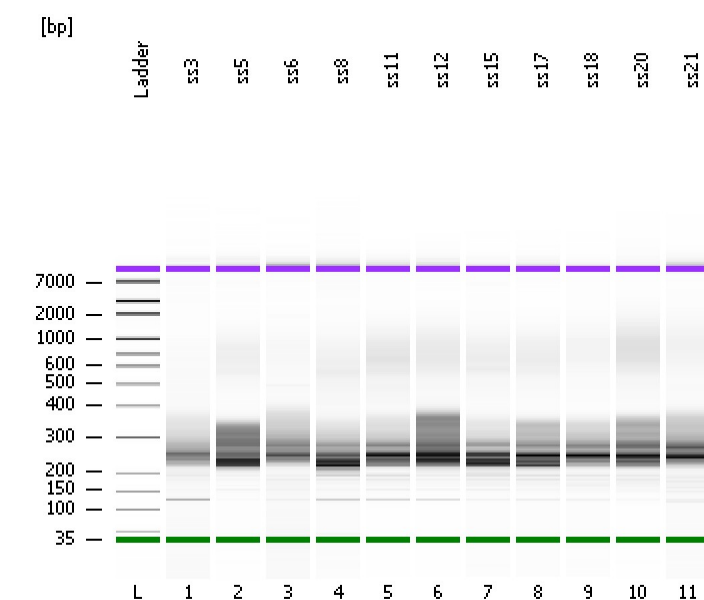


Assay Class: High Sensitivity DNA Assay
Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

Created: 11/13/2013 02:20:27 PM
Modified: 11/13/2013 03:03:03 PM

Electrophoresis File Run Summary



Instrument Information:

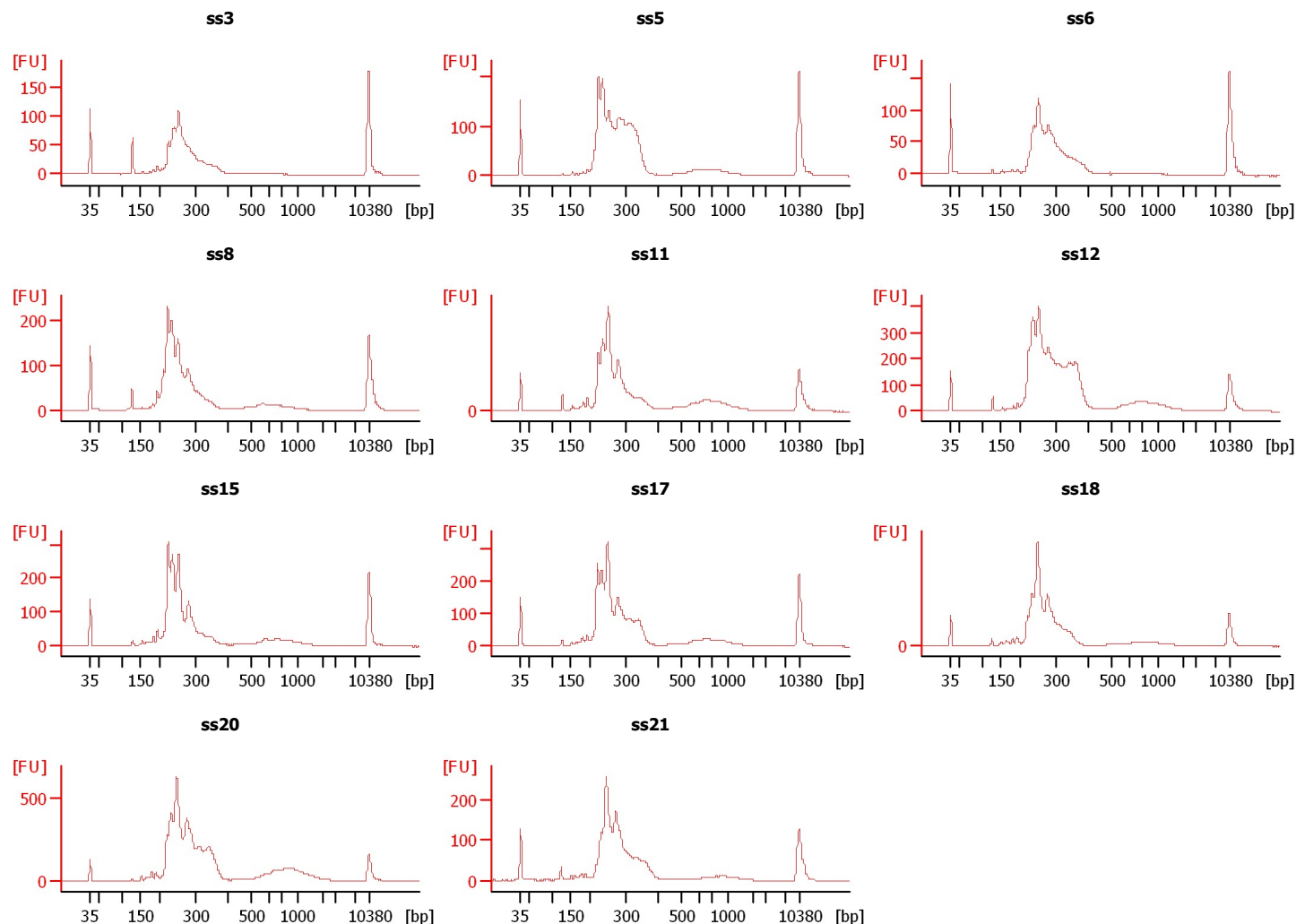
Instrument Name: FHT 051113
Serial#: DE72904888
Firmware: C.01.069
Type: G2938C

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:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

Created: 11/13/2013 02:20:27 PM
Modified: 11/13/2013 03:03:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ss3		☐	✓			
ss5		☐	✓			
ss6		☐	✓			
ss8		☐	✓			
ss11		☐	✓			
ss12		☐	✓			
ss15		☐	✓			
ss17		☐	✓			
ss18		☐	✓			
ss20		☐	✓			
ss21		☐	✓			
Ladder		☐	✓			
Chip Lot #			Reagent Kit Lot #			

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

Created: 11/13/2013 02:20:27 PM
Modified: 11/13/2013 03:03:03 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

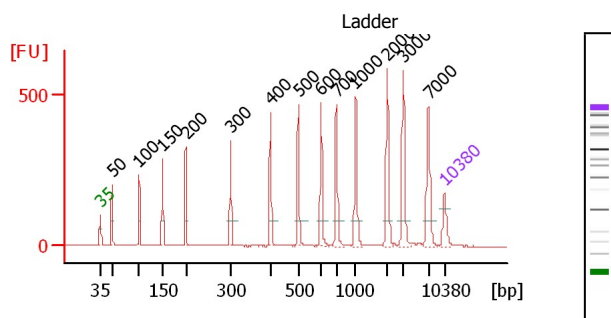
Ladder

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:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

Created: 11/13/2013 02:20:27 PM
 Modified: 11/13/2013 03:03:03 PM

Electropherogram Summary



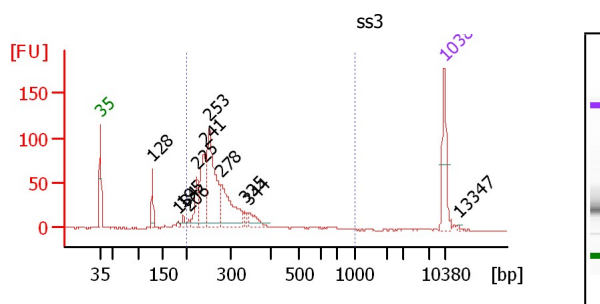
Overall Results for Ladder

Noise: 0.3

Peak table for Ladder

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker



Overall Results for sample 1 : ss3

Number of peaks found: 11
 Noise: 0.3
 Corr. Area 1: 961.6

Region table for sample 1 : ss3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	961.6	87	289	30.2	744.00	4,159.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

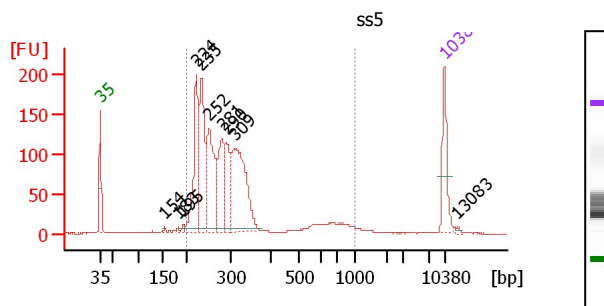
Created: 11/13/2013 02:20:27 PM
 Modified: 11/13/2013 03:03:03 PM

Electropherogram Summary Continued ...

Peak table for sample 1 :

ss3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	50.35	594.7	
3	184	7.40	61.0	
4	195	14.61	113.6	
5	206	7.98	58.6	
6	225	72.43	486.8	
7	241	132.50	834.1	
8	253	263.87	1,581.4	
9	278	165.20	901.7	
10	335	13.33	60.3	
11	344	38.25	168.5	
12	10,380	75.00	10.9	Upper Marker
13	13,347	0.00	0.0	



Overall Results for sample 2 :

ss5

Number of peaks found: 10
 Noise: 0.2
 Corr. Area 1: 2,335.2

Region table for sample 2 :

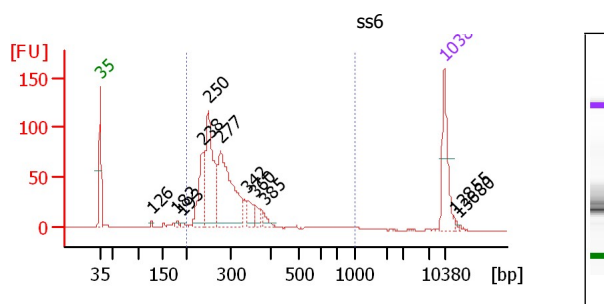
ss5

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,335.2	94	309	40.9	1,418.61	7,769.1	Blue

Peak table for sample 2 :

ss5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	4.28	42.1	
3	183	4.72	39.0	
4	195	7.72	60.0	
5	224	228.41	1,547.7	
6	235	255.29	1,643.4	
7	252	239.05	1,437.7	
8	281	150.70	813.2	
9	290	122.63	639.8	
10	309	304.52	1,495.5	
11	10,380	75.00	10.9	Upper Marker
12	13,083	0.00	0.0	



Overall Results for sample 3 :

ss6

Number of peaks found: 11
 Noise: 0.3
 Corr. Area 1: 1,117.9

Region table for sample 3 :

ss6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,117.9	93	301	31.5	732.09	3,942.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

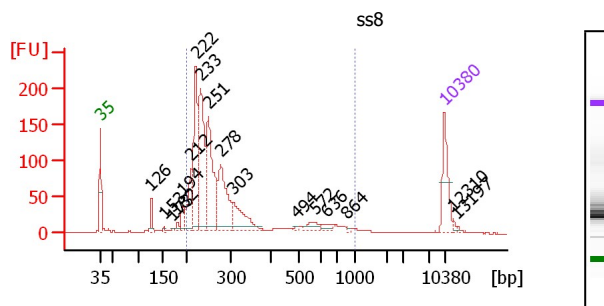
Created: 11/13/2013 02:20:27 PM
 Modified: 11/13/2013 03:03:03 PM

Electropherogram Summary Continued ...

Peak table for sample 3 :

ss6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	4.04	48.4	
3	182	6.35	53.0	
4	193	5.47	42.9	
5	238	116.84	744.1	
6	250	226.90	1,373.3	
7	277	266.88	1,457.9	
8	342	29.88	132.2	
9	360	20.63	86.8	
10	385	13.53	53.2	
11	10,380	75.00	10.9	Upper Marker
12	12,855	0.00	0.0	
13	13,680	0.00	0.0	



Overall Results for sample 4 :

ss8

Number of peaks found: 17
 Noise: 0.2
 Corr. Area 1: 1,993.7

Region table for sample 4 :

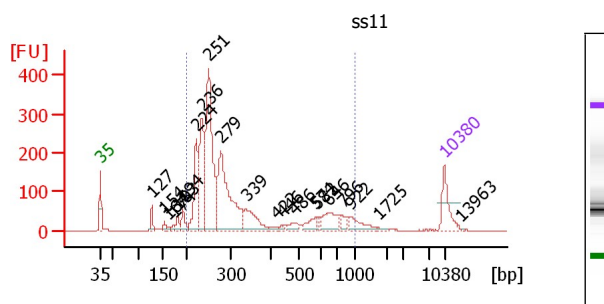
ss8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,993.7	89	300	44.0	1,299.68	7,475.3	Blue

Peak table for sample 4 :

ss8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	30.25	363.3	
3	153	4.94	48.9	
4	173	4.49	39.2	
5	182	11.14	92.5	
6	194	33.73	263.9	
7	212	98.64	706.5	
8	222	233.14	1,587.7	
9	233	273.65	1,776.3	
10	251	269.09	1,625.0	
11	278	186.02	1,013.0	
12	303	105.98	529.6	
13	494	3.03	9.3	
14	572	21.98	58.2	
15	636	13.51	32.2	
16	864	2.78	4.9	
17	10,380	75.00	10.9	Upper Marker
18	12,310	0.00	0.0	
19	13,197	0.00	0.0	



Overall Results for sample 5 :

ss11

Number of peaks found: 21
 Noise: 0.2
 Corr. Area 1: 3,524.9

Region table for sample 5 :

ss11

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,524.9	90	343	49.6	1,854.73	9,924.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

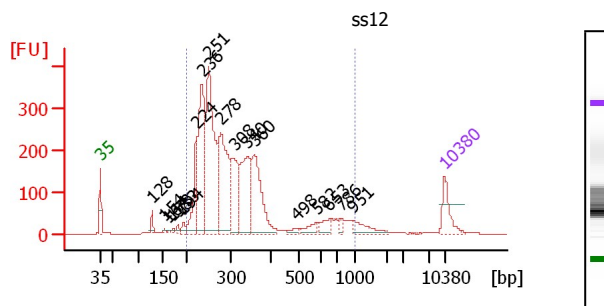
Created: 11/13/2013 02:20:27 PM
 Modified: 11/13/2013 03:03:03 PM

Electropherogram Summary Continued ...

Peak table for sample 5 :

ss11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	34.99	416.6	
3	154	14.78	145.1	
4	164	7.43	68.6	
5	174	11.92	103.9	
6	183	24.68	204.3	
7	194	45.29	354.0	
8	224	201.73	1,367.4	
9	236	285.78	1,833.0	
10	251	551.59	3,327.9	
11	279	460.09	2,501.0	
12	339	116.39	519.9	
13	422	11.68	41.9	
14	446	8.29	28.1	
15	486	25.99	81.1	
16	574	34.81	91.9	
17	582	12.08	31.5	
18	646	73.37	172.0	
19	796	19.41	37.0	
20	922	46.62	76.6	
21	1,725	4.64	4.1	
22	10,380	75.00	10.9	Upper Marker
23	13,963	0.00	0.0	



Overall Results for sample 6 :

ss12

Number of peaks found: 18
 Noise: 0.3
 Corr. Area 1: 5,177.3

Region table for sample 6 :

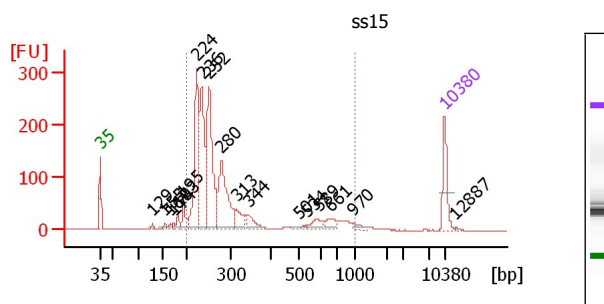
ss12

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,177.3	94	328	41.4	3,033.46	15,909.6	Blue

Peak table for sample 6 :

ss12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	34.06	404.3	
3	154	9.21	90.7	
4	164	6.77	62.5	
5	173	8.57	75.0	
6	183	15.63	129.3	
7	194	22.31	174.3	
8	224	222.57	1,503.5	
9	236	503.13	3,231.1	
10	251	702.18	4,231.1	
11	278	484.67	2,641.1	
12	308	253.40	1,247.4	
13	340	345.76	1,541.3	
14	360	322.94	1,359.0	
15	498	14.89	45.3	
16	582	32.85	85.5	
17	653	40.78	94.6	
18	786	18.91	36.4	
19	951	54.59	86.9	
20	10,380	75.00	10.9	Upper Marker



Overall Results for sample 7 :

ss15

Number of peaks found: 18
 Noise: 0.2
 Corr. Area 1: 2,441.8

Region table for sample 7 :

ss15

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,441.8	91	311	47.8	1,522.26	8,624.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

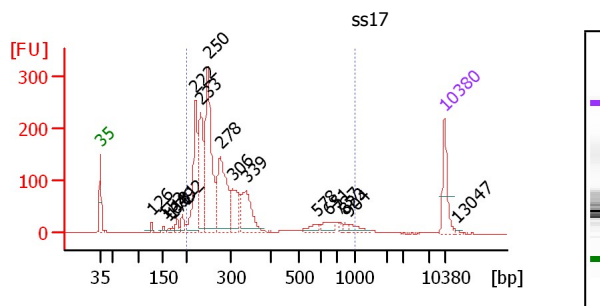
Created: 11/13/2013 02:20:27 PM
 Modified: 11/13/2013 03:03:03 PM

Electropherogram Summary Continued ...

Peak table for sample 7 :

ss15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	8.55	100.8	
3	155	9.83	96.1	
4	167	8.06	73.3	
5	174	8.91	77.5	
6	183	20.60	170.1	
7	195	46.35	360.2	
8	224	320.19	2,161.0	
9	236	308.88	1,985.7	
10	252	379.95	2,285.5	
11	280	251.12	1,359.7	
12	313	50.79	245.6	
13	344	42.55	187.5	
14	501	7.72	23.4	
15	534	5.53	15.7	
16	589	29.75	76.5	
17	661	27.94	64.0	
18	970	12.12	18.9	
19	10,380	75.00	10.9	Upper Marker
20	12,887	0.00	0.0	



Overall Results for sample 8 :

ss17

Number of peaks found: 18
 Noise: 0.2
 Corr. Area 1: 2,835.4

Region table for sample 8 :

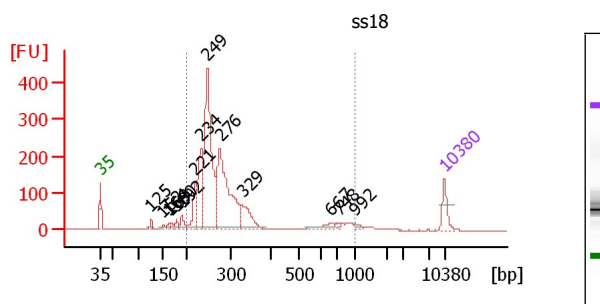
ss17

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,835.4	92	314	45.2	1,647.58	9,131.0	Blue

Peak table for sample 8 :

ss17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	10.88	130.3	
3	152	8.43	83.9	
4	164	6.65	61.3	
5	171	7.39	65.3	
6	181	20.42	170.7	
7	192	26.80	211.3	
8	222	262.87	1,796.5	
9	233	246.41	1,599.3	
10	250	436.45	2,648.8	
11	278	284.87	1,554.8	
12	306	114.79	569.0	
13	339	133.72	598.2	
14	578	18.46	48.4	
15	651	30.38	70.7	
16	737	8.42	17.3	
17	823	8.74	16.1	
18	904	20.42	34.2	
19	10,380	75.00	10.9	Upper Marker
20	13,047	0.00	0.0	



Overall Results for sample 9 :

ss18

Number of peaks found: 14
 Noise: 0.2
 Corr. Area 1: 3,083.2

Region table for sample 9 :

ss18

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,083.2	91	307	43.3	2,614.51	14,476.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

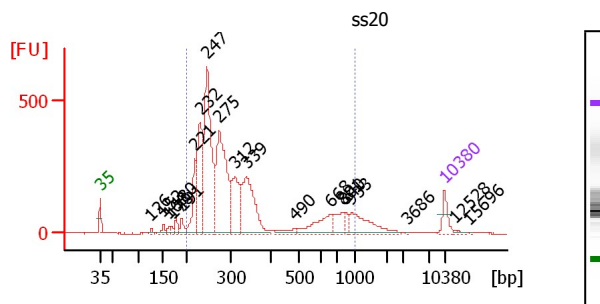
Created: 11/13/2013 02:20:27 PM
 Modified: 11/13/2013 03:03:03 PM

Electropherogram Summary Continued ...

Peak table for sample 9 :

ss18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	26.31	317.7	
3	152	17.04	170.1	
4	164	23.04	213.1	
5	169	15.70	140.9	
6	180	30.03	252.3	
7	192	52.98	418.4	
8	221	157.37	1,077.4	
9	234	356.40	2,311.6	
10	249	933.97	5,689.8	
11	276	813.82	4,474.8	
12	329	173.13	797.8	
13	667	30.25	68.7	
14	748	7.31	14.8	
15	992	11.33	17.3	
16	10,380	75.00	10.9	Upper Marker



Overall Results for sample 10 :

ss20

Number of peaks found: 20
 Noise: 0.2
 Corr. Area 1: 6,476.6

Region table for sample 10 :

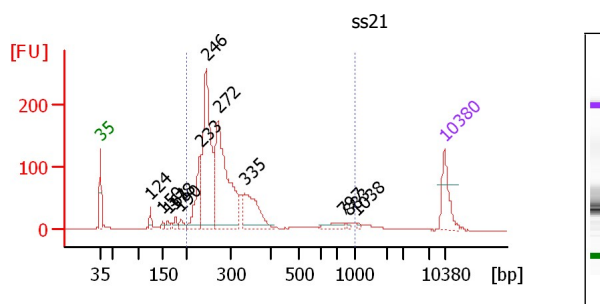
ss20

From To [bp]	Corr. Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	6,476.6	90	345	49.4	4,317.11	22,713.5

Peak table for sample 10 :

ss20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	14.06	169.6	
3	152	30.95	309.4	
4	163	24.04	223.3	
5	170	25.26	225.5	
6	180	54.99	462.4	
7	191	66.65	528.1	
8	221	275.10	1,887.3	
9	232	581.30	3,794.6	
10	247	1,126.43	6,901.4	
11	275	932.64	5,140.9	
12	312	387.08	1,881.4	
13	339	578.14	2,582.4	
14	490	44.03	136.2	
15	668	191.28	433.8	
16	801	97.10	183.7	
17	840	38.59	69.6	
18	933	208.50	338.4	
19	3,686	1.40	0.6	
20	10,380	75.00	10.9	Upper Marker
21	12,528	0.00	0.0	
22	15,696	0.00	0.0	



Overall Results for sample 11 :

ss21

Number of peaks found: 12
 Noise: 0.2
 Corr. Area 1: 2,172.7

Region table for sample 11 :

ss21

From To [bp]	Corr. Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,172.7	90	310	40.2	1,423.80	7,708.2

Peak table for sample 11 :

ss21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	124	22.77	278.4	
3	150	9.21	93.1	
4	161	11.77	110.6	
5	178	15.38	131.1	
6	190	18.16	145.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

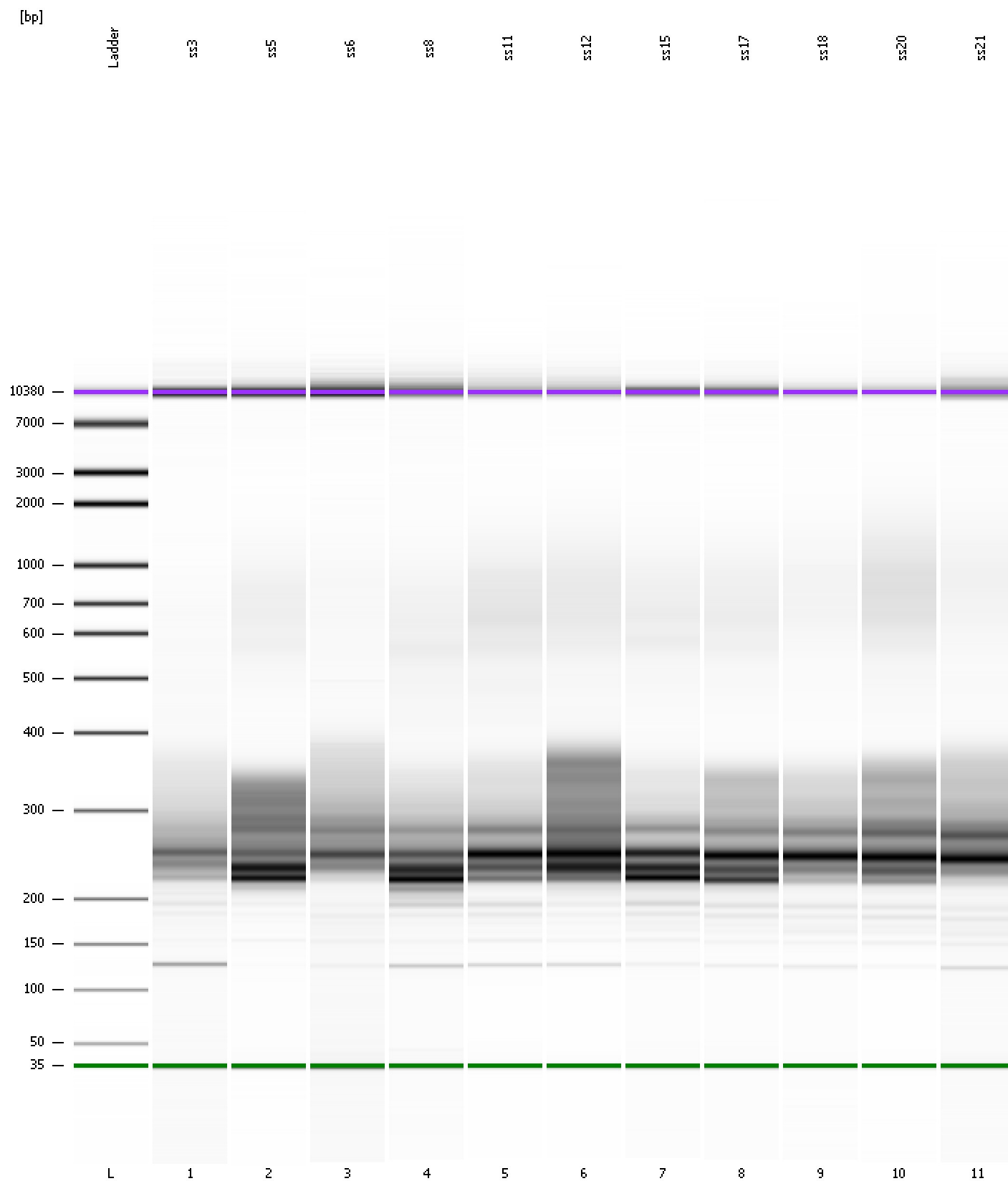
Created: 11/13/2013 02:20:27 PM
Modified: 11/13/2013 03:03:03 PM

Gel Image

7 233 153.92 1,000.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

Created: 11/13/2013 02:20:27 PM
Modified: 11/13/2013 03:03:03 PM

Curves

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Documents and Settings\bioanalyzer\Desktop\FHT131113.xad

Created: 11/13/2013 02:20:27 PM
Modified: 11/13/2013 03:03:03 PM

Curves

Standard Curve

