

Assay Class: Plant RNA Nano
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2025-09-24\QC2298.xad

Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

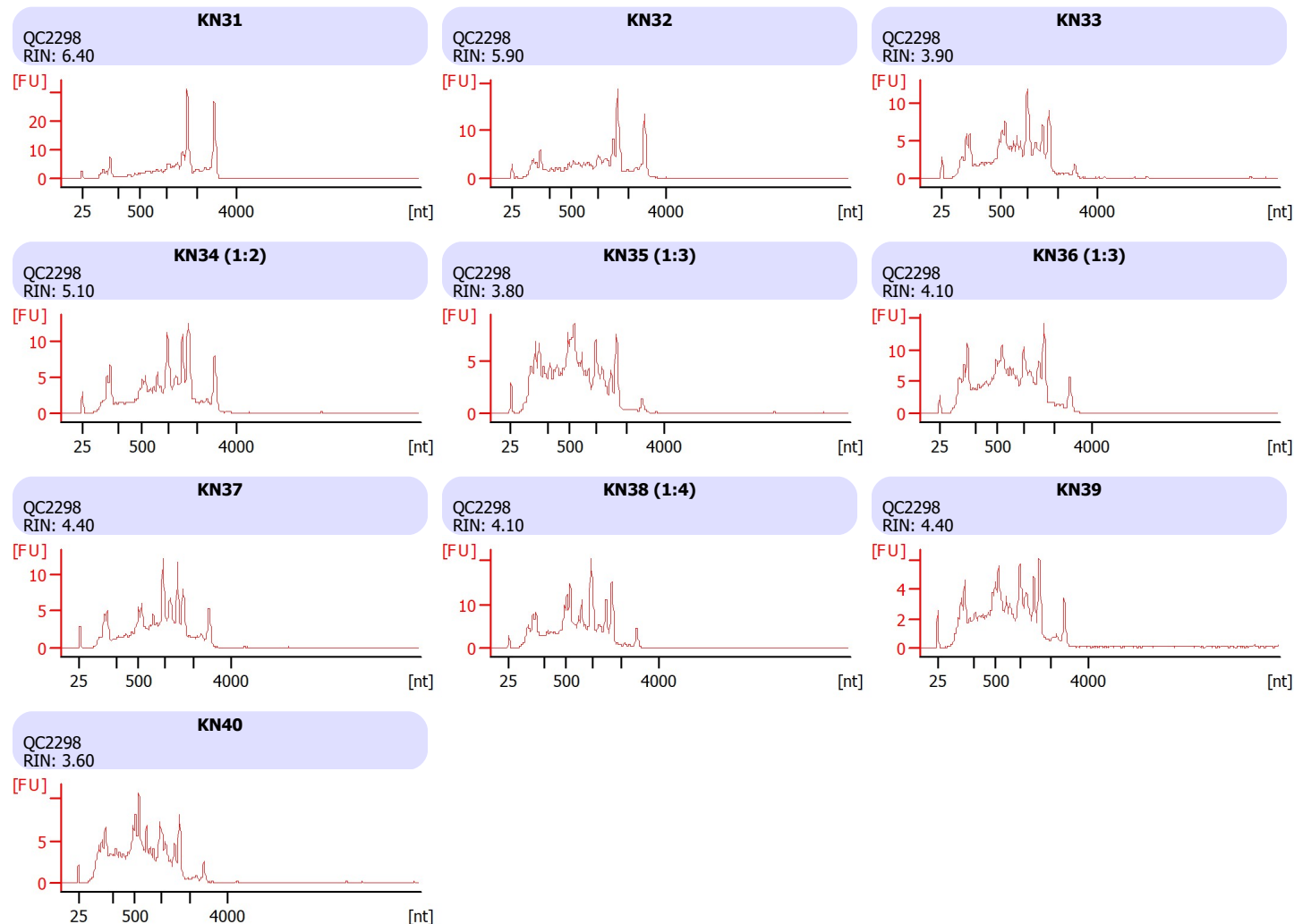
Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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Chip Information:

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



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Modified: 9/24/2025 12:42:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
KN31	QC2298	✓	RIN: 6.40	
KN32	QC2298	✓	RIN: 5.90	
KN33	QC2298	✓	RIN: 3.90	
KN34 (1:2)	QC2298	✓	RIN: 5.10	
KN35 (1:3)	QC2298	✓	RIN: 3.80	
KN36 (1:3)	QC2298	✓	RIN: 4.10	
KN37	QC2298	✓	RIN: 4.40	
KN38 (1:4)	QC2298	✓	RIN: 4.10	
KN39	QC2298	✓	RIN: 4.40	
KN40	QC2298	✓	RIN: 3.60	
Ladder		✓	All Other Samples	

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

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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] : 0.2
Area Threshold : 0.1
Width Threshold [s] : 0.2
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

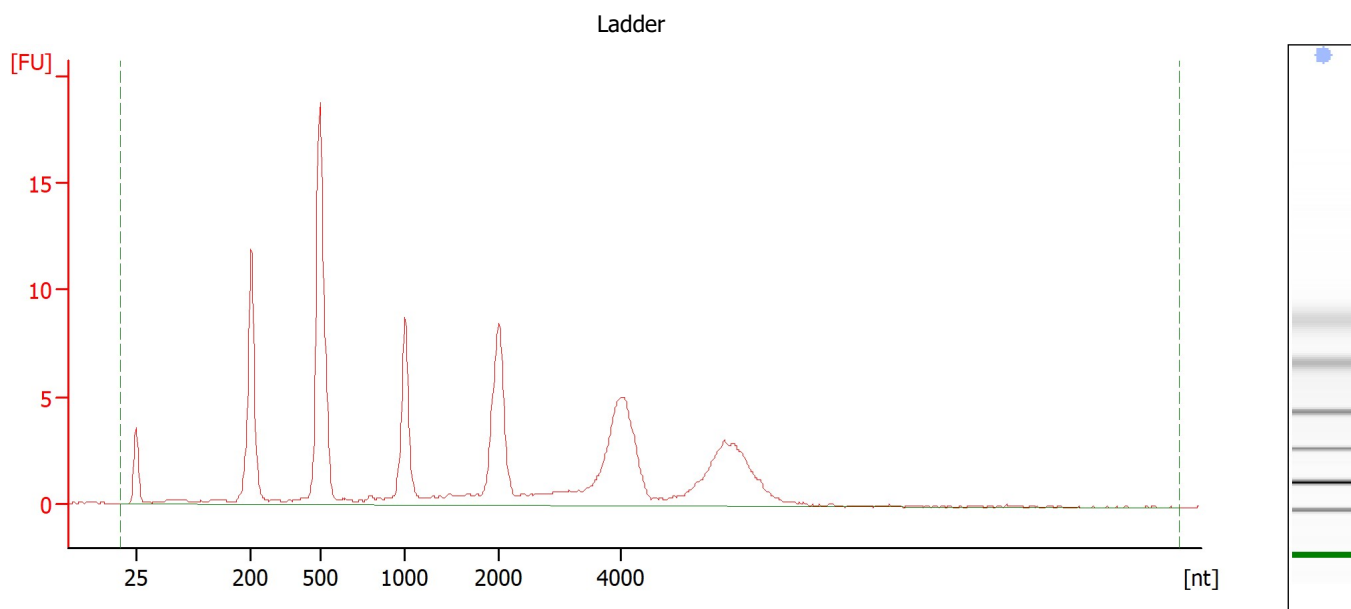
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

RNA Area: 119.5

Result Flagging Color:



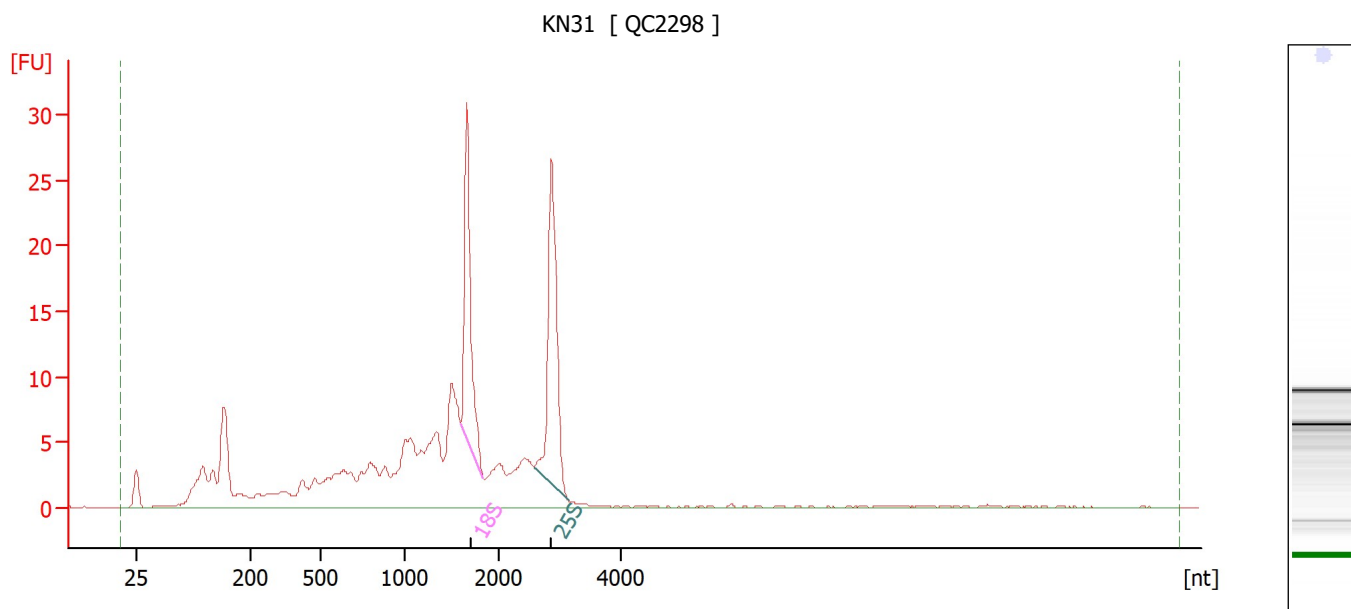
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

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Electropherogram Summary Continued ...**Overall Results for sample 1 : KN31**

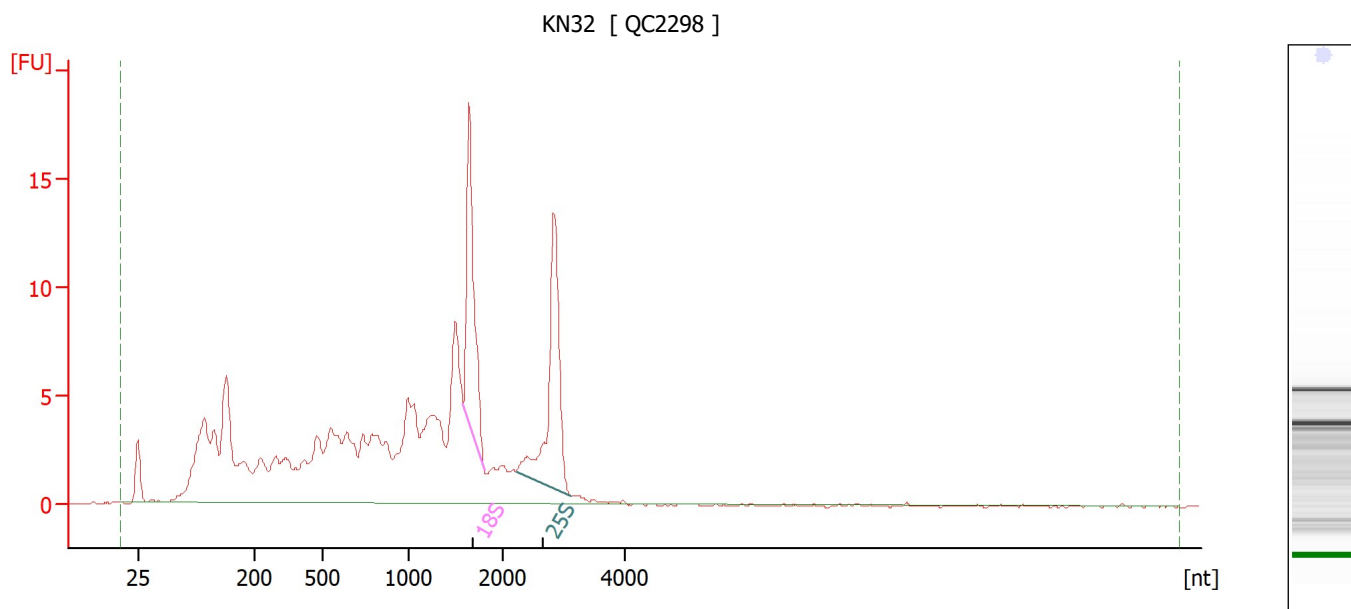
RNA Area:	221.4	RNA Integrity Number (RIN):	6.4 (B.02.10)
RNA Concentration:	278 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 6.40

Fragment table for sample 1 : KN31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,829	24.7	11.1
25S	2,584	3,150	28.3	12.8

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Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2025-09-24\QC2298.xad

Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : KN32**

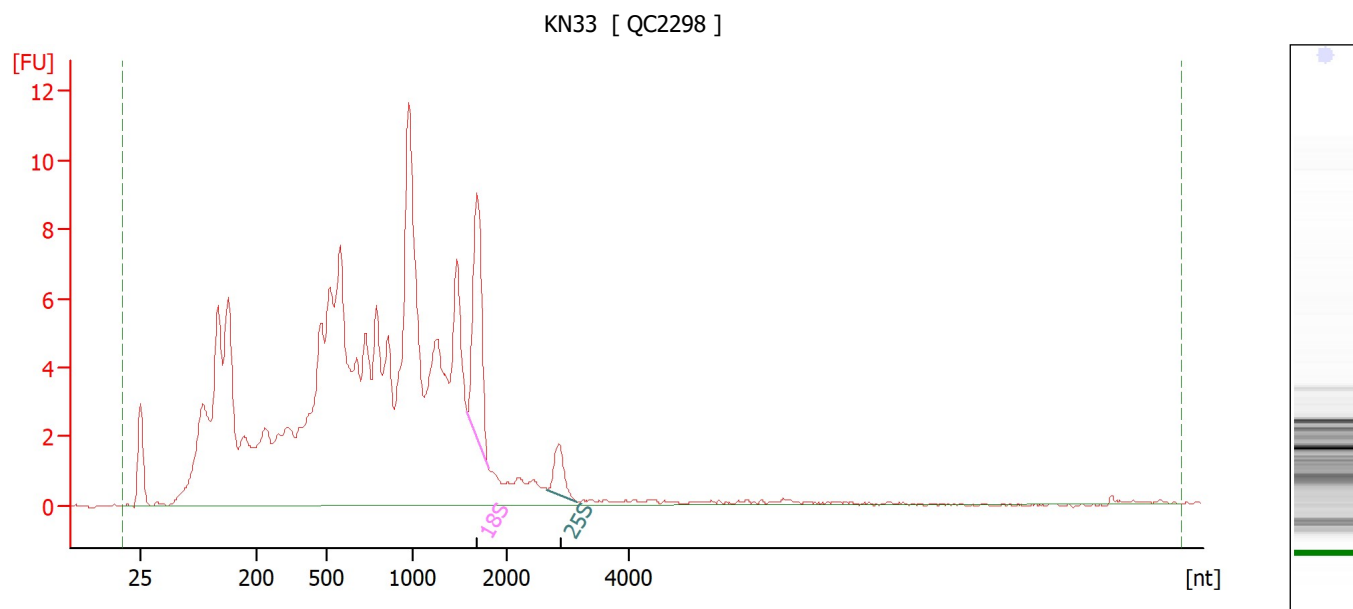
RNA Area:	186.8	RNA Integrity Number (RIN):	5.9 (B.02.10)
RNA Concentration:	234 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 5.90

Fragment table for sample 2 : KN32

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,800	16.4	8.8
25S	2,216	3,115	18.2	9.7

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : KN33**

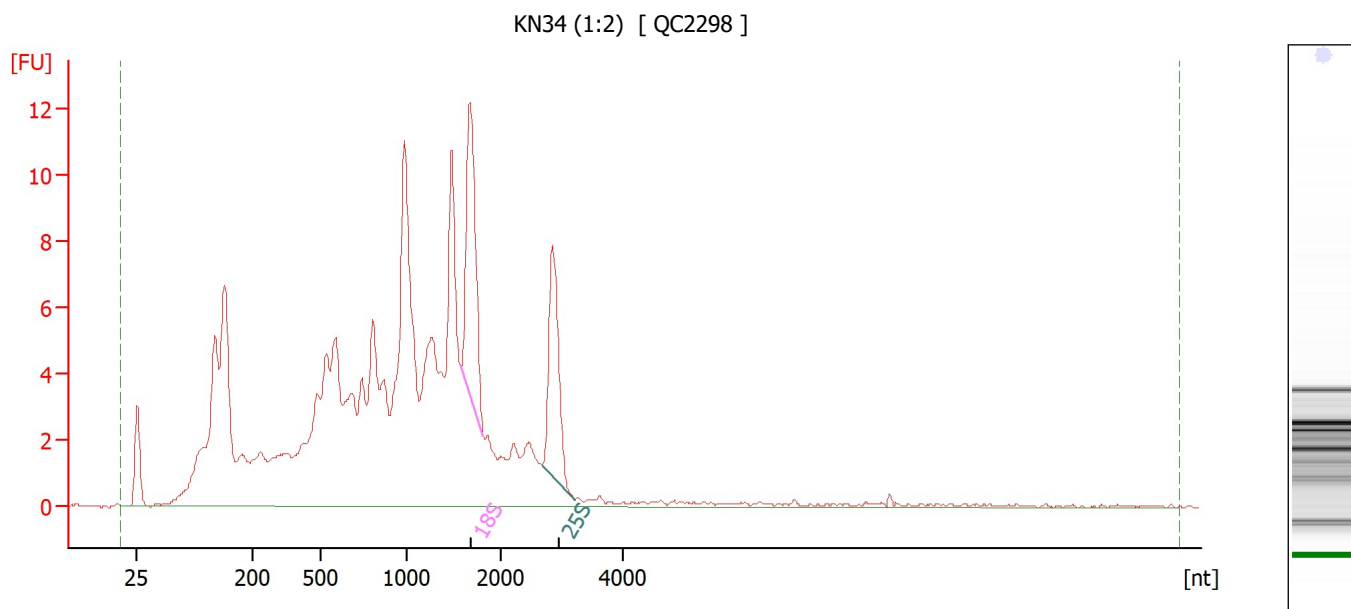
RNA Area:	196.8	RNA Integrity Number (RIN):	3.9 (B.02.10)
RNA Concentration:	247 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.2	Result Flagging Label:	RIN: 3.90

Fragment table for sample 3 : KN33

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,802	9.0	4.6
25S	2,658	3,150	1.9	1.0

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : KN34 (1:2)**

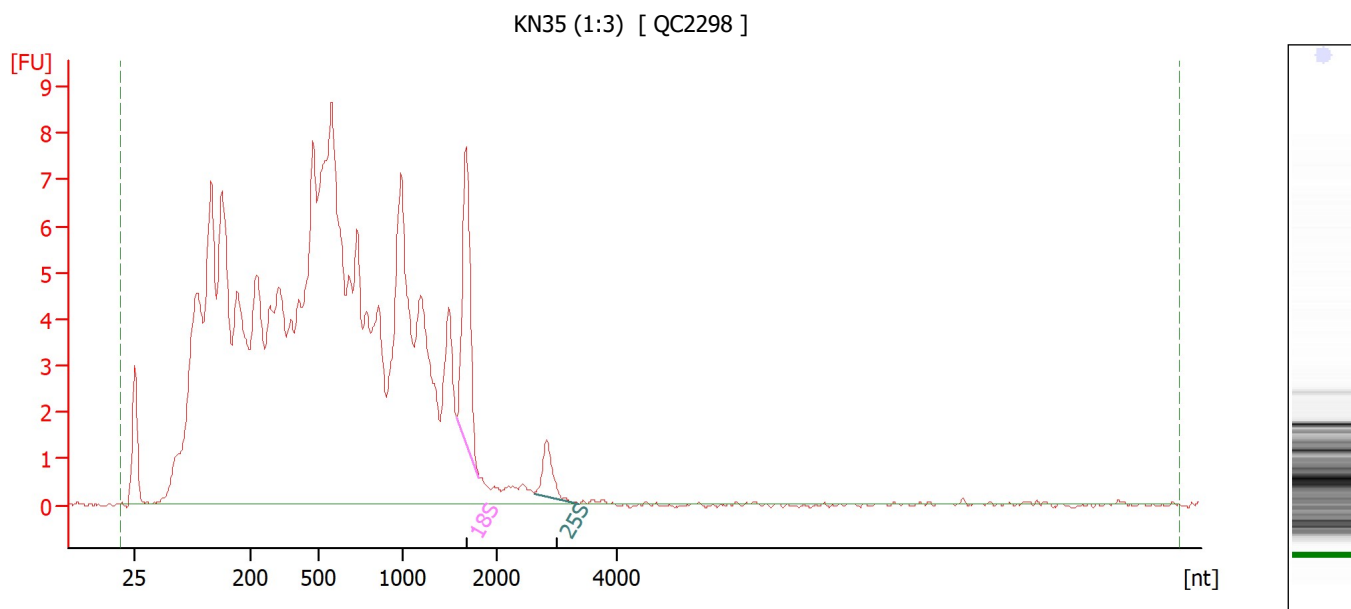
RNA Area:	197.1	RNA Integrity Number (RIN):	5.1 (B.02.10)
RNA Concentration:	247 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.7	Result Flagging Label:	RIN: 5.10

Fragment table for sample 4 : KN34 (1:2)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,809	12.7	6.4
25S	2,673	3,203	9.1	4.6

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : KN35 (1:3)**

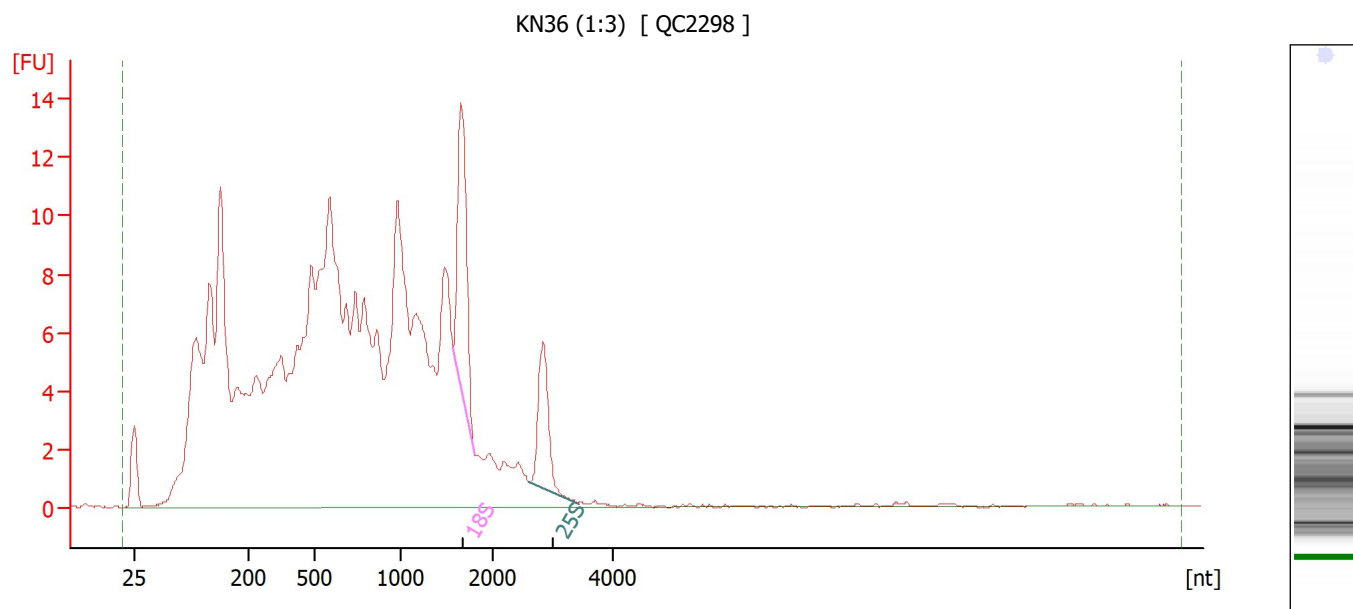
RNA Area:	220.6	RNA Integrity Number (RIN):	3.8 (B.02.10)
RNA Concentration:	277 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.2	Result Flagging Label:	RIN: 3.80

Fragment table for sample 5 : KN35 (1:3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,804	7.8	3.6
25S	2,618	3,363	1.7	0.8

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : KN36 (1:3)**

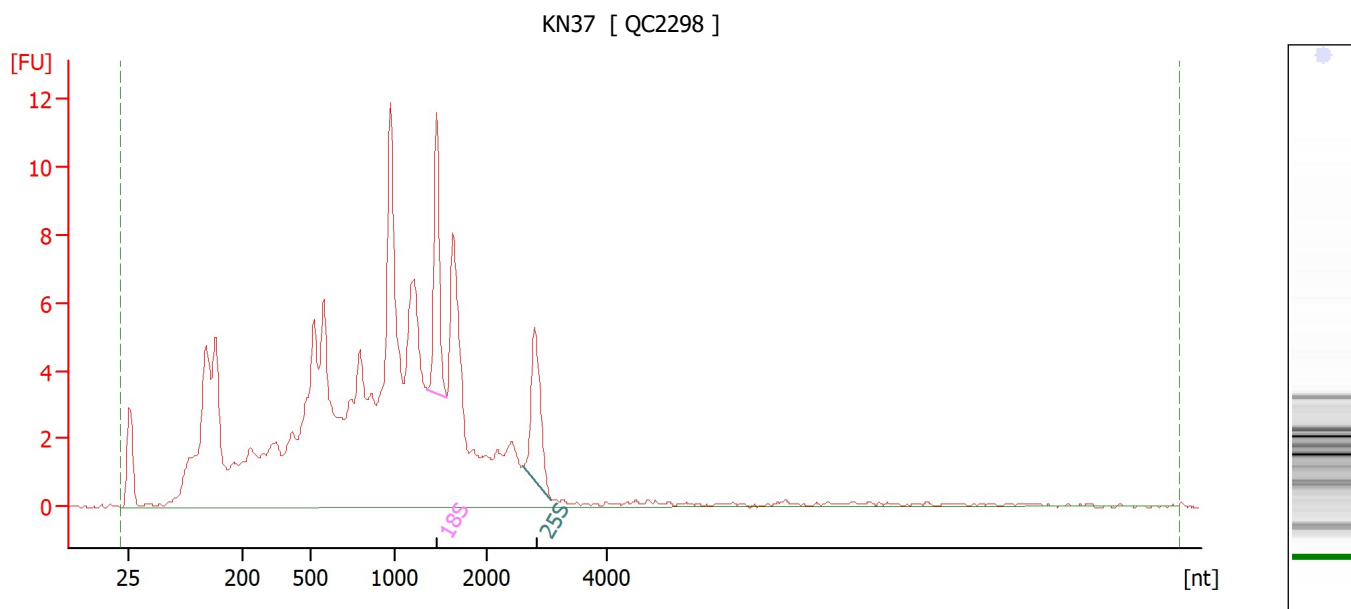
RNA Area:	315.9	RNA Integrity Number (RIN):	4.1 (B.02.10)
RNA Concentration:	397 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.5	Result Flagging Label:	RIN: 4.10

Fragment table for sample 6 : KN36 (1:3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,568	1,797	13.0	4.1
25S	2,596	3,418	7.0	2.2

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : KN37**

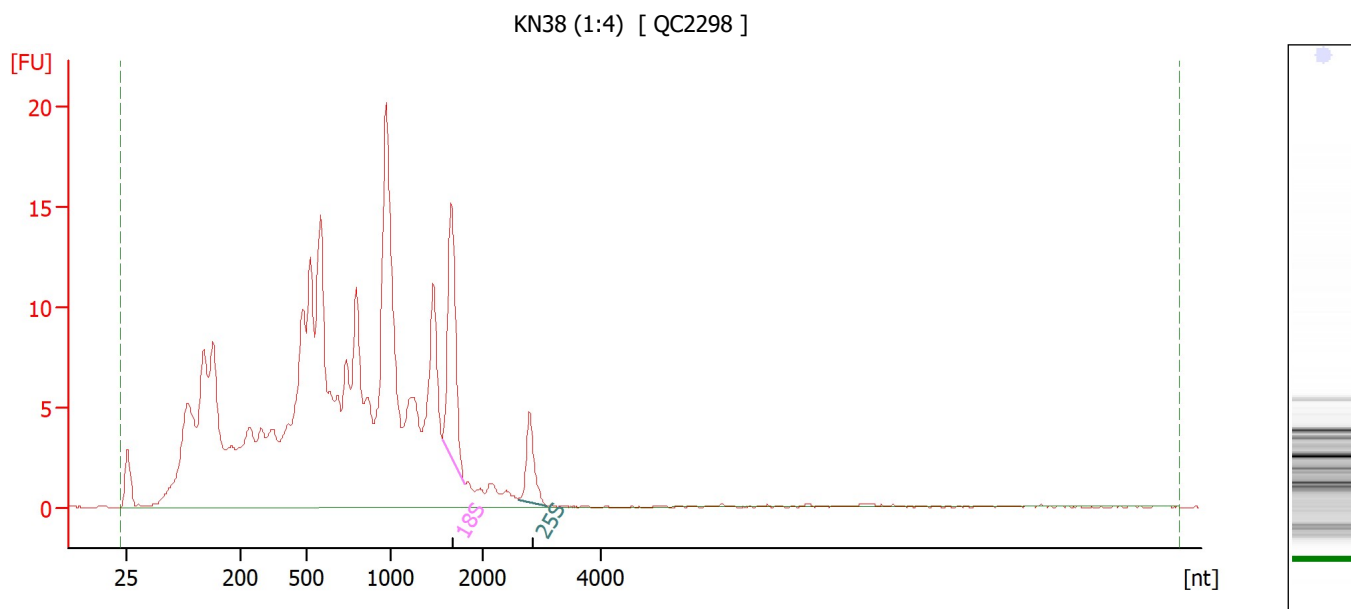
RNA Area:	180.3	RNA Integrity Number (RIN):	4.4 (B.02.10)
RNA Concentration:	226 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.8	Result Flagging Label:	RIN: 4.40

Fragment table for sample 7 : KN37

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,354	1,562	7.5	4.1
25S	2,593	3,078	5.8	3.2

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : KN38 (1:4)**

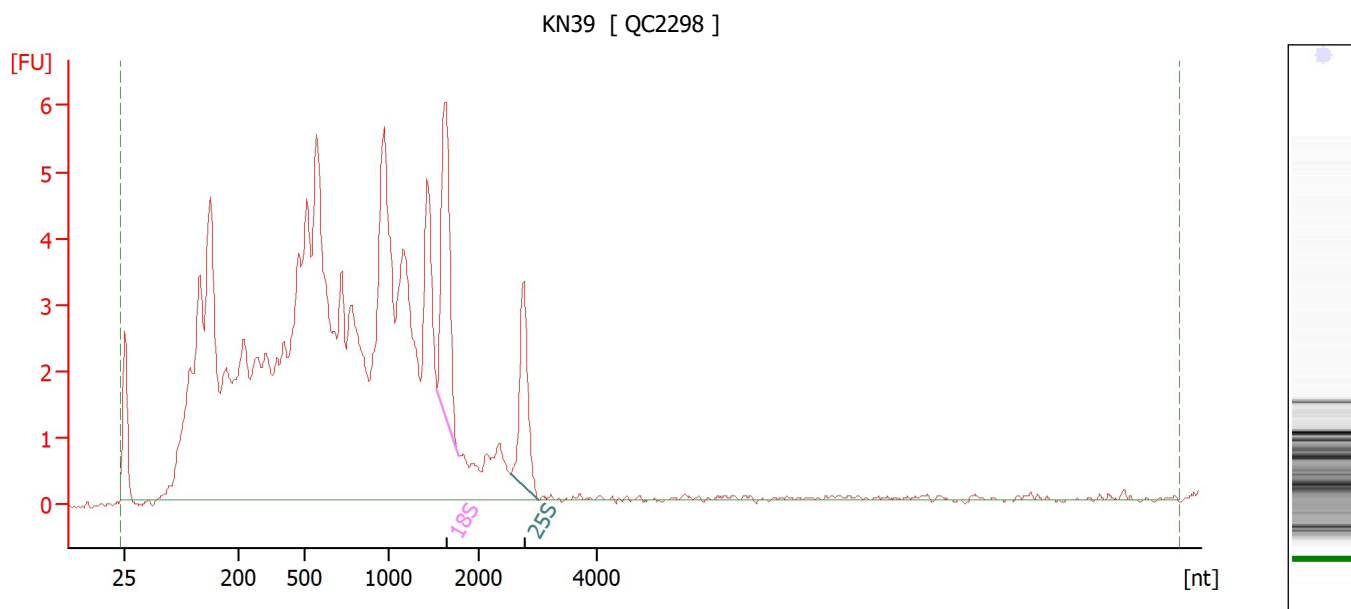
RNA Area:	302.4	RNA Integrity Number (RIN):	4.1 (B.02.10)
RNA Concentration:	379 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 4.10

Fragment table for sample 8 : KN38 (1:4)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	1,788	16.2	5.3
25S	2,591	3,060	4.9	1.6

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : KN39**

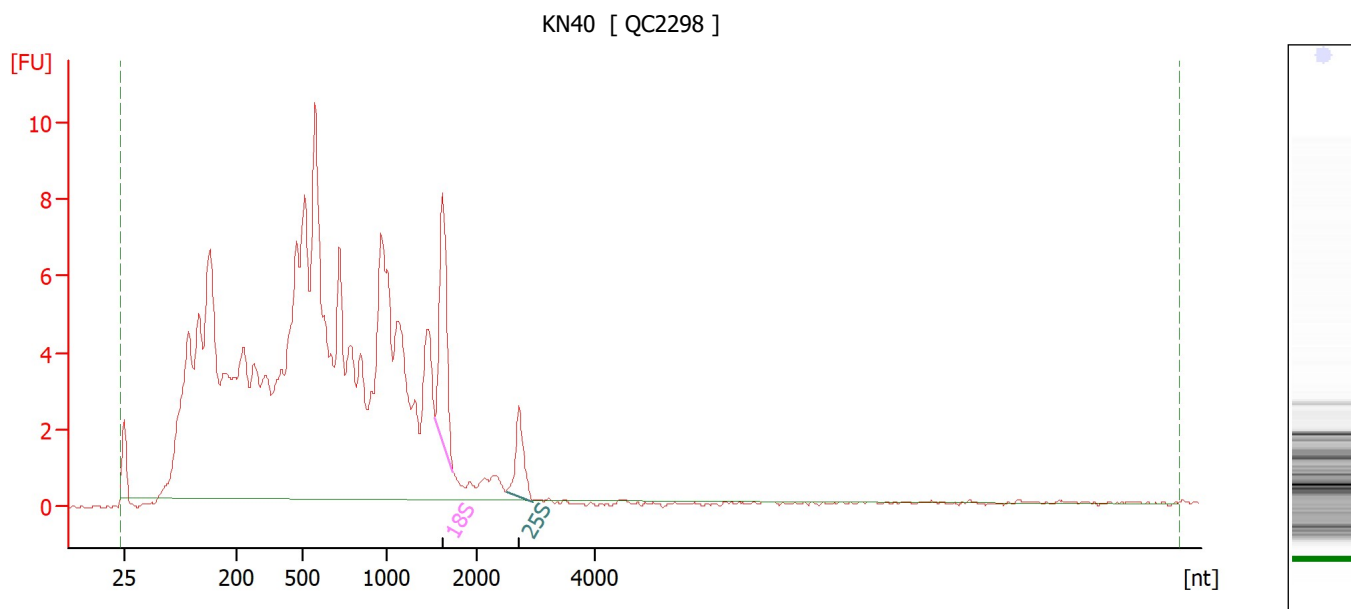
RNA Area:	136.0	RNA Integrity Number (RIN):	4.4 (B.02.10)
RNA Concentration:	171 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.6	Result Flagging Label:	RIN: 4.40

Fragment table for sample 9 : KN39

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,538	1,771	6.0	4.4
25S	2,533	3,005	3.4	2.5

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : KN40**

RNA Area:	194.1	RNA Integrity Number (RIN):	3.6 (B.02.10)
RNA Concentration:	244 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.4	Result Flagging Label:	RIN: 3.60

Fragment table for sample 10 : KN40

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,535	1,734	6.8	3.5
25S	2,495	2,932	2.6	1.3

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Created: 9/24/2025 12:04:17 PM
Modified: 9/24/2025 12:42:53 PM

Gel Image

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 Modified: 9/24/2025 12:42:53 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		9/24/2025 12:28:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2025-09-24\Bioanalyzer1_Plant RNA Nano_DE34903152_2025-09-24 Product Number : G2938C		Instrument	Run		9/24/2025 12:04:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/24/2025 12:04:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/24/2025 12:04:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/24/2025 12:04:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/24/2025 12:04:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/24/2025 12:04:24 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB