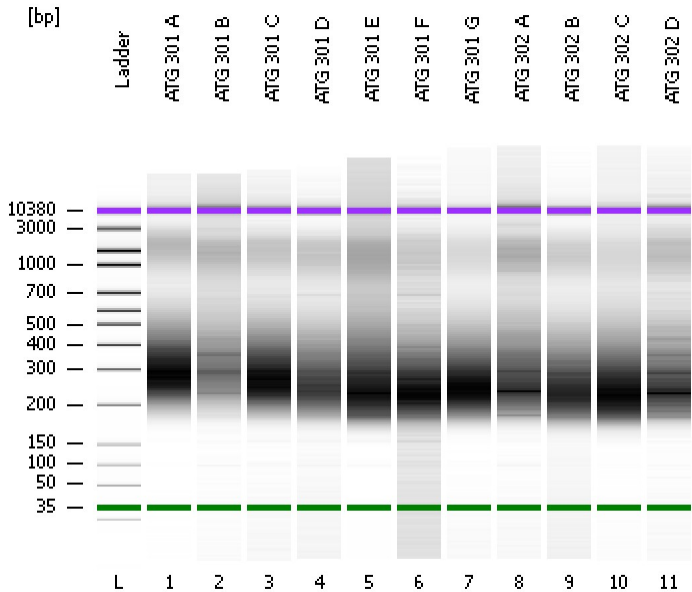


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 PM

Electrophoresis File Run Summary



Instrument Information:

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

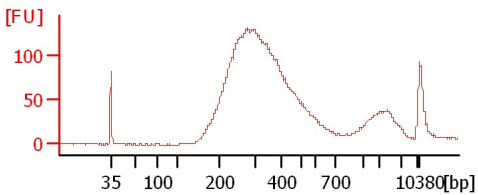
Assay Information:

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

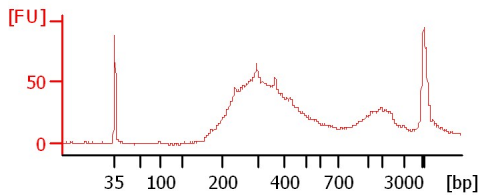
Chip Information:

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

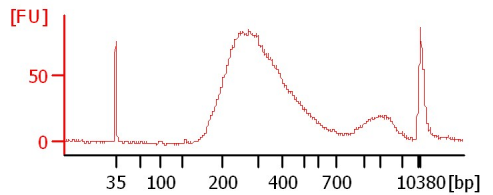
ATG 301 A



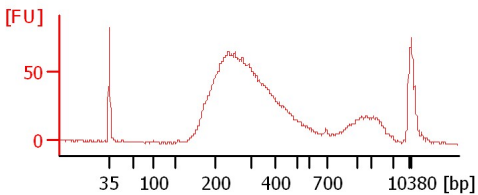
ATG 301 B



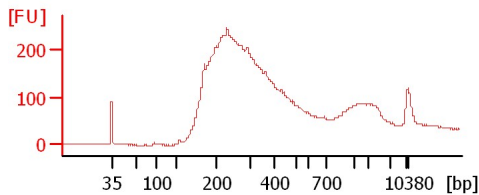
ATG 301 C



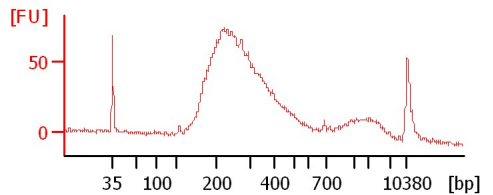
ATG 301 D



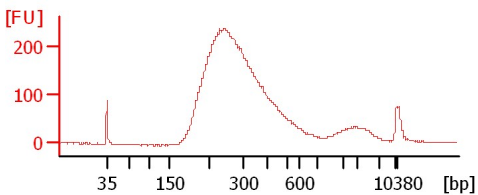
ATG 301 E



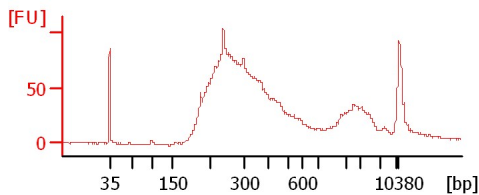
ATG 301 F



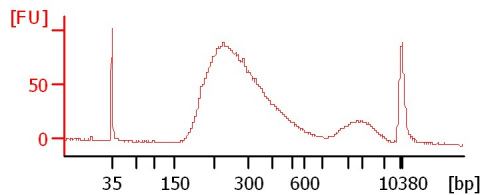
ATG 301 G



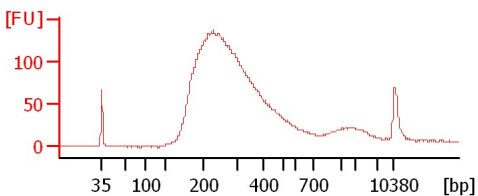
ATG 302 A



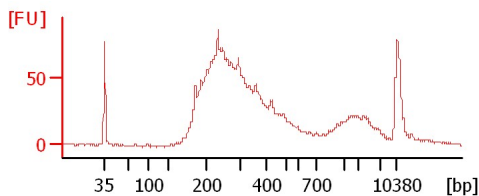
ATG 302 B



ATG 302 C



ATG 302 D



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ATG 301 A		<input type="checkbox"/>	✓			
ATG 301 B		<input type="checkbox"/>	✓			
ATG 301 C		<input type="checkbox"/>	✓			
ATG 301 D		<input type="checkbox"/>	✓			
ATG 301 E		<input type="checkbox"/>	✓			
ATG 301 F		<input type="checkbox"/>	✓			
ATG 301 G		<input type="checkbox"/>	✓			
ATG 302 A		<input type="checkbox"/>	✓			
ATG 302 B		<input type="checkbox"/>	✓			
ATG 302 C		<input type="checkbox"/>	✓			
ATG 302 D		<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\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 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

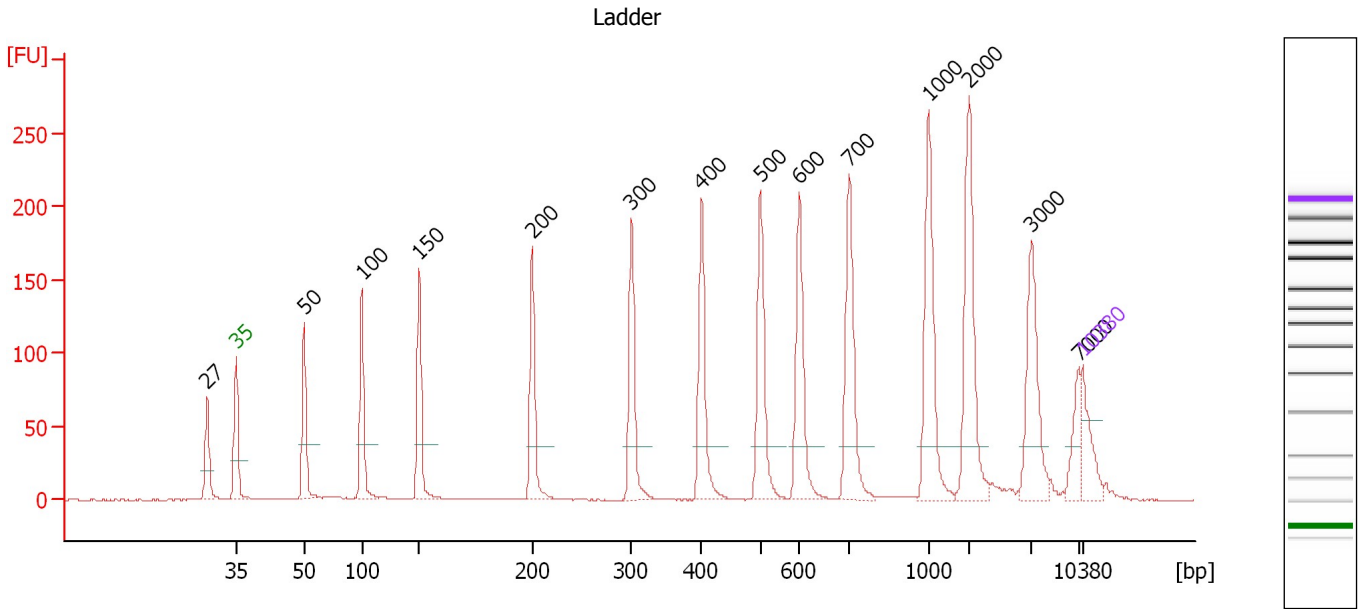
Ladder

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\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

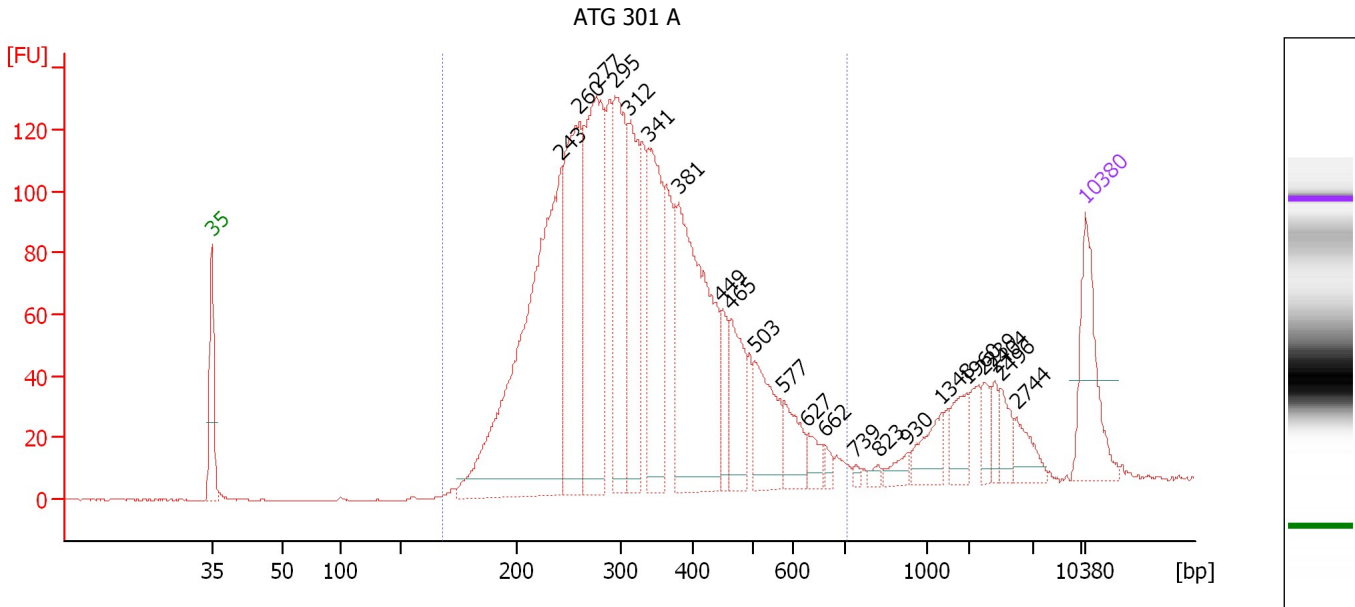
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	27	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	150	150.00	1,515.2	Ladder Peak
6	200	150.00	1,136.4	Ladder Peak
7	300	150.00	757.6	Ladder Peak
8	400	150.00	568.2	Ladder Peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ATG 301 A

Number of peaks found: 22 Corr. Area 1: 2,706.5
 Noise: 0.2

Peak table for sample 1 : ATG 301 A


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	609.74	3,805.1	
3	260	307.54	1,788.7	
4	277	319.84	1,748.4	
5	295	215.66	1,108.1	
6	312	166.49	808.6	
7	341	197.21	876.7	
8	381	325.44	1,292.5	
9	449	46.95	158.5	
10	465	81.02	264.2	
11	503	88.70	267.1	
12	577	42.25	110.9	
13	627	20.08	48.5	
14	662	8.92	20.4	
15	739	4.46	9.1	
16	823	5.77	10.6	
17	930	14.08	22.9	
18	1,348	32.91	37.0	
19	1,960	29.65	22.9	
20	2,239	16.31	11.0	
21	2,404	12.52	7.9	
22	2,496	20.48	12.4	
23	2,744	22.74	12.6	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

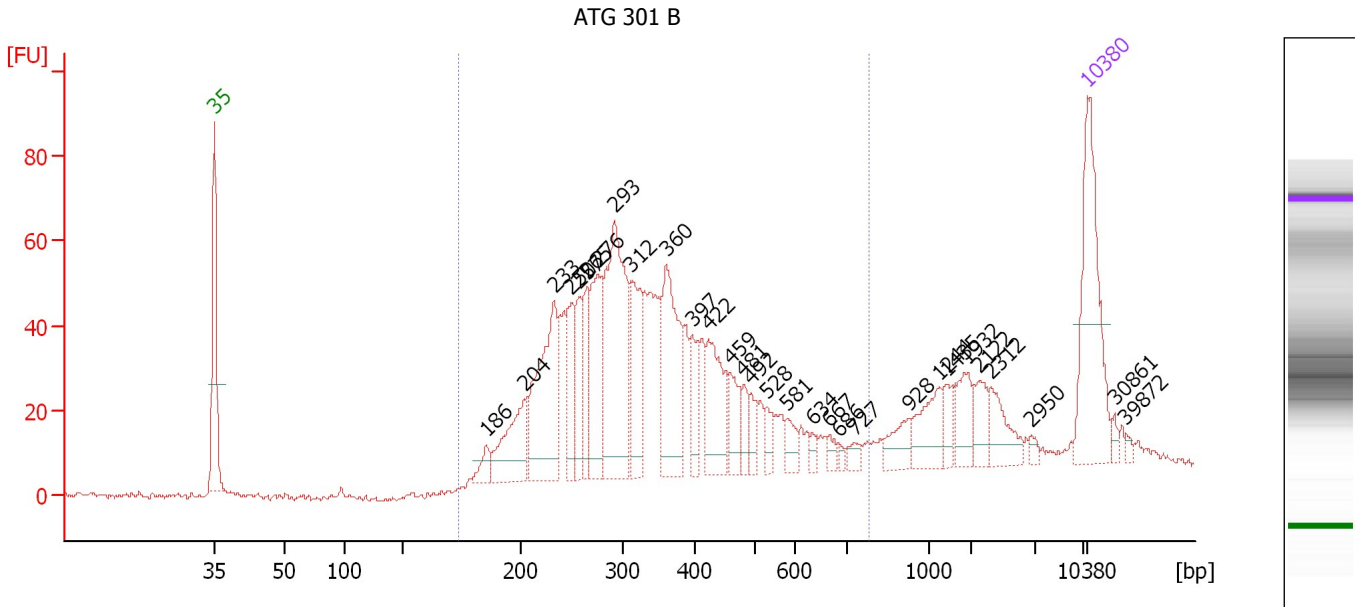
... Region table for sample 1 : ATG 301 A

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
168	712	335	13,954.4	2,731.45	 2,706.5	91	31.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ATG 301 B

Number of peaks found: 30 Corr. Area 1: 1,114.5
 Noise: 0.7

Peak table for sample 2 : ATG 301 B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	186	14.42	117.7	
3	204	62.46	463.0	
4	233	119.27	775.3	
5	250	40.47	245.0	
6	257	38.60	227.5	
7	265	36.69	209.4	
8	276	70.10	384.4	
9	293	155.03	803.0	
10	312	62.13	301.4	
11	360	91.69	385.4	
12	397	26.74	102.1	
13	422	54.66	196.1	
14	459	23.73	78.3	
15	481	12.03	37.9	
16	492	13.12	40.4	
17	528	10.99	31.5	
18	581	10.81	28.2	
19	634	5.23	12.5	
20	667	5.74	13.0	
21	686	3.08	6.8	
22	727	6.63	13.8	
23	928	16.87	27.5	
24	1,244	27.74	33.8	
25	1,435	10.53	11.1	
26	1,932	18.73	14.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad


Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : ATG 301 B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,122	14.58	10.4	
28	2,312	20.23	13.3	
29	2,950	3.14	1.6	
30	10,380	75.00	10.9	Upper Marker
31	30,861	0.00	0.0	
32	39,872	0.00	0.0	

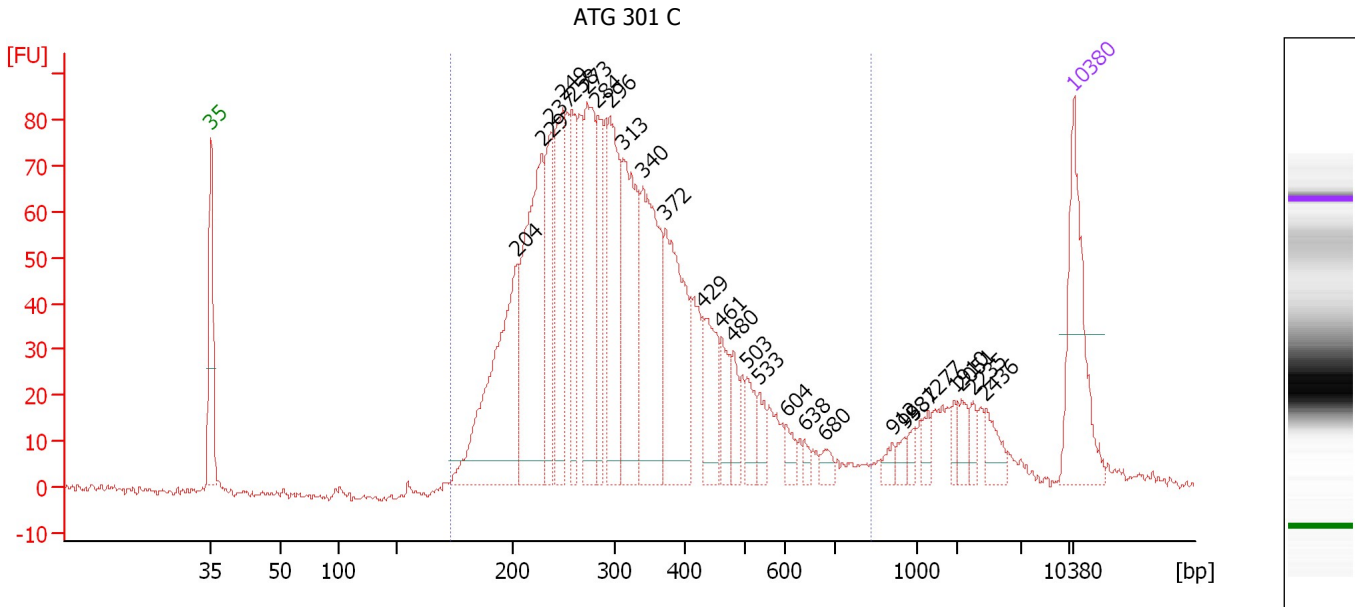
Region table for sample 2 : ATG 301 B

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
174	783	349	5,417.8	1,085.76	 1,114.5	84	34.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ATG 301 C

Number of peaks found: 27 Corr. Area 1: 1,818.8
 Noise: 0.8

Peak table for sample 3 : ATG 301 C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	204	228.68	1,698.8	
3	229	229.58	1,520.6	
4	237	92.17	588.8	
5	249	131.30	799.6	
6	258	83.09	487.4	
7	273	133.32	739.7	
8	284	77.22	412.5	
9	296	138.09	707.4	
10	313	149.02	722.0	
11	340	159.58	710.2	
12	372	141.03	574.6	
13	429	61.38	216.9	
14	461	29.85	98.2	
15	480	23.45	74.0	
16	503	24.16	72.7	
17	533	17.07	48.5	
18	604	11.26	28.2	
19	638	5.80	13.8	
20	680	8.70	19.4	
21	912	7.28	12.1	
22	953	7.25	11.5	
23	987	7.36	11.3	
24	1,277	8.93	10.6	
25	1,910	7.39	5.9	
26	2,051	11.14	8.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...**... Peak table for sample 3 : ATG 301 C**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,235	8.60	5.8	
28	2,436	15.69	9.8	
29	▶ 10,380	75.00	10.9	Upper Marker

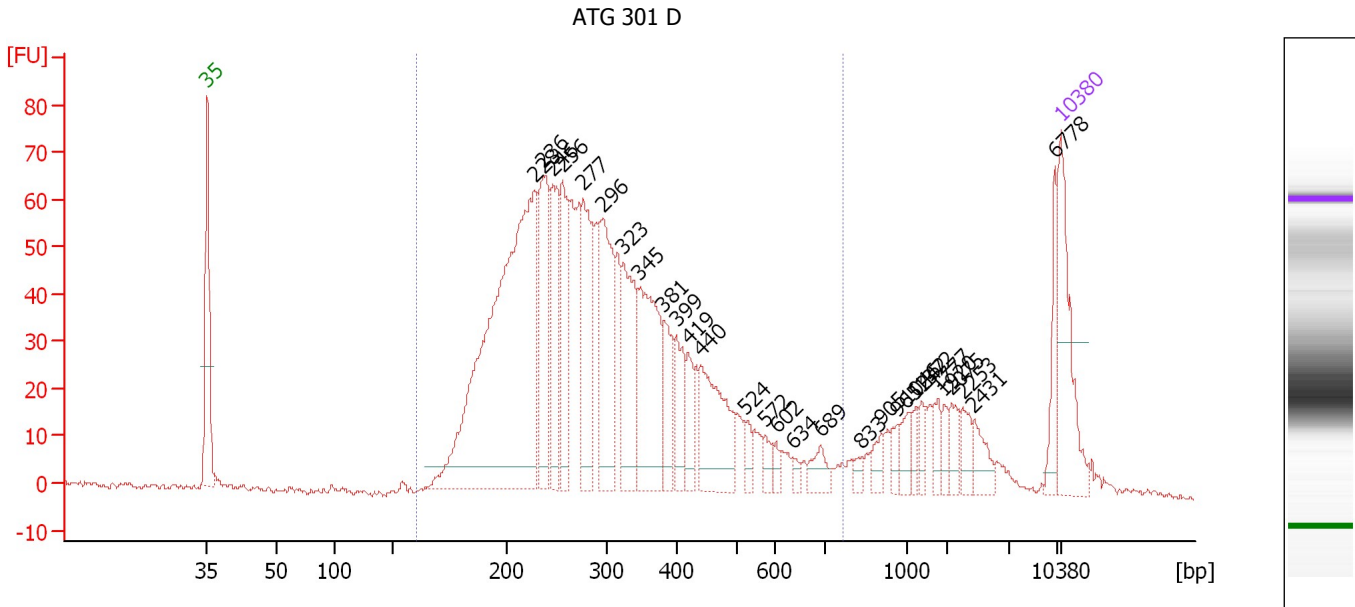
Region table for sample 3 : ATG 301 C

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
173	834	325	10,878.3	2,037.05	■ 1,818.8	92	35.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ATG 301 D

Number of peaks found: 29 Corr. Area 1: 1,483.9
 Noise: 0.7

Peak table for sample 4 : ATG 301 D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	652.96	4,343.6	
3	236	145.88	935.4	
4	246	108.14	664.9	
5	256	110.74	655.4	
6	277	126.41	691.9	
7	296	144.47	739.6	
8	323	114.65	537.7	
9	345	155.30	682.1	
10	381	49.03	194.8	
11	399	46.82	177.9	
12	419	31.81	115.0	
13	440	101.02	348.2	
14	524	14.90	43.1	
15	572	12.98	34.4	
16	602	7.49	18.9	
17	634	6.59	15.7	
18	689	18.61	40.9	
19	833	8.49	15.4	
20	905	14.25	23.8	
21	965	12.00	18.8	
22	1,046	14.86	21.5	
23	1,242	10.83	13.2	
24	1,372	11.27	12.4	
25	1,777	13.97	11.9	
26	1,920	10.15	8.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : ATG 301 D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,075	15.39	11.2	
28	2,253	16.28	10.9	
29	2,431	19.24	12.0	
30	6,778	31.40	7.0	
31	10,380	75.00	10.9	Upper Marker

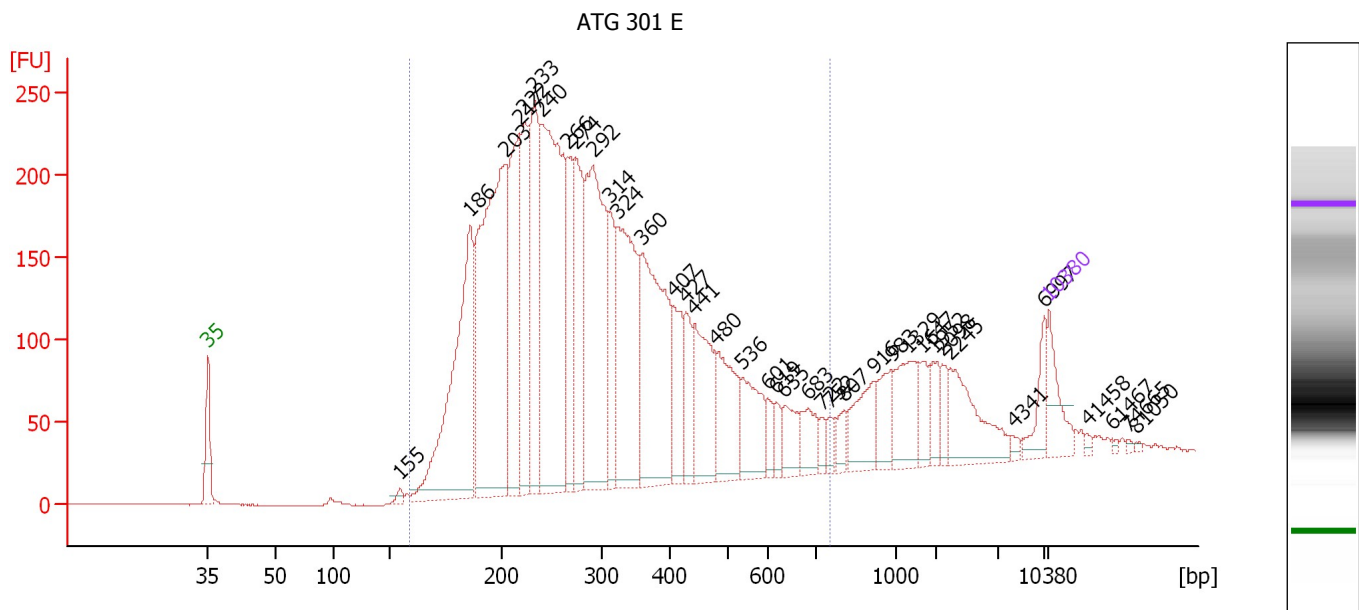
Region table for sample 4 : ATG 301 D

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
161	764	314	12,347.6	2,203.99	1,483.9	86	36.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ATG 301 E

Number of peaks found: 38 Corr. Area 1: 5,459.2
 Noise: 0.4

Peak table for sample 5 : ATG 301 E

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	16.05	157.3	
3	186	794.34	6,475.6	
4	203	1,137.74	8,499.5	
5	217	468.25	3,270.9	
6	222	339.55	2,314.1	
7	233	427.83	2,786.7	
8	240	959.32	6,065.0	
9	266	261.14	1,486.4	
10	274	315.23	1,744.5	
11	292	656.59	3,404.6	
12	314	165.86	801.5	
13	324	494.37	2,309.6	
14	360	541.15	2,274.6	
15	407	137.65	512.6	
16	427	116.58	413.8	
17	441	239.12	820.8	
18	480	199.54	630.5	
19	536	152.15	430.4	
20	601	37.72	95.1	
21	619	35.60	87.1	
22	635	72.21	172.2	
23	683	73.47	163.1	
24	722	25.03	52.5	
25	752	22.81	46.0	
26	807	35.86	67.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : ATG 301 E

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	916	111.24	183.9	
28	983	79.36	122.3	
29	1,329	129.41	147.5	
30	1,647	47.85	44.0	
31	1,952	49.88	38.7	
32	2,098	36.24	26.2	
33	2,245	143.86	97.1	
34	4,341	10.16	3.5	
35	6,997	59.19	12.8	
36	10,380	75.00	10.9	Upper Marker
37	41,458	0.00	0.0	
38	61,467	0.00	0.0	
39	74,665	0.00	0.0	
40	81,050	0.00	0.0	

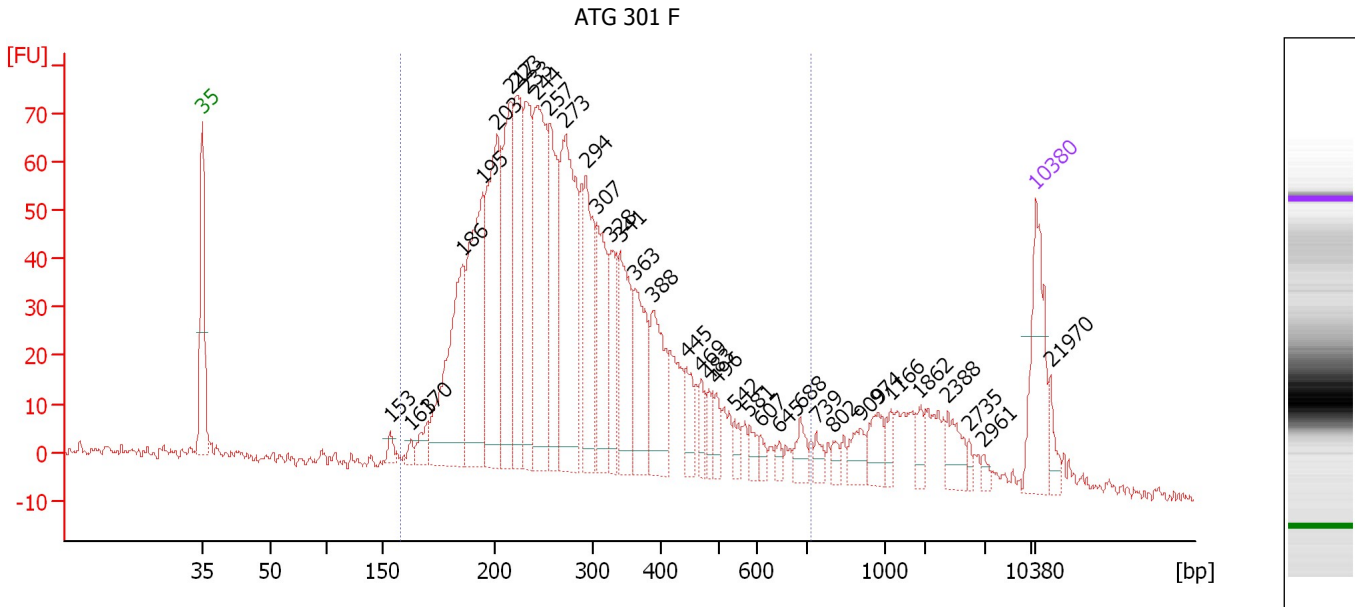
Region table for sample 5 : ATG 301 E

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
159	747	311	42,042.4	7,271.27	5,459.2	87	39.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ATG 301 F

Number of peaks found: 37 Corr. Area 1: 1,696.6
 Noise: 1.2

Peak table for sample 6 : ATG 301 F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	13.89	137.1	
3	163	10.33	96.2	
4	170	24.63	219.3	
5	186	240.61	1,961.4	
6	195	246.05	1,912.4	
7	203	252.91	1,891.4	
8	217	204.78	1,431.2	
9	223	174.92	1,189.5	
10	233	158.84	1,032.1	
11	244	249.79	1,553.9	
12	257	167.18	986.9	
13	273	269.93	1,497.8	
14	294	145.14	748.5	
15	307	118.26	584.2	
16	328	78.68	363.8	
17	341	115.85	514.9	
18	363	103.71	432.5	
19	388	97.22	379.5	
20	445	32.52	110.8	
21	469	22.32	72.1	
22	483	20.59	64.6	
23	496	18.76	57.3	
24	542	14.86	41.6	
25	581	14.07	36.7	
26	607	8.60	21.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : ATG 301 F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	645	7.86	18.5	
28	688	20.71	45.6	
29	739	12.74	26.1	
30	802	9.57	18.1	
31	909	23.20	38.7	
32	974	27.82	43.3	
33	1,166	14.31	18.6	
34	1,862	13.14	10.7	
35	2,388	25.38	16.1	
36	2,735	5.67	3.1	
37	2,961	5.73	2.9	
38	10,380	75.00	10.9	Upper Marker
39	21,970	0.00	0.0	

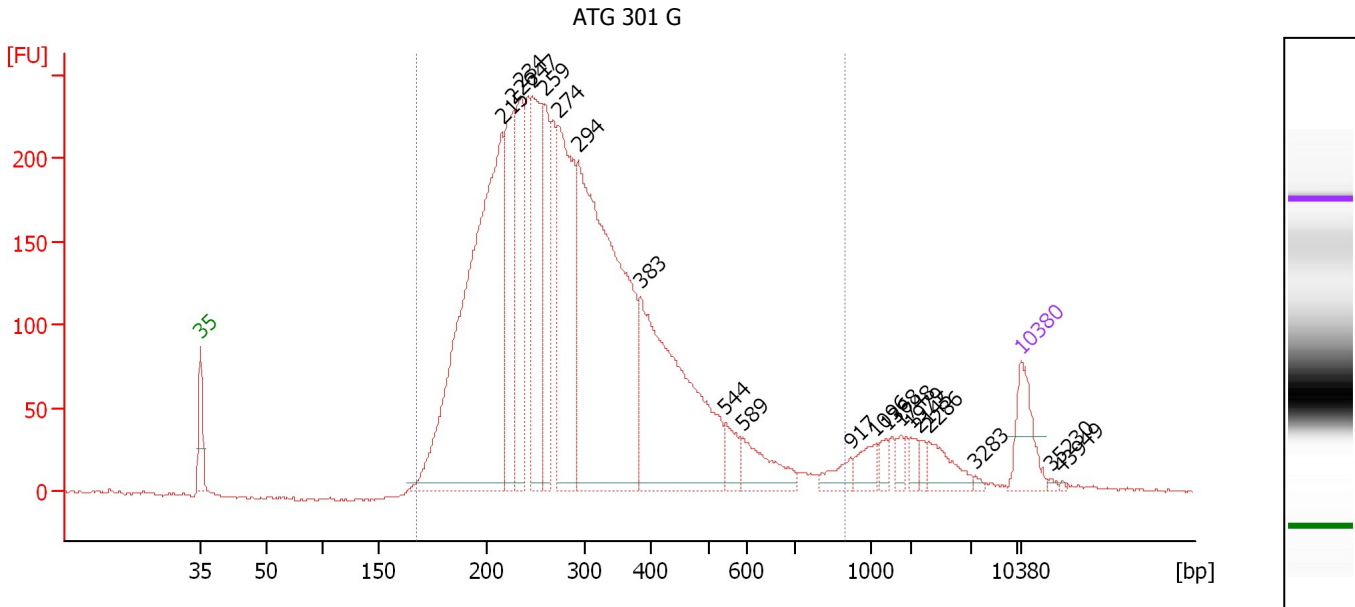
Region table for sample 6 : ATG 301 F

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
158	722	296	18,120.5	3,053.57	 1,696.6	86	37.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ATG 301 G

Number of peaks found: 20 Corr. Area 1: 5,201.2
 Noise: 1.1

Peak table for sample 7 : ATG 301 G

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	215	1,371.68	9,663.6	
3	226	378.74	2,543.6	
4	234	316.40	2,044.5	
5	247	378.87	2,327.0	
6	259	211.74	1,236.6	
7	274	528.52	2,924.0	
8	294	1,181.22	6,079.4	
9	383	662.72	2,618.9	
10	544	49.87	139.0	
11	589	95.22	244.8	
12	917	34.17	56.5	
13	1,096	38.69	53.5	
14	1,368	18.46	20.5	
15	1,748	17.60	15.3	
16	1,979	17.44	13.4	
17	2,145	12.01	8.5	
18	2,286	52.00	34.5	
19	3,283	4.31	2.0	
20	10,380	75.00	10.9	Upper Marker
21	35,230	0.00	0.0	
22	43,949	0.00	0.0	

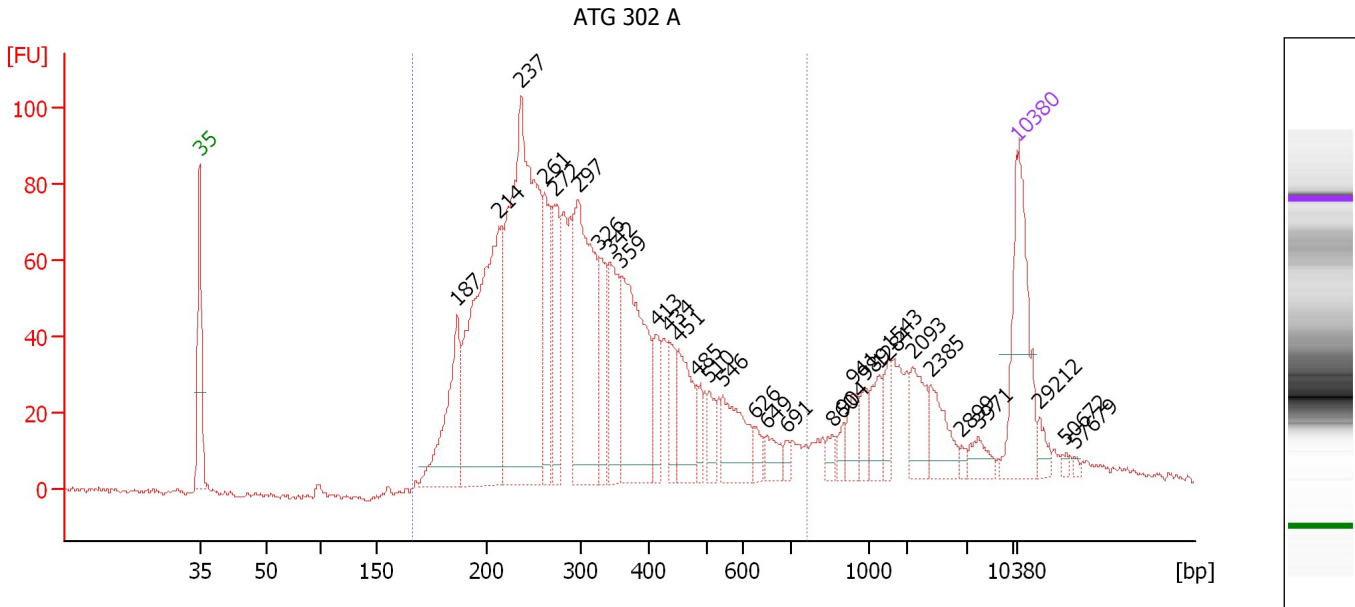
Region table for sample 7 : ATG 301 G

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
168	898	308	31,887.2	5,576.75	5,201.2	94	38.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ATG 302 A

Number of peaks found: 31 Corr. Area 1: 1,862.1
 Noise: 0.8

Peak table for sample 8 : ATG 302 A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	187	111.19	900.9	
3	214	298.96	2,119.5	
4	237	413.09	2,639.6	
5	261	83.87	486.7	
6	272	79.67	444.3	
7	297	194.17	991.4	
8	326	53.91	250.4	
9	342	68.94	305.4	
10	359	150.59	634.7	
11	413	30.24	111.0	
12	434	26.51	92.5	
13	451	54.08	181.6	
14	485	15.22	47.6	
15	510	16.75	49.8	
16	546	47.58	132.1	
17	626	9.69	23.5	
18	649	14.53	33.9	
19	691	5.94	13.0	
20	860	8.41	14.8	
21	904	6.74	11.3	
22	941	19.19	30.9	
23	989	12.62	19.3	
24	1,284	20.62	24.3	
25	1,543	16.53	16.2	
26	2,093	26.92	19.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : ATG 302 A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,385	26.64	16.9	
28	2,899	3.37	1.8	
29	3,971	11.53	4.4	
30	10,380	75.00	10.9	Upper Marker
31	29,212	0.00	0.0	
32	50,672	0.00	0.0	
33	57,679	0.00	0.0	

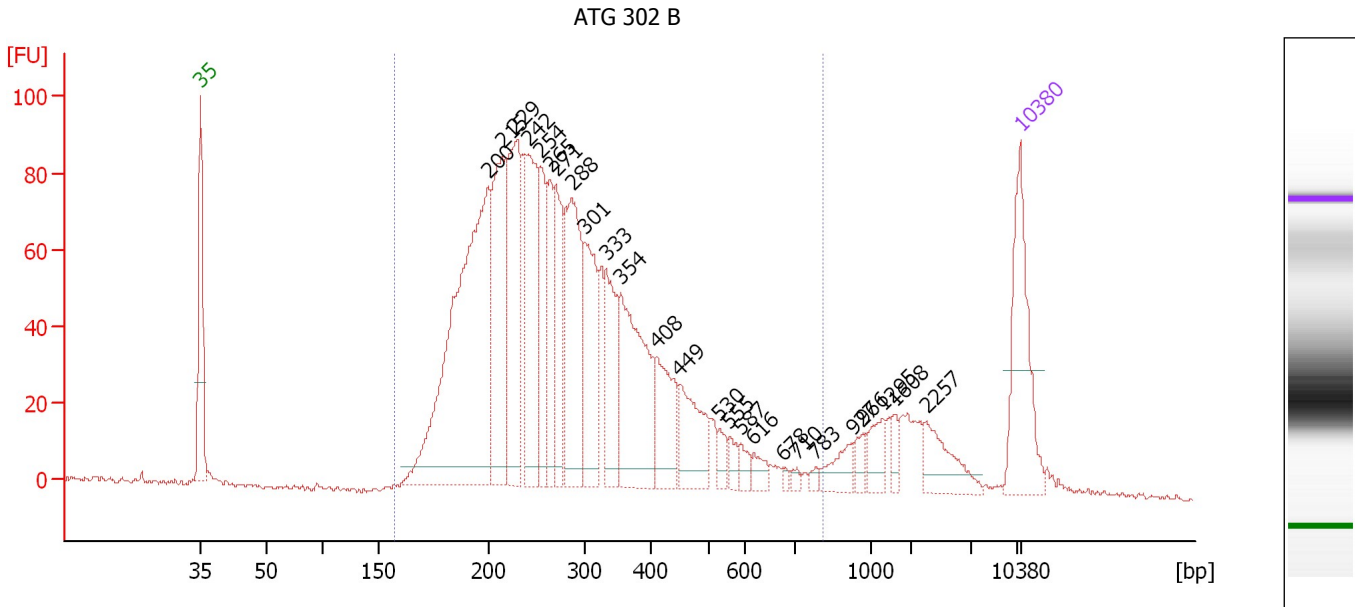
Region table for sample 8 : ATG 302 A

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
166	761	321	10,139.1	1,835.33	1,862.1	85	37.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : ATG 302 B

Number of peaks found: 25 Corr. Area 1: 2,016.9
 Noise: 0.6

Peak table for sample 9 : ATG 302 B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	200	458.48	3,465.1	
3	215	161.56	1,139.0	
4	229	177.78	1,177.3	
5	242	144.19	902.2	
6	254	80.67	480.5	
7	265	66.06	377.8	
8	271	86.39	483.0	
9	288	160.88	847.3	
10	301	98.00	492.6	
11	333	76.98	350.3	
12	354	151.33	647.2	
13	408	60.92	226.0	
14	449	61.96	208.9	
15	530	12.34	35.3	
16	555	10.25	28.0	
17	587	10.25	26.5	
18	616	10.24	25.2	
19	678	2.97	6.6	
20	710	4.01	8.5	
21	783	4.00	7.7	
22	927	19.48	31.9	
23	966	10.71	16.8	
24	1,295	19.01	22.2	
25	1,608	8.36	7.9	
26	2,257	31.69	21.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...**... Peak table for sample 9 : ATG 302 B**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker

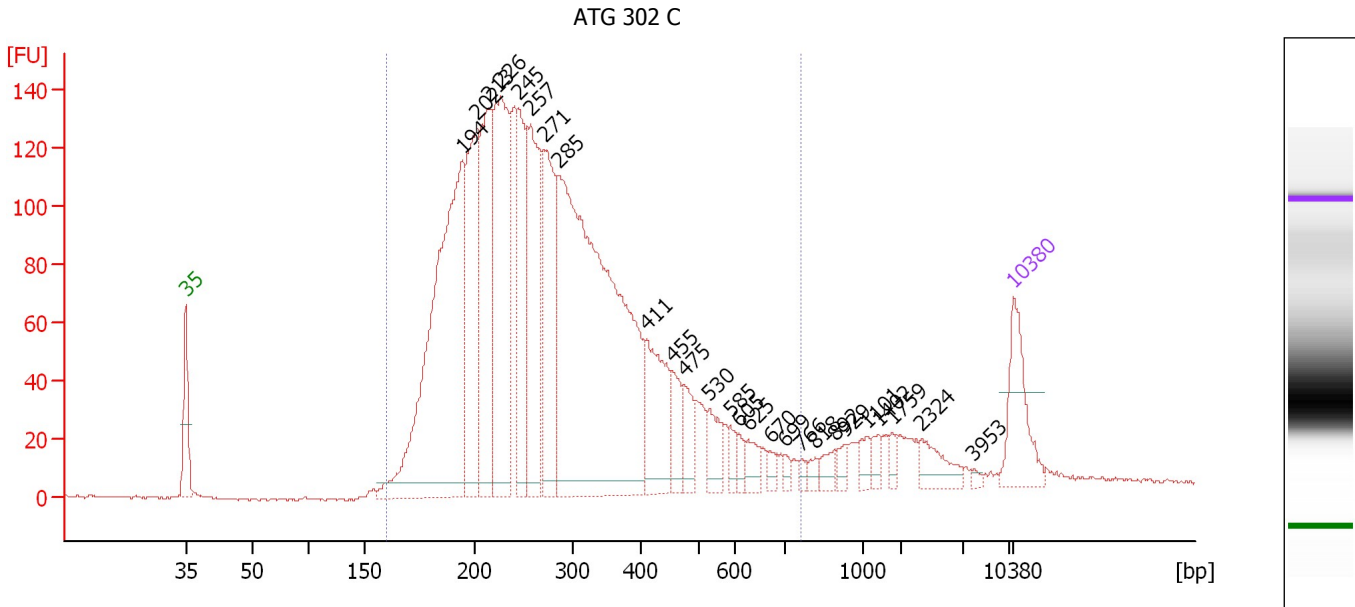
Region table for sample 9 : ATG 302 B

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
158	814	298	11,760.8	1,990.37	2,016.9	90	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : ATG 302 C

Number of peaks found: 26 Corr. Area 1: 3,118.6
 Noise: 0.4

Peak table for sample 10 : ATG 302 C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	774.28	6,040.0	
3	202	301.54	2,262.8	
4	213	277.95	1,976.1	
5	226	387.51	2,598.0	
6	245	223.79	1,383.7	
7	257	247.31	1,455.9	
8	271	224.02	1,253.4	
9	285	1,028.20	5,459.0	
10	411	141.27	520.2	
11	455	48.35	161.1	
12	475	50.01	159.4	
13	530	43.91	125.5	
14	585	15.91	41.2	
15	605	14.72	36.9	
16	625	23.97	58.1	
17	670	12.48	28.2	
18	699	7.99	17.3	
19	766	7.29	14.4	
20	818	9.67	17.9	
21	892	17.82	30.3	
22	929	12.48	20.3	
23	1,101	16.76	23.1	
24	1,402	13.82	14.9	
25	1,759	9.16	7.9	
26	2,324	33.83	22.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...**... Peak table for sample 10 : ATG 302 C**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,953	4.18	1.6	
28	▶ 10,380	75.00	10.9	Upper Marker

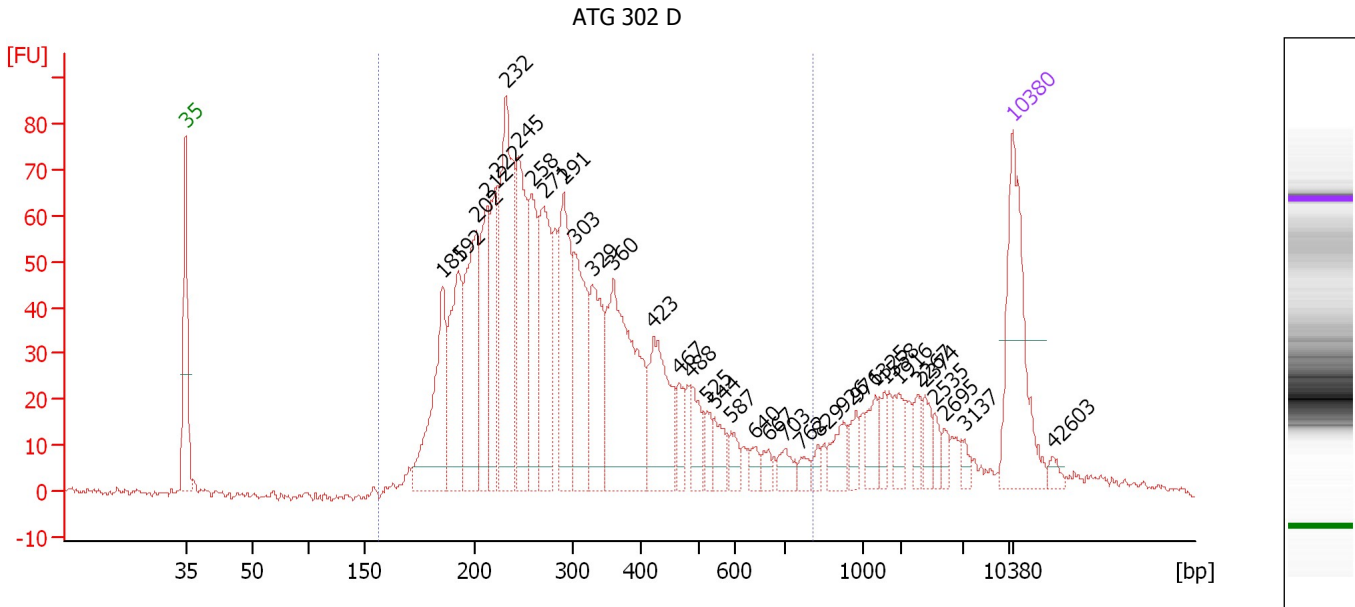
Region table for sample 10 : ATG 302 C

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
160	765	296	23,544.5	3,941.01	■ 3,118.6	94	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : ATG 302 D

Number of peaks found: 35 Corr. Area 1: 1,606.5
 Noise: 0.8

Peak table for sample 11 : ATG 302 D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	185	110.50	903.8	
3	192	96.72	761.9	
4	202	120.79	907.9	
5	212	80.71	576.1	
6	222	71.20	485.1	
7	232	172.59	1,127.6	
8	245	105.79	654.7	
9	258	81.14	475.9	
10	271	95.05	532.1	
11	291	99.70	518.3	
12	303	85.27	426.4	
13	329	69.47	319.6	
14	360	147.30	619.2	
15	423	71.95	257.7	
16	467	17.74	57.5	
17	488	22.10	68.6	
18	525	12.29	35.5	
19	544	16.28	45.4	
20	587	11.60	29.9	
21	640	8.21	19.4	
22	667	7.49	17.0	
23	703	12.01	25.9	
24	762	6.28	12.5	
25	829	5.73	10.5	
26	926	16.03	26.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

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 Modified: 7/16/2014 1:09:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : ATG 302 D

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	976	10.93	17.0	
28	1,325	14.10	16.1	
29	1,558	9.75	9.5	
30	1,916	14.01	11.1	
31	2,267	9.34	6.2	
32	2,374	10.31	6.6	
33	2,535	6.48	3.9	
34	2,695	5.40	3.0	
35	3,137	4.77	2.3	
36	10,380	75.00	10.9	Upper Marker
37	42,603	0.00	0.0	

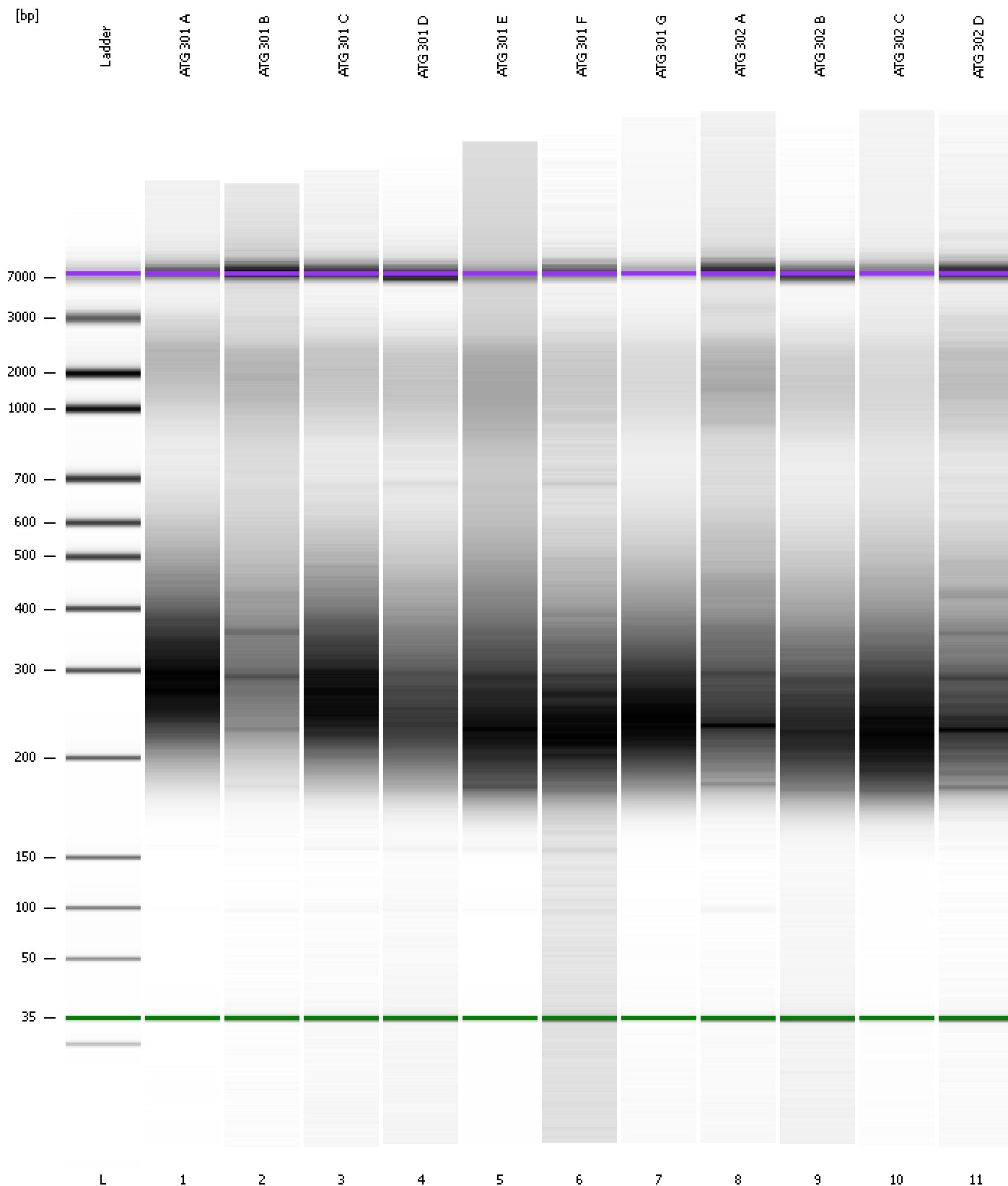
Region table for sample 11 : ATG 302 D

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
157	812	314	9,361.9	1,641.12	1,606.5	86	40.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
Modified: 7/16/2014 1:09:01 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-07-16\2014-07-16_002.xad

Created: 7/16/2014 12:26:11 PM
 Modified: 7/16/2014 1:09:01 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		7/16/2014 1:06:40 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\2014-07-16\2014-07-16_002.xad)		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/16/2014 12:26:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1