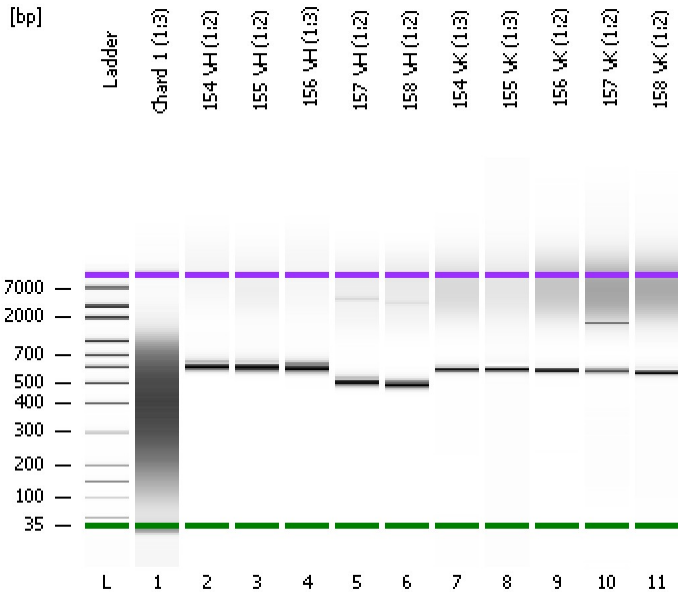


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
Modified: 7/2/2014 3:44:50 PM

Electrophoresis File Run Summary



Instrument Information:

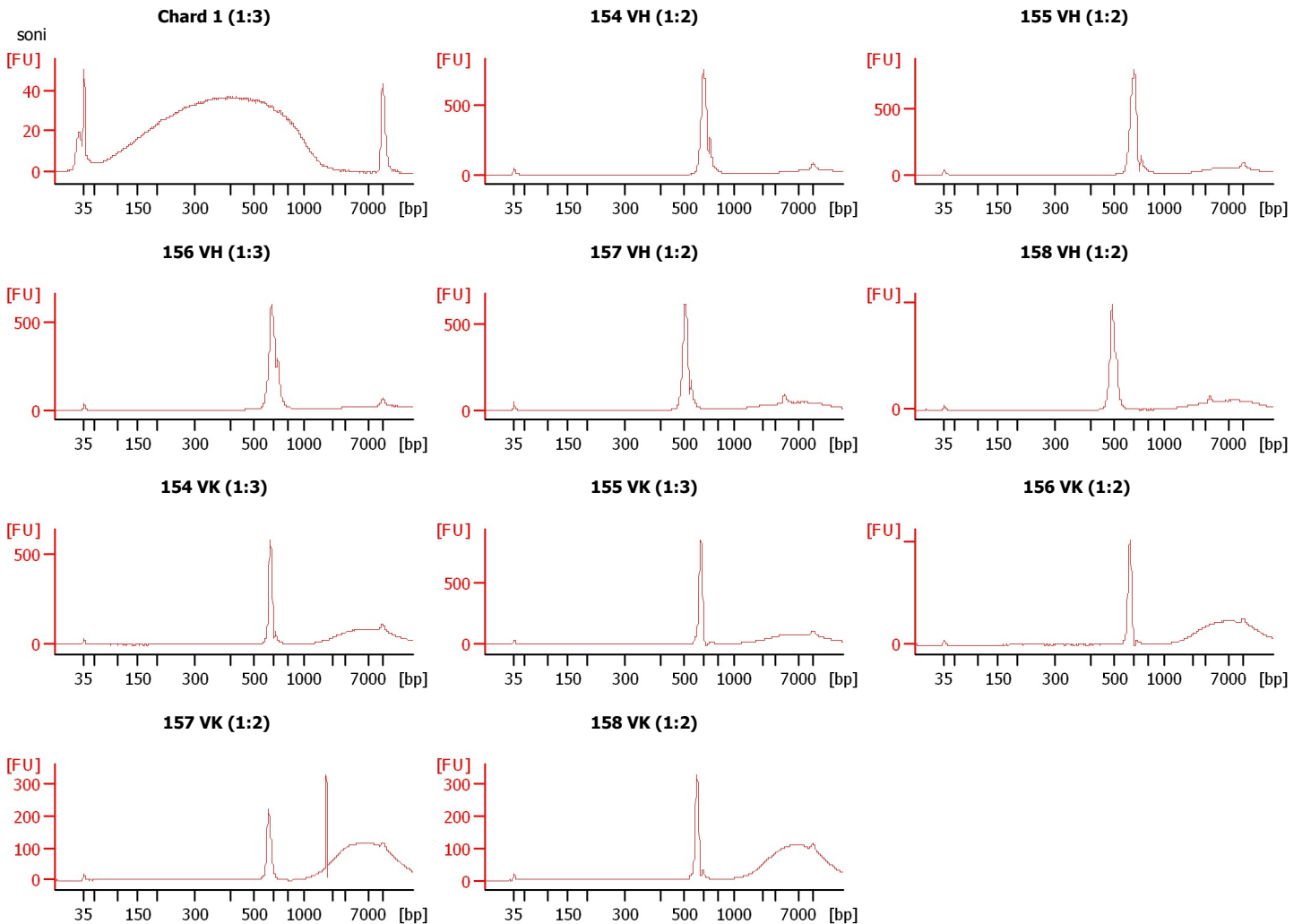
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Chard 1 (1:3)	soni	<input type="checkbox"/>	✓			
154 VH (1:2)		<input type="checkbox"/>	✓			
155 VH (1:2)		<input type="checkbox"/>	✓			
156 VH (1:3)		<input type="checkbox"/>	✓			
157 VH (1:2)		<input type="checkbox"/>	✓			
158 VH (1:2)		<input type="checkbox"/>	✓			
154 VK (1:3)		<input type="checkbox"/>	✓			
155 VK (1:3)		<input type="checkbox"/>	✓			
156 VK (1:2)		<input type="checkbox"/>	✓			
157 VK (1:2)		<input type="checkbox"/>	✓			
158 VK (1:2)		<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\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
Modified: 7/2/2014 3:44:50 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

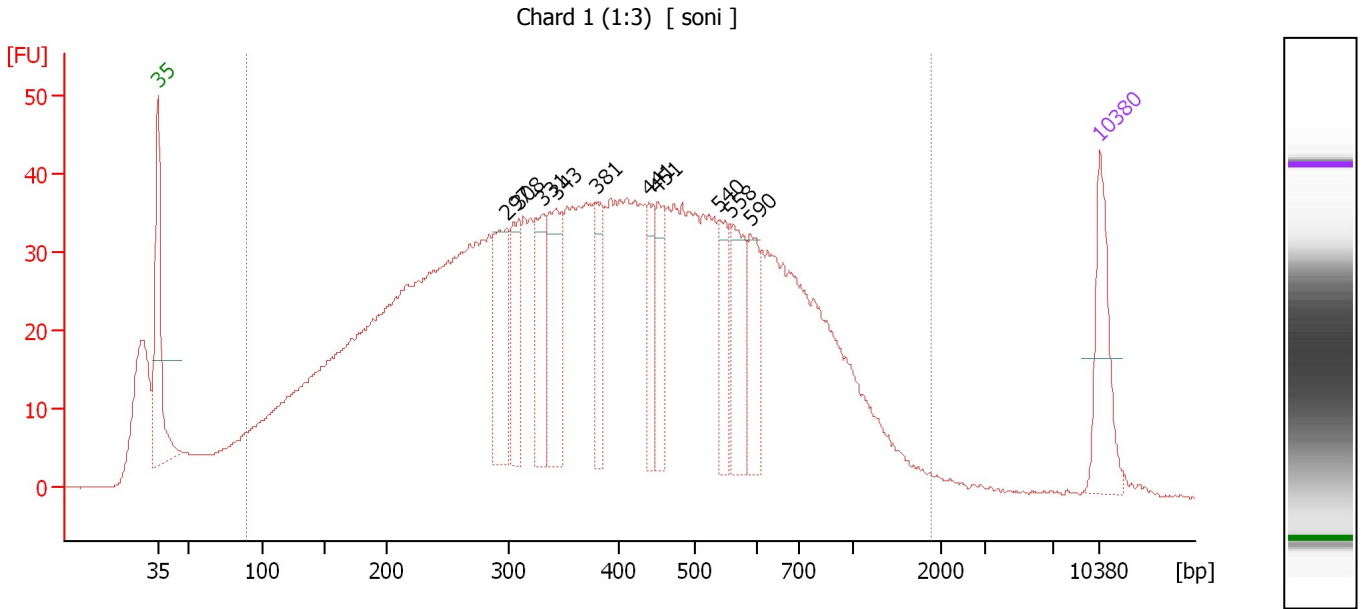
Ladder

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\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
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Electropherogram Summary



Setpoint Deviations for sample 1 : Chard 1 (1:3)

Height Threshold [FU] : 30

Overall Results for sample 1 : Chard 1 (1:3)

Number of peaks found: 10 Corr. Area 1: 1,814.6
 Noise: 0.1

Peak table for sample 1 : Chard 1 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	148.99	759.0	
3	308	94.66	465.4	
4	331	97.86	448.0	
5	343	129.77	573.8	
6	381	77.14	307.0	
7	441	62.25	214.1	
8	451	71.15	238.8	
9	540	69.31	194.6	
10	558	99.57	270.4	
11	590	70.83	181.9	
12	10,380	75.00	10.9	Upper Marker

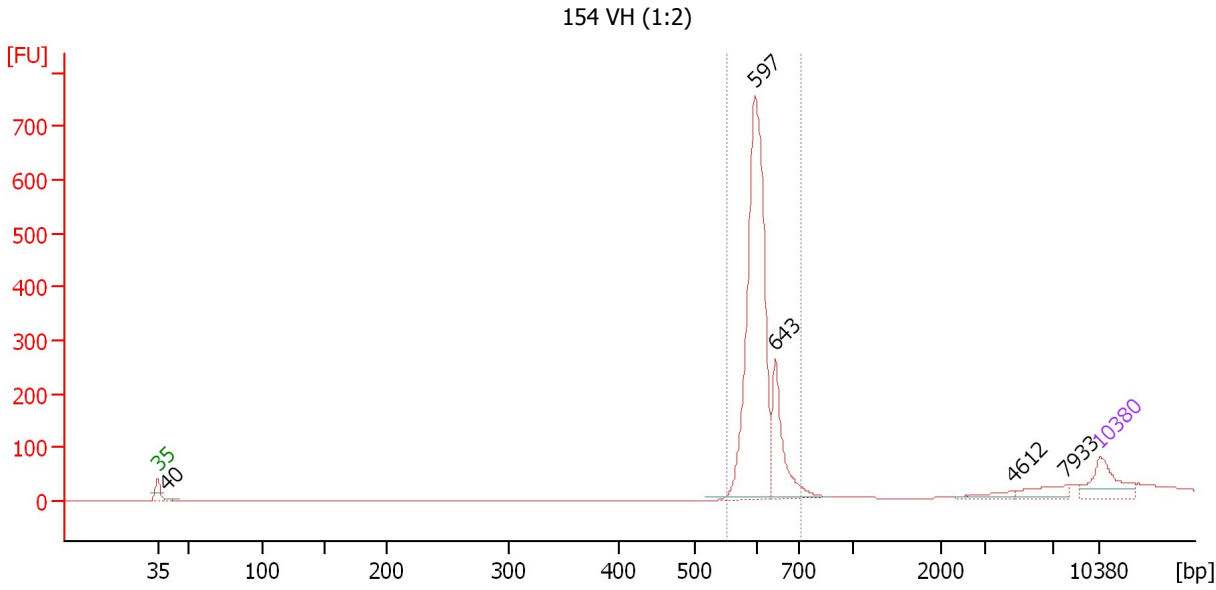
Region table for sample 1 : Chard 1 (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
89	1,900	433	25,231.1	4,641.81	1,814.6	93	58.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 154 VH (1:2)

Number of peaks found: 5 Corr. Area 1: 1,556.0
 Noise: 0.1

Peak table for sample 2 : 154 VH (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	7.65	292.4	
3	597	768.43	1,949.9	
4	643	169.18	399.0	
5	4,612	18.14	6.0	
6	7,933	37.35	7.1	
7	10,380	75.00	10.9	Upper Marker

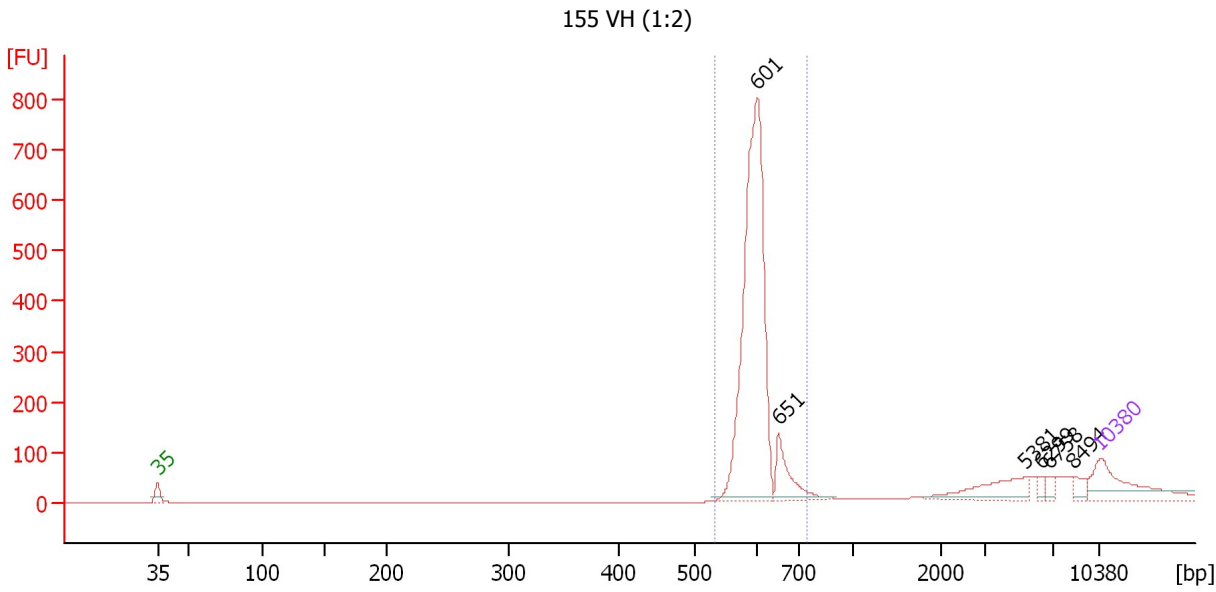
Region table for sample 2 : 154 VH (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
552	712	609	2,346.3	941.83	1,556.0	79	4.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 155 VH (1:2)

Number of peaks found: 6 Corr. Area 1: 1,767.5
 Noise: 0.2

Peak table for sample 3 : 155 VH (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	601	553.42	1,394.4	
3	651	58.14	135.4	
4	5,381	52.05	14.7	
5	6,299	8.09	1.9	
6	6,758	9.37	2.1	
7	8,494	11.25	2.0	
8	10,380	75.00	10.9	Upper Marker

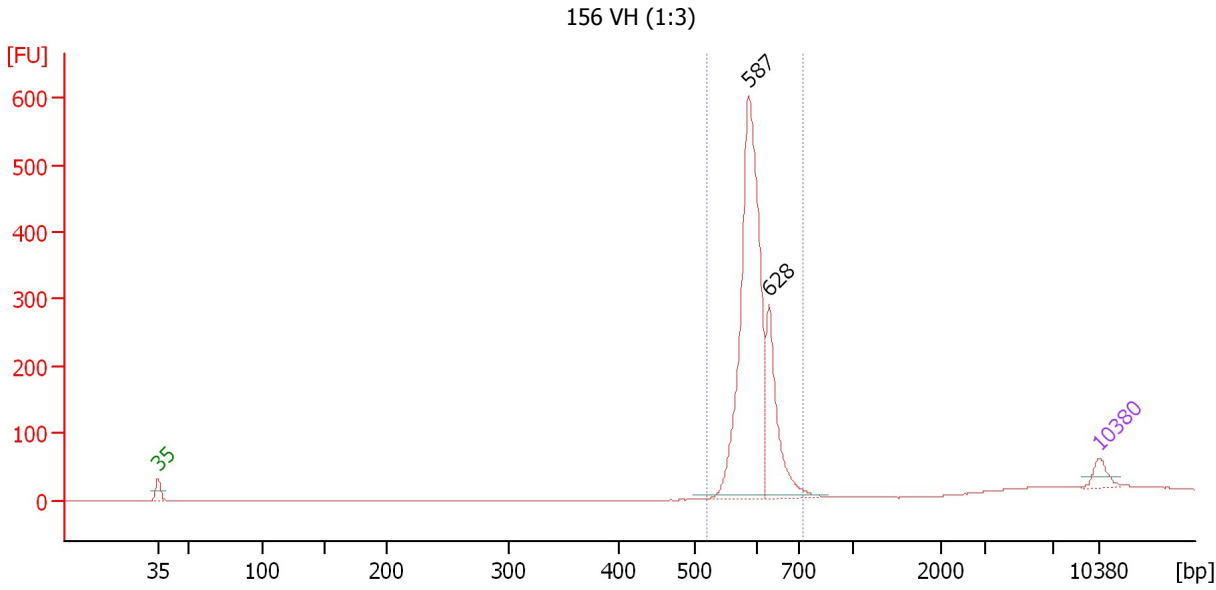
Region table for sample 3 : 155 VH (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
534	740	602	1,581.6	627.40	1,767.5	76	4.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 156 VH (1:3)

Number of peaks found: 2 Corr. Area 1: 1,456.8
 Noise: 0.2

Peak table for sample 4 : 156 VH (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	587	2,287.36	5,901.1	
3	628	644.36	1,553.6	
4	10,380	75.00	10.9	Upper Marker

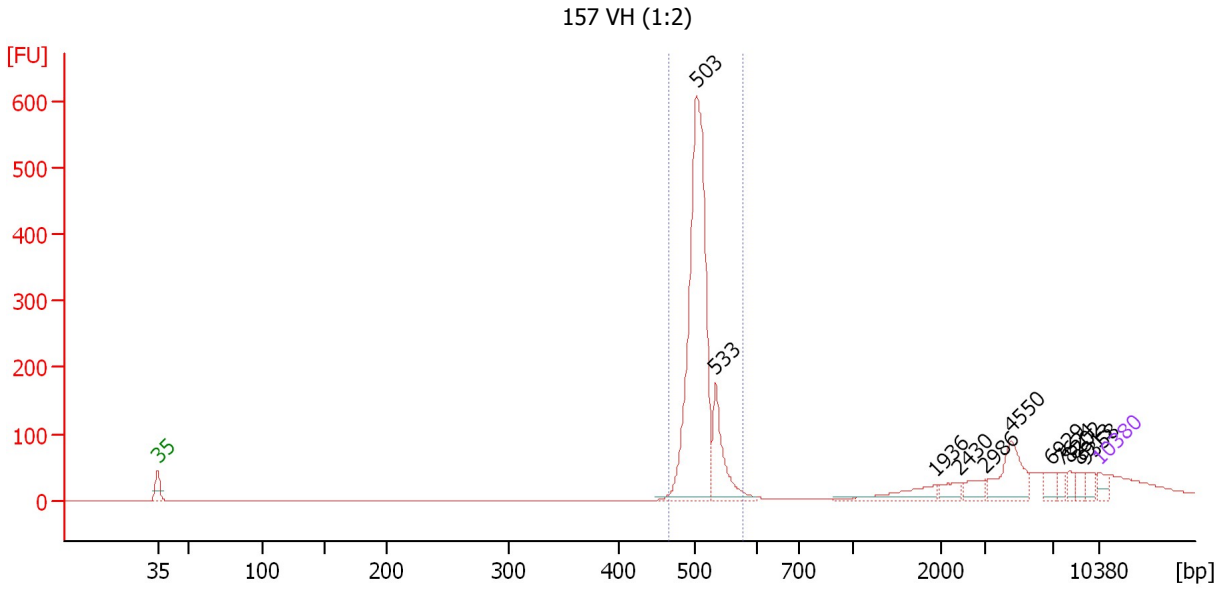
Region table for sample 4 : 156 VH (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
520	726	601	7,492.7	2,964.00	1,456.8	79	4.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 157 VH (1:2)

Number of peaks found: 11 Corr. Area 1: 1,272.0
 Noise: 0.2

Peak table for sample 5 : 157 VH (1:2)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	503	3,178.84	9,582.8	
3	533	545.35	1,549.1	
4	1,936	176.94	138.4	
5	2,430	94.42	58.9	
6	2,986	105.77	53.7	
7	4,550	360.81	120.1	
8	6,929	88.80	19.4	
9	7,624	51.97	10.3	
10	8,202	51.30	9.5	
11	8,913	65.17	11.1	
12	9,358	63.04	10.2	
13	10,380	75.00	10.9	Upper Marker

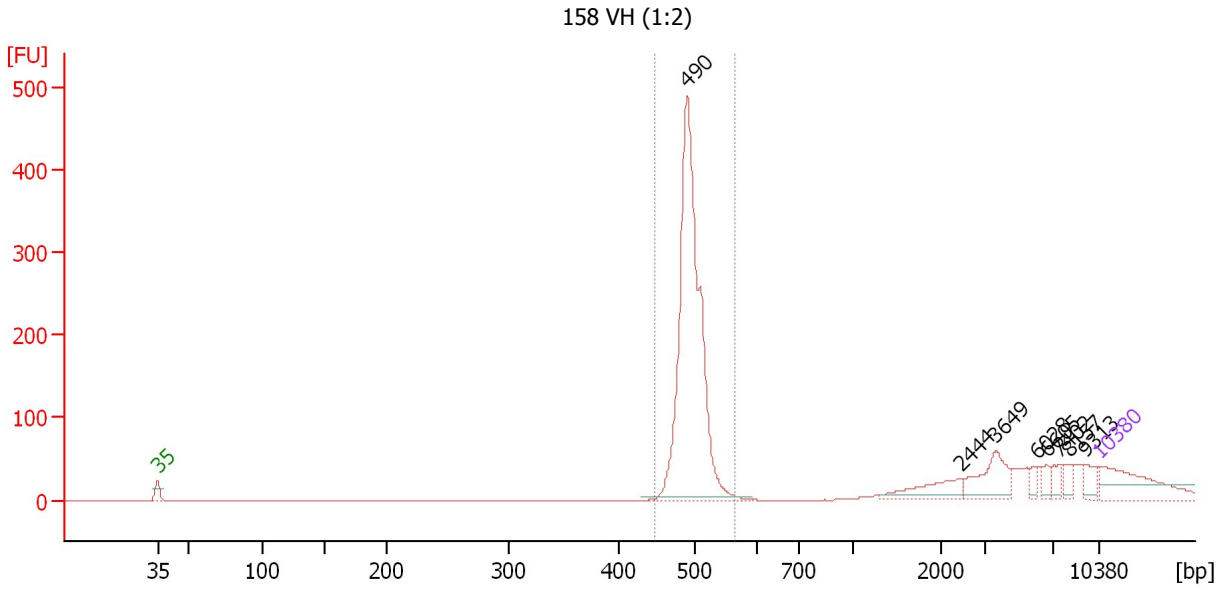
Region table for sample 5 : 157 VH (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
467	576	509	10,923.9	3,665.89	1,272.0	63	3.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 158 VH (1:2)

Number of peaks found: 8 Corr. Area 1: 1,058.1
 Noise: 0.2

Peak table for sample 6 : 158 VH (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	490	628.35	1,942.8	
3	2,444	41.52	25.7	
4	3,649	56.61	23.5	
5	6,028	10.02	2.5	
6	6,605	12.77	2.9	
7	7,402	14.38	2.9	
8	8,157	12.76	2.4	
9	9,313	16.67	2.7	
10	10,380	75.00	10.9	Upper Marker

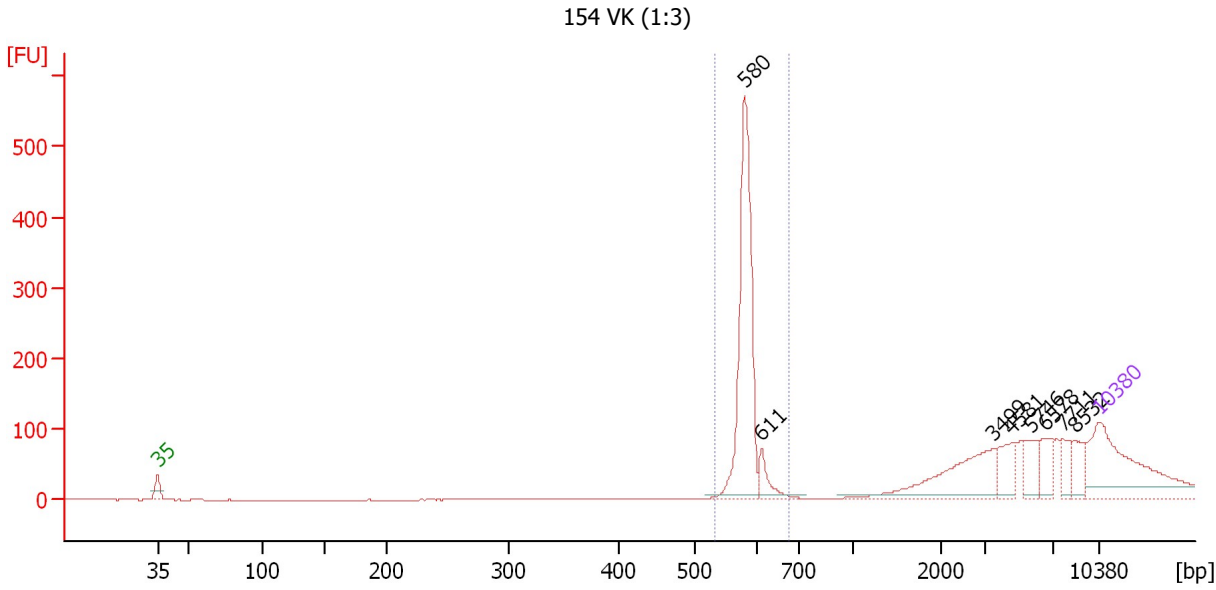
Region table for sample 6 : 158 VH (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
448	564	496	1,901.7	621.68	1,058.1	66	3.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 154 VK (1:3)

Number of peaks found: 8 Corr. Area 1: 734.8
 Noise: 0.2

Peak table for sample 7 : 154 VK (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	580	149.81	391.6	
3	611	13.96	34.6	
4	3,499	54.79	23.7	
5	4,581	17.02	5.6	
6	5,746	14.65	3.9	
7	6,578	14.90	3.4	
8	7,711	9.35	1.8	
9	8,532	12.99	2.3	
10	10,380	75.00	10.9	Upper Marker

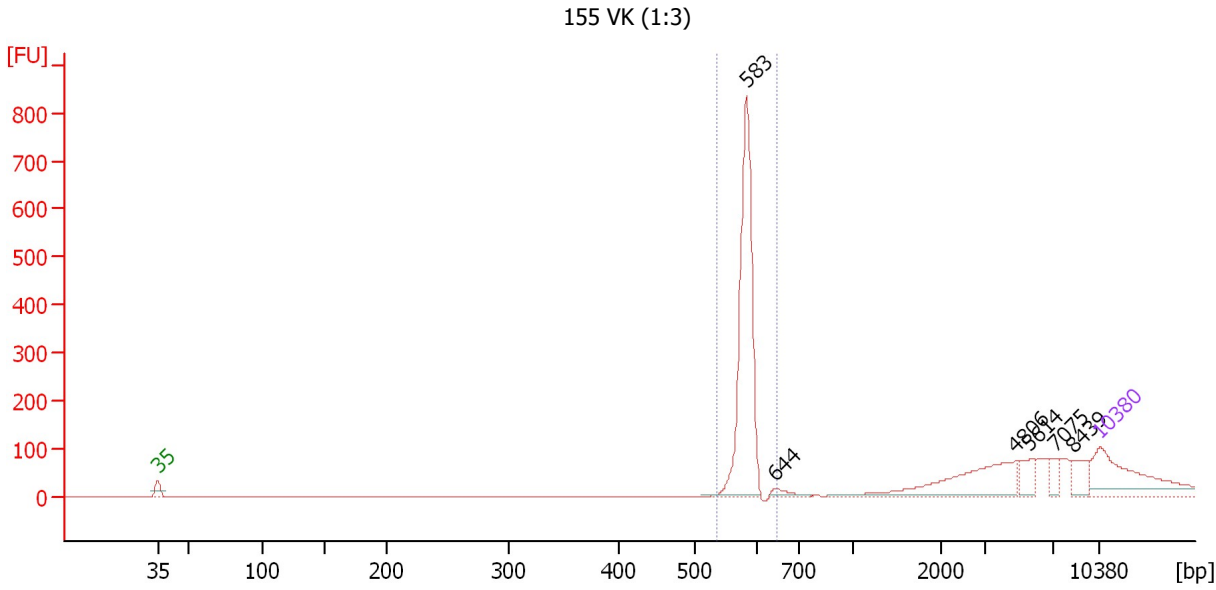
Region table for sample 7 : 154 VK (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
533	675	585	428.7	165.34	734.8	45	2.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 155 VK (1:3)

Number of peaks found: 6 Corr. Area 1: 976.0
 Noise: 0.2

Peak table for sample 8 : 155 VK (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	583	227.24	590.3	
3	644	7.45	17.5	
4	4,806	74.83	23.6	
5	5,614	15.22	4.1	
6	7,075	9.68	2.1	
7	8,439	15.75	2.8	
8	10,380	75.00	10.9	Upper Marker

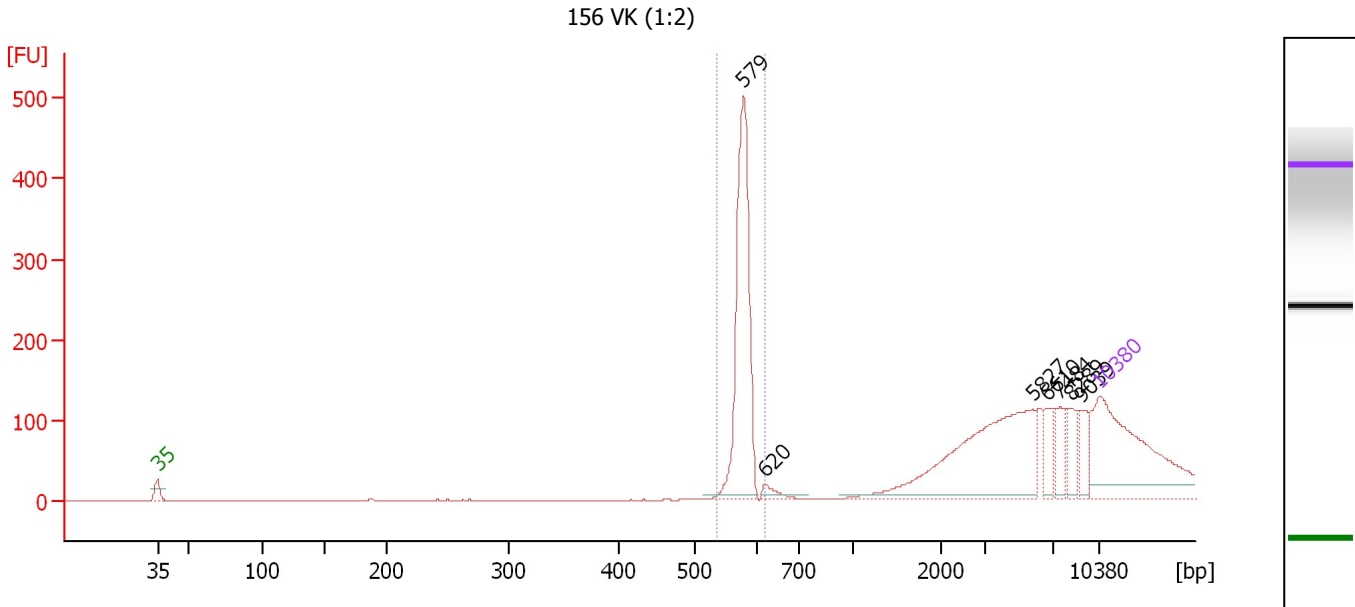
Region table for sample 8 : 155 VK (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
534	648	582	599.0	230.16	976.0	53	2.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 156 VK (1:2)

Number of peaks found: 7 Corr. Area 1: 608.1
 Noise: 0.2

Peak table for sample 9 : 156 VK (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	579	105.26	275.4	
3	620	4.42	10.8	
4	5,827	93.62	24.3	
5	6,610	11.05	2.5	
6	7,484	11.71	2.4	
7	8,289	10.56	1.9	
8	9,039	10.88	1.8	
9	10,380	75.00	10.9	Upper Marker

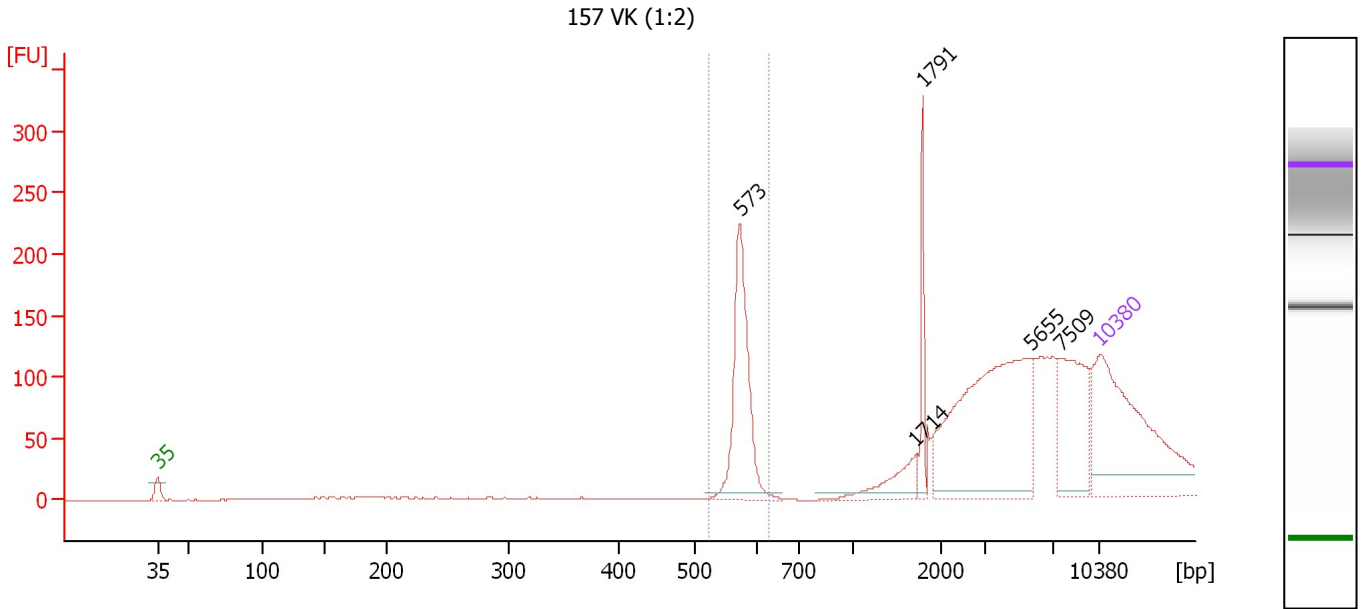
Region table for sample 9 : 156 VK (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
535	618	577	279.9	106.58	608.1	35	1.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 157 VK (1:2)

Number of peaks found: 5 Corr. Area 1: 308.2
 Noise: 0.3

Peak table for sample 10 : 157 VK (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	573	61.86	163.5	
3	1,714	13.67	12.1	
4	1,791	14.15	12.0	
5	5,655	102.53	27.5	
6	7,509	37.62	7.6	
7	10,380	75.00	10.9	Upper Marker

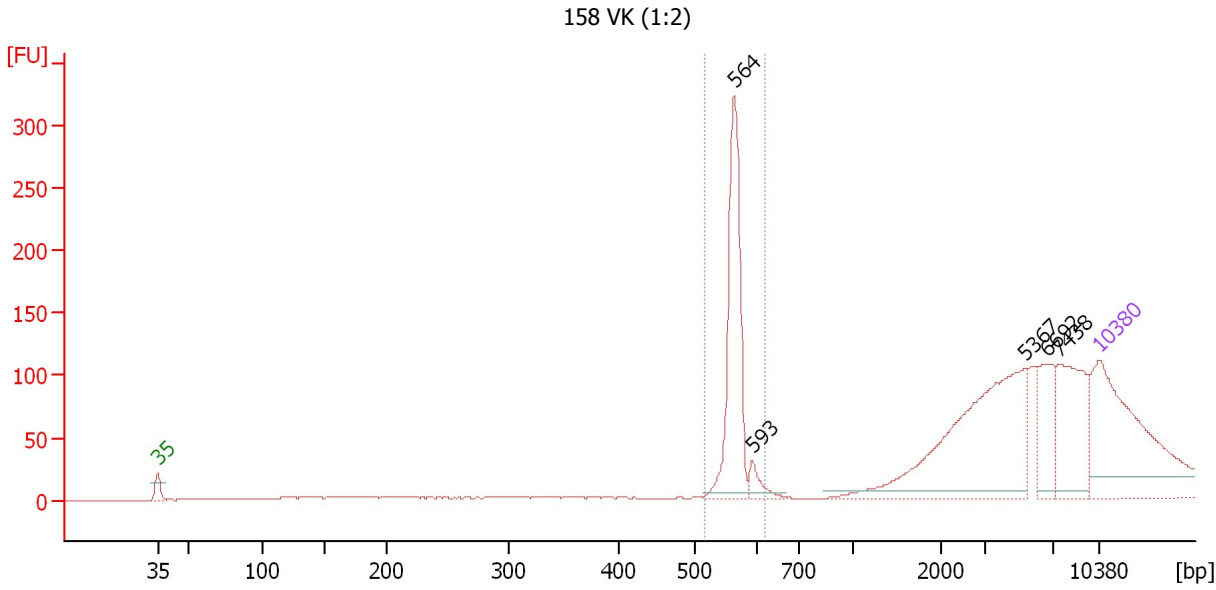
Region table for sample 10 : 157 VK (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
522	628	575	162.9	61.85	308.2	18	2.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

Created: 7/2/2014 3:01:54 PM
 Modified: 7/2/2014 3:44:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 158 VK (1:2)

Number of peaks found: 5 Corr. Area 1: 399.0
 Noise: 0.2

Peak table for sample 11 : 158 VK (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	564	78.36	210.6	
3	593	7.11	18.2	
4	5,367	98.54	27.8	
5	6,692	20.94	4.7	
6	7,438	38.53	7.8	
7	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 158 VK (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
515	620	565	230.0	85.77	399.0	24	2.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-02\2014-07-02_001.xad

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Modified: 7/2/2014 3:44:50 PM

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