

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-12-02\2016-12-02_001_gDNA_QC.xad

Created: 12/2/2016 9:41:38 AM
Modified: 12/2/2016 10:35:09 AM

Electrophoresis File Run Summary

Instrument Information:

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

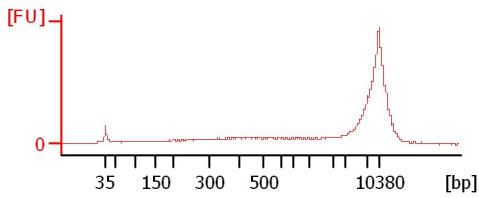
Assay Information:

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

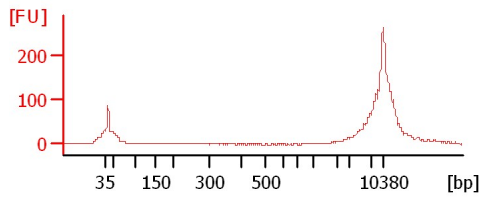
Chip Information:

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

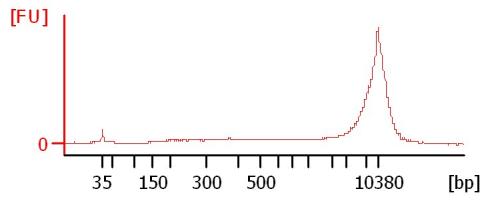
15TAL0474



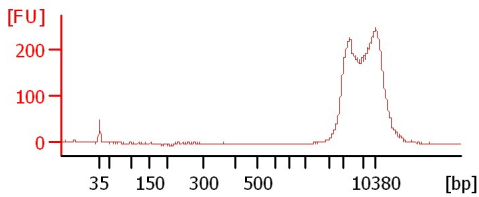
14TAL259A



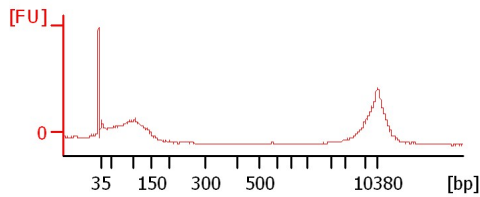
UGA21756



9711



14089A



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
15TAL0474		<input type="checkbox"/>	✓			
14TAL259A		<input type="checkbox"/>	✓			
UGA21756		<input type="checkbox"/>	✓			
9711		<input type="checkbox"/>	✓			
14089A		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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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

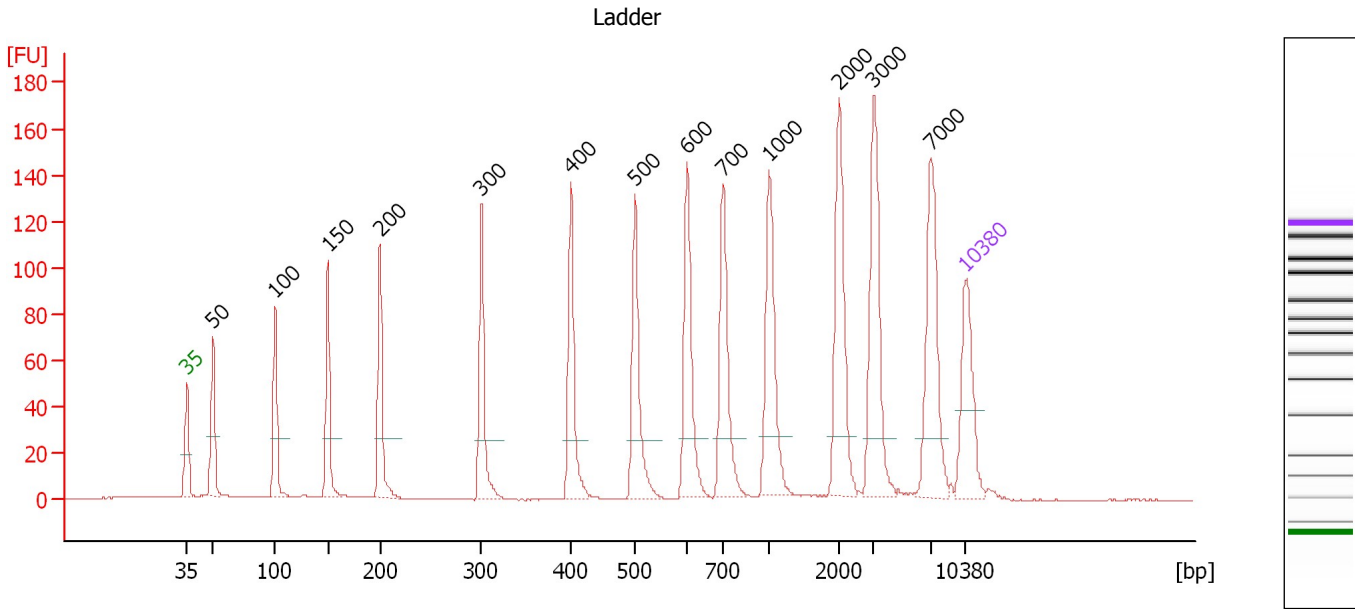
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

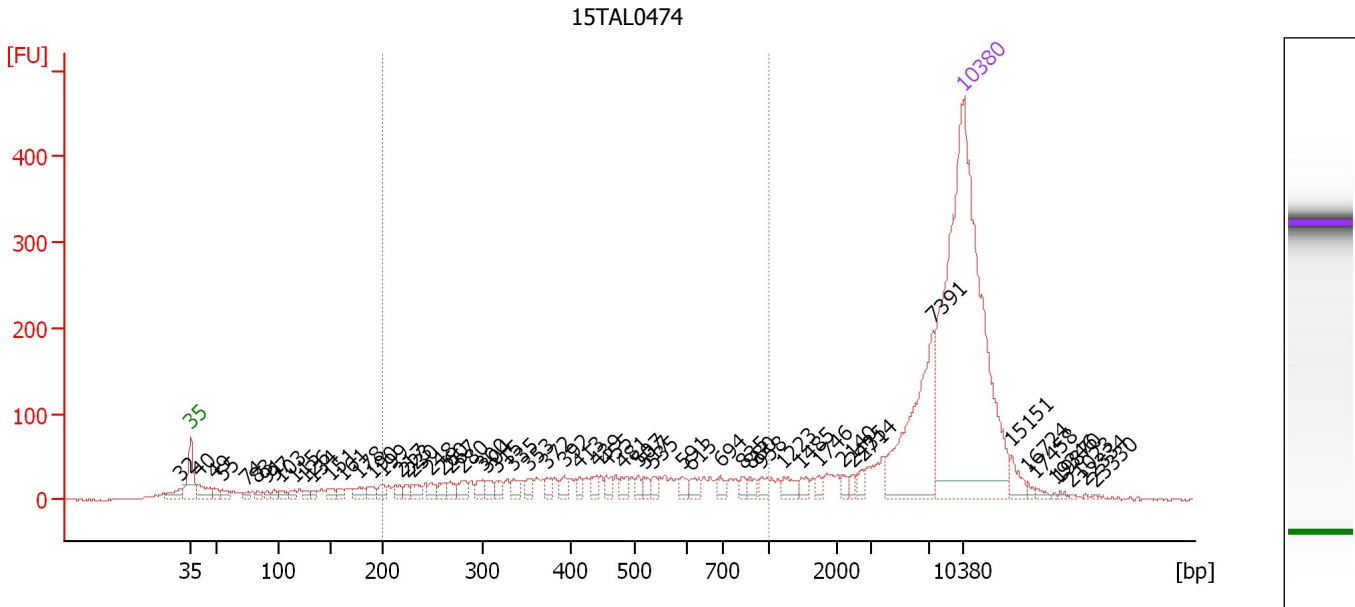
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.91
4	150	150.00	1,515.2	Ladder Peak	55.65
5	200	150.00	1,136.4	Ladder Peak	60.34
6	300	150.00	757.6	Ladder Peak	69.45
7	400	150.00	568.2	Ladder Peak	77.50
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	91.20
11	1,000	150.00	227.3	Ladder Peak	95.32
12	2,000	150.00	113.6	Ladder Peak	101.60
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.89
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 15TAL0474

Number of peaks found: 59 Corr. Area 1: 1,044.1
 Noise: 0.3

Peak table for sample 1 : 15TAL0474


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.08
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	5.16	197.2		43.72
4	49	2.06	63.9		45.17
5	55	1.87	51.9		45.85
6	74	1.23	25.1		48.02
7	83	1.37	25.1		48.99
8	91	1.17	19.4		49.91
9	97	1.22	19.1		50.54
10	103	1.73	25.6		51.16
11	115	1.49	19.5		52.37
12	126	1.28	15.3		53.39
13	134	1.19	13.4		54.11
14	151	1.90	19.1		55.71
15	161	1.37	12.9		56.67
16	178	2.54	21.6		58.27
17	190	2.19	17.4		59.43
18	199	1.98	15.0		60.29
19	217	1.52	10.6		61.94
20	223	1.40	9.5		62.47
21	230	2.50	16.5		63.05
22	248	2.03	12.4		64.74
23	260	2.08	12.1		65.85
24	267	1.97	11.1		66.48
25	280	2.57	13.9		67.59

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Electropherogram Summary Continued ...

... Peak table for sample 1 : 15TAL0474

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	300	2.34	11.8		69.43
27	304	1.90	9.5		69.76
28	315	1.93	9.3		70.68
29	335	1.94	8.8		72.23
30	353	1.75	7.5		73.68
31	372	1.63	6.6		75.27
32	392	2.00	7.7		76.86
33	413	1.42	5.2		78.22
34	439	1.81	6.2		79.76
35	455	1.87	6.2		80.68
36	481	1.92	6.1		82.13
37	507	1.35	4.0		83.58
38	517	1.59	4.7		84.06
39	535	1.41	4.0		84.88
40	591	1.43	3.7		87.54
41	613	1.97	4.9		88.36
42	694	1.62	3.5		91.02
43	835	1.30	2.4		93.05
44	880	1.46	2.5		93.68
45	958	1.66	2.6		94.74
46	1,223	2.22	2.7		96.72
47	1,485	1.40	1.4		98.36
48	1,746	0.98	0.8		100.00
49	2,140	0.95	0.7		102.03
50	2,435	0.91	0.6		102.95
51	2,714	1.21	0.7		103.82
52	7,391	23.46	4.8		110.25
53	 10,380	75.00	10.9	Upper Marker	113.00
54	15,151	0.00	0.0		117.40
55	16,724	0.00	0.0		118.85
56	17,458	0.00	0.0		119.52
57	19,346	0.00	0.0		121.26
58	19,870	0.00	0.0		121.74
59	21,023	0.00	0.0		122.81
60	22,334	0.00	0.0		124.01
61	23,330	0.00	0.0		124.93

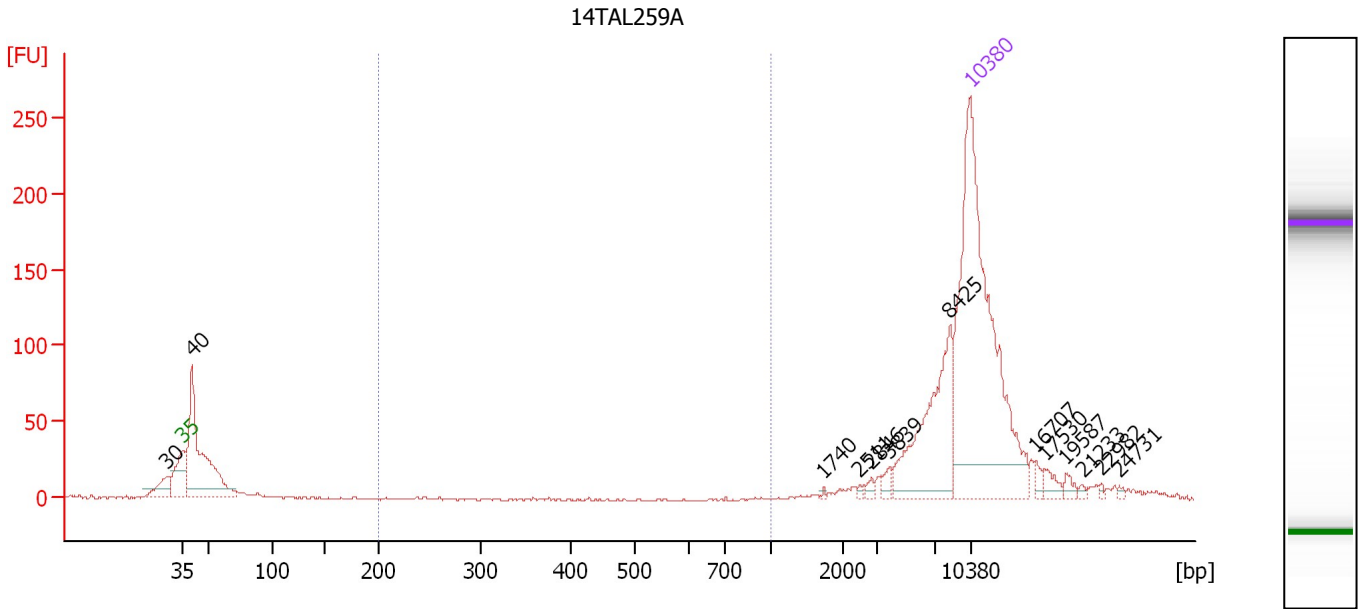
Region table for sample 1 : 15TAL0474

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	471	1,044.1	312.3	 77.01	45	40.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 14TAL259A

Number of peaks found: 13 Corr. Area 1: 0.0
 Noise: 0.6

Peak table for sample 2 : 14TAL259A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.53
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	59.95	2,245.6		43.85
4	1,740	0.36	0.3		99.97
5	2,511	0.57	0.3		103.19
6	2,846	1.11	0.6		104.23
7	3,839	1.87	0.7		105.80
8	8,425	30.18	5.4		111.20
9	10,380	75.00	10.9	Upper Marker	113.00
10	16,707	0.00	0.0		118.83
11	17,530	0.00	0.0		119.59
12	19,587	0.00	0.0		121.48
13	21,233	0.00	0.0		123.00
14	22,982	0.00	0.0		124.61
15	24,731	0.00	0.0		126.22

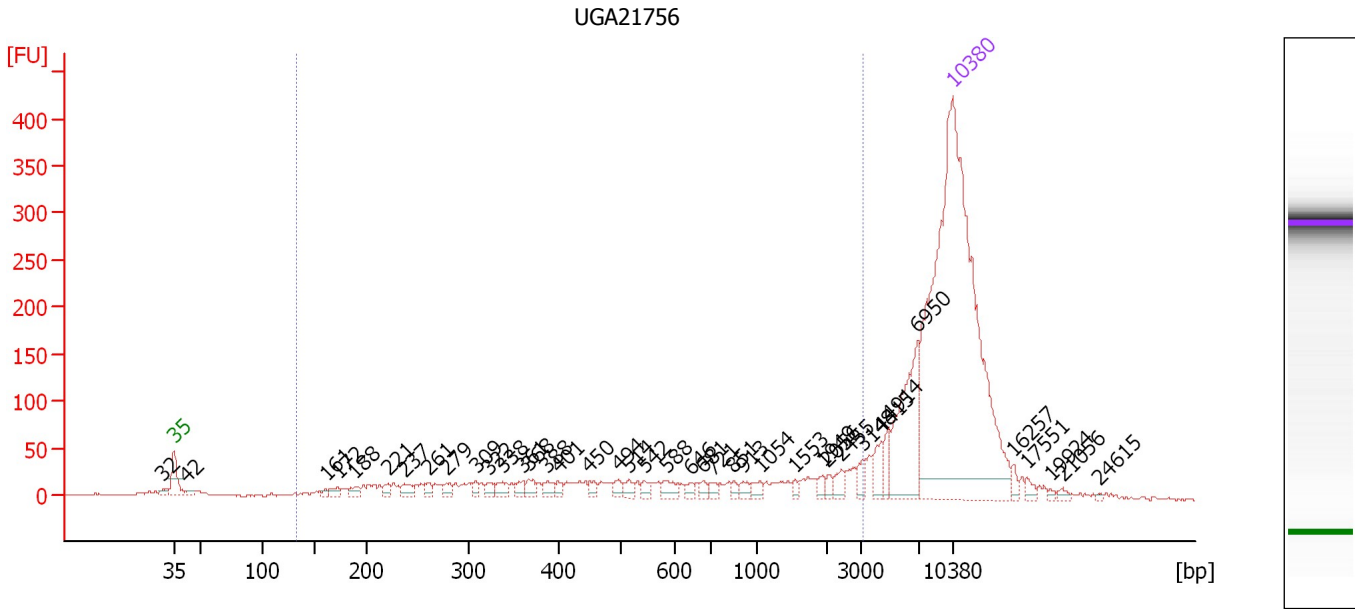
Region table for sample 2 : 14TAL259A

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	0	0.0	0.0	0.00	0	0.0

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Electropherogram Summary Continued ...



Overall Results for sample 3 : UGA21756

Number of peaks found: 40 Corr. Area 1: 813.4
 Noise: 0.9

Peak table for sample 3 : UGA21756


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.01
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	0.99	35.4		44.14
4	161	0.61	5.7		56.66
5	172	1.37	12.1		57.71
6	188	1.46	11.8		59.25
7	221	1.12	7.7		62.23
8	237	1.79	11.4		63.72
9	261	1.13	6.5		65.90
10	279	1.37	7.4		67.49
11	309	1.12	5.5		70.18
12	322	1.33	6.3		71.22
13	338	1.91	8.6		72.51
14	361	1.32	5.5		74.35
15	368	1.58	6.5		74.89
16	388	1.57	6.1		76.53
17	401	0.98	3.7		77.53
18	450	1.07	3.6		80.36
19	494	1.30	4.0		82.89
20	514	1.26	3.7		83.89
21	542	1.17	3.3		85.23
22	588	1.90	4.9		87.36
23	646	0.95	2.2		89.45
24	681	0.97	2.2		90.59
25	721	1.01	2.1		91.49

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Electropherogram Summary Continued ...

... Peak table for sample 3 : UGA21756

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	851	0.79	1.4		93.28
27	913	1.01	1.7		94.12
28	1,054	1.13	1.6		95.66
29	1,553	0.64	0.6		98.79
30	1,949	0.88	0.7		101.28
31	2,056	0.81	0.6		101.77
32	2,455	1.30	0.8		103.01
33	3,148	1.53	0.7		104.90
34	4,415	2.19	0.8		106.54
35	4,914	2.21	0.7		107.19
36	6,950	14.18	3.1		109.82
37	 10,380	75.00	10.9	Upper Marker	113.00
38	16,257	0.00	0.0		118.42
39	17,551	0.00	0.0		119.61
40	19,924	0.00	0.0		121.79
41	21,056	0.00	0.0		122.84
42	24,615	0.00	0.0		126.12

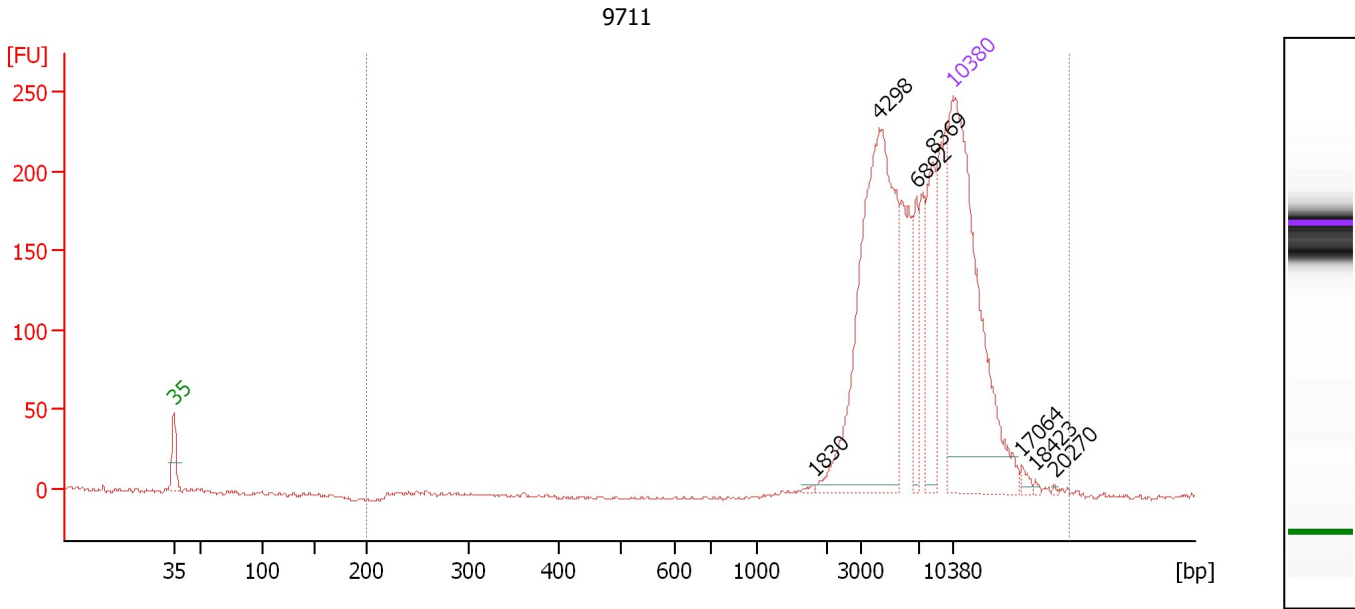
Region table for sample 3 : UGA21756

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
132	3,103	873	813.4	216.5	 53.97	62	89.8

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 9711

Number of peaks found: 7 Corr. Area 1: 1,575.0
 Noise: 1.0

Peak table for sample 4 : 9711

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	1,830	0.50	0.4		100.53
3	4,298	92.12	32.5		106.39
4	6,892	12.10	2.7		109.75
5	8,369	20.72	3.8		111.15
6	10,380	75.00	10.9	Upper Marker	113.00
7	17,064	0.00	0.0		119.16
8	18,423	0.00	0.0		120.41
9	20,270	0.00	0.0		122.11

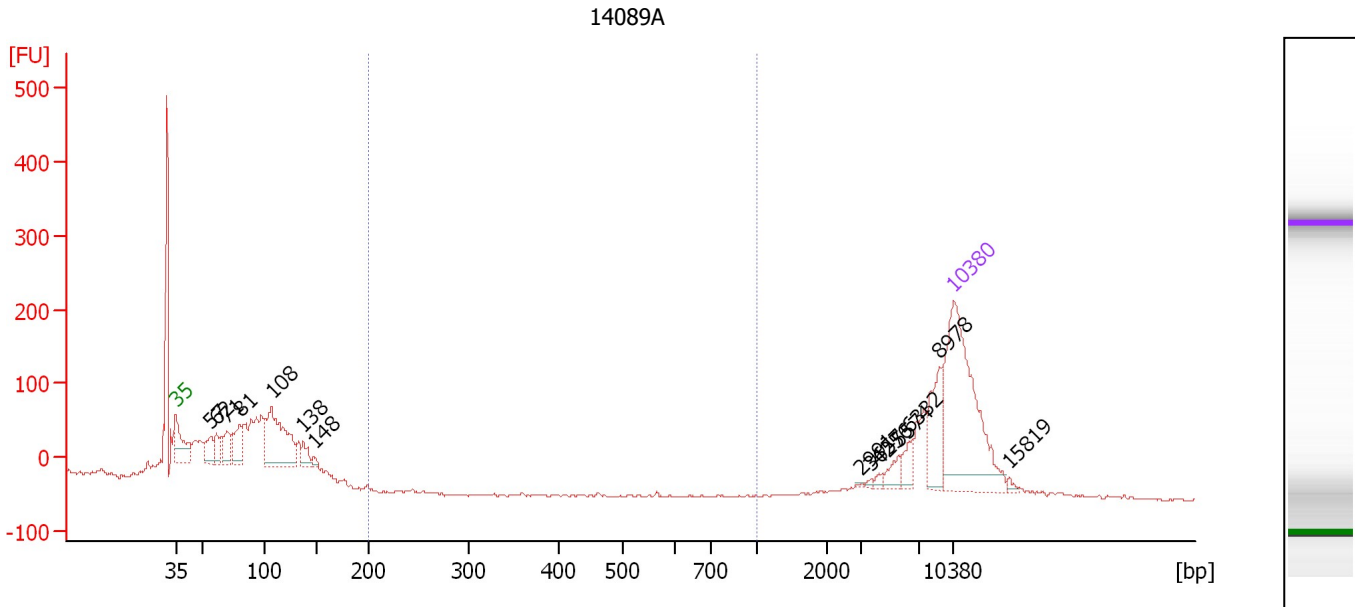
Region table for sample 4 : 9711

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	21,816	7,861	1,575.0	51.3	174.65	100	46.1

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 14089A

Number of peaks found: 14 Corr. Area 1: 0.0
 Noise: 1.7

Peak table for sample 5 : 14089A

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	57	13.78	364.9		46.15
3	62	11.84	289.8		46.67
4	71	16.51	353.8		47.65
5	81	21.54	403.2		48.79
6	108	64.56	909.0		51.63
7	138	8.73	96.2		54.47
8	148	2.78	28.4		55.45
9	2,991	0.35	0.2		104.68
10	3,657	0.82	0.3		105.56
11	4,256	1.60	0.6		106.34
12	5,574	5.34	1.5		108.04
13	6,332	6.63	1.6		109.02
14	8,978	20.84	3.5		111.71
15	10,380	75.00	10.9	Upper Marker	113.00
16	15,819	0.00	0.0		118.01

Region table for sample 5 : 14089A

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	0	0.0	0.0	0.00	0	0.0

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Gel Image

Assay Class: High Sensitivity DNA Assay
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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		12/2/2016 10:22:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-02\2016-12-02_001.xad)		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2016 9:41:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1