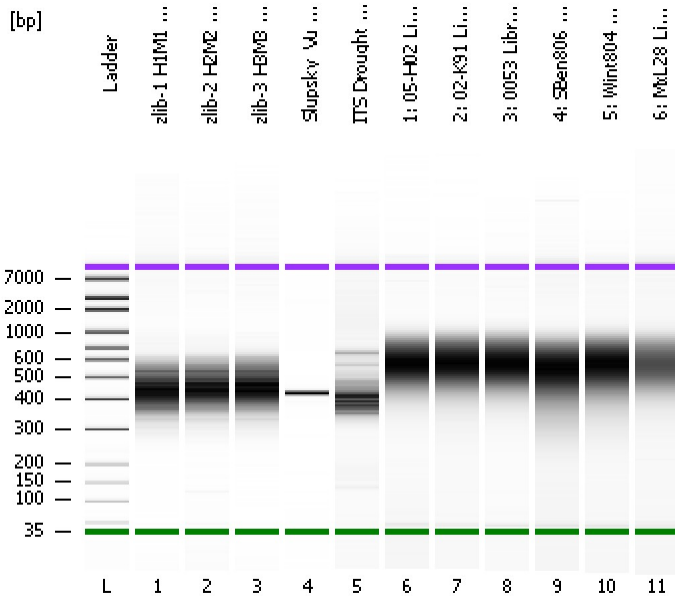


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
Modified: 10/3/2016 11:33:30 AM

Electrophoresis File Run Summary



Instrument Information:

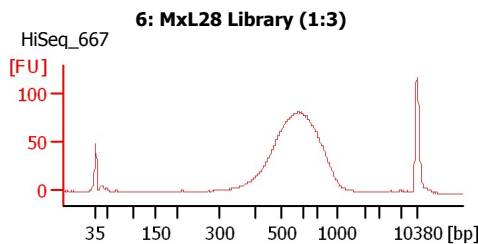
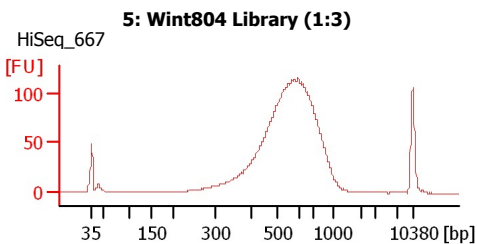
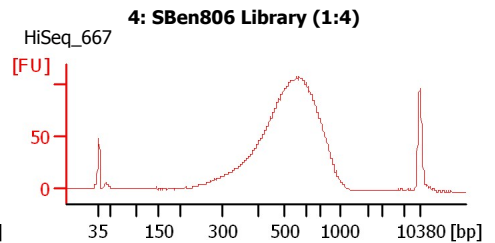
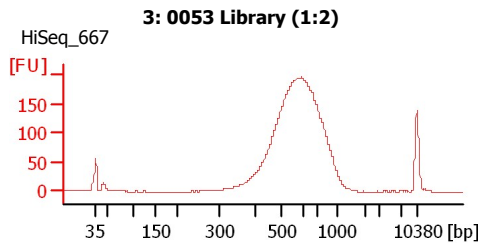
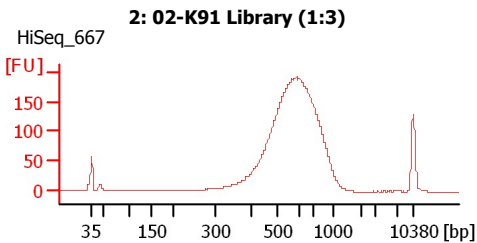
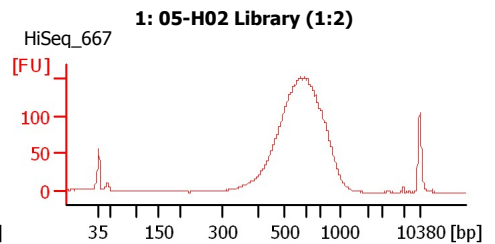
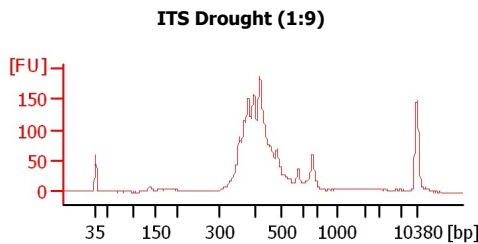
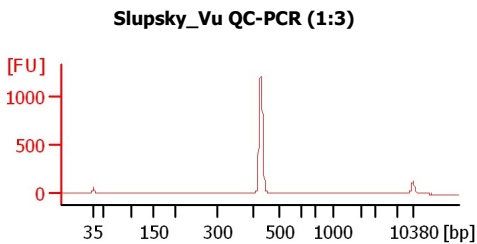
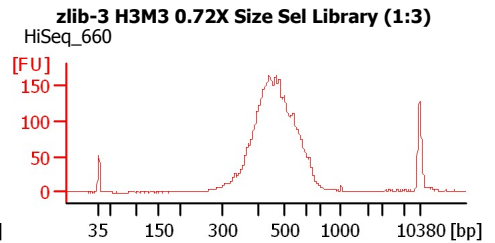
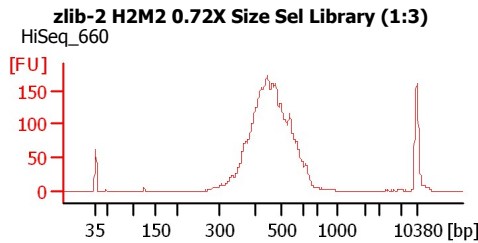
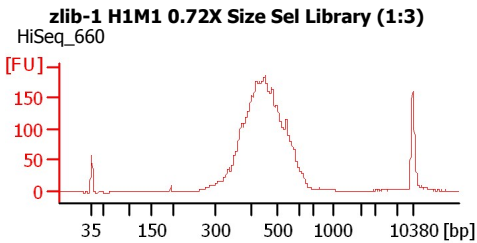
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
zlib-1 H1M1 0.72X Size Sel Library (1:3)	HiSeq_660	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
zlib-2 H2M2 0.72X Size Sel Library (1:3)	HiSeq_660	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
zlib-3 H3M3 0.72X Size Sel Library (1:3)	HiSeq_660	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Slupsky_Vu QC-PCR (1:3)		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
ITS Drought (1:9)		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
1: 05-H02 Library (1:2)	HiSeq_667	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
2: 02-K91 Library (1:3)	HiSeq_667	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
3: 0053 Library (1:2)	HiSeq_667	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
4: SBen806 Library (1:4)	HiSeq_667	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
5: Wint804 Library (1:3)	HiSeq_667	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
6: MxL28 Library (1:3)	HiSeq_667	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Ladder		<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
Modified: 10/3/2016 11:33:30 AM

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

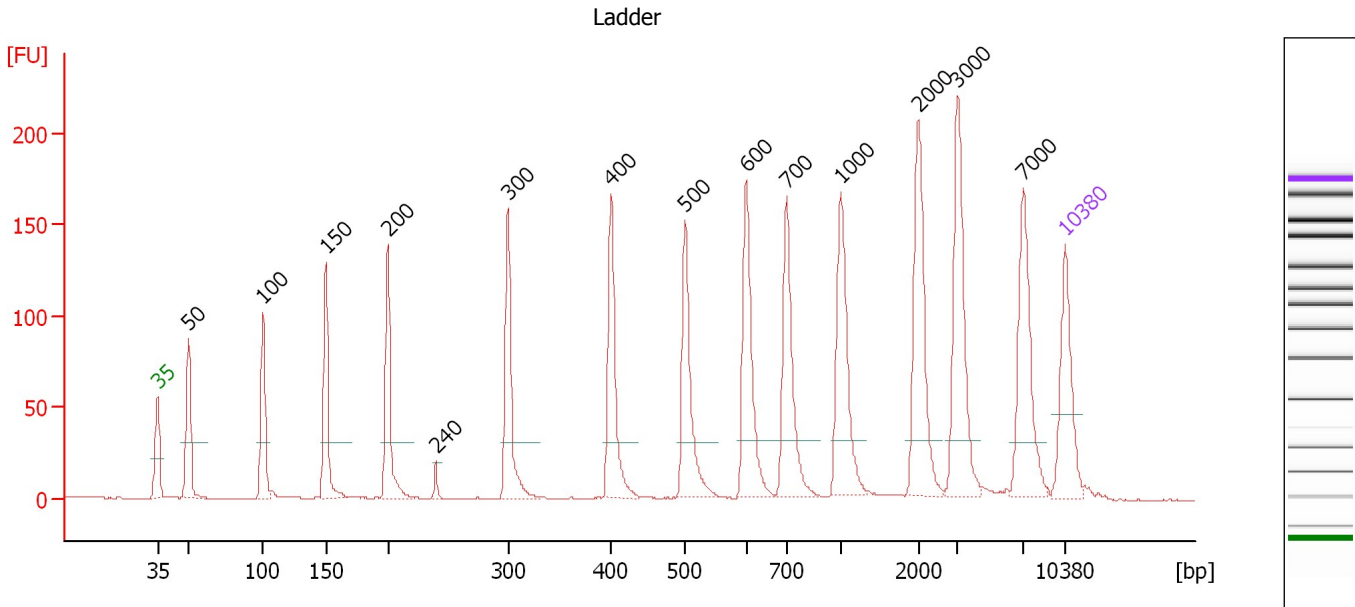
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

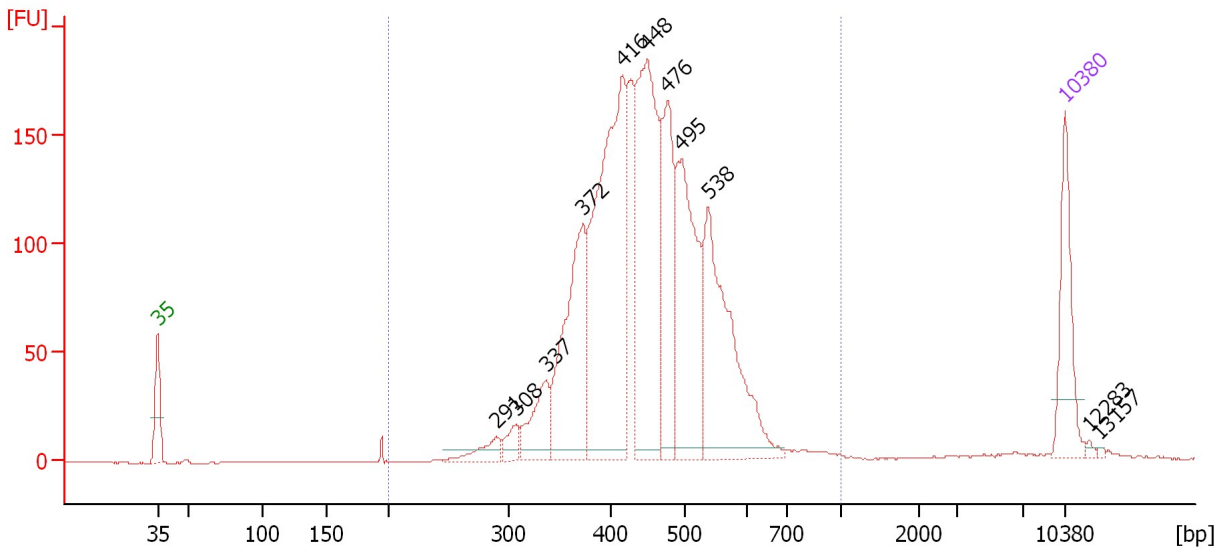
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.37
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	55.96
5	200	150.00	1,136.4	Ladder Peak	60.75
6	240	0.00	0.0		64.44
7	300	150.00	757.6	Ladder Peak	70.01
8	400	150.00	568.2	Ladder Peak	78.00
9	500	150.00	454.5	Ladder Peak	83.67
10	600	150.00	378.8	Ladder Peak	88.40
11	700	150.00	324.7	Ladder Peak	91.51
12	1,000	150.00	227.3	Ladder Peak	95.70
13	2,000	150.00	113.6	Ladder Peak	101.66
14	3,000	150.00	75.8	Ladder Peak	104.72
15	7,000	150.00	32.5	Ladder Peak	109.75
16	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...

zlib-1 H1M1 0.72X Size Sel Library (1:3) [HiSeq_660]



Overall Results for sample 1 : zlib-1 H1M1 0.72X Size Sel Library (1:3)

Number of peaks found: 11 Corr. Area 1: 2,445.9
 Noise: 0.2

Peak table for sample 1 : zlib-1 H1M1 0.72X Size Sel Library (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	291	29.19	152.2		69.14
3	308	22.14	109.0		70.62
4	337	70.15	315.6		72.95
5	372	222.59	906.4		75.77
6	416	447.40	1,630.6		78.89
7	448	351.72	1,189.4		80.72
8	476	161.64	514.6		82.31
9	495	228.51	699.2		83.40
10	538	262.81	739.9		85.48
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,283	0.00	0.0		114.83
13	13,157	0.00	0.0		115.67

Region table for sample 1 : zlib-1 H1M1 0.72X Size Sel Library (1:3)

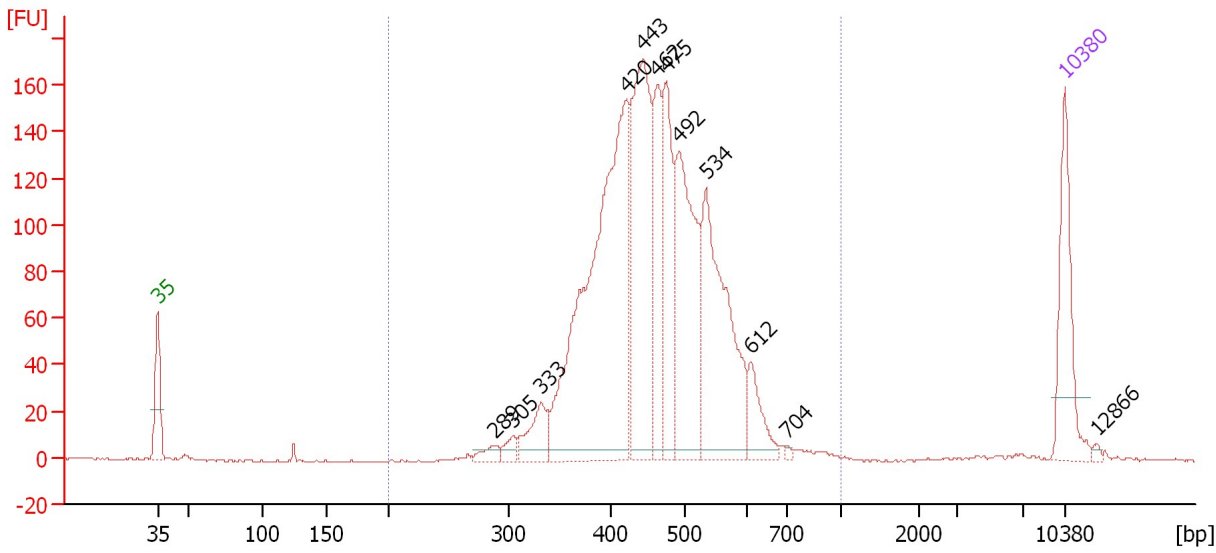
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	451	2,445.9	6,706.4	1,919.90	98	18.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...

zlib-2 H2M2 0.72X Size Sel Library (1:3) [HiSeq_660]



Overall Results for sample 2 : zlib-2 H2M2 0.72X Size Sel Library (1:3)

Number of peaks found: 12 Corr. Area 1: 2,140.6
 Noise: 0.4

Peak table for sample 2 : zlib-2 H2M2 0.72X Size Sel Library (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	289	12.77	66.9		69.03
3	305	12.96	64.3		70.42
4	333	46.51	211.9		72.62
5	420	503.53	1,815.5		79.15
6	443	255.98	875.3		80.44
7	462	107.92	353.6		81.54
8	475	128.39	409.7		82.24
9	492	201.56	620.3		83.24
10	534	229.69	651.7		85.28
11	612	40.86	101.2		88.77
12	704	3.21	6.9		91.56
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,866	0.00	0.0		115.39

Region table for sample 2 : zlib-2 H2M2 0.72X Size Sel Library (1:3)

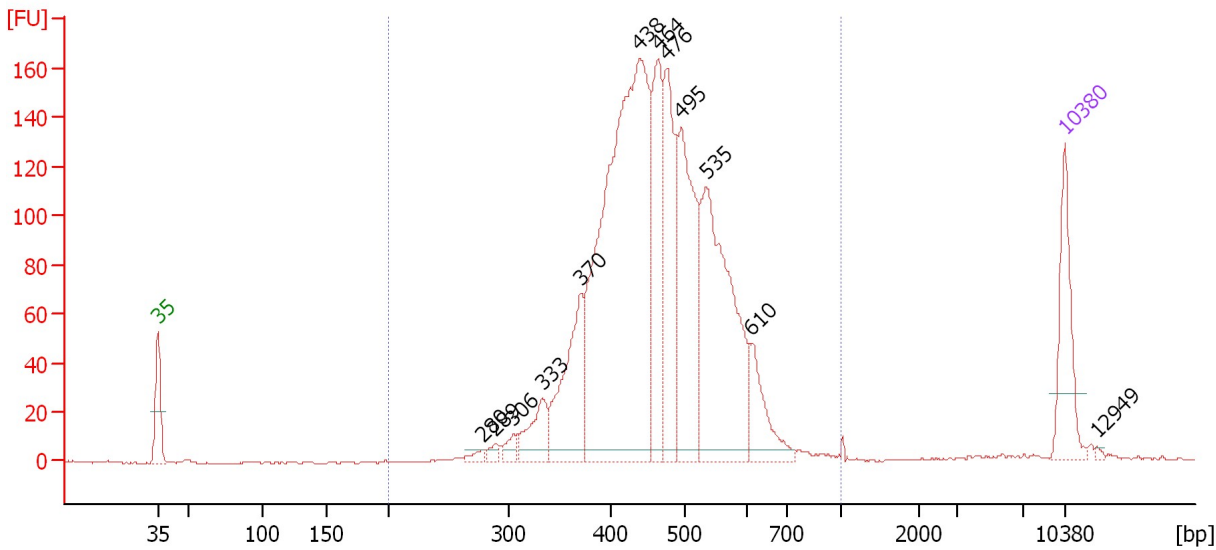
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	462	2,140.6	5,361.1	1,573.78	98	17.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...

zlib-3 H3M3 0.72X Size Sel Library (1:3) [HiSeq_660]



Overall Results for sample 3 : zlib-3 H3M3 0.72X Size Sel Library (1:3)

Number of peaks found: 12 Corr. Area 1: 2,168.0
Noise: 0.3

Peak table for sample 3 : zlib-3 H3M3 0.72X Size Sel Library (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	280	9.25	50.1		68.13
3	289	9.36	49.1		68.99
4	306	16.12	79.9		70.45
5	333	59.45	270.7		72.63
6	370	152.42	624.2		75.60
7	438	764.09	2,644.2		80.14
8	464	174.44	570.0		81.61
9	476	170.10	541.3		82.32
10	495	239.21	732.5		83.37
11	535	329.64	932.9		85.34
12	610	65.35	162.2		88.72
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,949	0.00	0.0		115.47

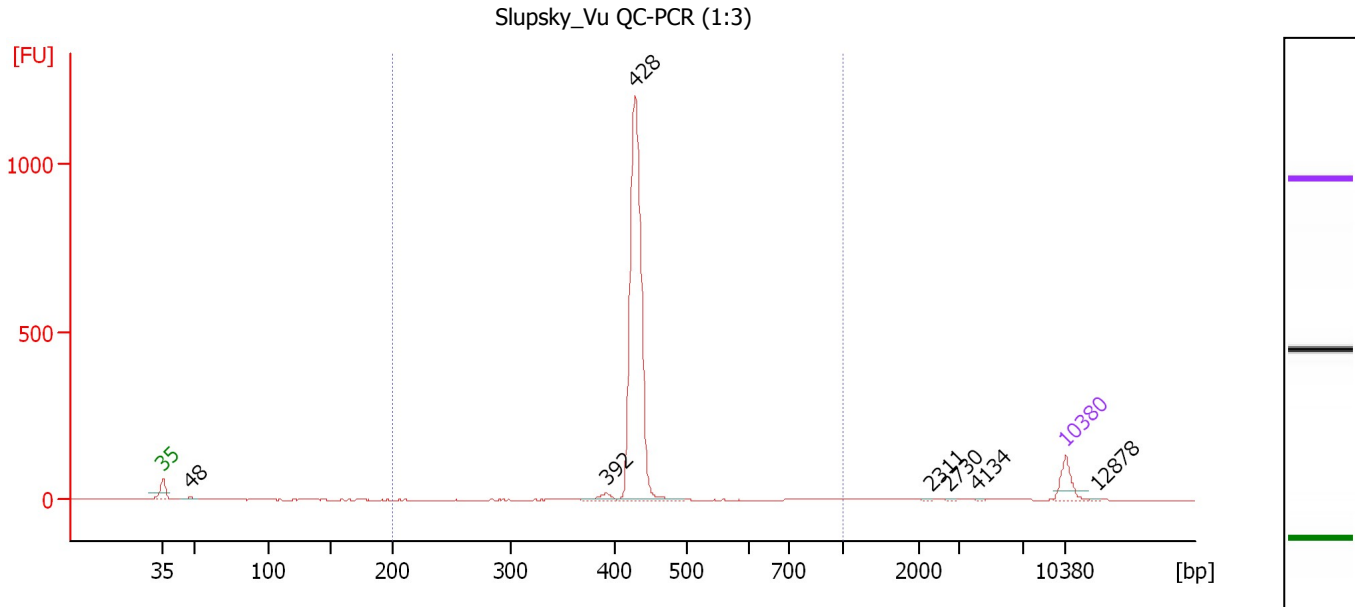
Region table for sample 3 : zlib-3 H3M3 0.72X Size Sel Library (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	466	2,168.0	6,836.3	2,016.82	98	17.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Slupsky Vu QC-PCR (1:3)

Number of peaks found: 7 Corr. Area 1: 1,628.6
 Noise: 0.3

Peak table for sample 4 : Slupsky Vu QC-PCR (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	48	14.47	453.9		45.10
3	392	29.66	114.7		77.33
4	428	1,462.45	5,177.4		79.59
5	2,311	3.53	2.3		102.61
6	2,730	3.96	2.2		103.89
7	4,134	2.05	0.8		106.14
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,878	0.00	0.0		115.40

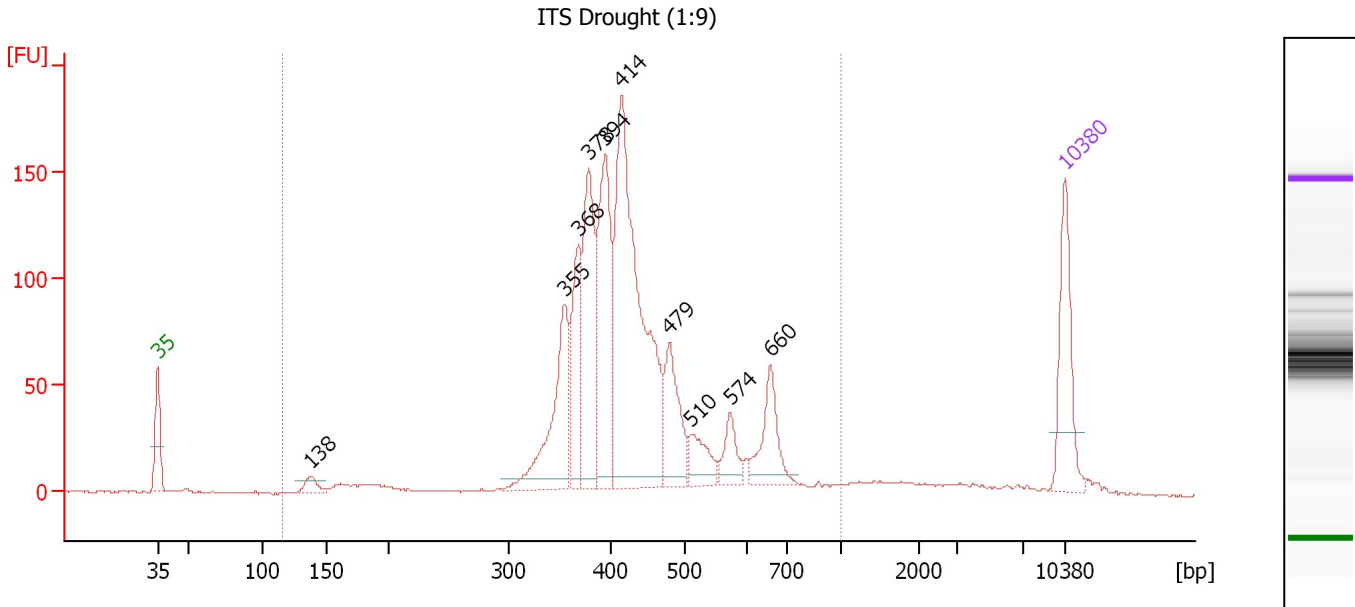
Region table for sample 4 : Slupsky Vu QC-PCR (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	434	1,628.6	5,568.3	1,571.61	91	12.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ITS Drought (1:9)

Number of peaks found: 10 Corr. Area 1: 1,715.5
 Noise: 0.3

Peak table for sample 5 : ITS Drought (1:9)

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	138	16.83	185.0		54.79
3	355	146.95	627.7		74.38
4	368	99.12	407.8		75.47
5	378	162.85	652.8		76.24
6	394	185.26	712.1		77.53
7	414	420.12	1,538.7		78.78
8	479	82.58	261.0		82.50
9	510	39.28	116.6		84.15
10	574	32.41	85.6		87.15
11	660	61.58	141.5		90.25
12	10,380	75.00	10.9	Upper Marker	113.00

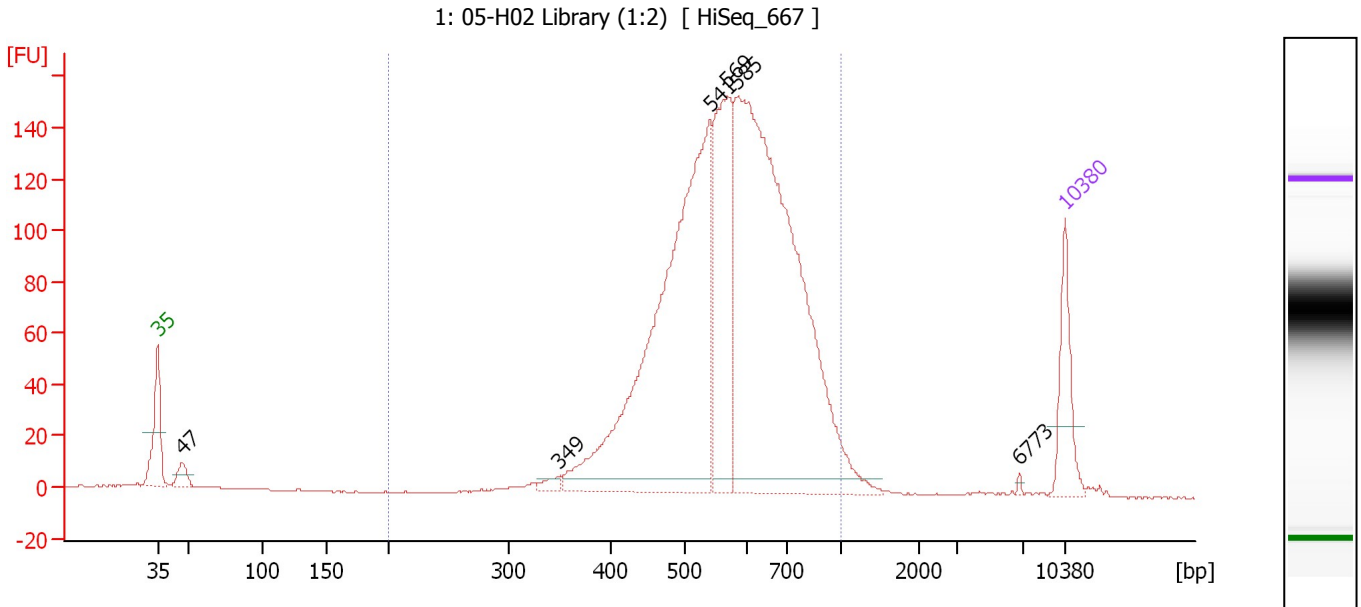
Region table for sample 5 : ITS Drought (1:9)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
116	1,000	434	1,715.5	5,408.5	1,406.47	93	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1: 05-H02 Library (1:2)

Number of peaks found: 6 Corr. Area 1: 2,044.5
 Noise: 0.2

Peak table for sample 6 : 1: 05-H02 Library (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	47	31.32	1,005.4		44.93
3	349	13.78	59.9		73.91
4	541	896.87	2,510.3		85.62
5	569	304.08	810.0		86.93
6	585	1,091.51	2,825.5		87.71
7	6,773	2.11	0.5		109.46
8	10,380	75.00	10.9	Upper Marker	113.00

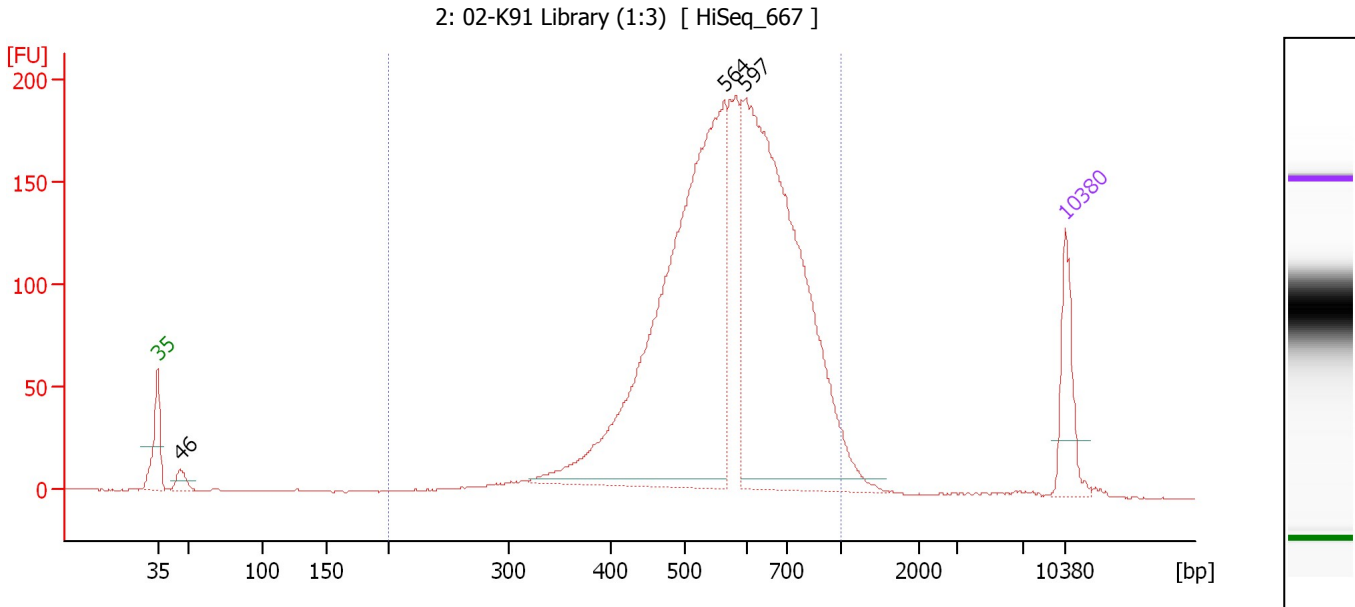
Region table for sample 6 : 1: 05-H02 Library (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	589	2,044.5	6,389.2	2,348.72	96	21.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2: 02-K91 Library (1:3)

Number of peaks found: 3 Corr. Area 1: 2,655.4
 Noise: 0.1

Peak table for sample 7 : 2: 02-K91 Library (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	46	25.86	846.1		44.79
3	564	1,030.94	2,770.3		86.69
4	597	928.80	2,356.7		88.27
5	10,380	75.00	10.9	Upper Marker	113.00

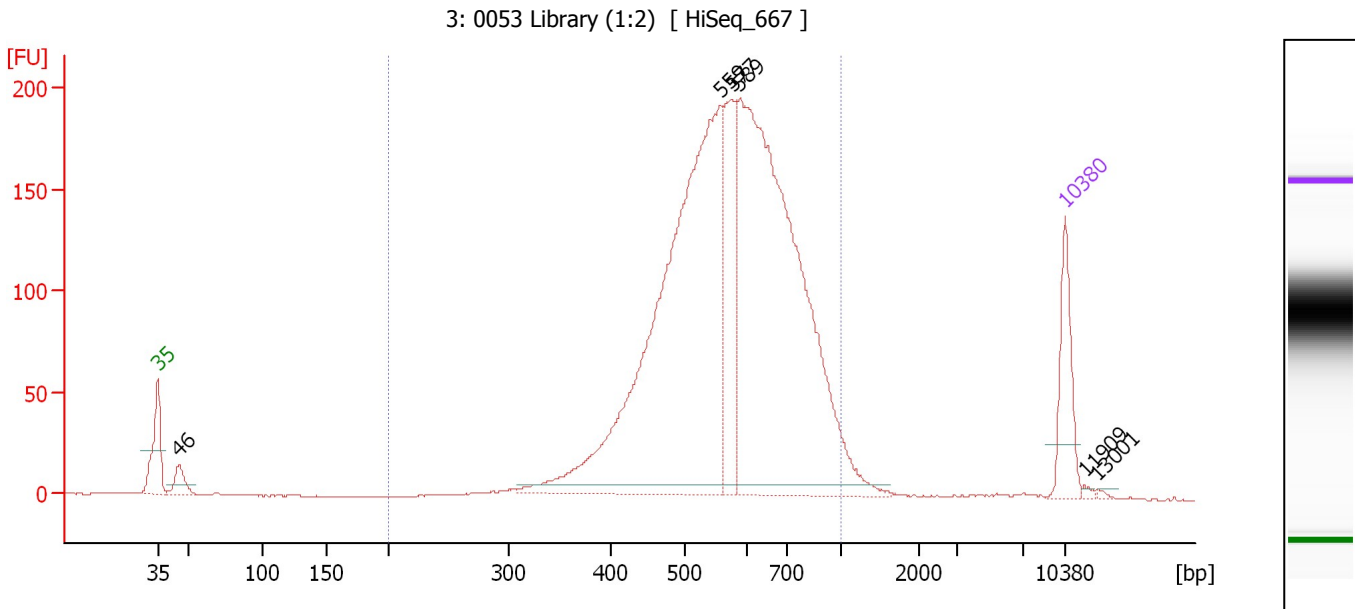
Region table for sample 7 : 2: 02-K91 Library (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	588	2,655.4	6,403.9	2,318.69	97	22.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 3: 0053 Library (1:2)

Number of peaks found: 6 Corr. Area 1: 2,679.2
 Noise: 0.2

Peak table for sample 8 : 3: 0053 Library (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	46	36.42	1,208.6		44.68
3	559	1,020.84	2,767.0		86.46
4	577	191.72	503.6		87.30
5	589	987.85	2,541.2		87.88
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,909	0.00	0.0		114.47
8	13,001	0.00	0.0		115.52

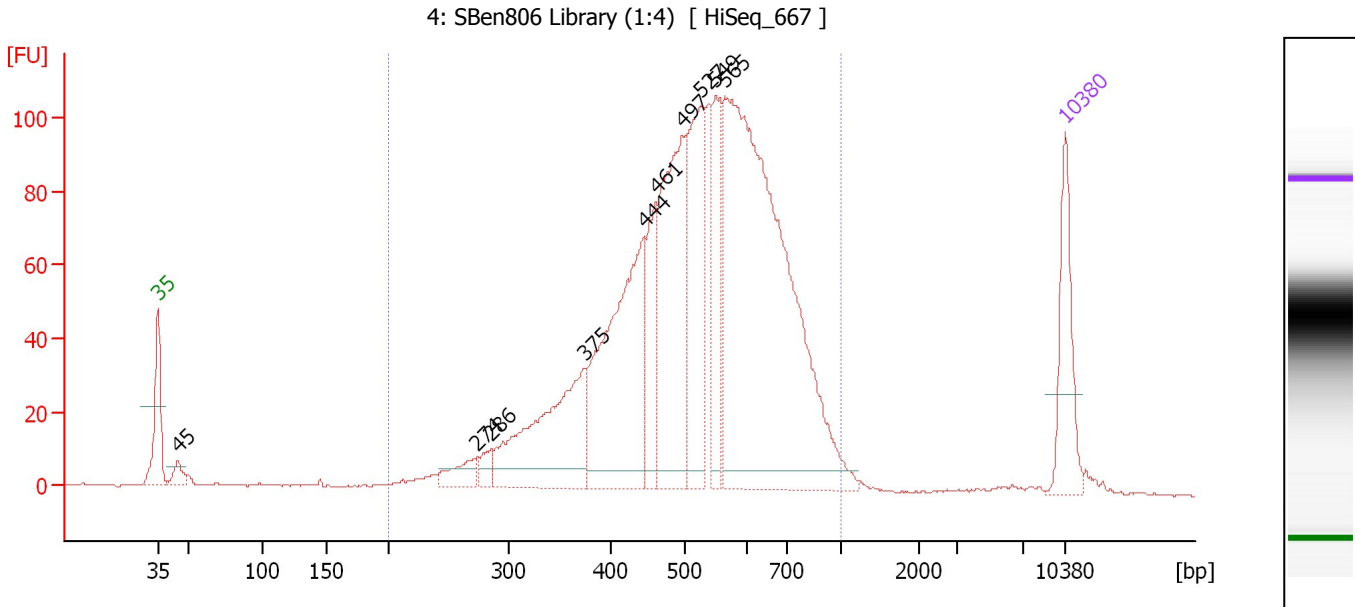
Region table for sample 8 : 3: 0053 Library (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	588	2,679.2	6,253.1	2,280.06	96	22.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 4: SBen806 Library (1:4)

Number of peaks found: 10 Corr. Area 1: 1,861.9
 Noise: 0.2

Peak table for sample 9 : 4: SBen806 Library (1:4)

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	45	20.57	692.9		44.58
3	274	34.21	189.0		67.63
4	286	18.83	99.7		68.73
5	375	226.15	914.5		75.98
6	444	323.36	1,103.5		80.49
7	461	94.13	309.6		81.44
8	497	279.70	853.0		83.49
9	527	192.12	552.1		84.96
10	549	101.31	279.4		86.01
11	565	747.53	2,004.8		86.74
12	10,380	75.00	10.9	Upper Marker	113.00

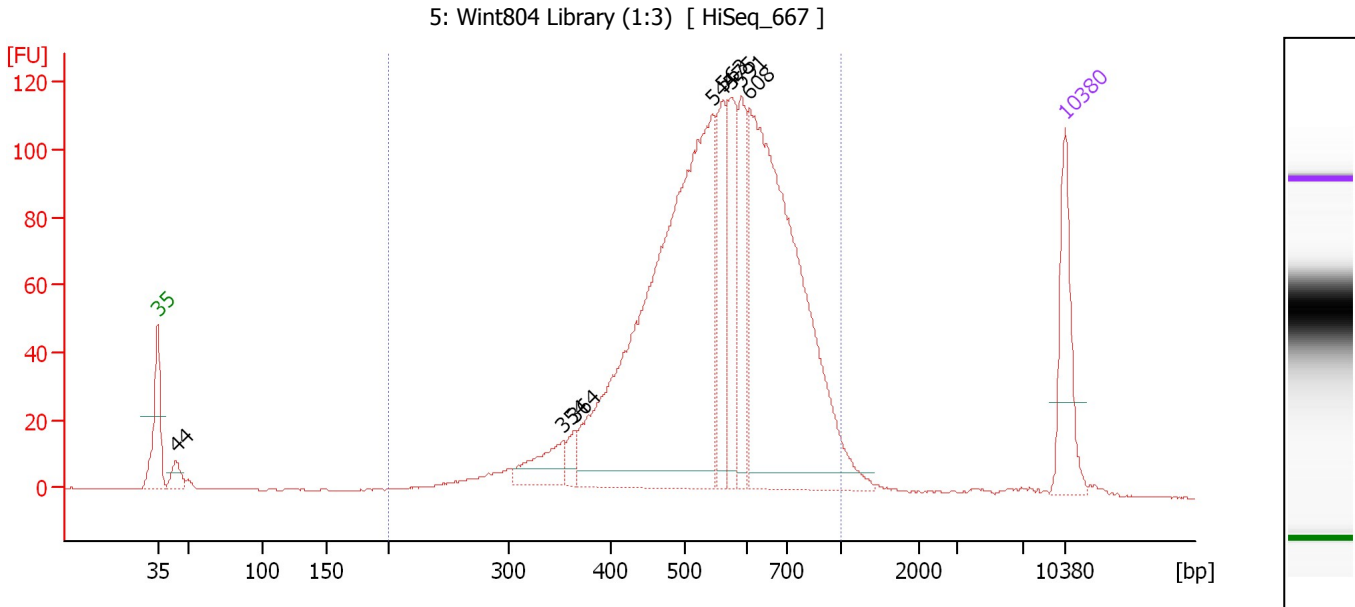
Region table for sample 9 : 4: SBen806 Library (1:4)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	530	1,861.9	6,881.9	2,173.11	95	25.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 5: Wint804 Library (1:3)

Number of peaks found: 8 Corr. Area 1: 1,781.4
 Noise: 0.1

Peak table for sample 10 : 5: Wint804 Library (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	44	25.35	872.8		44.42
3	354	52.89	226.6		74.29
4	364	20.22	84.1		75.13
5	544	772.11	2,150.0		85.76
6	563	112.04	301.5		86.65
7	575	97.78	257.6		87.23
8	591	94.91	243.4		87.97
9	608	573.62	1,429.5		88.65
10	10,380	75.00	10.9	Upper Marker	113.00

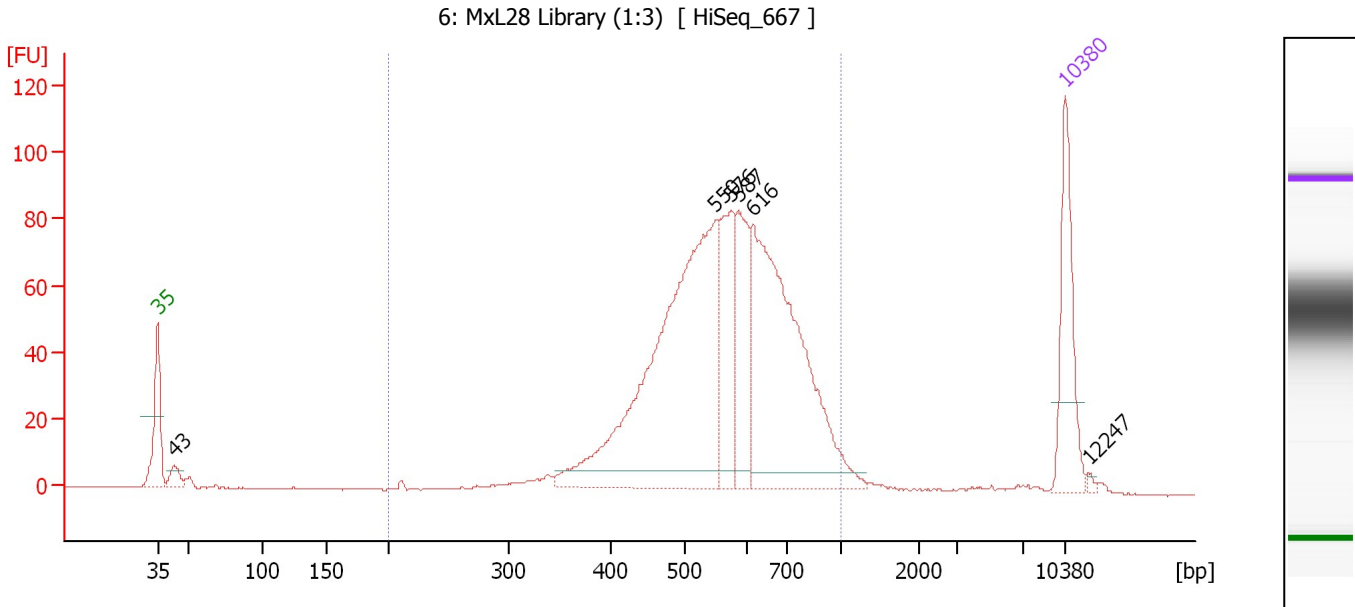
Region table for sample 10 : 5: Wint804 Library (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	565	1,781.4	5,558.3	1,901.03	96	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 6: MxL28 Library (1:3)

Number of peaks found: 6 Corr. Area 1: 1,143.4
 Noise: 0.1

Peak table for sample 11 : 6: MxL28 Library (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	43	18.08	631.5		44.32
3	550	478.75	1,318.8		86.04
4	576	103.27	271.8		87.25
5	587	91.70	236.8		87.78
6	616	346.52	852.6		88.89
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,247	0.00	0.0		114.80

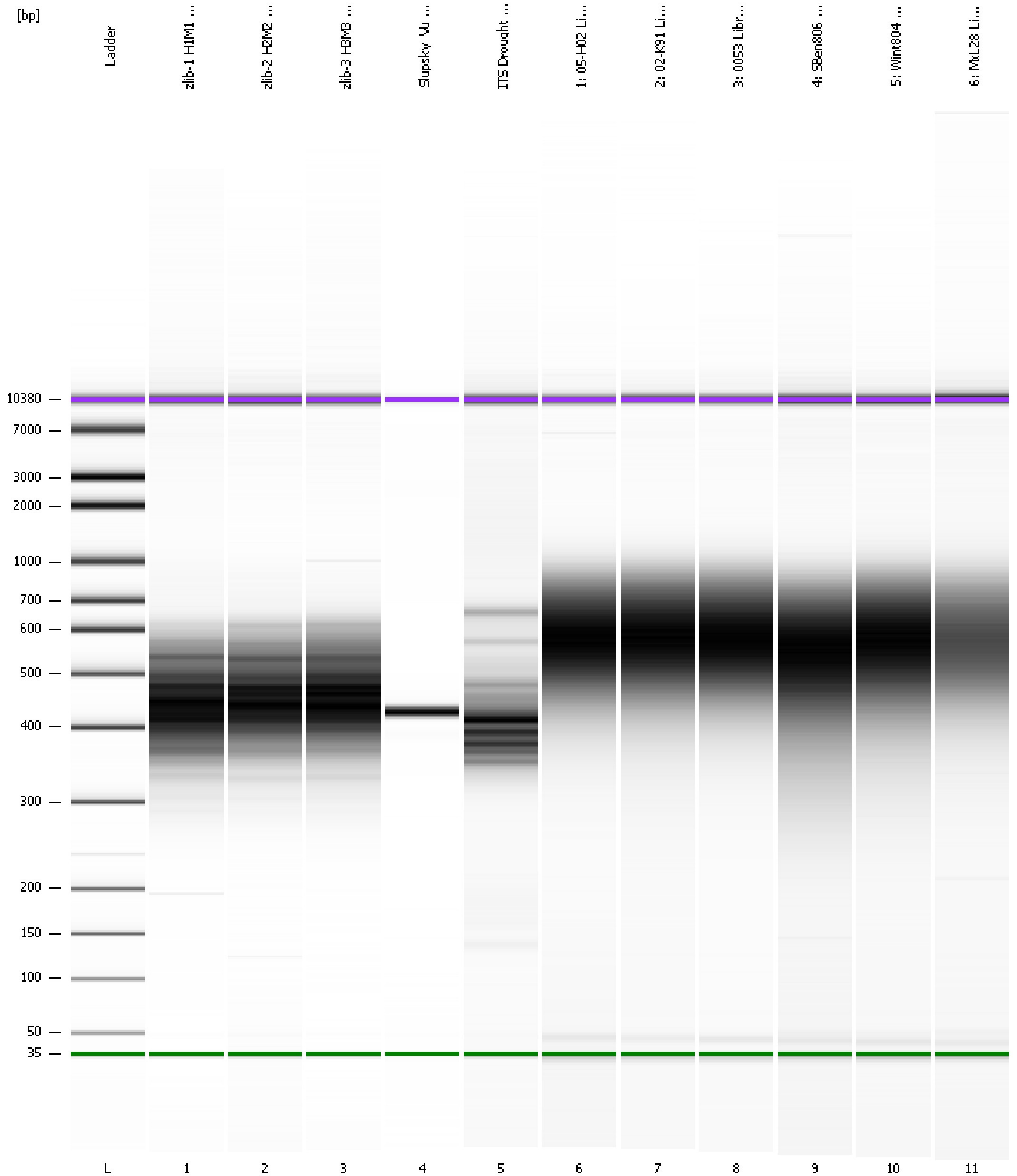
Region table for sample 11 : 6: MxL28 Library (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	580	1,143.4	3,030.6	1,088.39	95	22.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
Modified: 10/3/2016 11:33:30 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-03\2016-10-03_001.xad

Created: 10/3/2016 10:52:12 AM
 Modified: 10/3/2016 11:33:30 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		10/3/2016 11:33:29 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\2016-10-03\2016-10-03_001.xad)		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1