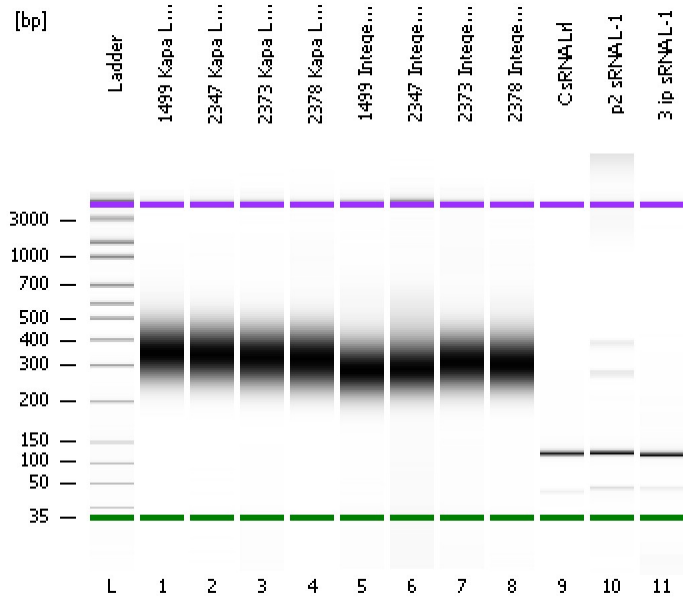


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
Modified: 5/22/2013 2:07:55 PM

Electrophoresis File Run Summary



Instrument Information:

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

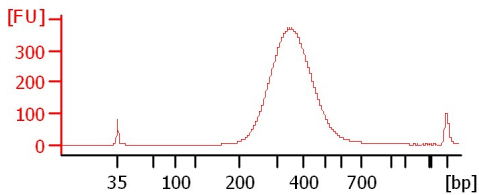
Assay Information:

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

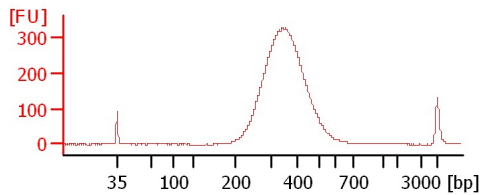
Chip Information:

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

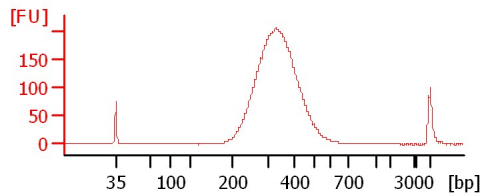
1499 Kapa Lib 1:10



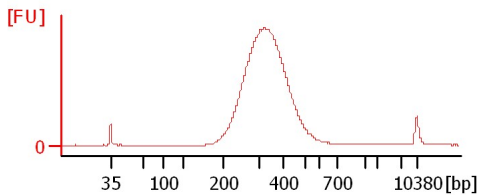
2347 Kapa Lib 1:15



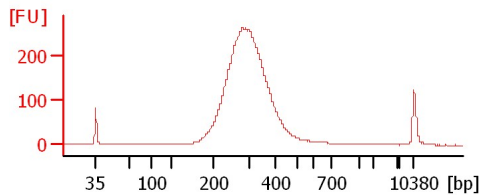
2373 Kapa Lib 1:10



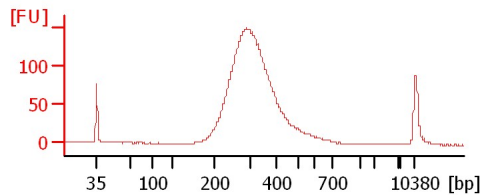
2378 Kapa Lib 1:10



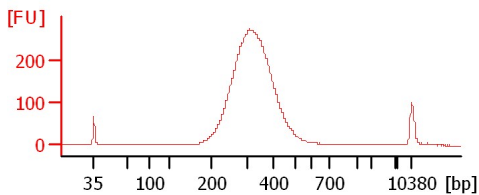
1499 IntegenX Lib 1:10



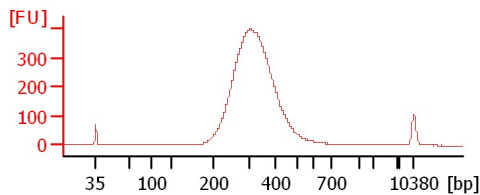
2347 IntegenX Lib 1:15



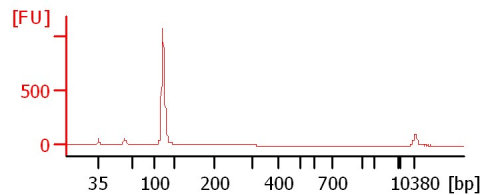
2373 IntegenX Lib 1:10



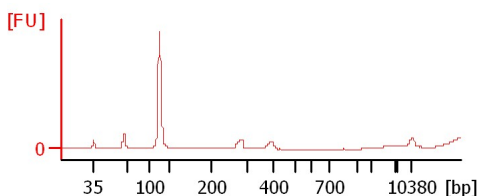
2378 IntegenX Lib 1:10



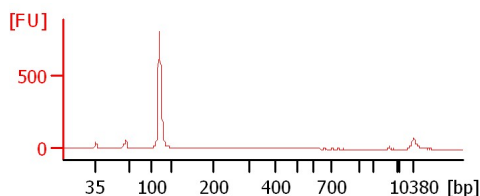
C sRNA Lrl



p2 sRNA L-1



3 ip sRNA L-1



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
Modified: 5/22/2013 2:07:55 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1499 Kapa Lib 1:10		<input type="checkbox"/>	✓			
2347 Kapa Lib 1:15		<input type="checkbox"/>	✓			
2373 Kapa Lib 1:10		<input type="checkbox"/>	✓			
2378 Kapa Lib 1:10		<input type="checkbox"/>	✓			
1499 IntegenX Lib 1:10		<input type="checkbox"/>	✓			
2347 IntegenX Lib 1:15		<input type="checkbox"/>	✓			
2373 IntegenX Lib 1:10		<input type="checkbox"/>	✓			
2378 IntegenX Lib 1:10		<input type="checkbox"/>	✓			
C sRNA LrI		<input type="checkbox"/>	✓			
p2 sRNA L-1		<input type="checkbox"/>	✓			
3 ip sRNA L-1		<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\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
Modified: 5/22/2013 2:07:55 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

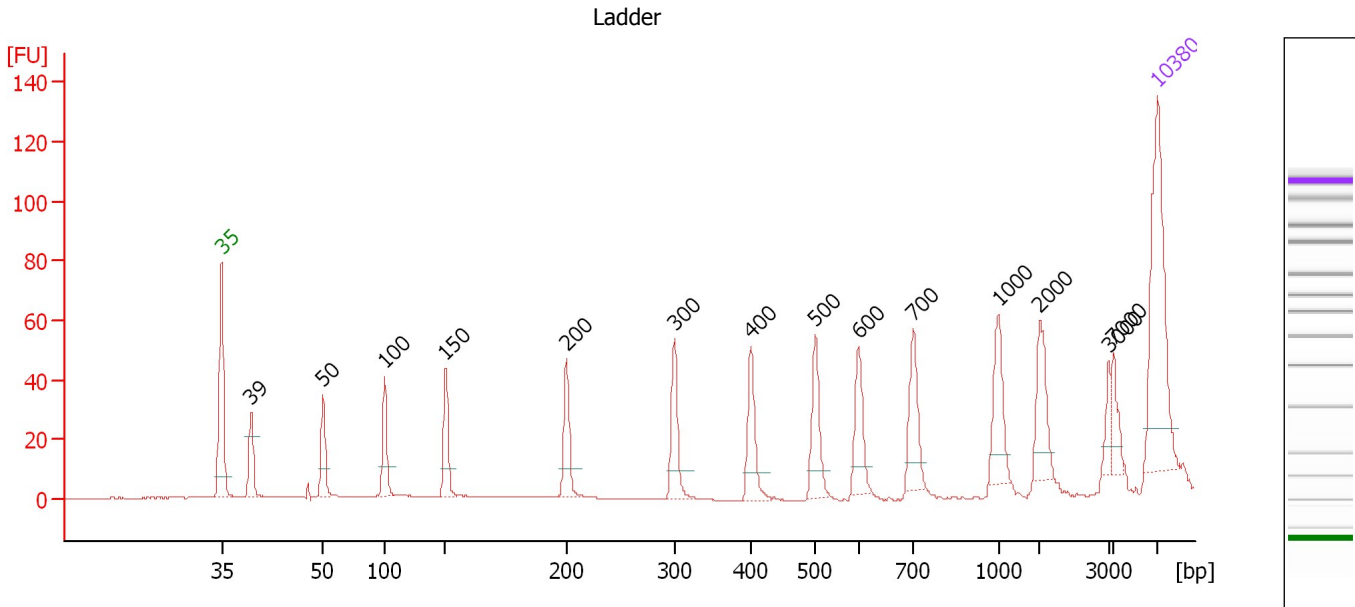
Ladder

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\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

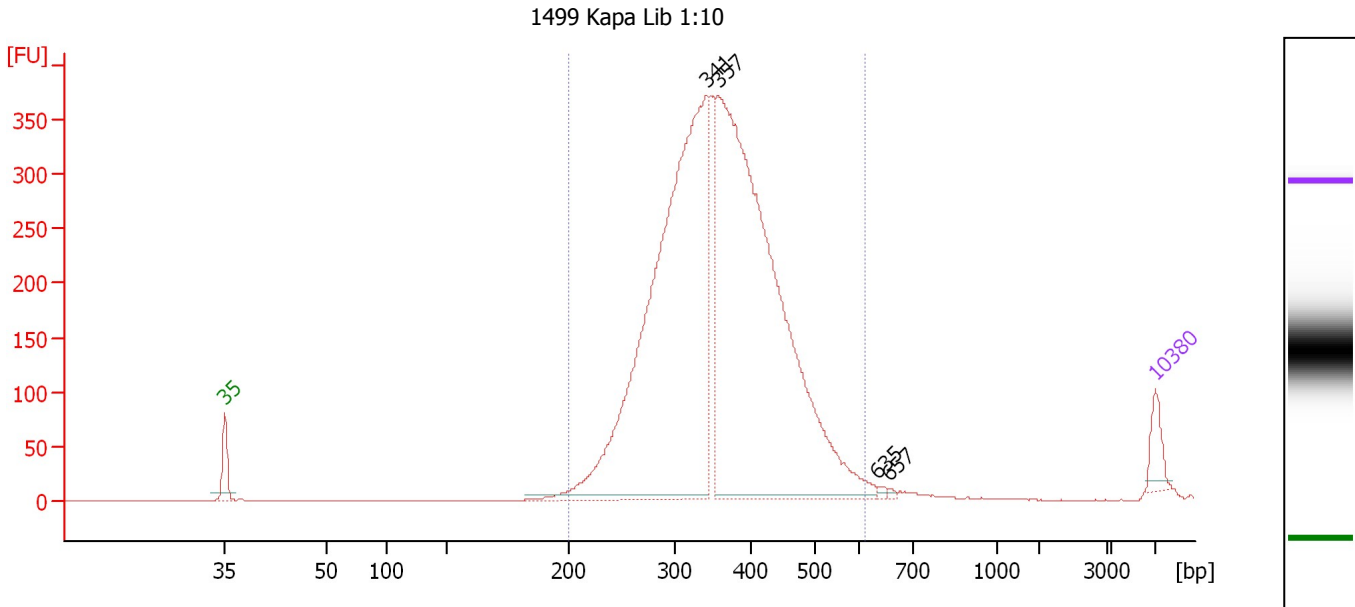
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	0.00	0.0	
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	150	150.00	1,515.2	Ladder Peak
6	200	150.00	1,136.4	Ladder Peak
7	300	150.00	757.6	Ladder Peak
8	400	150.00	568.2	Ladder Peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1499 Kapa Lib 1:10

Number of peaks found: 4 Corr. Area 1: 5,128.3
 Noise: 0.1

Peak table for sample 1 : 1499 Kapa Lib 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	341	3,378.17	14,993.3	
3	357	3,665.62	15,563.7	
4	635	11.48	27.4	
5	657	7.99	18.4	
6	10,380	75.00	10.9	Upper Marker

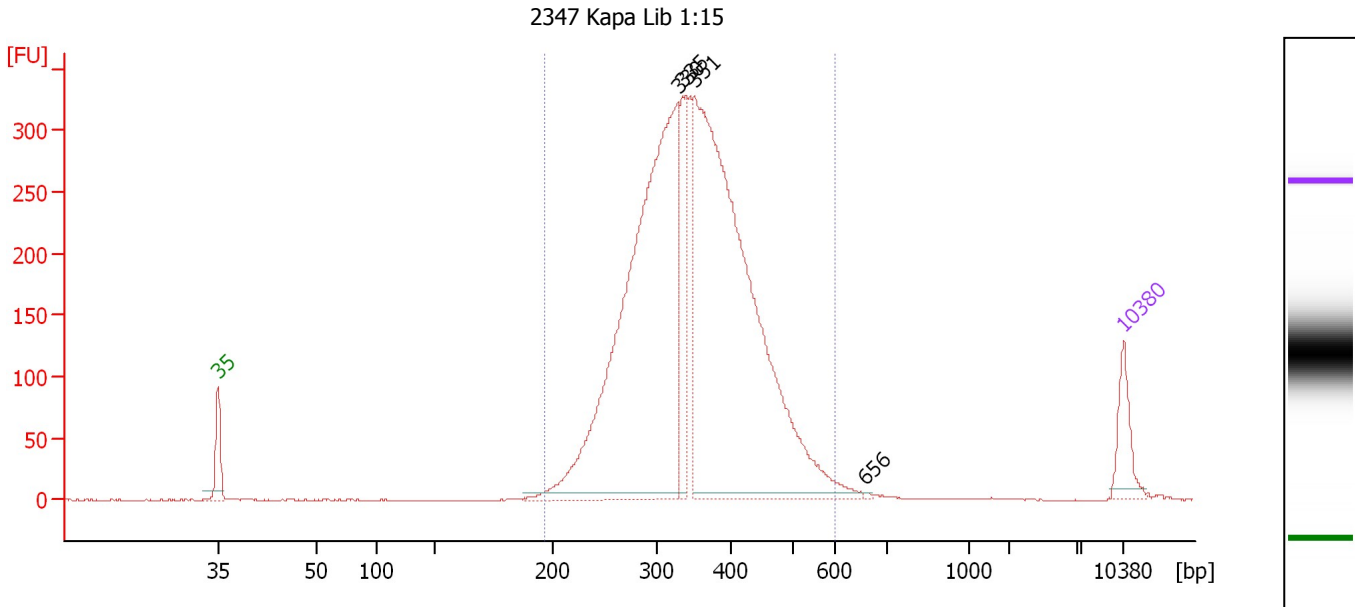
Region table for sample 1 : 1499 Kapa Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	612	360	32,352.2	7,304.94	5,128.3	99	20.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2347 Kapa Lib 1:15

Number of peaks found: 4 Corr. Area 1: 4,630.4
 Noise: 0.3

Peak table for sample 2 : 2347 Kapa Lib 1:15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	330	1,863.88	8,566.0	
3	335	270.13	1,220.1	
4	351	2,043.98	8,814.3	
5	656	2.95	6.8	
6	10,380	75.00	10.9	Upper Marker

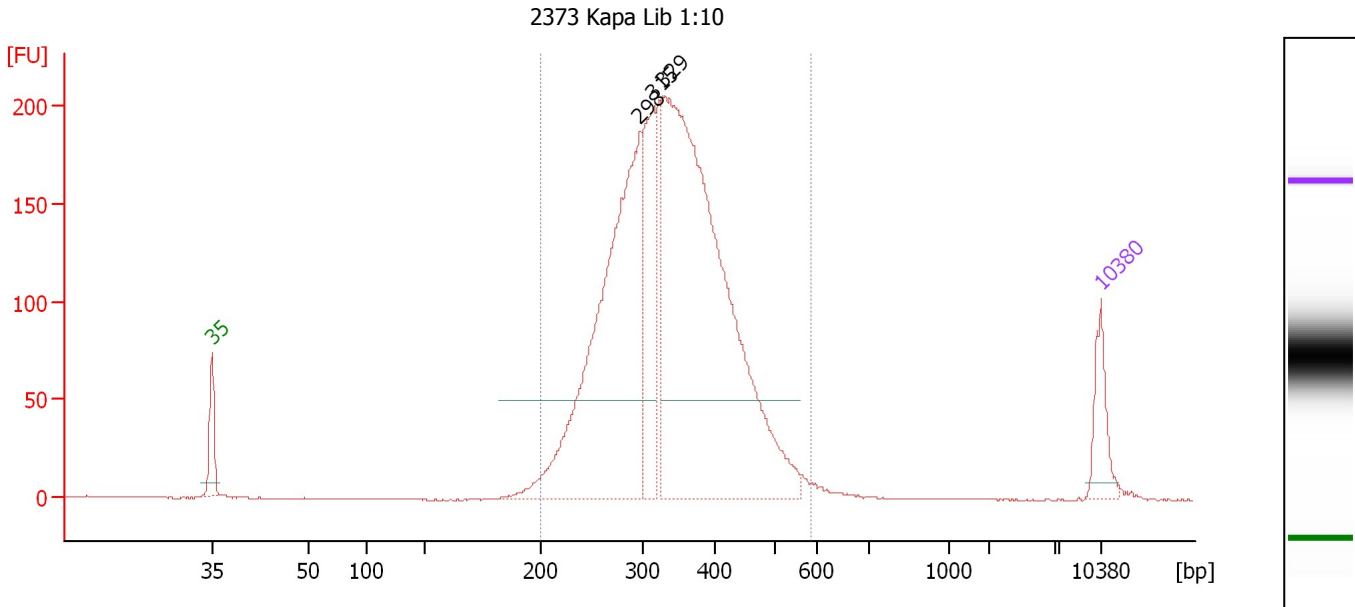
Region table for sample 2 : 2347 Kapa Lib 1:15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
197	600	352	19,551.6	4,311.46	4,630.4	99	20.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : 2373 Kapa Lib 1:10

Height Threshold [FU] : 50

Overall Results for sample 3 : 2373 Kapa Lib 1:10

Number of peaks found: 3 Corr. Area 1: 2,935.7
 Noise: 0.2

Peak table for sample 3 : 2373 Kapa Lib 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	298	1,256.87	6,397.1	
3	315	356.83	1,715.6	
4	329	1,888.23	8,692.4	
5	10,380	75.00	10.9	Upper Marker

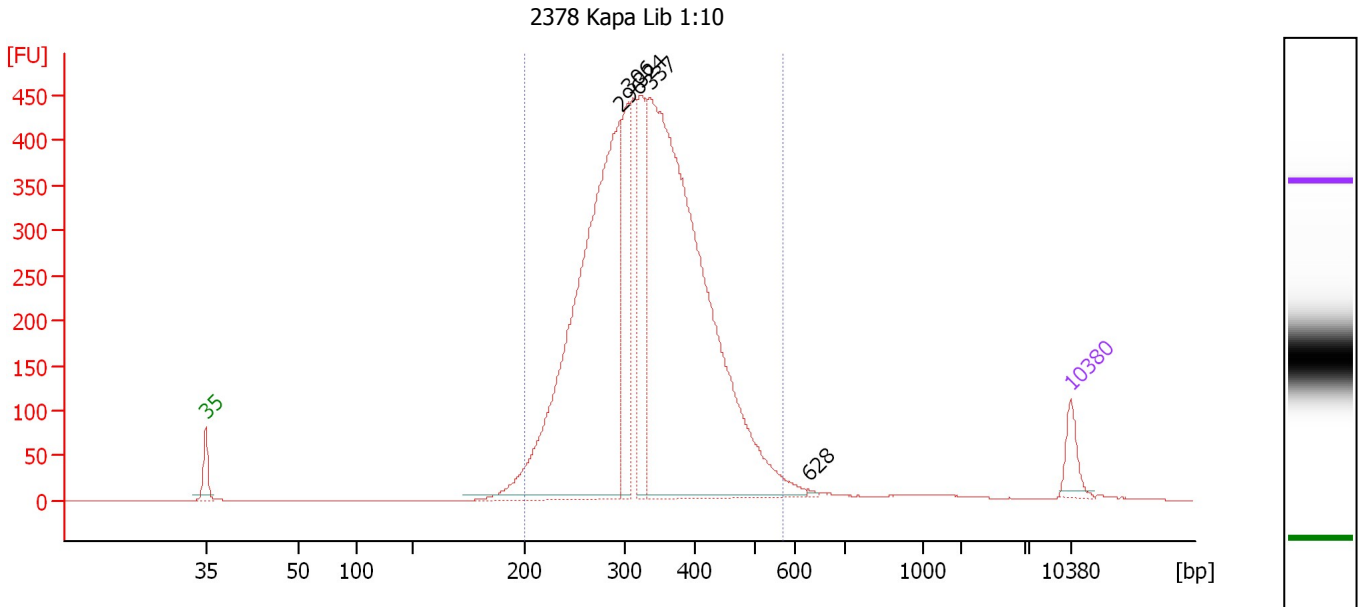
Region table for sample 3 : 2373 Kapa Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	586	341	16,543.8	3,537.61	2,935.7	98	20.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2378 Kapa Lib 1:10

Number of peaks found: 5 Corr. Area 1: 6,763.8
 Noise: 0.2

Peak table for sample 4 : 2378 Kapa Lib 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	296	2,697.83	13,814.3	
3	306	477.02	2,359.6	
4	324	500.97	2,339.4	
5	337	3,423.59	15,377.2	
6	628	6.89	16.6	
7	10,380	75.00	10.9	Upper Marker

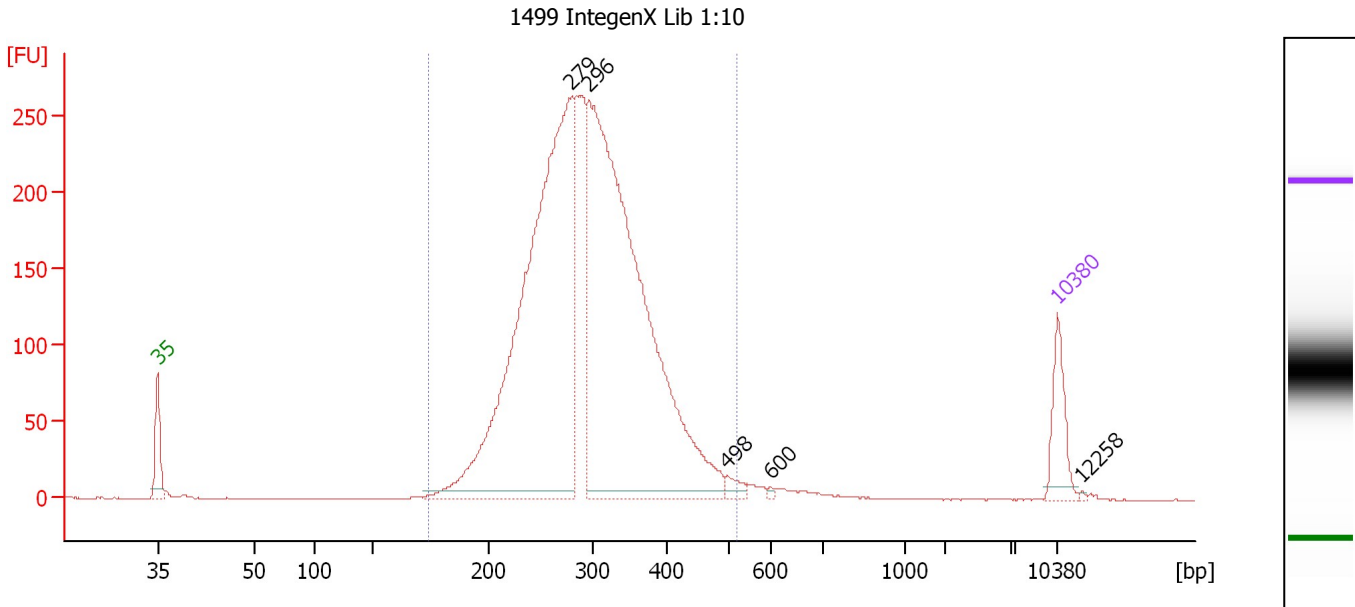
Region table for sample 4 : 2378 Kapa Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	569	336	34,619.5	7,266.53	6,763.8	97	20.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1499 IntegenX Lib 1:10

Number of peaks found: 5 Corr. Area 1: 3,726.3
 Noise: 0.1

Peak table for sample 5 : 1499 IntegenX Lib 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	279	1,668.34	9,050.0	
3	296	1,786.54	9,139.7	
4	498	21.26	64.7	
5	600	3.53	8.9	
6	10,380	75.00	10.9	Upper Marker
7	12,258	0.00	0.0	

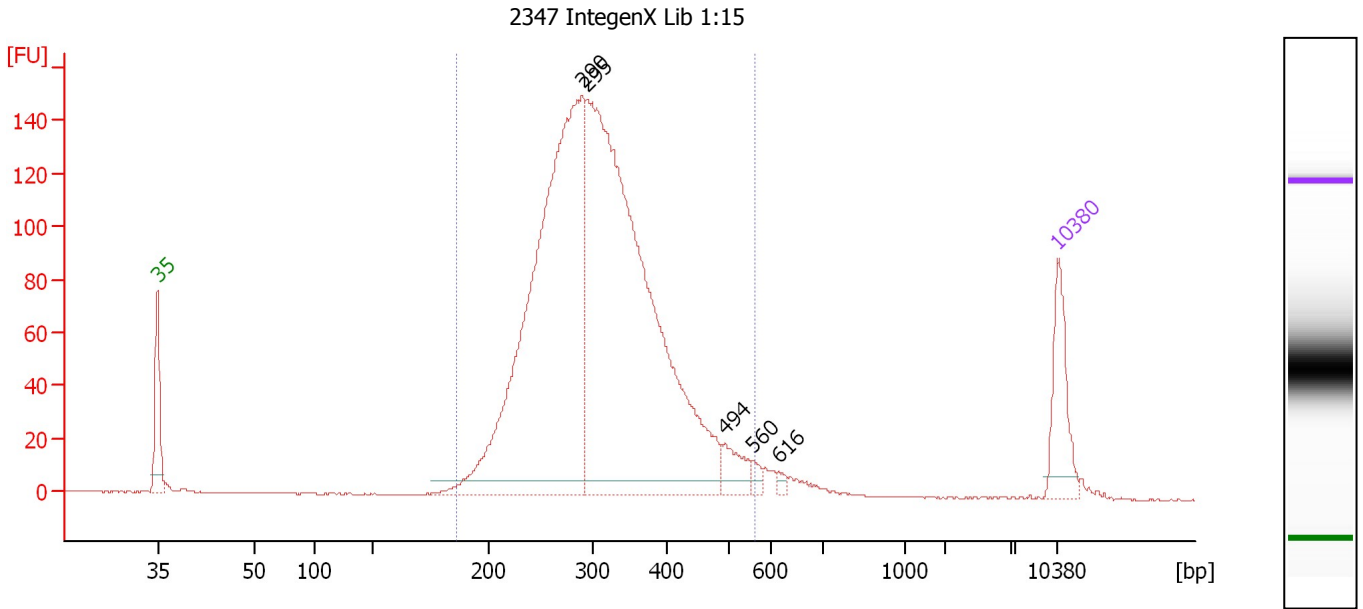
Region table for sample 5 : 1499 IntegenX Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
174	518	301	20,105.2	3,797.13	3,726.3	98	20.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2347 IntegenX Lib 1:15

Number of peaks found: 5 Corr. Area 1: 2,137.1
 Noise: 0.2

Peak table for sample 6 : 2347 IntegenX Lib 1:15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	290	1,164.39	6,088.9	
3	295	1,365.05	7,018.8	
4	494	46.25	141.8	
5	560	11.41	30.9	
6	616	7.36	18.1	
7	10,380	75.00	10.9	Upper Marker

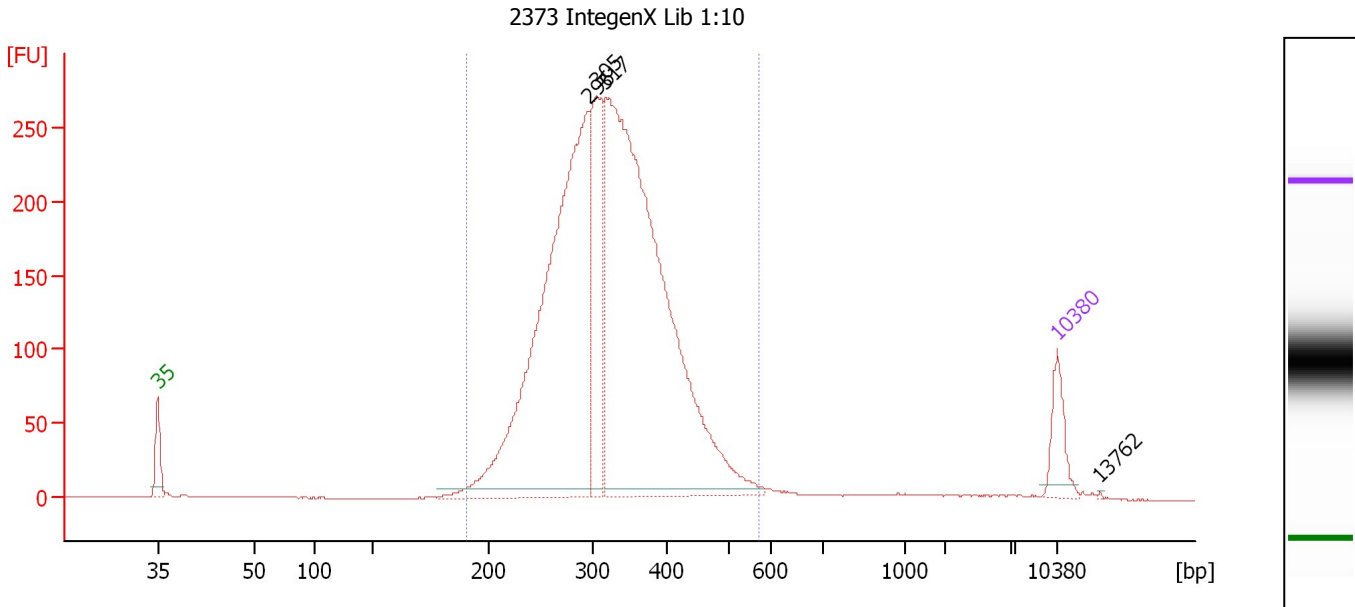
Region table for sample 6 : 2347 IntegenX Lib 1:15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
186	563	315	12,952.9	2,544.30	2,137.1	96	22.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2373 IntegenX Lib 1:10

Number of peaks found: 4 Corr. Area 1: 3,769.1
 Noise: 0.1

Peak table for sample 7 : 2373 IntegenX Lib 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	296	1,752.57	8,962.1	
3	305	418.98	2,082.5	
4	317	2,233.39	10,667.4	
5	10,380	75.00	10.9	Upper Marker
6	13,762	0.00	0.0	

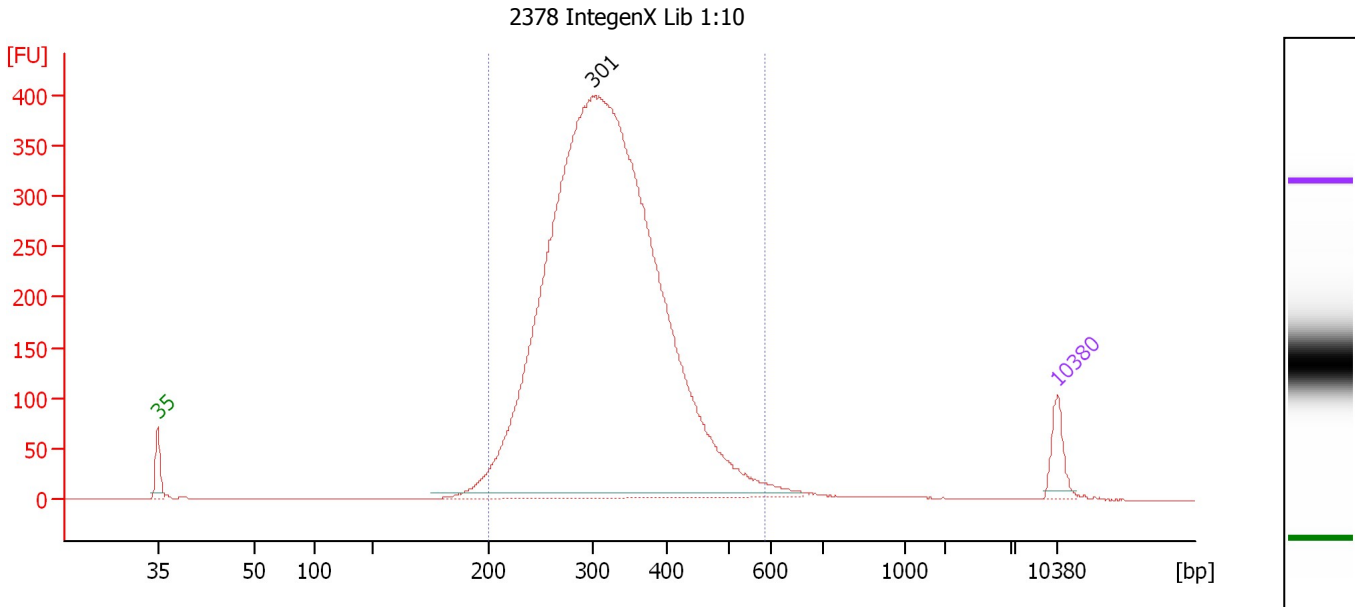
Region table for sample 7 : 2373 IntegenX Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
191	573	326	21,477.4	4,398.88	3,769.1	97	20.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2378 IntegenX Lib 1:10

Number of peaks found: 1 Corr. Area 1: 5,511.6
 Noise: 0.1

Peak table for sample 8 : 2378 IntegenX Lib 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	301	6,639.38	33,469.7	
3	10,380	75.00	10.9	Upper Marker

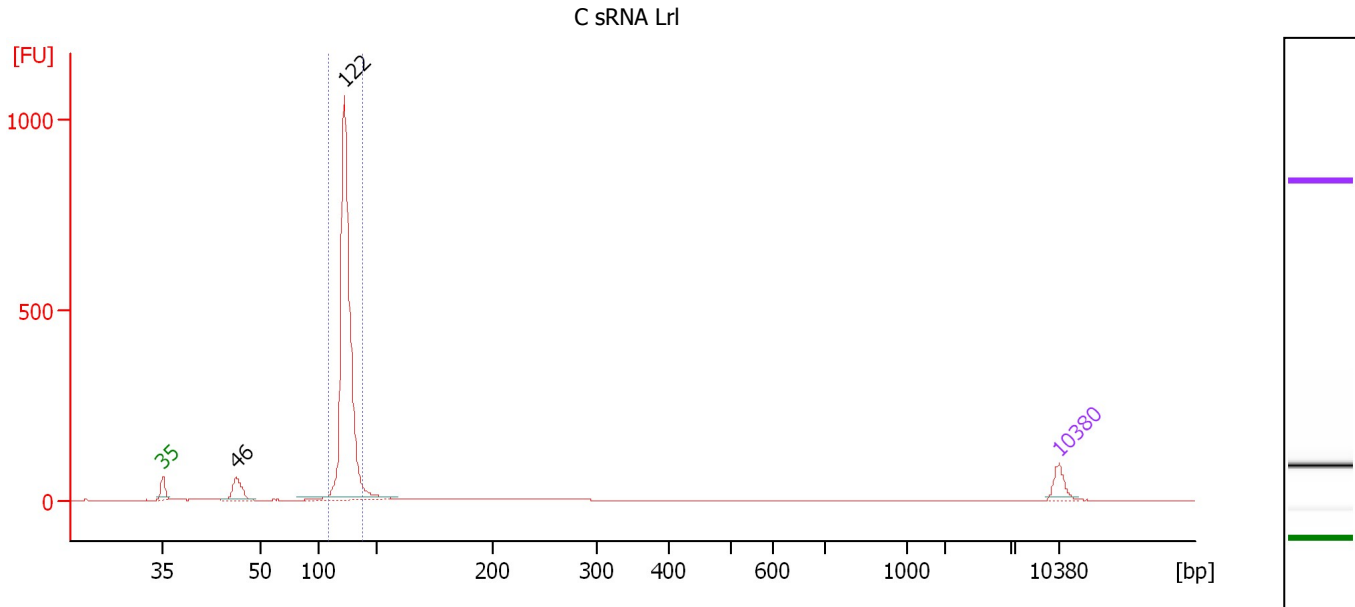
Region table for sample 8 : 2378 IntegenX Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	588	326	31,129.4	6,368.39	5,511.6	97	20.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C sRNA Lrl

Number of peaks found: 2 Corr. Area 1: 1,588.3
 Noise: 0.1

Peak table for sample 9 : C sRNA Lrl

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	192.87	6,310.1	
3	122	2,783.48	34,658.1	
4	10,380	75.00	10.9	Upper Marker

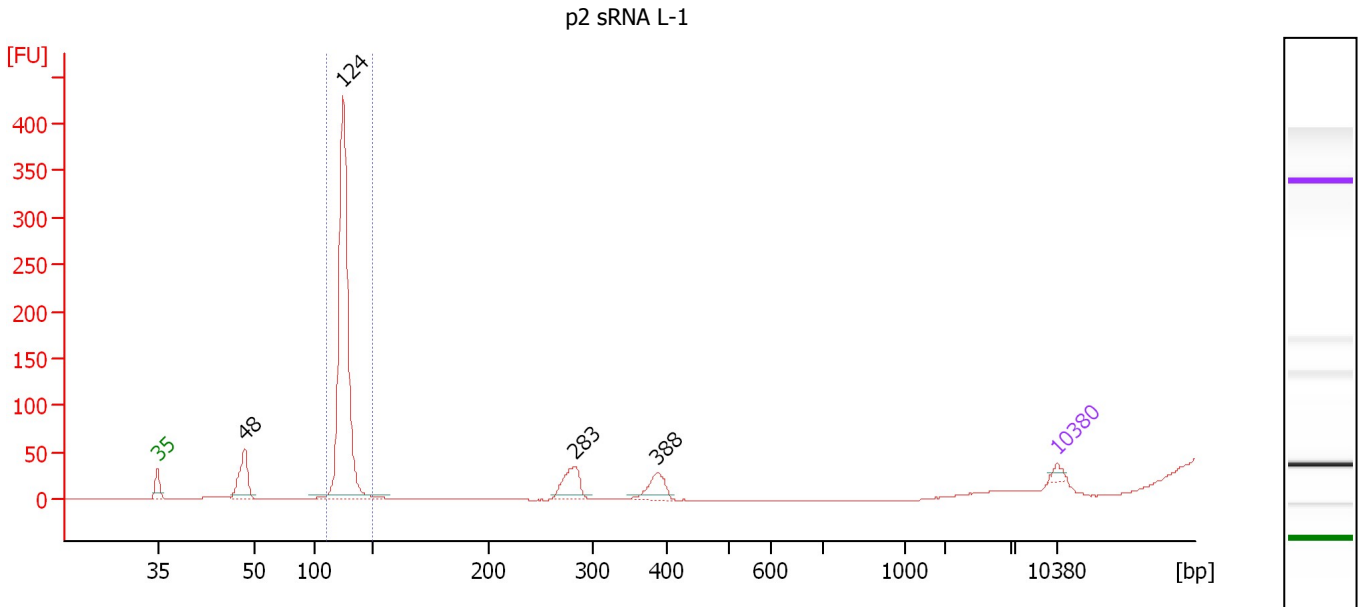
Region table for sample 9 : C sRNA Lrl

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
108	138	123	32,929.6	2,678.69	1,588.3	84	3.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : p2 sRNA L-1

Number of peaks found: 4 Corr. Area 1: 593.8
 Noise: 0.2

Peak table for sample 10 : p2 sRNA L-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	827.03	25,897.6	
3	124	6,146.27	74,992.4	
4	283	541.42	2,898.3	
5	388	359.52	1,402.3	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 10 : p2 sRNA L-1

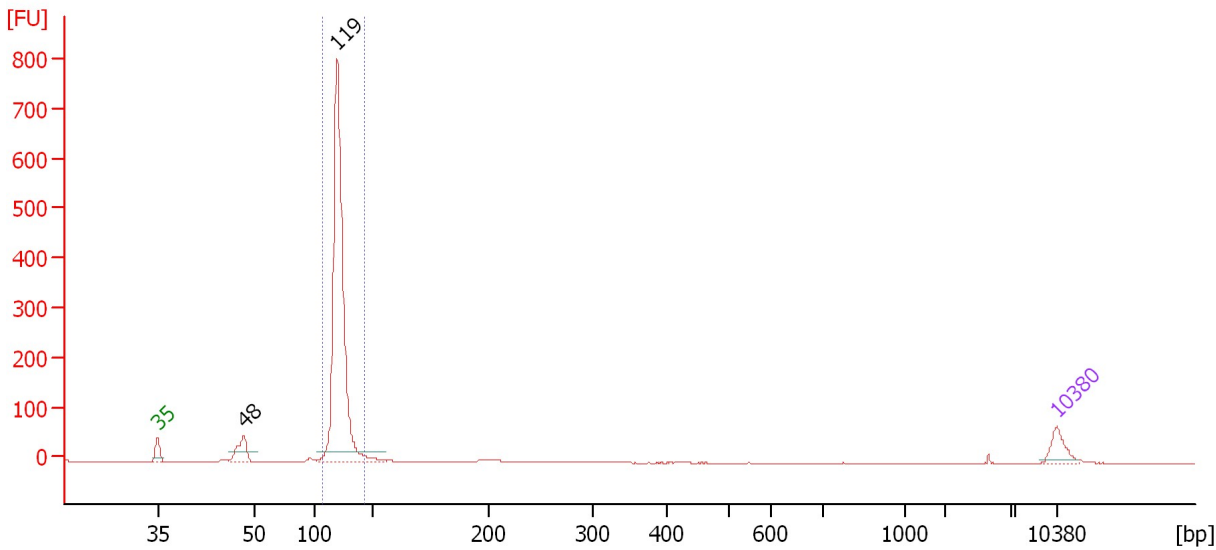
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
110	149	125	66,823.5	5,513.12	593.8	87	2.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 PM

Electropherogram Summary Continued ...

3 ip sRNA L-1



Setpoint Deviations for sample 11 : 3 ip sRNA L-1

Height Threshold [FU] : 20

Overall Results for sample 11 : 3 ip sRNA L-1

Number of peaks found: 2 Corr. Area 1: 1,206.1
 Noise: 0.2

Peak table for sample 11 : 3 ip sRNA L-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	172.72	5,417.8	
3	119	2,300.69	29,184.0	
4	10,380	75.00	10.9	Upper Marker

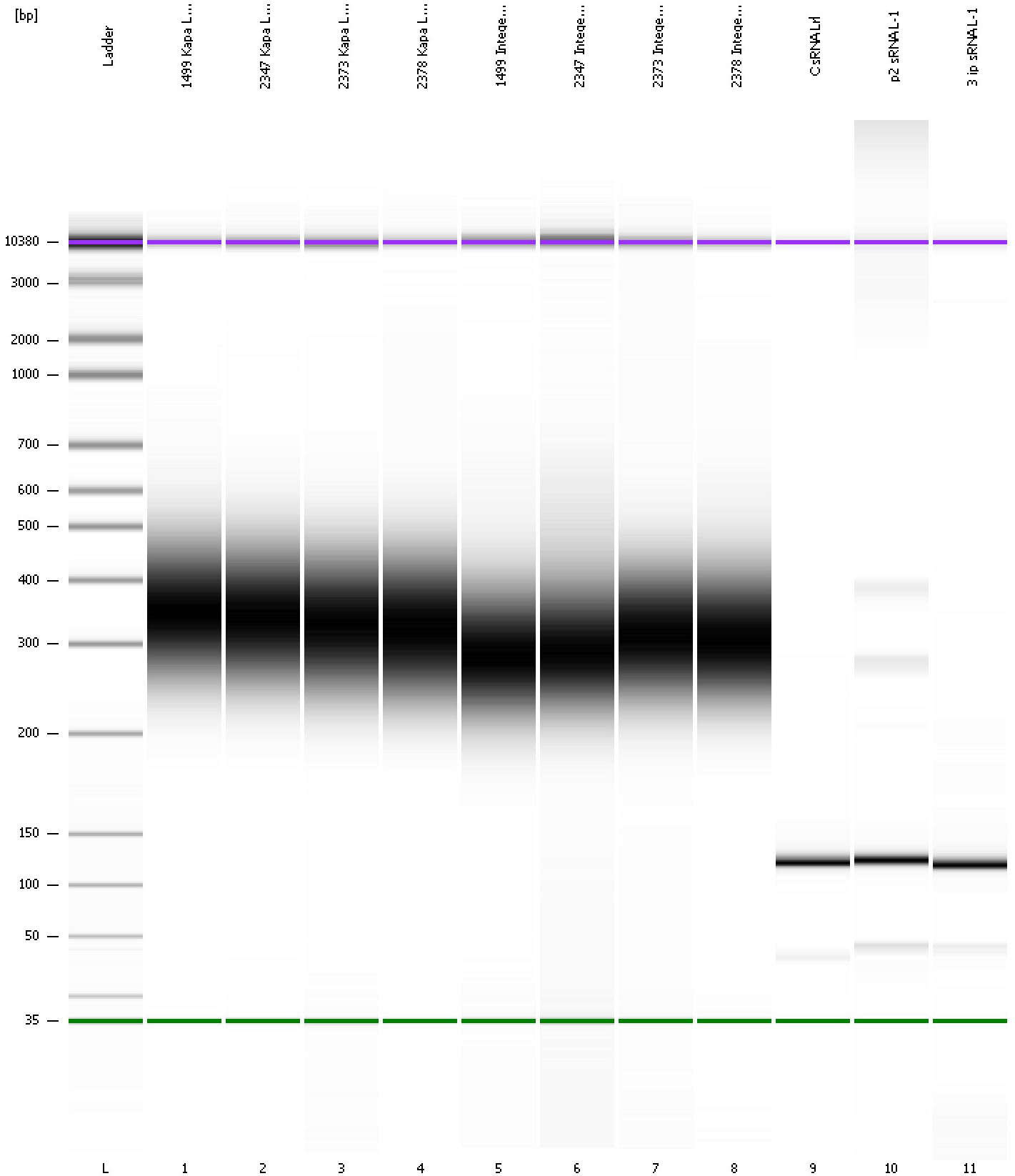
Region table for sample 11 : 3 ip sRNA L-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
106	142	121	27,319.3	2,182.97	1,206.1	92	3.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
Modified: 5/22/2013 2:07:55 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad

Created: 5/22/2013 1:25:02 PM
 Modified: 5/22/2013 2:07:55 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		5/22/2013 2:06:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-22\2013-05-22_002.xad)		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/22/2013 1:25:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1