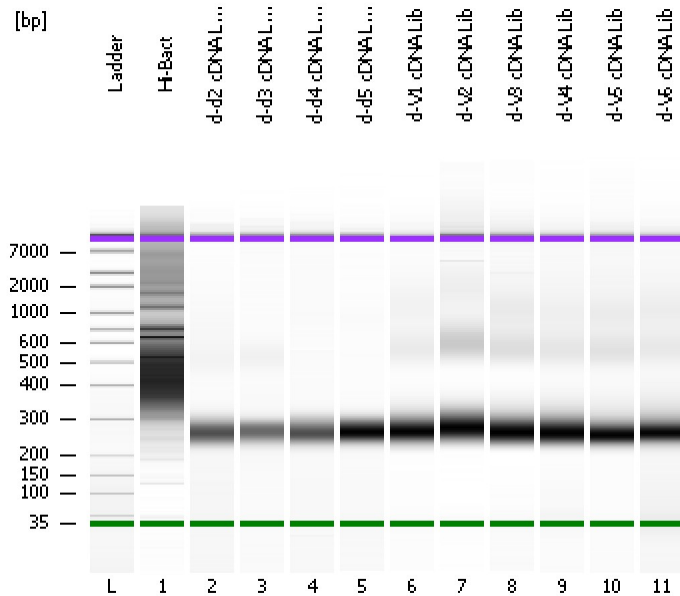


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
Modified: 2/28/2013 3:45:54 PM

Electrophoresis File Run Summary



Instrument Information:

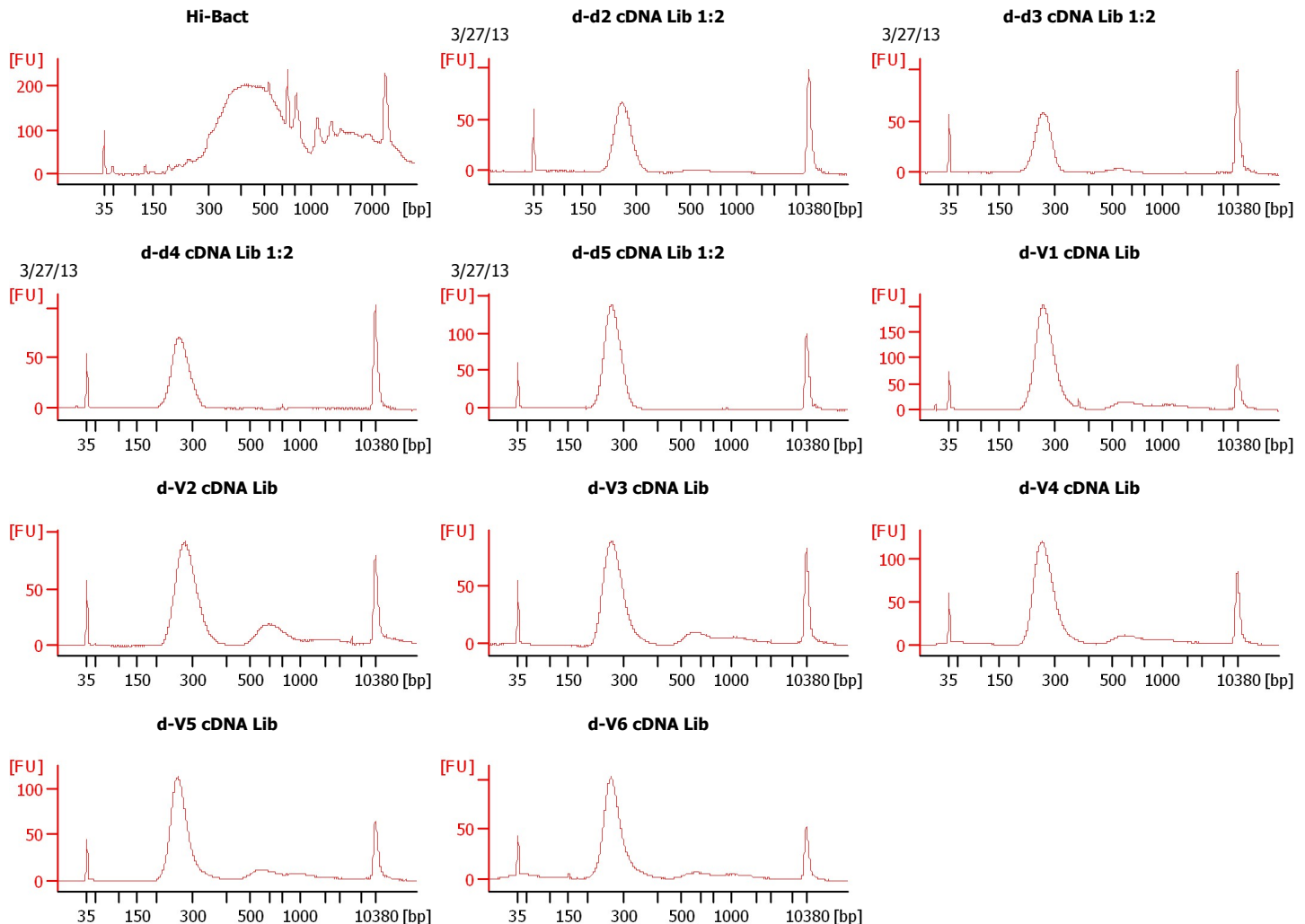
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Hi-Bact		<input type="checkbox"/>				
d-d2 cDNA Lib 1:2	3/27/13	<input type="checkbox"/>				
d-d3 cDNA Lib 1:2	3/27/13	<input type="checkbox"/>				
d-d4 cDNA Lib 1:2	3/27/13	<input type="checkbox"/>				
d-d5 cDNA Lib 1:2	3/27/13	<input type="checkbox"/>				
d-V1 cDNA Lib		<input type="checkbox"/>				
d-V2 cDNA Lib		<input type="checkbox"/>				
d-V3 cDNA Lib		<input type="checkbox"/>				
d-V4 cDNA Lib		<input type="checkbox"/>				
d-V5 cDNA Lib		<input type="checkbox"/>				
d-V6 cDNA Lib		<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\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
Modified: 2/28/2013 3:45:54 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

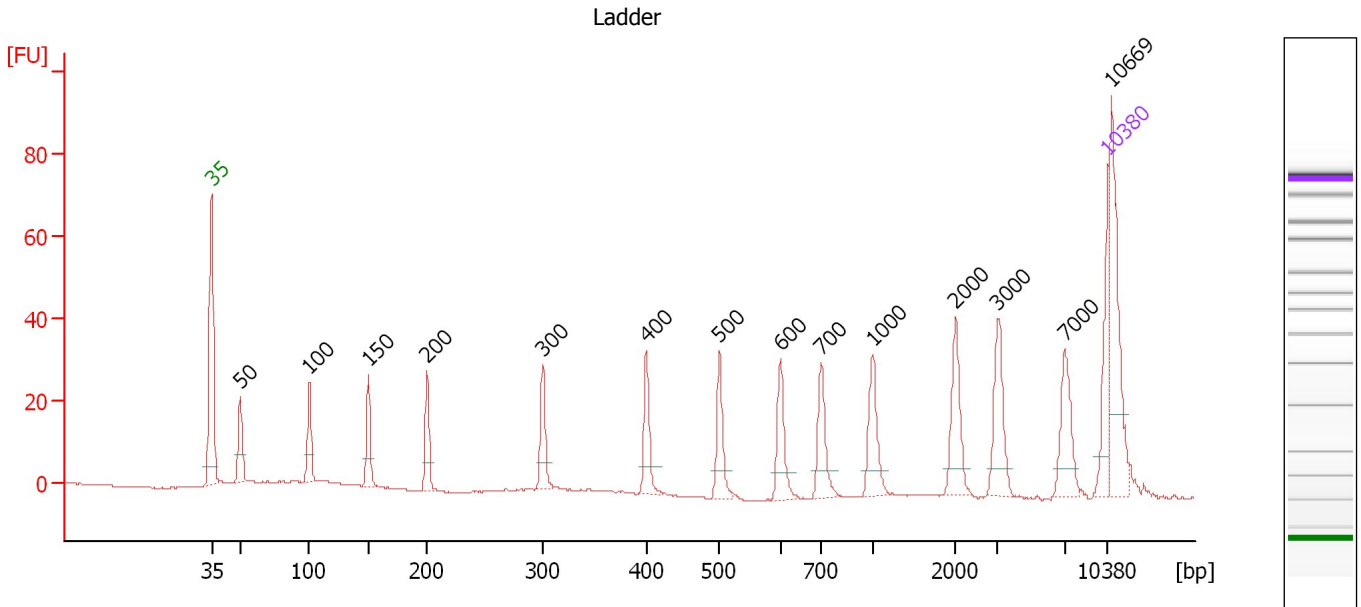
Ladder

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:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

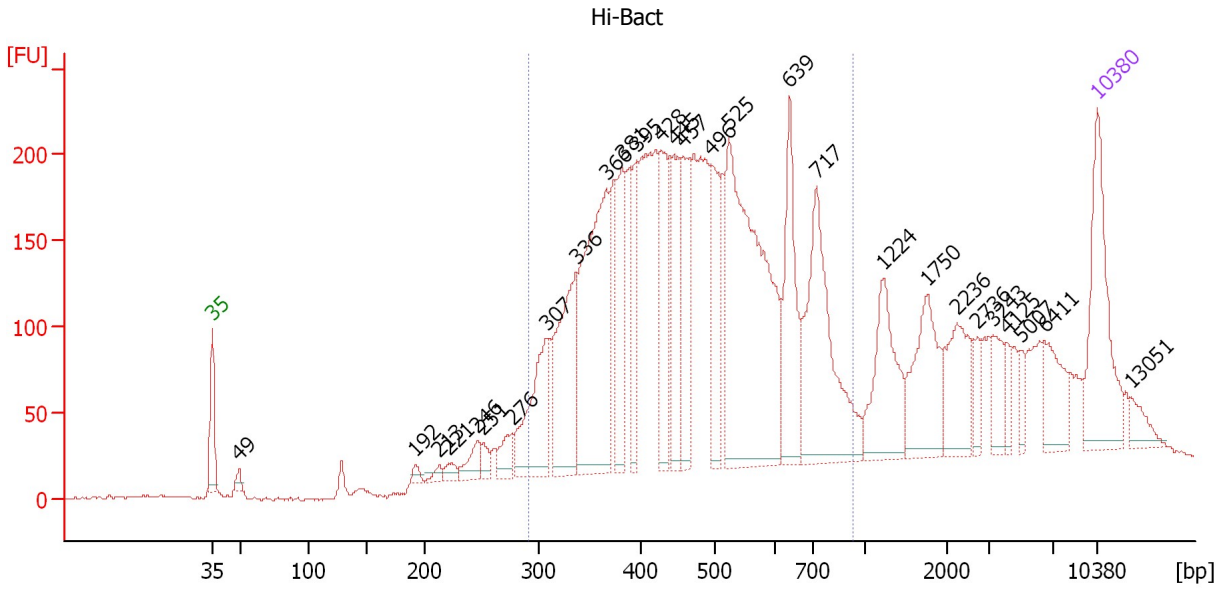
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
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
16	10,669	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Hi-Bact

Number of peaks found: 28 Corr. Area 1: 4,697.2
 Noise: 0.8

Peak table for sample 1 : Hi-Bact

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	7.58	234.2	
3	192	5.53	43.7	
4	213	5.91	42.1	
5	221	8.39	57.5	
6	246	18.90	116.3	
7	251	10.48	63.3	
8	276	20.41	112.0	
9	307	93.73	462.3	
10	336	120.00	540.5	
11	366	207.22	858.7	
12	381	71.77	285.2	
13	395	51.52	197.4	
14	428	67.25	238.1	
15	445	65.47	223.0	
16	457	72.20	239.6	
17	496	66.90	204.2	
18	525	284.42	821.2	
19	639	84.78	201.0	
20	717	150.62	318.5	
21	1,224	69.13	85.6	
22	1,750	61.97	53.7	
23	2,236	45.82	31.0	
24	2,736	10.50	5.8	
25	3,243	19.11	8.9	
26	4,125	9.75	3.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad


Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : Hi-Bact

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,007	9.01	2.7	
28	6,411	31.68	7.5	
29	10,380	75.00	10.9	Upper Marker
30	13,051	0.00	0.0	

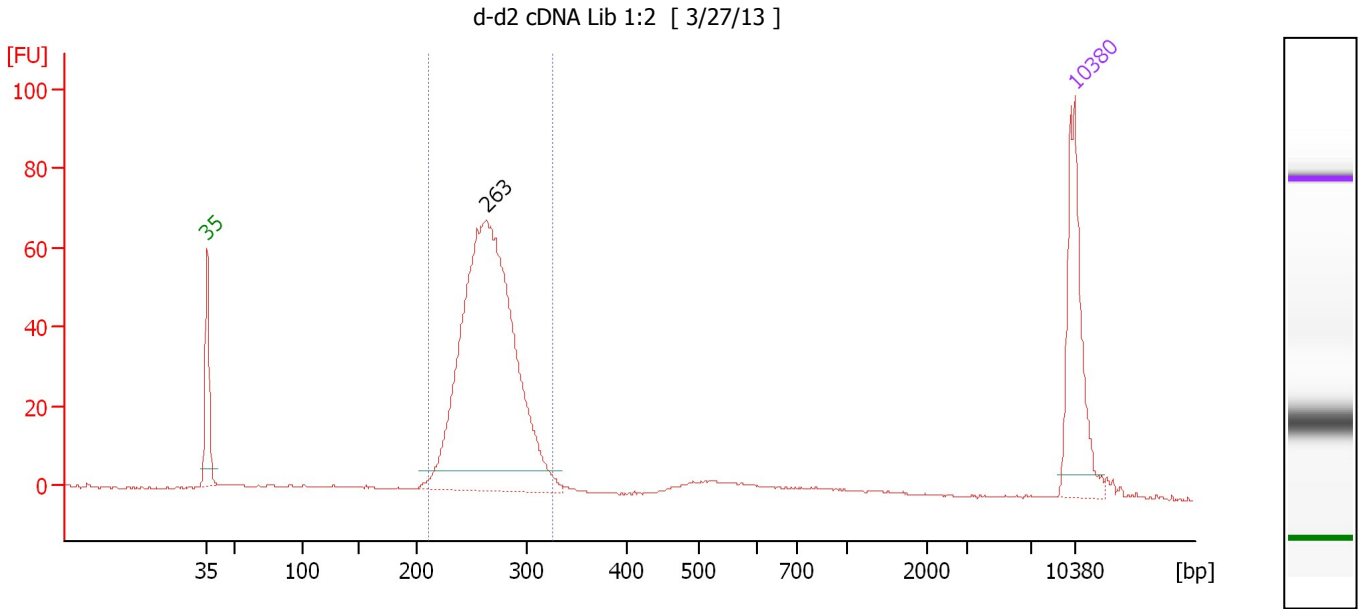
Region table for sample 1 : Hi-Bact

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
290	932	484	6,083.1	1,774.60	4,697.2	75	26.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : d-d2 cDNA Lib 1:2

Number of peaks found: 1 Corr. Area 1: 557.3
 Noise: 0.1

Peak table for sample 2 : d-d2 cDNA Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	580.19	3,342.6	
3	10,380	75.00	10.9	Upper Marker

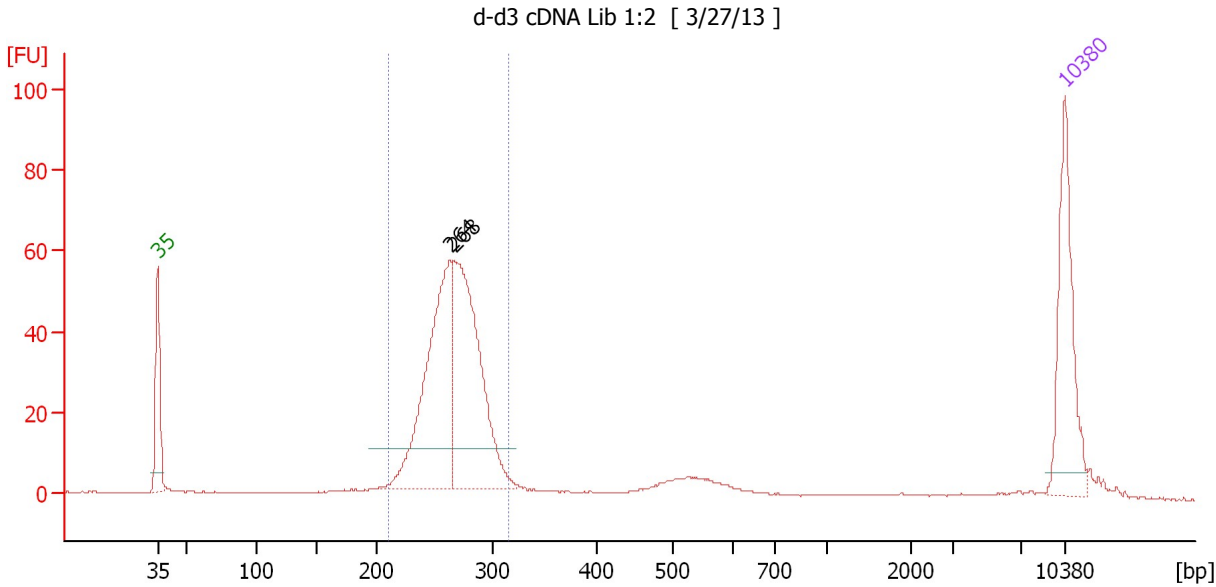
Region table for sample 2 : d-d2 cDNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
212	324	265	3,295.3	575.83	557.3	87	8.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : d-d3 cDNA Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 3 : d-d3 cDNA Lib 1:2

Number of peaks found: 2 Corr. Area 1: 445.1
 Noise: 0.1

Peak table for sample 3 : d-d3 cDNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	231.86	1,332.6	
3	268	235.56	1,334.2	
4	10,380	75.00	10.9	Upper Marker

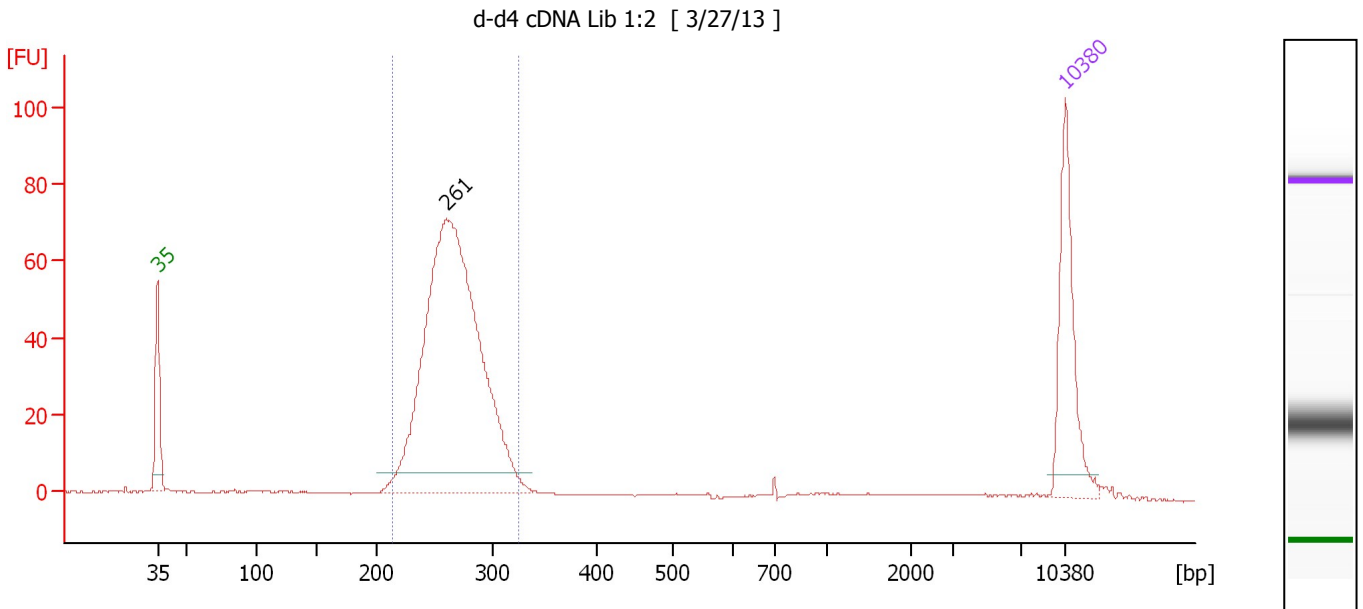
Region table for sample 3 : d-d3 cDNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
212	315	266	2,819.9	494.37	445.1	78	7.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : d-d4 cDNA Lib 1:2

Number of peaks found: 1 Corr. Area 1: 571.5
 Noise: 0.1

Peak table for sample 4 : d-d4 cDNA Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	623.13	3,618.5	
3	10,380	75.00	10.9	Upper Marker

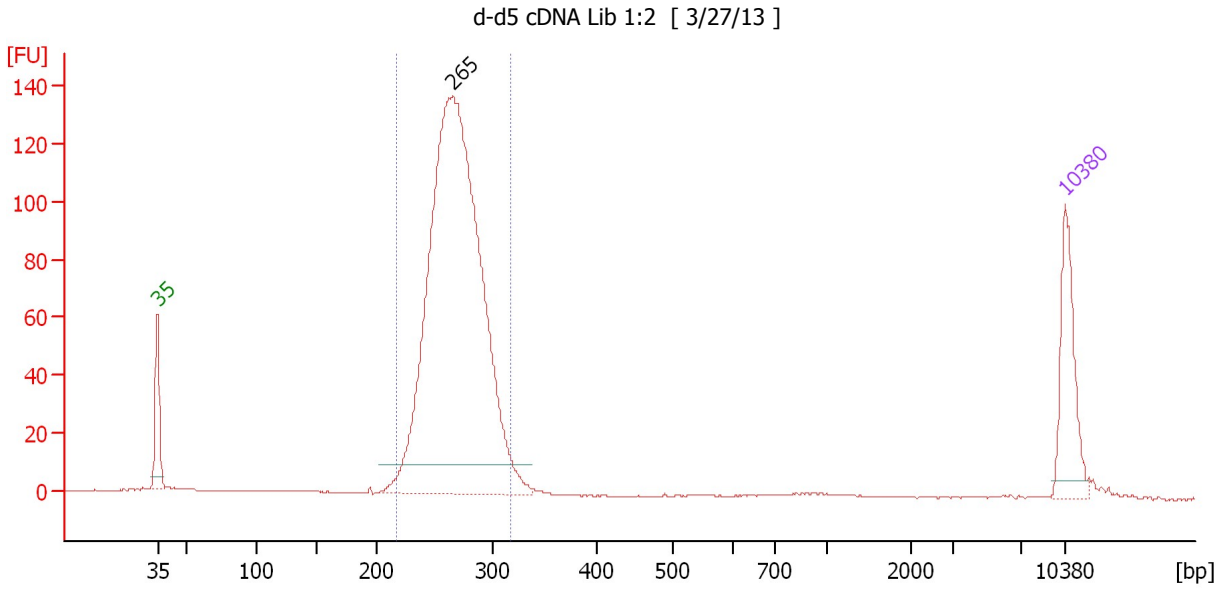
Region table for sample 4 : d-d4 cDNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
215	325	267	3,533.4	620.48	571.5	87	8.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : d-d5 cDNA Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 5 : d-d5 cDNA Lib 1:2

Number of peaks found: 1 Corr. Area 1: 1,017.4
 Noise: 0.2

Peak table for sample 5 : d-d5 cDNA Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	1,161.54	6,629.9	
3	10,380	75.00	10.9	Upper Marker

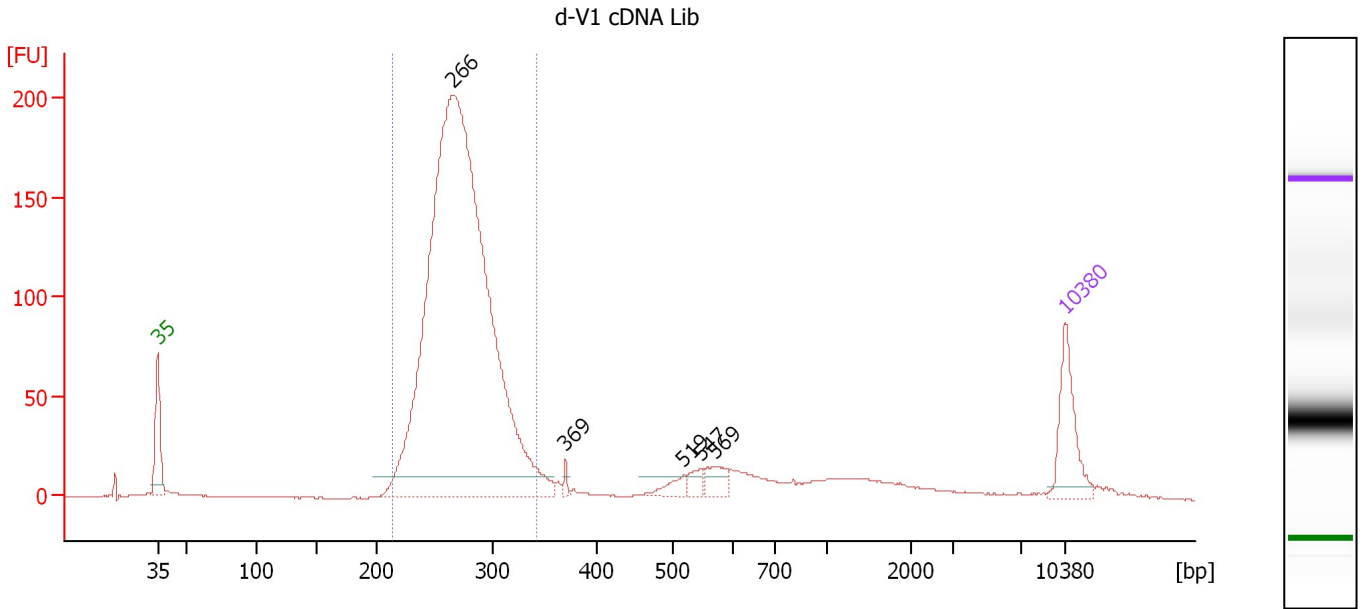
Region table for sample 5 : d-d5 cDNA Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
217	318	268	6,433.4	1,136.56	1,017.4	93	7.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : d-V1 cDNA Lib

Height Threshold [FU] : 10

Overall Results for sample 6 : d-V1 cDNA Lib

Number of peaks found: 5 Corr. Area 1: 1,668.0
 Noise: 0.1

Peak table for sample 6 : d-V1 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	2,000.65	11,393.7	
3	369	7.82	32.1	
4	519	20.91	61.1	
5	547	18.14	50.3	
6	569	31.82	84.8	
7	10,380	75.00	10.9	Upper Marker

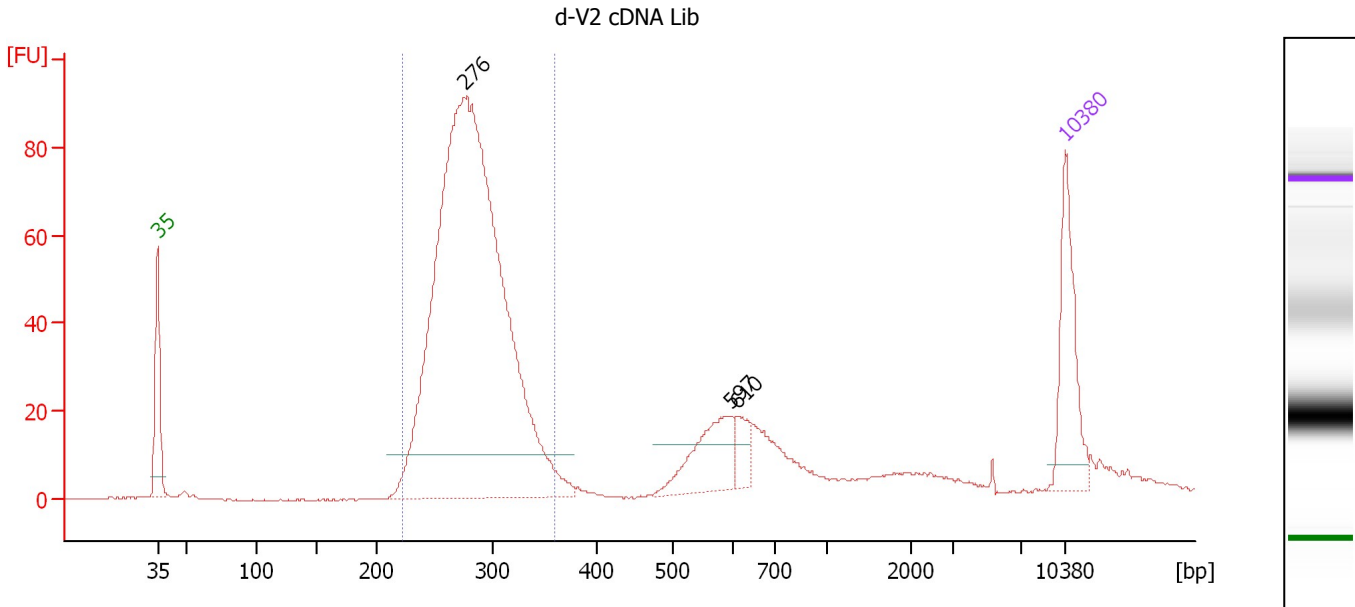
Region table for sample 6 : d-V1 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
215	342	272	10,876.4	1,944.66	1,668.0	83	8.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : d-V2 cDNA Lib

Height Threshold [FU] : 10

Overall Results for sample 7 : d-V2 cDNA Lib

Number of peaks found: 3 Corr. Area 1: 839.5
 Noise: 0.2

Peak table for sample 7 : d-V2 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	276	1,196.09	6,577.8	
3	597	76.04	193.0	
4	610	23.48	58.3	
5	10,380	75.00	10.9	Upper Marker

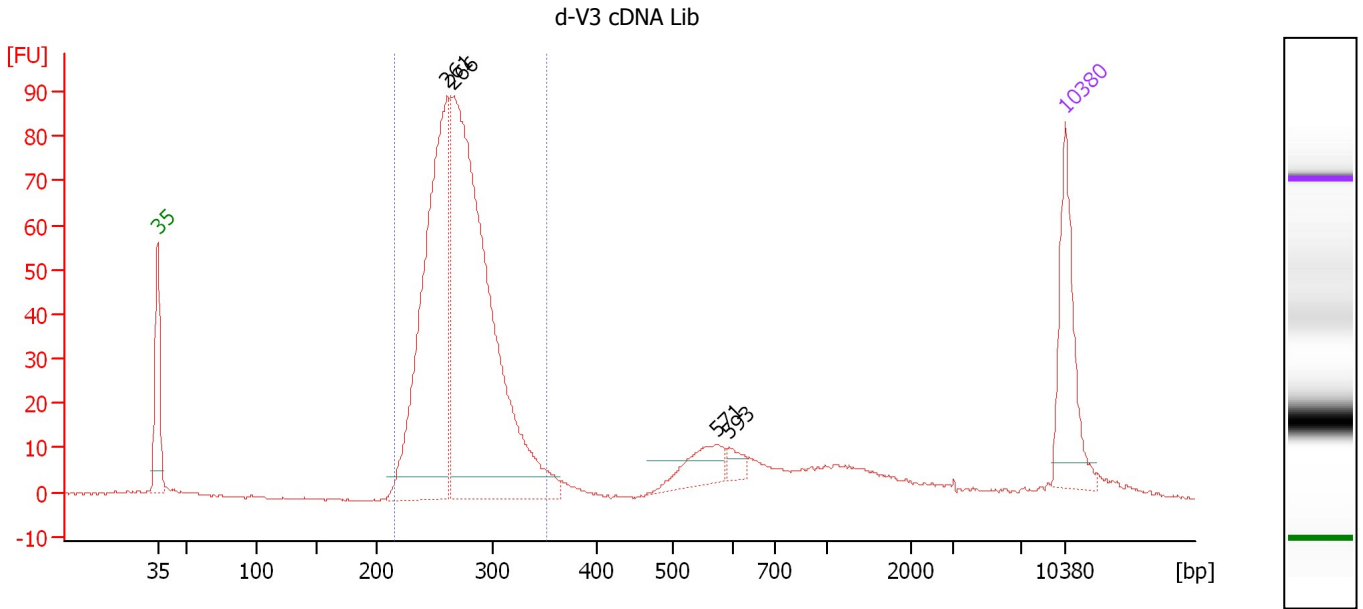
Region table for sample 7 : d-V2 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
223	359	282	6,273.4	1,159.73	839.5	75	9.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : d-V3 cDNA Lib

Number of peaks found: 4 Corr. Area 1: 781.3
 Noise: 0.2

Peak table for sample 8 : d-V3 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	424.50	2,463.9	
3	266	647.02	3,681.5	
4	571	40.56	107.6	
5	593	12.39	31.6	
6	10,380	75.00	10.9	Upper Marker

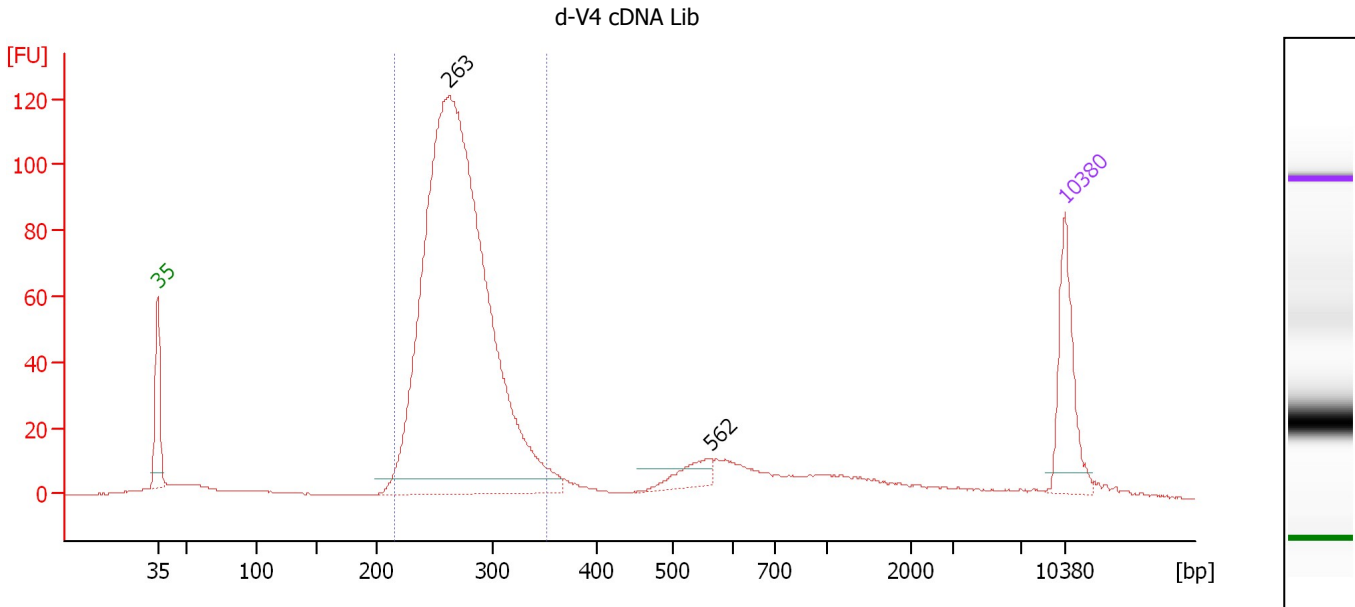
Region table for sample 8 : d-V3 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
216	351	272	5,831.5	1,041.38	781.3	79	9.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : d-V4 cDNA Lib

Number of peaks found: 2 Corr. Area 1: 1,067.3
 Noise: 0.2

Peak table for sample 9 : d-V4 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	1,399.94	8,073.5	
3	562	30.46	82.1	
4	10,380	75.00	10.9	Upper Marker

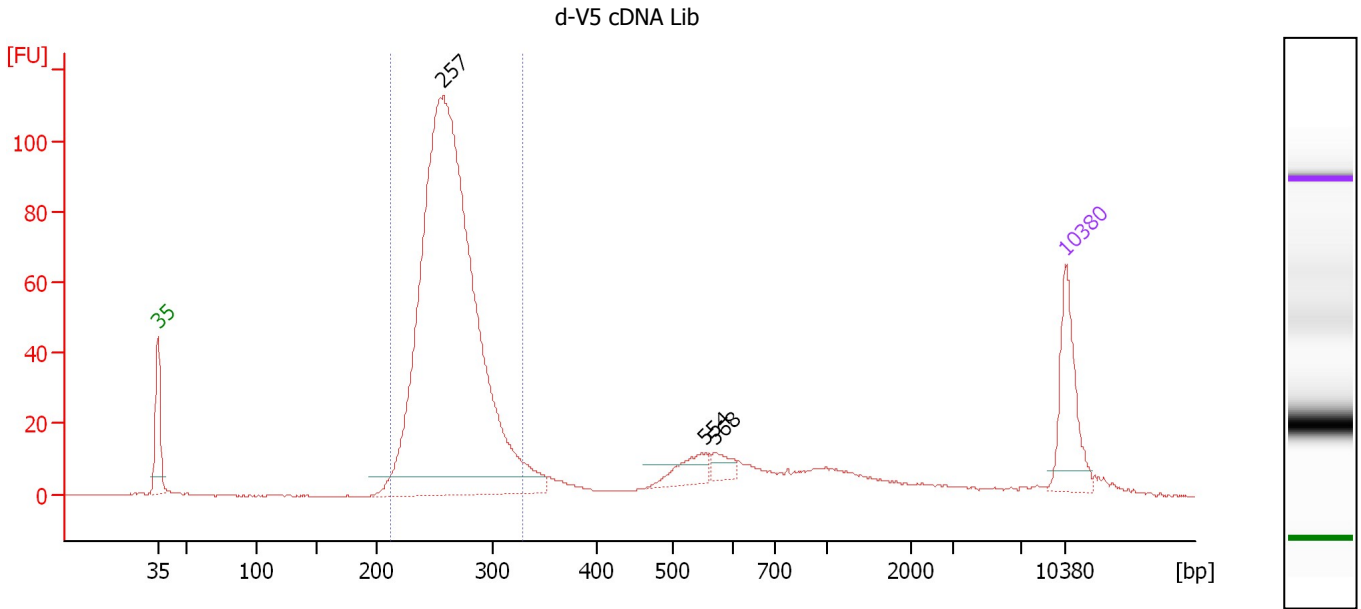
Region table for sample 9 : d-V4 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
216	352	272	7,661.9	1,363.92	1,067.3	78	9.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : d-V5 cDNA Lib

Number of peaks found: 3 Corr. Area 1: 839.4
 Noise: 0.1

Peak table for sample 10 : d-V5 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	257	1,354.63	7,971.7	
3	554	37.13	101.5	
4	568	20.09	53.6	
5	10,380	75.00	10.9	Upper Marker

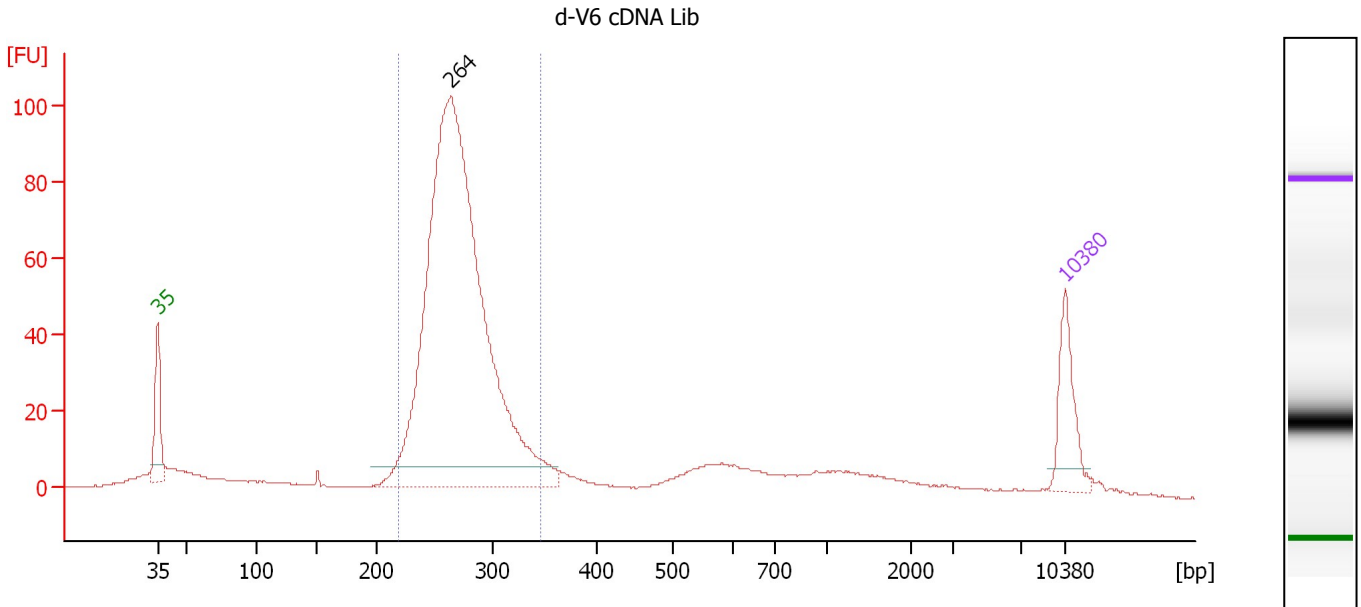
Region table for sample 10 : d-V5 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	329	264	7,584.8	1,316.55	839.4	74	8.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : d-V6 cDNA Lib

Number of peaks found: 1 Corr. Area 1: 775.2
 Noise: 0.2

Peak table for sample 11 : d-V6 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	1,593.15	9,150.9	
3	10,380	75.00	10.9	Upper Marker

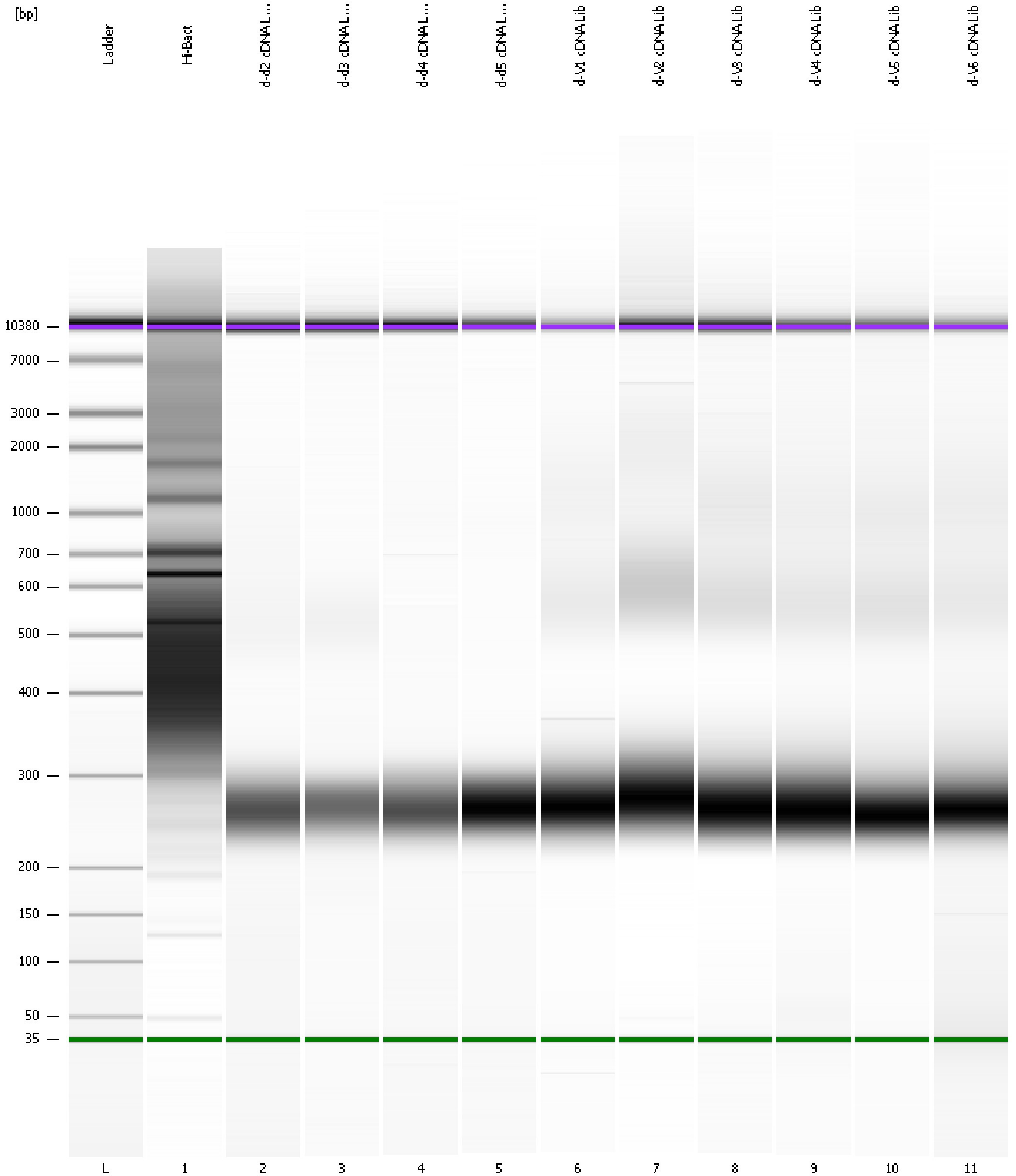
Region table for sample 11 : d-V6 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
220	346	271	8,821.2	1,570.38	775.2	72	9.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
Modified: 2/28/2013 3:45:54 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:45:54 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		2/28/2013 3:41:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad)		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/28/2013 3:00:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1