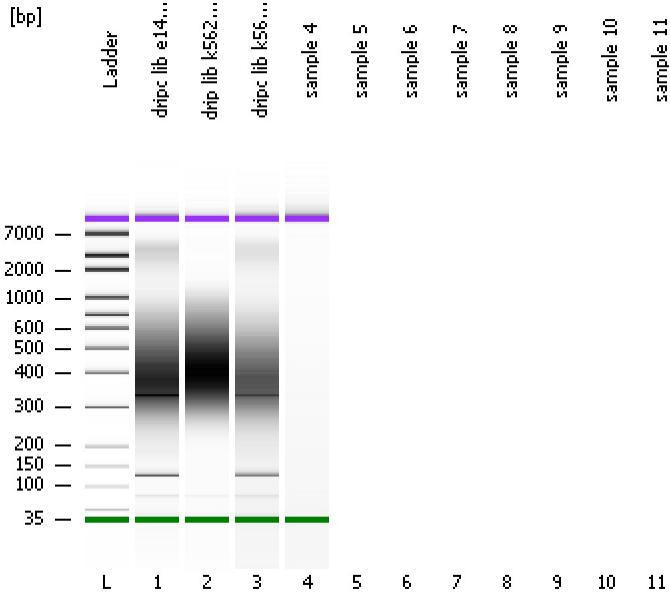


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
Modified: 11/26/2014 12:45:36 PM

Electrophoresis File Run Summary



Instrument Information:

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

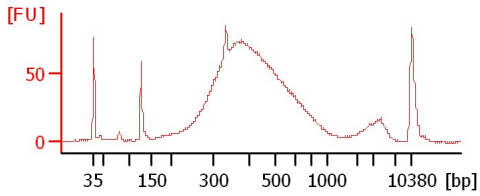
Assay Information:

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

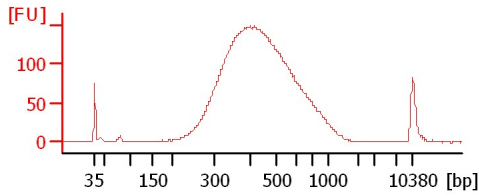
Chip Information:

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

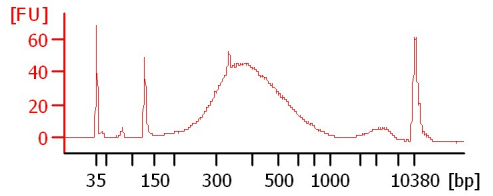
dripc lib e14 I21



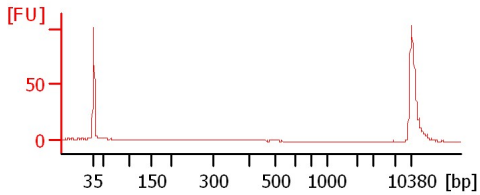
dripc lib k562 i22



dripc lib k562 i23



sample 4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
Modified: 11/26/2014 12:45:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
dripc lib e14 I21		<input type="checkbox"/>	✓			
drip lib k562 i22		<input type="checkbox"/>	✓			
dripc lib k562 i23		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>				
sample 6		<input type="checkbox"/>				
sample 7		<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:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
Modified: 11/26/2014 12:45:36 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

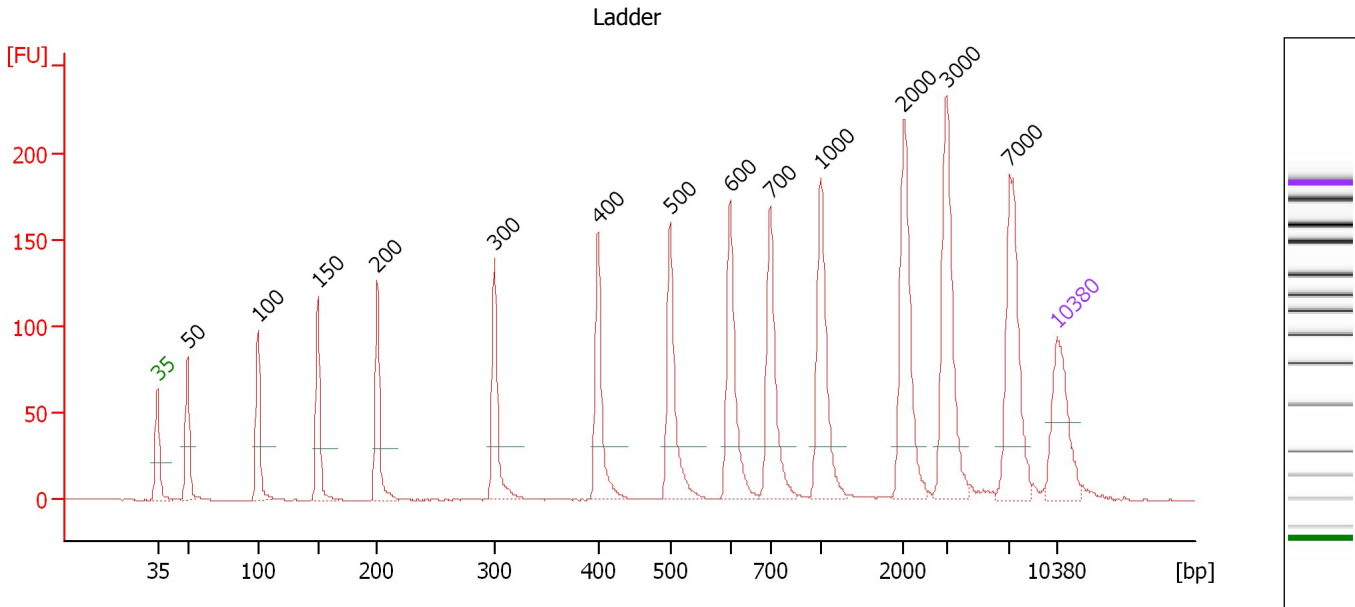
Ladder

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:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
 Modified: 11/26/2014 12:45:36 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

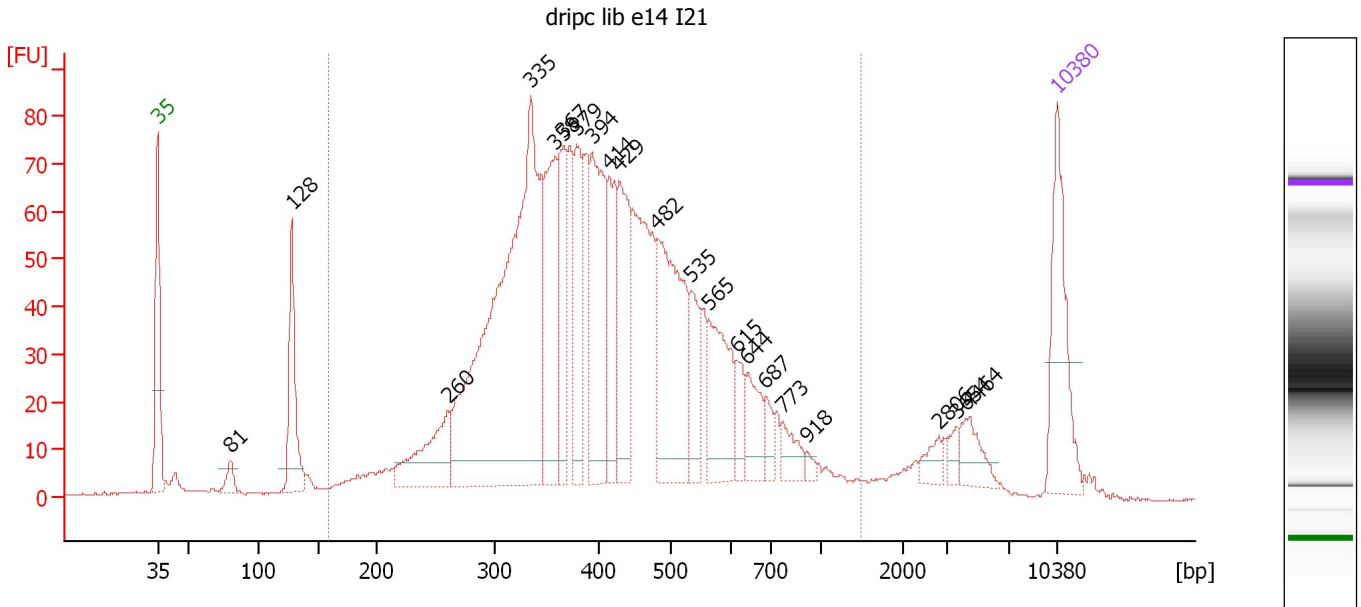
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	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
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
 Modified: 11/26/2014 12:45:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : dripc lib e14 I21

Number of peaks found: 21 Corr. Area 1: 1,849.7
 Noise: 0.2

Peak table for sample 1 : dripc lib e14 I21


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	16.18	304.4	
3	128	98.92	1,171.5	
4	260	82.63	481.5	
5	335	536.85	2,426.2	
6	358	145.21	614.1	
7	367	80.03	330.6	
8	379	82.79	330.9	
9	394	142.10	546.1	
10	414	79.30	289.9	
11	429	104.57	369.3	
12	482	172.13	540.6	
13	535	47.50	134.5	
14	565	84.43	226.2	
15	615	24.73	60.9	
16	644	36.14	85.0	
17	687	15.64	34.5	
18	773	20.64	40.4	
19	918	4.62	7.6	
20	2,806	11.38	6.1	
21	3,654	8.41	3.5	
22	4,464	22.17	7.5	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
Modified: 11/26/2014 12:45:36 PM

Electropherogram Summary Continued ...

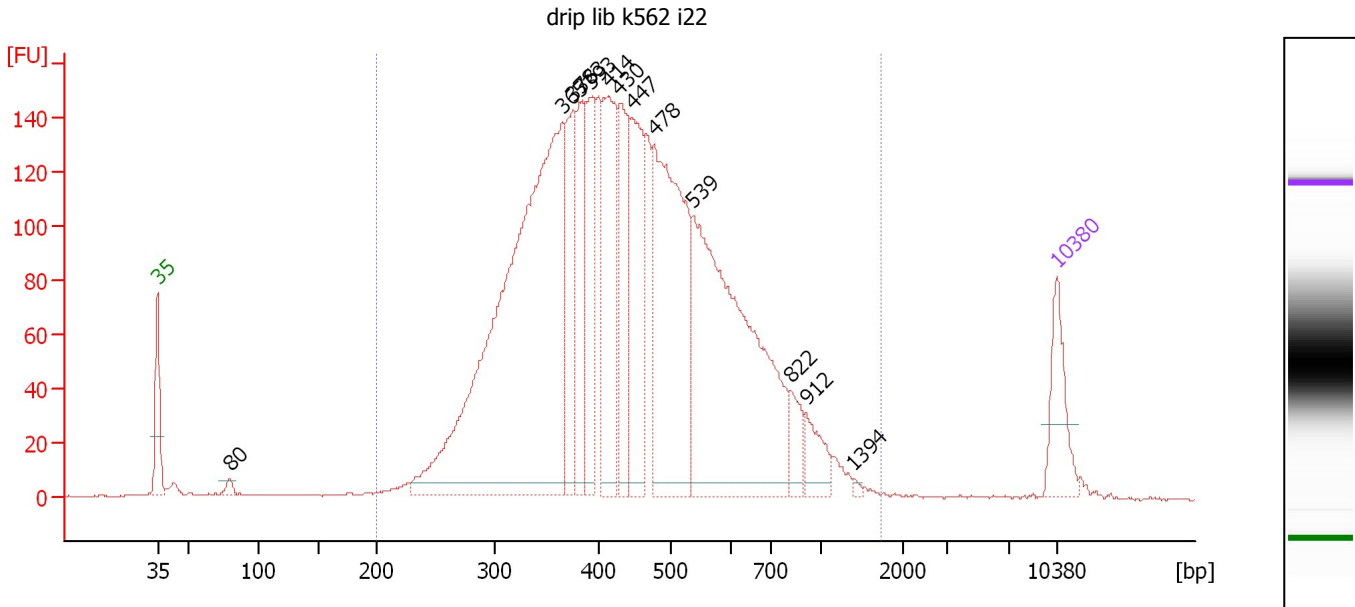
... Region table for sample 1 : dripc lib e14 I21

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
159	435	1,490	1,849.7	89	35.7	2,222.79	8,931.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
 Modified: 11/26/2014 12:45:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : drip lib k562 i22

Number of peaks found: 13 Corr. Area 1: 3,632.9
 Noise: 0.2

Peak table for sample 2 : drip lib k562 i22

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	13.50	255.6	
3	365	1,259.78	5,224.7	
4	376	187.14	753.9	
5	383	157.96	625.1	
6	393	177.60	684.6	
7	414	273.90	1,003.4	
8	430	195.65	689.5	
9	447	241.24	817.7	
10	478	518.62	1,644.0	
11	539	706.09	1,984.4	
12	822	44.63	82.3	
13	912	50.85	84.5	
14	1,394	4.01	4.4	
15	10,380	75.00	10.9	Upper Marker

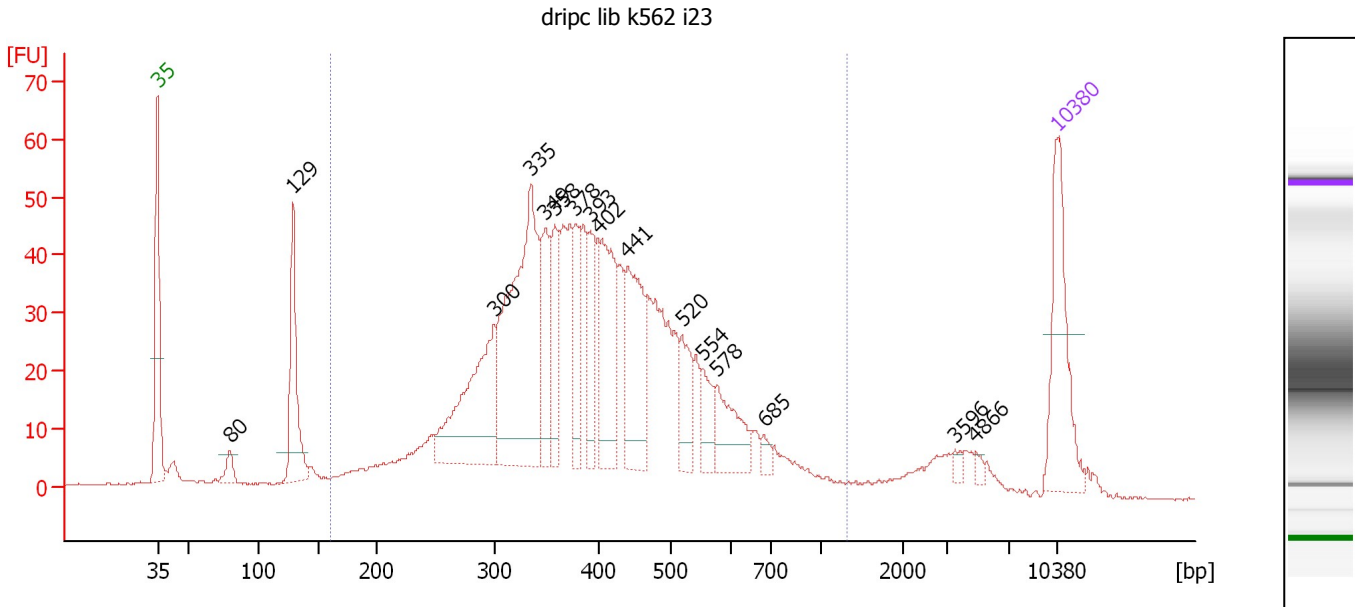
Region table for sample 2 : drip lib k562 i22

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	467	1,714	3,632.9	97	36.0	4,253.79	15,716.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
 Modified: 11/26/2014 12:45:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : dripc lib k562 i23

Number of peaks found: 16 Corr. Area 1: 1,122.2
 Noise: 0.2

Peak table for sample 3 : dripc lib k562 i23

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	16.35	309.5	
3	129	106.31	1,247.4	
4	300	155.56	786.5	
5	335	263.19	1,190.3	
6	349	63.85	277.0	
7	358	59.35	250.9	
8	378	50.30	201.4	
9	393	47.25	182.3	
10	402	106.65	402.2	
11	441	101.17	347.5	
12	520	41.18	120.0	
13	554	28.14	77.0	
14	578	48.82	127.9	
15	685	7.98	17.6	
16	3,596	4.67	2.0	
17	4,866	4.01	1.2	
18	10,380	75.00	10.9	Upper Marker

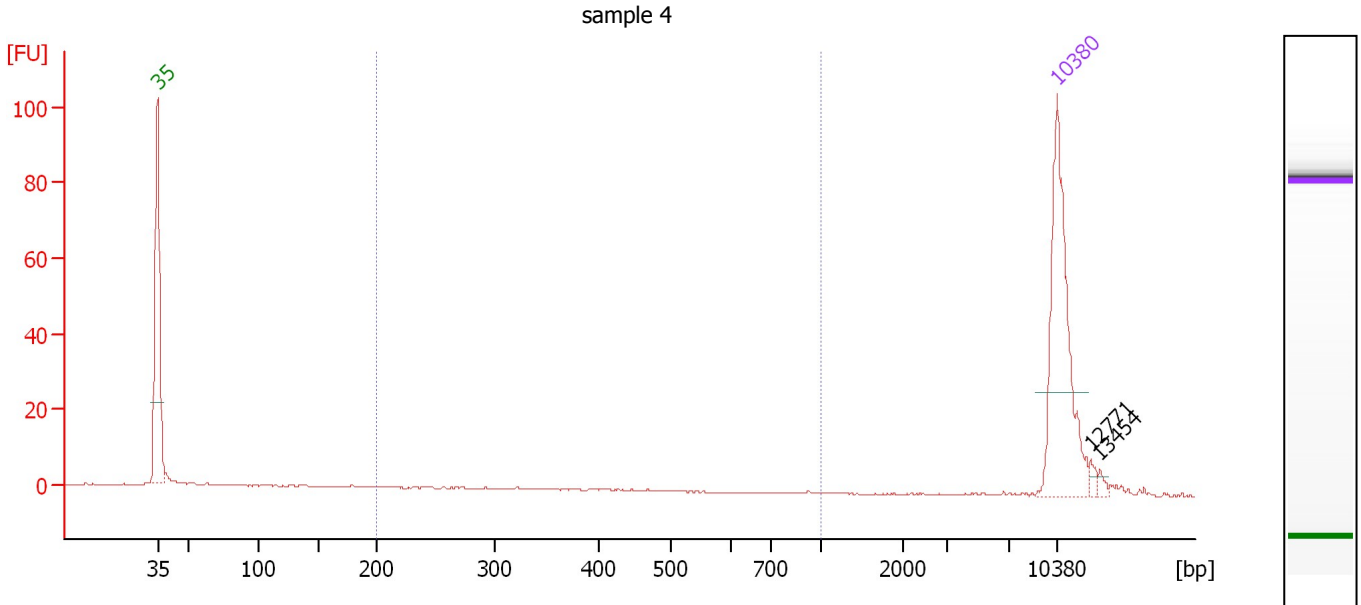
Region table for sample 3 : dripc lib k562 i23

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	415	1,315	1,122.2	87	32.3	1,684.13	6,983.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
 Modified: 11/26/2014 12:45:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 2 Corr. Area 1: 18.0
 Noise: 0.1

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,771	0.00	0.0	
4	13,454	0.00	0.0	

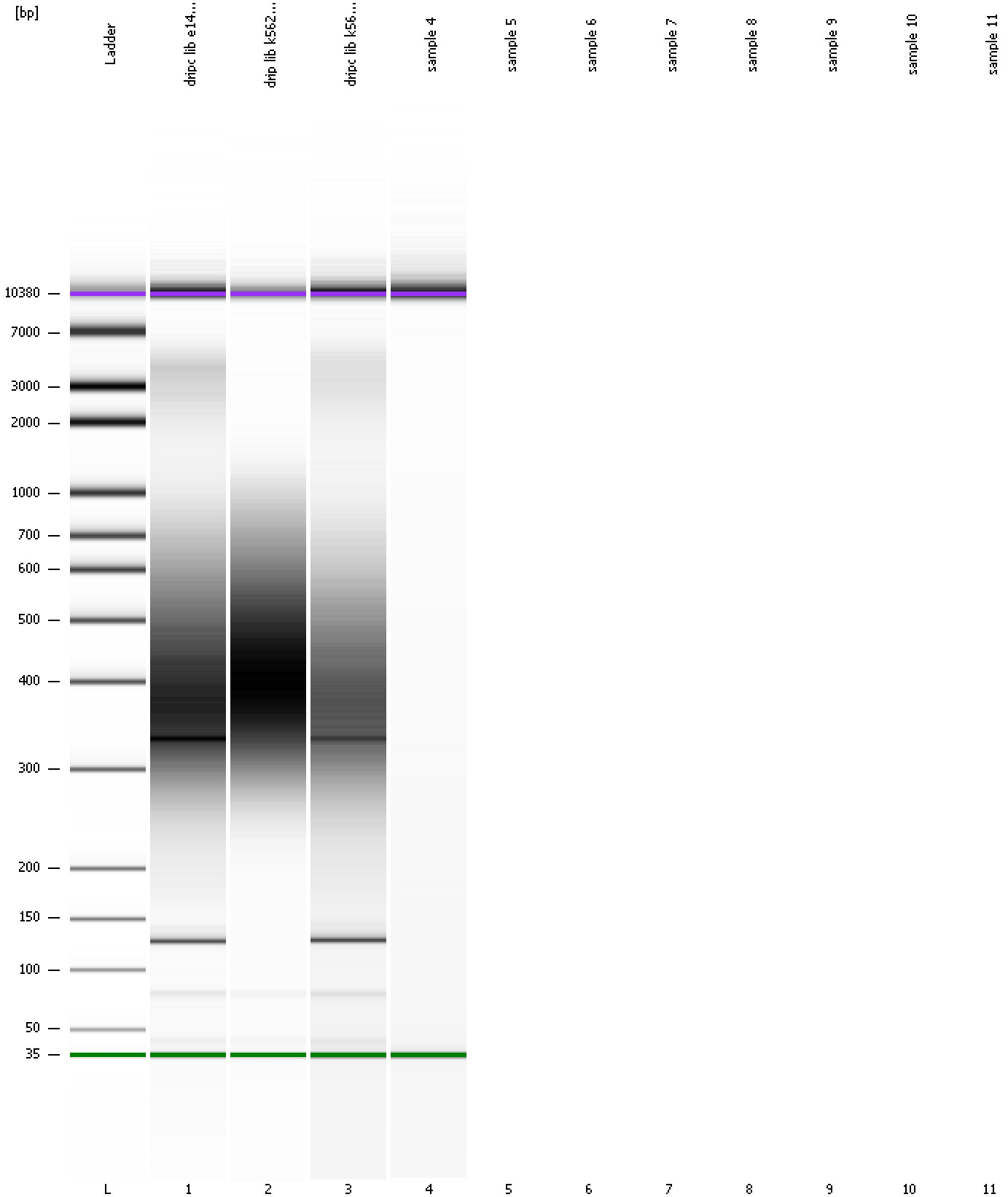
Region table for sample 4 : sample 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	403	1,000	18.0	25	44.1	14.86	68.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
Modified: 11/26/2014 12:45:36 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
Modified: 11/26/2014 12:45:36 PM

Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad

Created: 11/26/2014 12:24:16 PM
 Modified: 11/26/2014 12:45:36 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		11/26/2014 12:45:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-26\2014-11-26_002.xad)		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/26/2014 12:24:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1