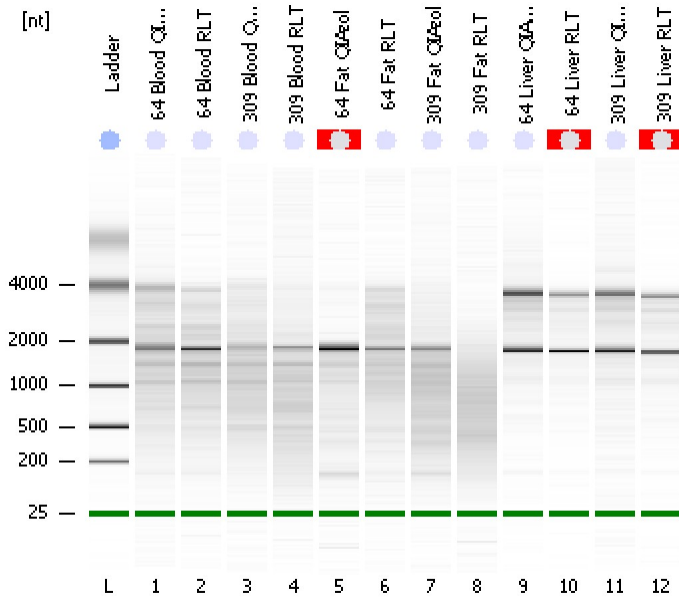


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)

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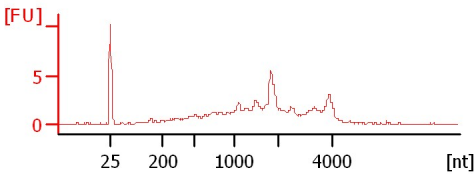
Chip Information:

Chip Lot #:

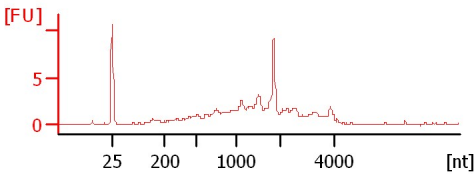
Reagent Kit Lot #:

Chip Comments:

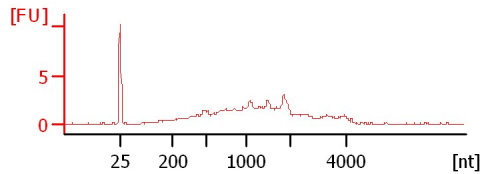
64 Blood QIAzol
RIN: 6.30



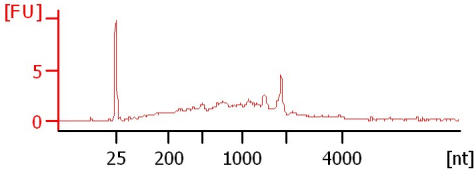
64 Blood RLT
RIN: 5.80



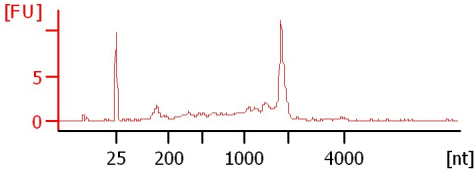
309 Blood QIAzol
RIN: 4.90



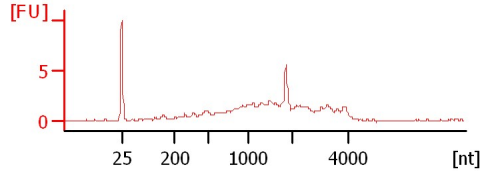
309 Blood RLT
RIN: 5.40



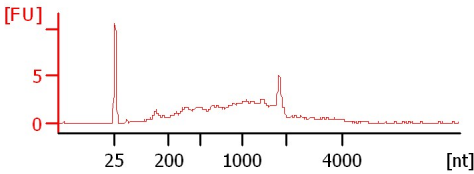
64 Fat QIAzol
RIN N/A



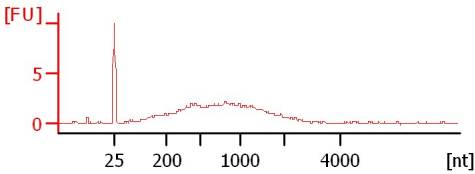
64 Fat RLT
RIN: 5.10



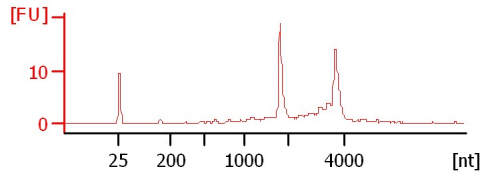
309 Fat QIAzol
RIN: 4.80



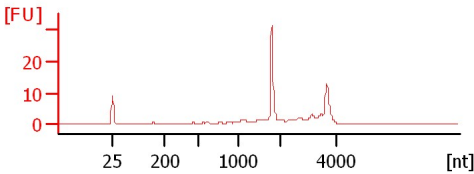
309 Fat RLT
RIN: 2.20



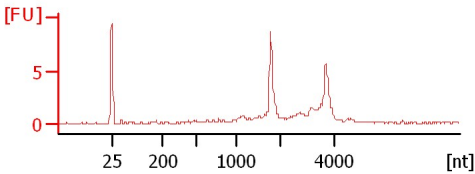
64 Liver QIAzol
RIN: 8.30



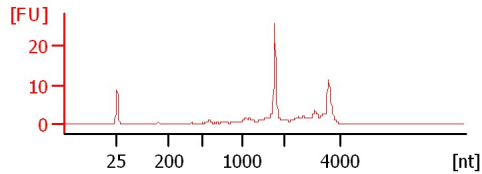
64 Liver RLT
RIN N/A



309 Liver QIAzol
RIN: 8.10



309 Liver RLT
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
64 Blood QIAzol		✓	RIN: 6.30	
64 Blood RLT		✓	RIN: 5.80	
309 Blood QIAzol		✓	RIN: 4.90	
309 Blood RLT		✓	RIN: 5.40	
64 Fat QIAzol		✓	RIN N/A	
64 Fat RLT		✓	RIN: 5.10	
309 Fat QIAzol		✓	RIN: 4.80	
309 Fat RLT		✓	RIN: 2.20	
64 Liver QIAzol		✓	RIN: 8.30	
64 Liver RLT		✓	RIN N/A	
309 Liver QIAzol		✓	RIN: 8.10	
309 Liver RLT		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

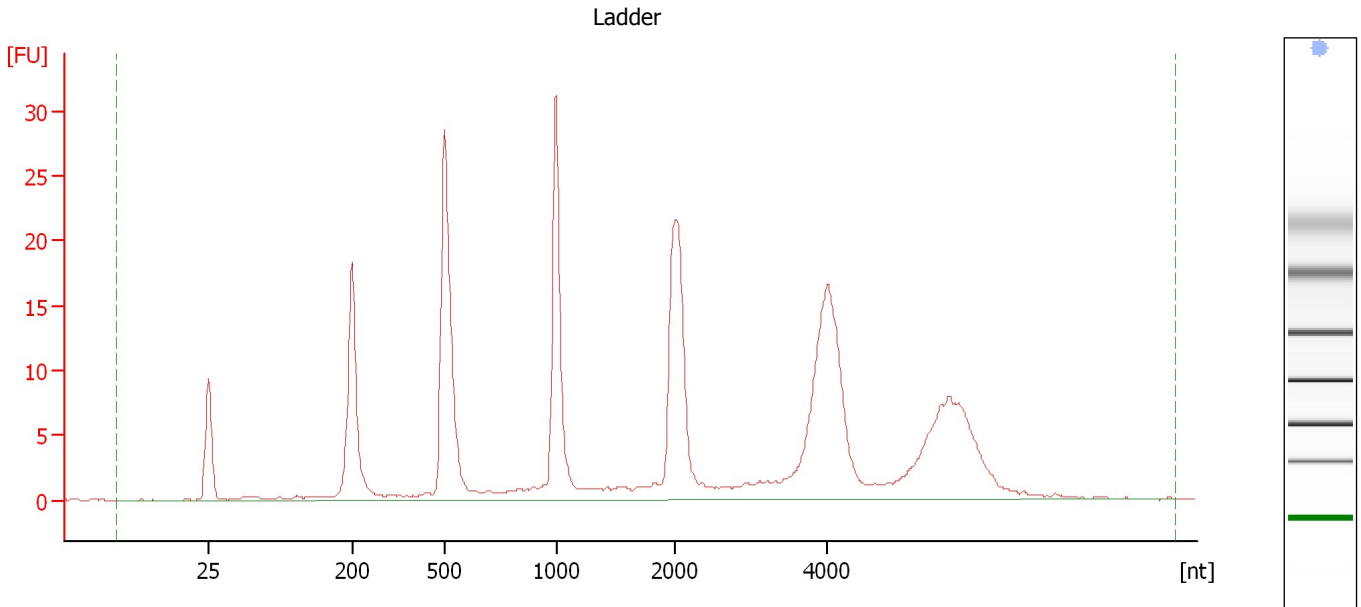
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary



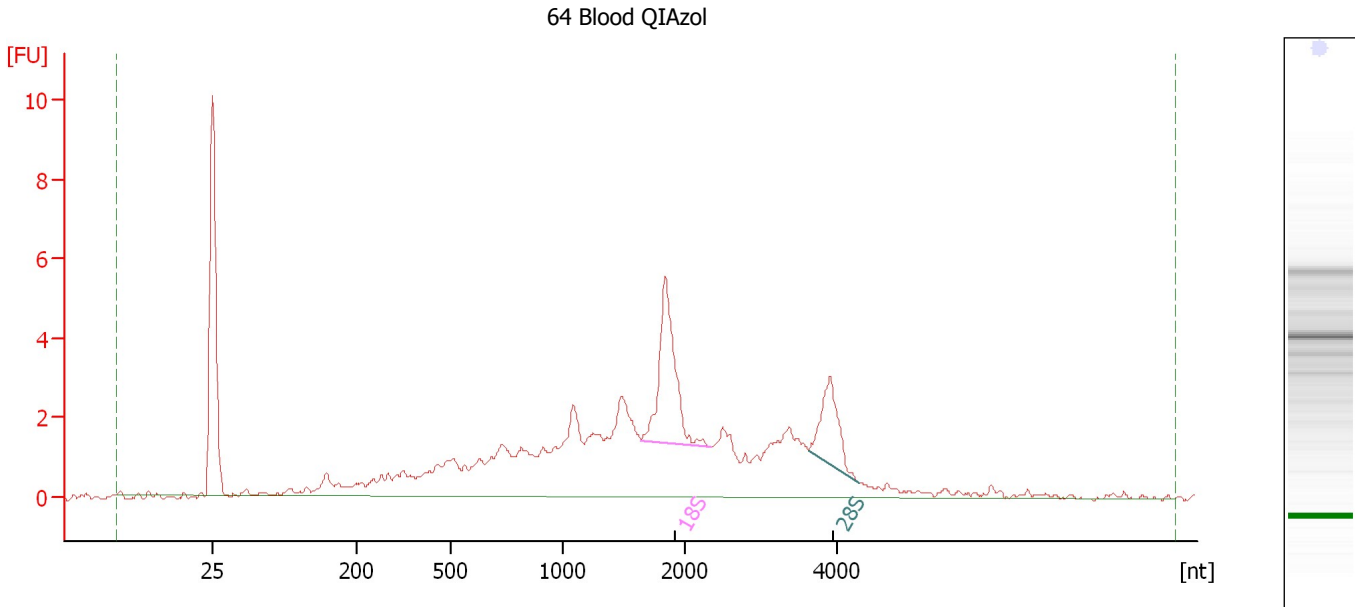
Overall Results for Ladder

RNA Area:	270.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
 Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 64 Blood QIAzol

RNA Area:	78.6	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	44 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.30

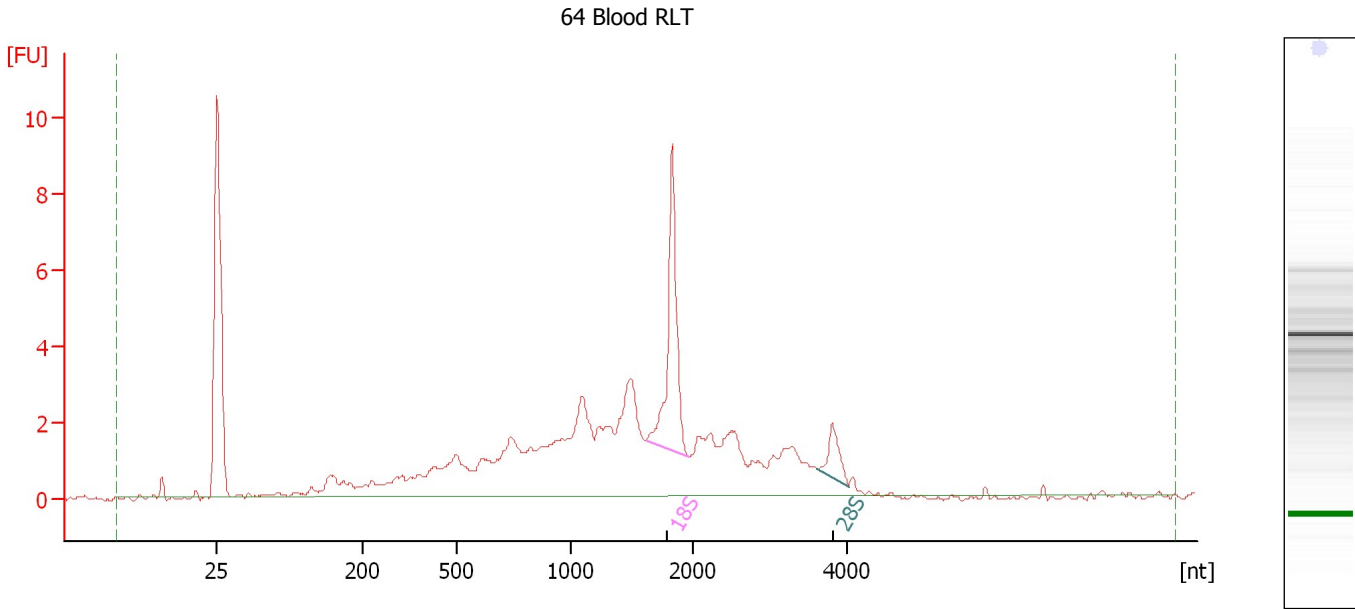
Fragment table for sample 1 : 64 Blood QIAzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,339	7.7	9.8
28S	3,624	4,281	3.8	4.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 64 Blood RLТ

RNA Area: 74.3 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 41 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 5.80

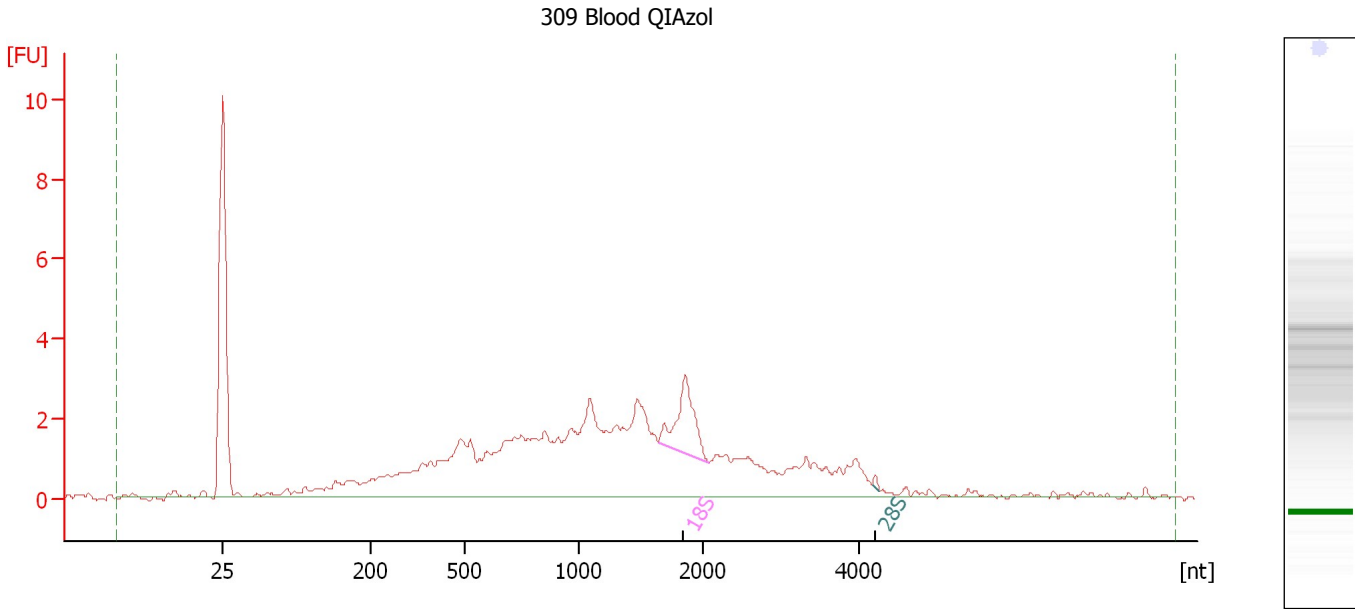
Fragment table for sample 2 : 64 Blood RLТ

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,970	8.0	10.8
28S	3,629	4,031	1.5	2.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 309 Blood QIAzol

RNA Area: 72.9 RNA Integrity Number (RIN): 4.9 (B.02.08)
RNA Concentration: 40 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 4.90

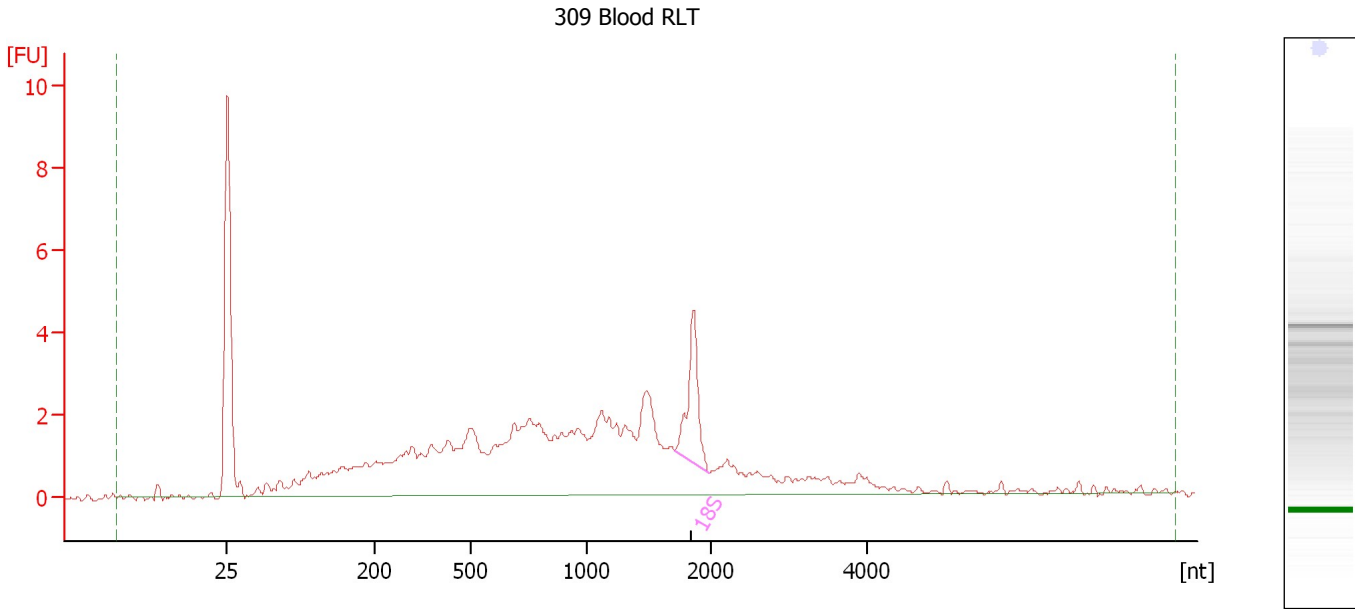
Fragment table for sample 3 : 309 Blood QIAzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	2,083	4.0	5.4
28S	4,180	4,276	0.1	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 309 Blood RL

RNA Area:	76.2	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	42 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.40

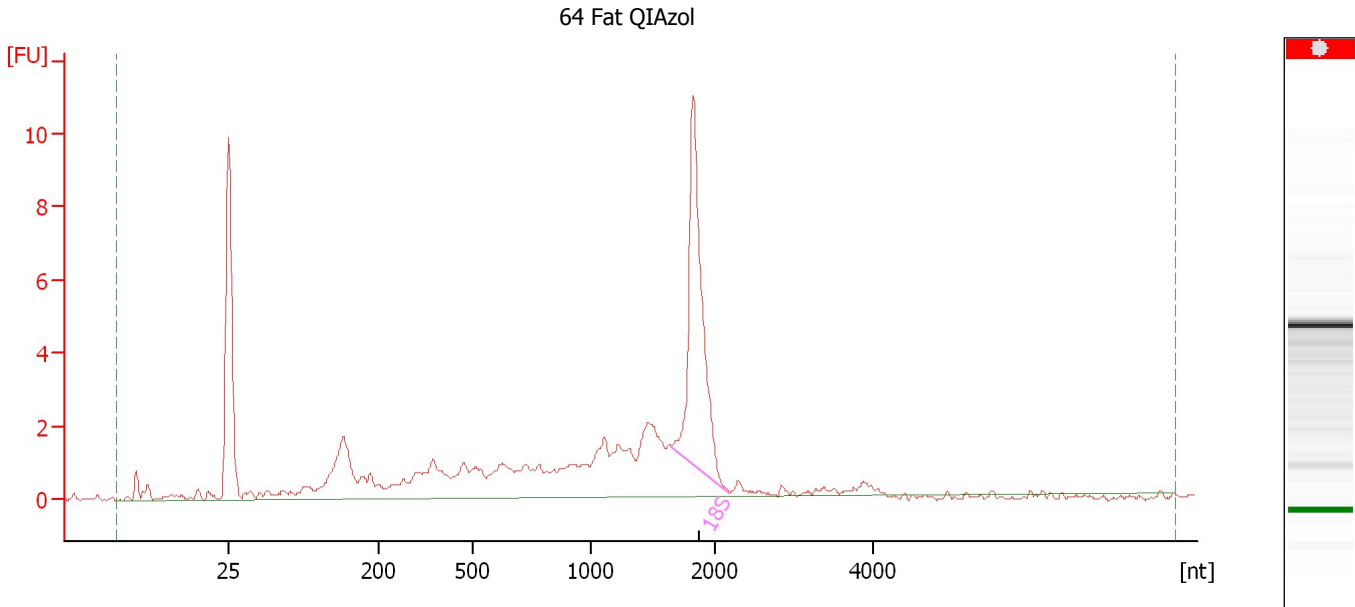
Fragment table for sample 4 : 309 Blood RL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,710	1,986	4.2	5.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
 Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 64 Fat QIAzol

RNA Area:	64.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

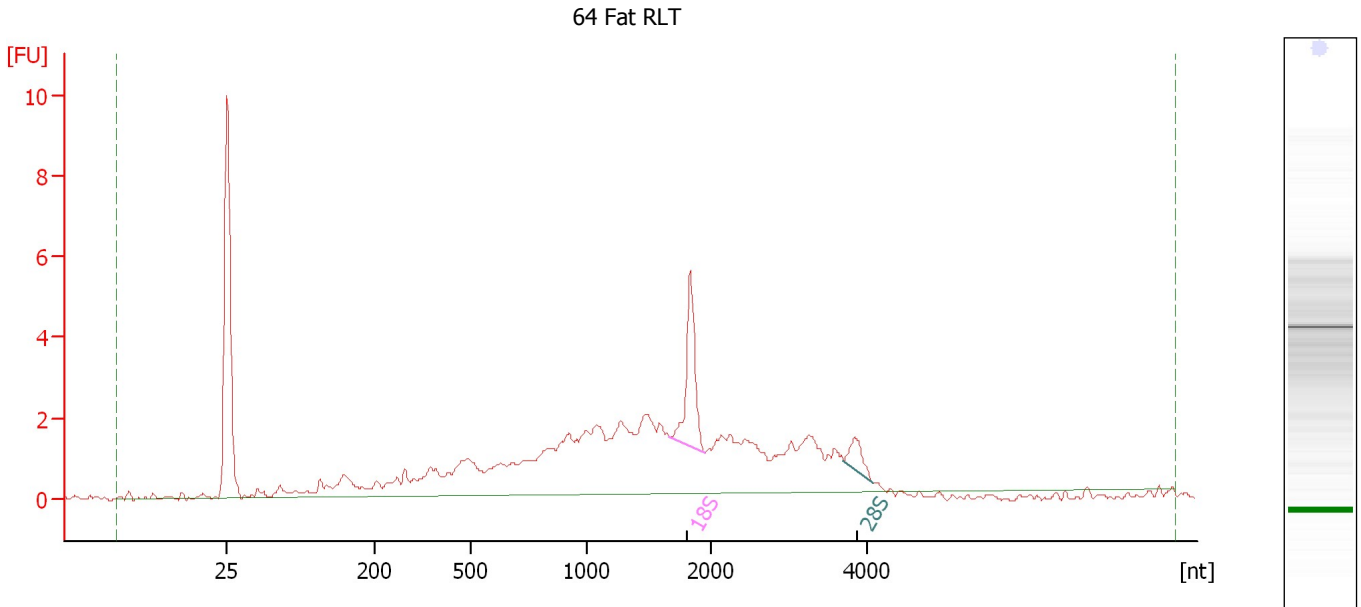
Fragment table for sample 5 : 64 Fat QIAzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	2,183	14.7	22.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
 Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 64 Fat RLT

RNA Area:	66.1	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 5.10

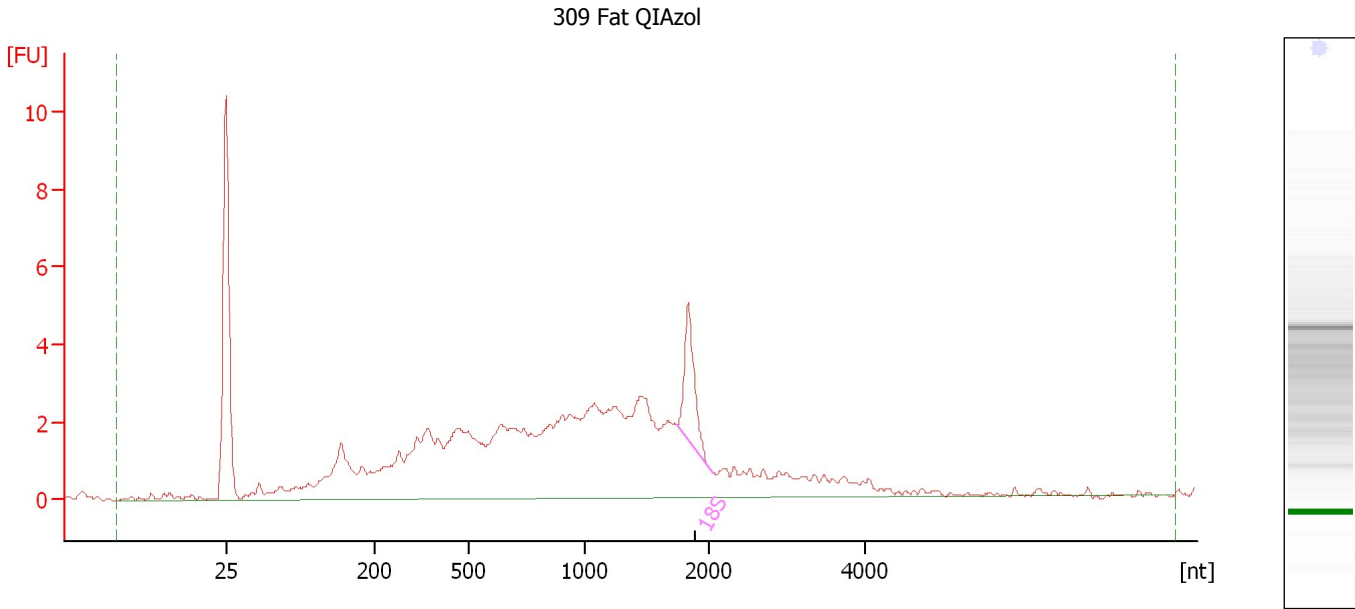
Fragment table for sample 6 : 64 Fat RLT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	1,951	4.2	6.3
28S	3,691	4,058	1.0	1.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 309 Fat QIAzol

RNA Area: 93.0 RNA Integrity Number (RIN): 4.8 (B.02.08)
RNA Concentration: 52 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 4.80

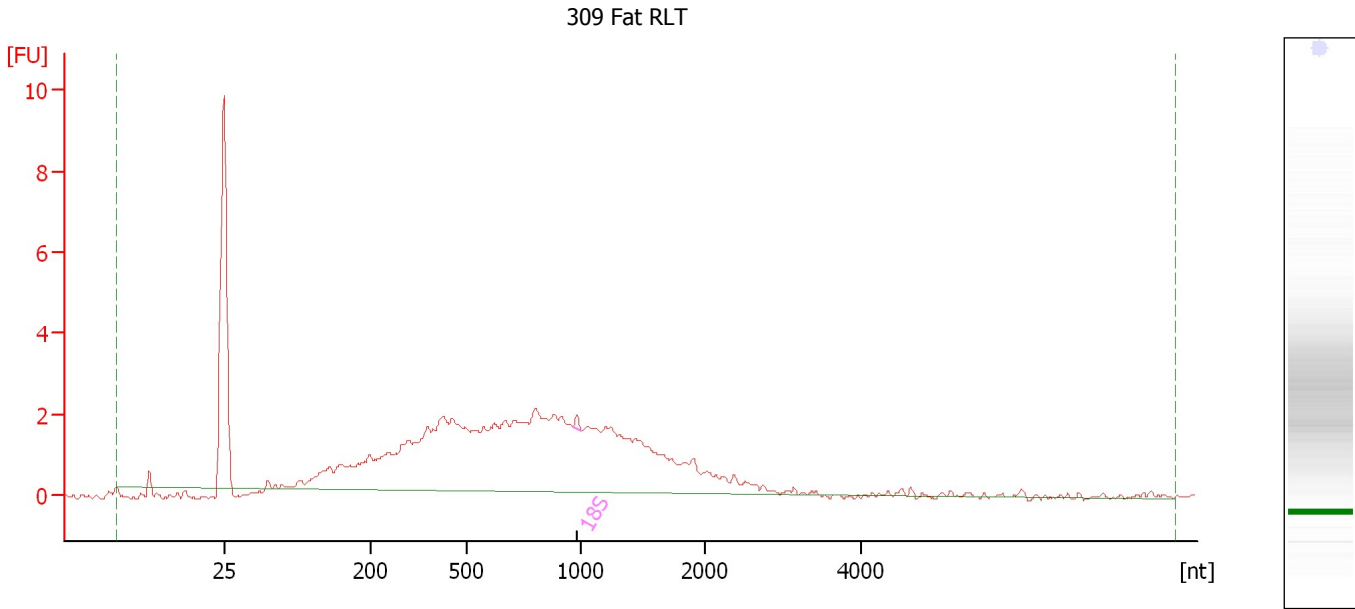
Fragment table for sample 7 : 309 Fat QIAzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,743	2,045	4.2	4.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 309 Fat RLT

RNA Area:	63.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	35 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

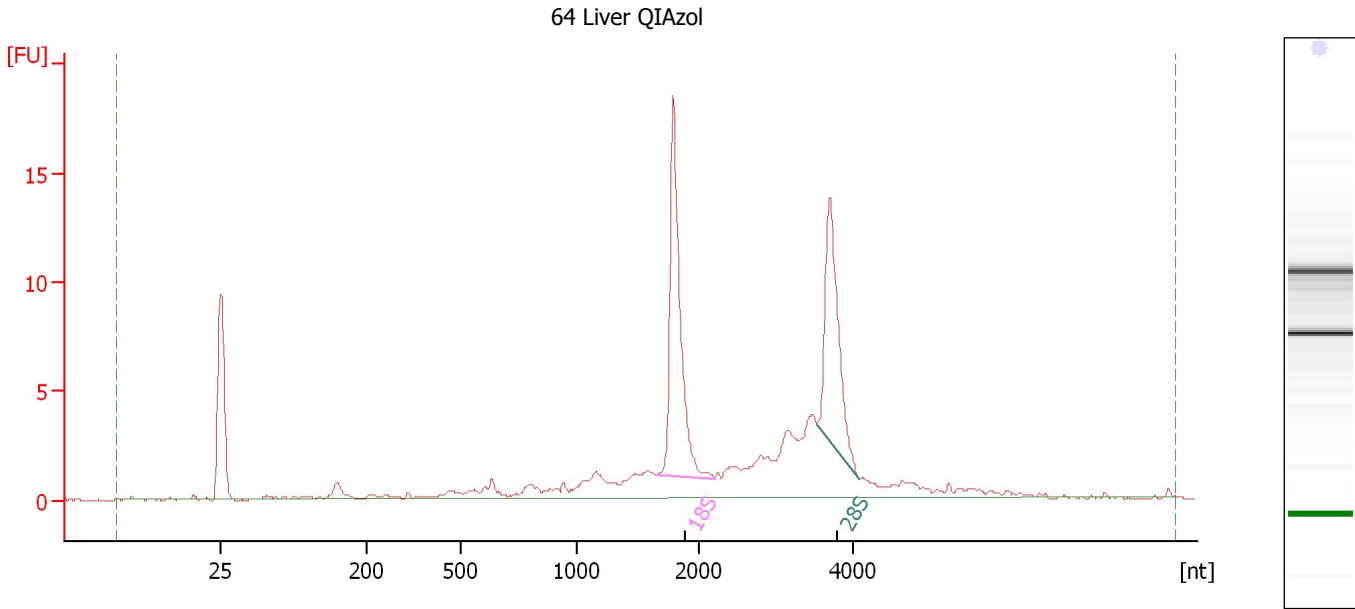
Fragment table for sample 8 : 309 Fat RLT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	960	1,003	0.2	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
 Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 64 Liver QIAzol

RNA Area:	89.6	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 8.30

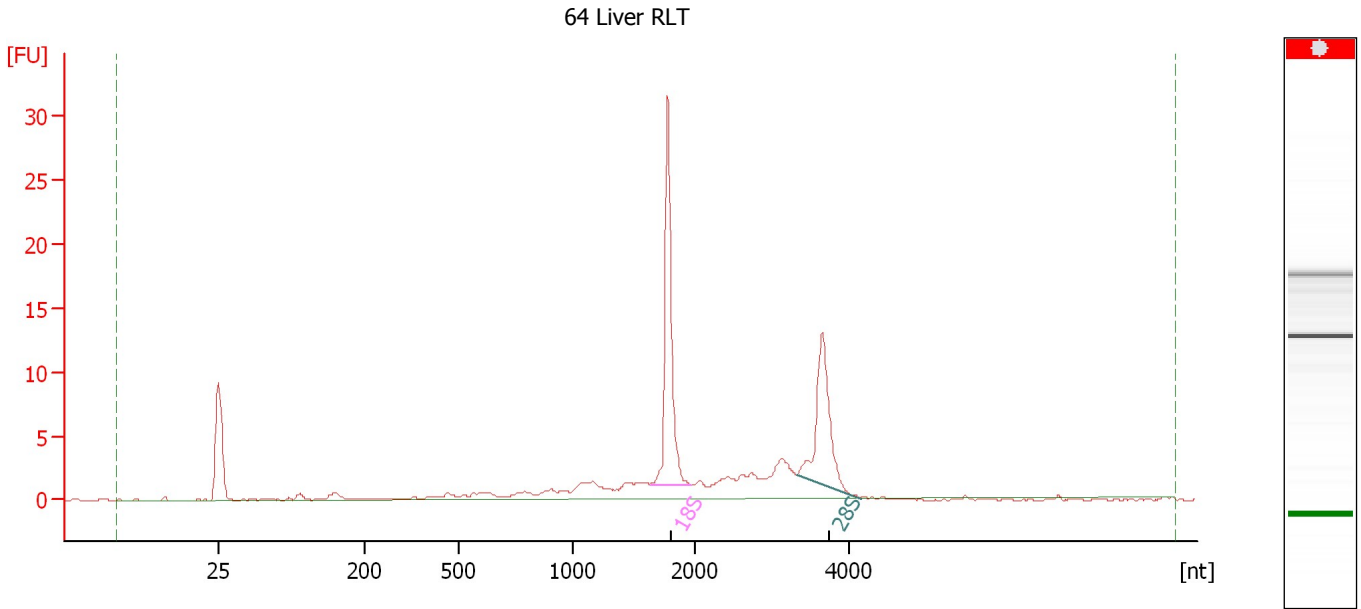
Fragment table for sample 9 : 64 Liver QIAzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	2,205	20.3	22.7
28S	3,526	4,063	15.1	16.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 64 Liver RLT

RNA Area:	90.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN N/A

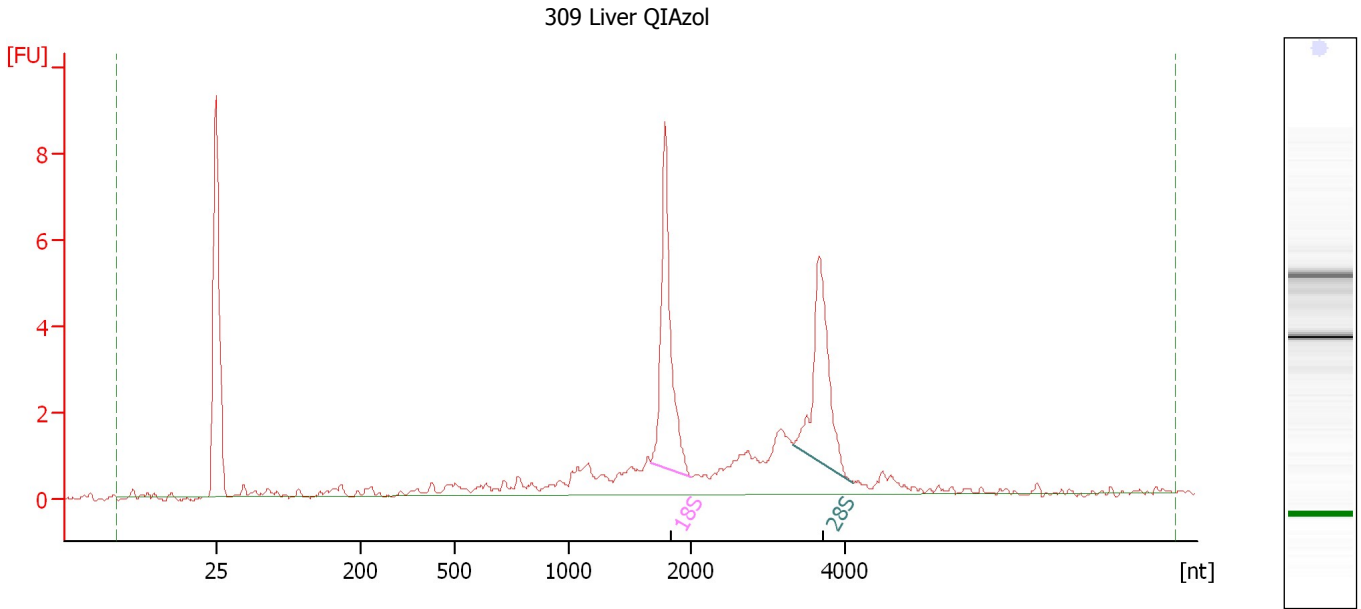
Fragment table for sample 10 : 64 Liver RLT

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,980	24.1	26.8
28S	3,323	4,152	15.8	17.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 309 Liver QIAzol

RNA Area: 44.6 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 25 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 8.10

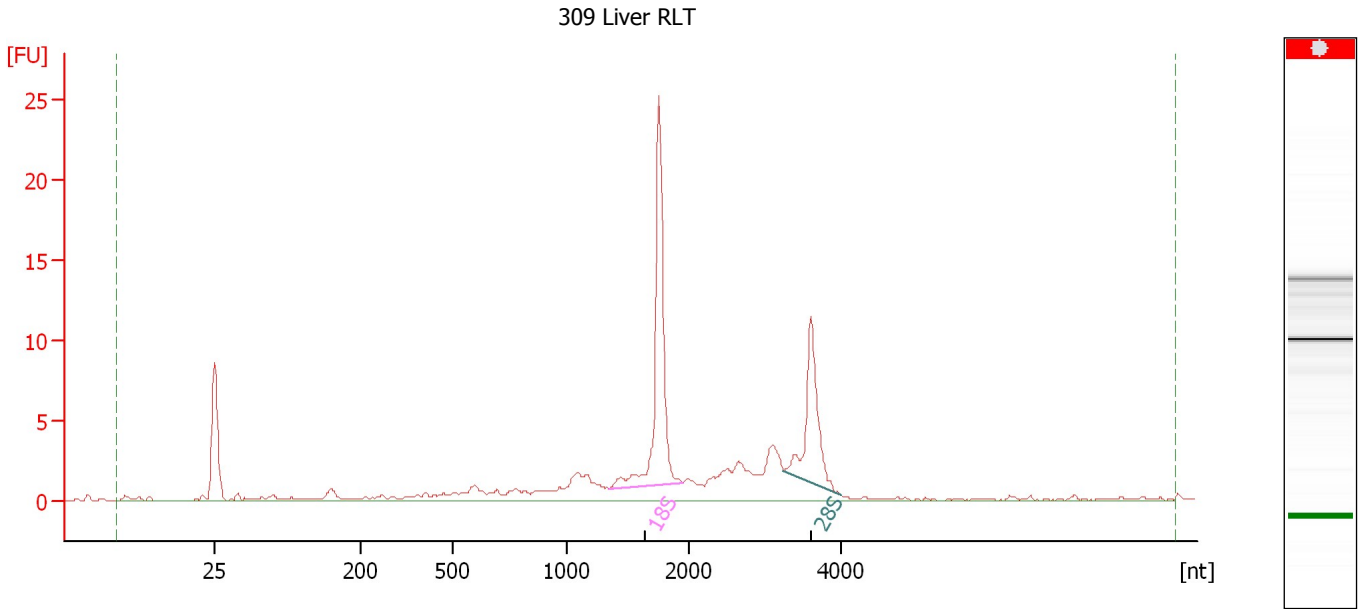
Fragment table for sample 11 : 309 Liver QIAzol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	2,007	8.9	19.9
28S	3,340	4,117	7.3	16.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 309 Liver RLt

RNA Area: 87.2 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 48 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN N/A

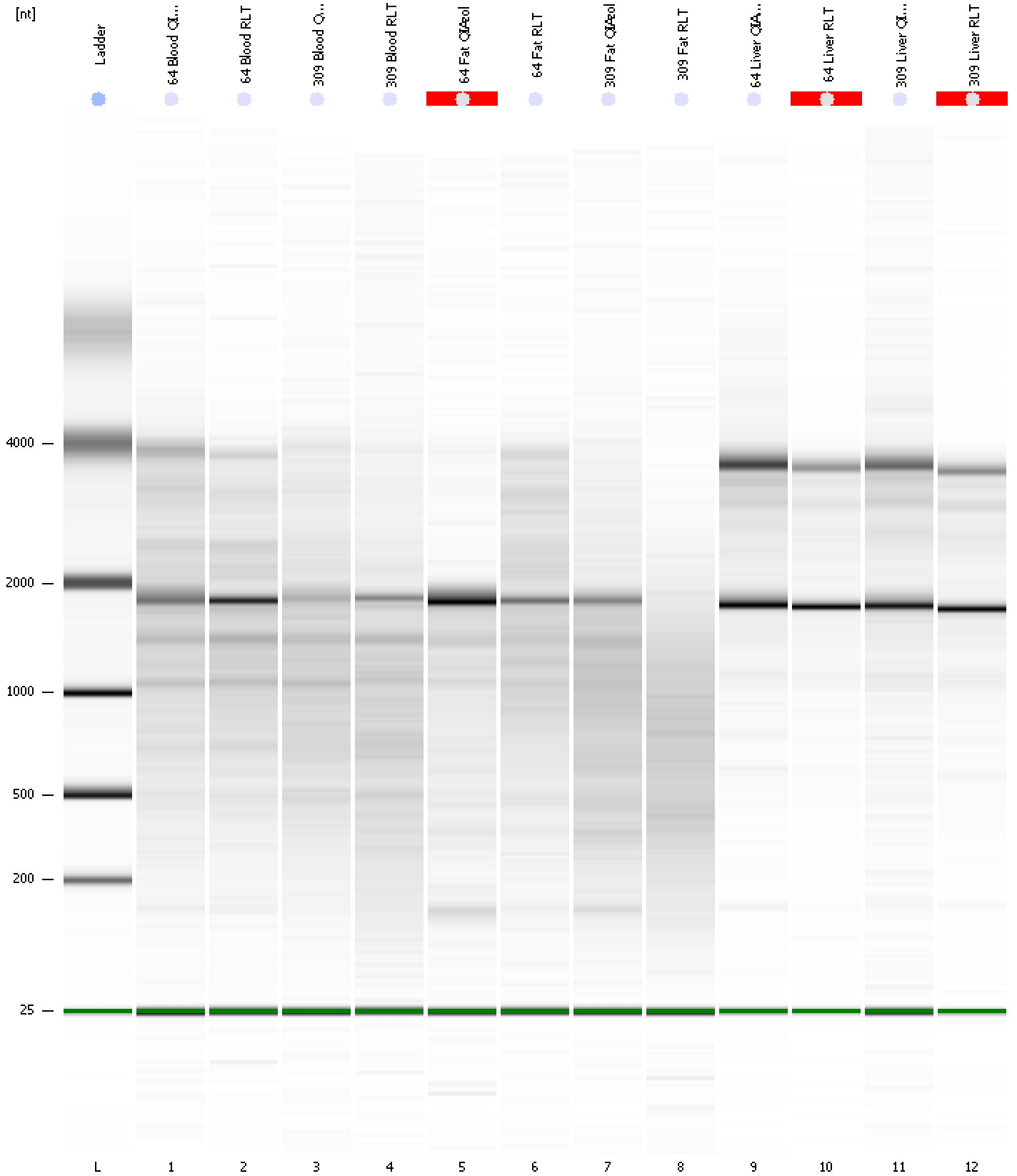
Fragment table for sample 12 : 309 Liver RLt

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,351	1,960	22.6	26.0
28S	3,244	3,995	12.6	14.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
Modified: 7/21/2014 4:28:01 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad

Created: 7/21/2014 4:04:07 PM
 Modified: 7/21/2014 4:28:01 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		7/21/2014 4:27:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-21\2014-07-21_002.xad)		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/21/2014 4:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1