

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/5/2015 1:45:40 PM

Electrophoresis File Run Summary

Instrument Information:

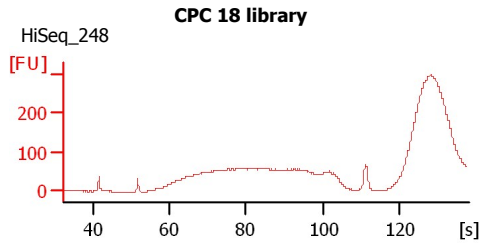
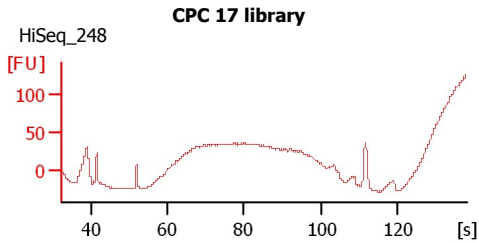
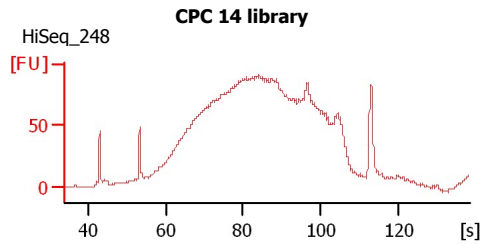
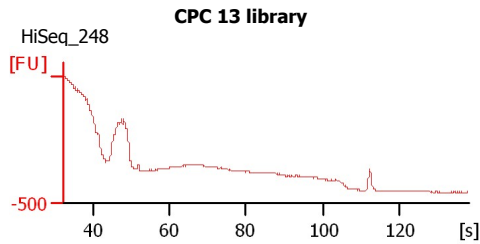
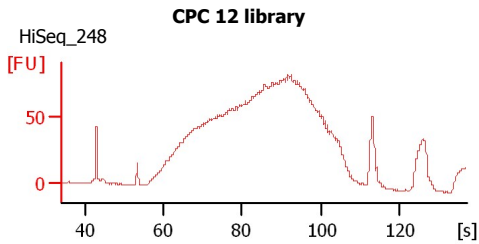
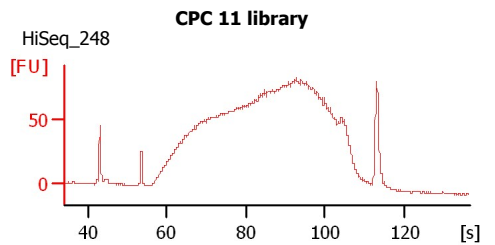
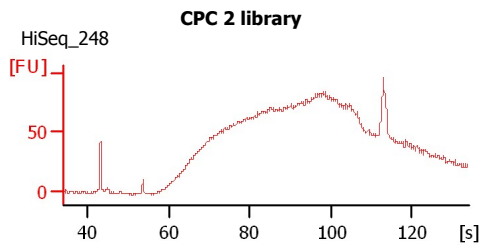
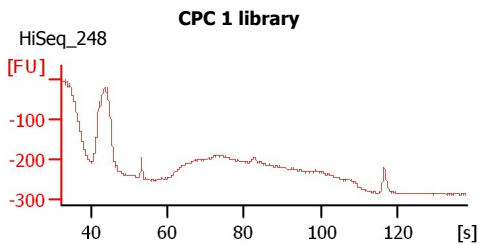
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CPC 1 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 2 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 11 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 12 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 13 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 14 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 17 library	HiSeq_248	<input type="checkbox"/>	✓			
CPC 18 library	HiSeq_248	<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

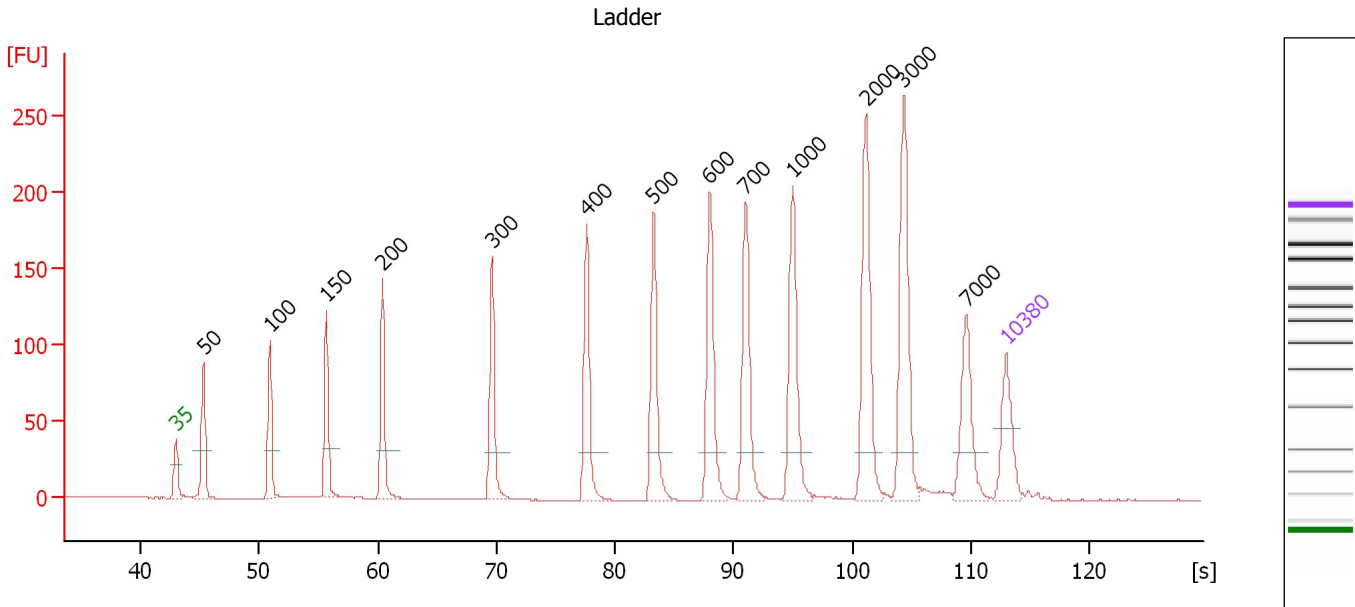
Ladder

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: 0.1

Peak table for Ladder

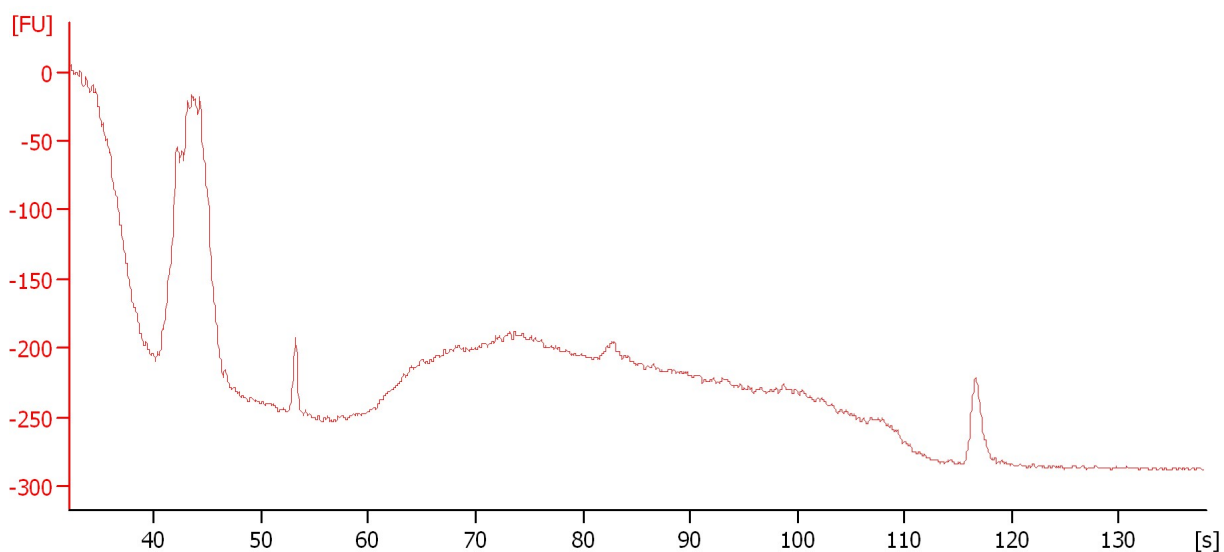
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.31
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.68
5	200	150.00	1,136.4	Ladder Peak	60.43
6	300	150.00	757.6	Ladder Peak	69.67
7	400	150.00	568.2	Ladder Peak	77.64
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	88.01
10	700	150.00	324.7	Ladder Peak	91.04
11	1,000	150.00	227.3	Ladder Peak	94.98
12	2,000	150.00	113.6	Ladder Peak	101.18
13	3,000	150.00	75.8	Ladder Peak	104.35
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

CPC 1 library [HiSeq_248]



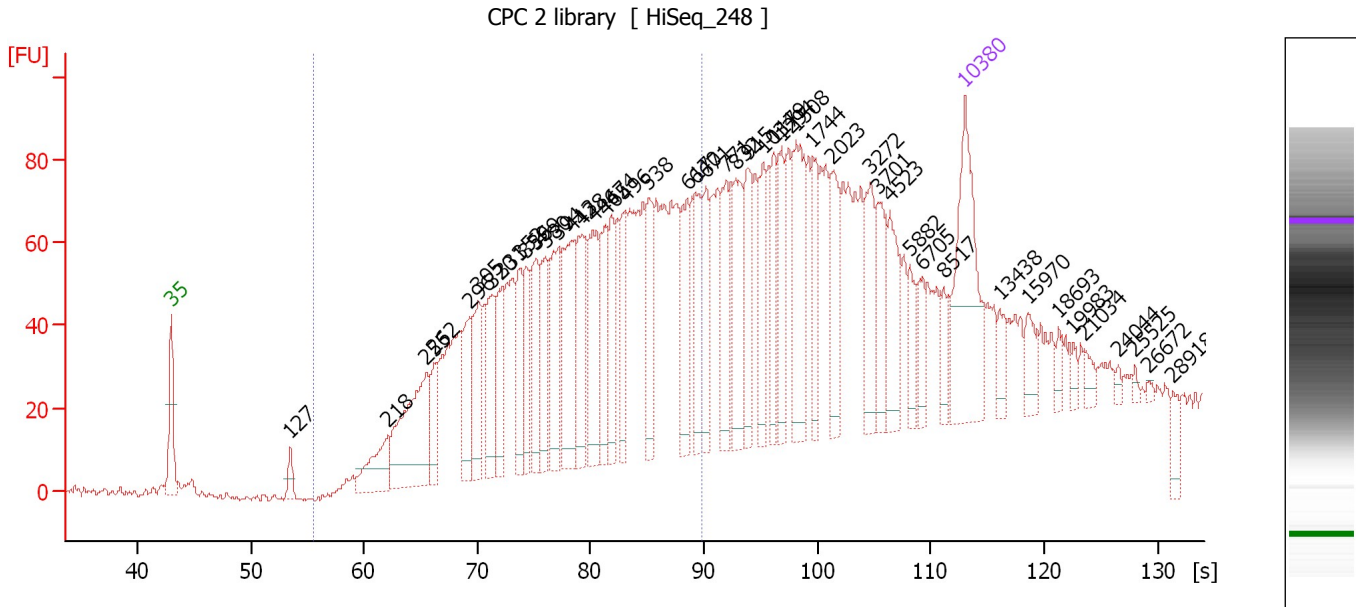
Overall Results for sample 3 : CPC 1 library

Noise: 1.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : CPC 2 library

Number of peaks found: 47 Corr. Area 1: 1,528.5
 Noise: 0.9

Peak table for sample 4 : CPC 2 library

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	127	12.07	143.7		53.51
3	218	41.76	289.7		62.13
4	255	108.29	643.9		65.50
5	262	28.18	163.0		66.16
6	296	42.18	216.0		69.29
7	305	49.71	246.7		70.09
8	320	47.85	226.9		71.23
9	331	40.15	183.6		72.17
10	352	38.73	166.9		73.78
11	359	35.77	151.0		74.35
12	369	44.02	180.5		75.21
13	380	43.46	173.5		76.01
14	394	56.93	219.0		77.15
15	413	73.50	269.5		78.38
16	428	52.53	186.2		79.18
17	446	60.18	204.4		80.23
18	465	41.26	134.5		81.27
19	474	36.63	117.1		81.79
20	496	36.85	112.6		83.02
21	538	38.74	109.1		85.06
22	617	39.25	96.4		88.51
23	640	32.96	78.0		89.22
24	671	38.26	86.3		90.17
25	771	39.95	78.5		91.97

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Electropherogram Summary Continued ...

... Peak table for sample 4 : CPC 2 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	832	46.21	84.1		92.78
27	915	42.64	70.6		93.87
28	1,034	34.09	49.9		95.19
29	1,179	29.73	38.2		96.09
30	1,294	31.75	37.2		96.80
31	1,508	56.91	57.2		98.13
32	1,744	28.01	24.3		99.60
33	2,023	37.48	28.1		101.25
34	3,272	33.67	15.6		104.71
35	3,701	32.86	13.5		105.28
36	4,523	33.88	11.3		106.37
37	5,882	15.96	4.1		108.17
38	6,705	15.26	3.4		109.26
39	8,517	10.74	1.9		111.15
40	10,380	75.00	10.9	Upper Marker	113.00
41	13,438	0.00	0.0		116.03
42	15,970	0.00	0.0		118.54
43	18,693	0.00	0.0		121.24
44	19,983	0.00	0.0		122.52
45	21,034	0.00	0.0		123.56
46	24,044	0.00	0.0		126.55
47	25,525	0.00	0.0		128.01
48	26,672	0.00	0.0		129.15
49	28,918	0.00	0.0		131.38

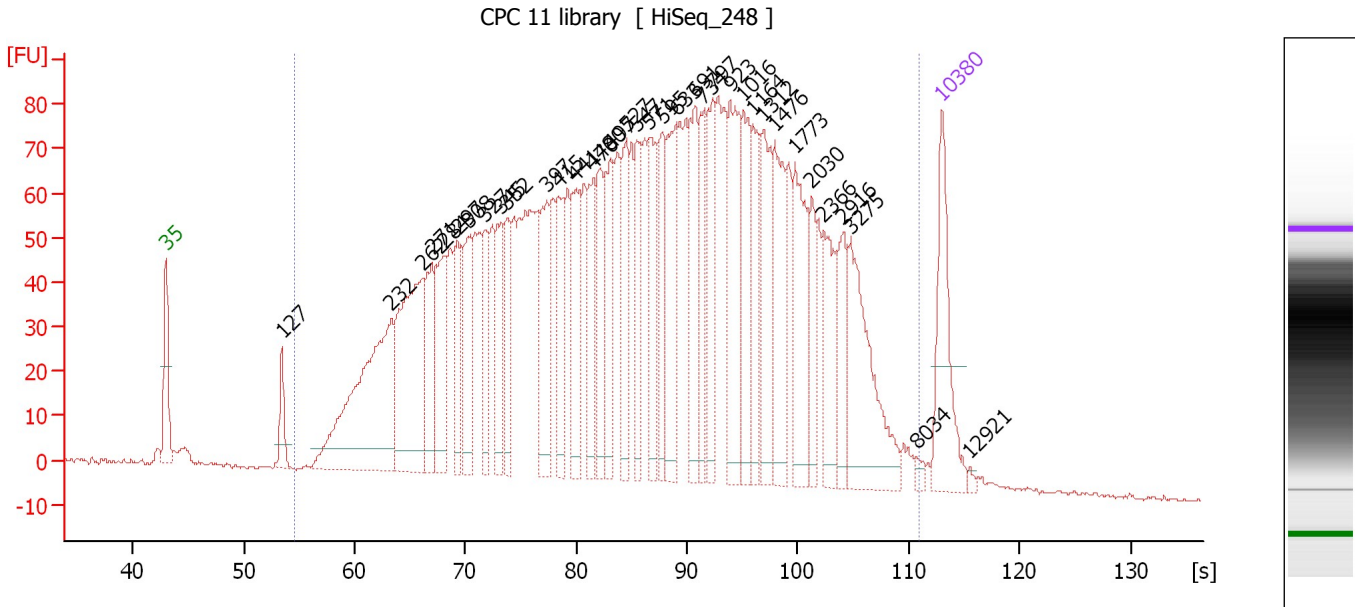
Region table for sample 4 : CPC 2 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
148	659	436	1,528.5	4,878.0	1,252.22	52	26.1

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Electropherogram Summary Continued ...



Overall Results for sample 5 : CPC 11 library

Number of peaks found: 36 Corr. Area 1: 3,667.9
 Noise: 0.4

Peak table for sample 5 : CPC 11 library

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	127	36.62	437.9		53.46
3	232	287.11	1,878.7		63.35
4	262	218.23	1,259.7		66.20
5	271	78.33	438.1		66.98
6	284	97.95	522.6		68.19
7	297	64.71	330.6		69.35
8	308	87.53	431.2		70.27
9	327	59.59	276.1		71.82
10	345	58.61	257.6		73.23
11	352	58.79	253.1		73.81
12	397	82.28	314.1		77.39
13	415	70.24	256.7		78.46
14	441	74.93	257.2		79.96
15	470	71.11	229.3		81.56
16	480	68.66	216.6		82.14
17	497	78.38	238.7		83.11
18	527	79.44	228.6		84.52
19	547	64.51	178.7		85.48
20	571	76.46	202.8		86.65
21	595	57.26	145.9		87.76
22	633	93.38	223.4		89.02
23	691	89.15	195.5		90.76
24	734	60.24	124.3		91.49
25	797	72.85	138.5		92.31

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Electropherogram Summary Continued ...

... Peak table for sample 5 : CPC 11 library

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	923	100.73	165.4		93.96
27	1,016	74.41	111.0		95.08
28	1,164	59.04	76.8		96.00
29	1,312	76.81	88.7		96.92
30	1,476	80.22	82.3		97.93
31	1,773	82.42	70.4		99.78
32	2,030	34.79	26.0		101.28
33	2,366	58.58	37.5		102.34
34	2,916	45.00	23.4		104.09
35	3,275	108.12	50.0		104.72
36	8,034	4.71	0.9		110.67
37	10,380	75.00	10.9	Upper Marker	113.00
38	12,921	0.00	0.0		115.52

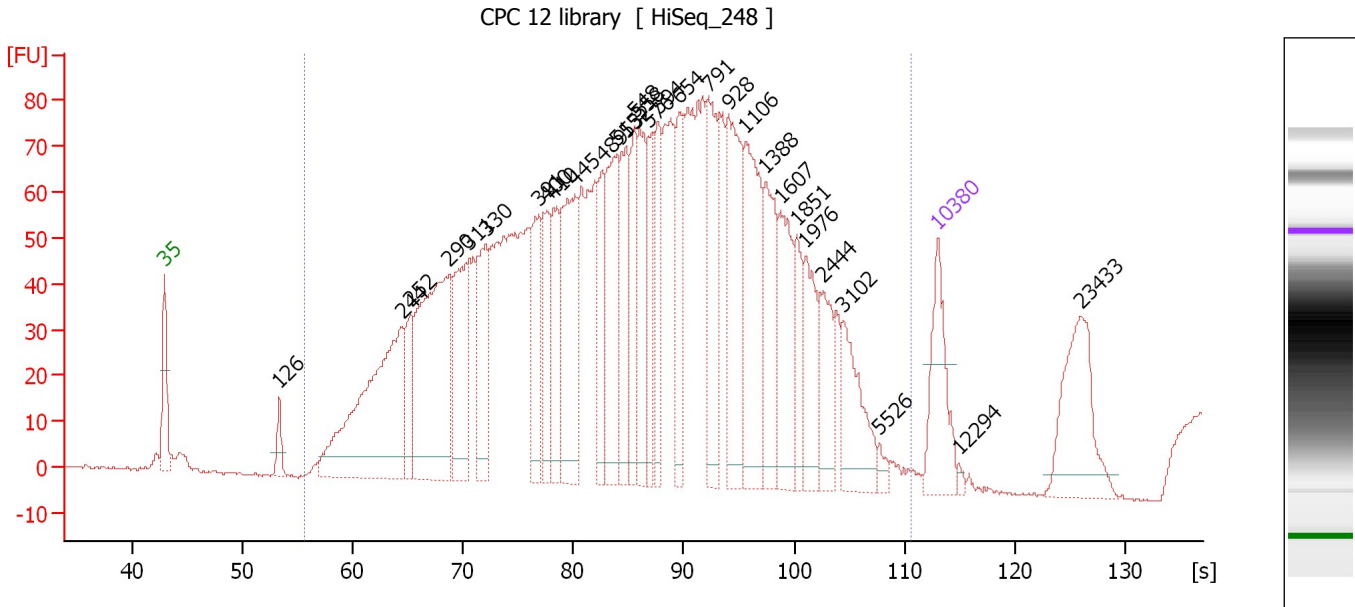
Region table for sample 5 : CPC 11 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
139	8,275	985	3,667.9	13,350.6	3,893.65	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : CPC 12 library

Number of peaks found: 30 Corr. Area 1: 2,722.7
 Noise: 0.4

Peak table for sample 6 : CPC 12 library

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	126	28.96	349.2		53.36
3	244	372.12	2,315.3		64.45
4	252	66.45	399.6		65.23
5	290	337.37	1,763.4		68.73
6	311	162.99	794.5		70.53
7	330	126.79	581.5		72.09
8	391	89.18	345.8		76.91
9	400	84.44	319.9		77.64
10	410	89.68	331.1		78.22
11	445	180.68	615.2		80.16
12	489	73.37	227.2		82.65
13	515	148.39	436.7		83.96
14	532	102.87	292.8		84.79
15	548	87.30	241.6		85.52
16	558	98.82	268.4		86.00
17	576	73.44	193.1		86.88
18	594	73.12	186.6		87.70
19	654	98.20	227.4		89.65
20	791	135.82	260.3		92.23
21	928	157.47	257.2		94.03
22	1,106	157.00	215.2		95.63
23	1,388	97.43	106.4		97.38
24	1,607	97.07	91.5		98.75
25	1,851	46.56	38.1		100.26

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Electropherogram Summary Continued ...

... Peak table for sample 6 : CPC 12 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,976	68.24	52.3		101.03
27	2,444	57.56	35.7		102.59
28	3,102	76.30	37.3		104.49
29	5,526	8.76	2.4		107.70
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,294	0.00	0.0		114.90
32	23,433	0.00	0.0		125.94

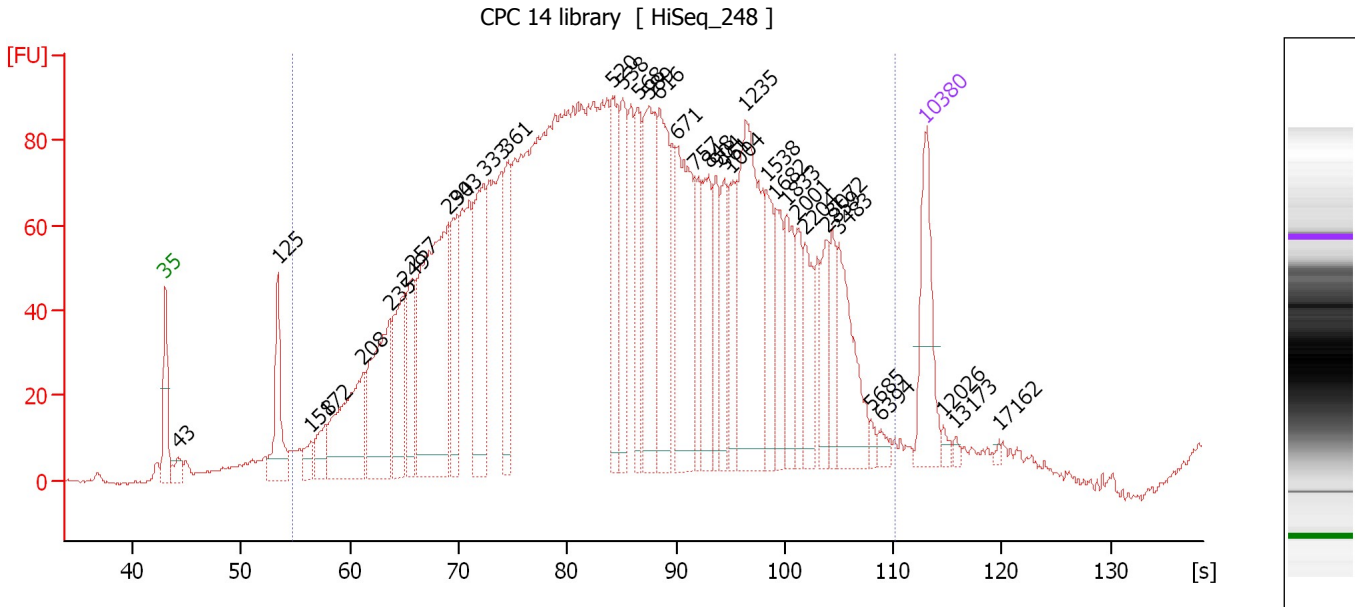
Region table for sample 6 : CPC 12 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
150	8,017	775	2,722.7	12,465.7	3,662.01	98	83.6

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Electropherogram Summary Continued ...



Overall Results for sample 8 : CPC 14 library

Number of peaks found: 37 Corr. Area 1: 3,790.1
 Noise: 0.3

Peak table for sample 8 : CPC 14 library

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	23.19	822.6		44.19
3	125	105.77	1,278.7		53.33
4	158	22.62	216.8		56.45
5	172	37.93	333.9		57.78
6	208	164.40	1,196.2		61.19
7	235	175.96	1,134.6		63.66
8	249	109.29	663.9		65.00
9	257	91.19	537.7		65.69
10	294	336.79	1,736.5		69.10
11	303	96.36	482.1		69.89
12	333	165.72	753.6		72.31
13	361	100.74	423.4		74.49
14	520	105.61	308.0		84.18
15	538	89.57	252.1		85.07
16	568	78.35	208.9		86.50
17	589	141.32	363.4		87.49
18	616	139.20	342.6		88.48
19	671	165.35	373.3		90.16
20	757	54.96	110.0		91.79
21	848	79.96	142.9		92.98
22	904	49.61	83.1		93.72
23	961	55.28	87.2		94.46
24	1,004	47.18	71.2		95.01
25	1,235	196.72	241.3		96.44

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Electropherogram Summary Continued ...

... Peak table for sample 8 : CPC 14 library

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,538	52.14	51.4		98.32
27	1,682	48.13	43.4		99.21
28	1,833	55.32	45.7		100.15
29	2,001	36.66	27.8		101.19
30	2,204	41.99	28.9		101.83
31	2,859	40.58	21.5		103.90
32	3,072	30.55	15.1		104.45
33	3,483	84.37	36.7		104.99
34	5,685	5.73	1.5		107.91
35	6,394	8.27	2.0		108.85
36	10,380	75.00	10.9	Upper Marker	113.00
37	12,026	0.00	0.0		114.63
38	13,173	0.00	0.0		115.77
39	17,162	0.00	0.0		119.72

Region table for sample 8 : CPC 14 library

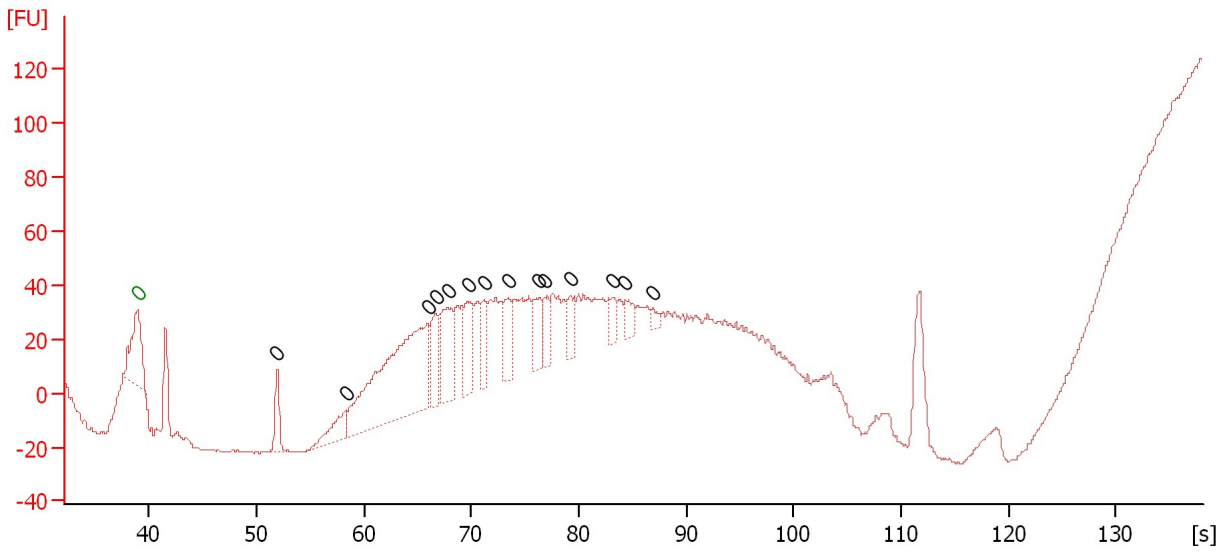
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
140	7,552	865	3,790.1	16,470.7	4,533.50	96	100.0

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Electropherogram Summary Continued ...

CPC 17 library [HiSeq_248]



Overall Results for sample 9 : CPC 17 library

Number of peaks found: 14 Noise: 0.5

Peak table for sample 9 : CPC 17 library

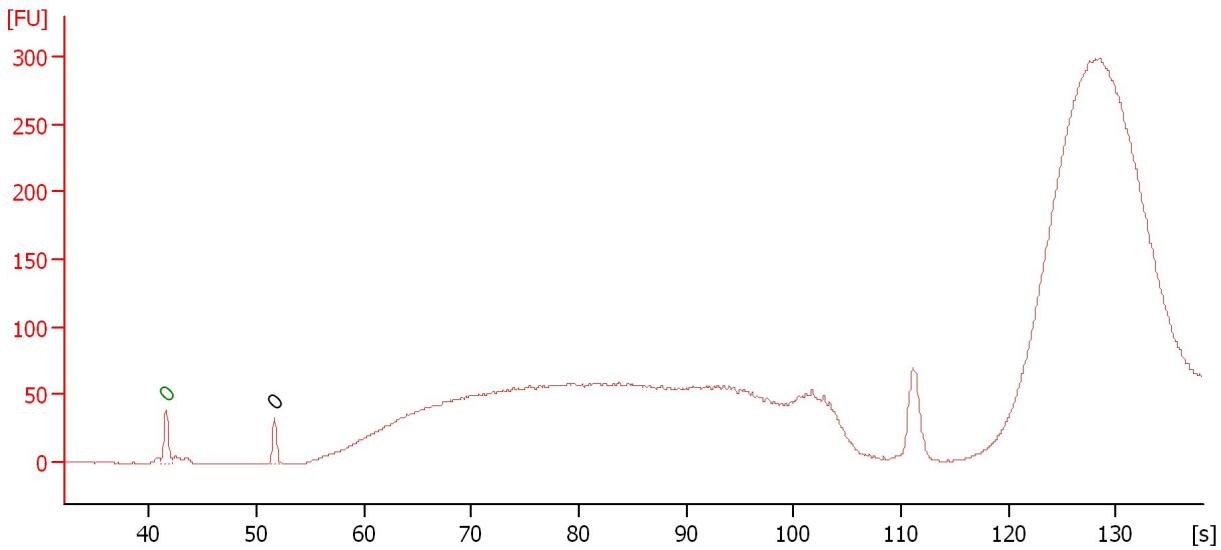
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	38.90
2	0	0.00	0.0		51.90
3	0	0.00	0.0		58.35
4	0	0.00	0.0		65.95
5	0	0.00	0.0		66.70
6	0	0.00	0.0		67.80
7	0	0.00	0.0		69.65
8	0	0.00	0.0		71.15
9	0	0.00	0.0		73.40
10	0	0.00	0.0		76.30
11	0	0.00	0.0		76.85
12	0	0.00	0.0		79.20
13	0	0.00	0.0		83.25
14	0	0.00	0.0		84.35
15	0	0.00	0.0		86.85

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

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Electropherogram Summary Continued ...

CPC 18 library [HiSeq_248]



Overall Results for sample 10 : CPC 18 library

Number of peaks found: 1 Noise: 0.3

Peak table for sample 10 : CPC 18 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	41.60
2	0	0.00	0.0		51.70

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/5/2015 1:45:40 PM

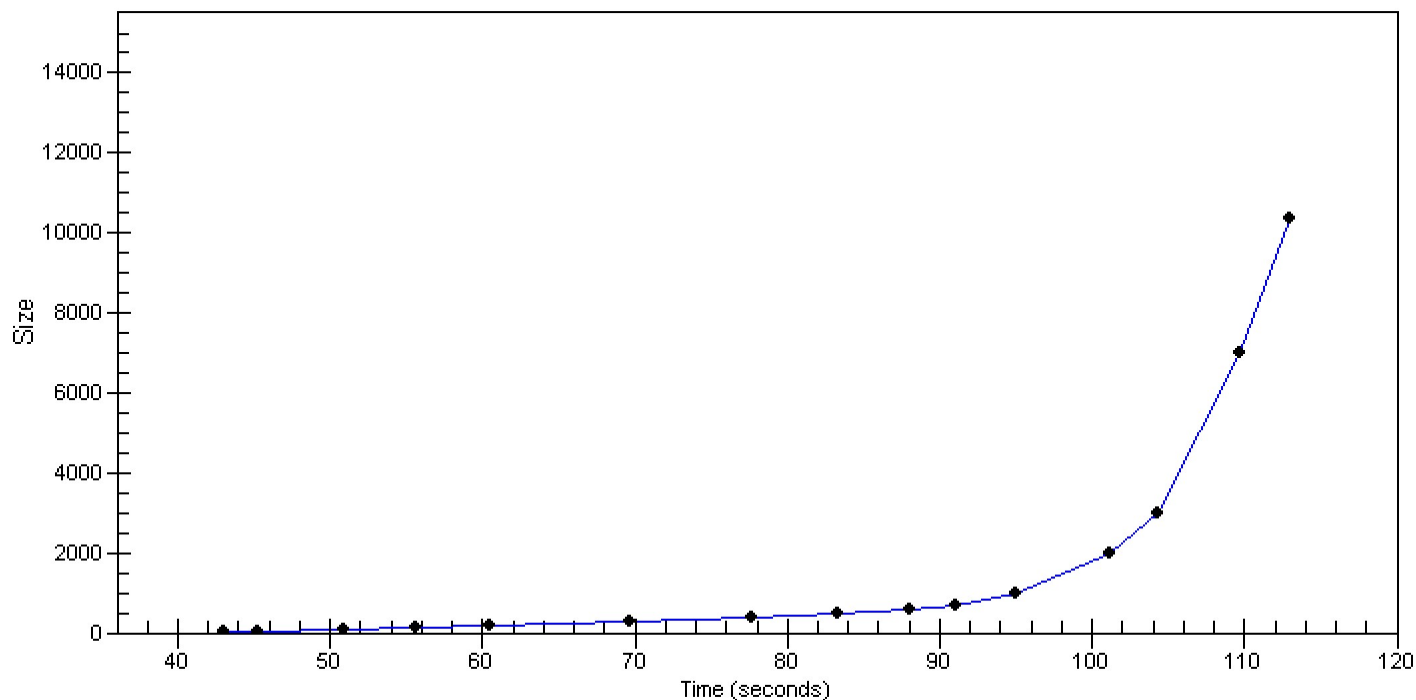
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/5/2015 1:45:40 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ioanalyzer\2015-10-01\2015-10-01_003_HiSeq248_Libraries.xad

Created: 10/1/2015 3:52:48 PM
 Modified: 10/5/2015 1:45:40 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		10/1/2015 4:34:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad)		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/1/2015 3:52:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1