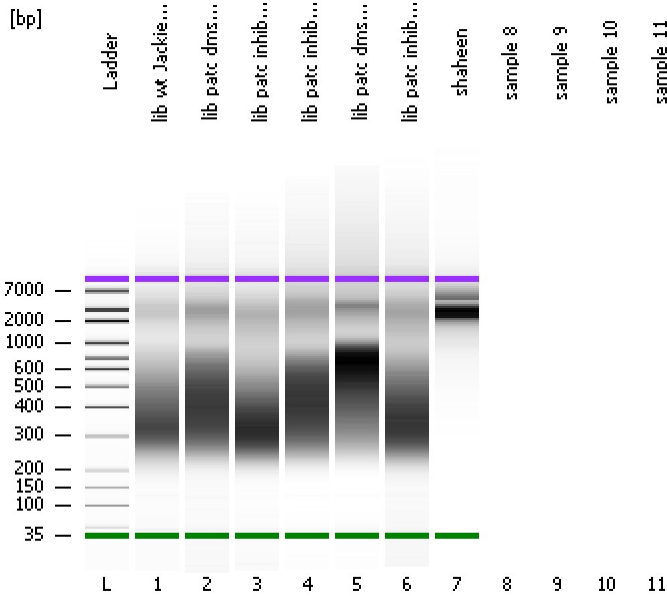


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

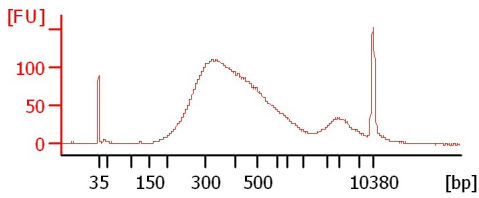
Assay Information:

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

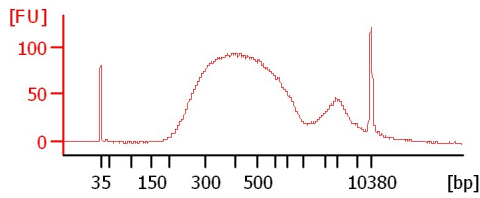
Chip Information:

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

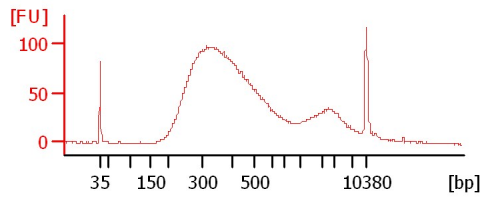
lib wt Jackie I6



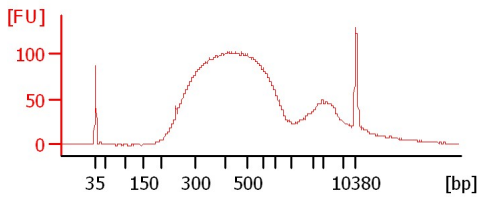
lib patc dms 1d I7



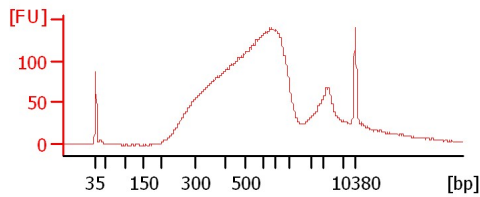
lib patc inhib 1d 1 I12



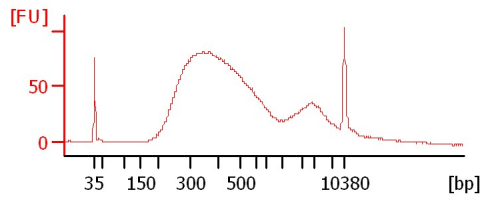
lib patc inhib 1d 2 I14



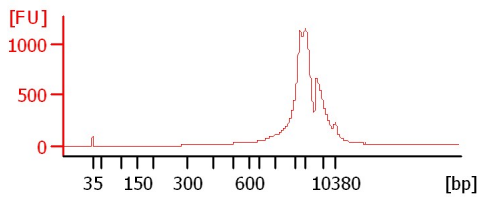
lib patc dms 3d I15



lib patc inhib 3d I16



shaheen



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib wt Jackie I6		<input type="checkbox"/>	✓			
lib patc dms0 1d I7		<input type="checkbox"/>	✓			
lib patc inhib 1d 1 I12		<input type="checkbox"/>	✓			
lib patc inhib 1d 2 I14		<input type="checkbox"/>	✓			
lib patc dms0 3d I15		<input type="checkbox"/>	✓			
lib patc inhib 3d I16		<input type="checkbox"/>	✓			
shaheen		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 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

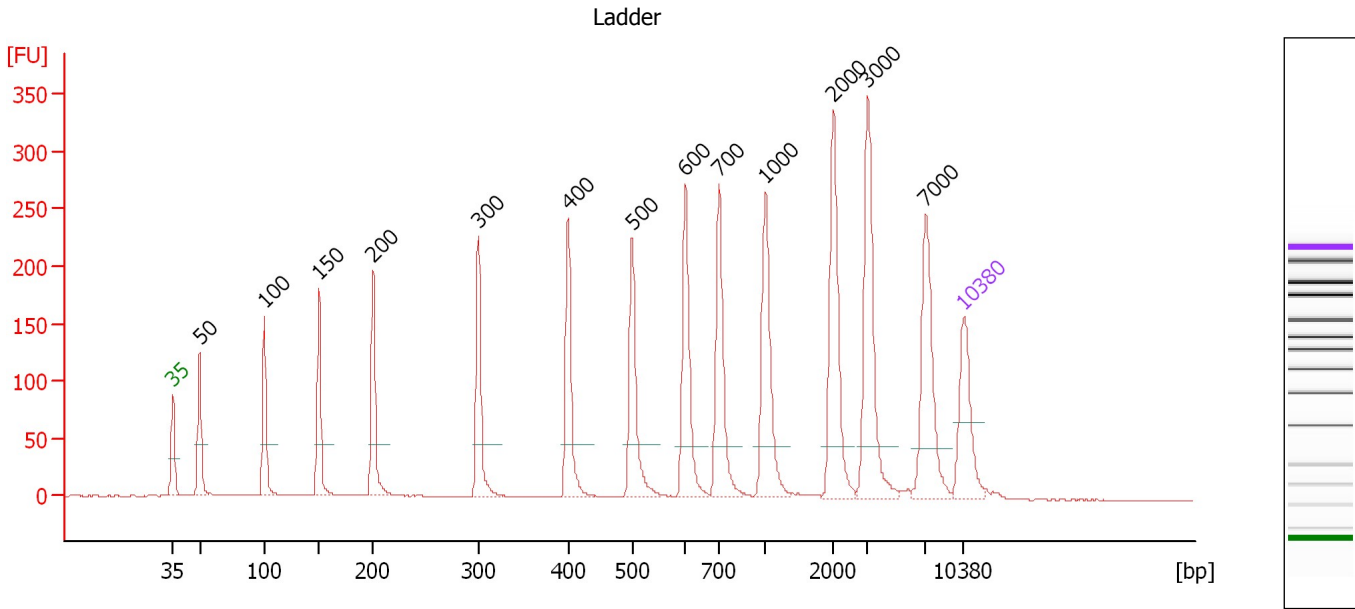
Ladder

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\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

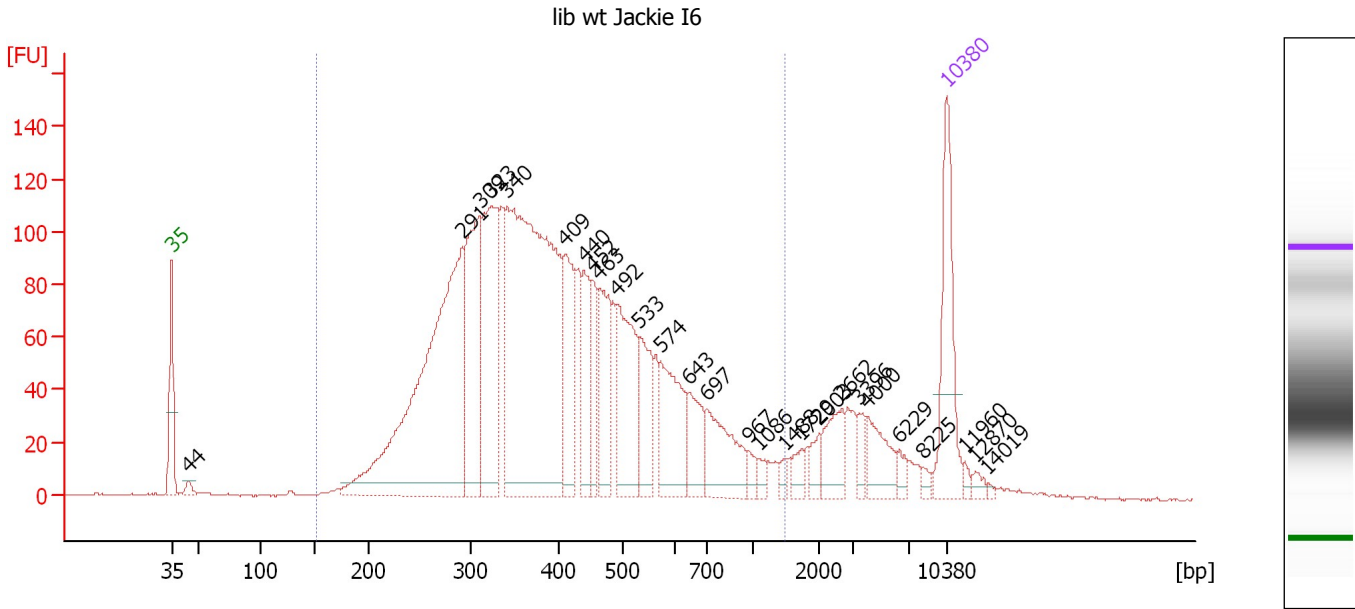
Peak table for Ladder

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	51.11
4	150	150.00	1,515.2	Ladder Peak	55.97
5	200	150.00	1,136.4	Ladder Peak	60.74
6	300	150.00	757.6	Ladder Peak	70.08
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.66
9	600	150.00	378.8	Ladder Peak	88.38
10	700	150.00	324.7	Ladder Peak	91.35
11	1,000	150.00	227.3	Ladder Peak	95.45
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.51
14	7,000	150.00	32.5	Ladder Peak	109.60
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : lib wt Jackie I6

Number of peaks found: 27 Corr. Area 1: 3,097.4
 Noise: 0.3

Peak table for sample 1 : lib wt Jackie I6

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	44	8.61	294.4		44.49
3	291	465.43	2,420.4		69.27
4	309	175.04	857.7		70.81
5	323	176.32	828.1		71.87
6	340	526.19	2,343.5		73.26
7	409	94.46	350.0		78.51
8	440	58.82	202.8		80.24
9	452	42.97	144.0		80.96
10	463	77.75	254.3		81.58
11	492	110.56	340.3		83.22
12	533	55.58	157.8		85.24
13	574	84.81	223.7		87.16
14	643	40.04	94.3		89.67
15	697	67.37	146.5		91.25
16	967	9.73	15.2		95.01
17	1,086	7.37	10.3		95.97
18	1,488	4.96	5.1		98.37
19	1,729	9.96	8.7		99.82
20	2,003	12.34	9.3		101.45
21	2,662	30.64	17.4		103.47
22	3,396	12.63	5.6		105.01
23	4,000	31.69	12.0		105.78
24	6,229	8.11	2.0		108.62
25	8,225	4.43	0.8		110.84

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : lib wt Jackie I6

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	11,960	0.00	0.0		114.59
28	12,870	0.00	0.0		115.50
29	14,019	0.00	0.0		116.66

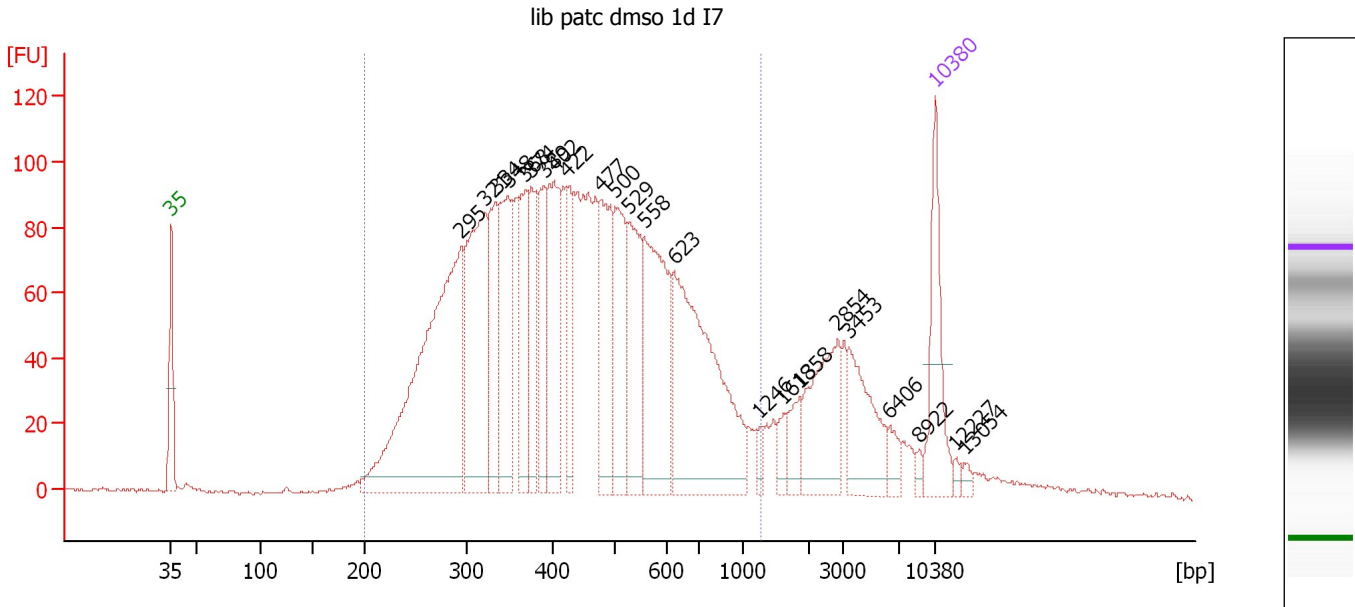
Region table for sample 1 : lib wt Jackie I6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
151	1,470	425	2,168.49	3,097.4	9,185.9	90	41.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : lib patc dms0 1d I7

Number of peaks found: 23 Corr. Area 1: 3,004.7
 Noise: 0.5

Peak table for sample 2 : lib patc dms0 1d I7

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	295	521.61	2,677.7		69.62
3	321	252.03	1,188.1		71.77
4	334	113.60	514.8		72.80
5	348	148.87	648.3		73.87
6	368	104.67	430.7		75.48
7	374	75.40	305.1		75.97
8	389	95.90	373.3		77.15
9	402	144.30	543.7		78.12
10	422	75.86	272.4		79.25
11	477	137.39	436.2		82.37
12	500	117.74	357.0		83.64
13	529	114.67	328.7		85.01
14	558	201.81	548.4		86.38
15	623	295.93	719.6		89.06
16	1,246	10.21	12.4		96.93
17	1,613	16.09	15.1		99.13
18	1,858	26.30	21.4		100.59
19	2,854	94.77	50.3		104.06
20	3,453	77.51	34.0		105.09
21	6,406	15.79	3.7		108.85
22	8,922	5.21	0.9		111.53
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,227	0.00	0.0		114.86
25	13,054	0.00	0.0		115.69

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

... Region table for sample 2 :

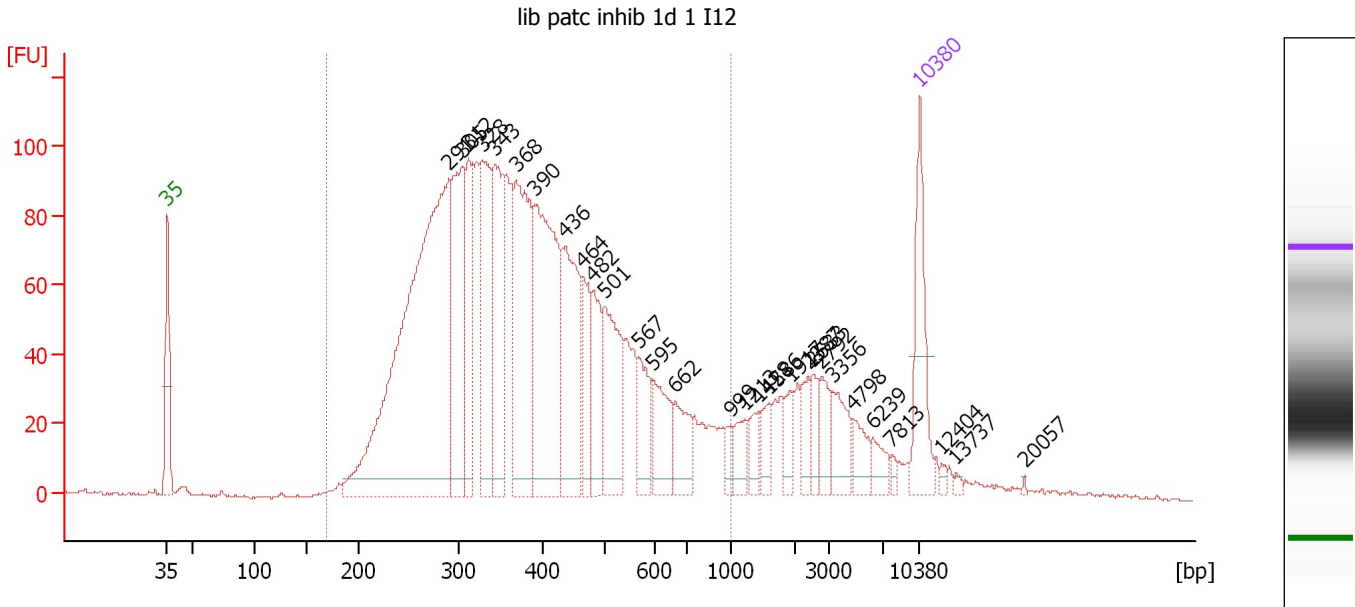
lib patc dms0 1d I7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,251	456	2,851.95	3,004.7	11,177.6	 86	37.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : lib patc inhib 1d 1 I12

Number of peaks found: 29 Corr. Area 1: 2,692.7
 Noise: 0.4

Peak table for sample 3 : lib patc inhib 1d 1 I12

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	291	789.73	4,118.0		69.19
3	305	203.20	1,008.9		70.48
4	312	118.61	575.9		71.03
5	328	174.41	804.9		72.32
6	343	172.24	760.1		73.51
7	368	233.53	962.1		75.45
8	390	280.89	1,092.2		77.18
9	436	165.09	573.2		80.06
10	464	66.62	217.4		81.65
11	482	71.46	224.7		82.64
12	501	124.40	375.8		83.73
13	567	55.91	149.5		86.81
14	595	63.24	161.0		88.15
15	662	47.69	109.1		90.23
16	999	13.60	20.6		95.44
17	1,213	23.99	30.0		96.73
18	1,428	20.42	21.7		98.02
19	1,586	21.84	20.9		98.96
20	1,917	21.43	16.9		100.94
21	2,387	22.26	14.1		102.63
22	2,533	20.46	12.2		103.08
23	2,792	25.12	13.6		103.87
24	3,356	38.35	17.3		104.96
25	4,798	23.50	7.4		106.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : lib patc inhib 1d 1 I12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,239	17.95	4.4		108.63
27	7,813	4.89	0.9		110.42
28	10,380	75.00	10.9	Upper Marker	113.00
29	12,404	0.00	0.0		115.03
30	13,737	0.00	0.0		116.37
31	20,057	0.00	0.0		122.72

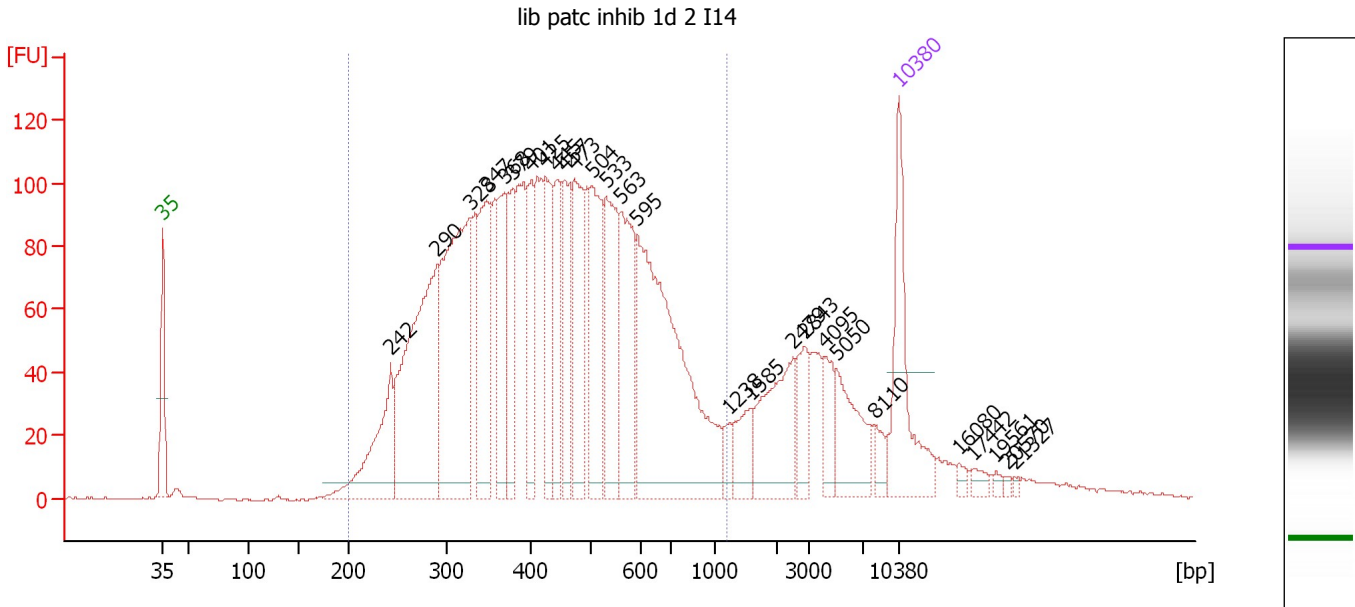
Region table for sample 3 : lib patc inhib 1d 1 I12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
169	1,000	399	2,962.29	2,692.7	12,987.2	86	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : lib patc inhib 1d 2 I14

Number of peaks found: 27 Corr. Area 1: 3,220.6
 Noise: 0.3

Peak table for sample 4 : lib patc inhib 1d 2 I14

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	242	108.01	675.2		64.69
3	290	269.97	1,412.4		69.10
4	328	256.13	1,183.0		72.30
5	347	119.66	522.1		73.82
6	368	81.84	336.6		75.49
7	379	67.63	270.7		76.30
8	401	61.52	232.2		78.08
9	425	69.60	248.4		79.39
10	445	64.15	218.3		80.56
11	457	71.75	238.0		81.22
12	473	95.17	304.9		82.13
13	504	101.81	306.0		83.85
14	533	104.60	297.3		85.22
15	563	97.55	262.4		86.64
16	595	284.38	723.6		88.16
17	1,238	11.30	13.8		96.88
18	1,585	25.89	24.7		98.96
19	2,479	70.61	43.2		102.91
20	2,843	28.22	15.0		104.03
21	4,095	22.94	8.5		105.90
22	5,050	47.18	14.2		107.12
23	8,110	10.64	2.0		110.72
24	10,380	75.00	10.9	Upper Marker	113.00
25	16,080	0.00	0.0		118.73

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad


Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : lib patc inhib 1d 2 I14

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	17,442	0.00	0.0		120.10
27	19,561	0.00	0.0		122.23
28	20,570	0.00	0.0		123.24
29	21,327	0.00	0.0		124.00

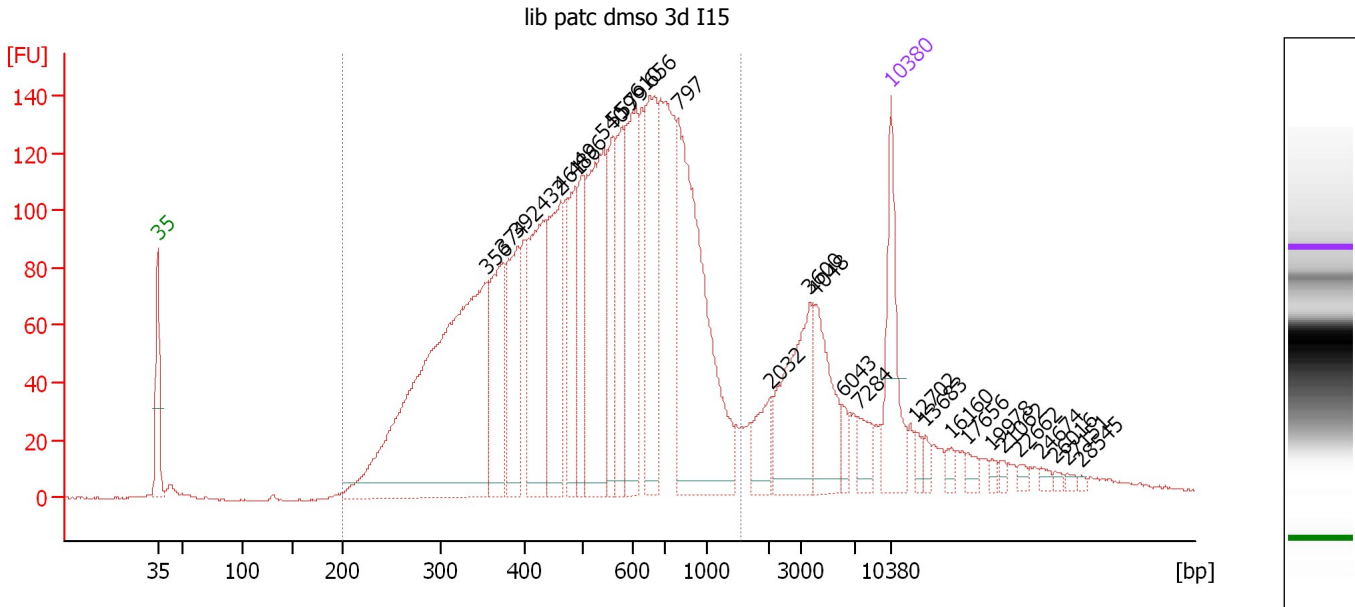
Region table for sample 4 : lib patc inhib 1d 2 I14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,199	456	2,209.39	3,220.6	8,621.4	 84	36.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : lib patc dms0 3d I15

Number of peaks found: 29 Corr. Area 1: 3,580.8
 Noise: 0.4

Peak table for sample 5 : lib patc dms0 3d I15

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	356	616.11	2,625.8		74.47
3	374	137.46	556.2		75.98
4	392	123.60	477.5		77.38
5	432	178.72	626.7		79.81
6	461	156.73	514.7		81.47
7	486	95.18	296.7		82.87
8	496	76.75	234.4		83.44
9	540	210.45	589.9		85.57
10	559	83.43	226.1		86.45
11	579	88.97	232.8		87.39
12	610	146.43	363.6		88.68
13	656	153.81	355.5		90.03
14	797	320.61	609.6		92.67
15	2,032	33.70	25.1		101.54
16	3,600	110.09	46.3		105.27
17	4,048	71.99	26.9		105.84
18	6,043	11.99	3.0		108.39
19	7,284	21.69	4.5		109.89
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,702	0.00	0.0		115.33
22	13,683	0.00	0.0		116.32
23	16,160	0.00	0.0		118.81
24	17,656	0.00	0.0		120.31
25	19,978	0.00	0.0		122.64

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : lib patc dms0 3d I15

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	21,062	0.00	0.0		123.73
27	22,662	0.00	0.0		125.34
28	24,674	0.00	0.0		127.36
29	26,016	0.00	0.0		128.71
30	27,151	0.00	0.0		129.85
31	28,545	0.00	0.0		131.25

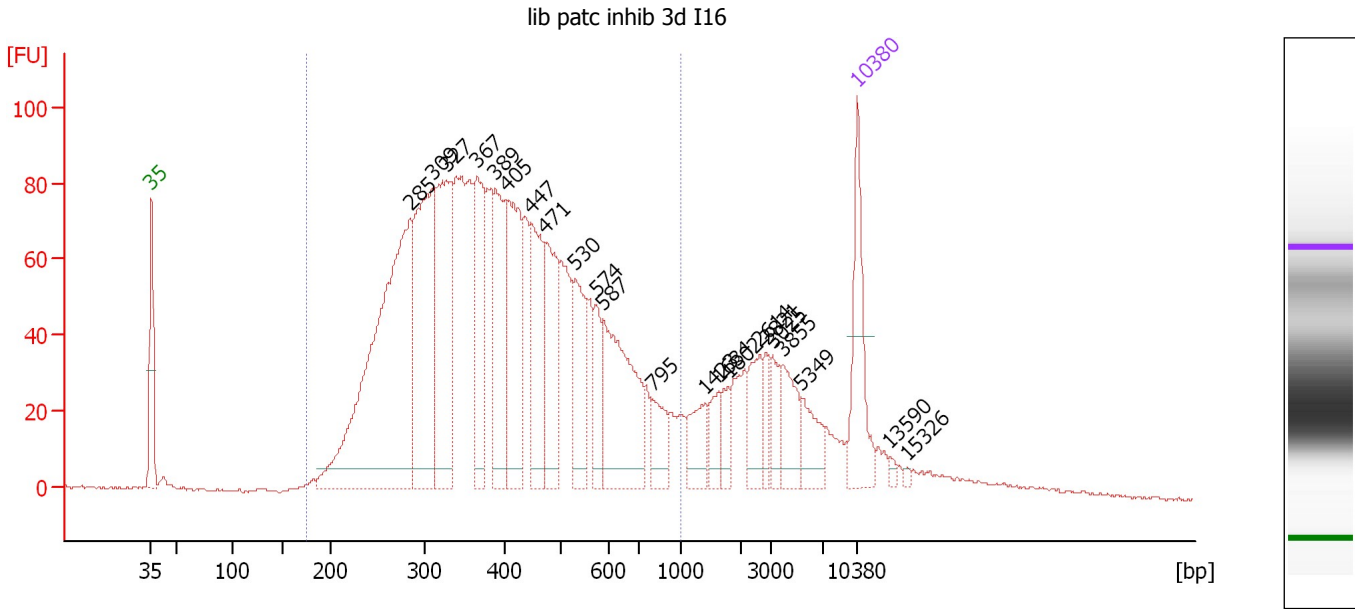
Region table for sample 5 : lib patc dms0 3d I15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,555	556	2,816.80	3,580.8	9,460.4	 84	40.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : lib patc inhib 3d I16

Number of peaks found: 22 Corr. Area 1: 2,487.2
 Noise: 0.5

Peak table for sample 6 : lib patc inhib 3d I16

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	285	557.98	2,964.2		68.69
3	309	284.40	1,393.3		70.81
4	327	234.08	1,083.7		72.24
5	367	138.54	572.5		75.36
6	389	132.18	515.3		77.10
7	405	160.95	602.6		78.26
8	447	122.72	416.3		80.64
9	471	120.63	388.1		82.02
10	530	91.72	262.1		85.08
11	574	45.21	119.4		87.15
12	587	164.91	425.4		87.78
13	795	38.53	73.5		92.65
14	1,423	35.73	38.1		97.98
15	1,634	25.35	23.5		99.25
16	1,802	18.87	15.9		100.26
17	2,614	37.82	21.9		103.32
18	2,821	18.36	9.9		103.96
19	3,025	24.06	12.1		104.54
20	3,855	44.82	17.6		105.60
21	5,349	33.77	9.6		107.50
22	10,380	75.00	10.9	Upper Marker	113.00
23	13,590	0.00	0.0		116.23
24	15,326	0.00	0.0		117.97

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

... Region table for sample 6 :

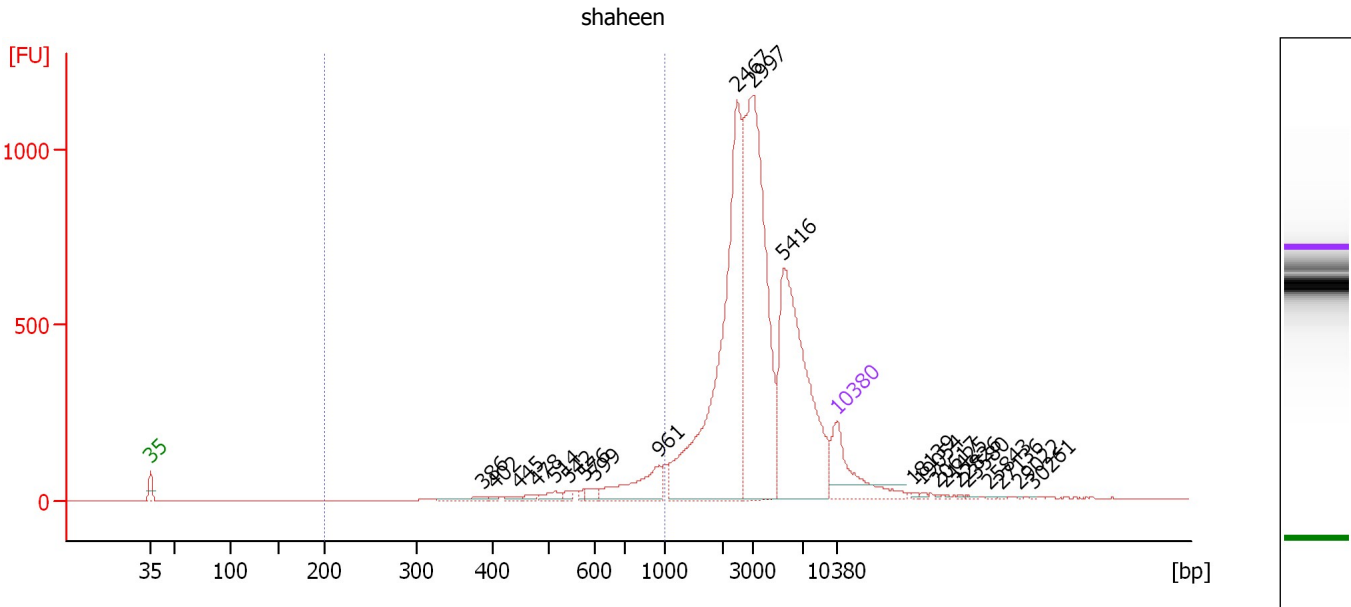
lib patc inhib 3d I16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
175	1,000	420	2,786.27	2,487.2	11,730.0	 83	35.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
 Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : shaheen

Number of peaks found: 22 Corr. Area 1: 659.9
 Noise: 0.3

Peak table for sample 7 : shaheen


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	386	10.16	39.9		76.89
3	402	3.16	11.9		78.14
4	445	5.61	19.1		80.57
5	478	5.48	17.4		82.41
6	514	12.27	36.2		84.31
7	542	5.47	15.3		85.66
8	576	4.53	11.9		87.23
9	599	9.08	23.0		88.31
10	961	65.79	103.7		94.92
11	2,467	431.33	264.9		102.88
12	2,997	450.52	227.8		104.50
13	5,416	319.88	89.5		107.59
14	10,380	75.00	10.9	Upper Marker	113.00
15	18,139	0.00	0.0		120.80
16	19,054	0.00	0.0		121.72
17	20,617	0.00	0.0		123.29
18	21,425	0.00	0.0		124.10
19	22,826	0.00	0.0		125.51
20	23,580	0.00	0.0		126.26
21	25,843	0.00	0.0		128.54
22	27,136	0.00	0.0		129.84
23	29,022	0.00	0.0		131.73
24	30,261	0.00	0.0		132.98

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Electropherogram Summary Continued ...

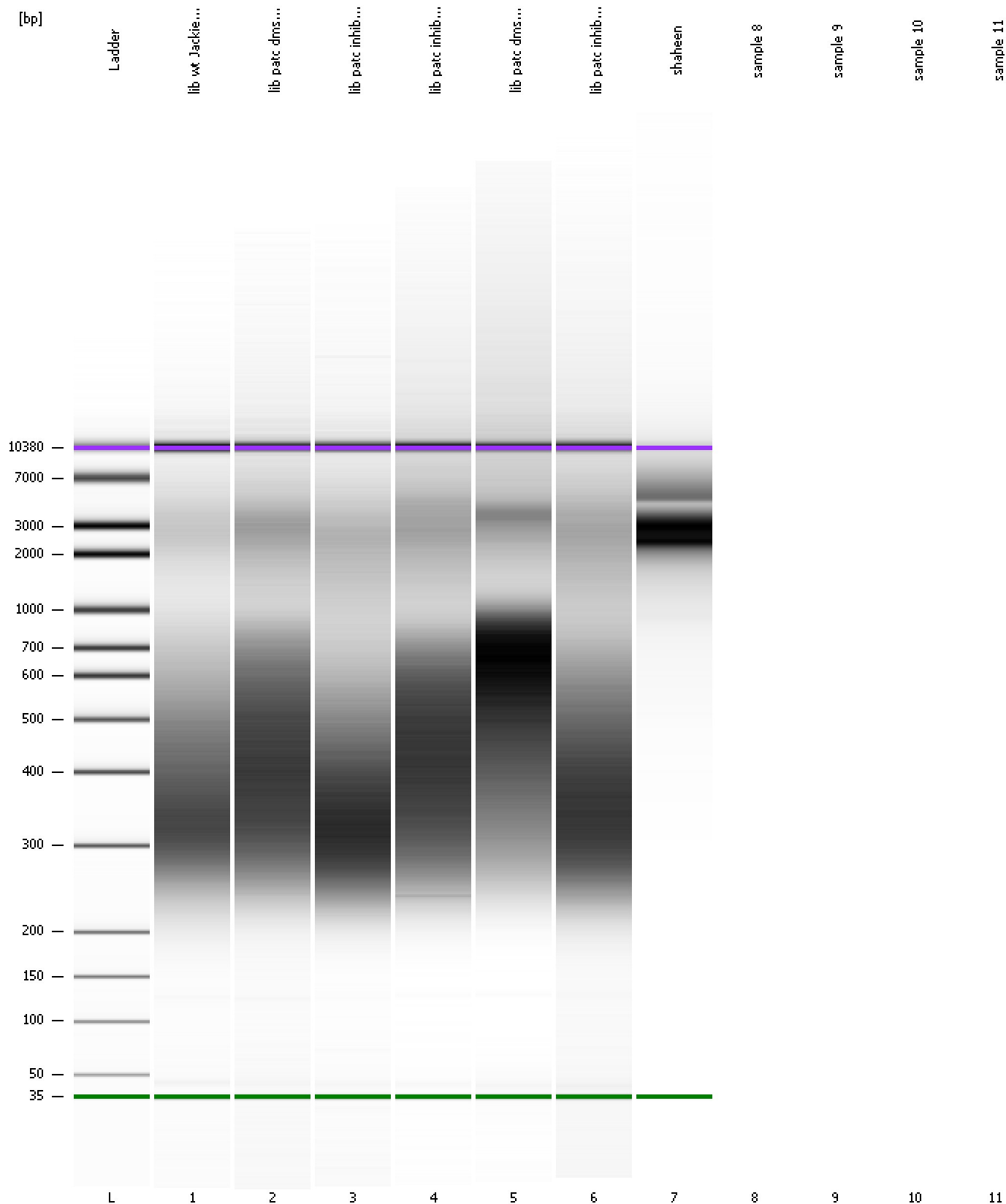
... Region table for sample 7 : shaheen

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	697	128.54	659.9	312.2	 8	26.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-24\2018-05-24_003.xad

Created: 5/24/2018 3:44:52 PM
Modified: 5/24/2018 4:14:45 PM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.