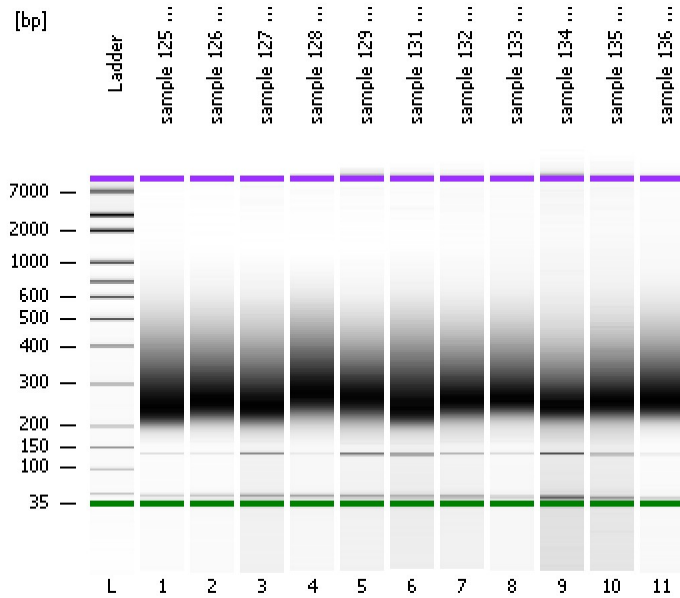


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
Modified: 3/16/2016 3:35:49 PM

Electrophoresis File Run Summary



Instrument Information:

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

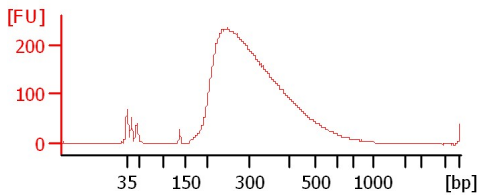
Assay Information:

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

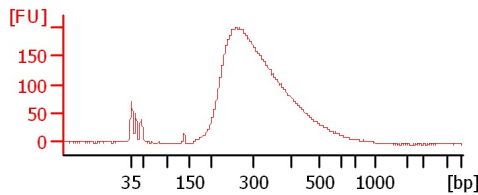
Chip Information:

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

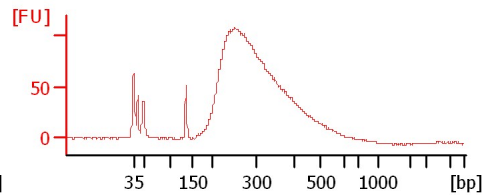
sample 125 ill-2



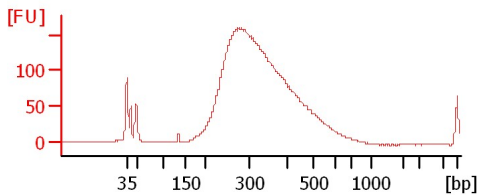
sample 126 ill-4



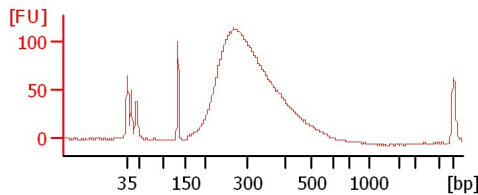
sample 127 ill-5



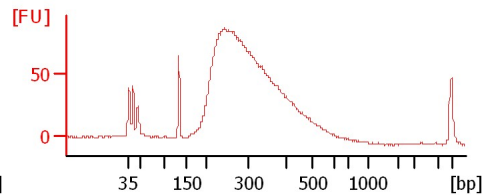
sample 128 ill-6



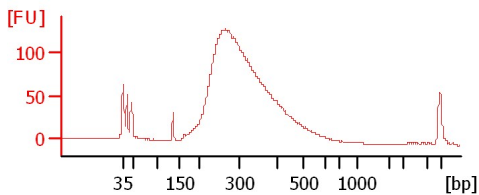
sample 129 ill-7



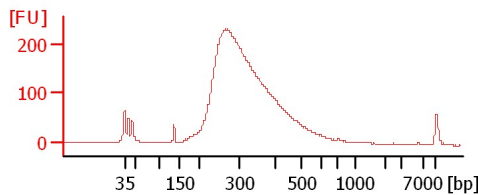
sample 131 ill-12



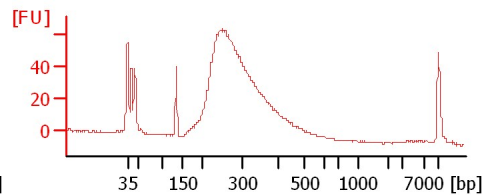
sample 132 ill-13



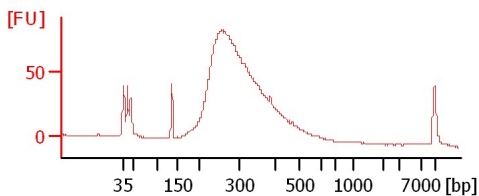
sample 133 ill-14



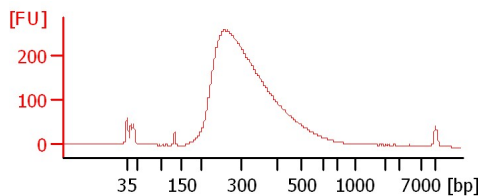
sample 134 ill-15



sample 135 ill-16



sample 136 ill-18



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 125 ill-2		<input type="checkbox"/>	✓			
sample 126 ill-4		<input type="checkbox"/>	✓			
sample 127 ill-5		<input type="checkbox"/>	✓			
sample 128 ill-6		<input type="checkbox"/>	✓			
sample 129 ill-7		<input type="checkbox"/>	✓			
sample 131 ill-12		<input type="checkbox"/>	✓			
sample 132 ill-13		<input type="checkbox"/>	✓			
sample 133 ill-14		<input type="checkbox"/>	✓			
sample 134 ill-15		<input type="checkbox"/>	✓			
sample 135 ill-16		<input type="checkbox"/>	✓			
sample 136 ill-18		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
Modified: 3/16/2016 3:35:49 PM

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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

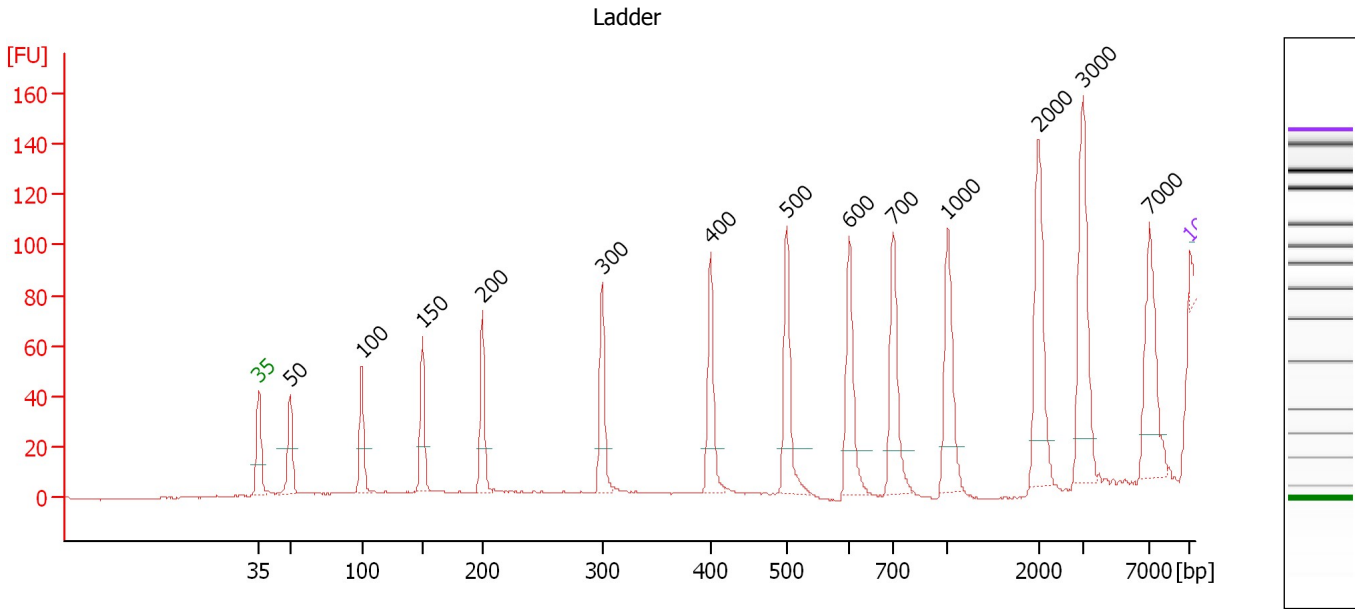
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

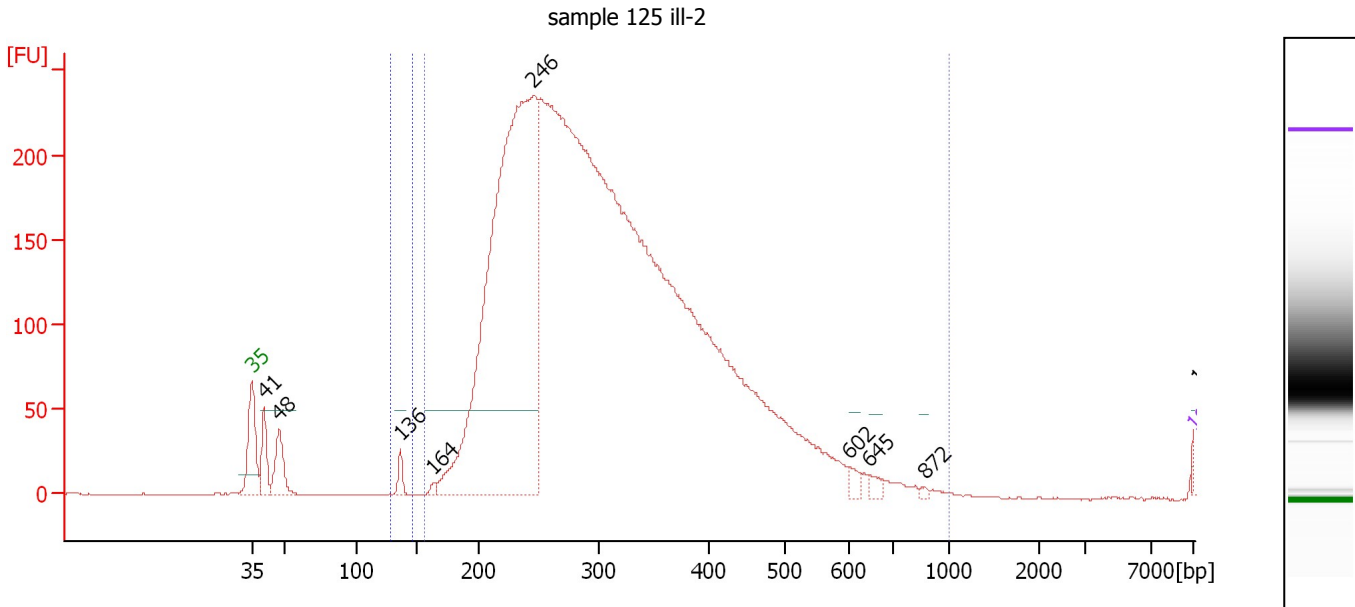
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.74
4	150	150.00	1,515.2	Ladder Peak	55.27
5	200	150.00	1,136.4	Ladder Peak	59.80
6	300	150.00	757.6	Ladder Peak	68.82
7	400	150.00	568.2	Ladder Peak	76.96
8	500	150.00	454.5	Ladder Peak	82.69
9	600	150.00	378.8	Ladder Peak	87.38
10	700	150.00	324.7	Ladder Peak	90.67
11	1,000	150.00	227.3	Ladder Peak	94.80
12	2,000	150.00	113.6	Ladder Peak	101.61
13	3,000	150.00	75.8	Ladder Peak	104.94
14	7,000	150.00	32.5	Ladder Peak	109.95
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : sample 125 ill-2

Height Threshold [FU] : 50 Width Threshold [s] : 40

Overall Results for sample 1 : sample 125 ill-2

Number of peaks found: 9 Corr. Area 1: 5,539.1
 Noise: 0.3 Corr. Area 2: 18.6

Peak table for sample 1 : sample 125 ill-2

Pea k	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	41	3,330.71	123,726.3		43.91
3	48	3,891.68	123,270.1		45.02
4	136	1,103.92	12,266.5		54.03
5	164	391.49	3,627.7		56.49
6	246	76,194.77	469,199.7		63.95
7	602	713.99	1,797.3		87.44
8	645	595.42	1,397.9		88.87
9	872	179.48	311.8		93.04
10	10,380	75.00	10.9	Upper Marker	113.00
11	10,688	0.00	0.0		113.28

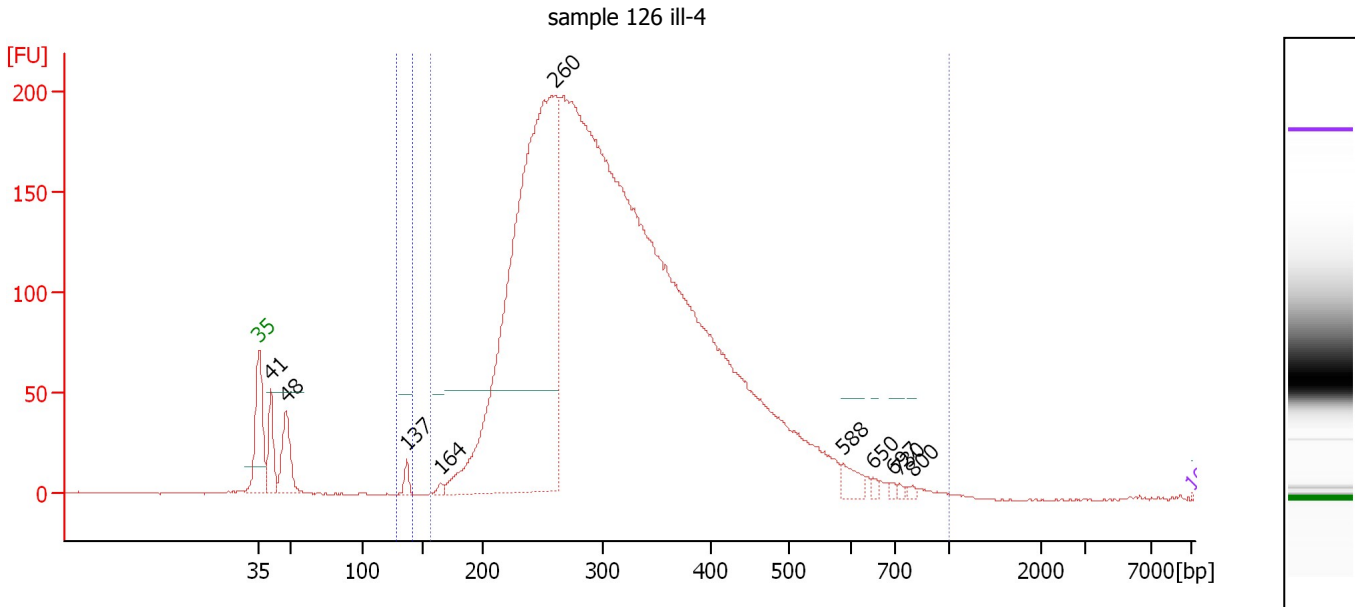
Region table for sample 1 : sample 125 ill-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	146	136	18.6	11,470.1	1,032.81	0	1.1
157	1,000	316	5,539.1	1,316,481.9	248,141.56	98	30.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

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 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : sample 126 ill-4

Height Threshold [FU] : 50

Overall Results for sample 2 : sample 126 ill-4

Number of peaks found: 10 Corr. Area 1: 4,337.9
 Noise: 0.3 Corr. Area 2: 12.3

Peak table for sample 2 : sample 126 ill-4

Pea k	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	41	0.00	0.0		43.88
3	48	0.00	0.0		45.04
4	137	0.00	0.0		54.08
5	164	0.00	0.0		56.56
6	260	0.00	0.0		65.24
7	588	0.00	0.0		86.84
8	650	0.00	0.0		89.04
9	697	0.00	0.0		90.56
10	730	0.00	0.0		91.08
11	800	0.00	0.0		92.04
12	10,380	75.00	10.9	Upper Marker	113.00

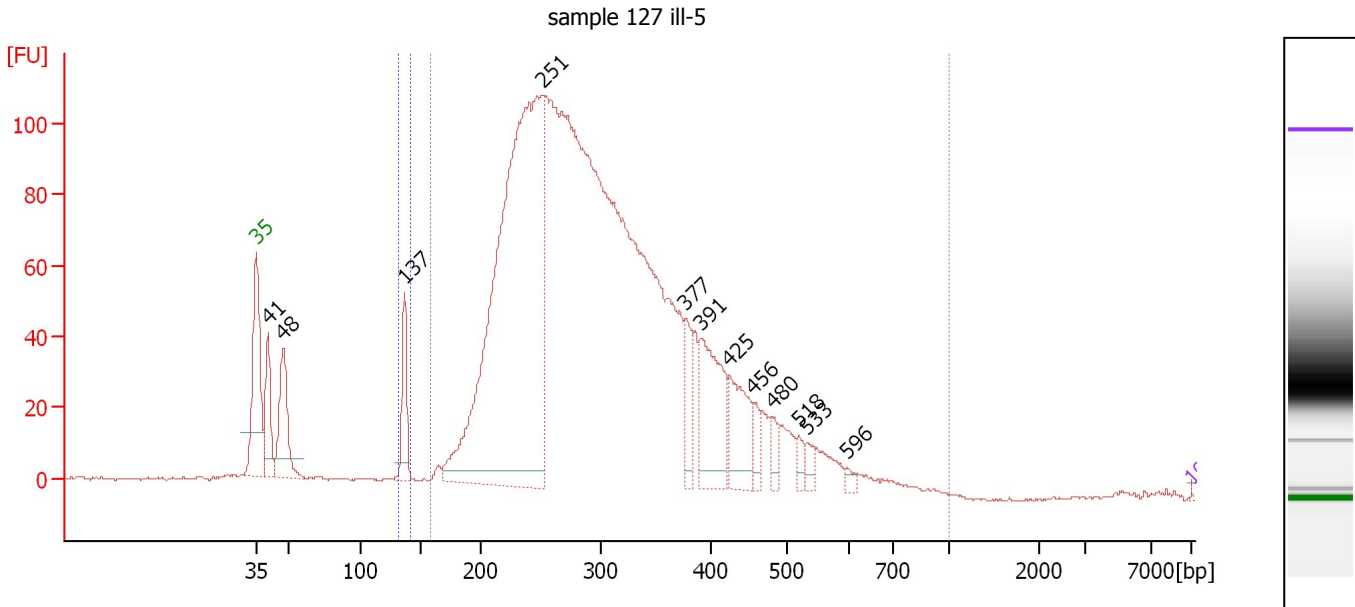
Region table for sample 2 : sample 126 ill-4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co lor [pg/μl]	% of Total	Size distribution in CV [%]
129	142	137	12.3	0.0	0.00	0	1.2
157	1,000	323	4,337.9	0.0	0.00	97	29.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 127 ill-5

Number of peaks found: 13 Corr. Area 1: 2,441.7
 Noise: 0.4 Corr. Area 2: 42.9

Peak table for sample 3 : sample 127 ill-5

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	41	0.00	0.0		43.88
3	48	0.00	0.0		44.99
4	137	0.00	0.0		54.09
5	251	0.00	0.0		64.42
6	377	0.00	0.0		75.07
7	391	0.00	0.0		76.19
8	425	0.00	0.0		78.42
9	456	0.00	0.0		80.17
10	480	0.00	0.0		81.57
11	518	0.00	0.0		83.52
12	533	0.00	0.0		84.24
13	596	0.00	0.0		87.19
14	11,442	0.00	0.0		113.96
15	10,380	75.00	10.9	Upper Marker	113.00

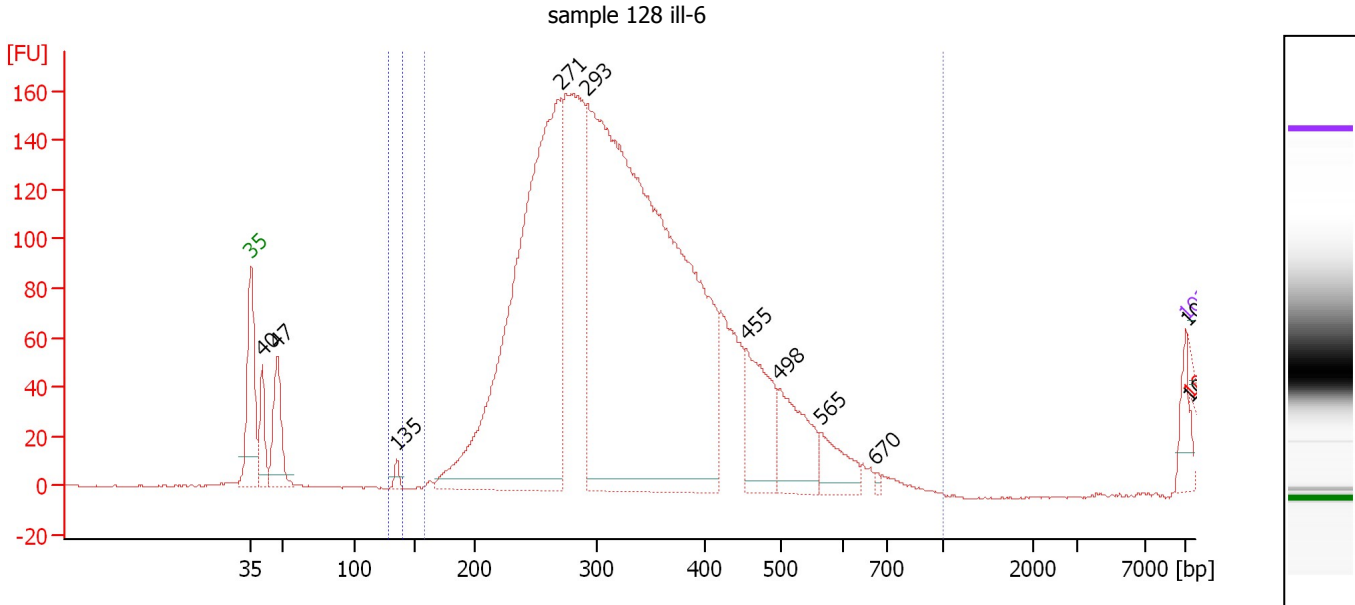
Region table for sample 3 : sample 127 ill-5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
132	142	137	42.9	0.0	0.00	2	1.3
159	1,000	313	2,441.7	0.0	0.00	92	29.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 128 ill-6

Number of peaks found: 12 Corr. Area 1: 2,793.4
 Noise: 0.3 Corr. Area 2: 0.0

Peak table for sample 4 : sample 128 ill-6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		3.51
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	189.96	7,138.8		43.84
4	47	306.36	9,791.2		44.96
5	135	29.13	327.2		53.90
6	271	2,711.03	15,134.3		66.24
7	293	4,554.59	23,544.3		68.20
8	455	375.55	1,251.3		80.10
9	498	295.52	899.2		82.57
10	565	144.85	388.6		85.73
11	670	10.94	24.8		89.68
12	10,380	75.00	10.9	Upper Marker	113.00
13	10,424	0.00	0.0		113.04
14	10,601	0.00	0.0	excluded peak	113.20
15	10,734	0.00	0.0		113.32

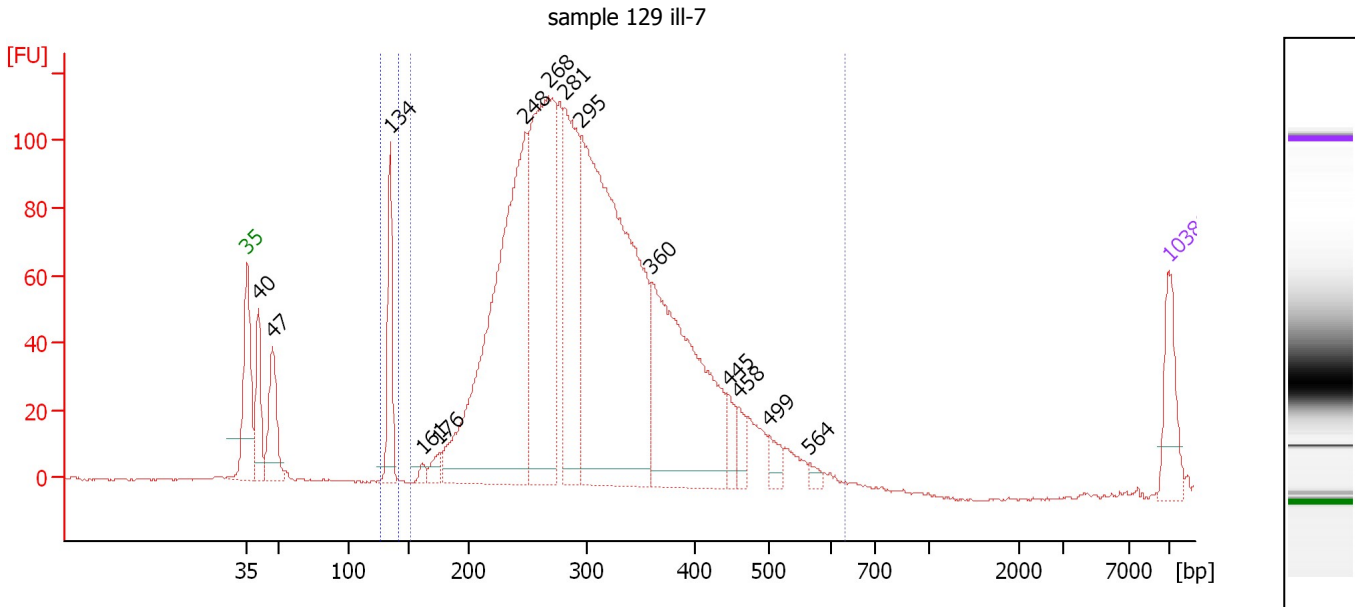
Region table for sample 4 : sample 128 ill-6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	140	0	0.0	0.0	0.00	0	0.0
158	1,000	318	2,793.4	35,432.6	7,054.88	96	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 129 ill-7

Number of peaks found: 14 Corr. Area 1: 2,269.6
 Noise: 0.3 Corr. Area 2: 73.8

Peak table for sample 5 : sample 129 ill-7

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	40	139.14	5,219.1		43.85
3	47	166.98	5,345.4		44.94
4	134	184.43	2,078.8		53.86
5	161	15.15	142.3		56.29
6	176	29.40	253.7		57.58
7	248	1,069.21	6,527.2		64.15
8	268	766.70	4,342.6		65.89
9	281	424.26	2,287.8		67.10
10	295	1,281.74	6,575.4		68.40
11	360	625.07	2,630.4		73.71
12	445	43.91	149.5		79.54
13	458	34.16	112.9		80.31
14	499	32.94	99.9		82.66
15	564	13.46	36.2		85.70
16	10,380	75.00	10.9	Upper Marker	113.00

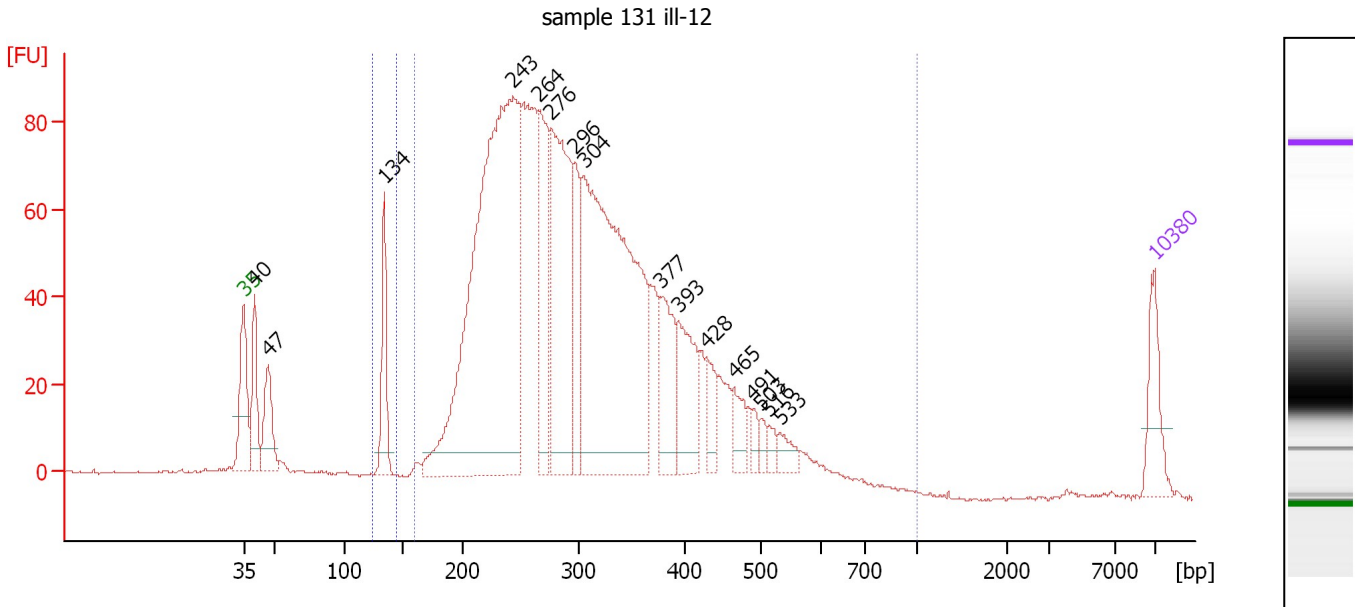
Region table for sample 5 : sample 129 ill-7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
127	142	134	73.8	1,969.3	174.55	3	1.2
152	630	308	2,269.6	22,761.9	4,319.45	92	23.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 131 ill-12

Number of peaks found: 16 Corr. Area 1: 2,090.3
 Noise: 0.3 Corr. Area 2: 56.6

Peak table for sample 6 : sample 131 ill-12

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	40	150.25	5,627.5		43.86
3	47	137.04	4,422.7		44.88
4	134	164.33	1,858.9		53.81
5	243	1,571.20	9,793.4		63.68
6	264	294.82	1,689.3		65.61
7	276	530.55	2,914.9		66.63
8	296	167.28	855.7		68.48
9	304	1,119.83	5,574.8		69.17
10	377	155.41	624.9		75.07
11	393	168.39	649.3		76.38
12	428	62.82	222.5		78.55
13	465	57.25	186.5		80.68
14	491	22.22	68.5		82.20
15	503	17.53	52.8		82.81
16	516	21.23	62.4		83.43
17	533	32.05	91.1		84.25
18	10,380	75.00	10.9	Upper Marker	113.00

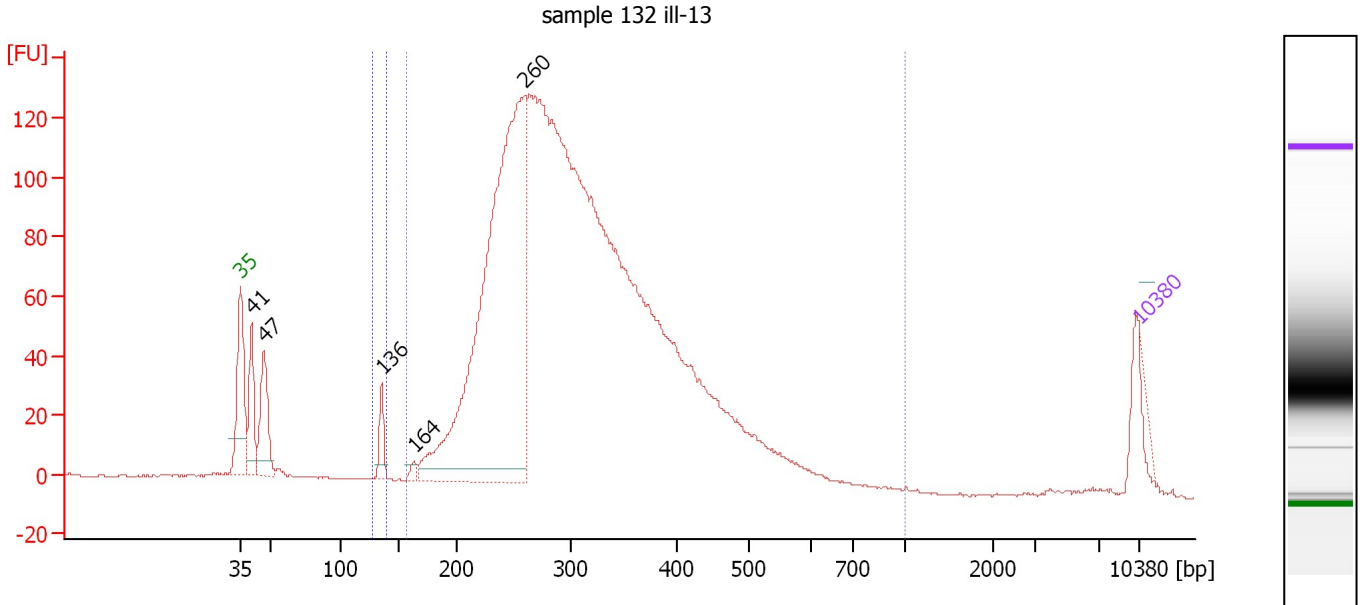
Region table for sample 6 : sample 131 ill-12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
125	145	134	56.6	2,020.4	178.46	2	1.9
160	1,000	316	2,090.3	28,161.2	5,298.28	91	30.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 132 ill-13

Number of peaks found: 5 Corr. Area 1: 2,700.0
 Noise: 0.3 Corr. Area 2: 26.1

Peak table for sample 7 : sample 132 ill-13

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	41	0.00	0.0		43.87
3	47	0.00	0.0		44.83
4	136	0.00	0.0		54.01
5	164	0.00	0.0		56.54
6	260	0.00	0.0		65.18
7	10,380	75.00	10.9	Upper Marker	113.00

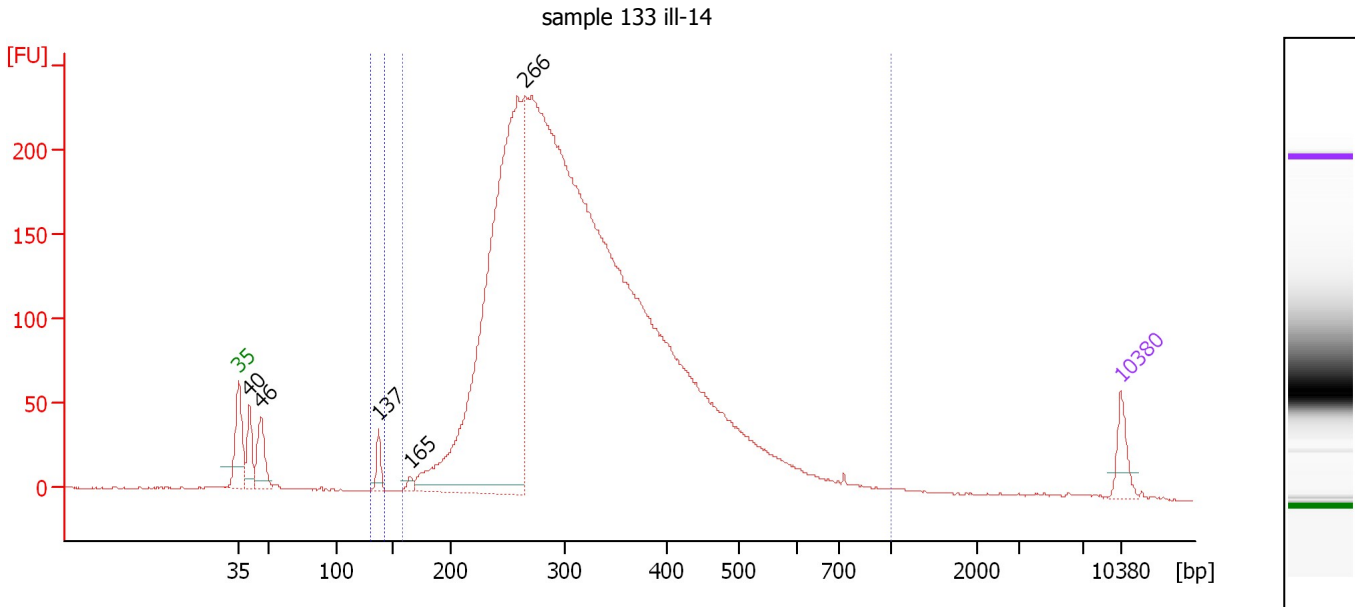
Region table for sample 7 : sample 132 ill-13

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	141	136	26.1	0.0	0.00	1	1.5
158	1,000	318	2,700.0	0.0	0.00	92	28.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 133 ill-14

Number of peaks found: 5 Corr. Area 1: 4,684.0
 Noise: 0.3 Corr. Area 2: 27.2

Peak table for sample 8 : sample 133 ill-14

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	40	167.51	6,287.5		43.85
3	46	212.86	7,010.5		44.74
4	137	75.82	835.8		54.13
5	165	23.64	217.1		56.63
6	266	3,160.70	18,022.5		65.73
7	10,380	75.00	10.9	Upper Marker	113.00

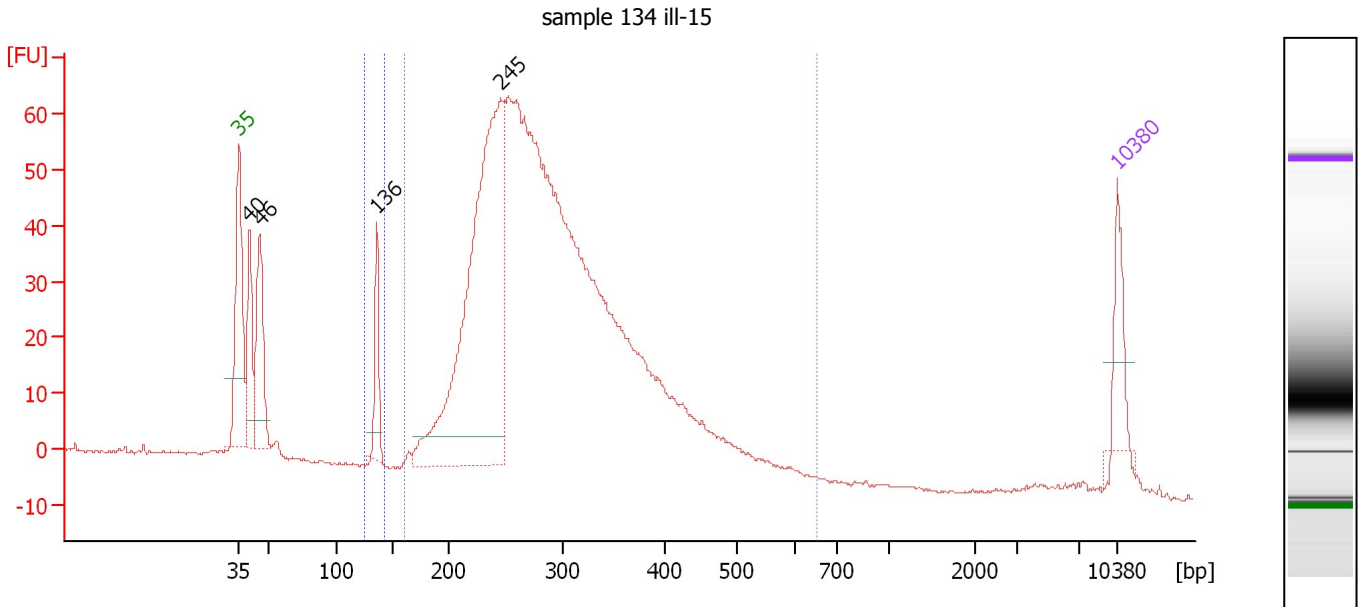
Region table for sample 8 : sample 133 ill-14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
130	143	137	27.2	877.0	79.33	1	1.3
158	1,000	330	4,684.0	54,903.8	10,865.64	95	29.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

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 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 134 ill-15

Number of peaks found: 4 Corr. Area 1: 1,174.6
 Noise: 0.2 Corr. Area 2: 30.8

Peak table for sample 9 : sample 134 ill-15

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	40	201.77	7,569.4		43.85
3	46	278.05	9,258.0		44.66
4	136	139.49	1,553.9		54.00
5	245	1,327.38	8,193.9		63.90
6	10,380	75.00	10.9	Upper Marker	113.00

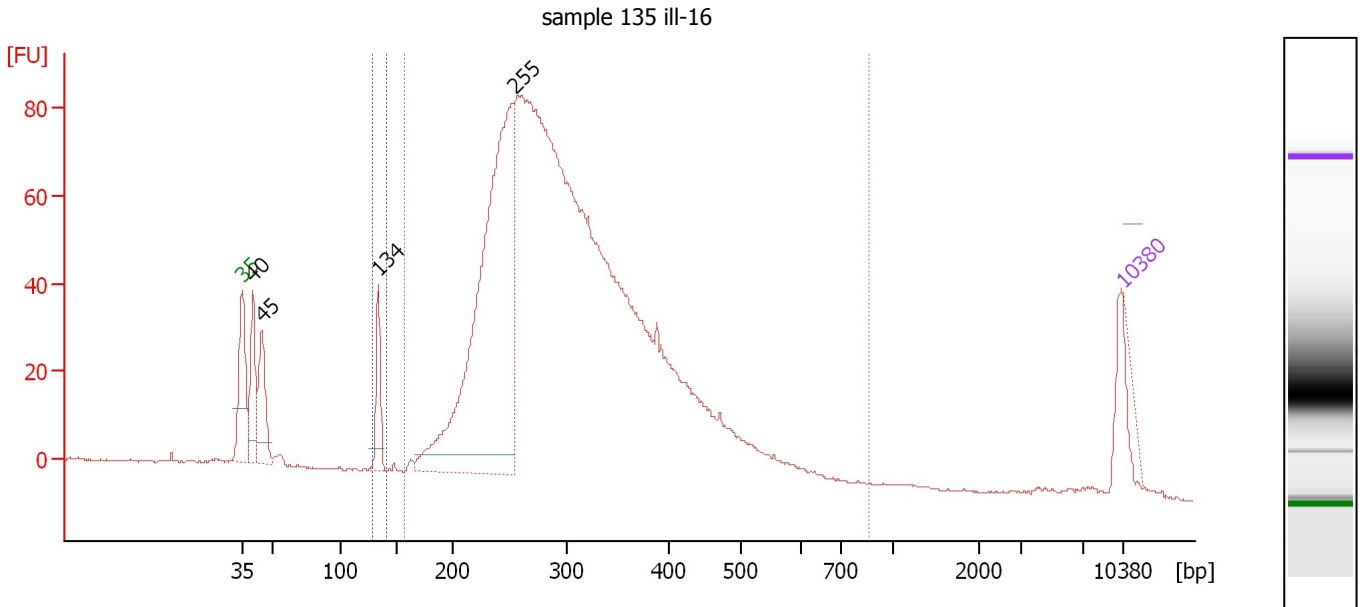
Region table for sample 9 : sample 134 ill-15

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
126	143	136	30.8	1,561.7	140.14	2	1.2
161	653	298	1,174.6	23,726.7	4,353.24	89	24.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 135 ill-16

Number of peaks found: 4 Corr. Area 1: 1,663.2
 Noise: 0.2 Corr. Area 2: 32.0

Peak table for sample 10 : sample 135 ill-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	40	0.00	0.0		43.81
3	45	0.00	0.0		44.53
4	134	0.00	0.0		53.82
5	255	0.00	0.0		64.72
6	10,380	75.00	10.9	Upper Marker	113.00

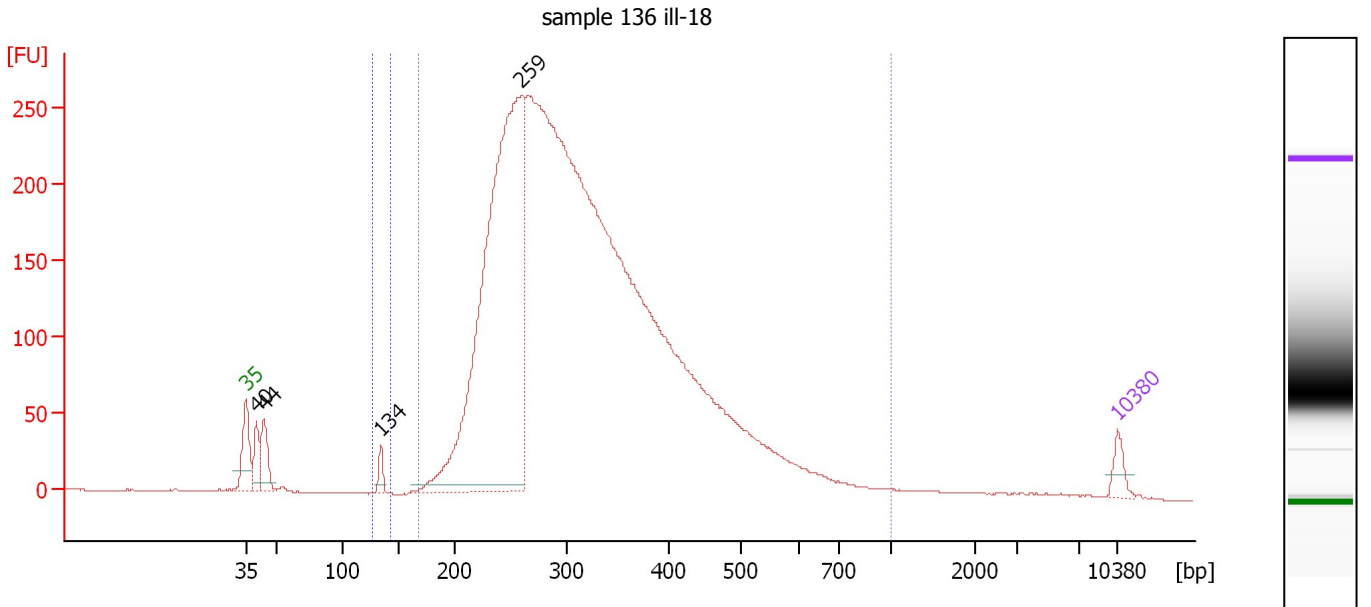
Region table for sample 10 : sample 135 ill-16

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
128	134	134	32.0	0.0	0.00	2	1.3
157	863	314	1,663.2	0.0	0.00	90	27.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 136 ill-18

Number of peaks found: 4 Corr. Area 1: 5,412.1
 Noise: 0.2 Corr. Area 2: 21.7

Peak table for sample 11 : sample 136 ill-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	40	218.51	8,243.5		43.81
3	44	288.97	9,958.7		44.41
4	134	86.36	974.8		53.84
5	259	5,054.15	29,586.1		65.11
6	10,380	75.00	10.9	Upper Marker	113.00

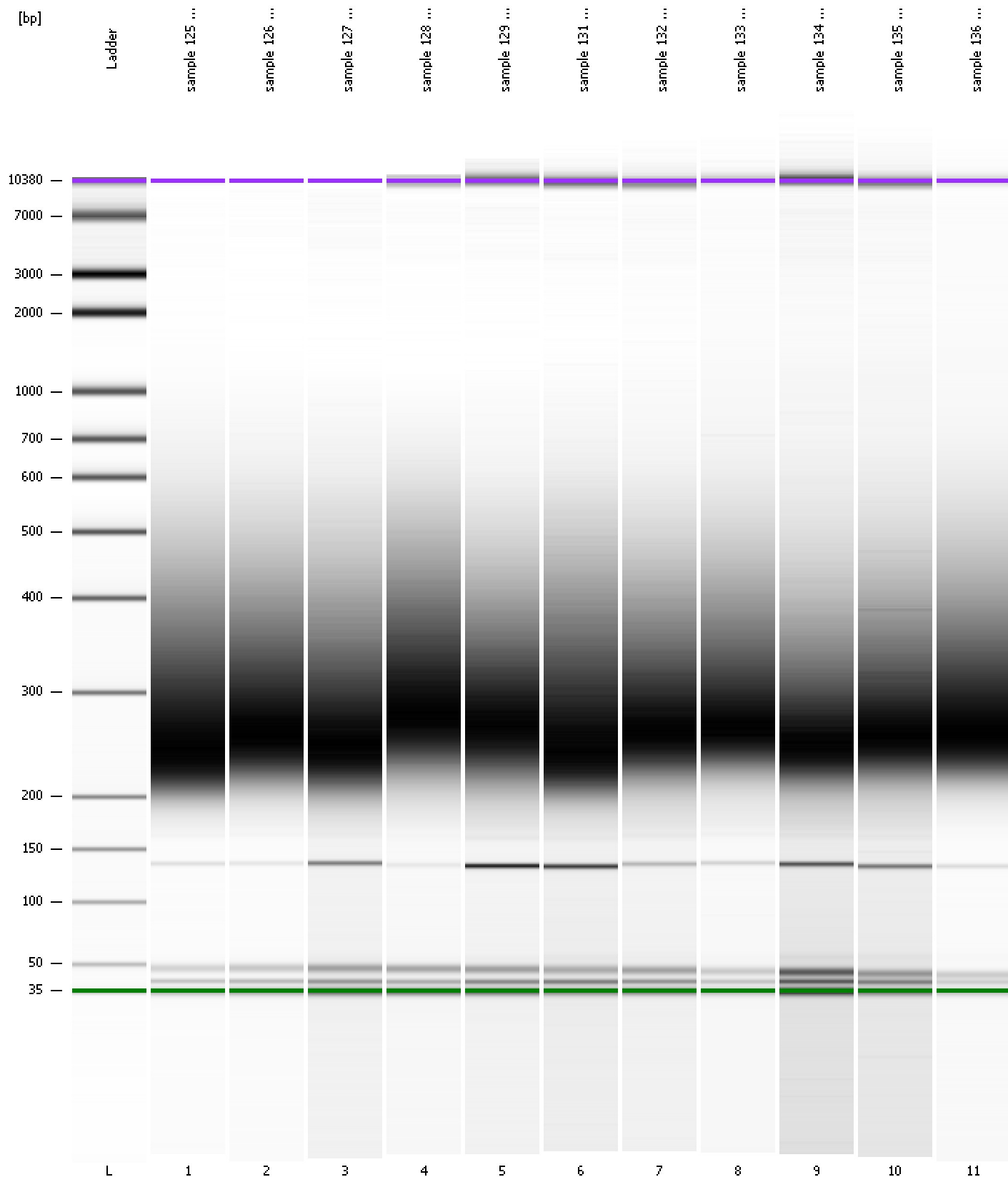
Region table for sample 11 : sample 136 ill-18

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
127	142	134	21.7	973.2	86.05	0	1.2
167	1,000	328	5,412.1	86,481.5	17,022.80	96	30.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
Modified: 3/16/2016 3:35:49 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_004.xad

Created: 3/16/2016 2:20:04 PM
 Modified: 3/16/2016 3:35:49 PM

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		3/16/2016 3:01:21 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\2016-03-16\2016-03-16_004.xad)		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/16/2016 2:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1