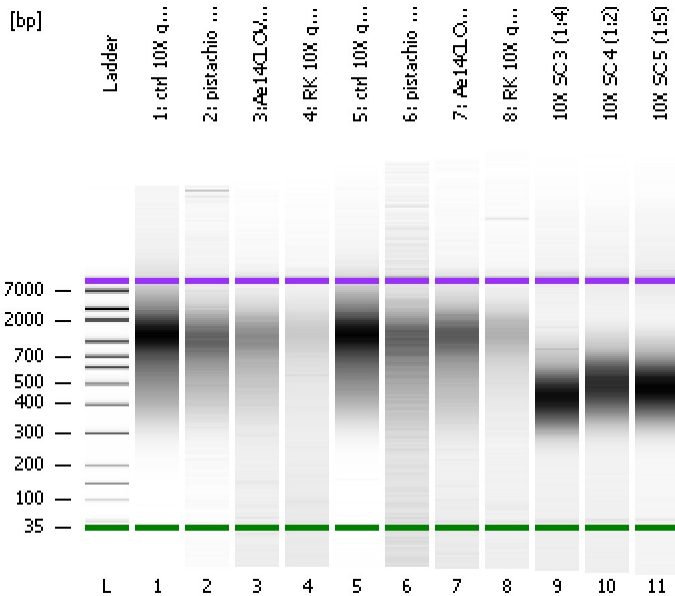


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
Modified: 9/16/2016 2:21:11 PM

Electrophoresis File Run Summary



Instrument Information:

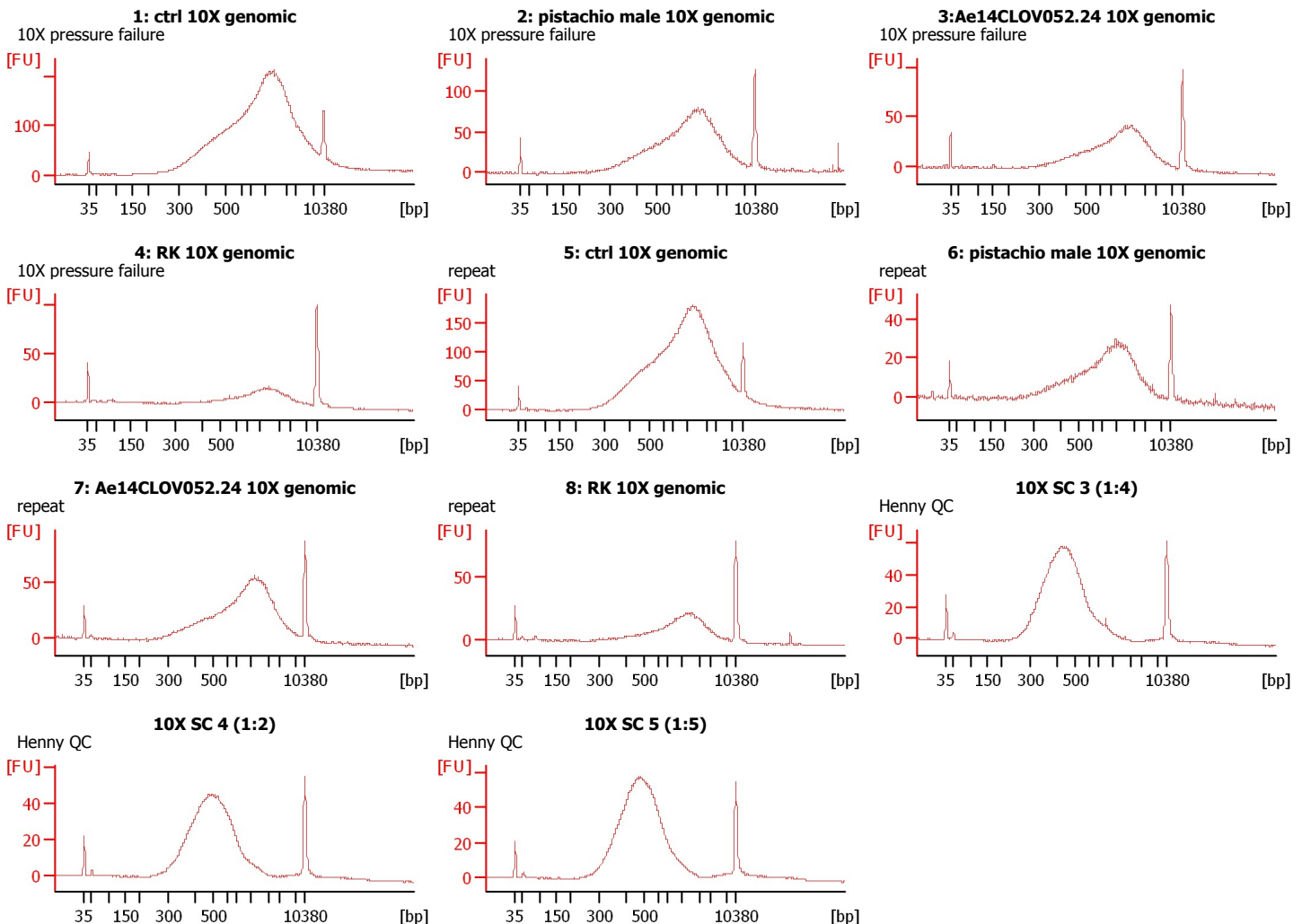
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
Modified: 9/16/2016 2:21:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1: ctrl 10X genomic	10X pressure failure	<input type="checkbox"/>	✓			
2: pistachio male 10X genomic	10X pressure failure	<input type="checkbox"/>	✓			
3:Ae14CLOV052.24 10X genomic	10X pressure failure	<input type="checkbox"/>	✓			
4: RK 10X genomic	10X pressure failure	<input type="checkbox"/>	✓			
5: ctrl 10X genomic	repeat	<input type="checkbox"/>	✓			
6: pistachio male 10X genomic	repeat	<input type="checkbox"/>	✓			
7: Ae14CLOV052.24 10X genomic	repeat	<input type="checkbox"/>	✓			
8: RK 10X genomic	repeat	<input type="checkbox"/>	✓			
10X SC 3 (1:4)	Henny QC	<input type="checkbox"/>	✓			
10X SC 4 (1:2)	Henny QC	<input type="checkbox"/>	✓			
10X SC 5 (1:5)	Henny QC	<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\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
Modified: 9/16/2016 2:21:11 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/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

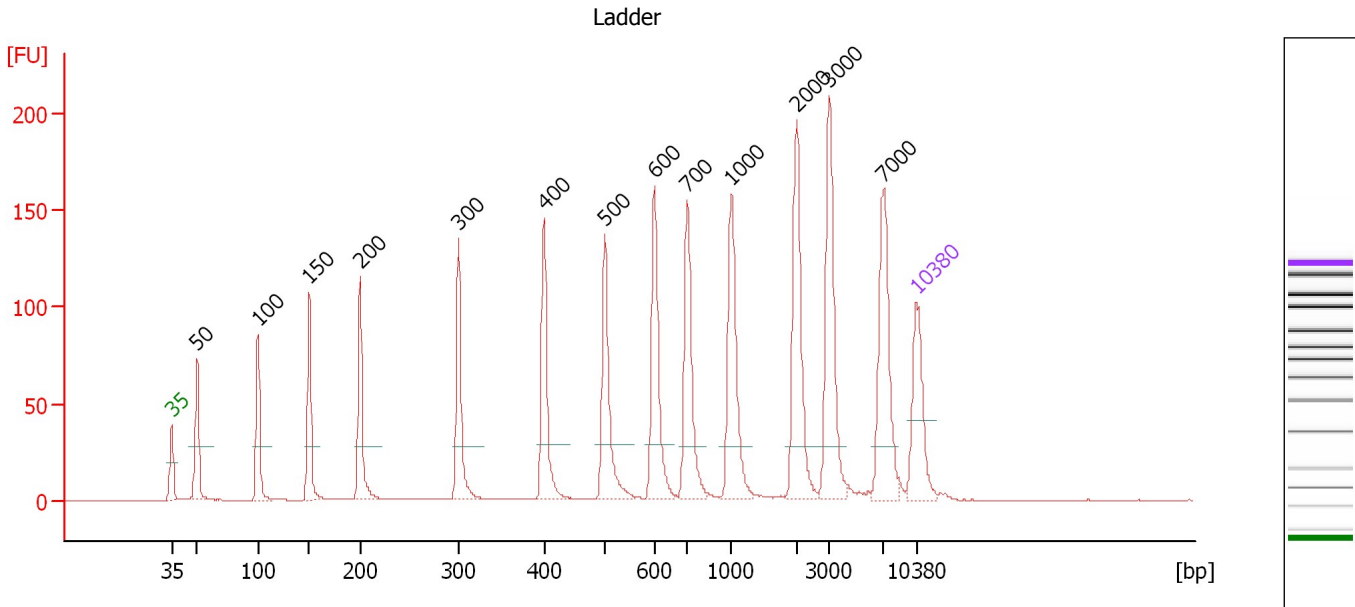
Ladder

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\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

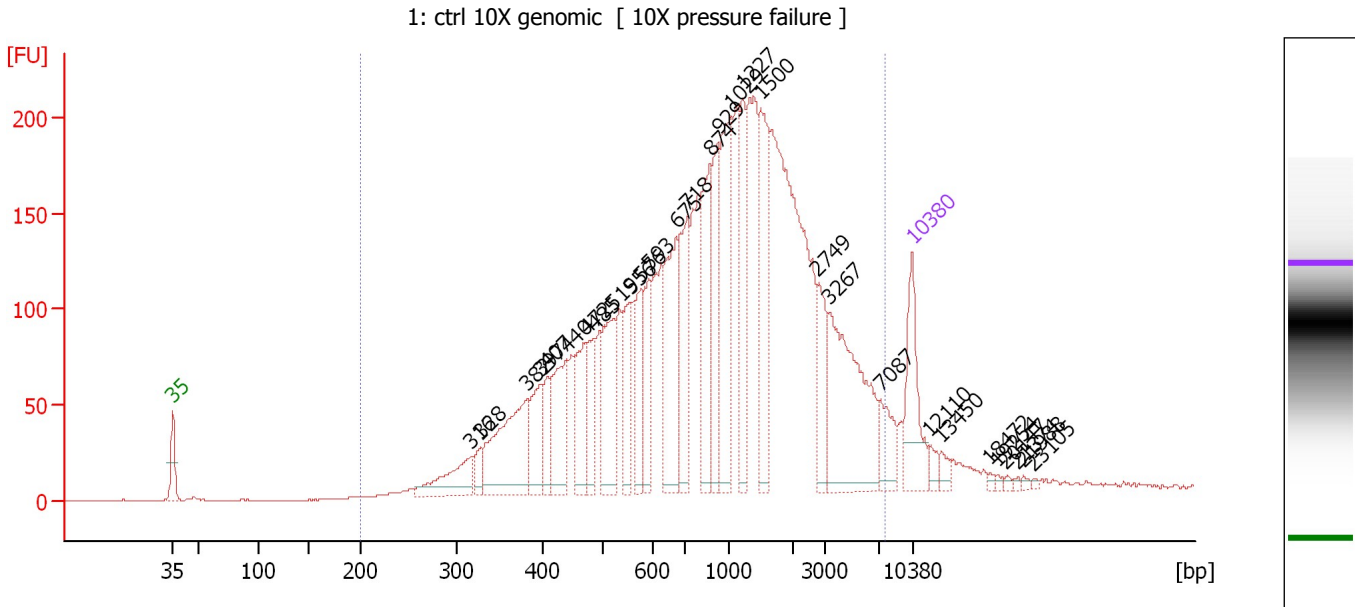
Peak table for Ladder

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	45.41
3	100	150.00	2,272.7	Ladder Peak	51.12
4	150	150.00	1,515.2	Ladder Peak	55.93
5	200	150.00	1,136.4	Ladder Peak	60.74
6	300	150.00	757.6	Ladder Peak	69.96
7	400	150.00	568.2	Ladder Peak	78.03
8	500	150.00	454.5	Ladder Peak	83.74
9	600	150.00	378.8	Ladder Peak	88.40
10	700	150.00	324.7	Ladder Peak	91.45
11	1,000	150.00	227.3	Ladder Peak	95.61
12	2,000	150.00	113.6	Ladder Peak	101.73
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.94
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1: ctrl 10X genomic

Number of peaks found: 30 Corr. Area 1: 4,562.5
 Noise: 0.2

Peak table for sample 1 : 1: ctrl 10X genomic

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	316	76.14	364.9		71.26
3	328	22.19	102.5		72.22
4	382	173.31	687.7		76.56
5	397	72.29	276.0		77.77
6	407	42.59	158.5		78.43
7	440	103.68	357.2		80.30
8	472	80.39	258.3		82.11
9	485	49.96	156.1		82.87
10	519	114.47	334.0		84.64
11	556	72.52	197.6		86.35
12	576	61.43	161.7		87.26
13	593	66.97	171.1		88.07
14	675	145.36	326.2		90.69
15	718	113.15	238.8		91.70
16	874	116.08	201.1		93.87
17	929	95.64	156.0		94.63
18	1,029	150.25	221.2		95.79
19	1,227	100.63	124.2		97.00
20	1,500	122.85	124.1		98.67
21	2,749	60.69	33.4		104.02
22	3,267	184.59	85.6		105.13
23	7,087	42.18	9.0		110.02
24	10,380	75.00	10.9	Upper Marker	113.00
25	12,110	0.00	0.0		114.56

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : 1: ctrl 10X genomic

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,450	0.00	0.0		115.78
27	18,472	0.00	0.0		120.32
28	19,254	0.00	0.0		121.02
29	20,147	0.00	0.0		121.83
30	21,374	0.00	0.0		122.94
31	21,988	0.00	0.0		123.50
32	23,105	0.00	0.0		124.51

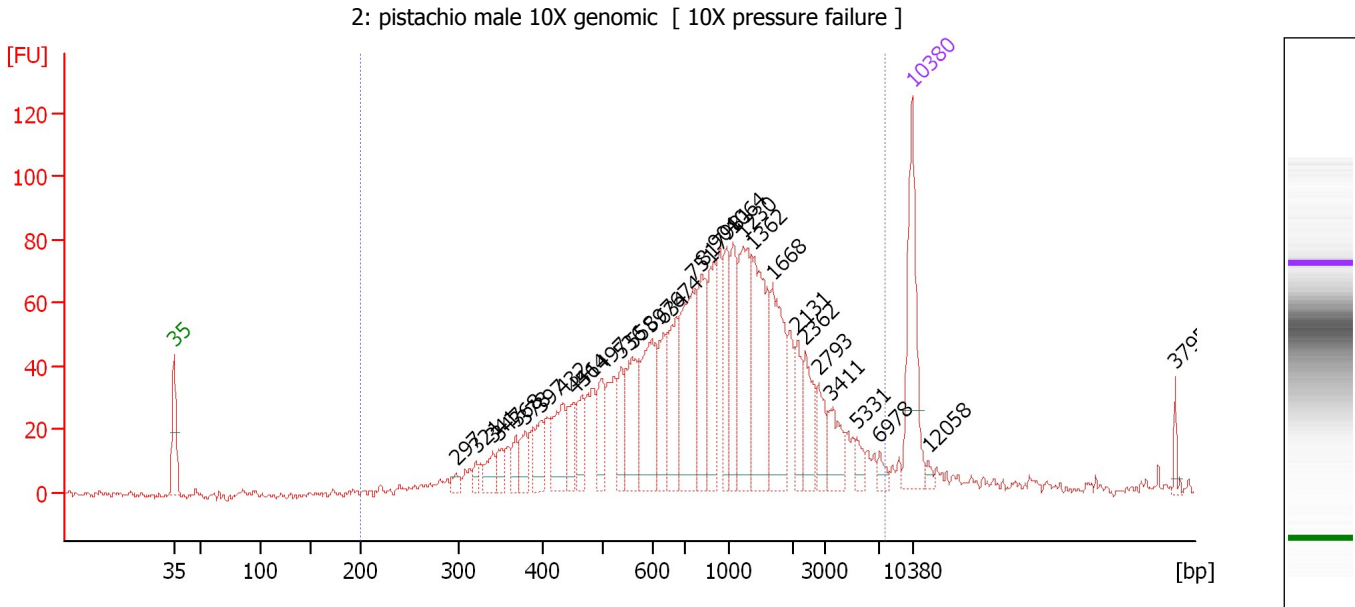
Region table for sample 1 : 1: ctrl 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,432	1,407	4,562.5	6,626.0	3,139.01	96	92.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2: pistachio male 10X genomic

Number of peaks found: 32 Corr. Area 1: 1,607.7
 Noise: 1.1

Peak table for sample 2 : 2: pistachio male 10X genomic

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	297	9.09	46.3		69.71
3	321	8.77	41.4		71.63
4	341	18.24	81.1		73.25
5	347	15.57	68.0		73.75
6	368	19.21	79.2		75.42
7	378	21.04	84.3		76.28
8	397	26.98	102.9		77.80
9	432	50.96	178.6		79.87
10	451	27.95	93.9		80.93
11	464	31.39	102.5		81.69
12	497	35.73	108.9		83.56
13	536	35.17	99.3		85.43
14	558	55.25	150.0		86.45
15	597	78.94	200.3		88.27
16	634	48.54	116.0		89.43
17	674	56.22	126.5		90.64
18	751	100.30	202.3		92.16
19	817	62.98	116.8		93.07
20	904	60.29	101.0		94.29
21	981	44.89	69.3		95.35
22	1,064	50.52	71.9		96.01
23	1,230	84.73	104.4		97.02
24	1,362	97.34	108.3		97.83
25	1,668	75.73	68.8		99.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 2: pistachio male 10X genomic

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,131	23.33	16.6		102.13
27	2,362	34.94	22.4		102.83
28	2,793	22.69	12.3		104.15
29	3,411	25.88	11.5		105.31
30	5,331	9.78	2.8		107.79
31	6,978	6.83	1.5		109.91
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,058	0.00	0.0		114.52
34	37,954	0.00	0.0		137.93

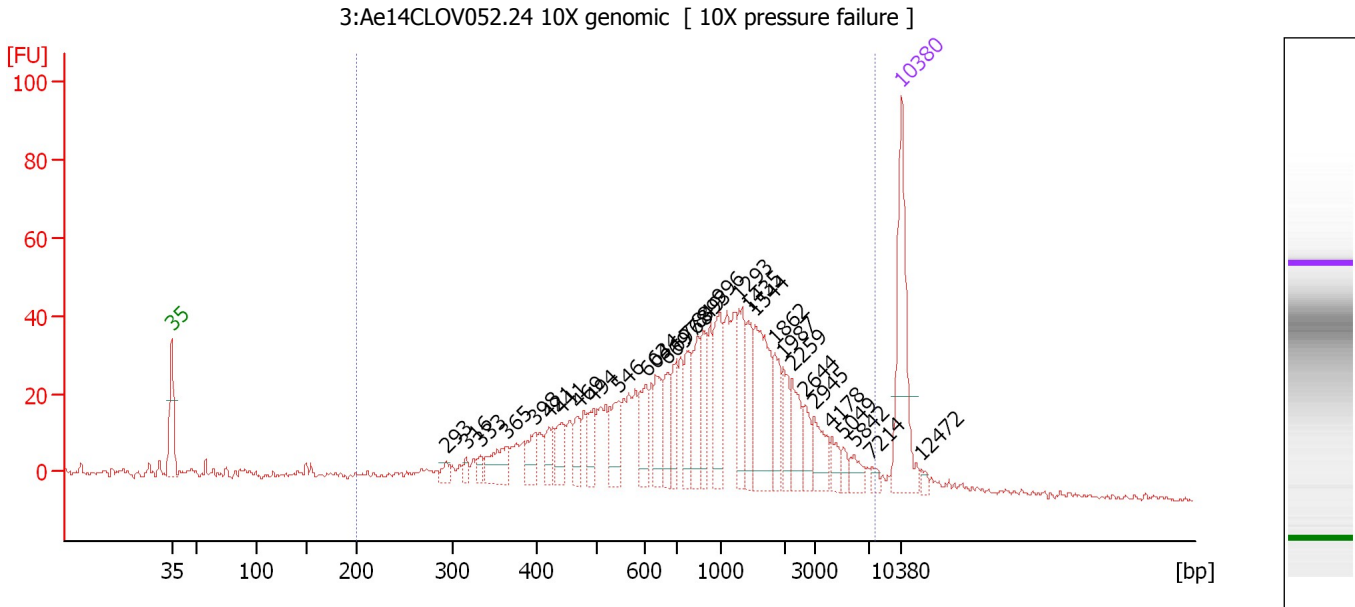
Region table for sample 2 : 2: pistachio male 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,425	1,212	1,607.7	3,201.3	1,463.22	98	88.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3:Ae14CLOV052.24 10X genomic

Number of peaks found: 31 Corr. Area 1: 974.0
 Noise: 0.7

Peak table for sample 3 : 3:Ae14CLOV052.24 10X genomic

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	293	8.10	41.9		69.33
3	316	6.57	31.5		71.22
4	333	8.47	38.6		72.61
5	365	32.07	133.3		75.16
6	398	21.56	82.0		77.87
7	421	15.96	57.4		79.25
8	441	22.20	76.2		80.38
9	469	17.71	57.2		81.96
10	494	19.32	59.3		83.39
11	546	31.40	87.1		85.90
12	604	29.85	74.9		88.51
13	634	31.32	74.9		89.43
14	669	25.55	57.9		90.50
15	697	25.60	55.6		91.37
16	768	31.09	61.3		92.39
17	849	34.14	60.9		93.52
18	893	29.18	49.5		94.13
19	996	43.89	66.7		95.56
20	1,293	38.27	44.8		97.40
21	1,435	28.88	30.5		98.27
22	1,544	65.20	64.0		98.94
23	1,862	25.66	20.9		100.88
24	1,987	19.66	15.0		101.65
25	2,259	25.31	17.0		102.52

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 3:Ae14CLOV052.24 10X genomic

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,644	15.98	9.2		103.69
27	2,945	22.71	11.7		104.61
28	4,178	9.90	3.6		106.30
29	5,049	6.51	2.0		107.43
30	5,842	10.18	2.6		108.45
31	7,214	4.80	1.0		110.14
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,472	0.00	0.0		114.89

Region table for sample 3 : 3:Ae14CLOV052.24 10X genomic

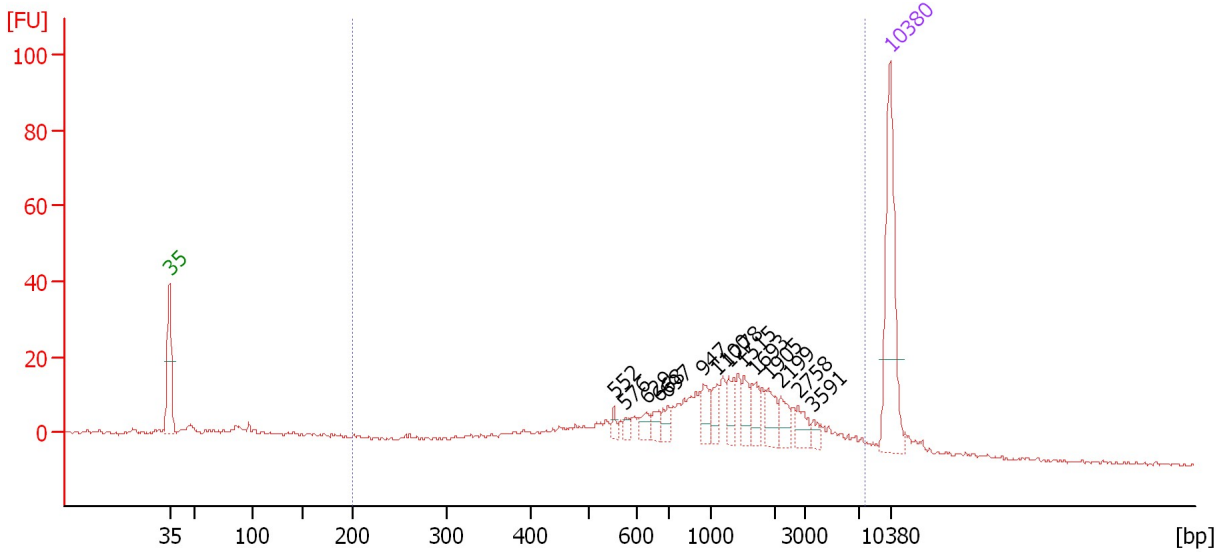
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,590	1,273	974.0	2,306.7	1,028.78	94	91.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

4: RK 10X genomic [10X pressure failure]



Overall Results for sample 4 : 4: RK 10X genomic

Number of peaks found: 14 Corr. Area 1: 394.7
 Noise: 0.5

Peak table for sample 4 : 4: RK 10X genomic

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	552	5.11	14.0		86.18
3	576	5.38	14.2		87.27
4	629	8.98	21.6		89.29
5	668	8.34	18.9		90.48
6	697	8.98	19.5		91.36
7	947	14.64	23.4		94.88
8	1,100	13.61	18.7		96.22
9	1,278	12.59	14.9		97.31
10	1,515	13.39	13.4		98.76
11	1,693	14.37	12.9		99.85
12	1,905	14.54	11.6		101.14
13	2,199	12.13	8.4		102.33
14	2,758	10.91	6.0		104.04
15	3,591	5.34	2.3		105.54
16	10,380	75.00	10.9	Upper Marker	113.00

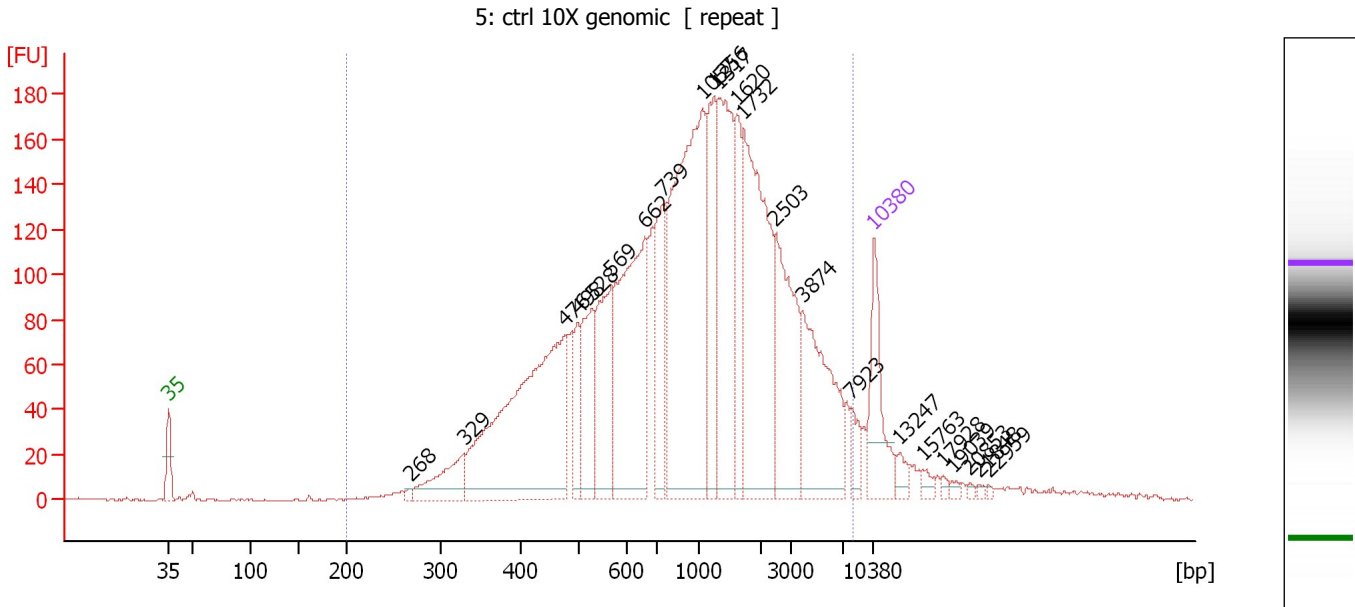
Region table for sample 4 : 4: RK 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,576	1,497	394.7	835.8	394.67	82	90.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5: ctrl 10X genomic

Number of peaks found: 23 Corr. Area 1: 3,995.8
 Noise: 0.3

Peak table for sample 5 : 5: ctrl 10X genomic

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	268	4.70	26.5		67.02
3	329	75.95	349.6		72.31
4	476	478.56	1,523.4		82.37
5	498	51.69	157.2		83.63
6	528	109.10	312.8		85.06
7	569	133.66	355.7		86.97
8	662	299.67	685.5		90.30
9	739	106.13	217.6		91.99
10	1,057	429.02	614.8		95.96
11	1,256	126.93	153.1		97.18
12	1,317	193.13	222.2		97.55
13	1,620	85.02	79.5		99.40
14	1,732	279.58	244.5		100.09
15	2,503	152.26	92.2		103.26
16	3,874	158.14	61.8		105.91
17	7,923	22.13	4.2		110.78
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,247	0.00	0.0		115.59
20	15,763	0.00	0.0		117.87
21	17,928	0.00	0.0		119.83
22	19,039	0.00	0.0		120.83
23	20,853	0.00	0.0		122.47
24	21,848	0.00	0.0		123.37
25	22,959	0.00	0.0		124.38

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

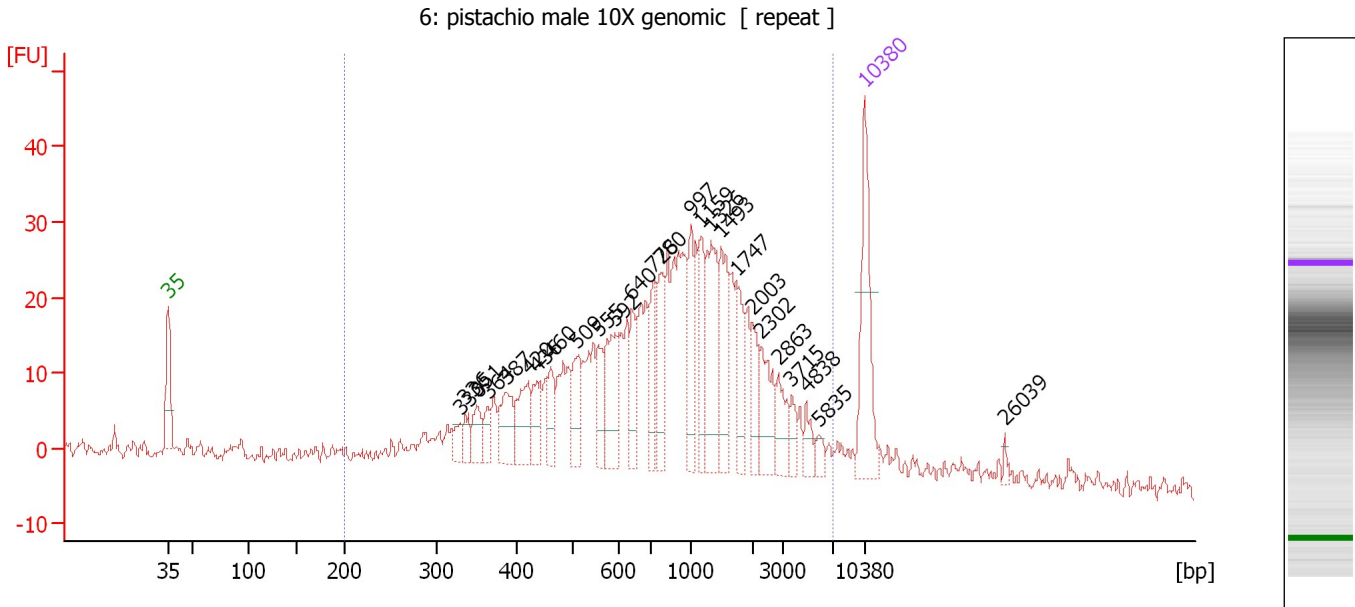
... Region table for sample 5 : 5: ctrl 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,121	1,489	3,995.8	5,977.5	■ 2,905.98	96	96.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6: pistachio male 10X genomic

Number of peaks found: 26 Corr. Area 1: 671.4
 Noise: 1.2

Peak table for sample 6 : 6: pistachio male 10X genomic

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	330	13.99	64.3		72.34
3	336	17.09	77.0		72.88
4	351	25.07	108.3		74.06
5	364	16.35	68.0		75.13
6	387	41.82	163.9		76.95
7	420	46.72	168.6		79.15
8	436	31.26	108.7		80.07
9	460	26.90	88.6		81.46
10	509	38.86	115.7		84.14
11	555	30.03	82.0		86.29
12	592	57.10	146.3		88.00
13	640	36.14	85.6		89.61
14	726	42.21	88.1		91.81
15	780	50.66	98.4		92.56
16	997	42.68	64.9		95.57
17	1,159	41.32	54.0		96.59
18	1,326	74.45	85.1		97.61
19	1,493	55.78	56.6		98.62
20	1,747	35.34	30.7		100.18
21	2,003	25.50	19.3		101.74
22	2,302	38.70	25.5		102.65
23	2,863	24.41	12.9		104.36
24	3,715	12.19	5.0		105.70
25	4,838	13.23	4.1		107.15

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 6: pistachio male 10X genomic

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,835	8.85	2.3		108.44
27	10,380	75.00	10.9	Upper Marker	113.00
28	26,039	0.00	0.0		127.16

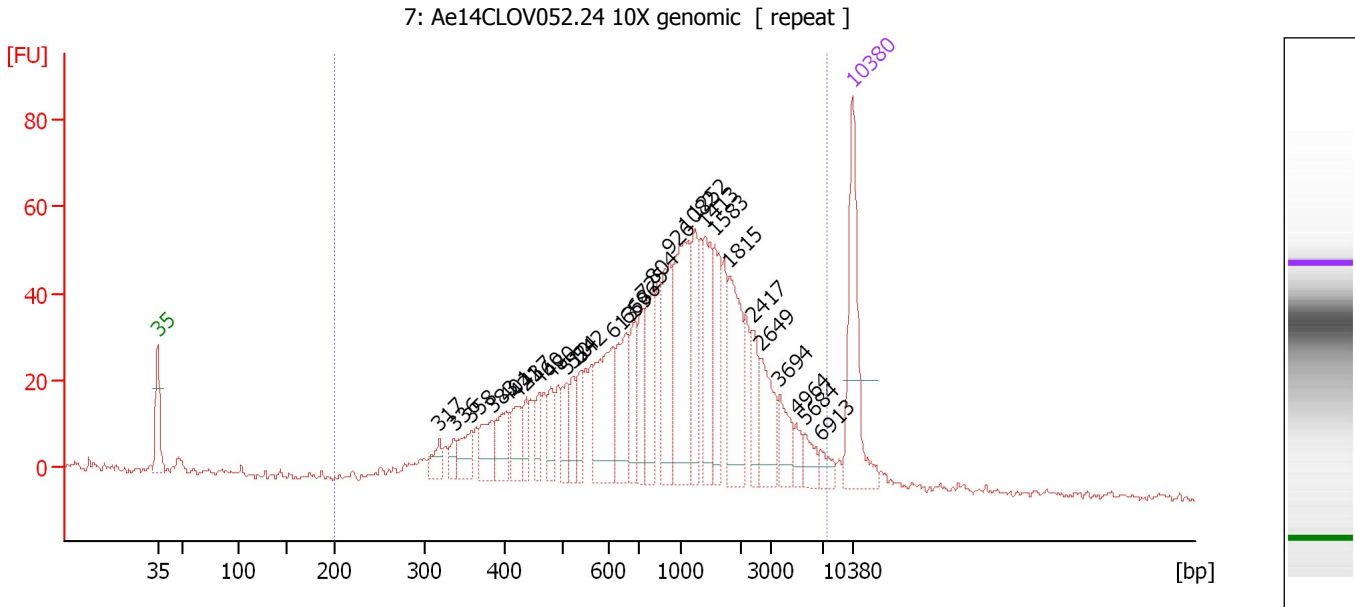
Region table for sample 6 : 6: pistachio male 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	6,969	1,178	671.4	3,342.6	1,424.61	91	87.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7: Ae14CLOV052.24 10X genomic

Number of peaks found: 29 Corr. Area 1: 1,187.1
 Noise: 0.7

Peak table for sample 7 : 7: Ae14CLOV052.24 10X genomic

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	317	17.29	82.6		71.36
3	336	11.86	53.4		72.89
4	358	24.74	104.7		74.64
5	383	30.71	121.5		76.66
6	401	31.85	120.3		78.08
7	421	29.50	106.2		79.23
8	437	18.49	64.1		80.16
9	460	19.79	65.1		81.47
10	480	22.40	70.6		82.62
11	510	21.49	63.8		84.20
12	524	22.40	64.8		84.86
13	542	23.05	64.5		85.68
14	613	76.63	189.4		88.79
15	659	54.17	124.5		90.21
16	686	33.59	74.2		91.03
17	725	33.20	69.4		91.80
18	804	53.30	100.5		92.89
19	926	59.86	98.0		94.58
20	1,082	101.17	141.7		96.11
21	1,252	39.64	48.0		97.15
22	1,413	54.66	58.6		98.14
23	1,583	42.75	40.9		99.17
24	1,815	63.80	53.3		100.60
25	2,417	24.69	15.5		103.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 7: Ae14CLOV052.24 10X genomic

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,649	37.78	21.6		103.71
27	3,694	22.16	9.1		105.68
28	4,964	10.15	3.1		107.32
29	5,684	12.43	3.3		108.25
30	6,913	10.51	2.3		109.83
31	10,380	75.00	10.9	Upper Marker	113.00

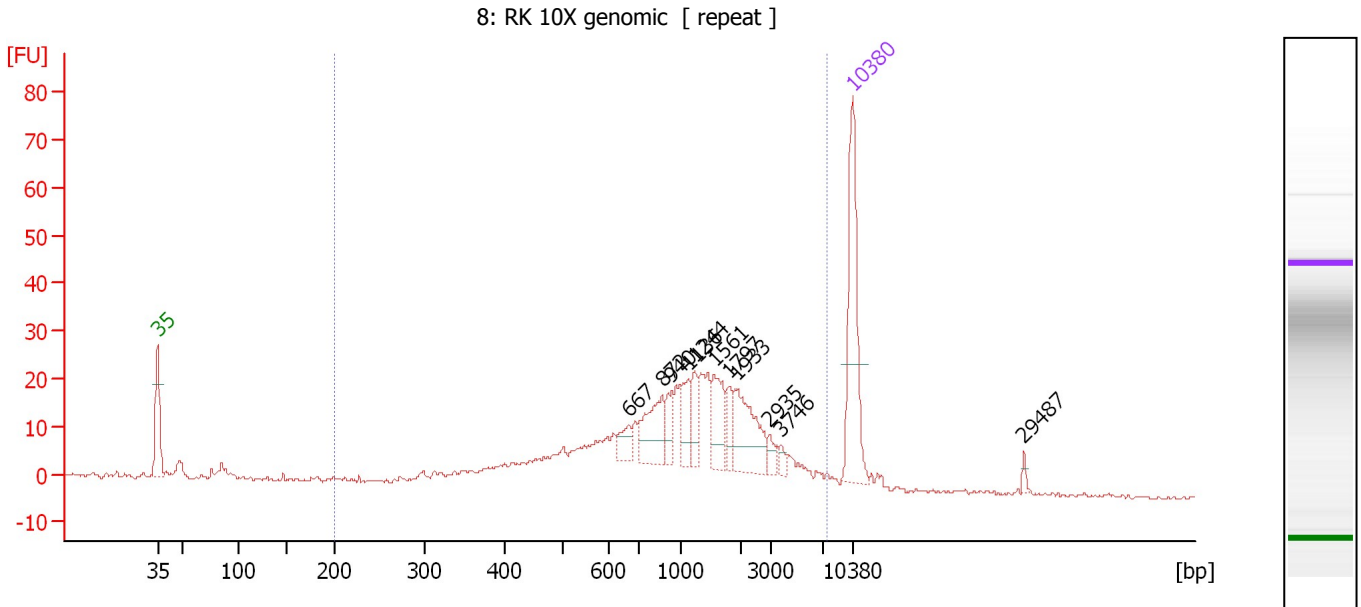
Region table for sample 7 : 7: Ae14CLOV052.24 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,472	1,325	1,187.1	2,692.2	1,258.65	96	89.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8: RK 10X genomic

Number of peaks found: 11 Corr. Area 1: 420.9
 Noise: 0.5

Peak table for sample 8 : 8: RK 10X genomic

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	667	13.98	31.7		90.46
3	872	40.87	71.0		93.84
4	940	13.57	21.9		94.78
5	1,136	22.53	30.1		96.44
6	1,244	17.76	21.6		97.11
7	1,561	30.05	29.2		99.04
8	1,797	13.39	11.3		100.48
9	1,933	46.61	36.5		101.31
10	2,935	7.15	3.7		104.58
11	3,746	4.31	1.7		105.75
12	10,380	75.00	10.9	Upper Marker	113.00
13	29,487	0.00	0.0		130.28

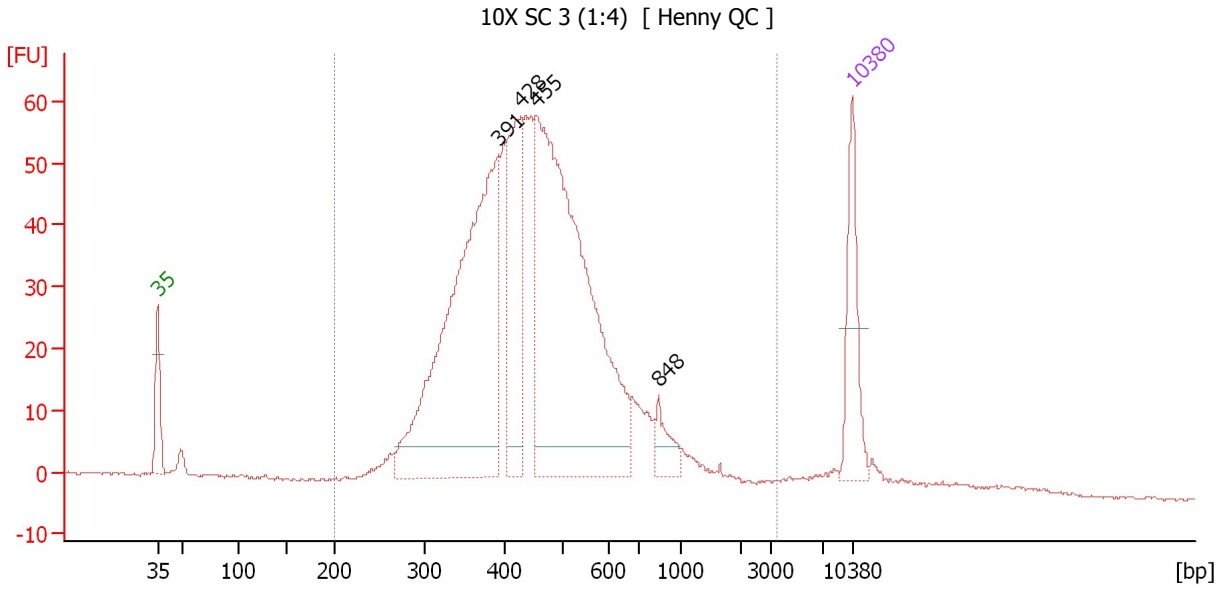
Region table for sample 8 : 8: RK 10X genomic

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,471	1,453	420.9	1,007.5	537.35	93	82.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 10X SC 3 (1:4)

Number of peaks found: 4 Corr. Area 1: 1,117.4
 Noise: 0.3

Peak table for sample 9 : 10X SC 3 (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	391	606.65	2,348.3		77.33
3	428	187.02	662.4		79.61
4	455	695.00	2,314.4		81.17
5	848	29.32	52.4		93.50
6	10,380	75.00	10.9	Upper Marker	113.00

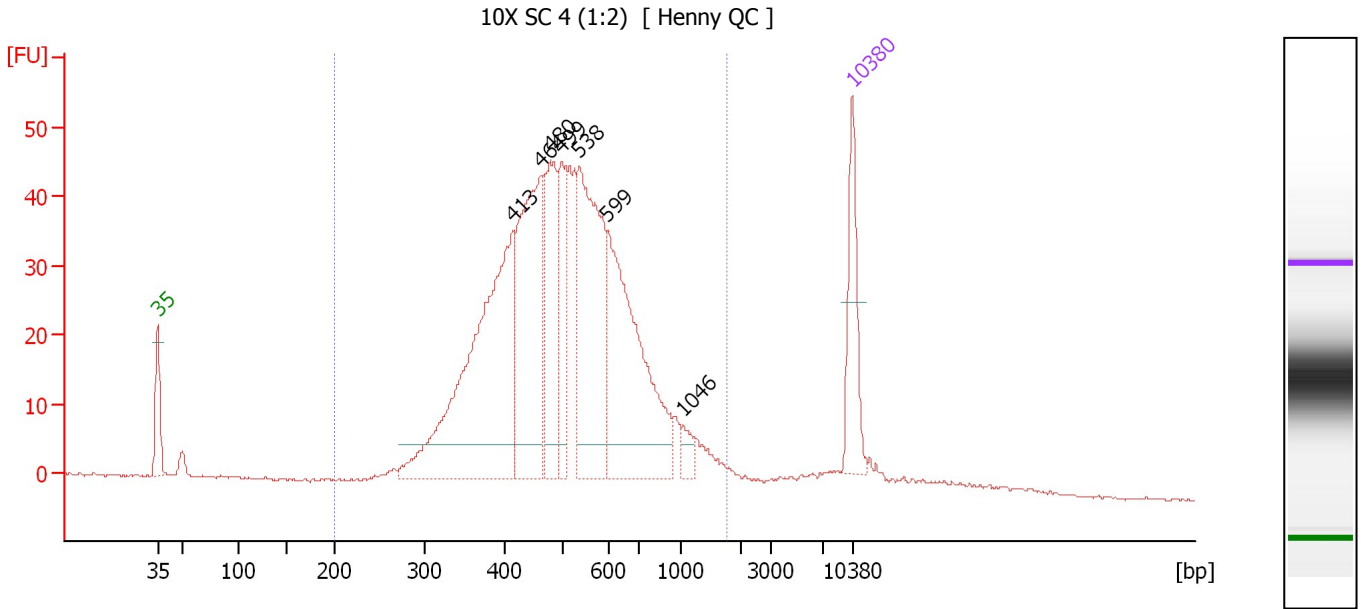
Region table for sample 9 : 10X SC 3 (1:4)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	3,463	491	1,117.4	6,846.7	1,929.33	95	49.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 10X SC 4 (1:2)

Number of peaks found: 7 Corr. Area 1: 874.3
 Noise: 0.2

Peak table for sample 10 : 10X SC 4 (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	413	478.31	1,753.6		78.78
3	464	292.04	953.3		81.69
4	480	153.98	486.2		82.58
5	499	108.00	327.7		83.70
6	538	274.16	772.6		85.49
7	599	297.40	752.5		88.34
8	1,046	17.14	24.8		95.89
9	10,380	75.00	10.9	Upper Marker	113.00

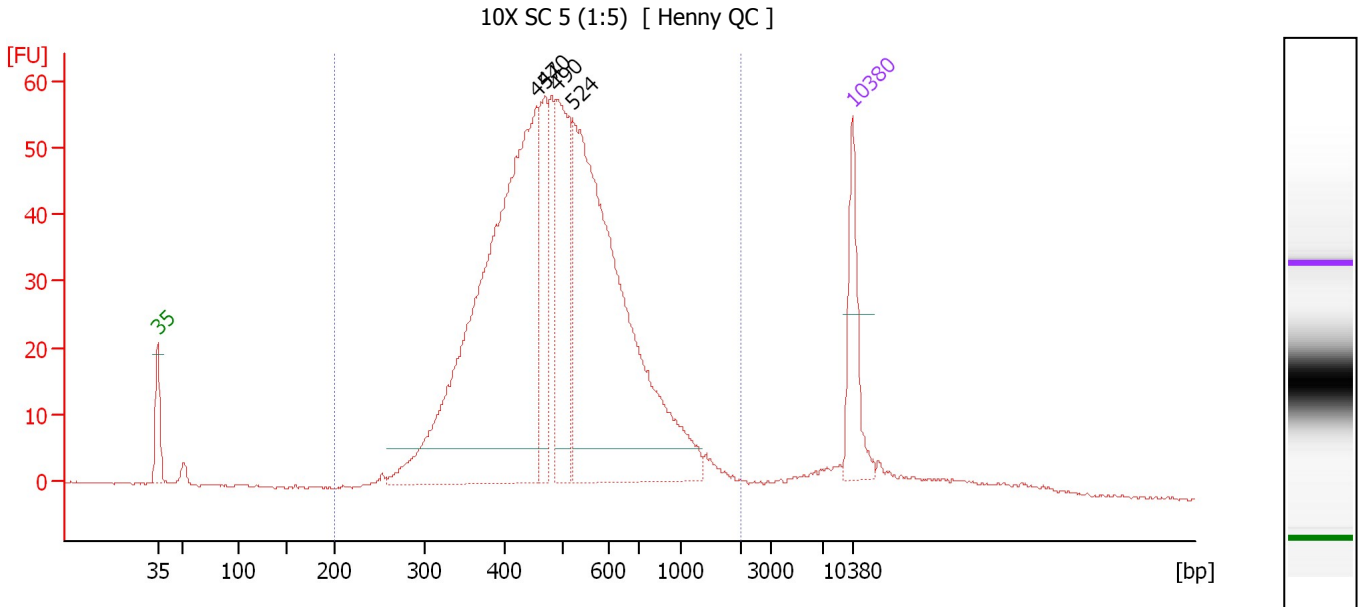
Region table for sample 10 : 10X SC 4 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,769	541	874.3	6,095.1	1,915.92	94	38.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

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 Modified: 9/16/2016 2:21:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 10X SC 5 (1:5)

Number of peaks found: 4 Corr. Area 1: 1,055.9
 Noise: 0.1

Peak table for sample 11 : 10X SC 5 (1:5)

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	454	874.73	2,920.9		81.09
3	470	129.04	415.6		82.05
4	490	191.18	590.9		83.18
5	524	715.78	2,068.9		84.86
6	10,380	75.00	10.9	Upper Marker	113.00

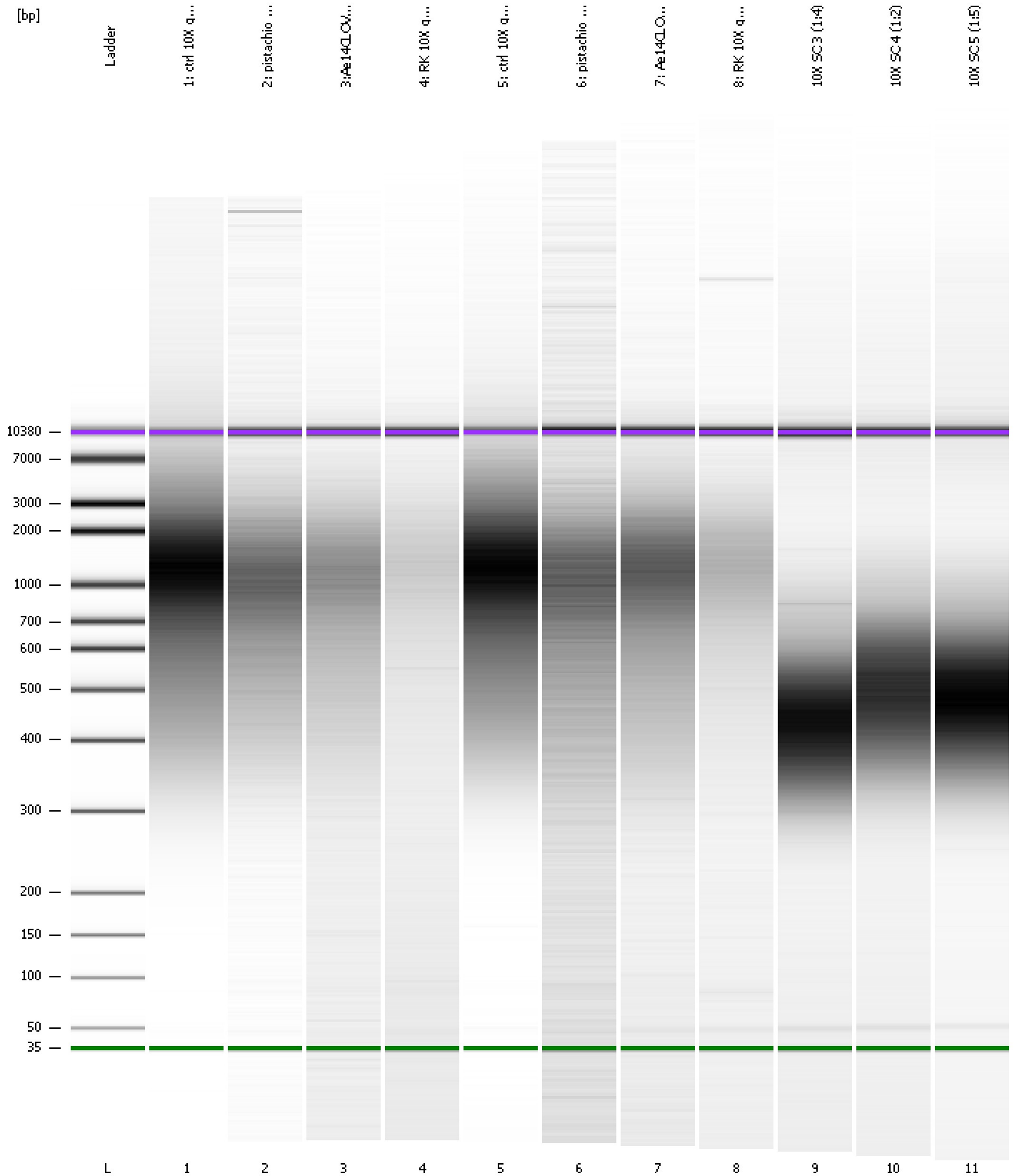
Region table for sample 11 : 10X SC 5 (1:5)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,022	528	1,055.9	6,997.0	2,155.23	94	39.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
Modified: 9/16/2016 2:21:11 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-16\2016-09-16_002.xad

Created: 9/16/2016 1:33:16 PM
 Modified: 9/16/2016 2:21:11 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		9/16/2016 2:14:32 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\2016-09-16\2016-09-16_002.xad)		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/16/2016 1:33:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1