

Assay Class: DNA 12000  
Data Path: C:\...oanalyzer\2100 expert\data\2019-10-09\2019-10-09\_004\_PB.xad

Created: 10/9/2019 1:06:22 PM  
Modified: 10/9/2019 1:39:52 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

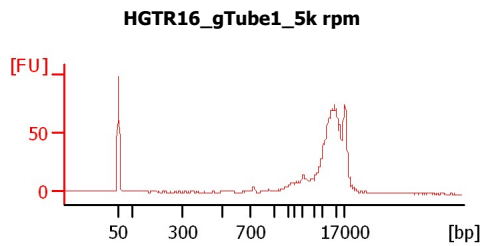
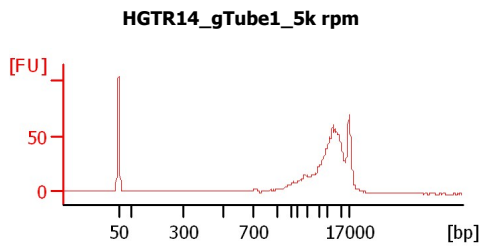
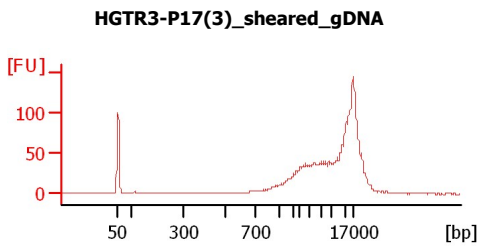
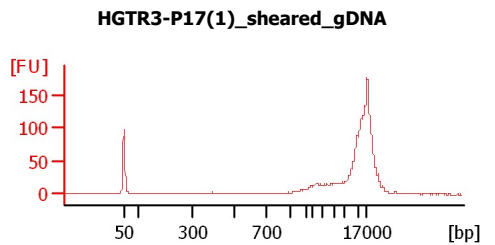
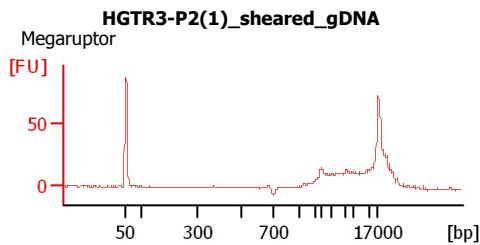
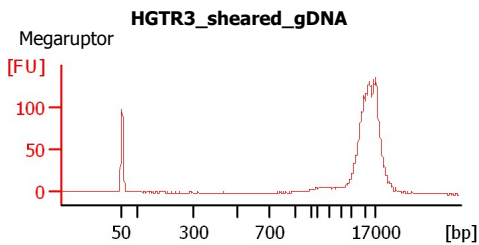
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 12000 Series II.xsy

Assay Class: DNA 12000  
Version: 2.4  
Assay Comments: DNA Analysis 100 -12000 bp

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Chip Information:

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



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HGTR3_sheared_gDNA	Megaruptor	<input type="checkbox"/>	✓			
HGTR3-P2(1)_sheared_gDNA	Megaruptor	<input type="checkbox"/>	✓			
HGTR3-P17(1)_sheared_gDNA		<input type="checkbox"/>	✓			
HGTR3-P17(3)_sheared_gDNA		<input type="checkbox"/>	✓			
HGTR14_gTube1_5k rpm		<input type="checkbox"/>	✓			
HGTR16_gTube1_5k rpm		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**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] : 20  
Maximum Visible Range [s] : 99  
Start Analysis Time Range [s] : 20  
End Analysis Time Range [s] : 98.95  
Ladder Concentration [ng/μl] : 44  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [ng/μl] : 8.3  
Upper Marker Concentration [ng/μl] : 4.2  
Used Upper Marker for Quantitation  
This is a Qualitative Assay Only  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 20  
Integration End Time [s] : 98.95  
Slope Threshold : 0.8  
Height Threshold [FU] : 20  
Area Threshold : 0.1  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

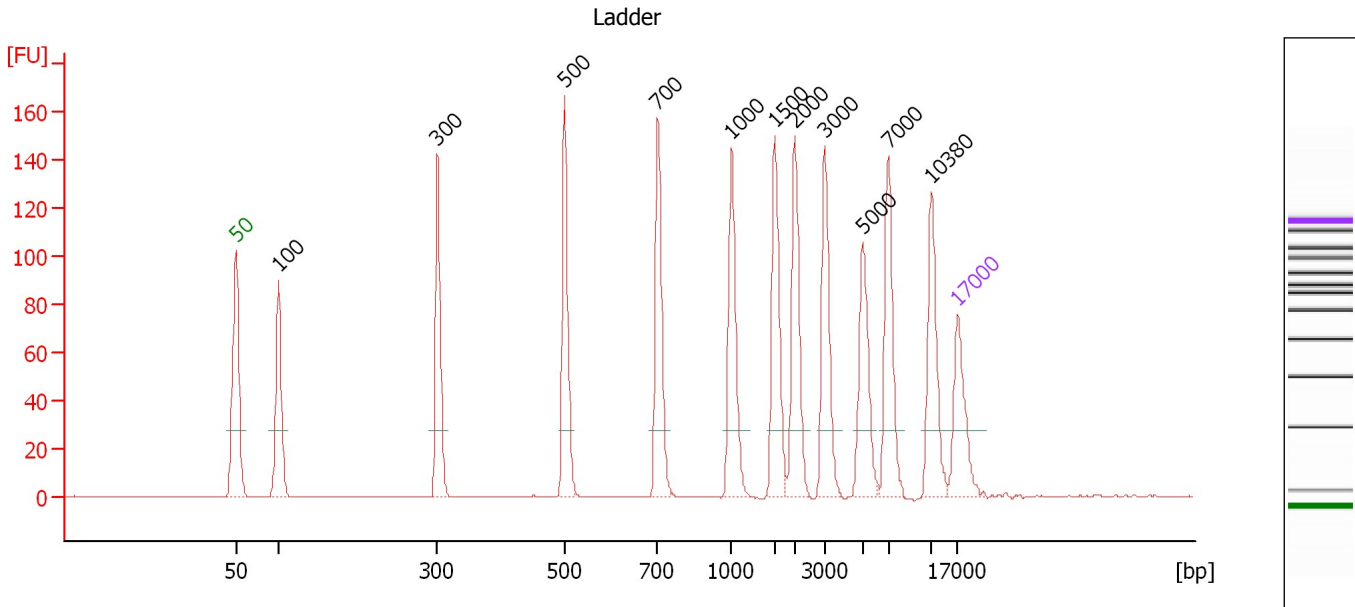
**Ladder**

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

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**Electropherogram Summary**



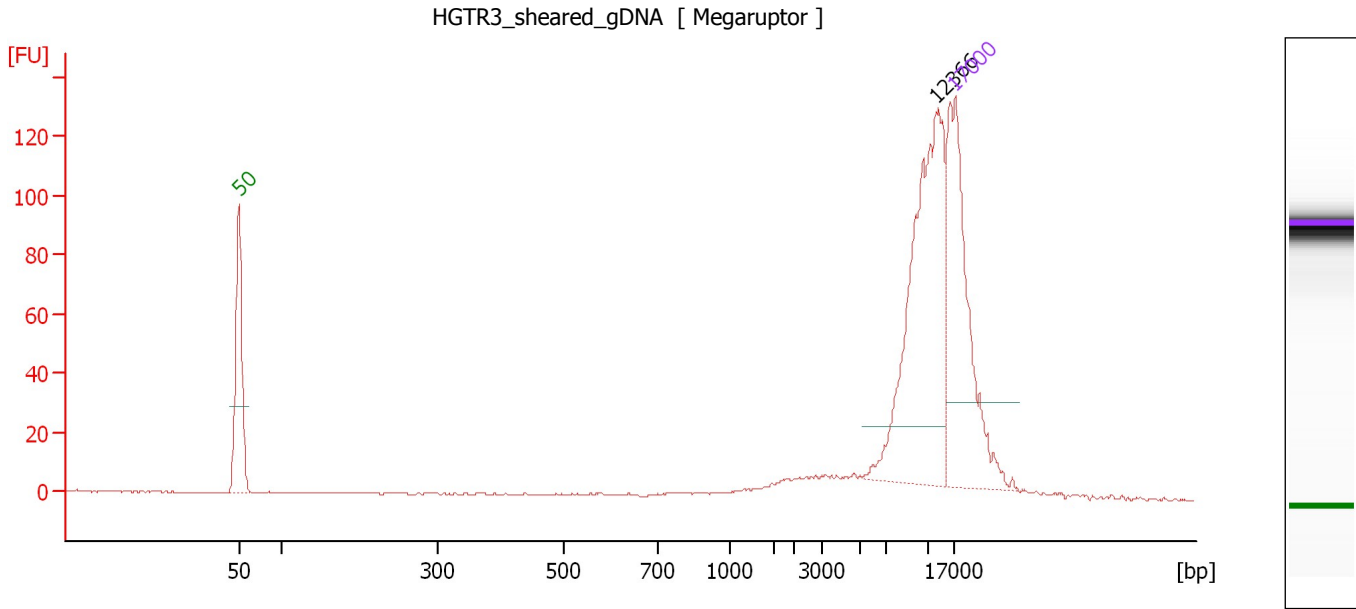
**Peak table for Ladder**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HGTR3\_sheared\_gDNA**

Number of peaks found: 1

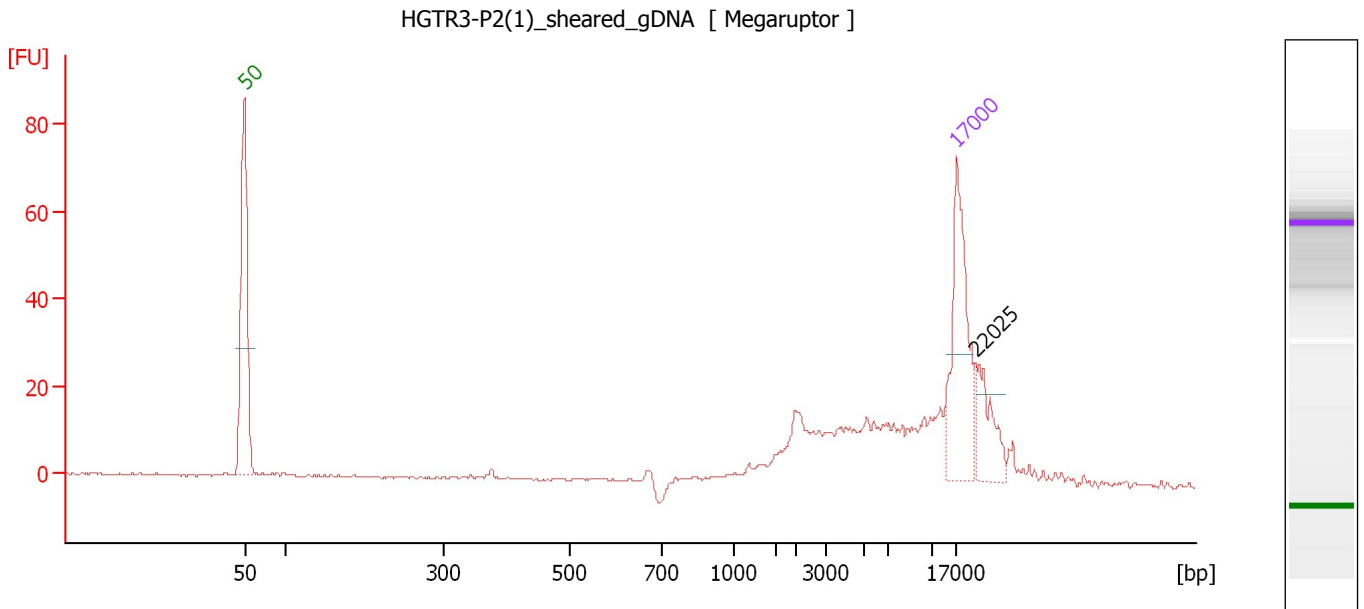
**Peak table for sample 1 : HGTR3\_sheared\_gDNA**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	12,366	6.25	0.8	
3	17,000	4.20	0.4	Upper Marker

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HGTR3-P2(1) sheared gDNA**

Number of peaks found: 0

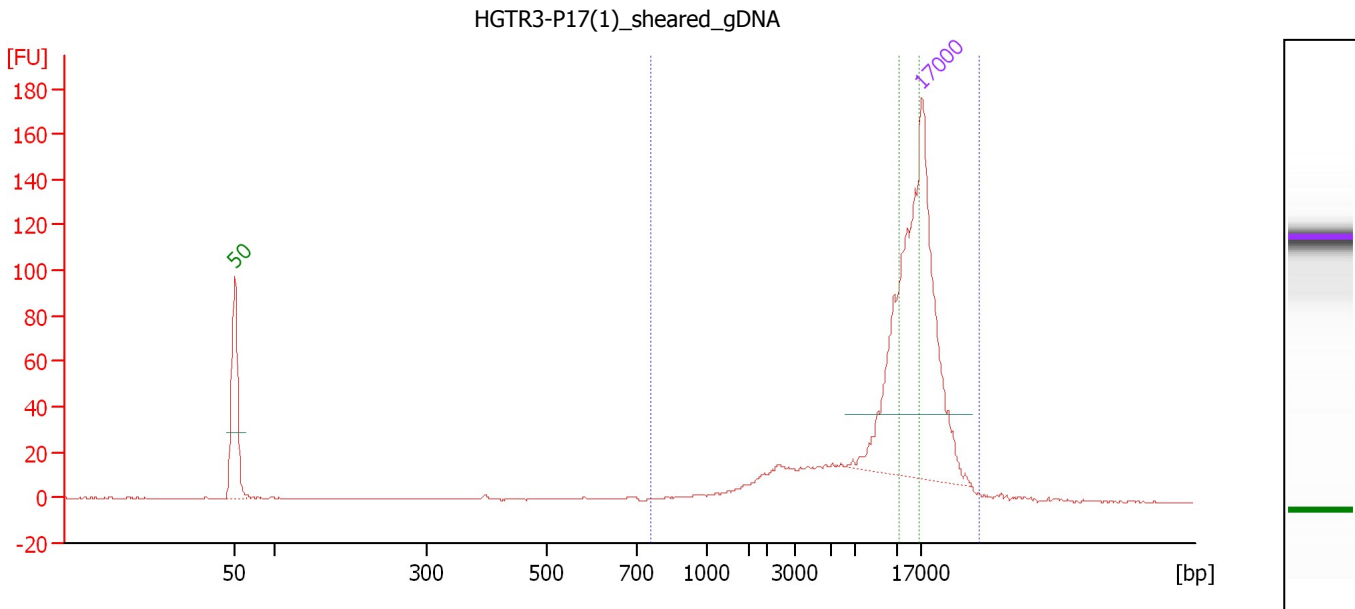
**Peak table for sample 3 : HGTR3-P2(1) sheared gDNA**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker
3	22,025	0.00	0.0	

Assay Class: DNA 12000  
 Data Path: C:\...oanalyzer\2100 expert\data\2019-10-09\2019-10-09\_004\_PB.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HGTR3-P17(1) sheared gDNA**

Number of peaks found: 0 Area 2: 0.0  
 Area 1: 112.6

**Peak table for sample 5 : HGTR3-P17(1) sheared gDNA**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

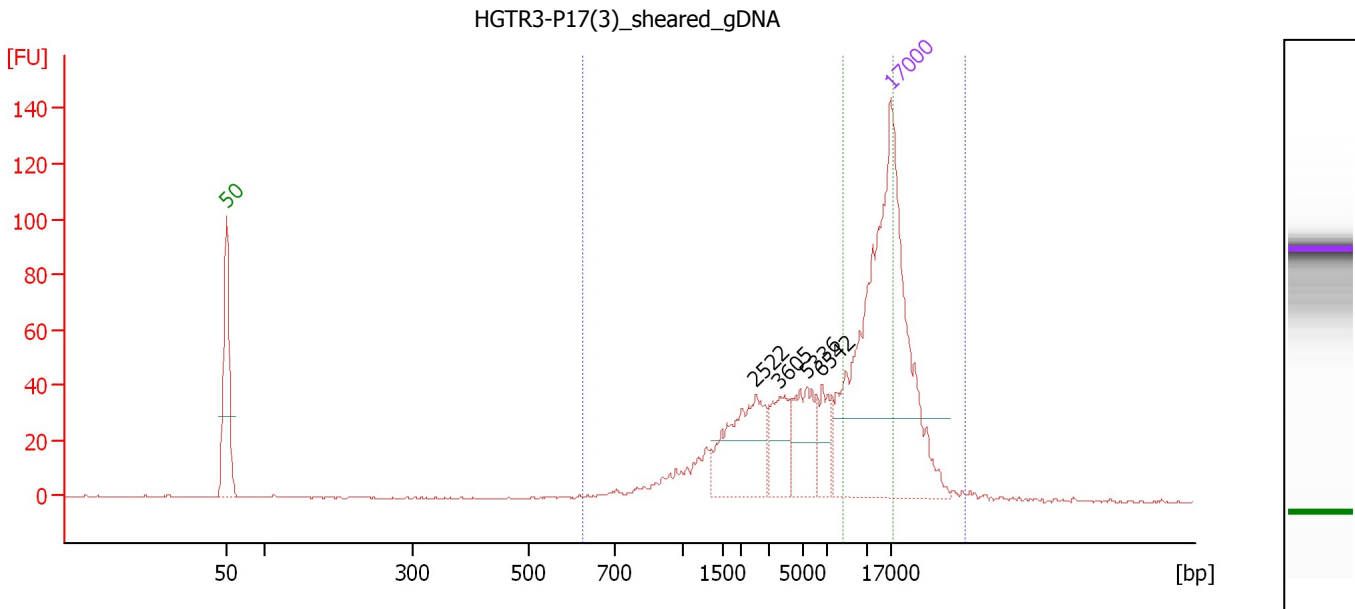
**Region table for sample 5 : HGTR3-P17(1) sheared gDNA**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
758	32,754	13,279	1.14	112.6	85	49.8	Blue
10,767	16,123	13,398	0.00	0.0	0	11.5	Green

Assay Class: DNA 12000  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HGTR3-P17(3) sheared gDNA**

Number of peaks found: 4                                      Area 2: 0.0  
 Area 1: 337.3

**Peak table for sample 7 : HGTR3-P17(3) sheared gDNA**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,522	1.06	0.6	
3	3,605	0.53	0.2	
4	5,336	0.60	0.2	
5	6,542	0.36	0.1	
6	17,000	4.20	0.4	Upper Marker

**Region table for sample 7 : HGTR3-P17(3) sheared gDNA**

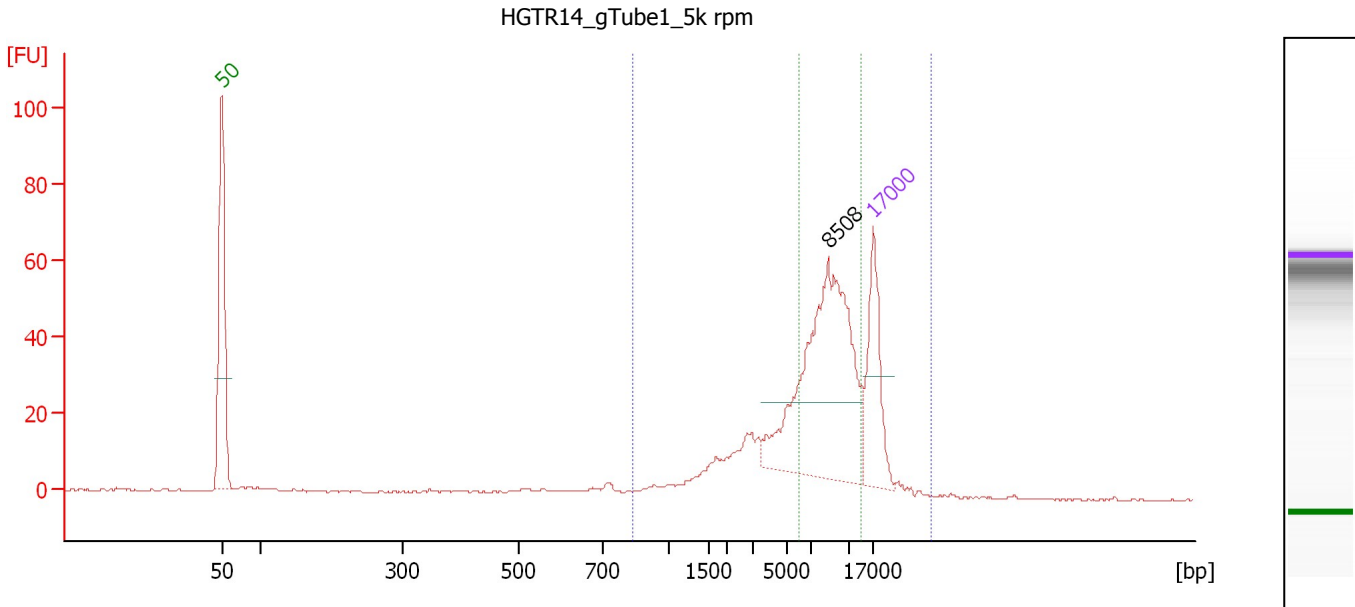
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
626	37,402	10,660	3.35	337.3	97	71.7	Blue
8,350	17,479	12,543	0.00	0.0	0	22.5	Green



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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HGTR14\_gTube1\_5k rpm**

Number of peaks found: 1                      Area 2: 198.2  
 Area 1: 317.4

**Peak table for sample 9 : HGTR14\_gTube1\_5k rpm**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	8,508	14.13	2.5	
3	17,000	4.20	0.4	Upper Marker

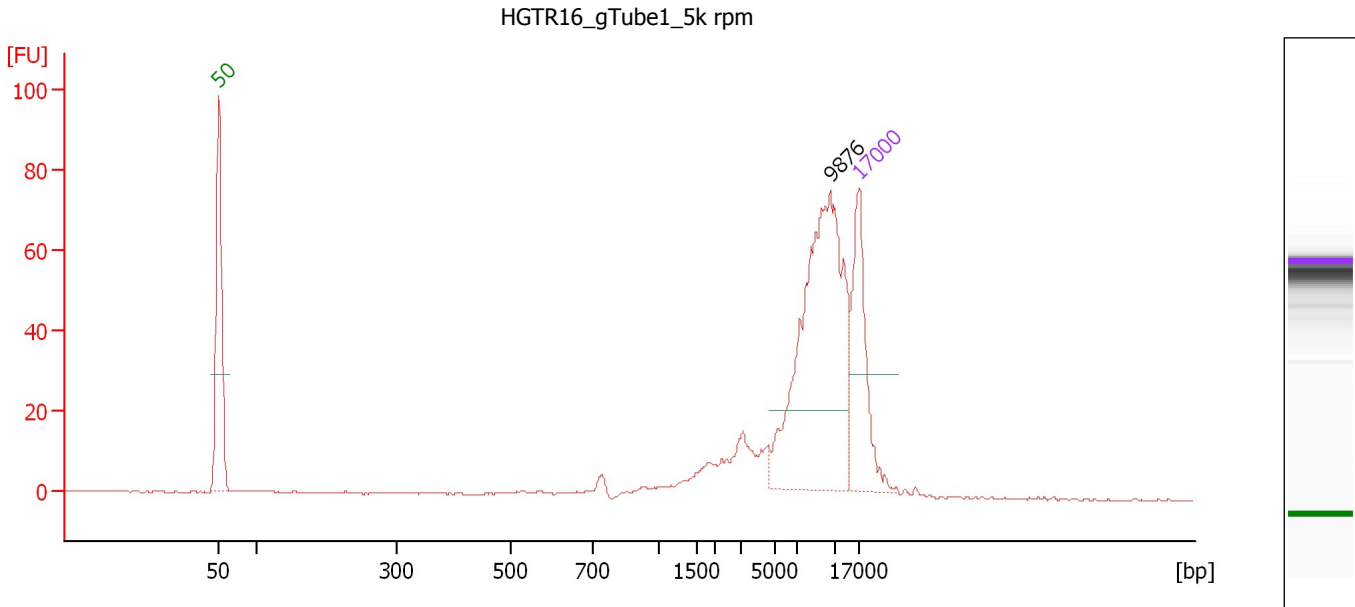
**Region table for sample 9 : HGTR14\_gTube1\_5k rpm**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
837	33,221	9,111	21.07	317.4	95	58.9	Blue
6,053	13,542	8,807	12.94	198.2	59	18.7	Green

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HGTR16\_gTube1\_5k rpm**

Number of peaks found: 1

**Peak table for sample 11 : HGTR16\_gTube1\_5k rpm**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,876	13.03	2.0	
3	17,000	4.20	0.4	Upper Marker

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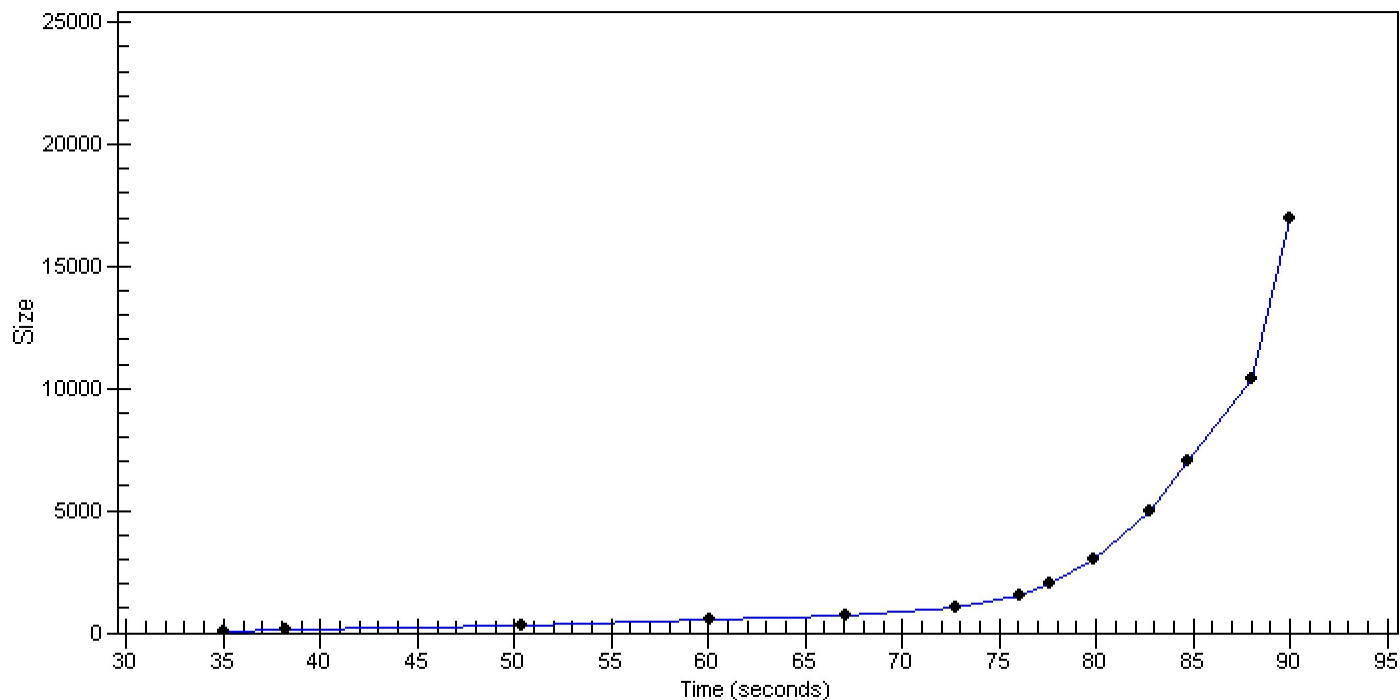
**Gel Image**

Assay Class: DNA 12000  
Data Path: C:\...oanalyzer\2100 expert\data\2019-10-09\2019-10-09\_004\_PB.xad

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**Curves**

**Standard Curve**



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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		10/9/2019 1:39:17 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\2019-10-09\2019-10-09_004.xad)		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/9/2019 1:06:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1