

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
Modified: 8/15/2014 2:06:46 PM

Electrophoresis File Run Summary

Instrument Information:

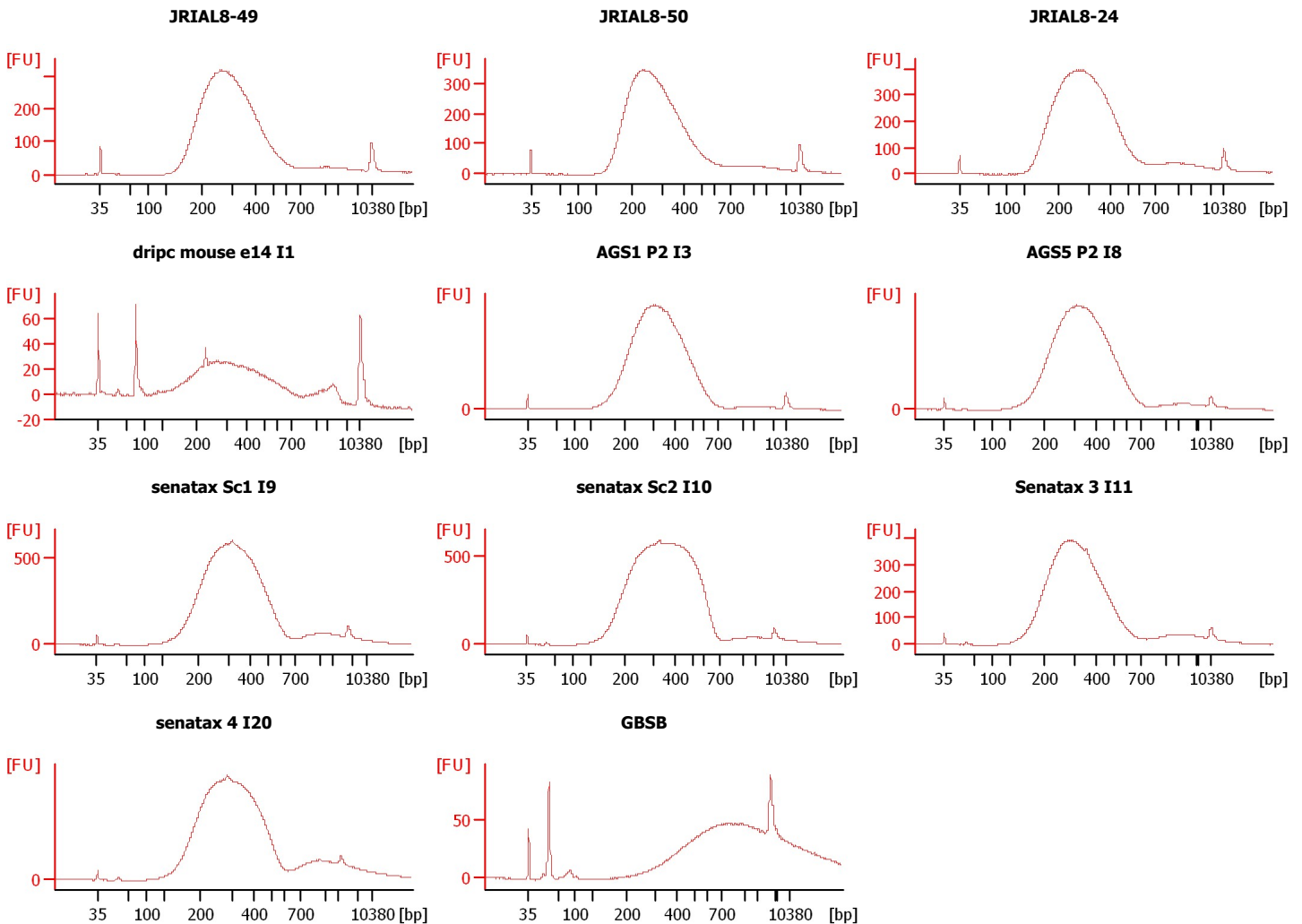
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
JRIAL8-49		<input type="checkbox"/>	✓			
JRIAL8-50		<input type="checkbox"/>	✓			
JRIAL8-24		<input type="checkbox"/>	✓			
dripc mouse e14 I1		<input type="checkbox"/>	✓			
AGS1 P2 I3		<input type="checkbox"/>	✓			
AGS5 P2 I8		<input type="checkbox"/>	✓			
senatax Sc1 I9		<input type="checkbox"/>	✓			
senatax Sc2 I10		<input type="checkbox"/>	✓			
Senatax 3 I11		<input type="checkbox"/>	✓			
senatax 4 I20		<input type="checkbox"/>	✓			
GBSB		<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

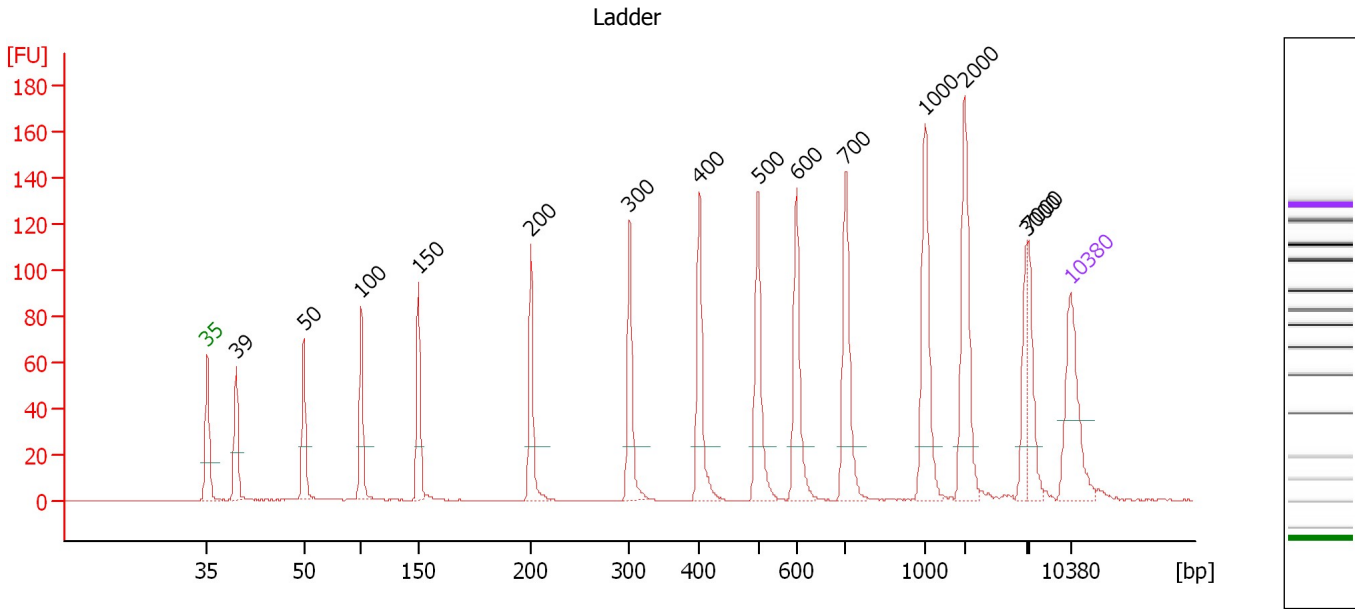
Ladder

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

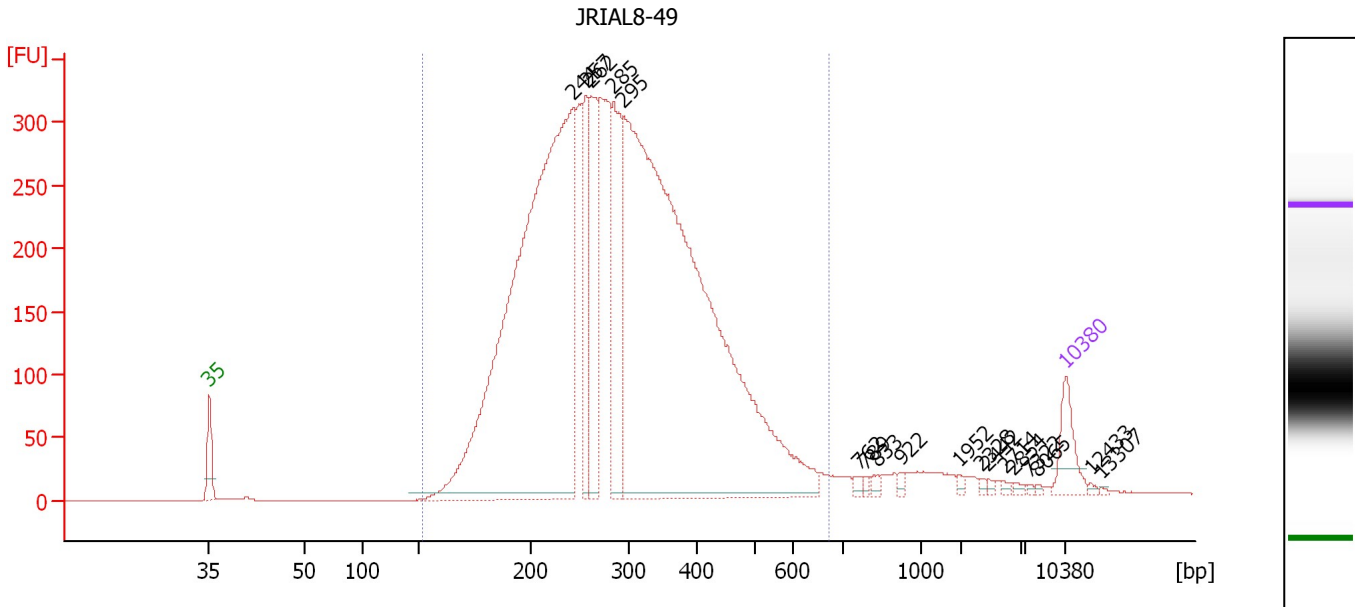
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	0.00	0.0	
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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : JRIAL8-49

Number of peaks found: 18 Corr. Area 1: 7,227.5
 Noise: 0.2

Peak table for sample 1 : JRIAL8-49

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	2,908.90	18,058.1	
3	257	290.74	1,716.7	
4	262	377.07	2,180.2	
5	285	408.44	2,171.9	
6	295	3,441.35	17,690.3	
7	762	11.69	23.2	
8	789	8.43	16.2	
9	833	12.29	22.3	
10	922	8.99	14.8	
11	1,952	7.20	5.6	
12	2,328	5.62	3.7	
13	2,442	5.19	3.2	
14	2,714	5.82	3.2	
15	2,854	6.59	3.5	
16	7,322	3.23	0.7	
17	8,065	3.55	0.7	
18	10,380	75.00	10.9	Upper Marker
19	12,433	0.00	0.0	
20	13,307	0.00	0.0	

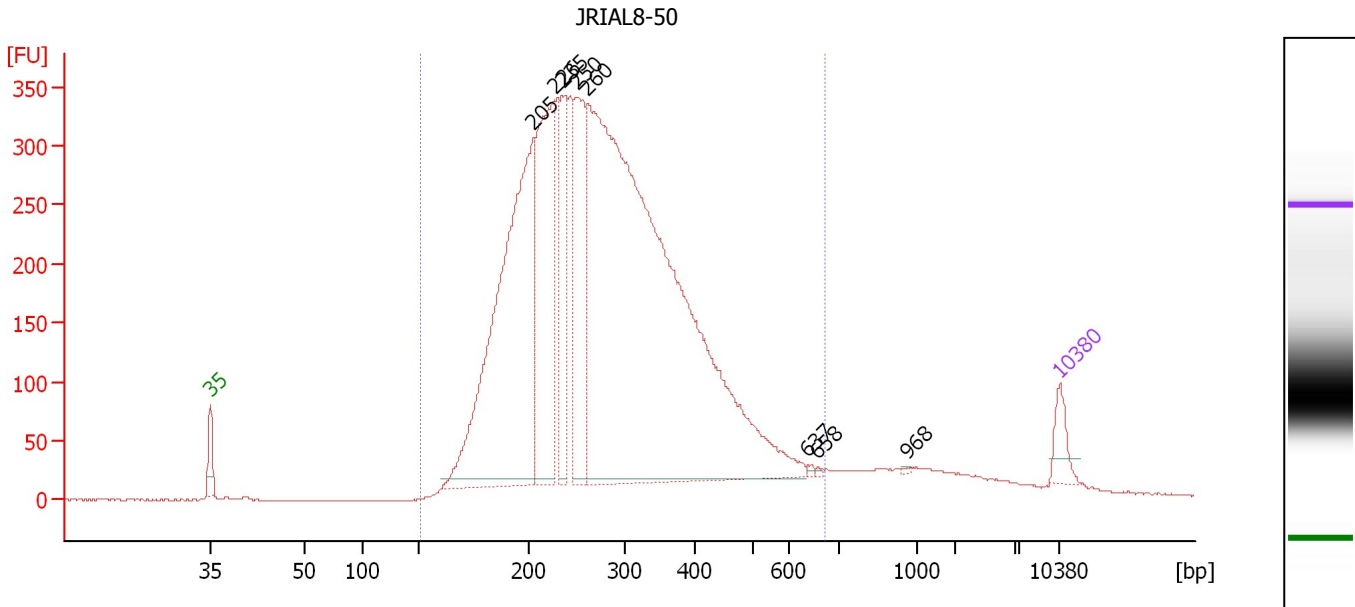
Region table for sample 1 : JRIAL8-49

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
152	673	302	45,326.4	7,992.09	7,227.5	96	31.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JRIAL8-50

Number of peaks found: 8 Corr. Area 1: 7,568.2
 Noise: 0.5

Peak table for sample 2 : JRIAL8-50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	205	2,371.58	17,527.0	
3	226	1,134.11	7,606.6	
4	235	567.62	3,664.4	
5	250	724.84	4,391.4	
6	260	5,465.27	31,850.6	
7	637	8.22	19.6	
8	658	5.47	12.6	
9	968	3.69	5.8	
10	10,380	75.00	10.9	Upper Marker

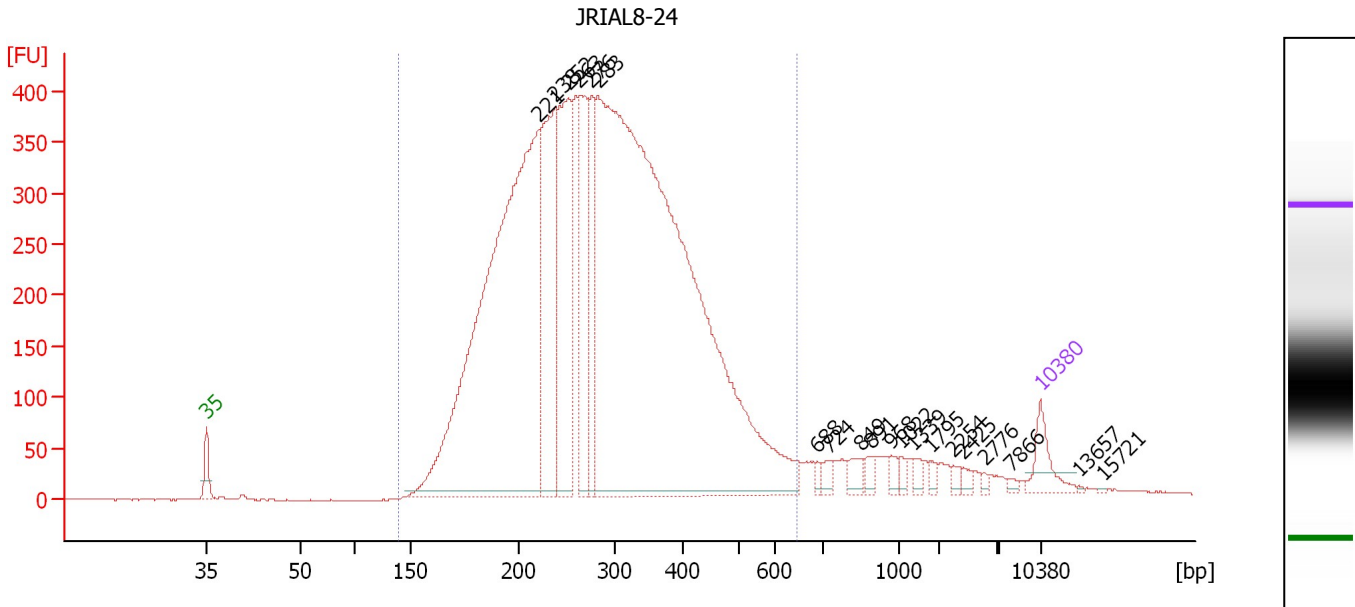
Region table for sample 2 : JRIAL8-50

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
151	672	291	64,738.7	10,966.91	7,568.2	95	33.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : JRIAL8-24

Number of peaks found: 20 Corr. Area 1: 9,845.2
 Noise: 0.7

Peak table for sample 3 : JRIAL8-24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	221	3,063.35	20,976.0	
3	238	813.49	5,189.5	
4	252	765.91	4,603.8	
5	263	471.58	2,714.0	
6	276	330.24	1,811.9	
7	283	5,028.03	26,932.4	
8	688	17.47	38.5	
9	724	29.85	62.5	
10	849	42.46	75.8	
11	891	25.69	43.7	
12	968	24.89	39.0	
13	1,022	19.90	29.5	
14	1,339	21.45	24.3	
15	1,795	14.40	12.2	
16	2,254	14.97	10.1	
17	2,425	14.93	9.3	
18	2,776	7.89	4.3	
19	7,866	8.04	1.5	
20	10,380	75.00	10.9	Upper Marker
21	13,657	0.00	0.0	
22	15,721	0.00	0.0	

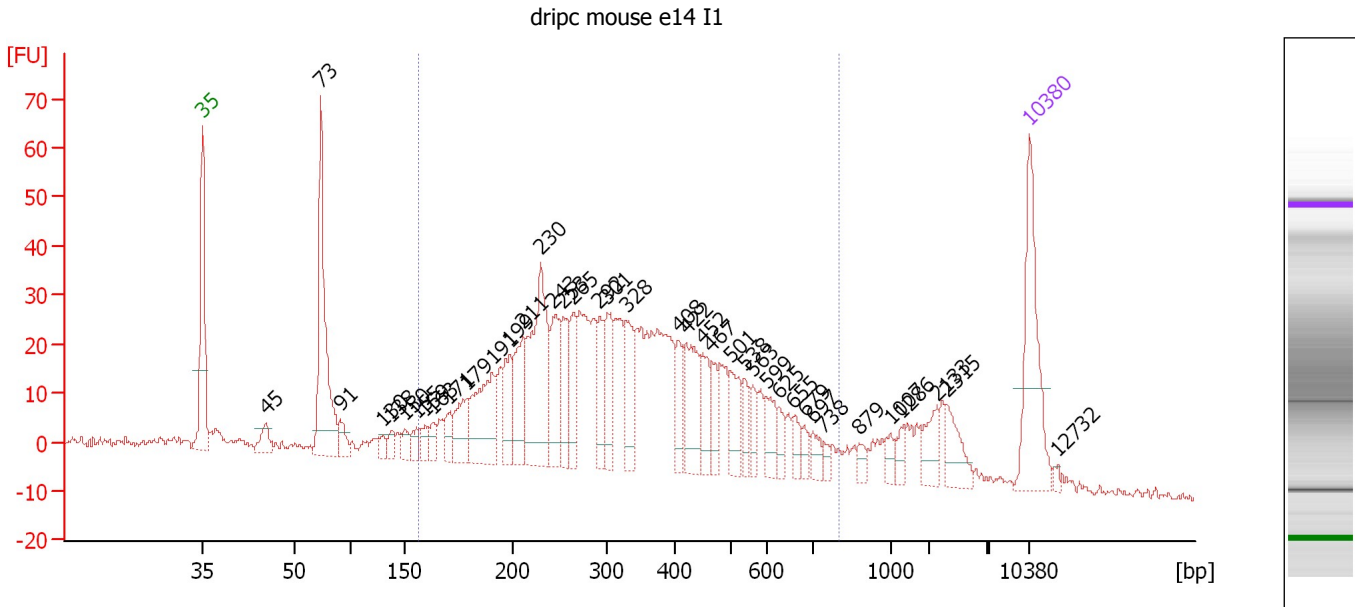
Region table for sample 3 : JRIAL8-24

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
138	645	297	60,777.8	10,409.22	9,845.2	94	32.7

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Electropherogram Summary Continued ...



Overall Results for sample 4 : dripc mouse e14 I1

Number of peaks found: 40 Corr. Area 1: 976.7
 Noise: 1.0

Peak table for sample 4 : dripc mouse e14 I1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	23.11	773.2	
3	73	187.28	3,861.2	
4	91	19.11	318.5	
5	130	9.52	111.1	
6	138	11.88	130.7	
7	150	13.08	132.3	
8	155	14.35	140.0	
9	159	14.00	133.1	
10	163	13.37	124.1	
11	171	18.96	168.3	
12	179	45.15	383.1	
13	191	95.81	761.2	
14	199	44.38	338.5	
15	211	65.78	472.4	
16	230	148.62	978.3	
17	243	59.56	372.0	
18	253	49.42	295.6	
19	265	43.28	247.8	
20	292	37.25	193.1	
21	301	51.63	259.9	
22	328	49.26	227.5	
23	408	29.95	111.1	
24	422	59.05	212.2	
25	452	31.38	105.2	
26	467	22.86	74.1	

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...

... Peak table for sample 4 : dripc mouse e14 I1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	501	33.37	101.0	
28	538	18.25	51.4	
29	563	15.42	41.5	
30	599	22.73	57.5	
31	625	12.66	30.7	
32	655	13.43	31.1	
33	679	9.53	21.3	
34	697	13.00	28.3	
35	738	5.87	12.0	
36	879	7.40	12.7	
37	1,007	8.78	13.2	
38	1,286	9.24	10.9	
39	2,133	19.80	14.1	
40	2,315	22.88	15.0	
41	10,380	75.00	10.9	Upper Marker
42	12,732	0.00	0.0	

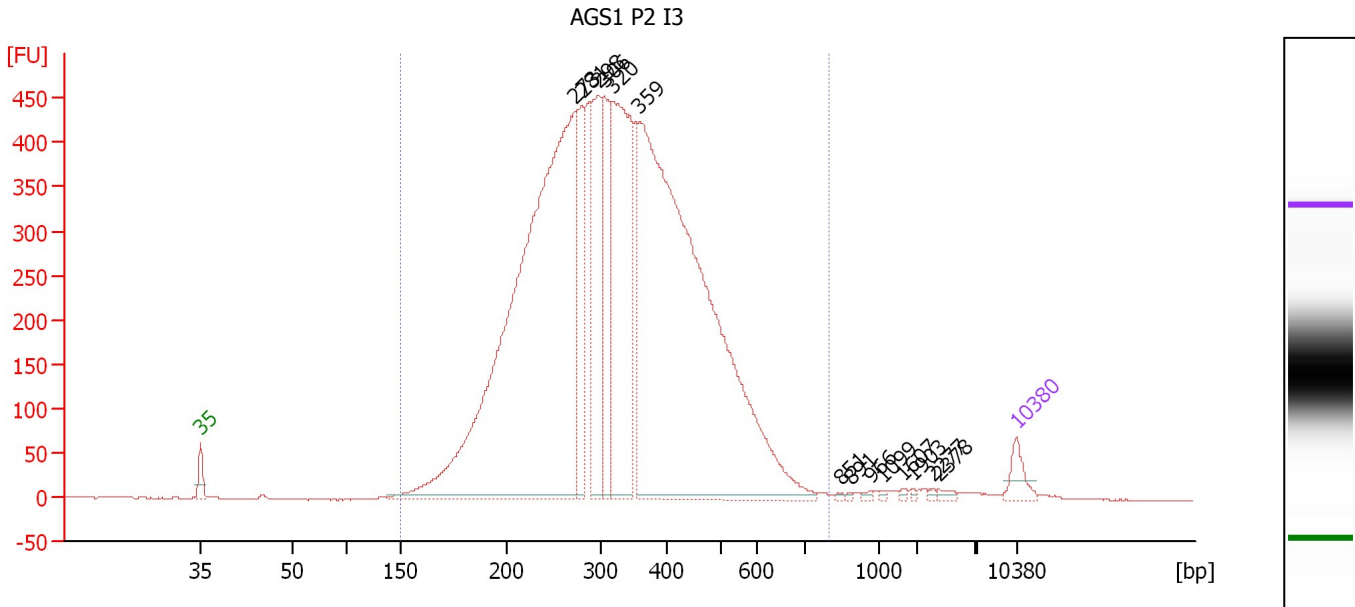
Region table for sample 4 : dripc mouse e14 I1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
156	801	354	7,925.4	1,478.10	976.7	75	41.3

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Overall Results for sample 5 : AGS1 P2 I3

Number of peaks found: 14 Corr. Area 1: 10,322.4
 Noise: 0.4

Peak table for sample 5 : AGS1 P2 I3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	5,320.78	29,546.3	
3	281	559.95	3,020.8	
4	298	868.45	4,415.3	
5	306	620.82	3,073.1	
6	320	1,505.65	7,133.0	
7	359	4,927.05	20,771.3	
8	851	7.03	12.5	
9	891	5.86	10.0	
10	966	10.55	16.6	
11	1,099	8.48	11.7	
12	1,607	8.76	8.3	
13	1,903	6.51	5.2	
14	2,277	7.72	5.1	
15	2,378	16.97	10.8	
16	10,380	75.00	10.9	Upper Marker

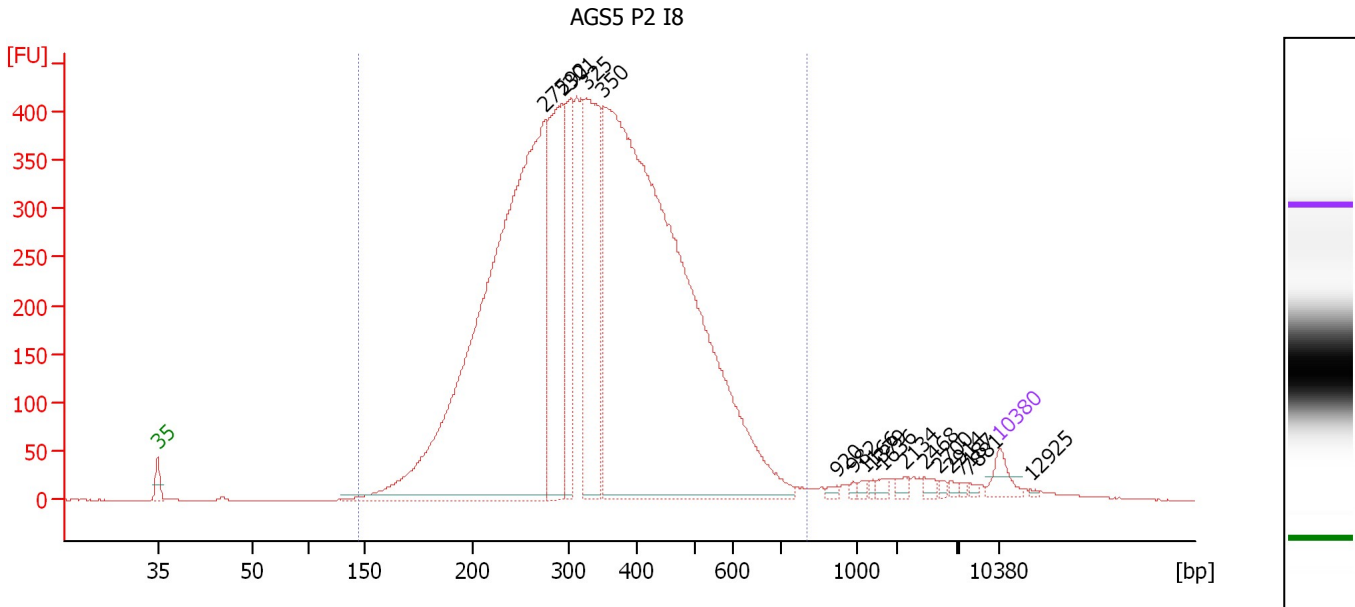
Region table for sample 5 : AGS1 P2 I3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
150	796	336	75,198.1	14,558.76	10,322.4	98	31.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : AGS5 P2 I8

Number of peaks found: 17 Corr. Area 1: 9,705.7
 Noise: 0.2

Peak table for sample 6 : AGS5 P2 I8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	5,515.24	30,406.5	
3	292	1,457.06	7,556.8	
4	301	691.49	3,479.3	
5	325	1,311.63	6,119.1	
6	350	6,612.38	28,621.4	
7	920	17.76	29.3	
8	982	12.33	19.0	
9	1,166	19.78	25.7	
10	1,379	13.21	14.5	
11	1,636	27.01	25.0	
12	2,134	26.02	18.5	
13	2,468	26.59	16.3	
14	2,700	14.47	8.1	
15	2,914	14.25	7.4	
16	7,187	11.87	2.5	
17	7,881	11.40	2.2	
18	10,380	75.00	10.9	Upper Marker
19	12,925	0.00	0.0	

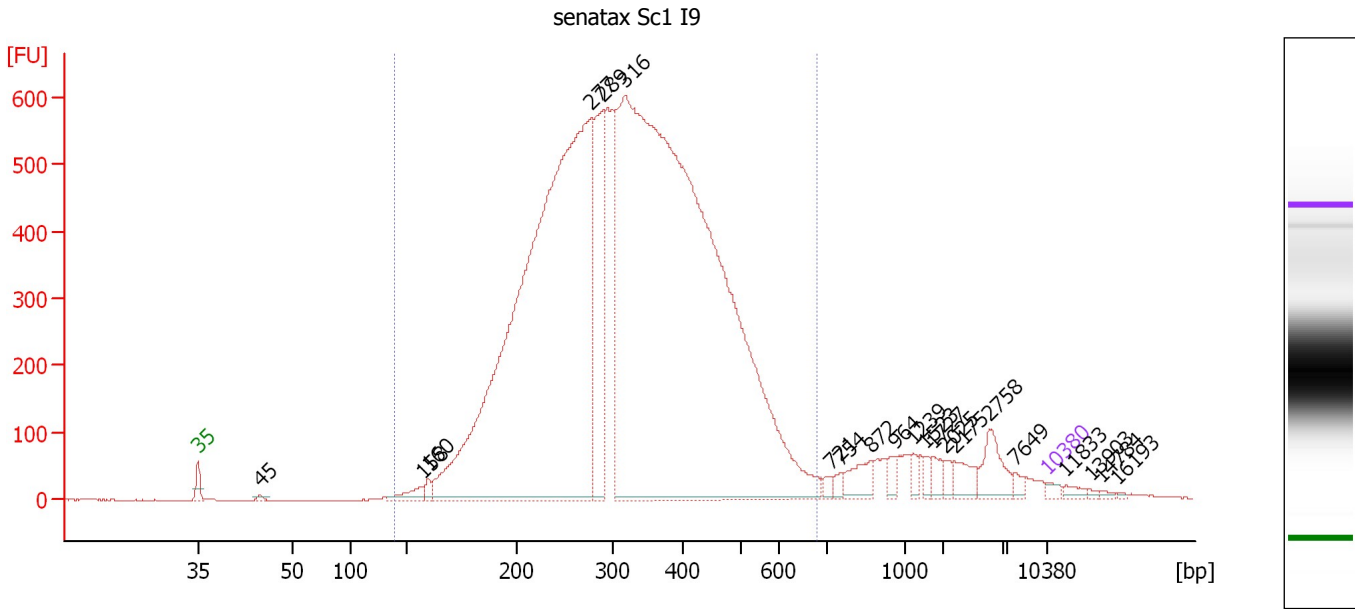
Region table for sample 6 : AGS5 P2 I8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
146	804	347	82,435.1	16,344.56	9,705.7	97	32.8

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Electropherogram Summary Continued ...



Overall Results for sample 7 : senatax Sc1 I9

Number of peaks found: 21 Corr. Area 1: 14,314.1
 Noise: 0.4

Peak table for sample 7 : senatax Sc1 I9


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	70.34	2,380.6	
3	158	361.73	3,473.4	
4	160	173.74	1,643.2	
5	277	24,890.99	136,262.1	
6	289	3,544.70	18,557.7	
7	316	34,359.29	164,706.5	
8	721	110.15	231.5	
9	754	111.61	224.4	
10	872	468.80	814.2	
11	964	175.90	276.4	
12	1,239	126.08	154.2	
13	1,523	115.34	114.7	
14	1,727	187.83	164.8	
15	2,025	133.78	100.1	
16	2,175	295.08	205.5	
17	2,758	536.12	294.5	
18	7,649	101.84	20.2	
19	10,380	75.00	10.9	Upper Marker
20	11,833	0.00	0.0	
21	13,903	0.00	0.0	
22	14,784	0.00	0.0	
23	16,193	0.00	0.0	

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Electropherogram Summary Continued ...

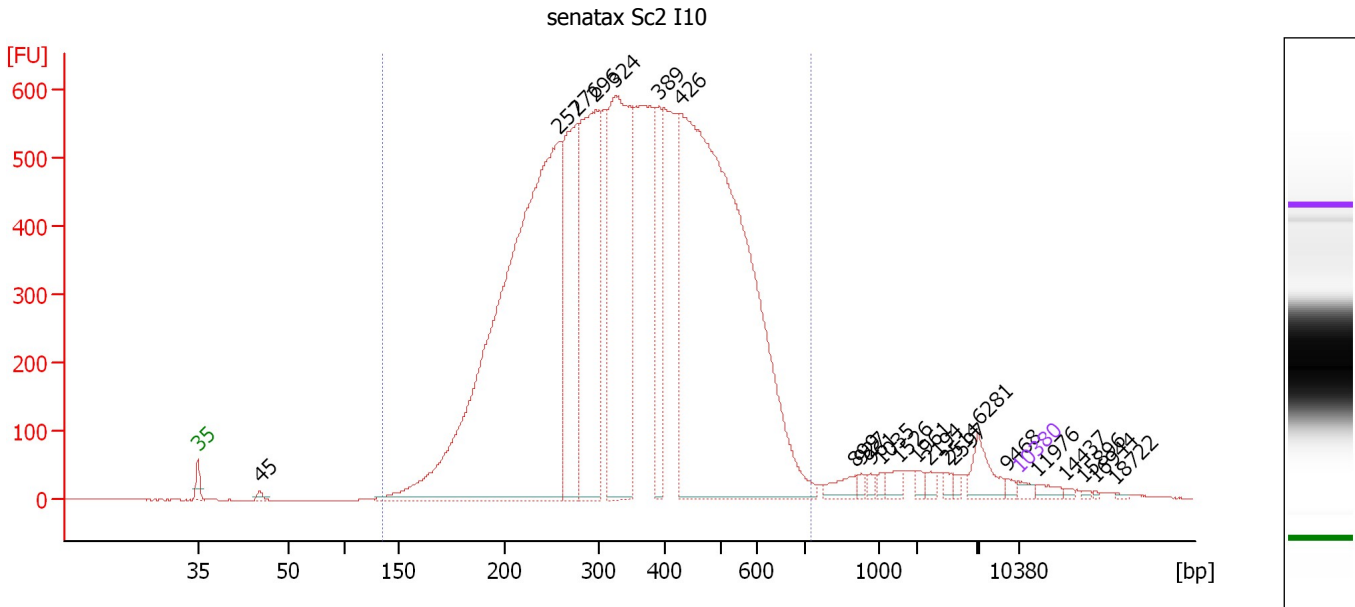
... Region table for sample 7 : senatax Sc1 I9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
140	679	331	340,819.1	64,938.03	 14,314.1	93	31.6

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Electropherogram Summary Continued ...



Overall Results for sample 8 : senatax Sc2 I10

Number of peaks found: 23 Corr. Area 1: 16,512.9
 Noise: 0.6

Peak table for sample 8 : senatax Sc2 I10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	85.32	2,865.5	
3	257	16,636.62	98,134.9	
4	276	3,903.89	21,416.0	
5	296	4,994.51	25,557.3	
6	324	5,581.60	26,085.6	
7	389	1,553.51	6,047.1	
8	426	14,575.36	51,791.0	
9	899	221.09	372.4	
10	927	63.45	103.7	
11	961	72.07	113.7	
12	1,035	62.05	90.8	
13	1,526	148.78	147.7	
14	1,961	79.34	61.3	
15	2,194	87.35	60.3	
16	2,514	71.87	43.3	
17	2,597	61.24	35.7	
18	6,281	371.03	89.5	
19	9,468	51.46	8.2	
20	10,380	75.00	10.9	Upper Marker
21	11,976	0.00	0.0	
22	14,437	0.00	0.0	
23	15,896	0.00	0.0	
24	16,944	0.00	0.0	
25	18,722	0.00	0.0	

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Electropherogram Summary Continued ...

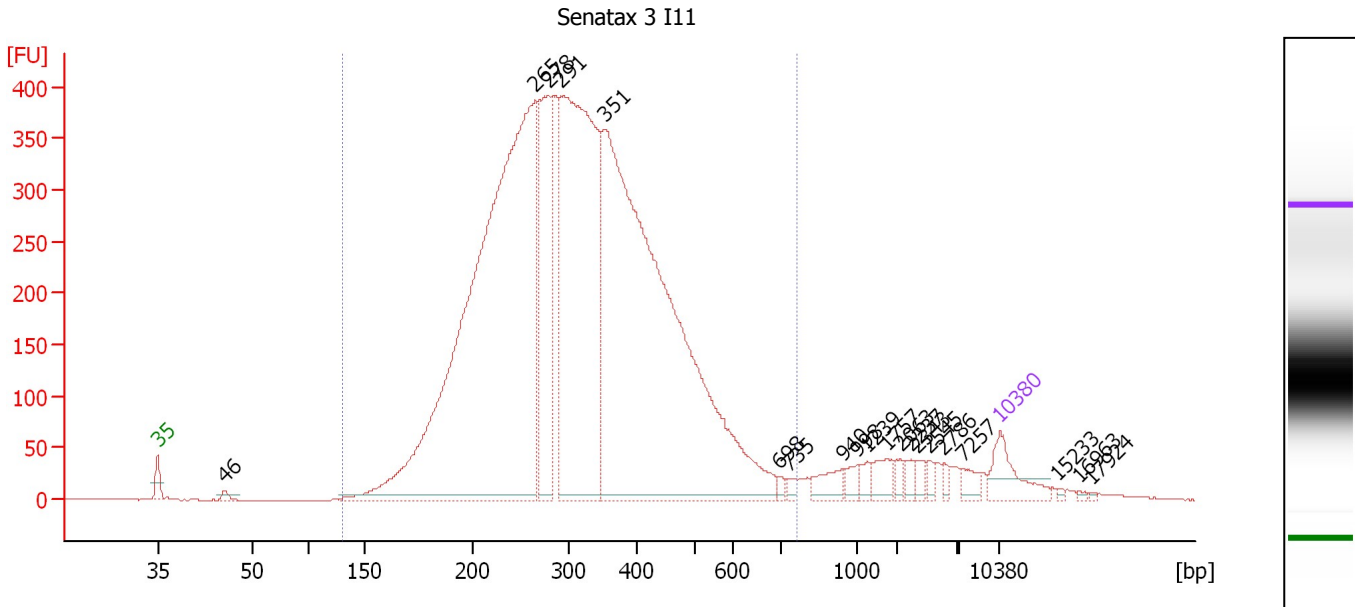
... Region table for sample 8 : senatax Sc2 I10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
135	724	360	283,484.0	56,614.22	 16,512.9	96	34.4

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Senatax 3 I11

Number of peaks found: 20 Corr. Area 1: 8,851.6
 Noise: 0.3

Peak table for sample 9 : Senatax 3 I11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	16.90	559.6	
3	265	2,946.12	16,876.2	
4	278	522.08	2,848.6	
5	291	1,517.76	7,889.6	
6	351	2,523.55	10,879.4	
7	698	11.87	25.7	
8	735	13.99	28.8	
9	940	46.71	75.3	
10	998	25.97	39.4	
11	1,239	20.35	24.9	
12	1,757	41.43	35.7	
13	2,063	15.69	11.5	
14	2,237	17.49	11.8	
15	2,343	19.13	12.4	
16	2,545	12.66	7.5	
17	2,786	11.59	6.3	
18	7,257	26.79	5.6	
19	10,380	75.00	10.9	Upper Marker
20	15,233	0.00	0.0	
21	16,963	0.00	0.0	
22	17,924	0.00	0.0	

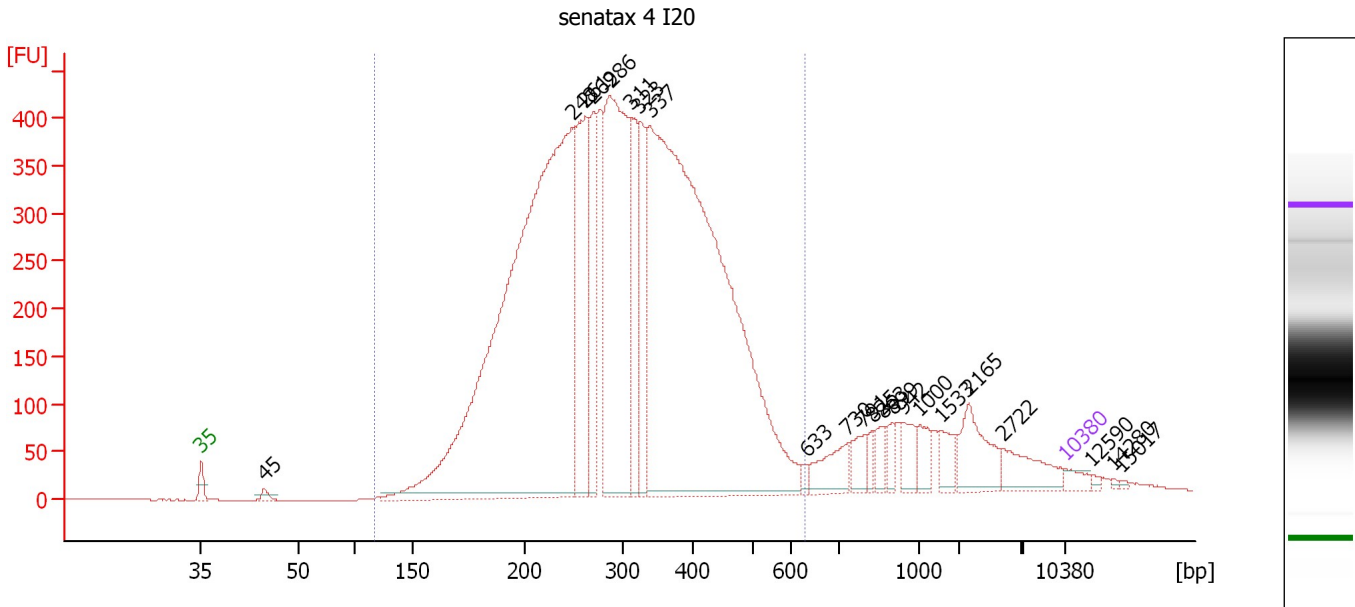
Region table for sample 9 : Senatax 3 I11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
132	763	324	42,120.4	7,846.87	8,851.6	94	33.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
 Modified: 8/15/2014 2:06:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : senatax 4 I20

Number of peaks found: 22 Corr. Area 1: 10,462.9
 Noise: 0.3

Peak table for sample 10 : senatax 4 I20


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	75.47	2,553.7	
3	248	11,292.90	69,114.2	
4	261	1,973.07	11,450.5	
5	269	987.47	5,558.0	
6	286	3,942.15	20,888.4	
7	311	955.44	4,648.0	
8	323	987.74	4,634.8	
9	337	10,569.96	47,465.5	
10	633	48.33	115.7	
11	730	362.57	752.3	
12	791	198.34	380.1	
13	825	91.50	168.1	
14	863	139.36	244.6	
15	899	113.43	191.1	
16	942	220.40	354.6	
17	1,000	187.08	283.5	
18	1,533	168.54	166.5	
19	2,165	432.97	303.0	
20	2,722	317.06	176.5	
21	10,380	75.00	10.9	Upper Marker
22	12,590	0.00	0.0	
23	14,280	0.00	0.0	
24	15,017	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
Modified: 8/15/2014 2:06:46 PM

Electropherogram Summary Continued ...

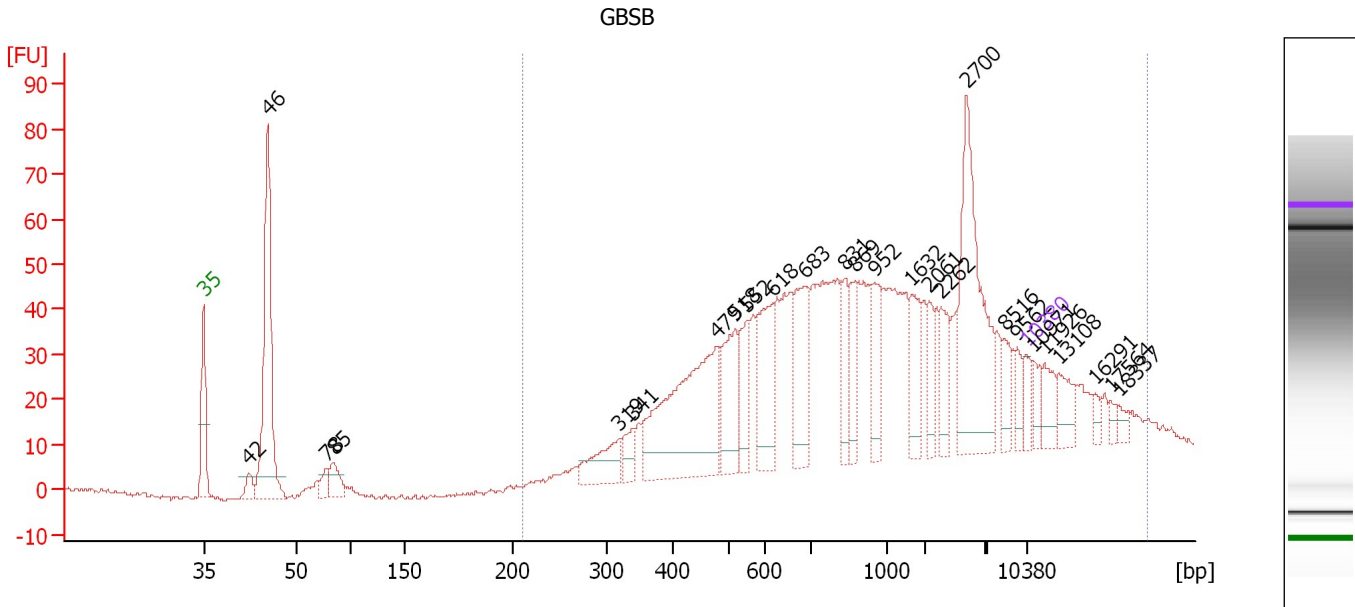
... Region table for sample 10 : senatax 4 I20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
116	628	310	176,376.7	31,500.68	 10,462.9	90	31.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
 Modified: 8/15/2014 2:06:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : GBSB

Number of peaks found: 26 Corr. Area 1: 1,190.5
 Noise: 0.5

Peak table for sample 11 : GBSB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	122.00	4,369.4	
3	46	1,697.81	56,510.4	
4	78	104.13	2,012.0	
5	85	192.70	3,445.8	
6	319	330.39	1,567.5	
7	341	138.73	616.4	
8	479	1,427.89	4,521.1	
9	518	456.65	1,335.2	
10	552	300.96	826.5	
11	618	504.64	1,237.0	
12	683	494.29	1,096.3	
13	831	246.32	448.9	
14	869	193.44	337.1	
15	952	248.11	395.0	
16	1,632	253.52	235.3	
17	2,061	137.91	101.4	
18	2,262	184.16	123.4	
19	2,700	930.52	522.2	
20	8,516	126.12	22.4	
21	9,562	92.74	14.7	
22	10,380	75.00	10.9	Upper Marker
23	10,971	0.00	0.0	
24	11,926	0.00	0.0	
25	13,108	0.00	0.0	
26	16,291	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
Modified: 8/15/2014 2:06:46 PM

Electropherogram Summary Continued ...**... Peak table for sample 11 : GBSB**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	17,564	0.00	0.0	
28	18,337	0.00	0.0	

Region table for sample 11 : GBSB

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
212	20,705	3,065	17,336.5	9,098.71	 1,190.5	91	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
Modified: 8/15/2014 2:06:46 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-15\2014-08-15_004.xad

Created: 8/15/2014 1:24:05 PM
 Modified: 8/15/2014 2:06:46 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		8/15/2014 2:05:22 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\2014-08-15\2014-08-15_004.xad)		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/15/2014 1:24:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1