

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...xpert\data\2016-06-10\2016-06-10_001_HiSeq498_Libraries.xad

Created: 6/10/2016 9:25:47 AM
Modified: 6/10/2016 10:09:45 AM

Electrophoresis File Run Summary

Instrument Information:

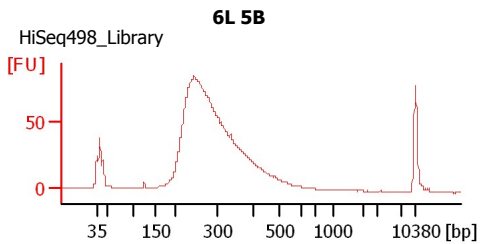
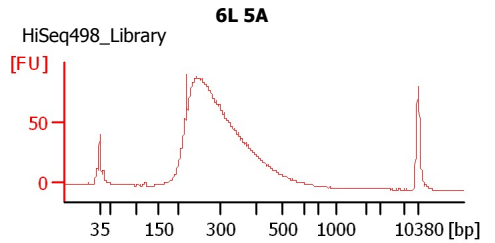
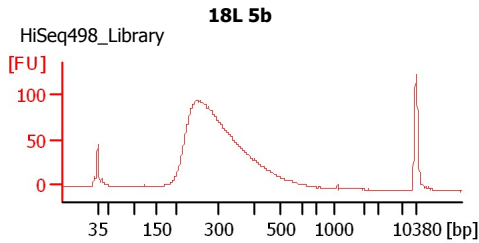
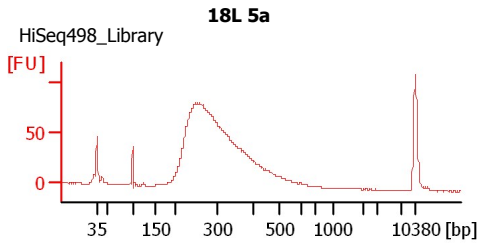
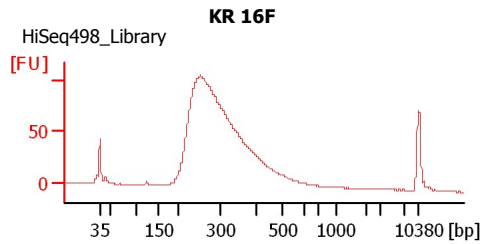
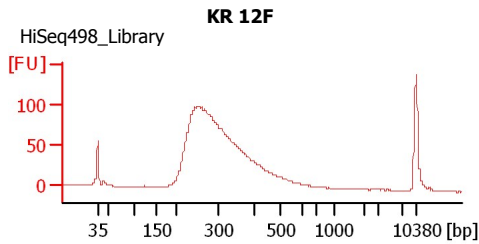
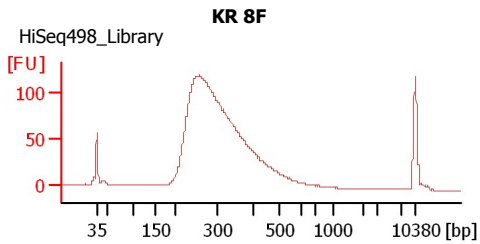
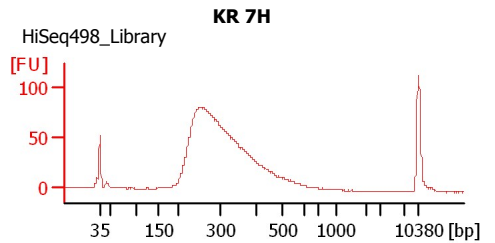
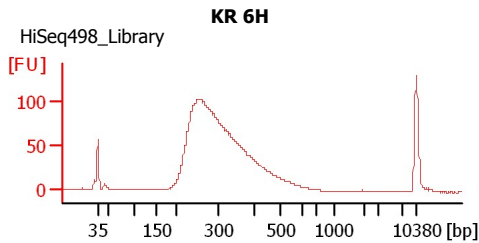
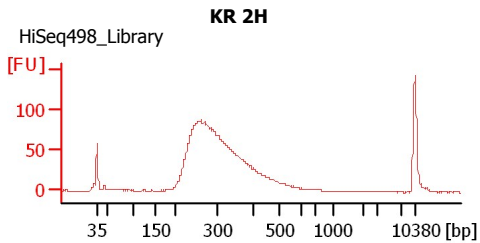
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
KR 2H	HiSeq498_Library	<input type="checkbox"/>	✓			
KR 6H	HiSeq498_Library	<input type="checkbox"/>	✓			
KR 7H	HiSeq498_Library	<input type="checkbox"/>	✓			
KR 8F	HiSeq498_Library	<input type="checkbox"/>	✓			
KR 12F	HiSeq498_Library	<input type="checkbox"/>	✓			
KR 16F	HiSeq498_Library	<input type="checkbox"/>	✓			
18L 5a	HiSeq498_Library	<input type="checkbox"/>	✓			
18L 5b	HiSeq498_Library	<input type="checkbox"/>	✓			
6L 5A	HiSeq498_Library	<input type="checkbox"/>	✓			
6L 5B	HiSeq498_Library	<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

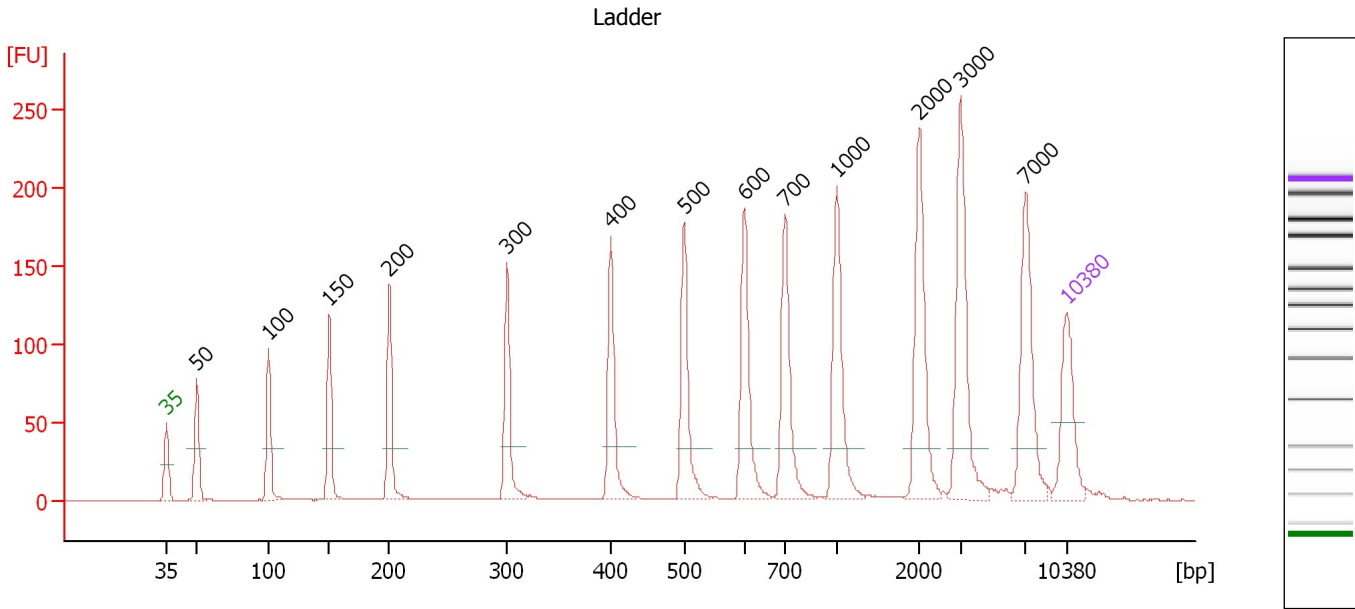
Ladder

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

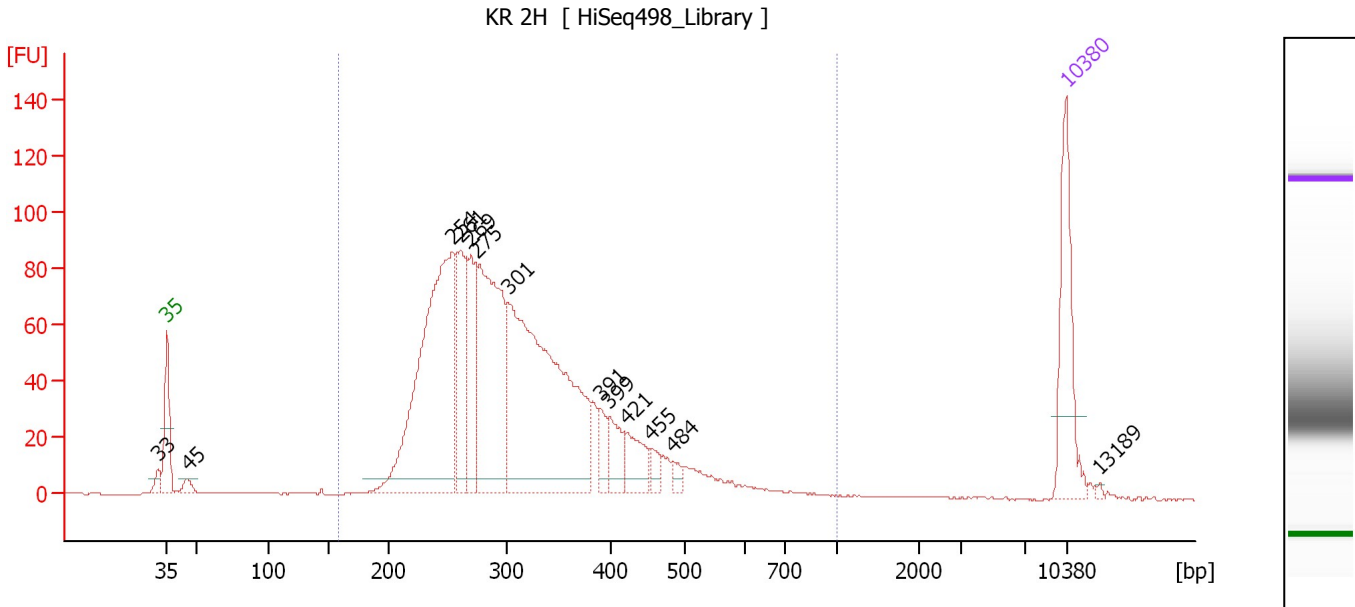
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.32
6	300	150.00	757.6	Ladder Peak	69.48
7	400	150.00	568.2	Ladder Peak	77.54
8	500	150.00	454.5	Ladder Peak	83.27
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	91.10
11	1,000	150.00	227.3	Ladder Peak	95.13
12	2,000	150.00	113.6	Ladder Peak	101.59
13	3,000	150.00	75.8	Ladder Peak	104.80
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : KR 2H

Number of peaks found: 13 Corr. Area 1: 1,638.8
 Noise: 0.2

Peak table for sample 1 : KR 2H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.35
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	11.76	392.9		44.61
4	254	398.12	2,375.5		65.26
5	261	95.93	556.9		65.90
6	269	85.65	482.4		66.64
7	275	260.37	1,436.9		67.15
8	301	443.92	2,236.1		69.54
9	391	23.77	92.2		76.78
10	399	32.04	121.6		77.47
11	421	37.19	133.7		78.76
12	455	13.68	45.6		80.70
13	484	9.04	28.3		82.35
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,189	0.00	0.0		115.63

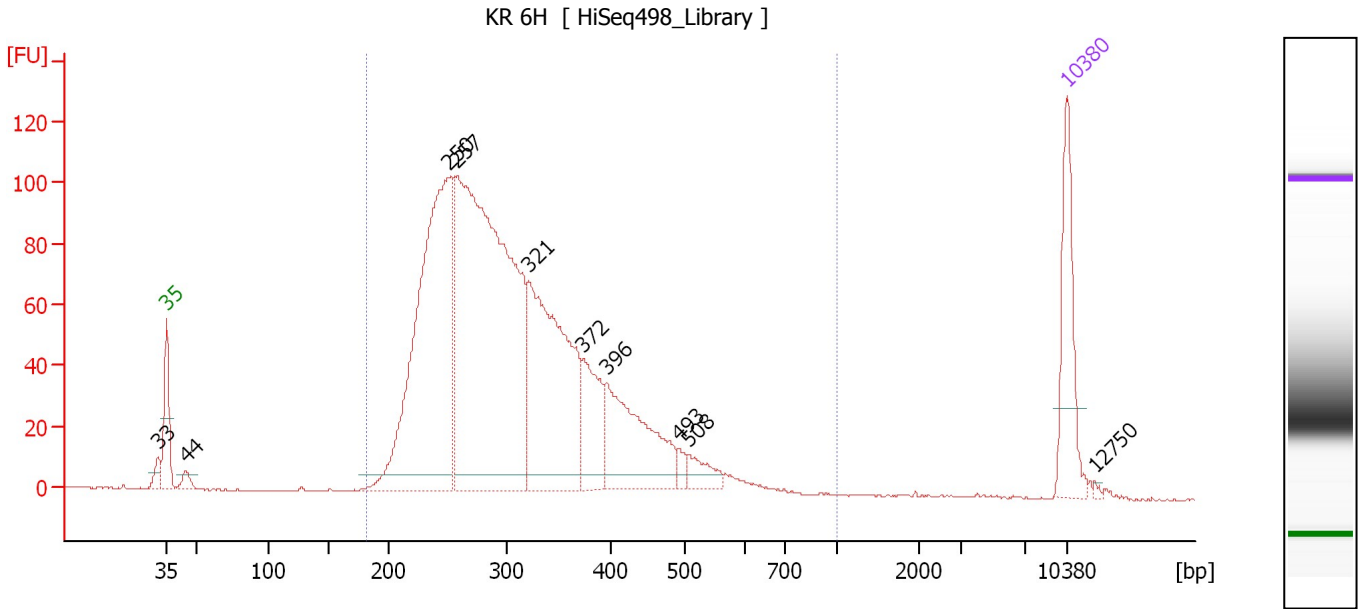
Region table for sample 1 : KR 2H

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
158	1,000	317	1,638.8	7,836.3	1,518.27	98	27.4

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Electropherogram Summary Continued ...



Overall Results for sample 2 : KR 6H

Number of peaks found: 10 Corr. Area 1: 1,967.8
 Noise: 0.2

Peak table for sample 2 : KR 6H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.31
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	14.42	491.1		44.48
4	250	553.58	3,356.7		64.89
5	257	814.93	4,796.3		65.58
6	321	334.15	1,577.6		71.17
7	372	85.90	349.4		75.32
8	396	158.09	605.0		77.22
9	493	10.14	31.2		82.85
10	508	24.58	73.3		83.63
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,750	0.00	0.0		115.22

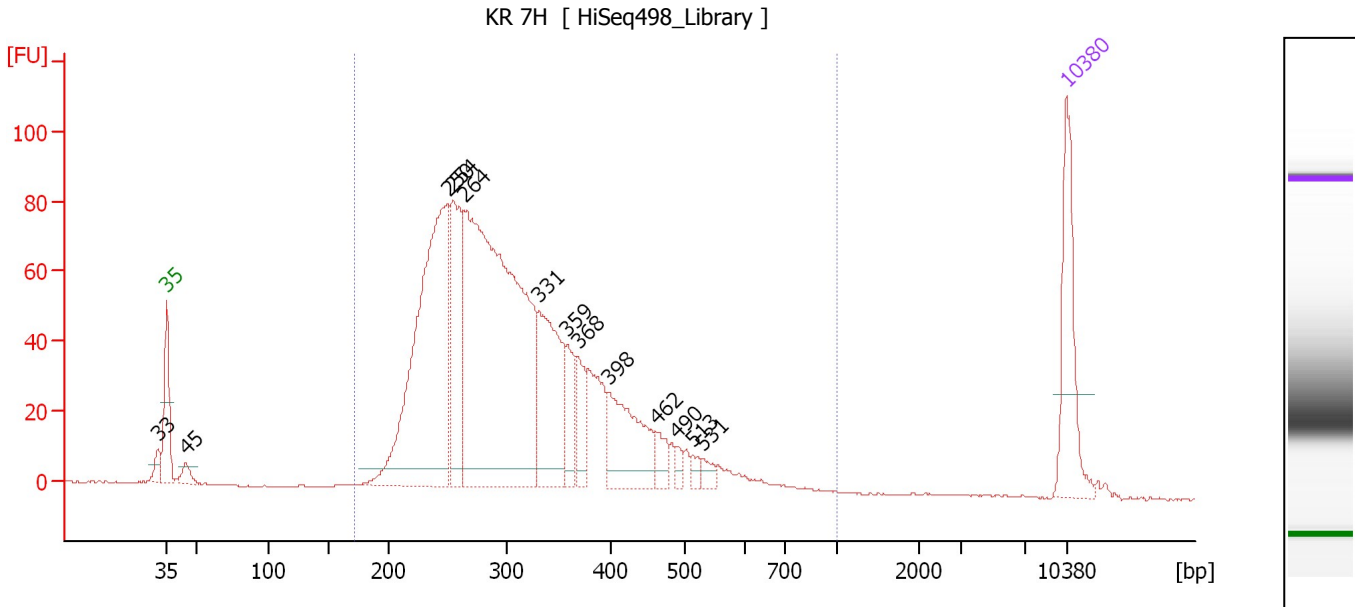
Region table for sample 2 : KR 6H

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
181	1,000	315	1,967.8	10,314.6	1,986.57	98	26.2

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Electropherogram Summary Continued ...



Overall Results for sample 3 : KR 7H

Number of peaks found: 13 Corr. Area 1: 1,587.4
 Noise: 0.2

Peak table for sample 3 : KR 7H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.35
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	15.46	525.4		44.49
4	250	440.28	2,669.3		64.89
5	254	153.45	913.6		65.31
6	264	680.35	3,902.6		66.19
7	331	156.17	715.1		71.97
8	359	45.23	191.1		74.20
9	368	40.28	165.7		75.00
10	398	104.16	396.6		77.37
11	462	19.09	62.6		81.10
12	490	8.71	26.9		82.68
13	513	8.67	25.6		83.89
14	531	10.76	30.7		84.73
15	10,380	75.00	10.9	Upper Marker	113.00

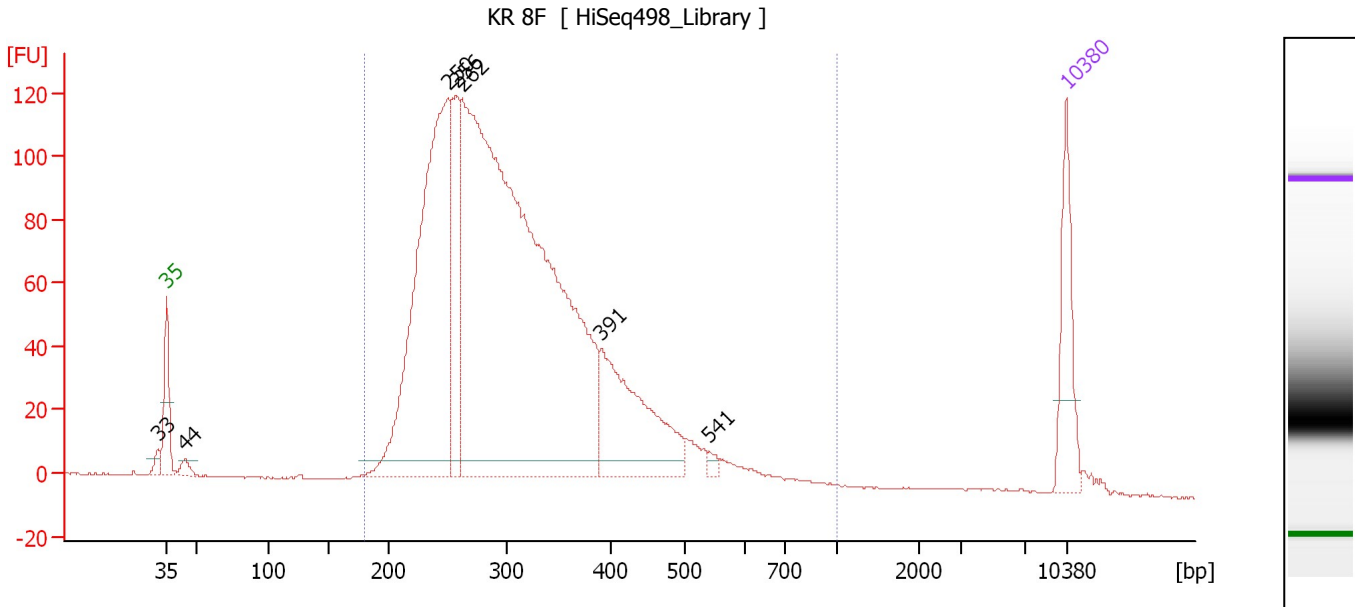
Region table for sample 3 : KR 7H

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
171	1,000	319	1,587.4	9,243.5	1,788.70	98	28.4

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Electropherogram Summary Continued ...



Overall Results for sample 4 : KR 8F

Number of peaks found: 7 Corr. Area 1: 2,312.4
 Noise: 0.1

Peak table for sample 4 : KR 8F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.34
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	14.77	507.7		44.41
4	250	677.74	4,103.2		64.92
5	256	148.33	876.4		65.49
6	262	1,601.28	9,275.8		65.96
7	391	222.33	861.3		76.82
8	541	7.63	21.4		85.20
9	10,380	75.00	10.9	Upper Marker	113.00

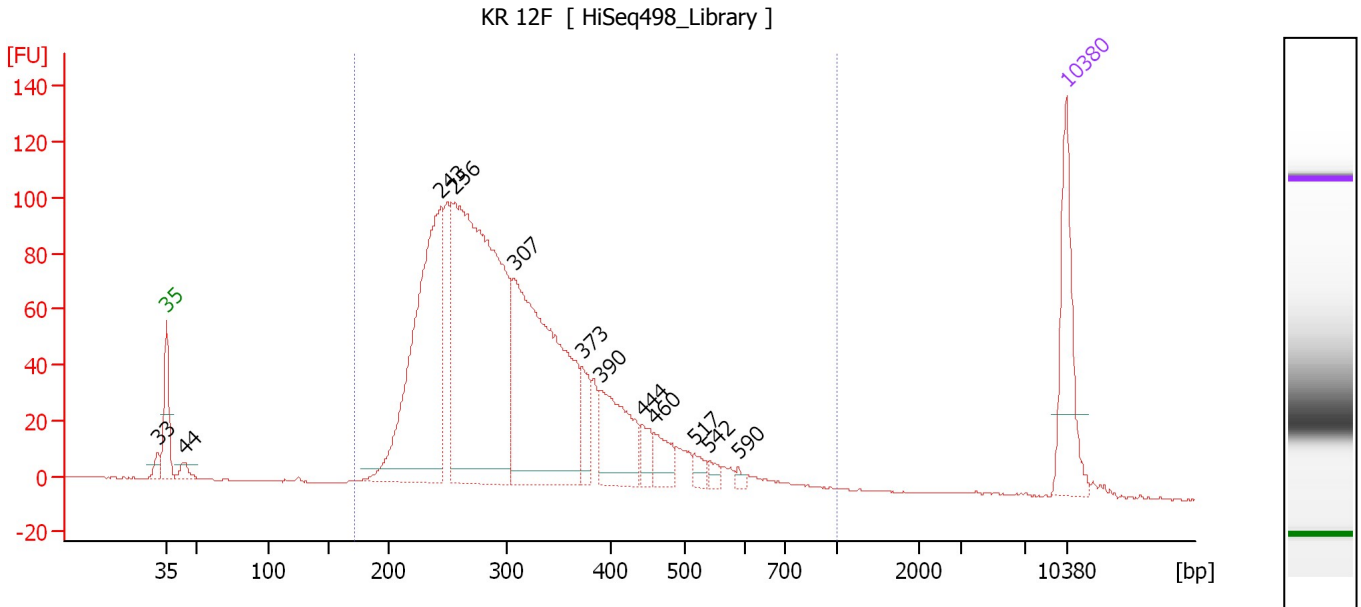
Region table for sample 4 : KR 8F

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
179	1,000	317	2,312.4	13,720.2	2,644.03	98	28.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...xpert\data\2016-06-10\2016-06-10_001_HiSeq498_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : KR 12F

Number of peaks found: 12 Corr. Area 1: 1,933.5
 Noise: 0.2

Peak table for sample 5 : KR 12F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.29
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	15.09	525.4		44.33
4	243	392.69	2,444.4		64.29
5	256	613.37	3,632.6		65.43
6	307	407.45	2,011.8		70.03
7	373	36.61	148.8		75.34
8	390	98.60	382.7		76.77
9	444	22.18	75.8		80.04
10	460	28.46	93.7		80.99
11	517	12.27	36.0		84.07
12	542	7.72	21.6		85.21
13	590	4.55	11.7		87.49
14	10,380	75.00	10.9	Upper Marker	113.00

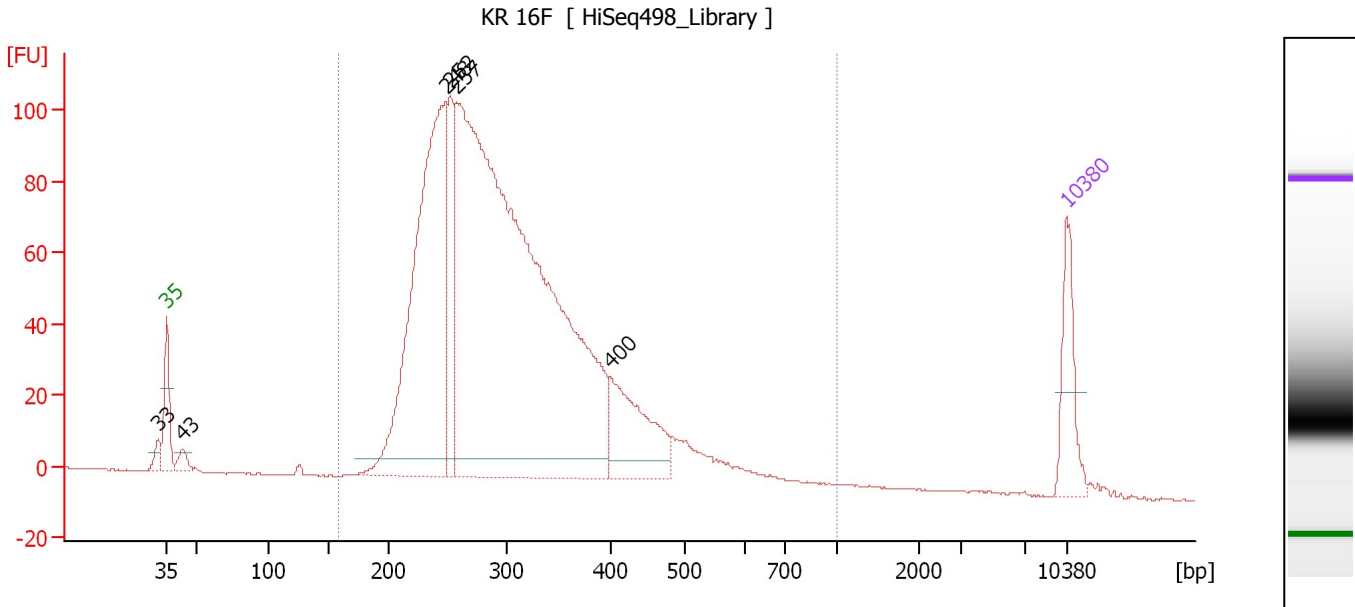
Region table for sample 5 : KR 12F

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
171	1,000	317	1,933.5	9,133.0	1,754.70	98	29.1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : KR 16F

Number of peaks found: 6 Corr. Area 1: 1,914.9
 Noise: 0.2

Peak table for sample 6 : KR 16F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.33
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	25.09	884.1		44.25
4	248	787.77	4,811.9		64.72
5	252	173.21	1,042.6		65.05
6	257	2,005.94	11,828.6		65.53
7	400	173.64	658.2		77.52
8	10,380	75.00	10.9	Upper Marker	113.00

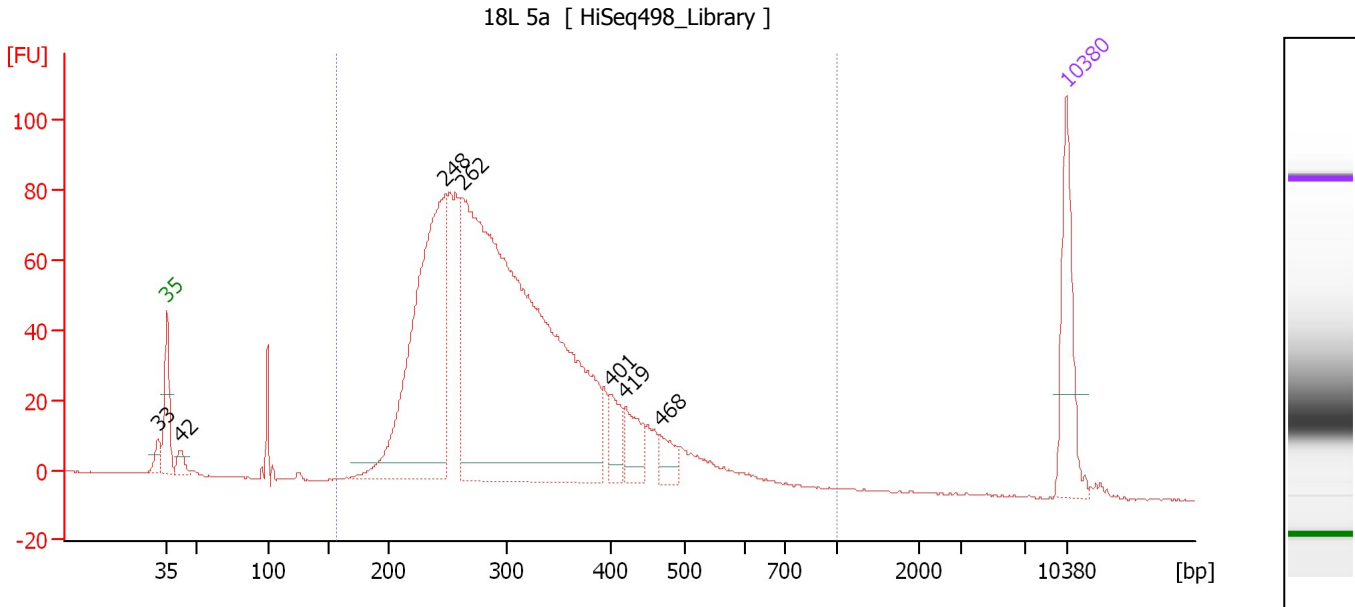
Region table for sample 6 : KR 16F

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
157	1,000	311	1,914.9	16,254.4	3,083.76	98	27.7

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 18L 5a

Number of peaks found: 7 Corr. Area 1: 1,535.9
 Noise: 0.1

Peak table for sample 7 : 18L 5a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.32
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	18.80	675.8		44.11
4	248	472.24	2,886.7		64.70
5	262	1,116.18	6,464.4		65.96
6	401	34.83	131.6		77.59
7	419	42.34	152.9		78.65
8	468	24.19	78.4		81.42
9	10,380	75.00	10.9	Upper Marker	113.00

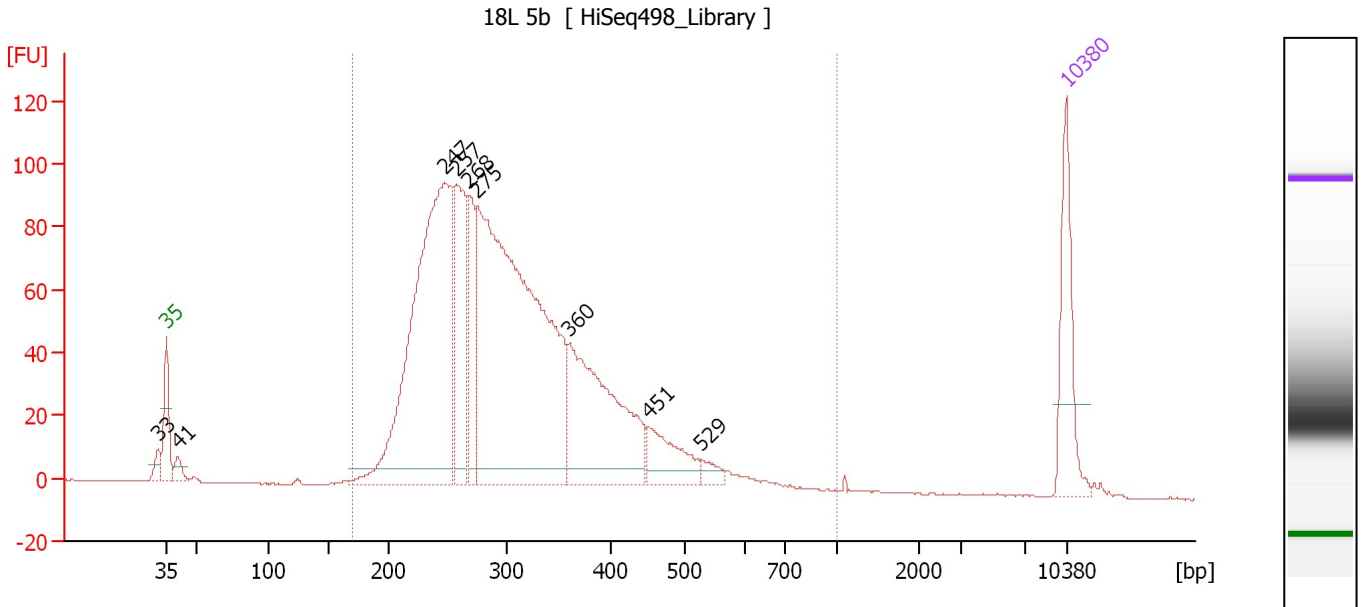
Region table for sample 7 : 18L 5a

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
156	1,000	313	1,535.9	9,733.4	1,855.43	97	27.1

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 18L 5b

Number of peaks found: 9 Corr. Area 1: 1,826.6
 Noise: 0.1

Peak table for sample 8 : 18L 5b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.32
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	18.65	695.2		43.88
4	247	607.71	3,727.5		64.62
5	257	170.31	1,005.6		65.50
6	268	98.68	558.3		66.53
7	275	793.27	4,375.0		67.16
8	360	261.10	1,098.1		74.34
9	451	67.12	225.2		80.49
10	529	14.36	41.1		84.64
11	10,380	75.00	10.9	Upper Marker	113.00

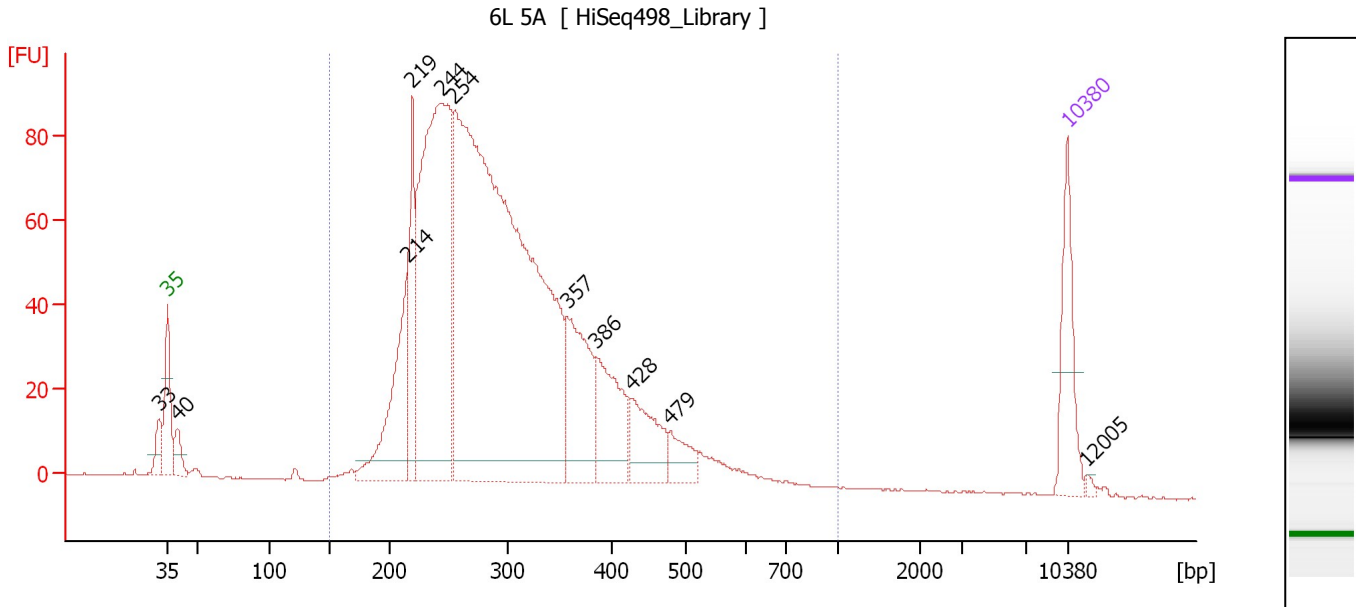
Region table for sample 8 : 18L 5b

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
170	1,000	313	1,826.6	10,653.1	2,028.21	98	28.1

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 6L 5A

Number of peaks found: 11 Corr. Area 1: 1,664.4
 Noise: 0.2

Peak table for sample 9 : 6L 5A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.36
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	34.08	1,300.1		43.74
4	214	191.39	1,353.1		61.63
5	219	136.71	947.6		62.02
6	244	635.99	3,953.6		64.32
7	254	1,466.62	8,733.8		65.30
8	357	158.37	672.1		74.08
9	386	118.66	466.2		76.38
10	428	84.51	299.4		79.13
11	479	37.66	119.1		82.07
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,005	0.00	0.0		114.52

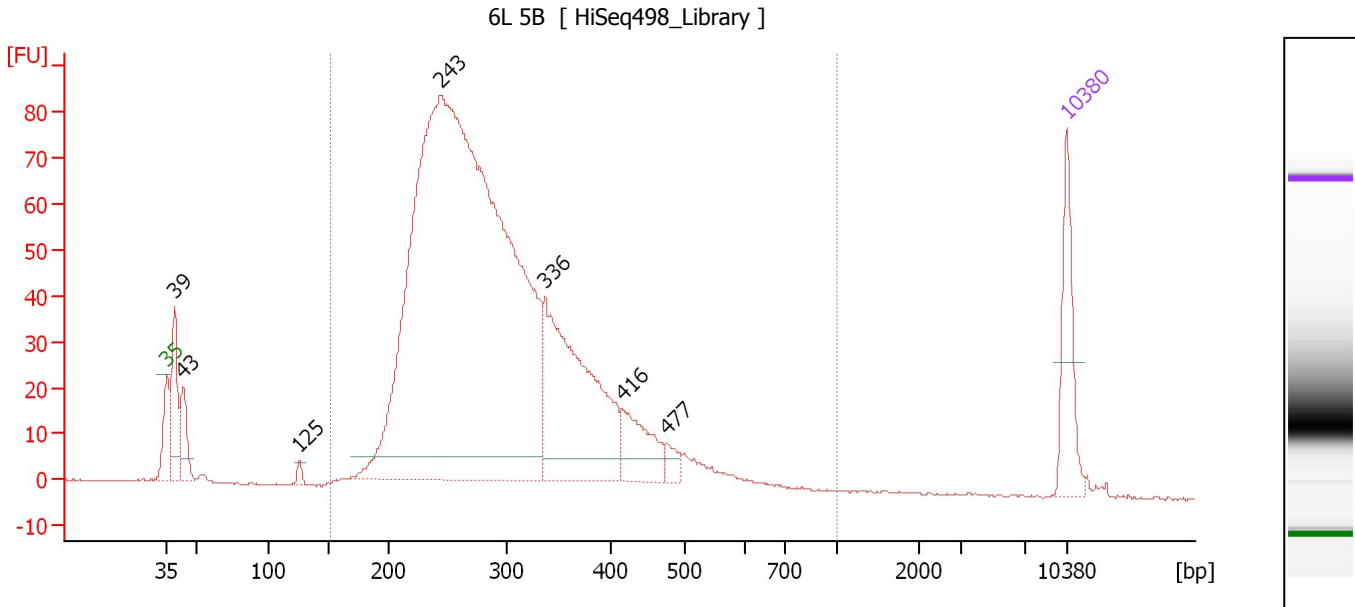
Region table for sample 9 : 6L 5A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
150	1,000	305	1,664.4	14,957.3	2,778.41	98	27.3

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 6L 5B

Number of peaks found: 7 Corr. Area 1: 1,467.2
 Noise: 0.2

Peak table for sample 10 : 6L 5B

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	39	119.17	4,659.5		43.58
3	43	66.19	2,325.5		44.27
4	125	9.62	116.2		53.32
5	243	2,197.36	13,691.1		64.27
6	336	389.56	1,755.4		72.40
7	416	83.06	302.8		78.44
8	477	17.80	56.5		81.94
9	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 : 6L 5B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
151	1,000	301	1,467.2	14,922.6	2,741.25	94	27.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...xpert\data\2016-06-10\2016-06-10_001_HiSeq498_Libraries.xad

Created: 6/10/2016 9:25:47 AM
Modified: 6/10/2016 10:09:45 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...xpert\data\2016-06-10\2016-06-10_001_HiSeq498_Libraries.xad

Created: 6/10/2016 9:25:47 AM
 Modified: 6/10/2016 10:09:45 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		6/10/2016 10:07:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_001.xad)		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/10/2016 9:25:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1