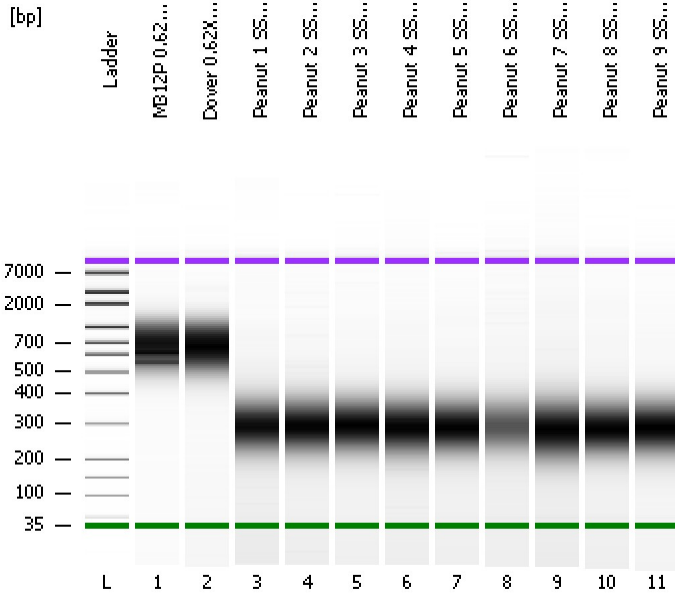


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
Modified: 6/7/2016 5:32:54 PM

Electrophoresis File Run Summary



Instrument Information:

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

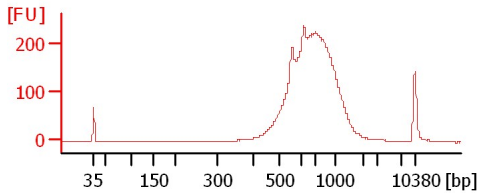
Assay Information:

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

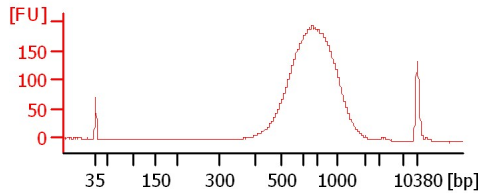
Chip Information:

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

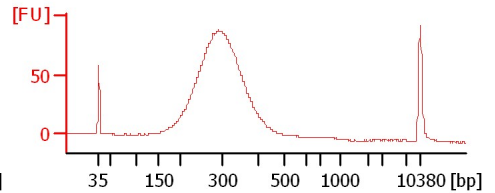
M312P 0.62X (1:8)



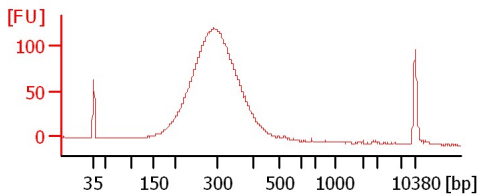
Dover 0.62X (1:4)



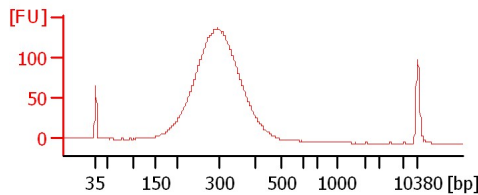
Peanut 1 SS Soni DNA
Peanut Exome Capture



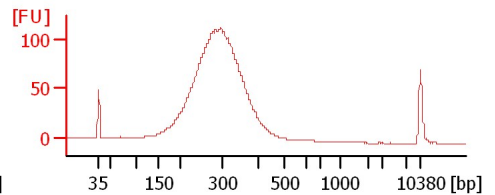
Peanut 2 SS Soni DNA
Peanut Exome Capture



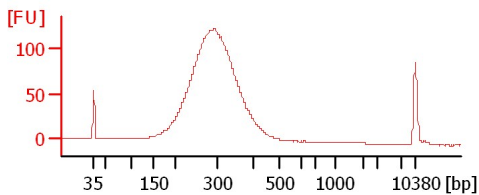
Peanut 3 SS Soni DNA
Peanut Exome Capture



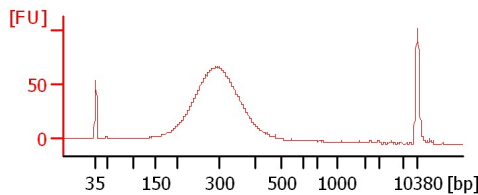
Peanut 4 SS Soni DNA
Peanut Exome Capture



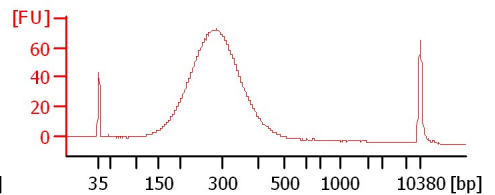
Peanut 5 SS Soni DNA
Peanut Exome Capture



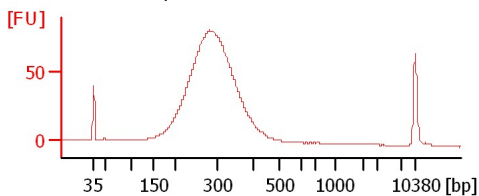
Peanut 6 SS Soni DNA
Peanut Exome Capture



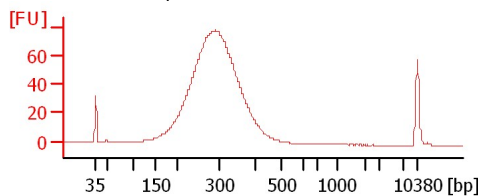
Peanut 7 SS Soni DNA
Peanut Exome Capture



Peanut 8 SS Soni DNA
Peanut Exome Capture



Peanut 9 SS Soni DNA
Peanut Exome Capture



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
Modified: 6/7/2016 5:32:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
M312P 0.62X (1:8)		<input type="checkbox"/>	✓			
Dover 0.62X (1:4)		<input type="checkbox"/>	✓			
Peanut 1 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 2 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 3 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 4 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 5 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 6 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 7 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 8 SS Soni DNA	Peanut Exome Capture	<input type="checkbox"/>	✓			
Peanut 9 SS Soni DNA	Peanut Exome Capture	<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\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
Modified: 6/7/2016 5:32:54 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

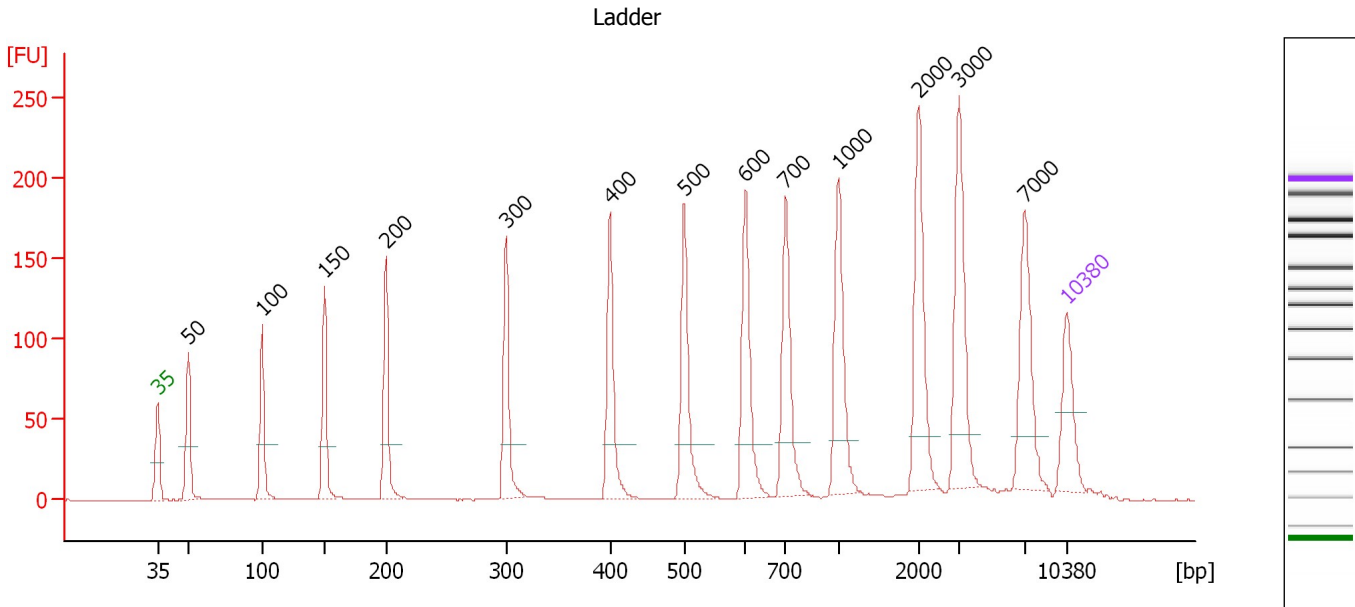
Ladder

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\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

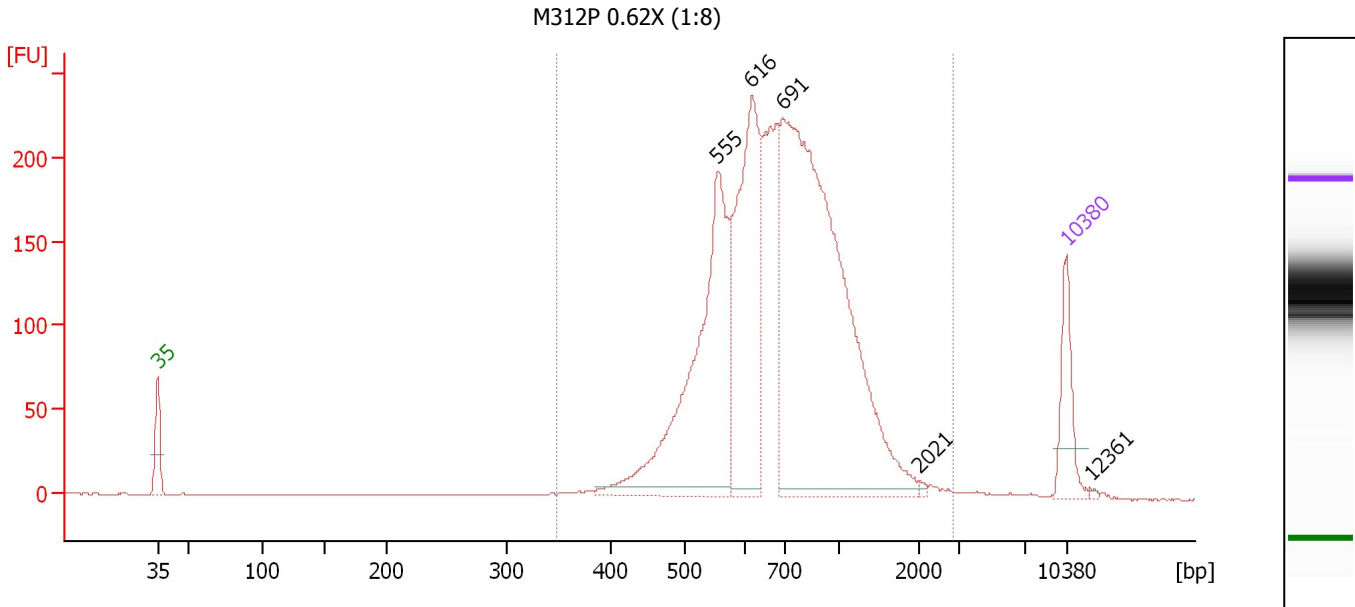
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	51.06
4	150	150.00	1,515.2	Ladder Peak	55.84
5	200	150.00	1,136.4	Ladder Peak	60.58
6	300	150.00	757.6	Ladder Peak	69.82
7	400	150.00	568.2	Ladder Peak	77.83
8	500	150.00	454.5	Ladder Peak	83.57
9	600	150.00	378.8	Ladder Peak	88.26
10	700	150.00	324.7	Ladder Peak	91.39
11	1,000	150.00	227.3	Ladder Peak	95.46
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : M312P 0.62X (1:8)

Number of peaks found: 5 Corr. Area 1: 2,988.3
 Noise: 0.2

Peak table for sample 1 : M312P 0.62X (1:8)

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	555	570.88	1,559.3		86.14
3	616	434.87	1,069.7		88.76
4	691	1,136.70	2,493.5		91.10
5	2,021	3.99	3.0		101.64
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,361	0.00	0.0		114.86

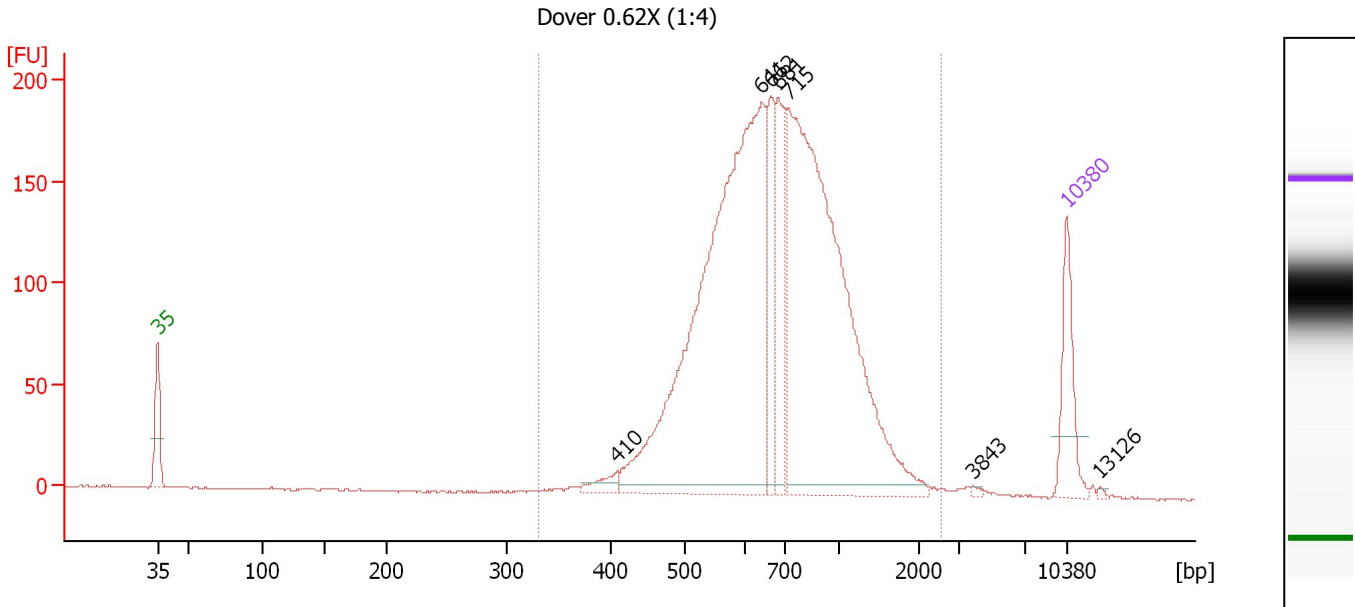
Region table for sample 1 : M312P 0.62X (1:8)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
350	2,850	767	2,988.3	5,134.8	2,314.08	99	37.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Dover 0.62X (1:4)

Number of peaks found: 7 Corr. Area 1: 2,648.1
 Noise: 0.3

Peak table for sample 2 : Dover 0.62X (1:4)

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	410	21.39	79.1		78.41
3	641	997.25	2,357.7		89.54
4	662	113.16	258.9		90.21
5	681	147.05	327.4		90.78
6	715	893.51	1,893.2		91.59
7	3,843	2.47	1.0		105.78
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,126	0.00	0.0		115.58

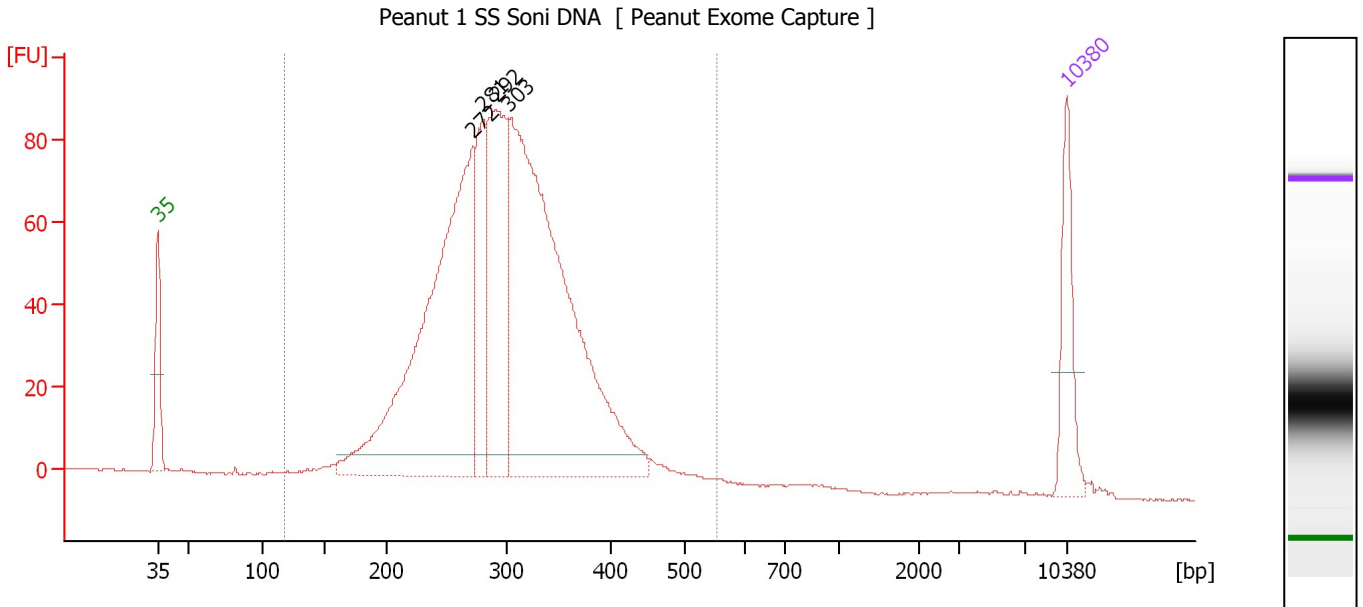
Region table for sample 2 : Dover 0.62X (1:4)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
332	2,581	751	2,648.1	4,875.6	2,148.16	99	36.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Peanut 1 SS Soni DNA

Number of peaks found: 4 Corr. Area 1: 1,519.1
 Noise: 0.2

Peak table for sample 3 : Peanut 1 SS Soni DNA

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	272	757.52	4,214.5		67.27
3	281	172.91	933.3		68.04
4	292	324.26	1,684.3		69.06
5	303	936.37	4,681.0		70.07
6	10,380	75.00	10.9	Upper Marker	113.00

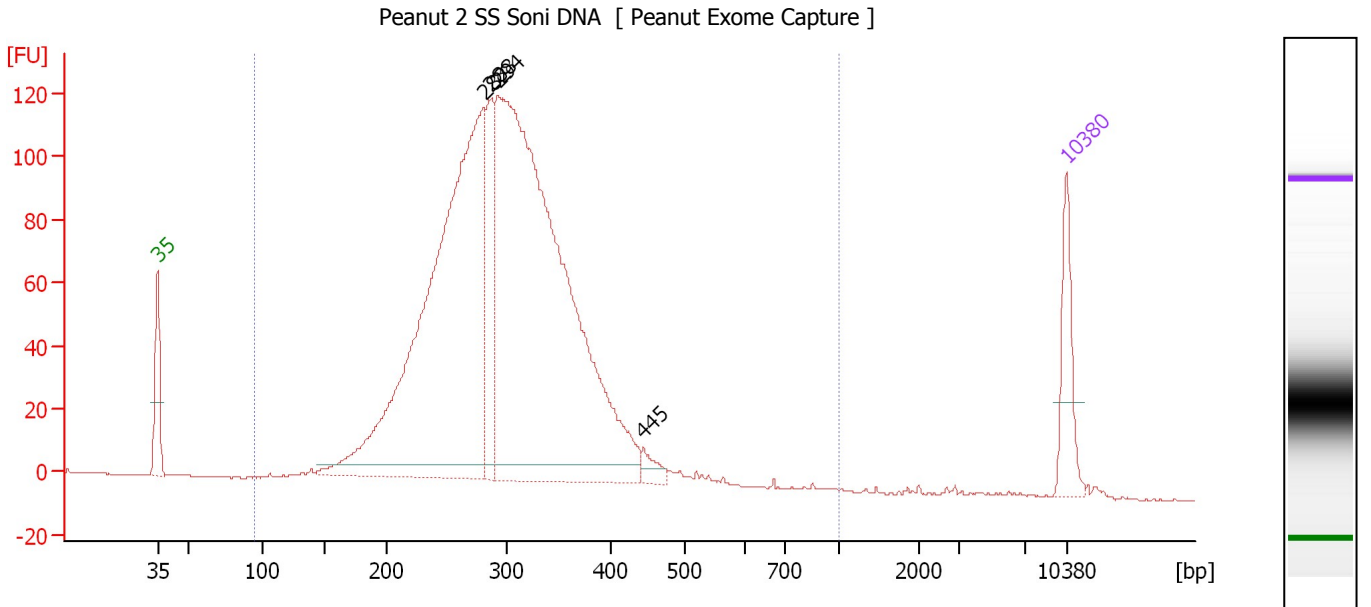
Region table for sample 3 : Peanut 1 SS Soni DNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
118	552	300	1,519.1	11,838.4	2,228.84	100	19.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Peanut 2 SS Soni DNA

Number of peaks found: 4 Corr. Area 1: 2,124.9
 Noise: 0.1

Peak table for sample 4 : Peanut 2 SS Soni DNA

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	282	1,280.37	6,886.6		68.13
3	288	208.94	1,101.0		68.67
4	294	1,621.38	8,358.3		69.26
5	445	24.65	84.0		80.41
6	10,380	75.00	10.9	Upper Marker	113.00

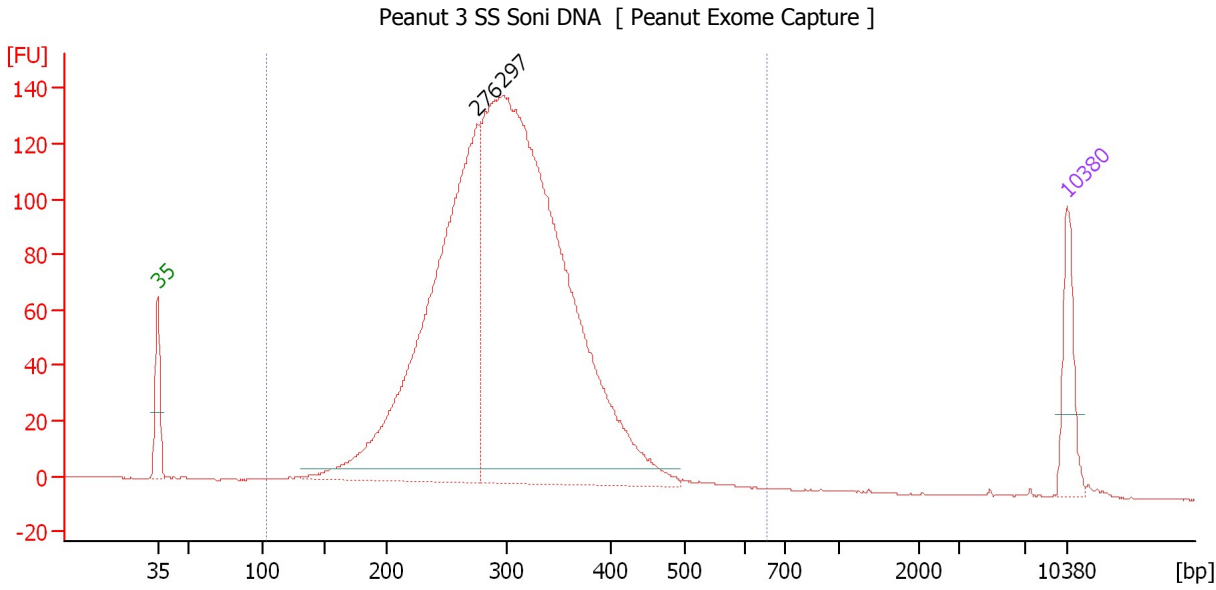
Region table for sample 4 : Peanut 2 SS Soni DNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
95	1,000	300	2,124.9	16,859.7	3,161.39	100	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Peanut 3 SS Soni DNA

Number of peaks found: 2 Corr. Area 1: 2,402.4
 Noise: 0.2

Peak table for sample 5 : Peanut 3 SS Soni DNA

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	276	1,198.48	6,574.0		67.63
3	297	2,031.64	10,375.8		69.52
4	10,380	75.00	10.9	Upper Marker	113.00

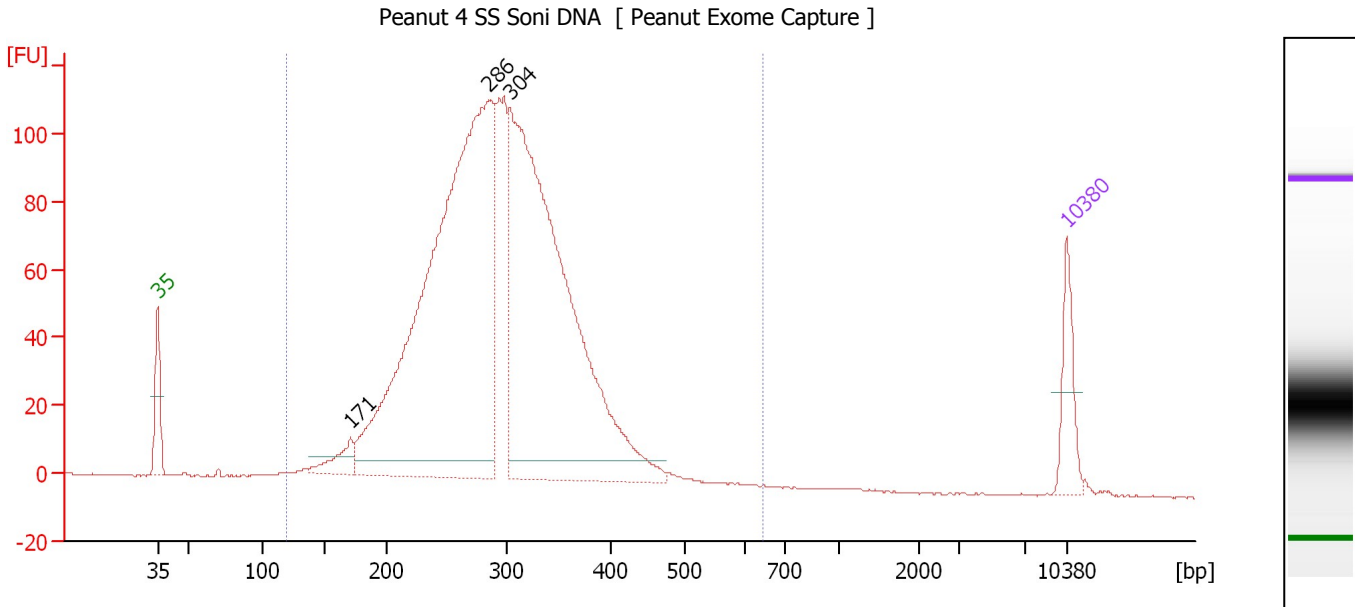
Region table for sample 5 : Peanut 3 SS Soni DNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
103	654	301	2,402.4	17,223.2	3,241.62	100	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Peanut 4 SS Soni DNA

Number of peaks found: 3 Corr. Area 1: 2,017.2
 Noise: 0.1

Peak table for sample 6 : Peanut 4 SS Soni DNA

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	171	68.24	603.1		57.88
3	286	1,849.01	9,800.0		68.52
4	304	1,531.62	7,637.6		70.13
5	10,380	75.00	10.9	Upper Marker	113.00

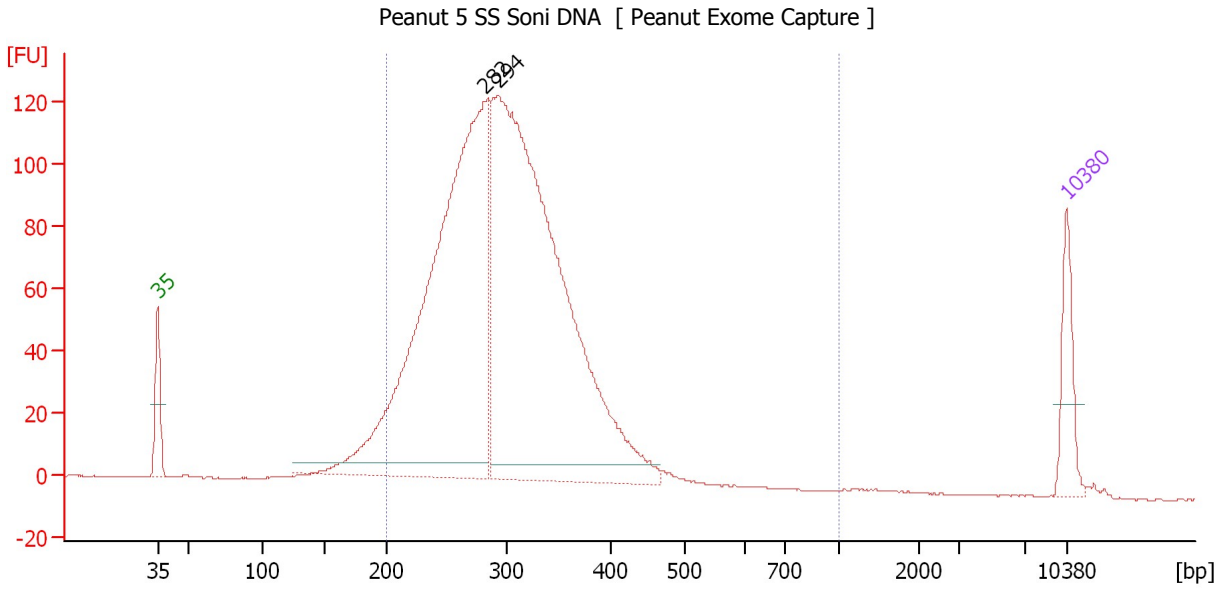
Region table for sample 6 : Peanut 4 SS Soni DNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
120	642	295	2,017.2	21,572.0	3,951.68	99	20.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Peanut 5 SS Soni DNA

Number of peaks found: 2 Corr. Area 1: 2,015.5
 Noise: 0.1

Peak table for sample 7 : Peanut 5 SS Soni DNA

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	282	1,458.55	7,826.8		68.19
3	294	1,696.88	8,745.3		69.27
4	10,380	75.00	10.9	Upper Marker	113.00

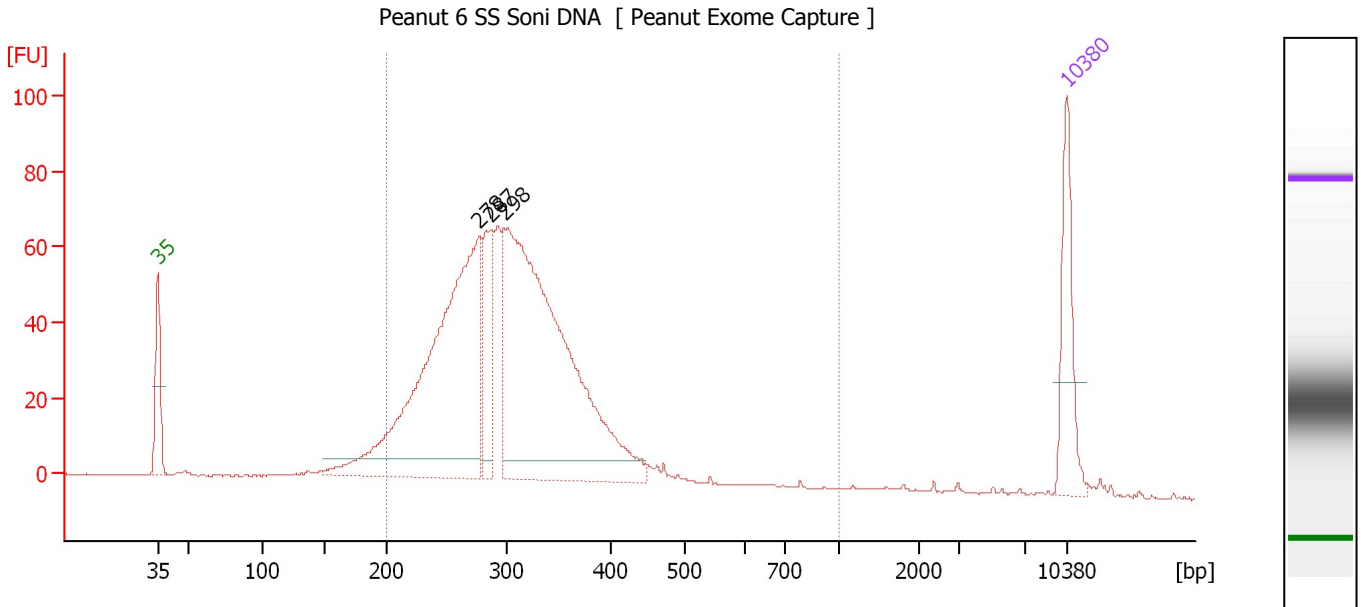
Region table for sample 7 : Peanut 5 SS Soni DNA

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	301	2,015.5	16,358.8	3,135.09	95	18.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Peanut 6 SS Soni DNA

Number of peaks found: 3 Corr. Area 1: 1,099.8
 Noise: 0.1

Peak table for sample 8 : Peanut 6 SS Soni DNA

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	278	594.92	3,247.5		67.75
3	287	108.96	576.1		68.58
4	298	724.33	3,678.5		69.67
5	10,380	75.00	10.9	Upper Marker	113.00

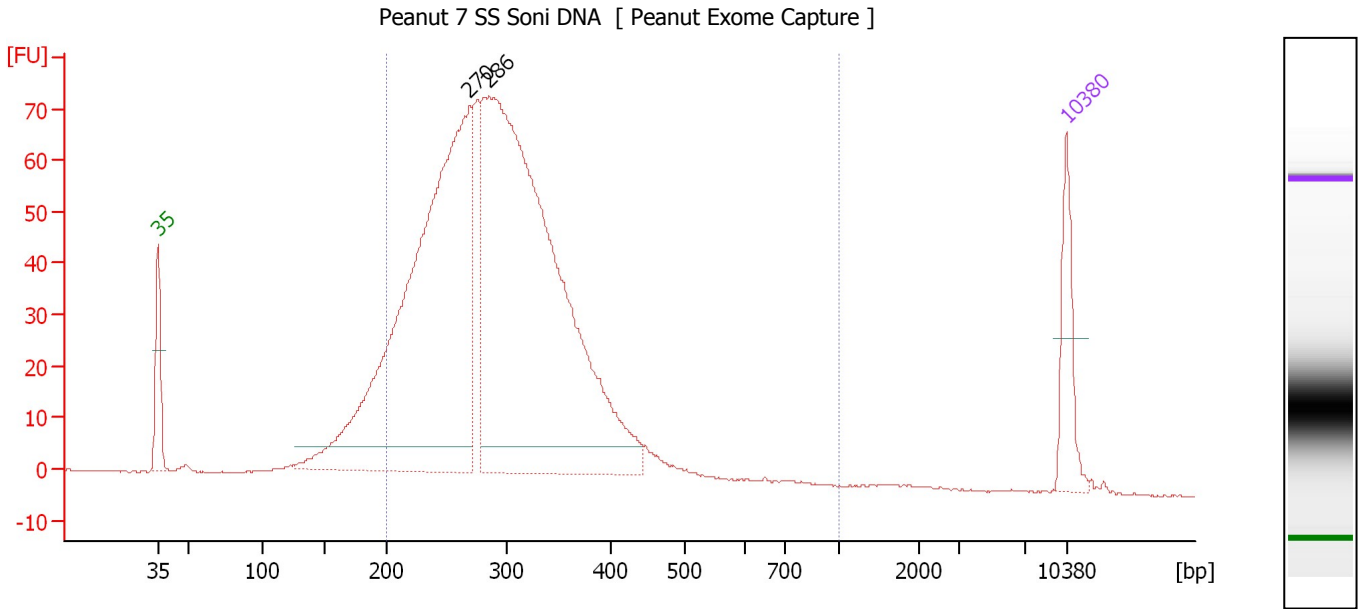
Region table for sample 8 : Peanut 6 SS Soni DNA

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	306	1,099.8	7,789.3	1,508.58	94	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Peanut 7 SS Soni DNA

Number of peaks found: 2 Corr. Area 1: 1,293.4
 Noise: 0.1

Peak table for sample 9 : Peanut 7 SS Soni DNA

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	270	1,221.00	6,862.5		67.01
3	286	1,447.42	7,668.1		68.53
4	10,380	75.00	10.9	Upper Marker	113.00

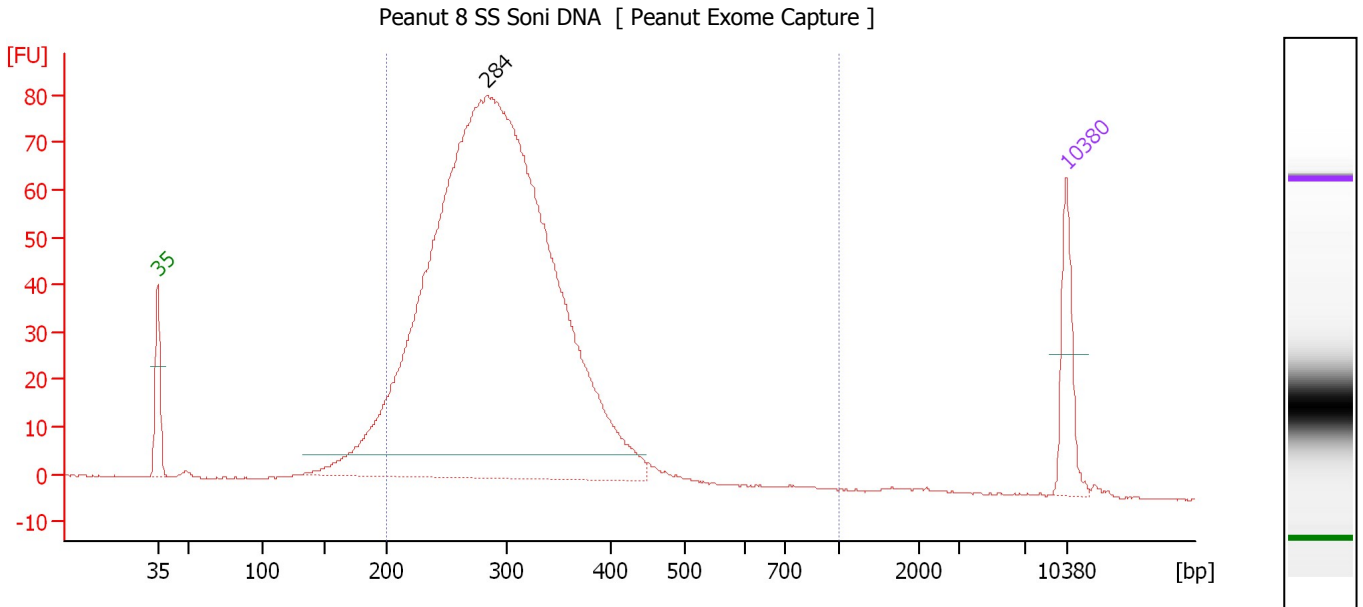
Region table for sample 9 : Peanut 7 SS Soni DNA

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	299	1,293.4	14,151.4	2,664.25	91	21.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Peanut 8 SS Soni DNA

Number of peaks found: 1 Corr. Area 1: 1,282.6
 Noise: 0.2

Peak table for sample 10 : Peanut 8 SS Soni DNA

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	284	2,764.19	14,753.3		68.33
3	10,380	75.00	10.9	Upper Marker	113.00

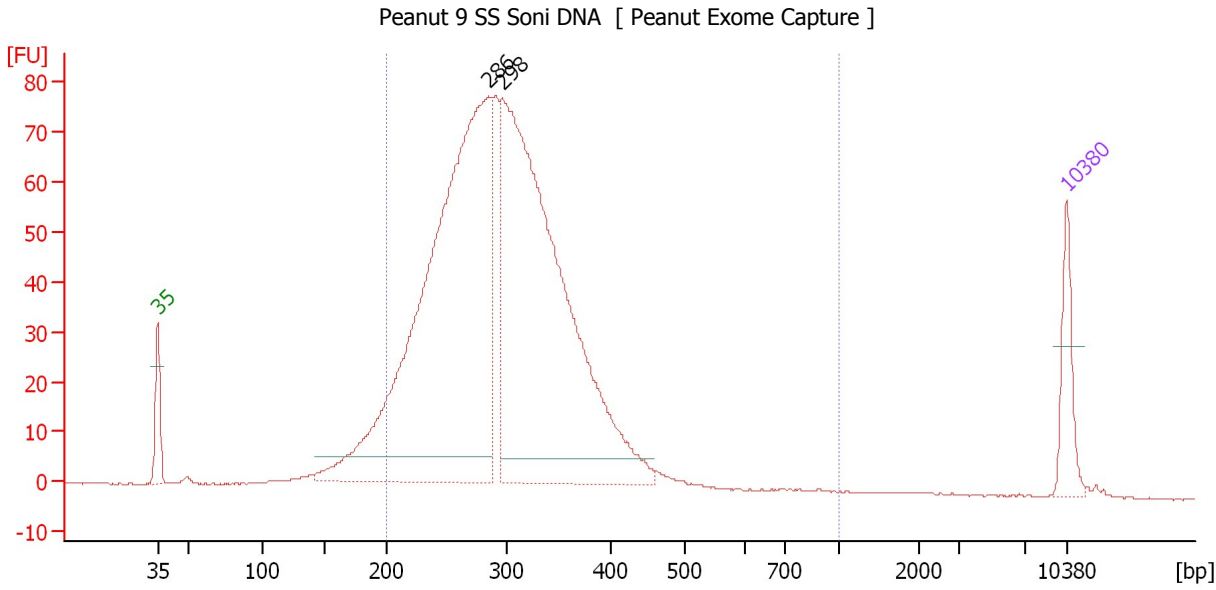
Region table for sample 10 : Peanut 8 SS Soni DNA

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	298	1,282.6	14,189.9	2,689.56	95	18.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Peanut 9 SS Soni DNA

Number of peaks found: 2 Corr. Area 1: 1,259.8
 Noise: 0.1

Peak table for sample 11 : Peanut 9 SS Soni DNA

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	286	1,607.60	8,530.4		68.49
3	298	1,463.47	7,451.4		69.60
4	10,380	75.00	10.9	Upper Marker	113.00

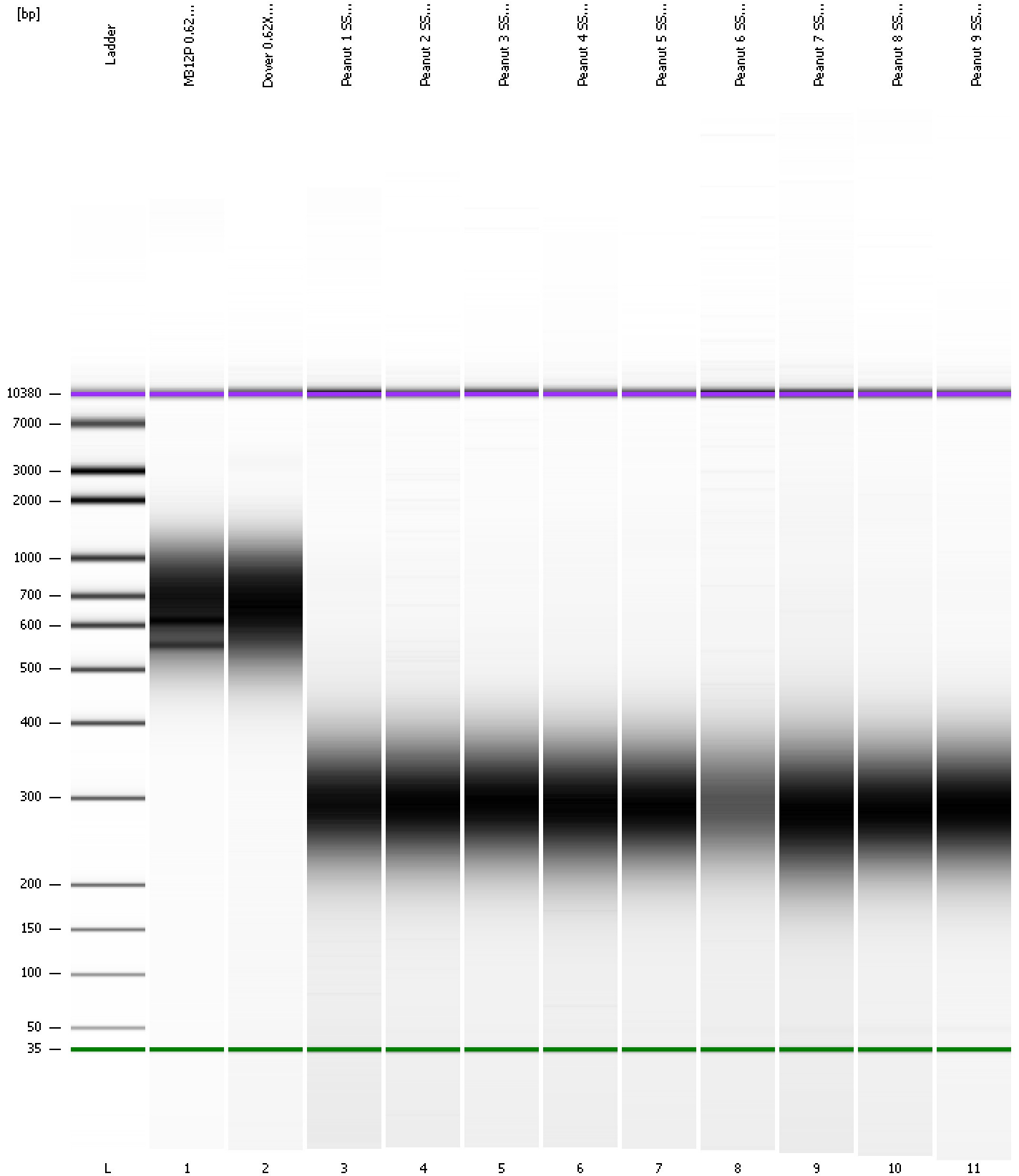
Region table for sample 11 : Peanut 9 SS Soni DNA

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	301	1,259.8	16,886.4	3,221.55	94	19.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
Modified: 6/7/2016 5:32:54 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad

Created: 6/7/2016 4:47:52 PM
 Modified: 6/7/2016 5:32:54 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		6/7/2016 5:29:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-07\2016-06-07_002.xad)		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/7/2016 4:47:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1