

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-23\2015-09-23_001.xad

Created: 9/23/2015 8:45:33 AM
Modified: 9/23/2015 9:26:53 AM

Electrophoresis File Run Summary

Instrument Information:

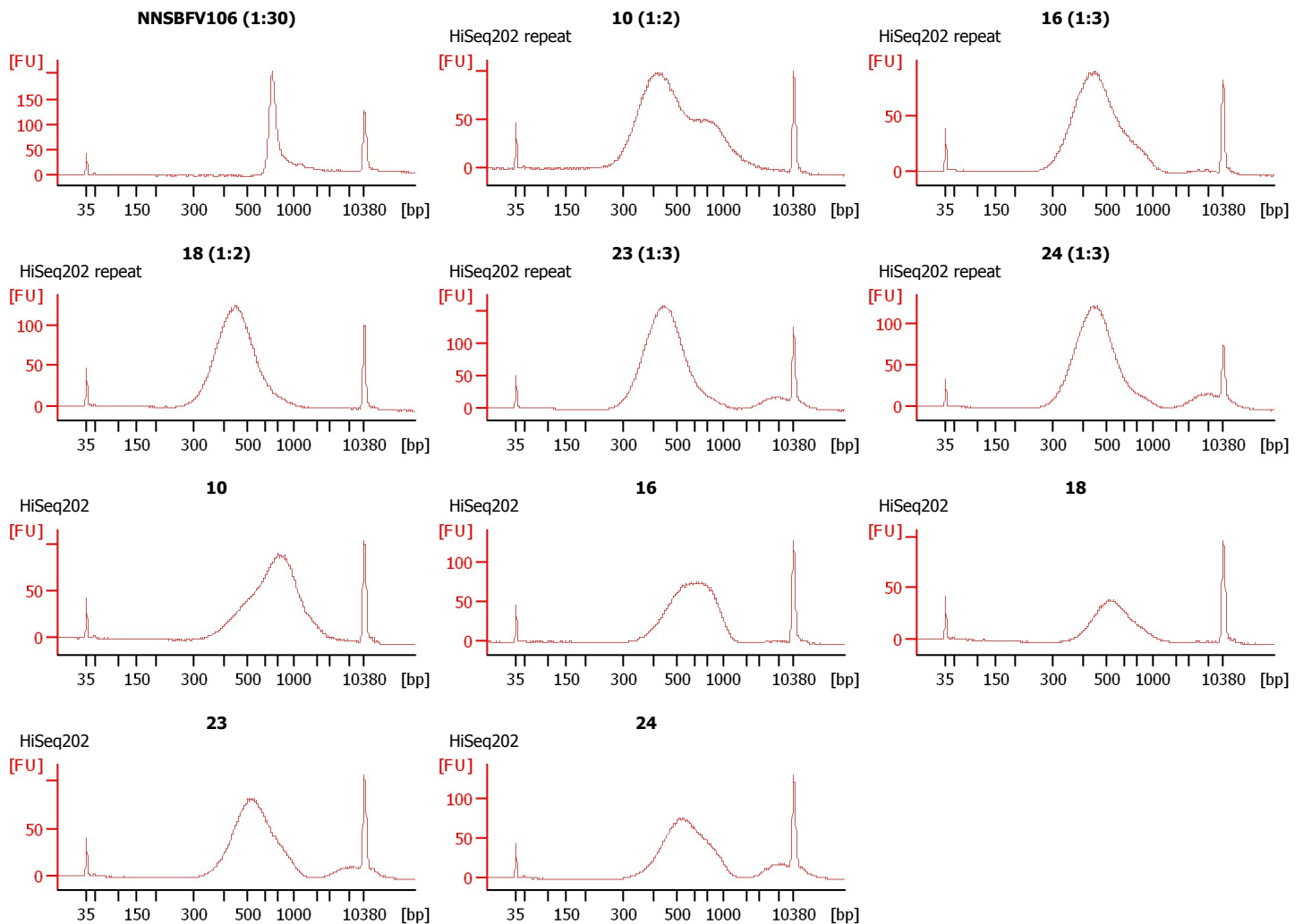
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

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
NNSBFV106 (1:30)		<input type="checkbox"/>	✓			
10 (1:2)	HiSeq202 repeat	<input type="checkbox"/>	✓			
16 (1:3)	HiSeq202 repeat	<input type="checkbox"/>	✓			
18 (1:2)	HiSeq202 repeat	<input type="checkbox"/>	✓			
23 (1:3)	HiSeq202 repeat	<input type="checkbox"/>	✓			
24 (1:3)	HiSeq202 repeat	<input type="checkbox"/>	✓			
10	HiSeq202	<input type="checkbox"/>	✓			
16	HiSeq202	<input type="checkbox"/>	✓			
18	HiSeq202	<input type="checkbox"/>	✓			
23	HiSeq202	<input type="checkbox"/>	✓			
24	HiSeq202	<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.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

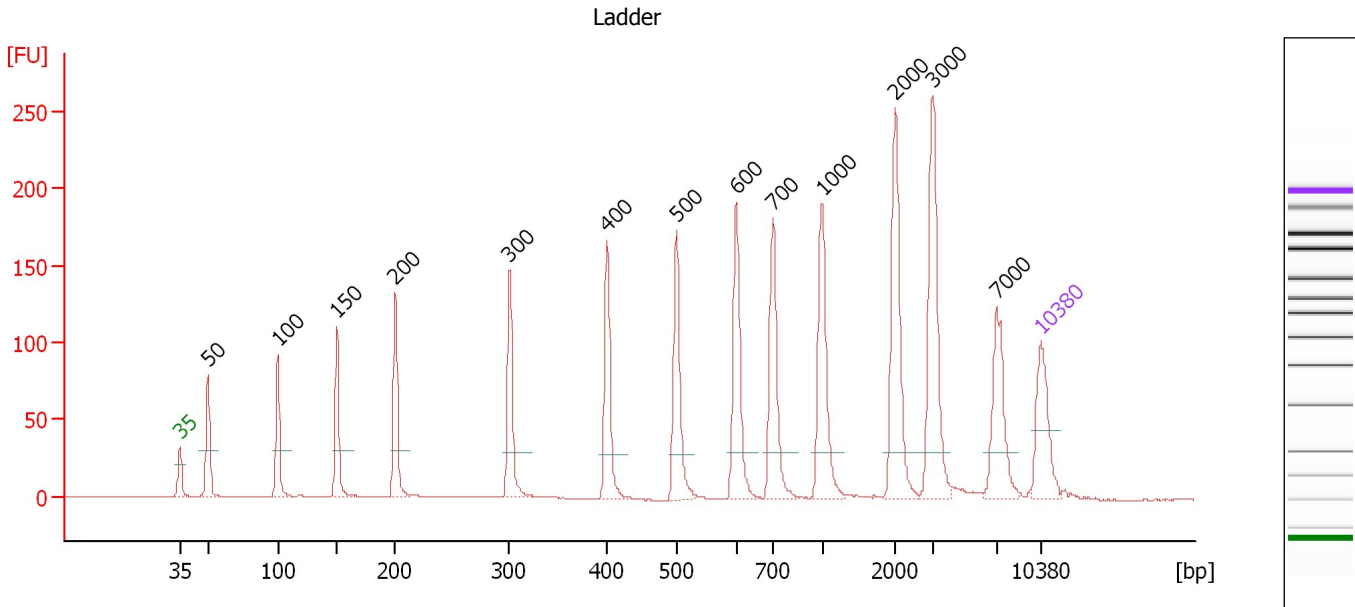
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

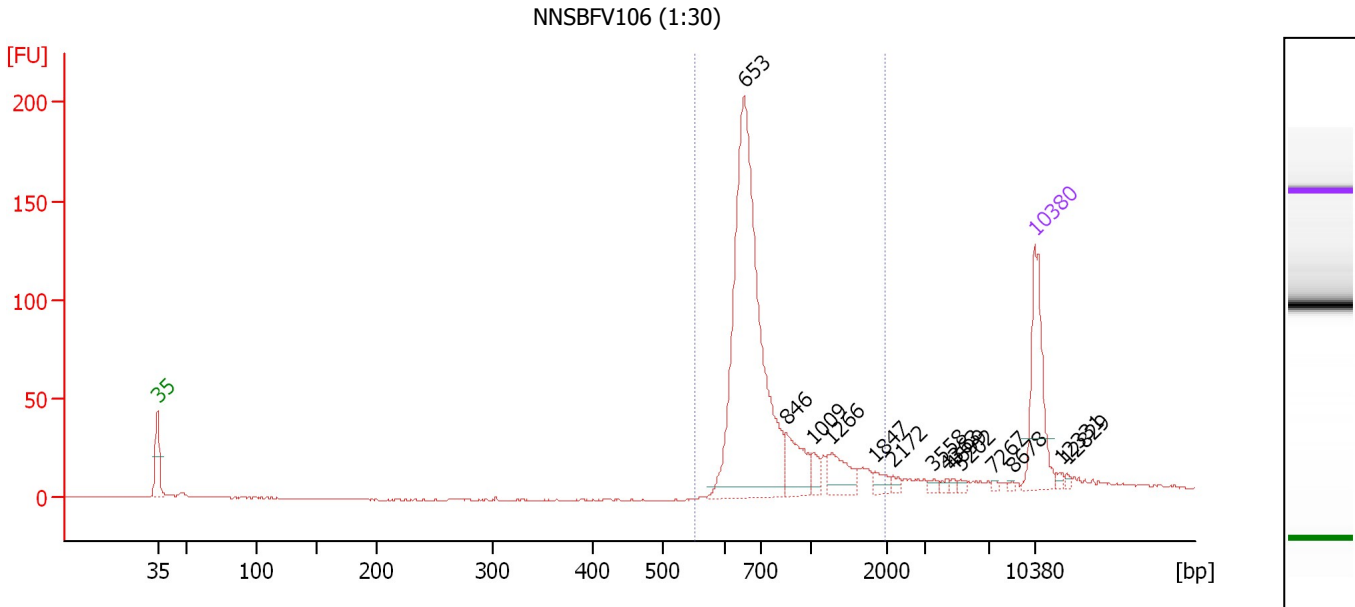
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.30
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.75
5	200	150.00	1,136.4	Ladder Peak	60.52
6	300	150.00	757.6	Ladder Peak	69.80
7	400	150.00	568.2	Ladder Peak	77.74
8	500	150.00	454.5	Ladder Peak	83.38
9	600	150.00	378.8	Ladder Peak	88.24
10	700	150.00	324.7	Ladder Peak	91.23
11	1,000	150.00	227.3	Ladder Peak	95.22
12	2,000	150.00	113.6	Ladder Peak	101.16
13	3,000	150.00	75.8	Ladder Peak	104.24
14	7,000	150.00	32.5	Ladder Peak	109.44
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : NNSBFV106 (1:30)

Number of peaks found: 14 Corr. Area 1: 688.3
 Noise: 0.2

Peak table for sample 1 : NNSBFV106 (1:30)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	653	454.32	1,054.7		89.81
3	846	45.44	81.3		93.17
4	1,009	12.15	18.2		95.27
5	1,266	31.13	37.3		96.80
6	1,847	9.25	7.6		100.25
7	2,172	4.71	3.3		101.69
8	3,558	3.72	1.6		104.97
9	4,363	2.93	1.0		106.01
10	4,699	2.37	0.8		106.45
11	5,202	3.00	0.9		107.10
12	7,267	2.10	0.4		109.72
13	8,678	1.60	0.3		111.21
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,331	0.00	0.0		115.05
16	12,829	0.00	0.0		115.58

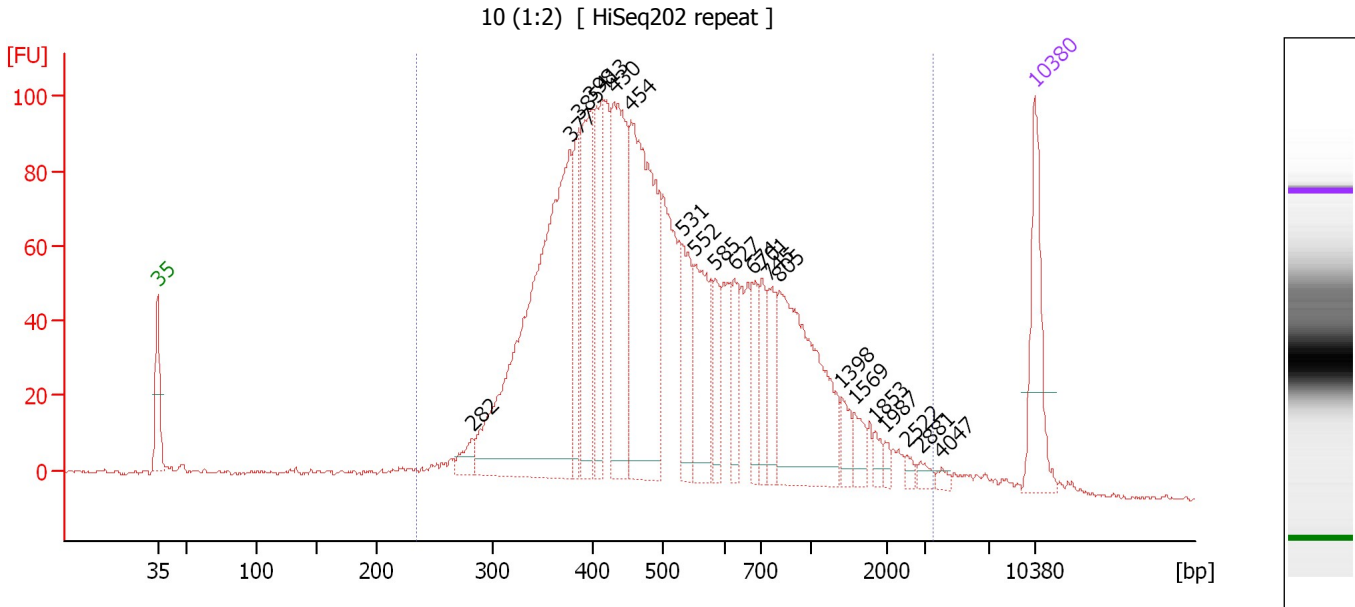
Region table for sample 1 : NNSBFV106 (1:30)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
553	793	1,974	688.3	1,121.3	89	35.0	538.74

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 10 (1:2)

Number of peaks found: 22 Corr. Area 1: 2,443.9
 Noise: 0.6

Peak table for sample 2 : 10 (1:2)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	282	20.88	112.2		68.12
3	377	557.86	2,241.8		75.92
4	385	82.51	324.3		76.58
5	398	144.59	550.1		77.60
6	413	114.19	418.6		78.49
7	430	202.36	713.4		79.42
8	454	325.67	1,086.6		80.79
9	531	76.30	217.8		84.87
10	552	97.69	268.3		85.89
11	585	38.26	99.0		87.53
12	627	46.08	111.4		89.03
13	674	37.81	85.0		90.45
14	701	40.62	87.8		91.25
15	745	49.62	101.0		91.82
16	805	224.31	422.4		92.62
17	1,398	20.07	21.8		97.58
18	1,569	18.54	17.9		98.60
19	1,853	9.37	7.7		100.28
20	1,987	6.17	4.7		101.08
21	2,522	6.20	3.7		102.77
22	2,881	7.14	3.8		103.87
23	4,047	4.86	1.8		105.60
24	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

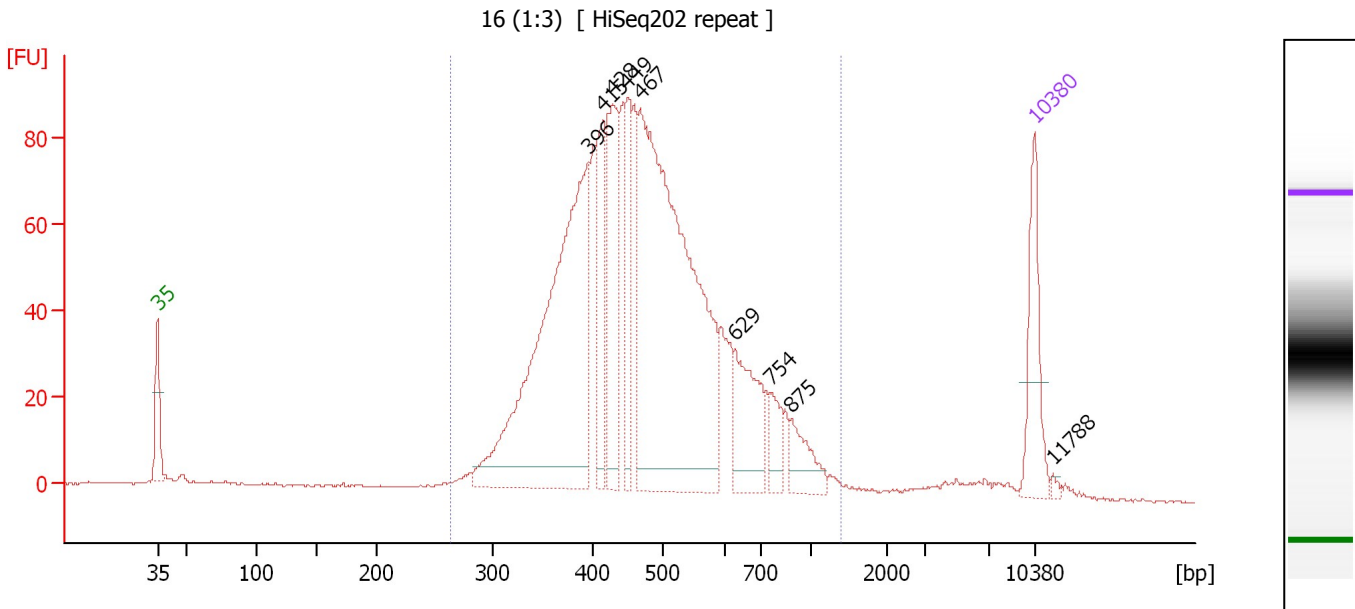
... Region table for sample 2 : 10 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
235	602	3,528	2,443.9	8,705.1	 97	65.5	2,667.32

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 16 (1:3)

Number of peaks found: 9 Corr. Area 1: 1,655.6
 Noise: 0.2

Peak table for sample 3 : 16 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	396	608.59	2,330.7		77.39
3	415	122.39	447.3		78.56
4	428	172.40	610.2		79.32
5	449	105.60	356.5		80.49
6	467	744.77	2,415.7		81.52
7	629	111.94	269.5		89.11
8	754	34.67	69.7		91.94
9	875	45.70	79.1		93.56
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,788	0.00	0.0		114.48

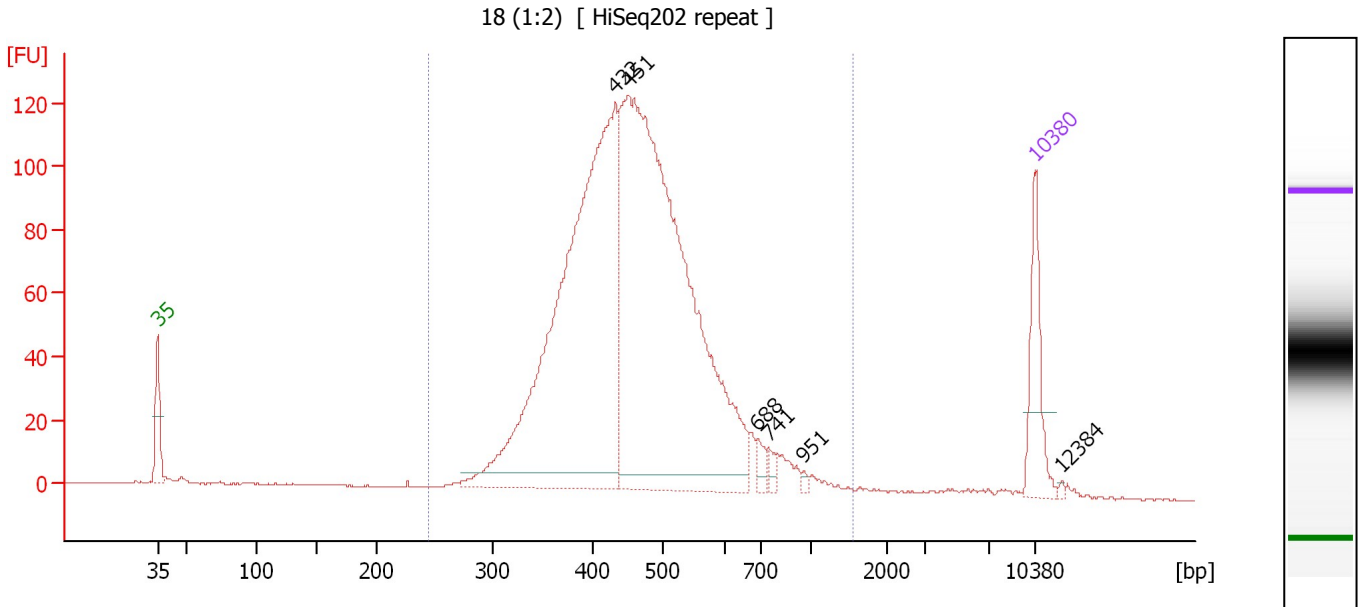
Region table for sample 3 : 16 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
263	488	1,384	1,655.6	7,883.5	94	29.1	2,330.01

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 18 (1:2)

Number of peaks found: 6 Corr. Area 1: 1,934.1
 Noise: 0.2

Peak table for sample 4 : 18 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	432	987.01	3,462.9		79.54
3	451	1,213.80	4,074.5		80.64
4	688	15.77	34.7		90.86
5	741	11.97	24.5		91.78
6	951	4.60	7.3		94.57
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,384	0.00	0.0		115.11

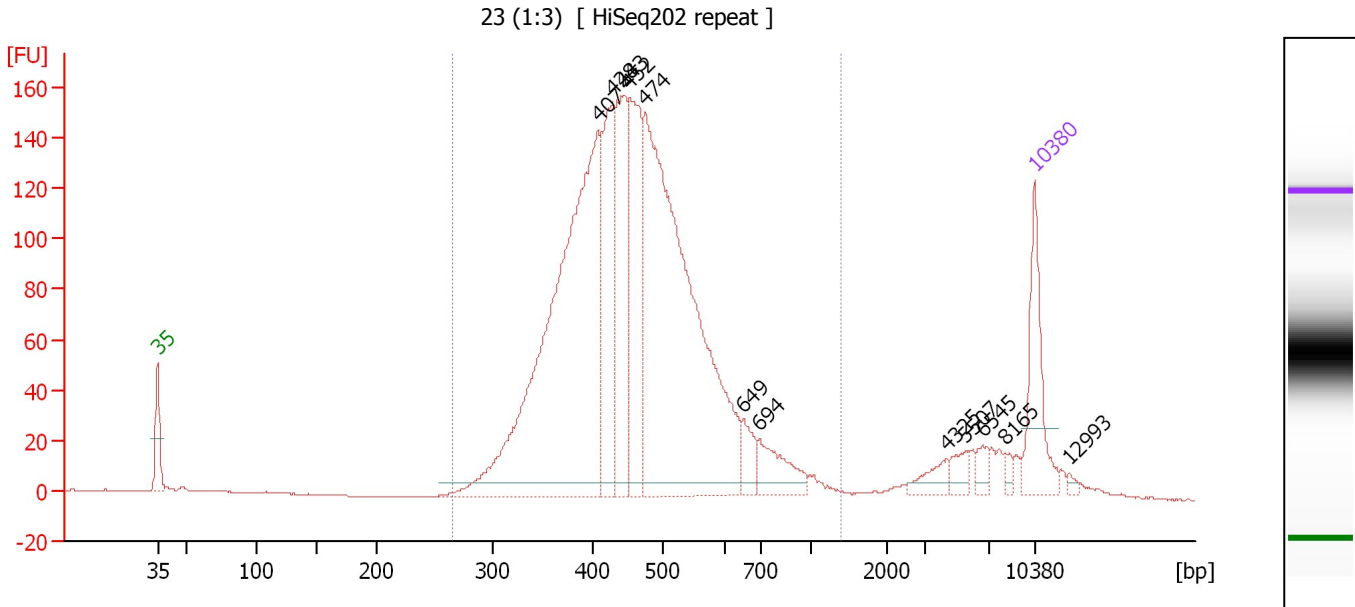
Region table for sample 4 : 18 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
244	470	1,544	1,934.1	7,968.7	96	25.4	2,323.20

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 23 (1:3)

Number of peaks found: 12 Corr. Area 1: 2,525.6
 Noise: 0.2

Peak table for sample 5 : 23 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	407	737.13	2,743.5		78.14
3	428	184.04	651.9		79.30
4	443	197.78	675.8		80.19
5	452	201.95	677.4		80.66
6	474	732.69	2,341.8		81.91
7	649	31.86	74.4		89.70
8	694	55.49	121.1		91.05
9	4,325	19.38	6.8		105.96
10	5,507	14.96	4.1		107.50
11	6,545	12.94	3.0		108.85
12	8,165	6.69	1.2		110.67
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,993	0.00	0.0		115.75

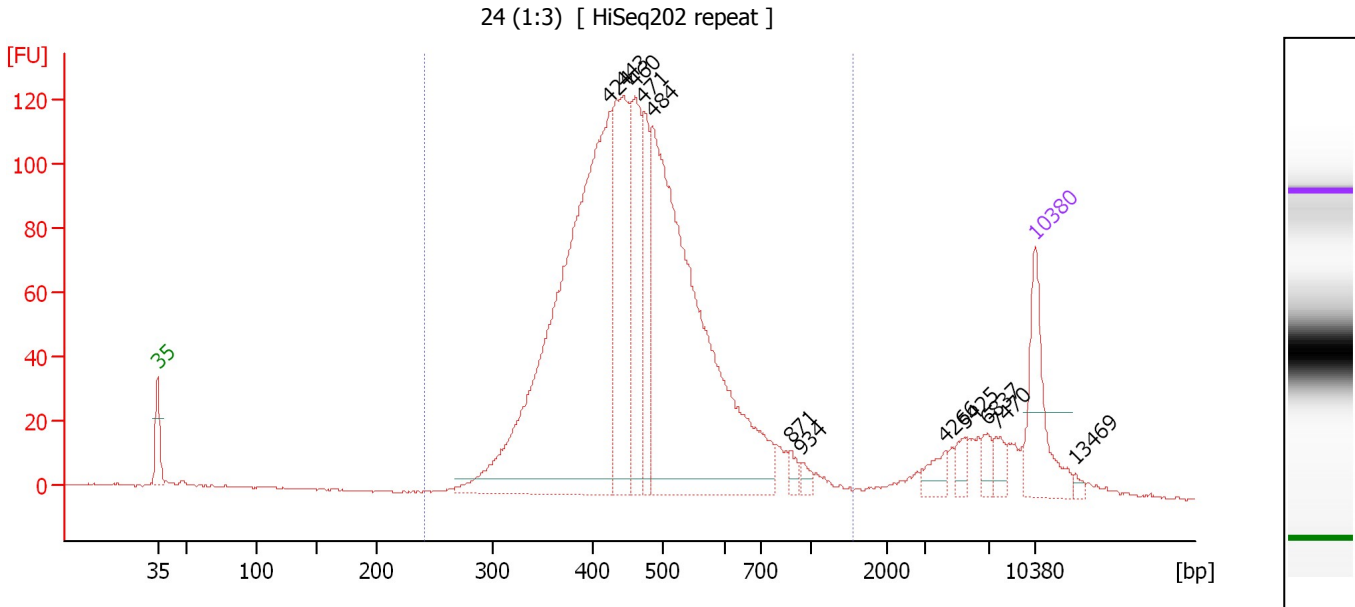
Region table for sample 5 : 23 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
266	468	1,397	2,525.6	7,436.6	93	24.4	2,160.59

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 24 (1:3)

Number of peaks found: 12 Corr. Area 1: 1,952.3
 Noise: 0.3

Peak table for sample 6 : 24 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	424	807.77	2,887.7		79.08
3	443	252.99	865.2		80.17
4	460	147.26	485.3		81.11
5	471	95.93	308.3		81.77
6	484	699.02	2,188.3		82.48
7	871	11.23	19.5		93.50
8	934	9.52	15.4		94.35
9	4,266	18.89	6.7		105.89
10	5,425	13.09	3.7		107.39
11	6,837	12.91	2.9		109.23
12	7,470	13.88	2.8		109.94
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,469	0.00	0.0		116.25

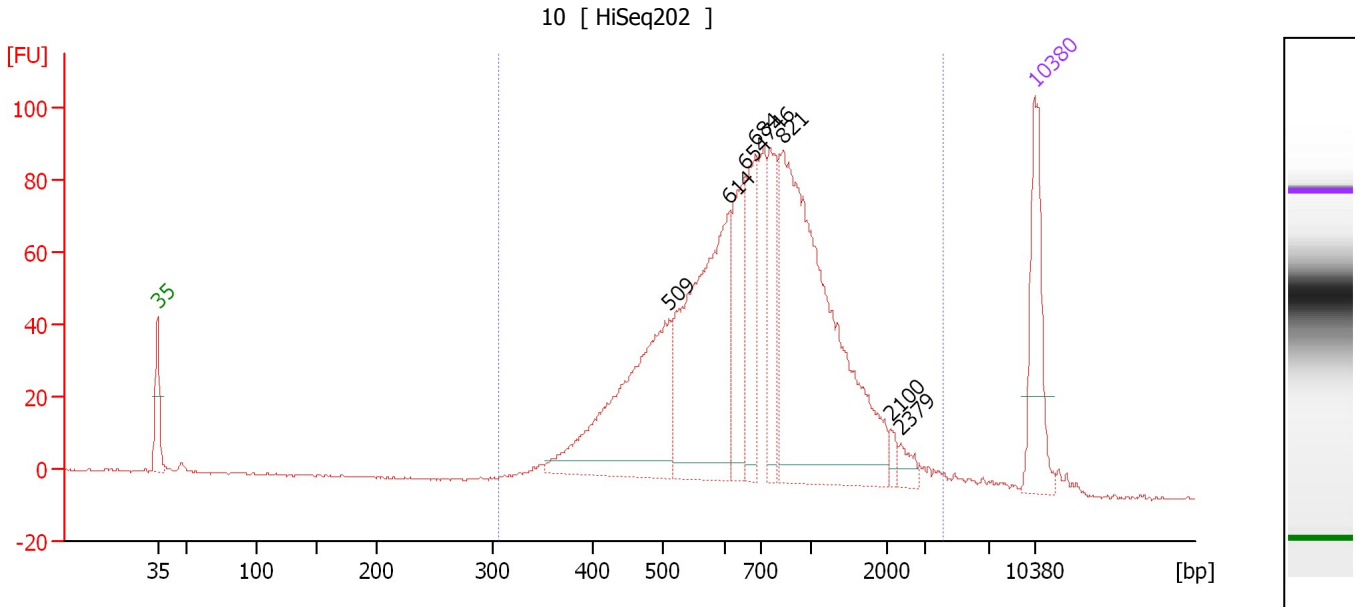
Region table for sample 6 : 24 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
240	475	1,544	1,952.3	6,934.7	92	26.0	2,036.19

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 10

Number of peaks found: 8 Corr. Area 1: 1,569.4
 Noise: 0.3

Peak table for sample 7 : 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	509	261.93	779.0		83.84
3	614	283.46	699.6		88.65
4	654	96.72	224.2		89.84
5	684	83.82	185.7		90.75
6	746	76.24	154.8		91.84
7	821	437.34	806.7		92.84
8	2,100	7.66	5.5		101.47
9	2,379	11.67	7.4		102.33
10	10,380	75.00	10.9	Upper Marker	113.00

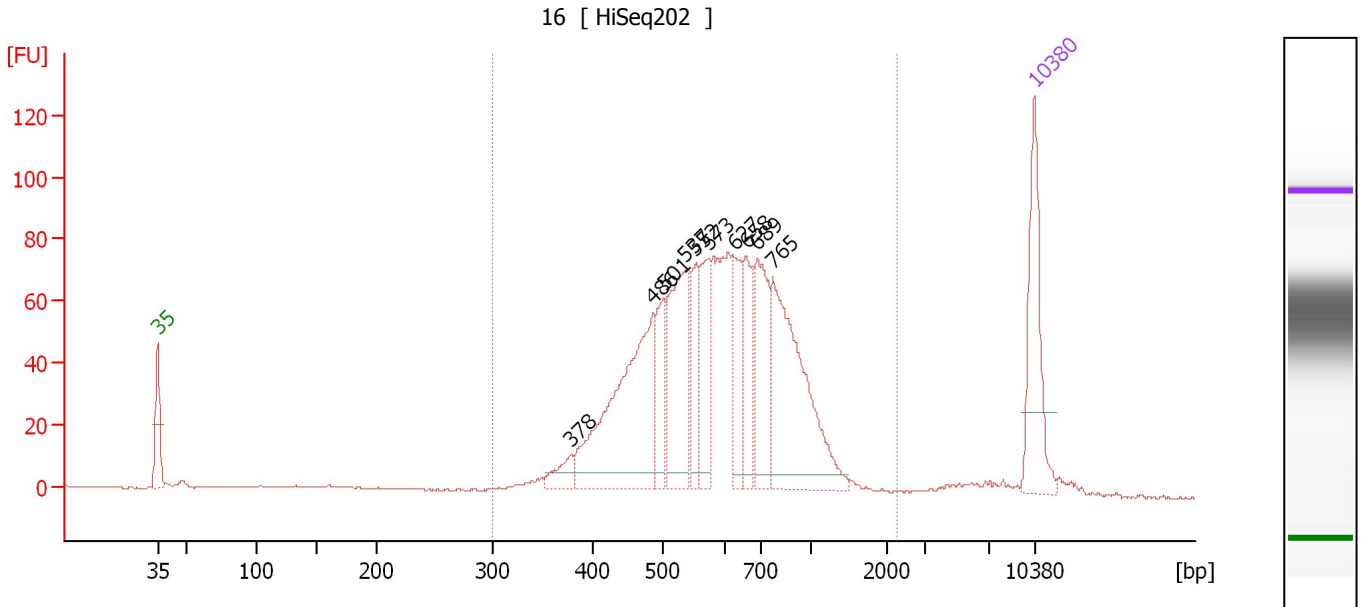
Region table for sample 7 : 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
306	833	4,177	1,569.4	3,243.0	97	56.8	1,400.87

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 16

Number of peaks found: 10 Corr. Area 1: 1,362.2
 Noise: 0.2

Peak table for sample 8 : 16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	378	21.34	85.5		76.01
3	486	228.84	713.9		82.57
4	501	50.44	152.5		83.43
5	537	127.62	360.4		85.15
6	552	49.20	135.0		85.92
7	573	62.70	165.8		86.92
8	627	50.91	123.1		89.03
9	658	60.55	139.3		89.99
10	689	88.00	193.5		90.89
11	765	192.84	382.0		92.09
12	10,380	75.00	10.9	Upper Marker	113.00

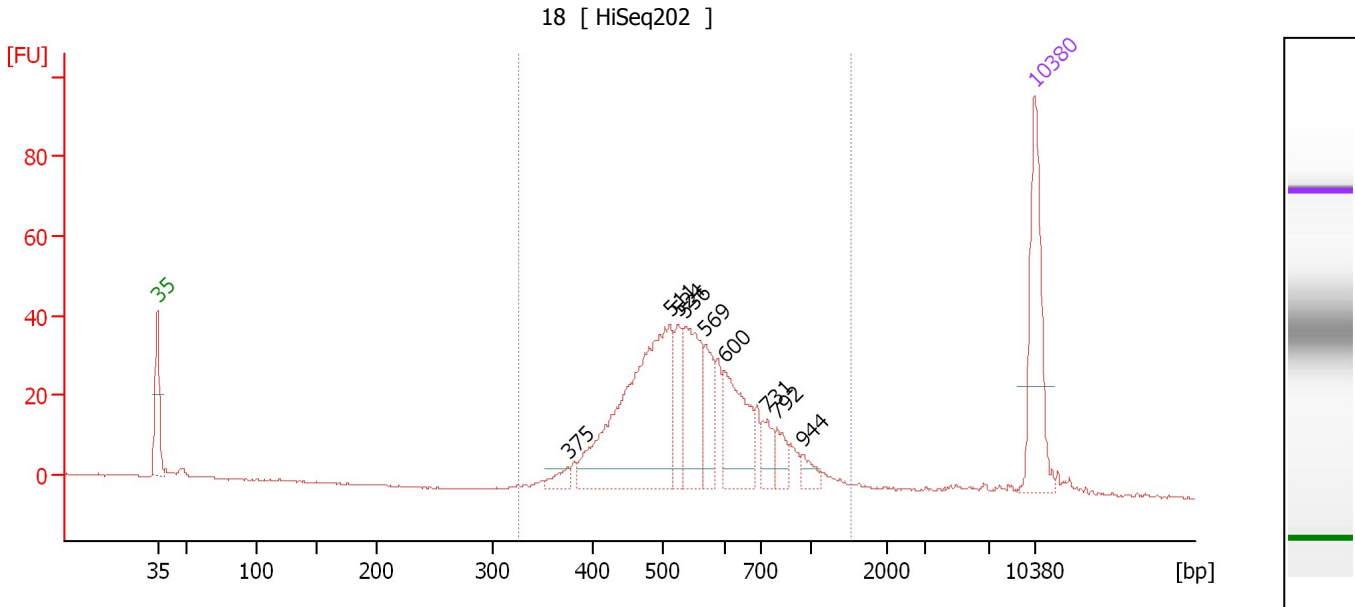
Region table for sample 8 : 16

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
300	633	2,256	1,362.2	3,027.9	95	32.9	1,139.39

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 18

Number of peaks found: 9 Corr. Area 1: 570.2
 Noise: 0.2

Peak table for sample 9 : 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	375	10.81	43.7		75.76
3	511	252.24	748.5		83.89
4	524	38.83	112.2		84.57
5	536	83.10	234.7		85.14
6	569	37.06	98.7		86.73
7	600	73.90	186.7		88.22
8	731	20.09	41.6		91.64
9	792	15.50	29.6		92.46
10	944	10.26	16.5		94.48
11	10,380	75.00	10.9	Upper Marker	113.00

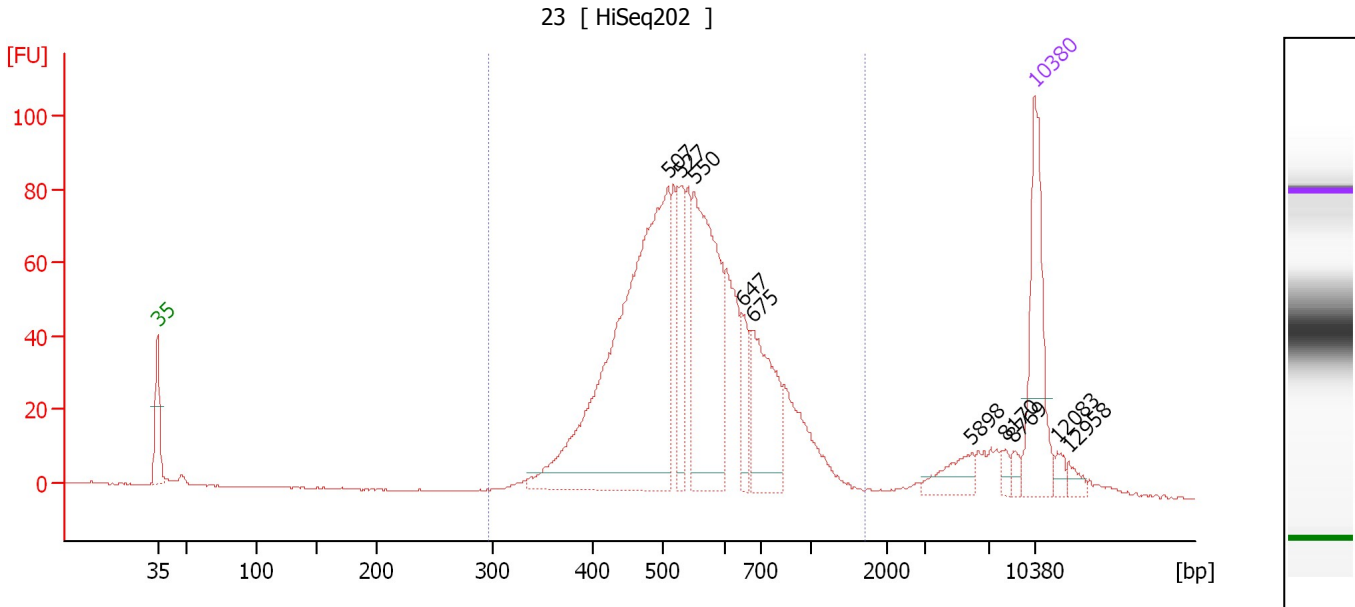
Region table for sample 9 : 18

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
326	573	1,526	570.2	1,716.2	94	27.1	606.08

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 23

Number of peaks found: 10 Corr. Area 1: 1,226.4
 Noise: 0.1

Peak table for sample 10 : 23

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	507	450.36	1,344.6		83.74
3	527	59.90	172.1		84.71
4	550	196.35	540.6		85.82
5	647	28.28	66.2		89.65
6	675	91.27	204.9		90.47
7	5,898	21.34	5.5		108.01
8	8,170	5.83	1.1		110.67
9	8,769	5.44	0.9		111.30
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,083	0.00	0.0		114.79
12	12,958	0.00	0.0		115.71

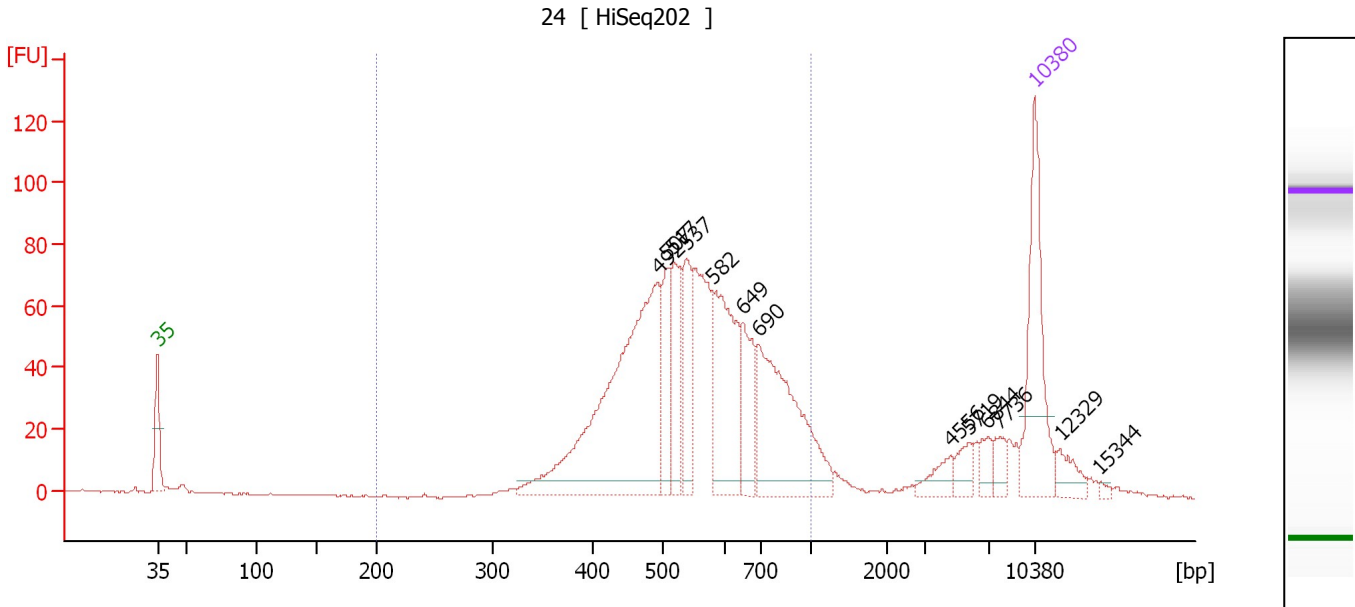
Region table for sample 10 : 23

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
296	569	1,714	1,226.4	3,030.5	92	27.5	1,057.72

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 24

Number of peaks found: 13 Corr. Area 1: 1,185.9
 Noise: 0.3

Peak table for sample 11 : 24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	492	299.98	923.7		82.93
3	507	44.42	132.8		83.71
4	517	58.11	170.3		84.20
5	537	53.68	151.5		85.18
6	582	107.52	279.8		87.37
7	649	50.19	117.1		89.72
8	690	146.09	320.7		90.94
9	4,556	14.32	4.8		106.26
10	5,719	12.67	3.4		107.78
11	6,844	10.21	2.3		109.24
12	7,736	10.14	2.0		110.22
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,329	0.00	0.0		115.05
15	15,344	0.00	0.0		118.22

Region table for sample 11 : 24

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	568	1,000	1,185.8	2,389.9	86	23.8	838.18

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-23\2015-09-23_001.xad

Created: 9/23/2015 8:45:33 AM
Modified: 9/23/2015 9:26:53 AM

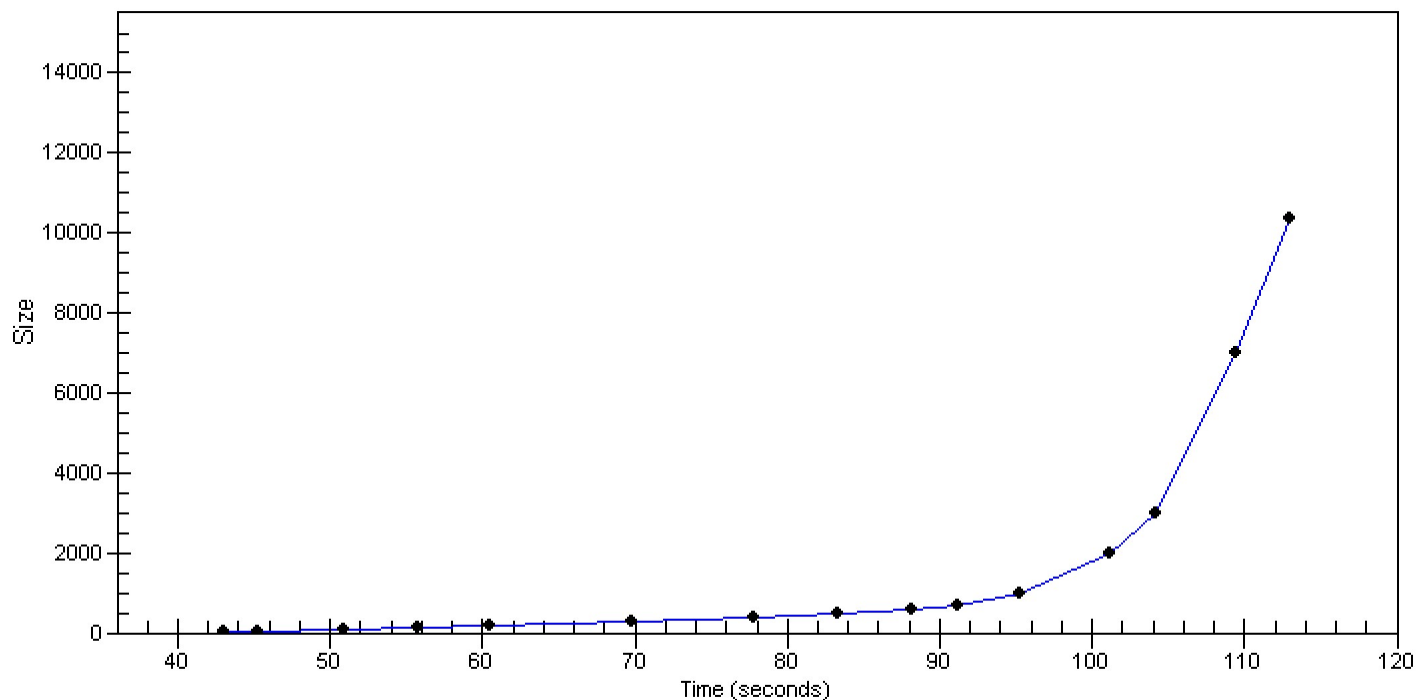
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-23\2015-09-23_001.xad

Created: 9/23/2015 8:45:33 AM
Modified: 9/23/2015 9:26:53 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-23\2015-09-23_001.xad

Created: 9/23/2015 8:45:33 AM
 Modified: 9/23/2015 9:26:53 AM

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		9/23/2015 9:26:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-09-23\2015-09-23_001.xad)		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/23/2015 8:45:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1