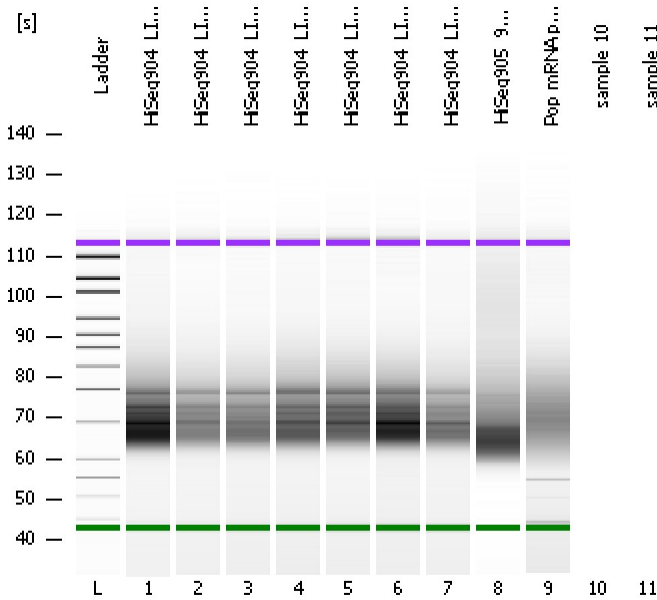


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
Modified: 4/18/2017 6:06:34 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

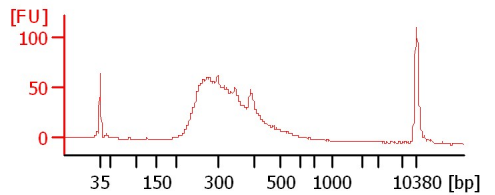
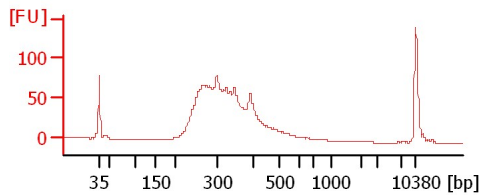
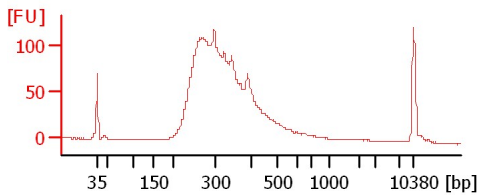
Chip Information:

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

HiSeq904_LIB-12 (1:10)

HiSeq904_LIB-13 (1:10)

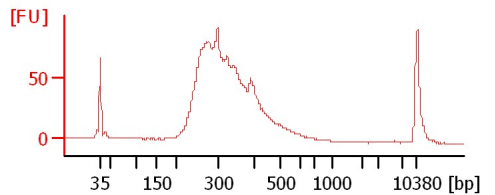
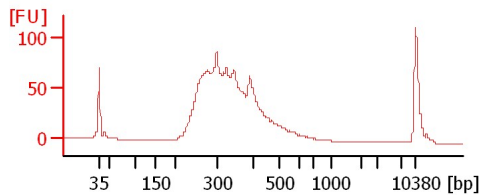
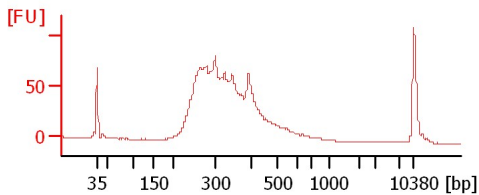
HiSeq904_LIB-14 (1:10)



HiSeq904_LIB-15 (1:10)

HiSeq904_LIB-16 (1:10)

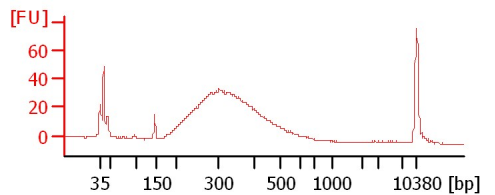
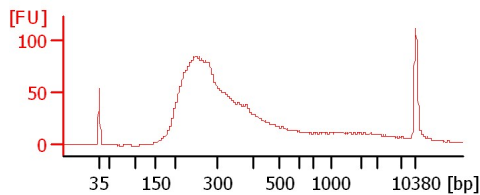
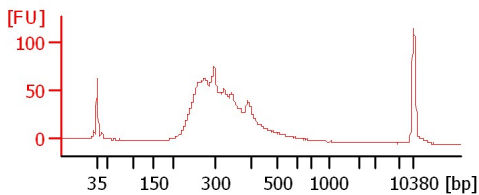
HiSeq904_LIB-17 (1:10)



HiSeq904_LIB-18 (1:10)

HiSeq905_917P 1:3

Pop mRNA pool 1



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq904_LIB-12 (1:10)		<input type="checkbox"/>	✓			
HiSeq904_LIB-13 (1:10)		<input type="checkbox"/>	✓			
HiSeq904_LIB-14 (1:10)		<input type="checkbox"/>	✓			
HiSeq904_LIB-15 (1:10)		<input type="checkbox"/>	✓			
HiSeq904_LIB-16 (1:10)		<input type="checkbox"/>	✓			
HiSeq904_LIB-17 (1:10)		<input type="checkbox"/>	✓			
HiSeq904_LIB-18 (1:10)		<input type="checkbox"/>	✓			
HiSeq905_917P 1:3		<input type="checkbox"/>	✓			
Pop mRNA pool 1		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

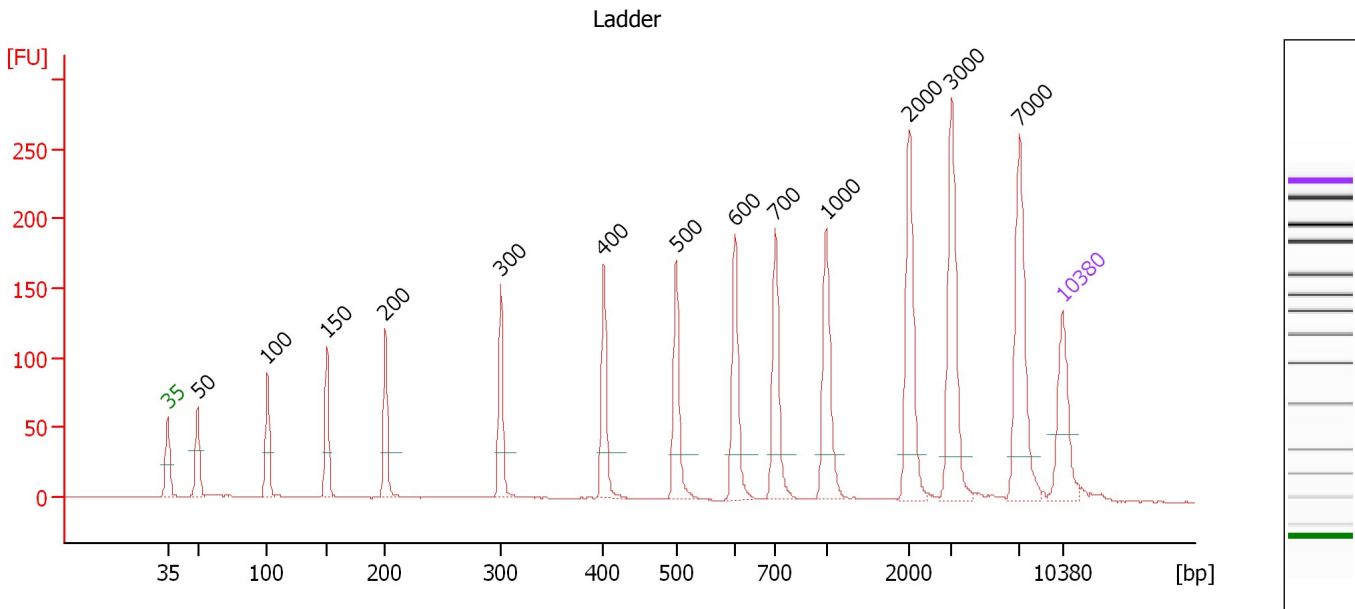
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

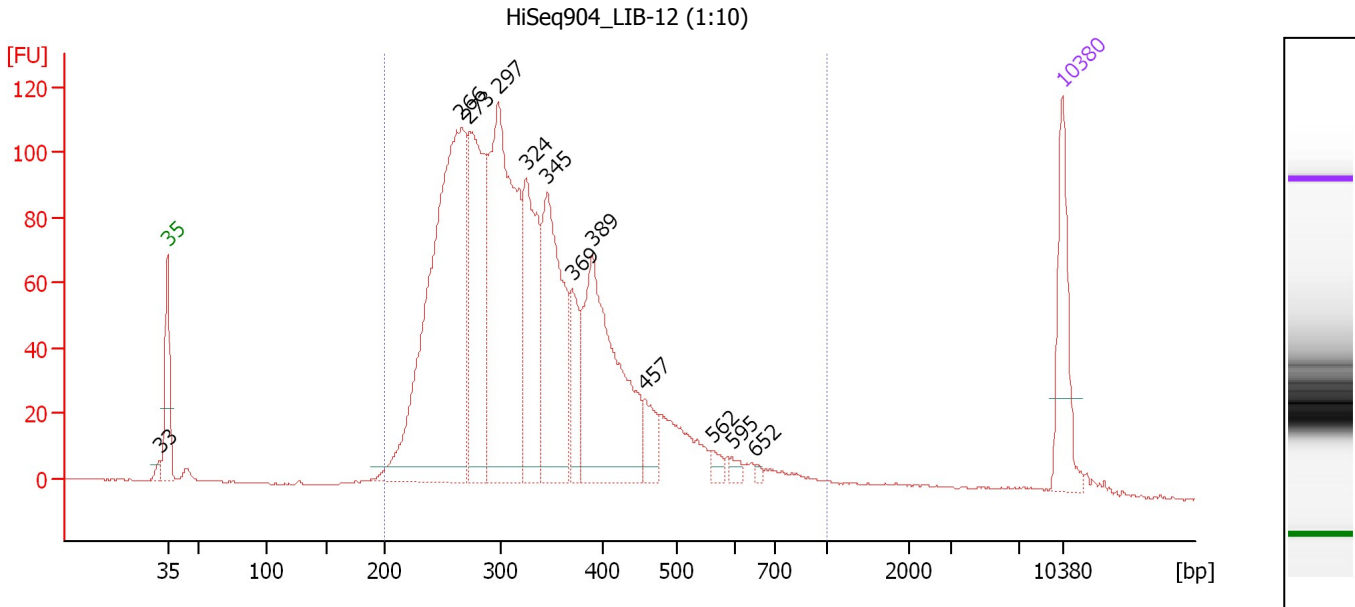
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.82
4	150	150.00	1,515.2	Ladder Peak	55.48
5	200	150.00	1,136.4	Ladder Peak	60.06
6	300	150.00	757.6	Ladder Peak	69.07
7	400	150.00	568.2	Ladder Peak	77.11
8	500	150.00	454.5	Ladder Peak	82.80
9	600	150.00	378.8	Ladder Peak	87.37
10	700	150.00	324.7	Ladder Peak	90.53
11	1,000	150.00	227.3	Ladder Peak	94.52
12	2,000	150.00	113.6	Ladder Peak	101.05
13	3,000	150.00	75.8	Ladder Peak	104.34
14	7,000	150.00	32.5	Ladder Peak	109.62
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HiSeq904 LIB-12 (1:10)

Number of peaks found: 12 Corr. Area 1: 2,253.5
 Noise: 0.2

Peak table for sample 1 : HiSeq904 LIB-12 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.37
2	35	125.00	5,411.3	Lower Marker	43.00
3	266	676.41	3,856.3		65.99
4	273	277.98	1,543.9		66.62
5	297	467.45	2,381.1		68.84
6	324	202.15	944.8		71.02
7	345	252.00	1,106.5		72.70
8	369	67.54	277.1		74.65
9	389	298.76	1,163.5		76.23
10	457	37.09	122.9		80.36
11	562	10.27	27.7		85.62
12	595	7.92	20.2		87.16
13	652	3.61	8.4		89.02
14	10,380	75.00	10.9	Upper Marker	113.00

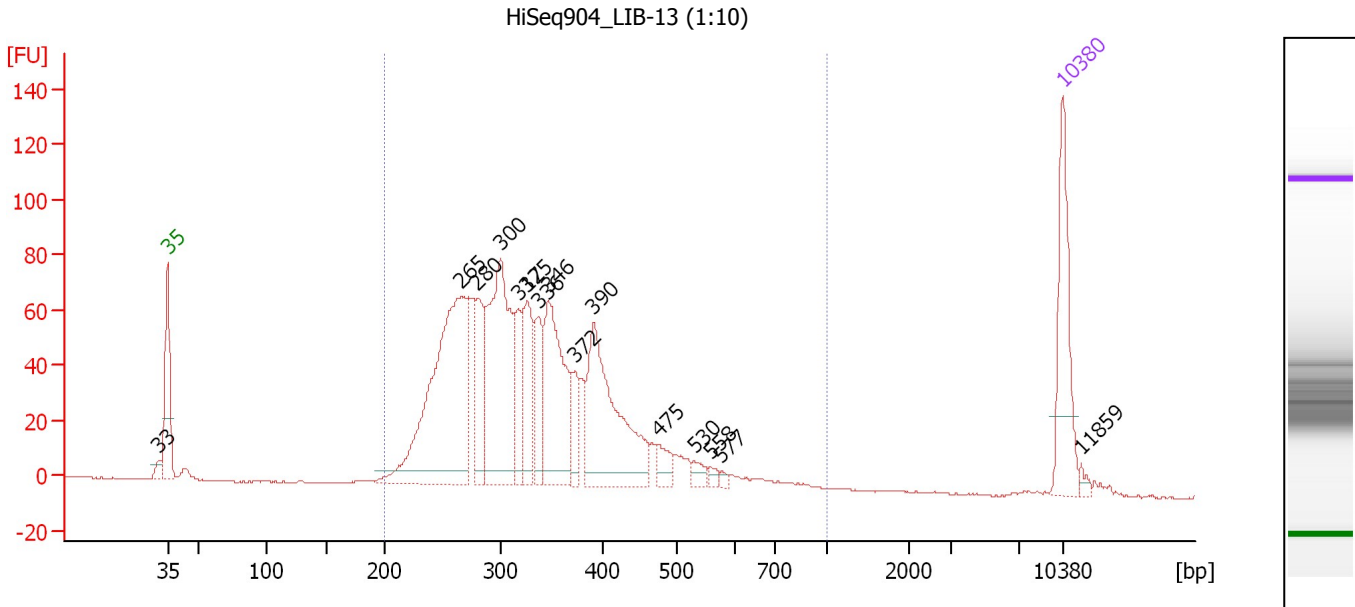
Region table for sample 1 : HiSeq904 LIB-12 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	341	2,253.5	12,315.3	2,533.19	96	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq904 LIB-13 (1:10)

Number of peaks found: 15 Corr. Area 1: 1,467.9
 Noise: 0.2

Peak table for sample 2 : HiSeq904 LIB-13 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.35
2	35	125.00	5,411.3	Lower Marker	43.00
3	265	349.25	1,994.2		65.95
4	280	70.02	379.3		67.24
5	300	227.37	1,149.6		69.04
6	317	56.70	270.7		70.47
7	325	76.28	355.1		71.12
8	336	55.11	248.2		72.00
9	346	151.65	663.8		72.78
10	372	32.04	130.5		74.86
11	390	184.29	715.3		76.34
12	475	19.86	63.4		81.37
13	530	10.69	30.5		84.19
14	558	5.48	14.9		85.43
15	577	3.79	10.0		86.31
16	10,380	75.00	10.9	Upper Marker	113.00
17	11,859	0.00	0.0		114.48

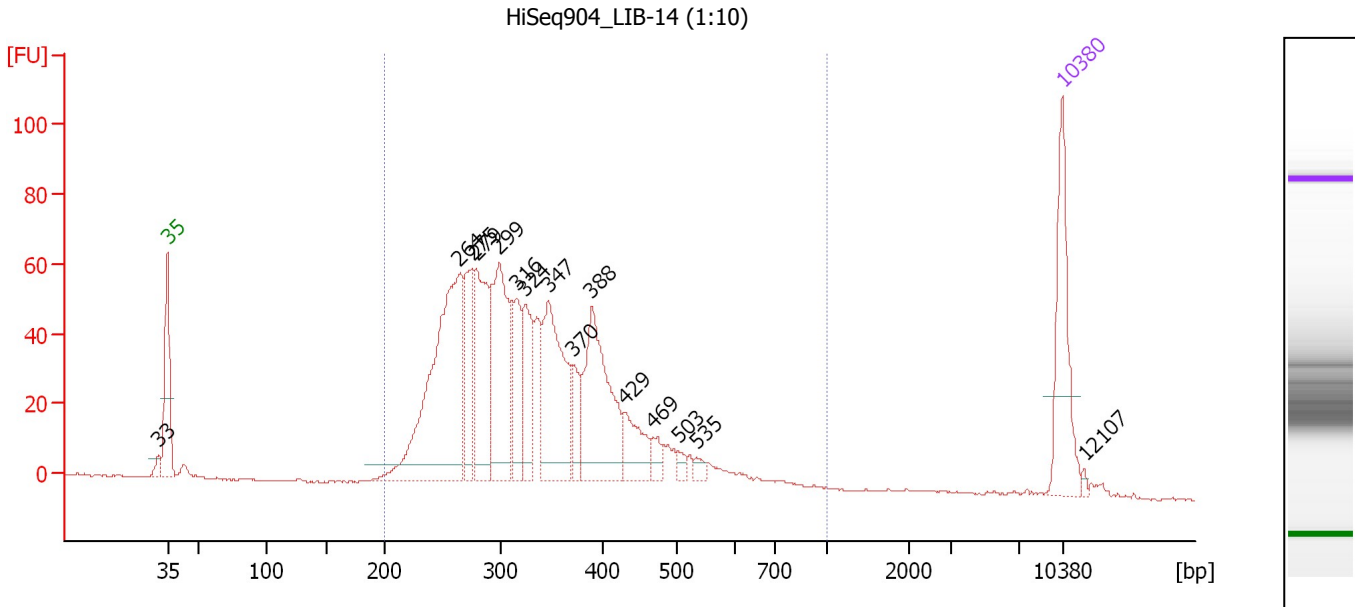
Region table for sample 2 : HiSeq904 LIB-13 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	341	1,467.9	6,687.4	1,392.29	97	27.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HiSeq904 LIB-14 (1:10)

Number of peaks found: 15 Corr. Area 1: 1,227.0
 Noise: 0.2

Peak table for sample 3 : HiSeq904 LIB-14 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.30
2	35	125.00	5,411.3	Lower Marker	43.00
3	264	324.55	1,861.9		65.84
4	275	77.43	426.7		66.81
5	279	133.23	724.6		67.14
6	299	160.75	815.3		68.96
7	316	59.78	286.6		70.36
8	324	66.78	312.8		70.96
9	347	147.58	644.9		72.83
10	370	28.26	115.6		74.74
11	388	153.47	598.6		76.18
12	429	43.56	153.9		78.75
13	469	13.46	43.5		81.03
14	503	7.23	21.8		82.94
15	535	7.01	19.9		84.38
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,107	0.00	0.0		114.72

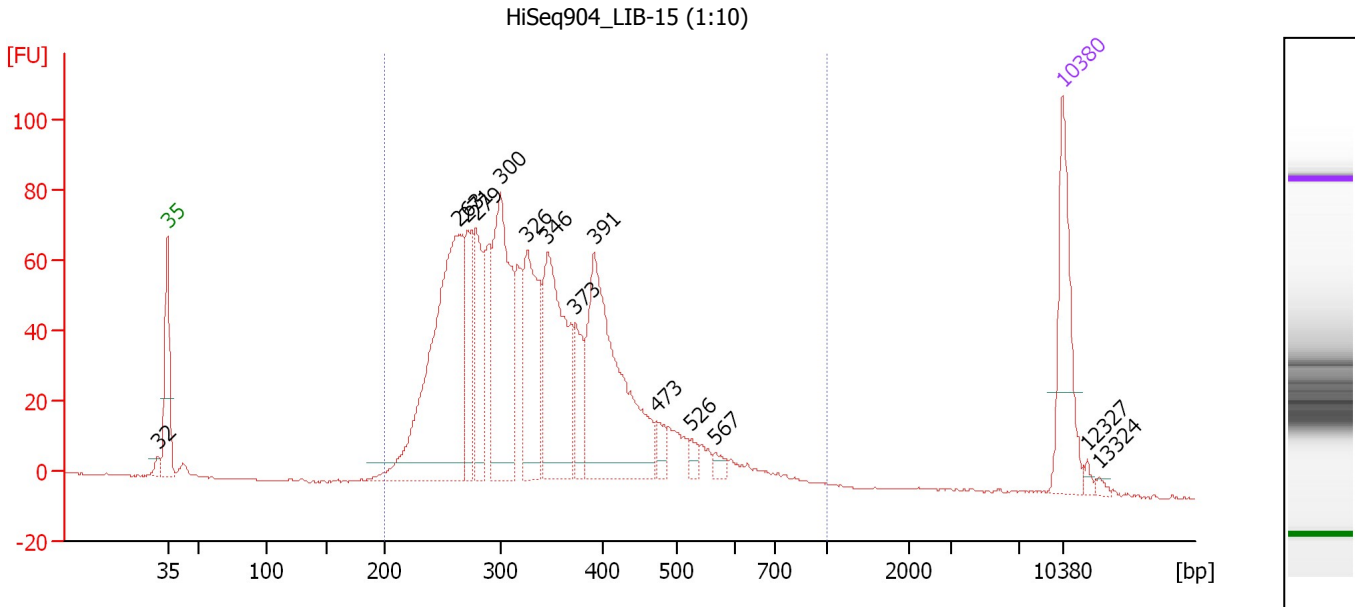
Region table for sample 3 : HiSeq904 LIB-14 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	339	1,227.0	6,727.8	1,393.93	98	26.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HiSeq904 LIB-15 (1:10)

Number of peaks found: 14 Corr. Area 1: 1,539.2
 Noise: 0.2

Peak table for sample 4 : HiSeq904 LIB-15 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.24
2	35	125.00	5,411.3	Lower Marker	43.00
3	263	368.21	2,118.8		65.76
4	271	81.41	454.8		66.48
5	279	93.94	510.9		67.14
6	300	201.92	1,019.3		69.08
7	326	134.45	624.7		71.17
8	346	181.89	797.5		72.74
9	373	46.39	188.6		74.92
10	391	248.44	962.7		76.39
11	473	15.28	48.9		81.27
12	526	9.05	26.1		83.98
13	567	7.72	20.6		85.87
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,327	0.00	0.0		114.94
16	13,324	0.00	0.0		115.94

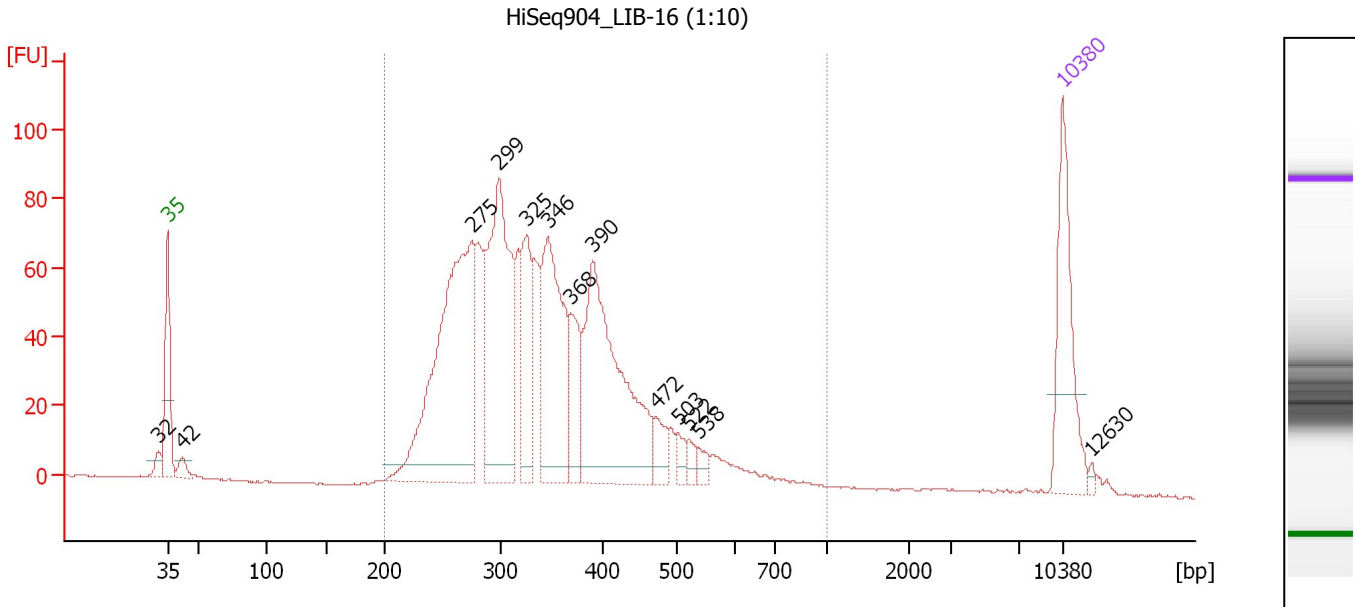
Region table for sample 4 : HiSeq904 LIB-15 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	347	1,539.2	7,776.4	1,635.08	98	28.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq904 LIB-16 (1:10)

Number of peaks found: 13 Corr. Area 1: 1,547.2
 Noise: 0.2

Peak table for sample 5 : HiSeq904 LIB-16 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.28
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	14.13	505.8		44.15
4	275	351.67	1,938.1		66.81
5	299	242.54	1,229.9		68.96
6	325	82.99	386.4		71.11
7	346	170.94	749.4		72.74
8	368	54.24	223.2		74.56
9	390	239.90	932.9		76.28
10	472	22.89	73.5		81.20
11	503	11.04	33.3		82.92
12	522	10.01	29.1		83.79
13	538	9.19	25.9		84.55
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,630	0.00	0.0		115.25

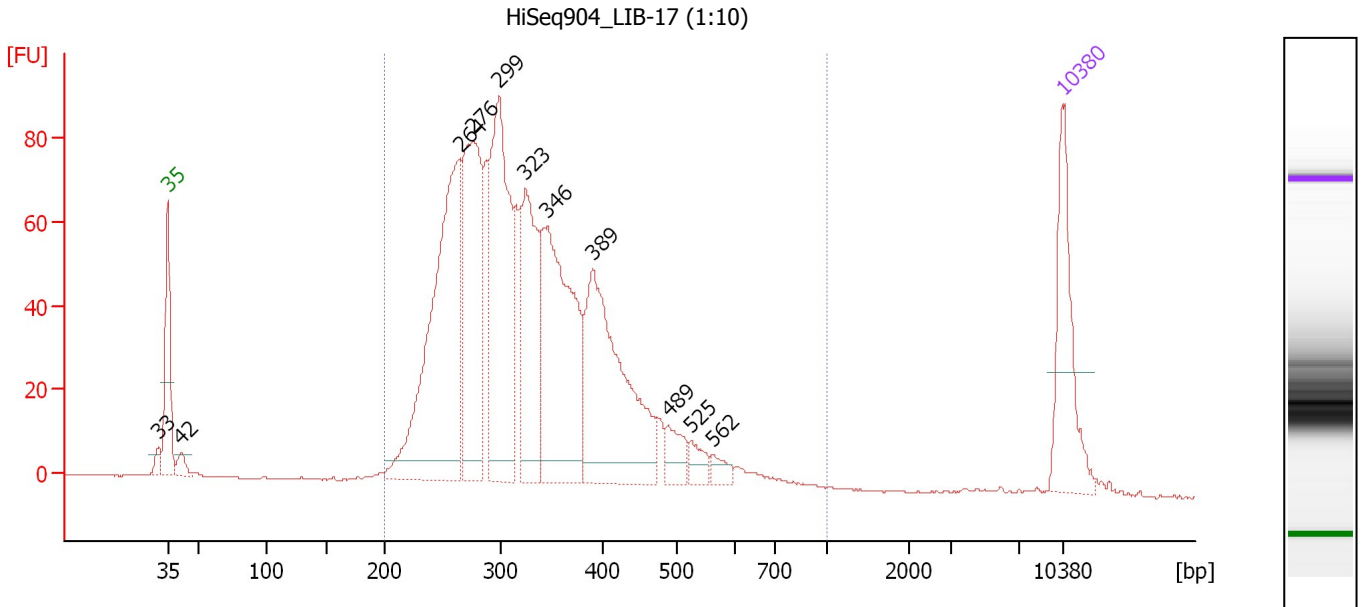
Region table for sample 5 : HiSeq904 LIB-16 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	349	1,547.2	6,686.7	1,424.31	97	26.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq904 LIB-17 (1:10)

Number of peaks found: 11 Corr. Area 1: 1,566.1
 Noise: 0.2

Peak table for sample 6 : HiSeq904 LIB-17 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.33
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	14.30	519.1		44.06
4	264	358.94	2,056.4		65.87
5	276	230.88	1,269.0		66.88
6	299	253.73	1,287.6		68.94
7	323	148.79	696.9		70.96
8	346	249.75	1,094.9		72.74
9	389	236.80	921.8		76.25
10	489	26.59	82.4		82.16
11	525	16.15	46.6		83.93
12	562	11.99	32.4		85.61
13	10,380	75.00	10.9	Upper Marker	113.00

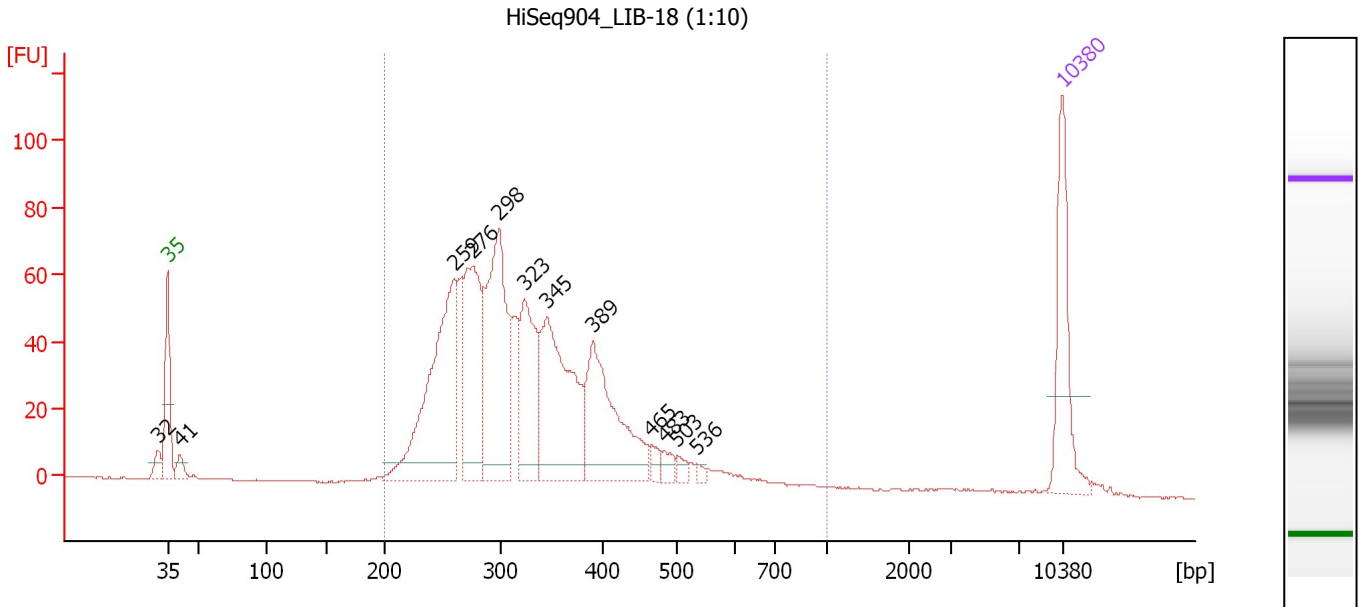
Region table for sample 6 : HiSeq904 LIB-17 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	337	1,566.1	8,249.7	1,703.00	97	26.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq904 LIB-18 (1:10)

Number of peaks found: 12 Corr. Area 1: 1,205.2
 Noise: 0.2

Peak table for sample 7 : HiSeq904 LIB-18 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.22
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	16.51	607.0		43.97
4	259	260.04	1,520.2		65.39
5	276	168.85	927.2		66.90
6	298	228.50	1,161.6		68.90
7	323	119.72	561.2		70.94
8	345	196.72	863.8		72.69
9	389	157.45	612.9		76.25
10	465	11.13	36.3		80.82
11	483	11.28	35.4		81.85
12	503	8.00	24.1		82.92
13	536	4.52	12.8		84.43
14	10,380	75.00	10.9	Upper Marker	113.00

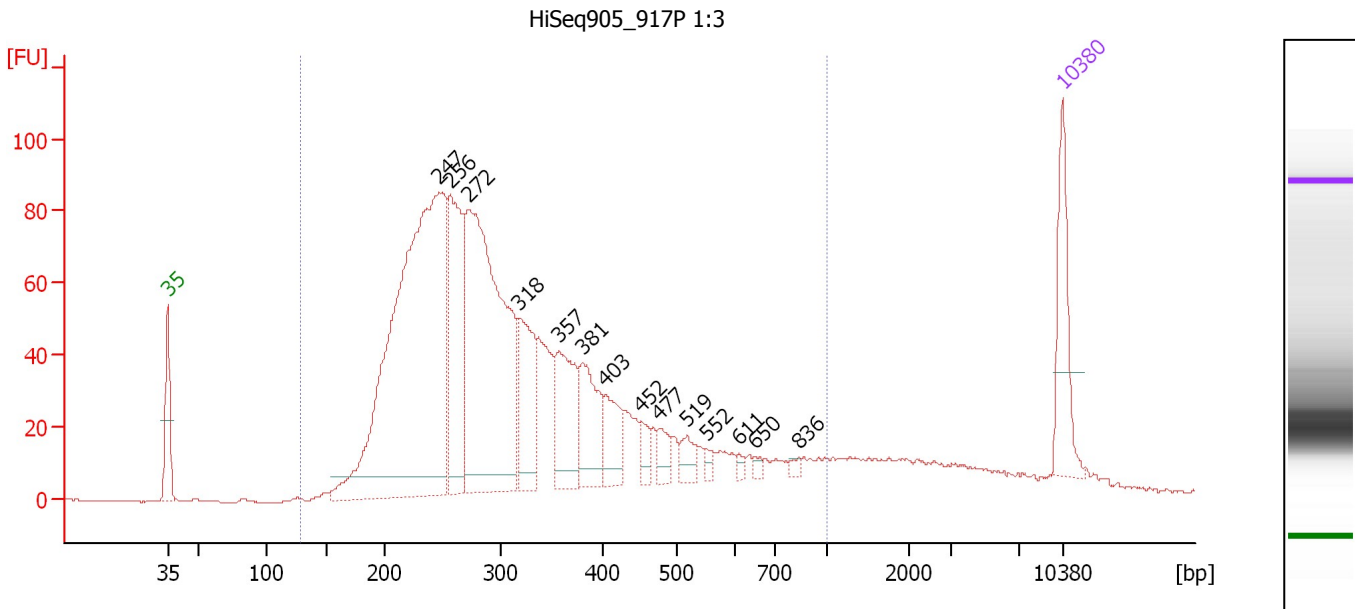
Region table for sample 7 : HiSeq904 LIB-18 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	335	1,205.2	6,538.9	1,340.41	97	27.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq905_917P 1:3

Number of peaks found: 14 Corr. Area 1: 1,912.7
 Noise: 0.2

Peak table for sample 8 : HiSeq905_917P 1:3

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	247	930.99	5,720.8		64.26
3	256	225.15	1,333.4		65.09
4	272	575.11	3,201.7		66.56
5	318	131.55	626.3		70.54
6	357	116.90	496.6		73.63
7	381	95.77	381.3		75.55
8	403	59.44	223.7		77.26
9	452	20.38	68.3		80.06
10	477	21.81	69.3		81.49
11	519	22.39	65.4		83.65
12	552	8.39	23.0		85.17
13	611	5.59	13.9		87.72
14	650	5.61	13.1		88.95
15	836	5.18	9.4		92.33
16	10,380	75.00	10.9	Upper Marker	113.00

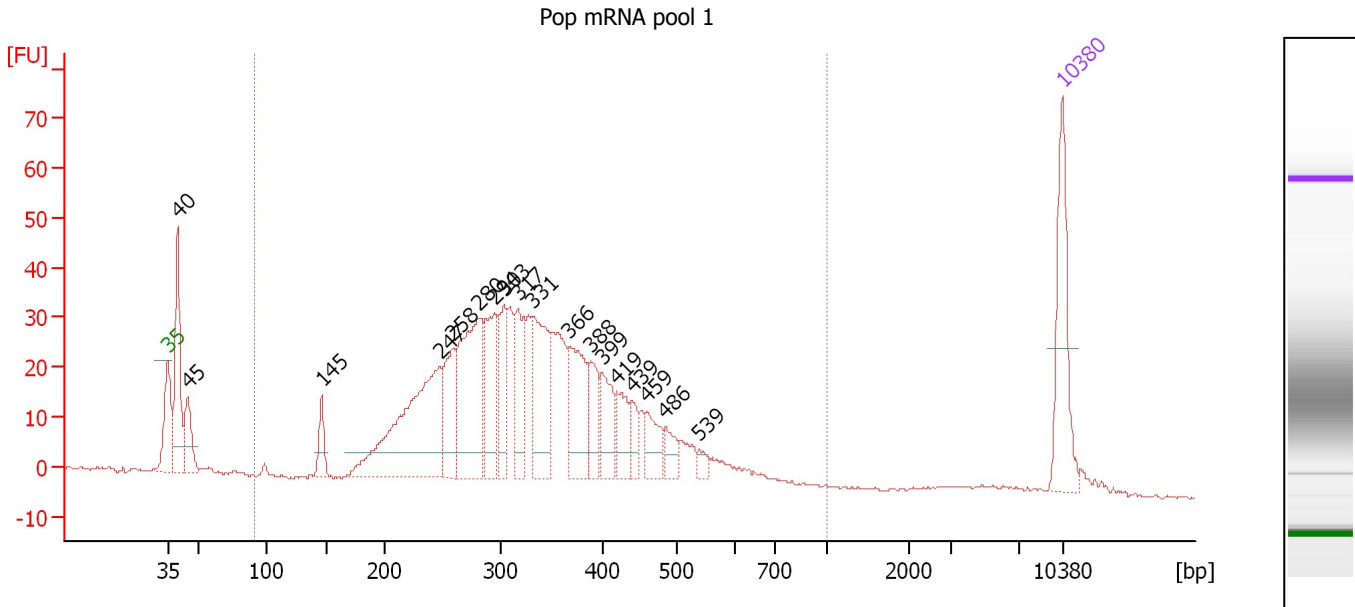
Region table for sample 8 : HiSeq905_917P 1:3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
127	1,000	336	1,912.7	14,375.7	2,697.24	91	42.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
 Modified: 4/18/2017 6:06:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Pop mRNA pool 1

Number of peaks found: 18 Corr. Area 1: 814.0
 Noise: 0.4

Peak table for sample 9 : Pop mRNA pool 1

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	40	135.30	5,128.6		43.78
3	45	52.29	1,762.8		44.56
4	145	31.45	327.8		55.05
5	247	250.62	1,535.7		64.32
6	258	77.48	455.8		65.24
7	280	172.14	930.6		67.29
8	294	80.94	416.7		68.56
9	303	56.61	282.8		69.34
10	317	73.61	352.2		70.41
11	331	111.70	510.9		71.59
12	366	86.47	357.5		74.41
13	388	45.05	176.1		76.12
14	399	45.77	174.0		77.00
15	419	34.80	125.7		78.22
16	439	21.84	75.3		79.34
17	459	32.89	108.6		80.46
18	486	21.25	66.3		81.98
19	539	9.29	26.1		84.56
20	10,380	75.00	10.9	Upper Marker	113.00

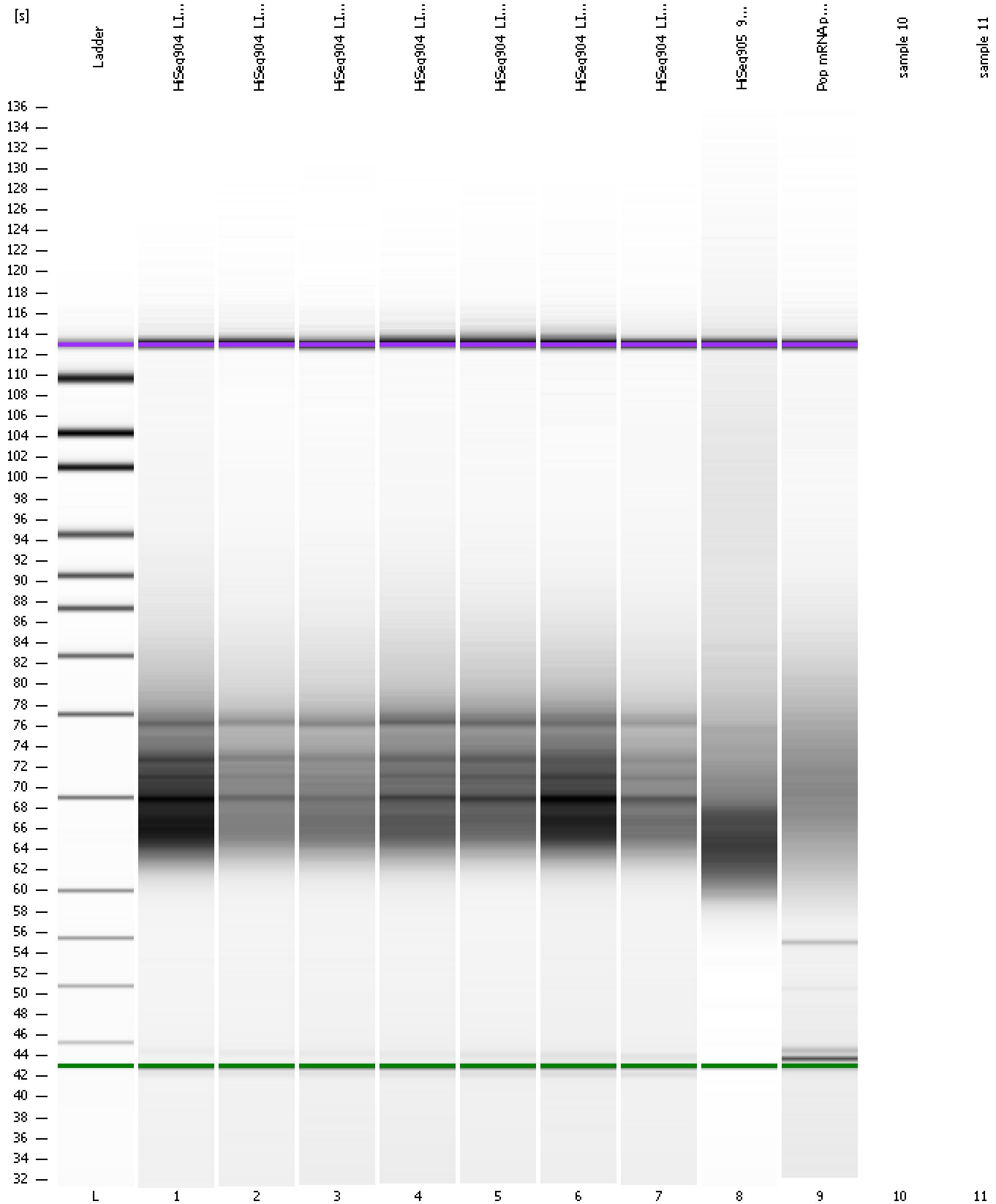
Region table for sample 9 : Pop mRNA pool 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
90	1,000	338	814.0	7,208.0	1,438.53	90	28.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
Modified: 4/18/2017 6:06:34 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-18\2017-04-18_003.xad

Created: 4/18/2017 5:24:03 PM
Modified: 4/18/2017 6:06:34 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.