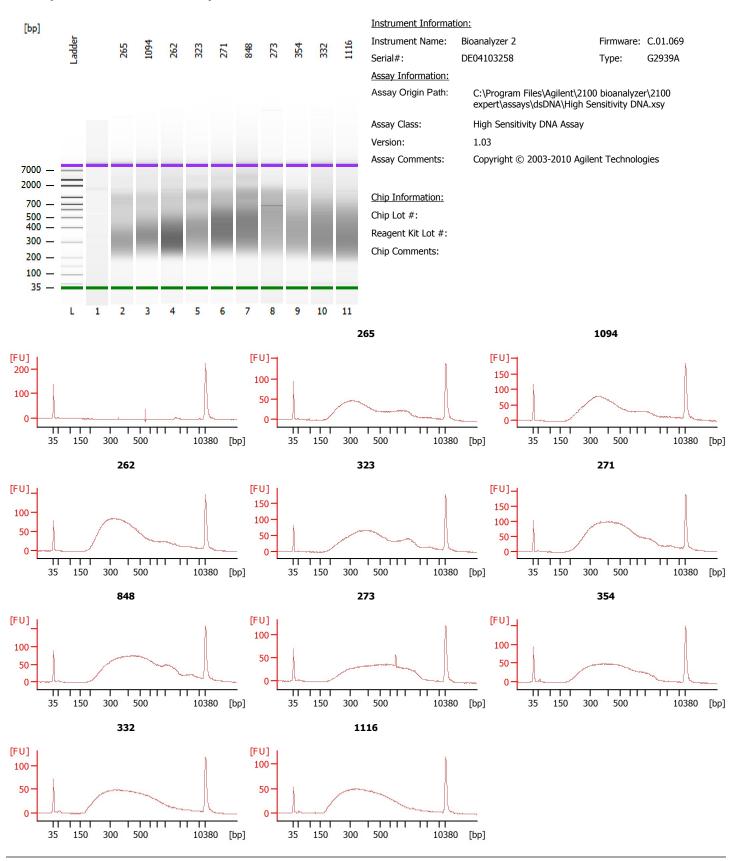
Assay Class: High Sensitivity DNA Assay Created: 12/16/2014 11:45:03 AM Data Path: C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 12:44:39 PM

Electrophoresis File Run Summary



Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Stat Observation us	Result Label	Result Color	
265			✓			
1094			✓			
262			✓			
323			✓			
271			✓			
848			✓			
273			✓			
354			✓			
332			✓			
1116			✓			
Ladder			~			
Chip Lot #				Reager	it Kit Lot #	

Chip Comments:

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

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

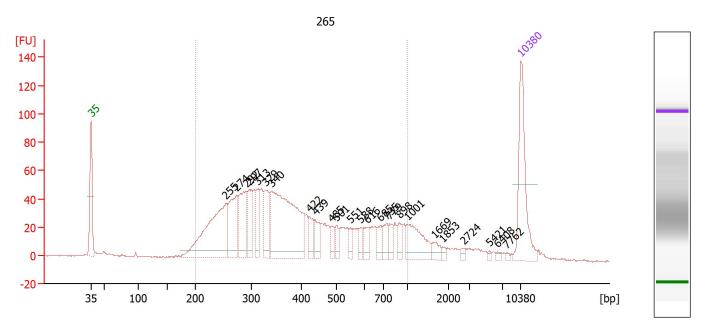
Filter Width [s]: 0.5 Polynomial Order: 4

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 C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary



Overall Results for sample 2: <u>265</u>

Number of peaks found: 25 Corr. Area 1: 1,463.8

Peak table	for sample 2:	<u> 265</u>		
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/I]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	176.80	1,052.5	
3	274	75.69	418.2	
4	292	70.15	364.3	
5	297	42.93	219.2	
6	313	34.14	165.4	
7	329	46.85	215.8	
8	340	224.61	1,000.3	
9	422	19.75	70.9	
10	439	24.53	84.7	
11	485	12.25	38.3	
12	501	12.08	36.5	
13	551	10.62	29.2	
14	588	10.27	26.5	
15	616	17.36	42.7	
16	685	14.78	32.7	
17	735	16.13	33.2	
18	779	11.76	22.9	
19	898	12.77	21.6	
20	1,001	46.34	70.1	
21	1,669	9.74	8.8	
22	1,853	3.15	2.6	
23	2,724	2.97	1.7	
24	5,421	1.94	0.5	
25	6,408	2.58	0.6	
26	7,762	1.92	0.4	

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Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...

... Peak table for sample 2 : <u>265</u>

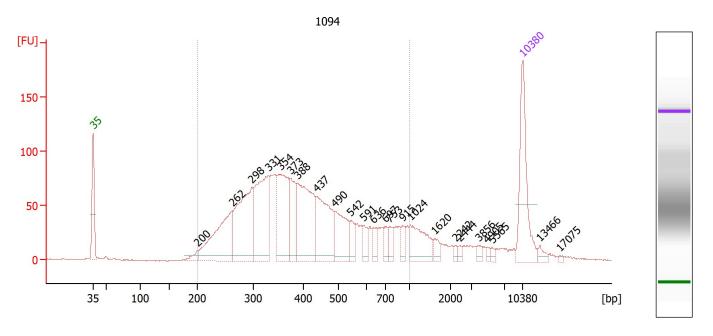
PeakSize [bp]Conc. [pg/μl]Molarity [pmol/l]Observations2710,38075.0010.9Upper Marker

Region table for sample 2: <u>265</u>

To [bp] Corr. % of **Average Size** Size distribution in Conc. Molarity From Co [bp] Area Total [bp] **CV** [%] [pg/µl] [pmol/l] lor 200 1,000 1,463.8 86 420 42.6 4,537.0 1,028.90

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 3: 1094

Number of peaks found: 24 Corr. Area 1: 2,205.2

Peak tabl	e for sample 3	<u> 1094</u>		
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	200	11.18	84.9	
3	262	135.41	781.8	
4	298	158.45	806.6	
5	331	147.29	674.9	
6	354	112.71	482.8	
7	373	53.42	216.7	
8	388	134.89	527.4	
9	437	101.99	353.3	
10	490	61.06	188.9	
11	542	19.31	53.9	
12	591	16.74	43.0	
13	636	12.64	30.1	
14	697	13.07	28.4	
15	753	13.50	27.2	
16	915	12.56	20.8	
17	1,024	46.82	69.3	
18	1,620	8.85	8.3	
19	2,242	3.62	2.4	
20	2,444	3.85	2.4	
21	3,856	5.08	2.0	
22	4,905	3.15	1.0	
23	5,565	3.48	0.9	
24	10,380	75.00	10.9	Upper Marker
25	13,466	0.00	0.0	
26	17,075	0.00	0.0	

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Assay Class:

High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM Data Path:

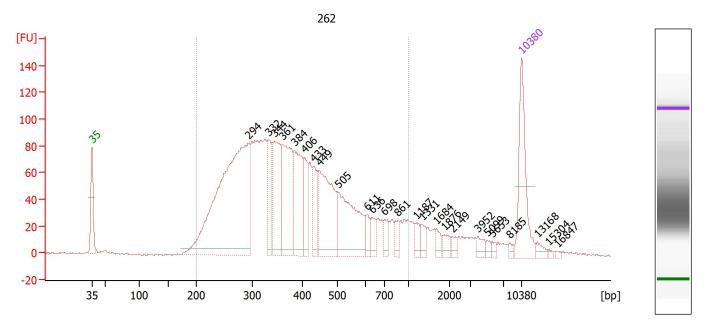
Electropherogram Summary Continued ...

... Region table for sample 3: <u>1094</u>

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]		Molarity [pmol/l]	Co lor
200	1,000	2,205.2	85	425	38.3	1,152.03	4,837.5	

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 4: <u>262</u>

Number of peaks found: 25 Corr. Area 1: 2,534.5

Peak table for sample 4:		<u> 262</u>		
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	294	514.17	2,652.8	
3	332	66.44	303.1	
4	344	114.29	502.7	
5	361	140.95	592.0	
6	384	104.32	411.4	
7	406	47.43	176.8	
8	433	42.47	148.7	
9	449	141.59	478.3	
10	505	130.83	392.6	
11	611	15.02	37.2	
12	636	18.35	43.7	
13	698	13.73	29.8	
14	861	13.14	23.1	
15	1,187	12.24	15.6	
16	1,331	12.63	14.4	
17	1,684	10.57	9.5	
18	1,876	10.80	8.7	
19	2,149	6.47	4.6	
20	3,952	9.44	3.6	
21	5,099	4.80	1.4	
22	5,653	4.39	1.2	
23	8,185	4.21	0.8	
24	10,380	75.00	10.9	Upper Marker
25	13,168	0.00	0.0	
26	15,304	0.00	0.0	

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Assay Class:

High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM Data Path:

Electropherogram Summary Continued ...

... Peak table for sample 4: <u> 262</u>

Size [bp] Molarity [pmol/l] **Observations Peak** Conc. [pg/µl]

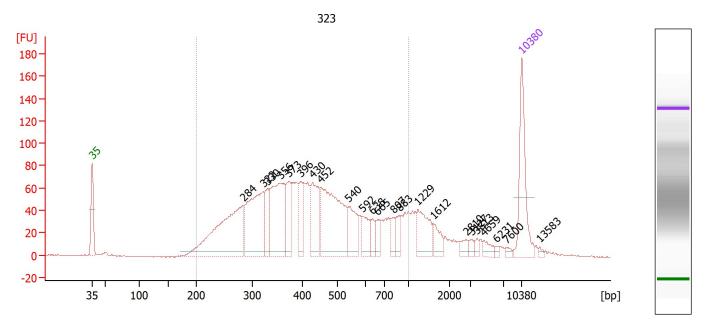
27 16,847 0.00 0.0

Region table for sample 4: <u> 262</u>

To [bp] Corr. % of **Average Size** Size distribution in Conc. Molarity From Co **CV** [%] [bp] Area Total [bp] [pg/µl] [pmol/l] lor 200 1,000 2,534.5 88 404 37.9 7,564.4 1,722.65

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 5 : 323

Number of peaks found: 23 Corr. Area 1: 2,063.2

Peak ta	ble	for sample 5:	<u>323</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	∢ :	35	125.00	5,411.3	Lower Marker
2		284	237.48	1,267.2	
3		322	163.01	767.0	
4		330	42.42	194.8	
5		356	149.21	635.3	
6		373	51.76	210.2	
7		396	43.45	166.1	
8		430	77.90	274.4	
9		452	183.68	615.6	
10		540	48.28	135.4	
11		592	31.52	80.7	
12		638	14.90	35.4	
13		665	18.29	41.7	
14		807	17.12	32.1	
15		883	17.02	29.2	
16		1,229	50.04	61.7	
17		1,612	19.66	18.5	
18		2,810	8.71	4.7	
19		3,127	6.39	3.1	
20		3,813	4.72	1.9	
21		4,659	9.84	3.2	
22		6,231	2.86	0.7	
23		7,600	3.98	0.8	
24		10,380	75.00	10.9	Upper Marker
25		13,583	0.00	0.0	

Assay Class: Data Path: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM

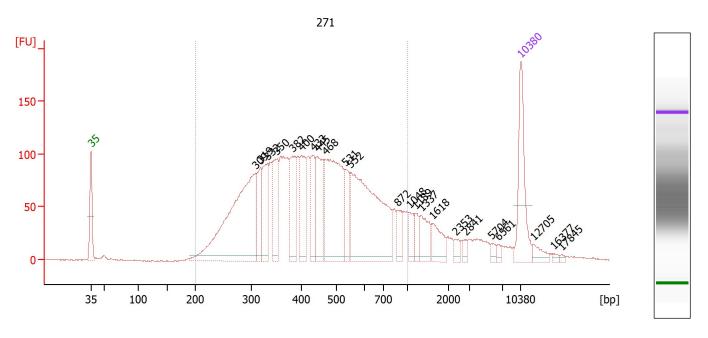
Electropherogram Summary Continued ...

... Region table for sample 5: <u>323</u>

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]		Molarity [pmol/l]	Co lor
200	1,000	2,063.2	83	446	38.3	1,320.80	5,351.5	

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 6: 271

Number of peaks found: 23 Corr. Area 1: 3,095.1

Peak ta	able	for sample 6:	<u>271</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2		309	348.49	1,709.7	
3		319	58.71	278.9	
4		332	75.83	345.7	
5		350	81.14	351.4	
6		382	77.71	308.1	
7		400	71.30	269.8	
8		433	54.97	192.2	
9		445	85.74	292.0	
10		468	201.82	653.3	
11		531	43.33	123.5	
12		552	272.33	747.6	
13		872	22.68	39.4	
14		1,048	18.77	27.1	
15		1,189	15.65	19.9	
16		1,337	31.99	36.2	
17		1,618	31.23	29.2	
18		2,353	8.49	5.5	
19		2,841	6.92	3.7	
20		5,704	5.98	1.6	
21		6,561	4.60	1.1	
22		10,380	75.00	10.9	Upper Marker
23		12,705	0.00	0.0	
24		16,377	0.00	0.0	
25		17,845	0.00	0.0	

Assay Class: Data Path: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM

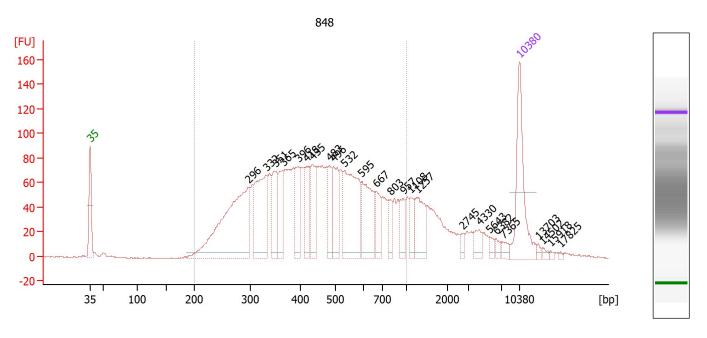
Electropherogram Summary Continued ...

... Region table for sample 6: <u>271</u>

From [bp]	To [bp	o] Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]		Molarity [pmol/l]	Co lor
200	1,000	3,095.1	85	456	35.3	1,707.64	6,626.5	

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 7: 848

Number of peaks found: 25 Corr. Area 1: 2,471.4

Peak ta	ble	for sample 7:	<u>848</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	∢ .	35	125.00	5,411.3	Lower Marker
2		296	255.78	1,308.4	
3		332	116.88	533.0	
4		351	57.98	250.6	
5		365	50.81	210.7	
6		396	46.79	179.1	
7		418	37.37	135.4	
8		435	51.59	179.8	
9		483	38.32	120.1	
10		496	55.96	170.9	
11		532	121.41	346.1	
12		595	75.35	192.0	
13		667	31.41	71.4	
14		803	18.42	34.8	
15		957	22.30	35.3	
16		1,108	20.50	28.0	
17		1,257	40.19	48.4	
18		2,745	6.19	3.4	
19		4,330	12.00	4.2	
20		5,643	5.05	1.4	
21		6,382	5.35	1.3	
22		7,365	6.44	1.3	
		10,380	75.00	10.9	Upper Marker
24		13,703	0.00	0.0	
25		14,502	0.00	0.0	
26		15,918	0.00	0.0	

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Assay Class:

High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM Data Path:

Electropherogram Summary Continued ...

... Peak table for sample 7: <u>848</u>

Size [bp] Molarity [pmol/l] **Observations Peak** Conc. [pg/µl]

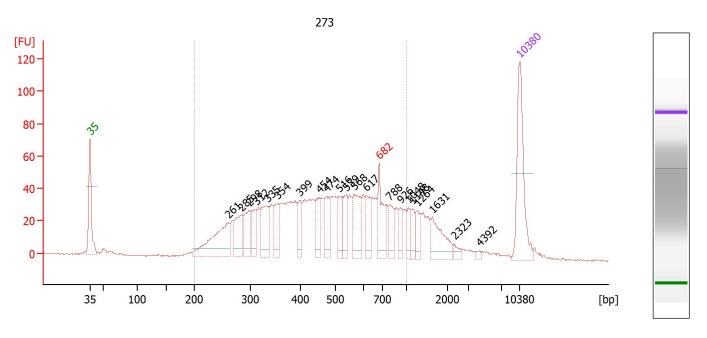
27 17,825 0.00 0.0

Region table for sample 7: 848

From To [bp] Corr. % of **Average Size** Size distribution in Conc. Molarity Co **CV** [%] [bp] Area Total [bp] [pg/µl] [pmol/l] lor 200 1,000 2,471.4 81 36.6 5,419.0 467 1,405.46

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 8: 273

Number of peaks found: 21 Corr. Area 1: 1,273.1

Peak t	able	for sample 8:	<u>273</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2		261	94.62	550.2	
3		285	45.35	241.0	
4		298	38.01	193.3	
5		312	31.09	151.0	
6		335	49.21	222.5	
7		354	33.67	144.1	
8		399	26.51	100.7	
9		454	32.58	108.8	
10		474	32.93	105.2	
11		516	24.54	72.1	
12		539	27.59	77.6	
13		568	45.85	122.3	
14		617	31.80	78.1	
15	7	682	48.68	108.2	excluded peak
16		788	23.24	44.7	
17		926	15.66	25.6	
18		1,048	14.82	21.4	
19		1,148	14.30	18.9	
20		1,264	13.47	16.1	
21		1,631	36.85	34.2	
22		2,323	6.07	4.0	
23		4,392	2.80	1.0	
24		10,380	75.00	10.9	Upper Marker

Assay Class: Data Path: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM

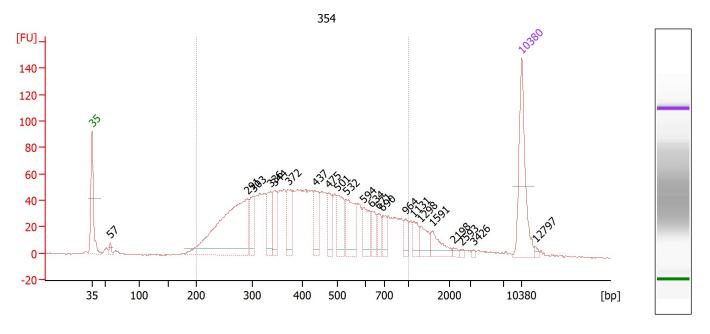
Electropherogram Summary Continued ...

... Region table for sample 8: <u>273</u>

From [bp]	To [bp] Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]		Molarity [pmol/l]	Co lor
200	1,000	1,273.1	84	486	37.1	1,006.44	3,795.2	

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 9: 354

Number of peaks found: 22 Corr. Area 1: 1,678.9

Peak table for sample 9: <u>354</u>						
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	
1	4	35	125.00	5,411.3	Lower Marker	
2		57	7.32	195.1		
3		291	260.56	1,357.4		
4		303	42.46	212.0		
5		336	40.01	180.3		
6		344	42.76	188.2		
7		372	48.48	197.7		
8		437	39.07	135.3		
9		475	34.40	109.8		
10		501	44.10	133.3		
11		532	57.76	164.5		
12		594	31.88	81.3		
13		634	20.70	49.5		
14		671	16.08	36.3		
15		690	17.93	39.4		
16		964	13.88	21.8		
17		1,131	16.19	21.7		
18		1,298	19.61	22.9		
19		1,591	21.70	20.7		
20		2,198	3.62	2.5		
21		2,593	2.07	1.2		
22		3,426	1.72	0.8		
23		10,380	75.00	10.9	Upper Marker	
24		12,797	0.00	0.0		

Assay Class:

High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM Data Path:

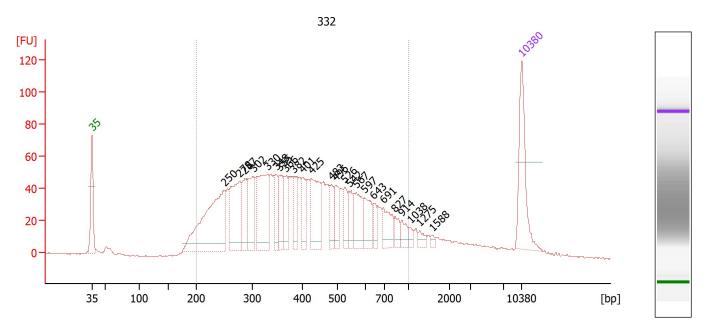
Electropherogram Summary Continued ...

... Region table for sample 9: <u>354</u>

From To [bp] Corr. % of **Average Size** Size distribution in Conc. Molarity Co Area Total CV [%] [pg/µl] [pmol/l] [bp] [bp] lor 200 1,000 1,678.9 88 37.7 4,835.9 447 1,194.77

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 10 : 332

Number of peaks found: 24 Corr. Area 1: 1,786.1

Peak tab	Peak table for sample 10 : 332							
Peak	Size [bp	o] Conc. [pg/μl]	Molarity [pmol/l]	Observations				
1 +	35	125.00	5,411.3	Lower Marker				
2	250	229.25	1,391.5					
3	278	120.56	657.9					
4	287	59.49	314.1					
5	302	69.51	348.6					
6	330	123.93	569.5					
7	348	41.92	182.7					
8	355	43.88	187.5					
9	366	39.39	163.0					
10	382	40.53	160.7					
11	401	38.03	143.7					
12	425	79.44	283.3					
13	483	29.59	92.7					
14	496	35.38	108.0					
15	526	28.31	81.5					
16	542	24.43	68.2					
17	567	46.21	123.4					
18	597	38.46	97.6					
19	643	17.50	41.2					
20	691	37.26	81.7					
21	827	14.90	27.3					
22	914	14.92	24.7					
23	1,038	6.77	9.9					
24	1,275	8.33	9.9					
25	1,588	3.79	3.6					
26	10,380	75.00	10.9	Upper Marker				

Assay Class:

High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad Created: 12/16/2014 11:45:03 AM Modified: 12/16/2014 12:44:39 PM Data Path:

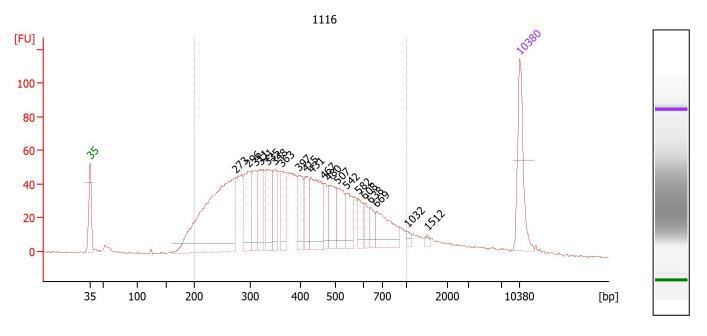
Electropherogram Summary Continued ...

... Region table for sample 10: <u>332</u>

From [bp]	To [bp] Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]		Molarity [pmol/l]	Co lor
200	1,000	1,786.1	87	428	38.7	1,637.73	6,988.1	

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE04103258_2014-12-16_11-45-03.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 11: 1116

Number of peaks found: 20 Corr. Area 1: 1,697.7

Noise: 0.3

Peak table for sample 11: 1116							
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations			
1	35	125.00	5,411.3	Lower Marker			
2	273	417.82	2,317.9				
3	296	86.90	444.2				
4	311	69.27	337.1				
5	321	68.24	322.0				
6	335	73.84	333.9				
7	348	48.78	212.2				
8	363	60.05	250.7				
9	397	52.20	199.2				
10	415	44.47	162.4				
11	431	105.95	372.5				
12	467	33.31	108.0				
13	480	56.52	178.3				
14	507	53.91	161.2				
15	542	42.83	119.8				
16	582	27.39	71.3				
17	608	20.01	49.9				
18	638	20.64	49.0				
19	669	63.16	143.1				
20	1,032	5.26	7.7				
21	1,512	3.84	3.9				
22	10,380	75.00	10.9	Upper Marker			
Pegion tah	le for sample 11	. 1116					

Region table for sample 11: 1116

From [bp]	To [bp] Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]		Molarity [pmol/l]	Co lor
200	1,000	1,697.7		415	38.0	1,771.16		

