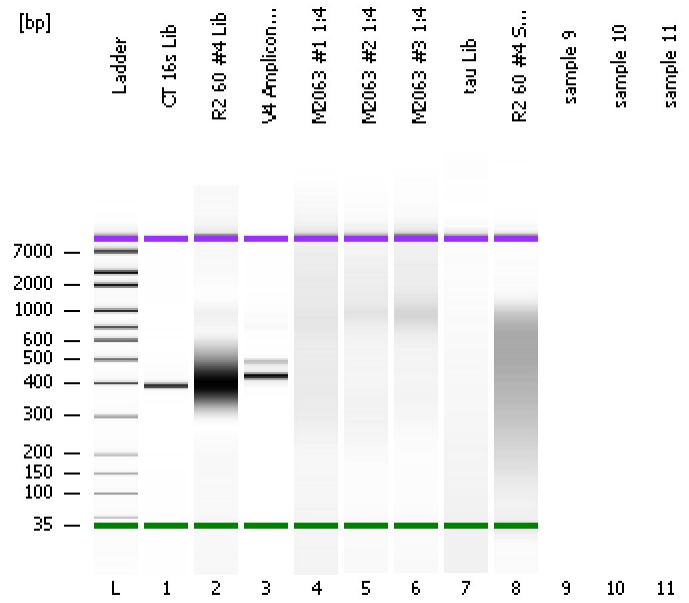
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

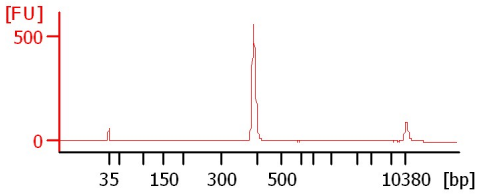
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

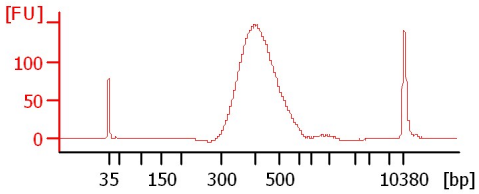
Chip Information:

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

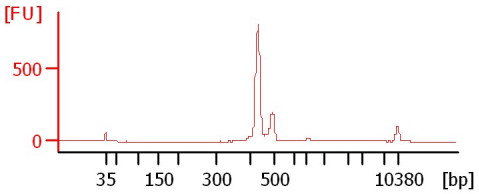
CT 16s Lib



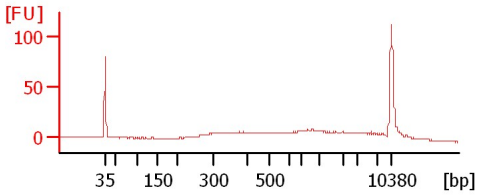
R2 60 #4 Lib



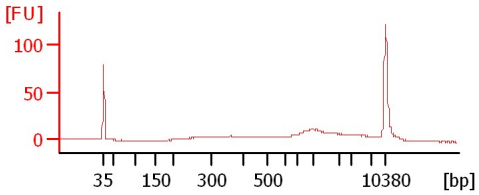
V4 Amplicon Lib 1:10



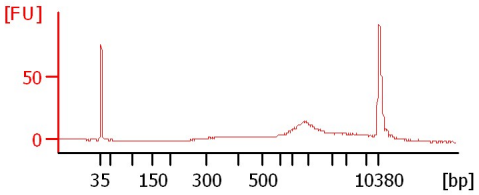
M2063 #1 1:4



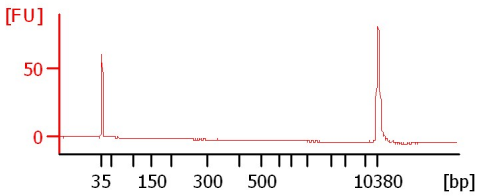
M2063 #2 1:4



M2063 #3 1:4

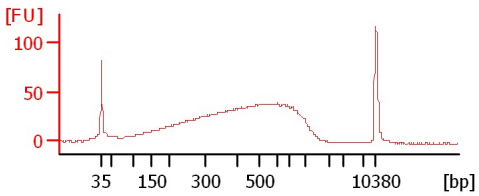


tau Lib



R2 60 #4 Soni 1:7

7 Cycles



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CT 16s Lib		☐	✔			
R2 60 #4 Lib		☐	✔			
V4 Amplicon Lib 1:10		☐	✔			
M2063 #1 1:4		☐	✔			
M2063 #2 1:4		☐	✔			
M2063 #3 1:4		☐	✔			
tau Lib		☐	✔			
R2 60 #4 Soni 1:7	7 Cycles	☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

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

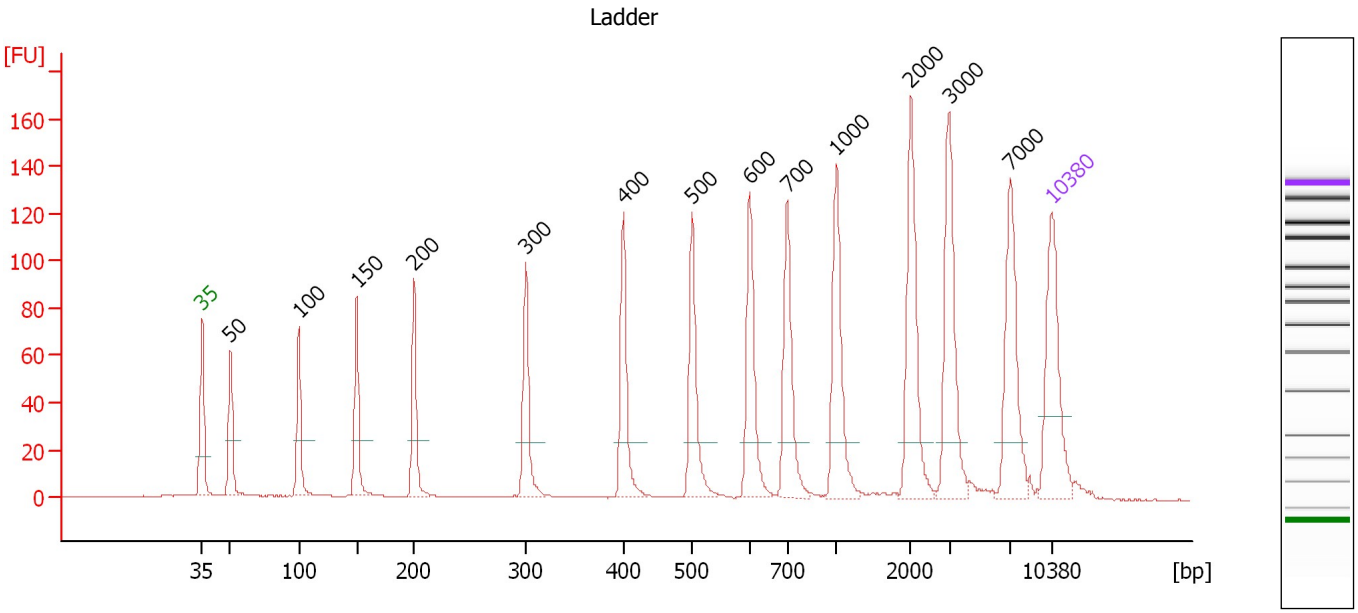
Ladder

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\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

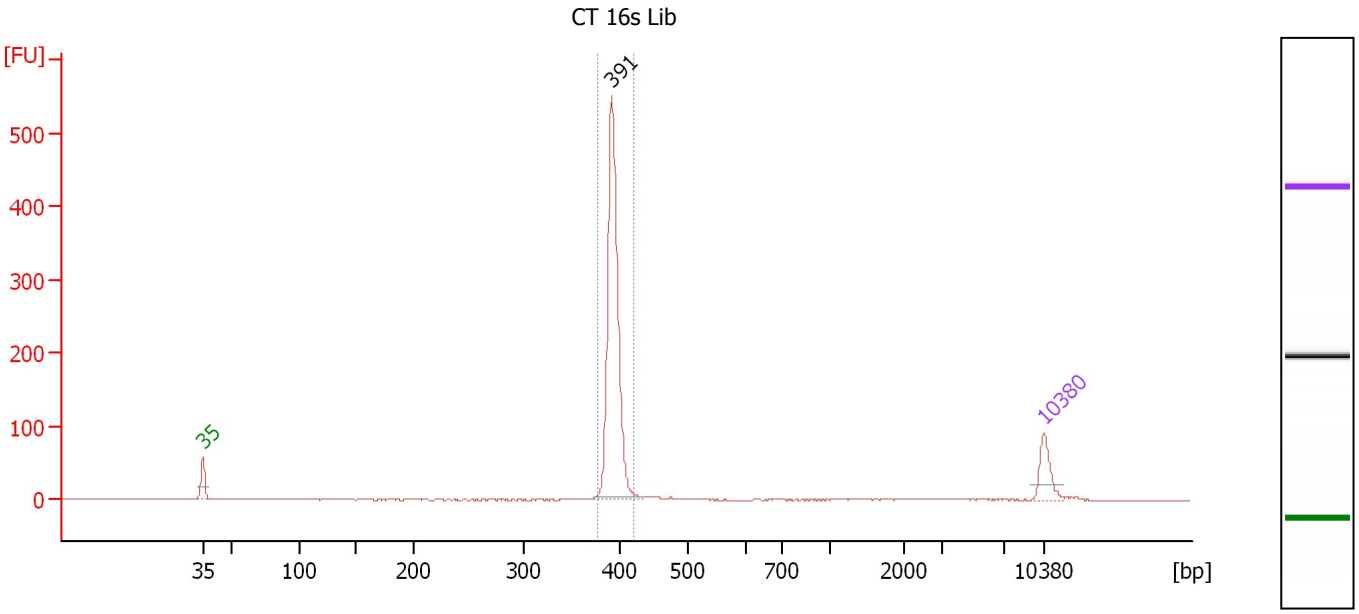
Peak table for Ladder

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\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CT 16s Lib

Number of peaks found:	1	Corr. Area 1:	720.6
Noise:	0.2		

Peak table for sample 1 : CT 16s Lib

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		391	917.15	3,552.8	
3	▶	10,380	75.00	10.9	Upper Marker

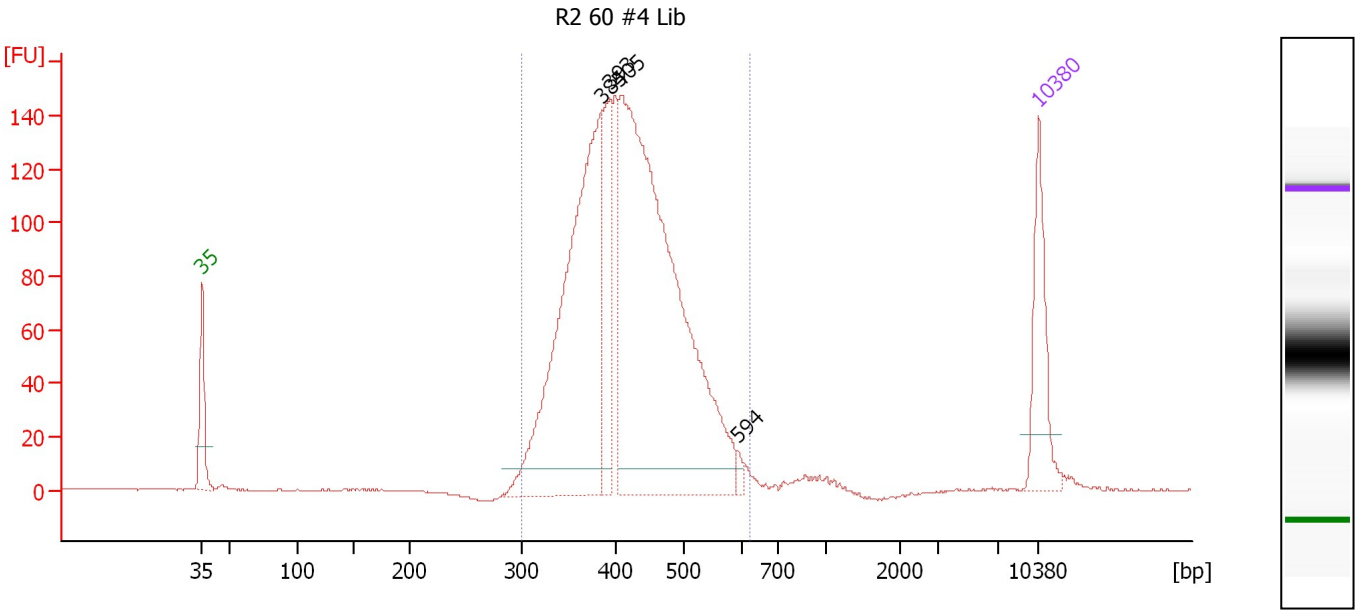
Region table for sample 1 : CT 16s Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
377	420	393	3,494.7	906.57	720.6	91	1.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : R2 60 #4 Lib

Height Threshold [FU] : 10

Overall Results for sample 2 : R2 60 #4 Lib

Number of peaks found:	4	Corr. Area 1:	1,972.4
Noise:	0.2		

Peak table for sample 2 : R2 60 #4 Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	385	544.22	2,143.6	
3	393	127.48	491.5	
4	405	813.10	3,041.6	
5	594	8.38	21.4	
6	10,380	75.00	10.9	Upper Marker

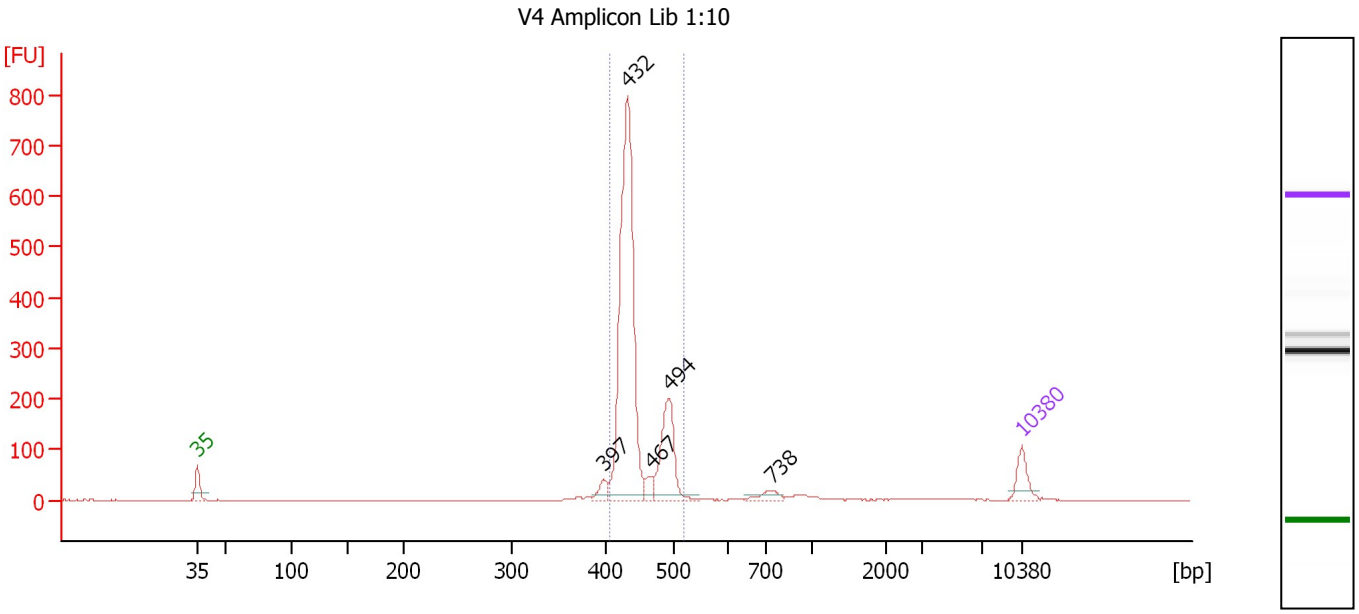
Region table for sample 2 : R2 60 #4 Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
302	625	420	5,618.4	1,518.62	1,972.4	97	14.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : V4 Amplicon Lib 1:10

Height Threshold [FU] : 10

Overall Results for sample 3 : V4 Amplicon Lib 1:10

Number of peaks found:	5	Corr. Area 1:	1,722.3
Noise:	0.1		

Peak table for sample 3 : V4 Amplicon Lib 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	397	50.26	191.7	
3	432	1,448.10	5,076.6	
4	467	44.36	143.8	
5	494	353.09	1,081.9	
6	738	39.69	81.5	
7	10,380	75.00	10.9	Upper Marker

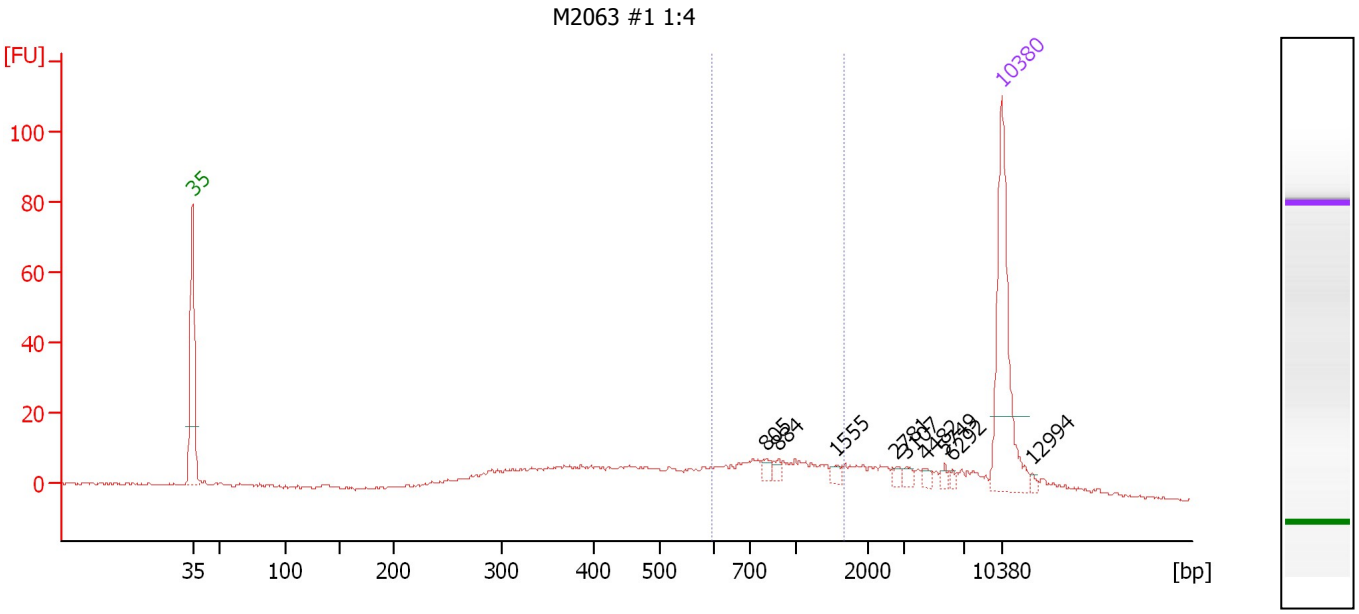
Region table for sample 3 : V4 Amplicon Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
405	519	444	6,319.3	1,848.97	1,722.3	89	5.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : M2063 #1 1:4

Number of peaks found:	9	Corr. Area 1:	107.1
Noise:	0.4		

Peak table for sample 4 : M2063 #1 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	805	4.63	8.7	
3	884	4.57	7.8	
4	1,555	3.65	3.6	
5	2,781	3.45	1.9	
6	3,107	3.45	1.7	
7	4,482	3.02	1.0	
8	5,749	2.94	0.8	
9	6,292	2.07	0.5	
10	10,380	75.00	10.9	Upper Marker
11	12,994	0.00	0.0	

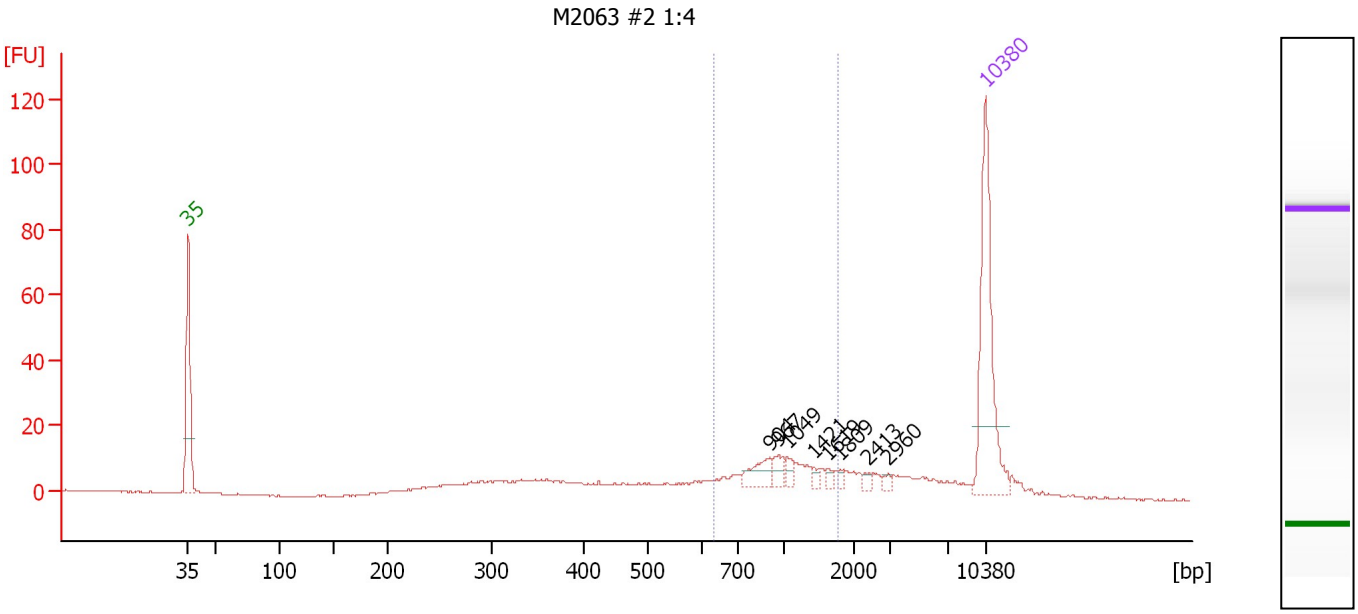
Region table for sample 4 : M2063 #1 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
595	1,659	958	153.7	87.53	107.1	25	31.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M2063 #2 1:4

Number of peaks found:	8	Corr. Area 1:	104.5
Noise:	0.2		

Peak table for sample 5 : M2063 #2 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	904	14.71	24.7	
3	967	7.80	12.2	
4	1,049	4.78	6.9	
5	1,421	2.94	3.1	
6	1,619	2.73	2.6	
7	1,809	2.44	2.0	
8	2,413	2.50	1.6	
9	2,960	2.47	1.3	
10	10,380	75.00	10.9	Upper Marker

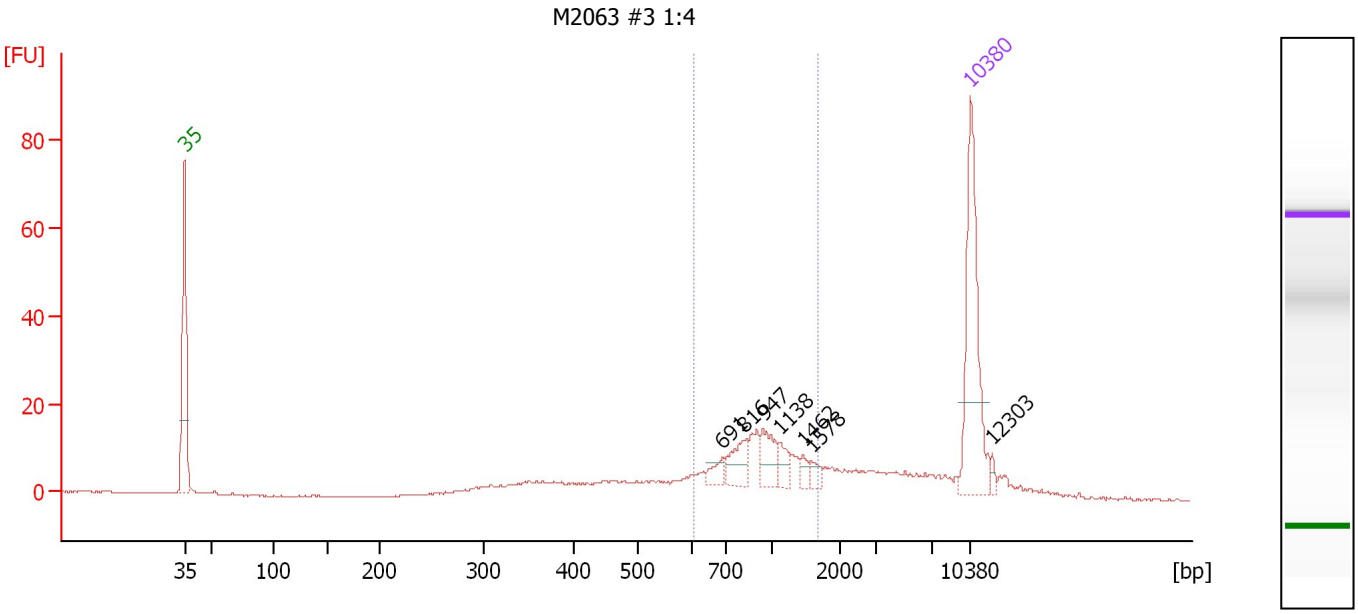
Region table for sample 5 : M2063 #2 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
632	1,785	1,072	122.9	79.09	104.5	33	30.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M2063 #3 1:4

Number of peaks found:	7	Corr. Area 1:	121.2
Noise:	0.2		

Peak table for sample 6 : M2063 #3 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	691	9.26	20.3	
3	816	19.55	36.3	
4	947	19.58	31.3	
5	1,138	9.76	13.0	
6	1,462	5.34	5.5	
7	1,578	5.84	5.6	
8	10,380	75.00	10.9	Upper Marker
9	12,303	0.00	0.0	

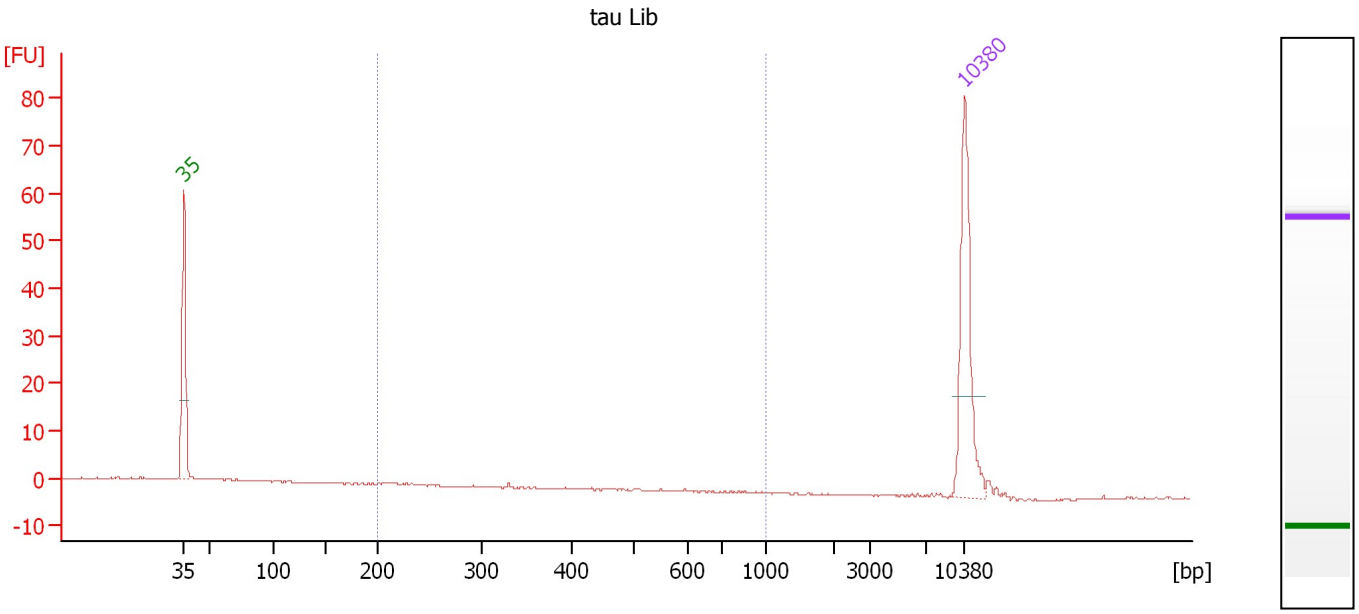
Region table for sample 6 : M2063 #3 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
607	1,672	988	199.8	119.86	121.2	41	28.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : tau Lib

Number of peaks found:	0	Corr. Area 1:	0.8
Noise:	0.2		

Peak table for sample 7 : tau Lib

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

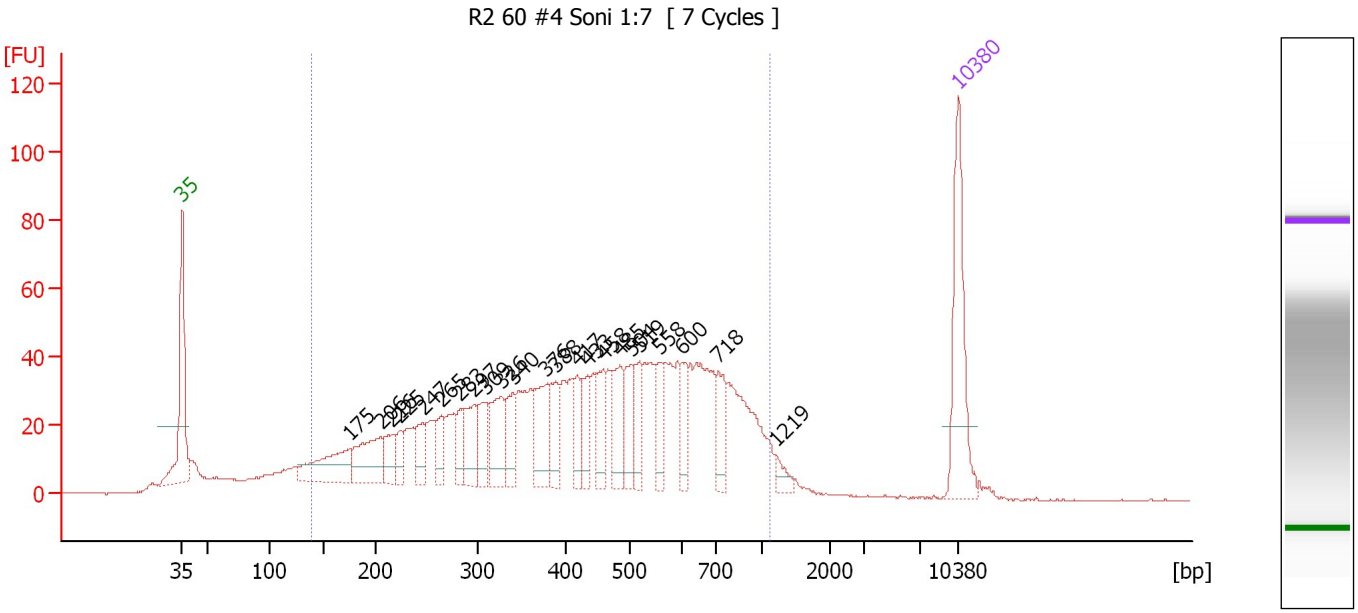
Region table for sample 7 : tau Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	246	9.0	1.37	0.8	5	20.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : R2 60 #4 Soi 1:7

Number of peaks found:	23	Corr. Area 1:	1,526.8
Noise:	0.2		

Peak table for sample 8 : R2 60 #4 Soi 1:7

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	175	73.61	636.8	
3	206	66.66	490.4	
4	216	25.99	182.0	
5	225	19.27	129.9	
6	247	28.43	174.7	
7	265	24.09	137.8	
8	283	22.10	118.3	
9	297	41.53	212.1	
10	309	35.49	173.8	
11	326	53.43	248.3	
12	340	32.66	145.6	
13	376	51.68	208.1	
14	388	35.45	138.5	
15	417	26.57	96.5	
16	433	28.16	98.4	
17	458	33.24	109.9	
18	485	41.35	129.1	
19	504	31.58	95.0	
20	519	27.71	80.9	
21	558	29.98	81.3	
22	600	24.66	62.3	
23	718	32.03	67.6	
24	1,219	9.95	12.4	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Electropherogram Summary Continued ...

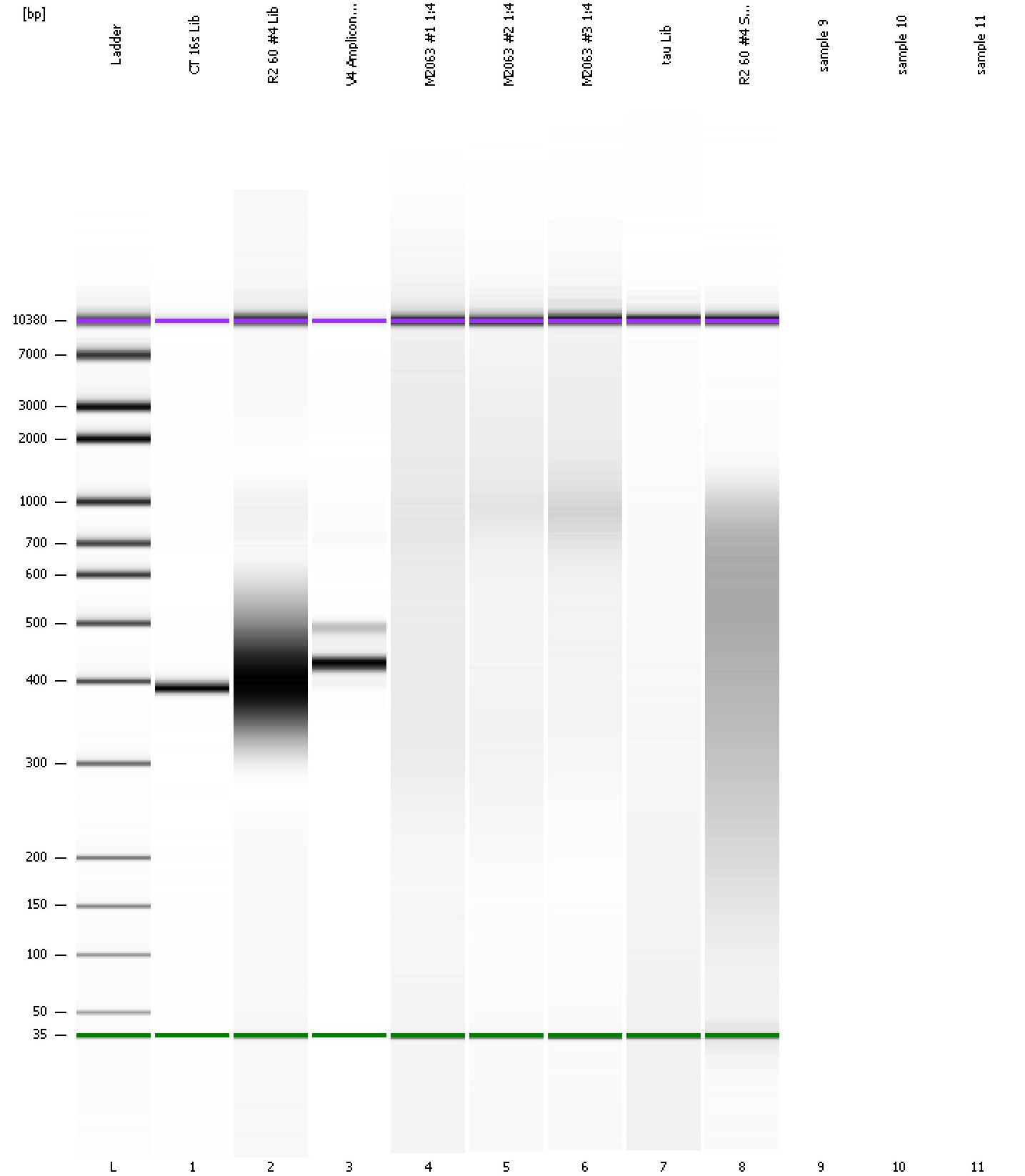
... Region table for sample 8 : R2 60 #4 Soni 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
140	1,128	462	6,738.9	1,511.57	1,526.8	89	43.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Invalid Samples

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\2013-05-08\2013-05-08_001.xad

Created: 5/8/2013 10:08:45 AM
Modified: 5/8/2013 10:46:16 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		5/8/2013 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-08\2013-05-08_001.xad)		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/8/2013 10:08:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1