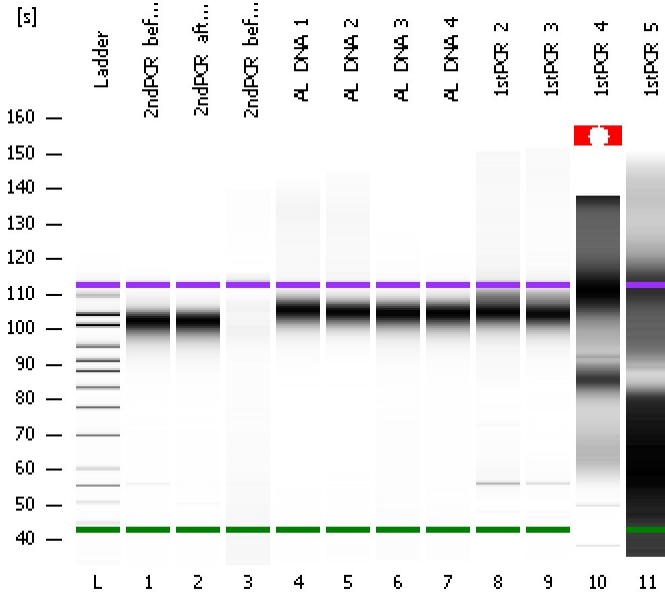


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
Modified: 7/11/2019 1:53:17 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

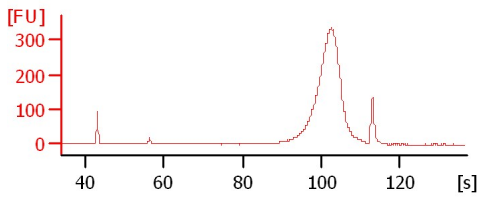
Assay Information:

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

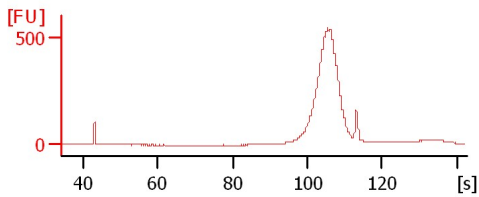
Chip Information:

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

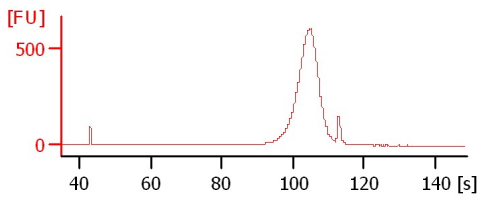
2ndPCR_before pur._3kb_24cycles



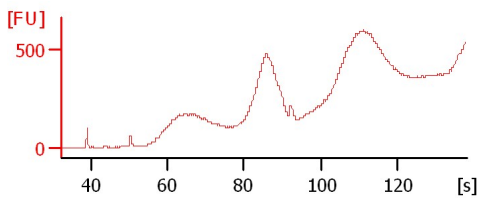
AL_DNA_1



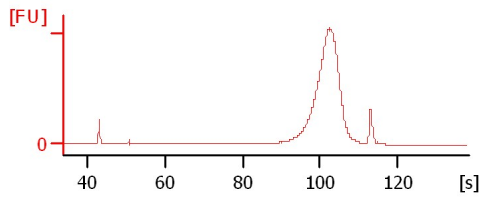
AL_DNA_4



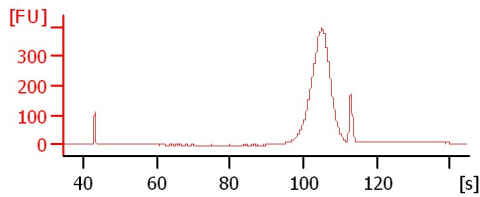
1stPCR_4



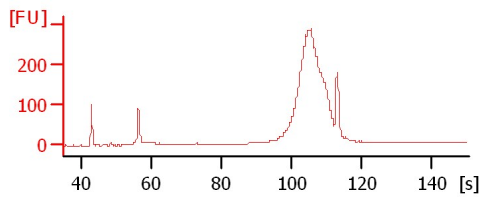
2ndPCR_after pur._3kb_24cycles



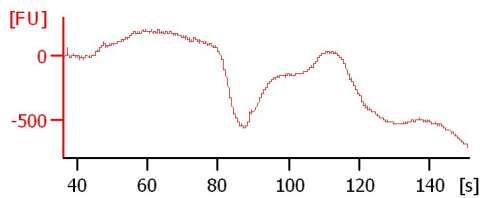
AL_DNA_2



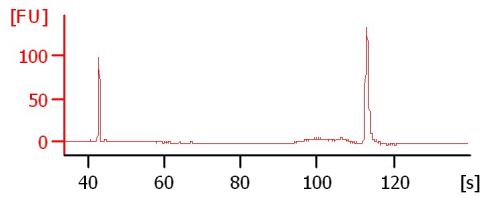
1stPCR_2



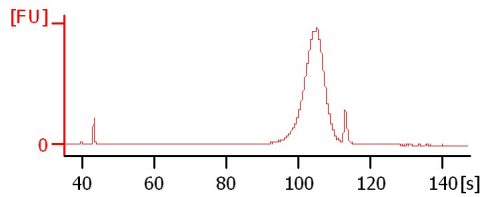
1stPCR_5



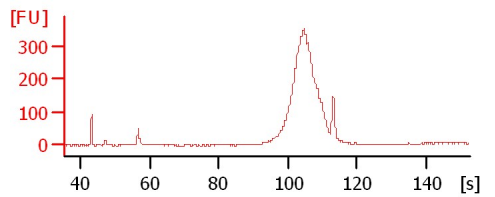
2ndPCR_before pur._29cycles



AL_DNA_3



1stPCR_3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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2ndPCR_after pur._3kb_24cycles		<input type="checkbox"/>	✓			
2ndPCR_before pur._29cycles		<input type="checkbox"/>	✓			
AL_DNA_1		<input type="checkbox"/>	✓			
AL_DNA_2		<input type="checkbox"/>	✓			
AL_DNA_3		<input type="checkbox"/>	✓			
AL_DNA_4		<input type="checkbox"/>	✓			
1stPCR_2		<input type="checkbox"/>	✓			
1stPCR_3		<input type="checkbox"/>	✓			
1stPCR_4		<input type="checkbox"/>	✓			
1stPCR_5		<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\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
Modified: 7/11/2019 1:53:17 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

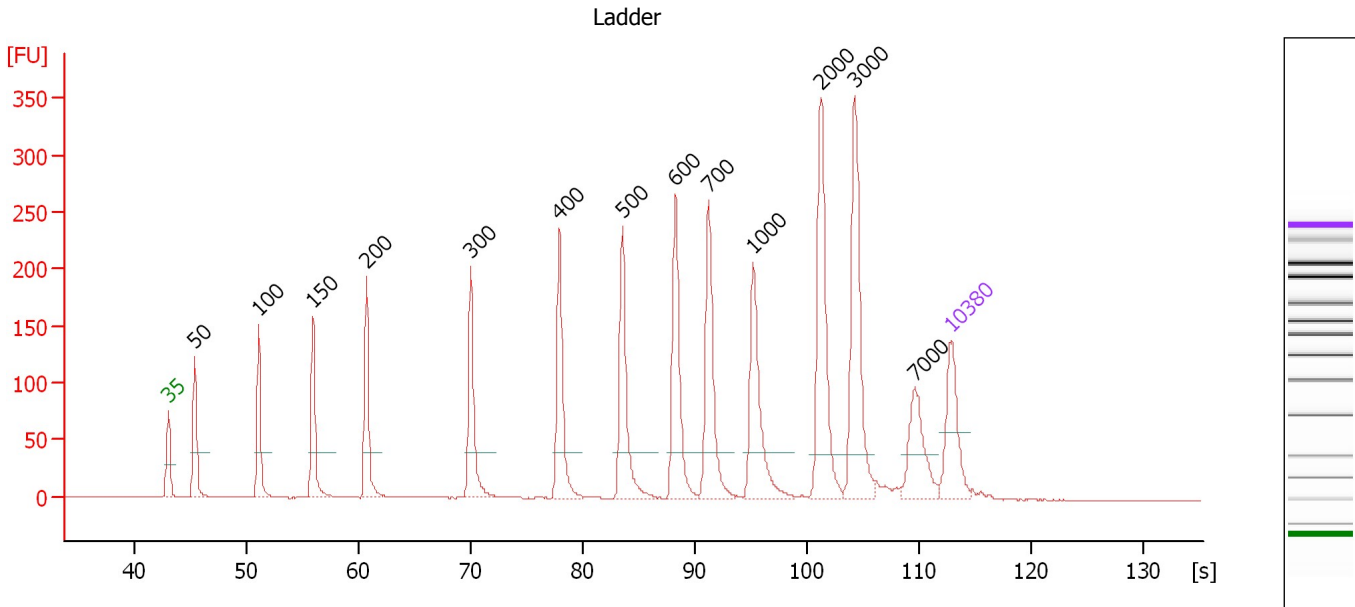
Ladder

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\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

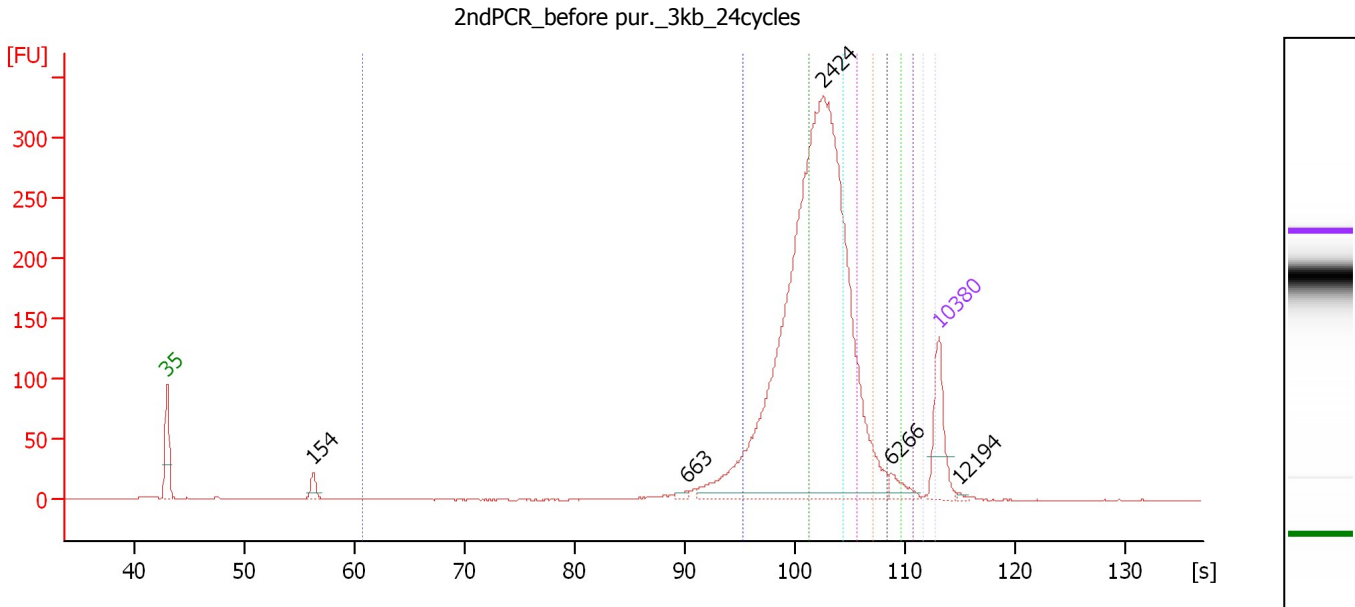
Peak table for Ladder

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	51.06
4	150	150.00	1,515.2	Ladder Peak	55.91
5	200	150.00	1,136.4	Ladder Peak	60.70
6	300	150.00	757.6	Ladder Peak	70.01
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.54
9	600	150.00	378.8	Ladder Peak	88.29
10	700	150.00	324.7	Ladder Peak	91.27
11	1,000	150.00	227.3	Ladder Peak	95.25
12	2,000	150.00	113.6	Ladder Peak	101.29
13	3,000	150.00	75.8	Ladder Peak	104.32
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 2ndPCR before pur. 3kb 24cycles

Number of peaks found:	5	Corr. Area 5:	95.2
Noise:	0.3	Corr. Area 6:	41.8
Corr. Area 1:	125.8	Corr. Area 7:	24.0
Corr. Area 2:	846.3	Corr. Area 8:	10.6
Corr. Area 3:	931.7	Corr. Area 9:	5.2
Corr. Area 4:	225.2	Corr. Area 10:	1.1

Peak table for sample 1 : 2ndPCR before pur. 3kb 24cycles

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	154	23.13	228.2		56.25
3	663	5.84	13.4		90.15
4	2,424	1,332.10	832.6		102.58
5	6,266	20.75	5.0		108.66
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,194	0.00	0.0		114.80

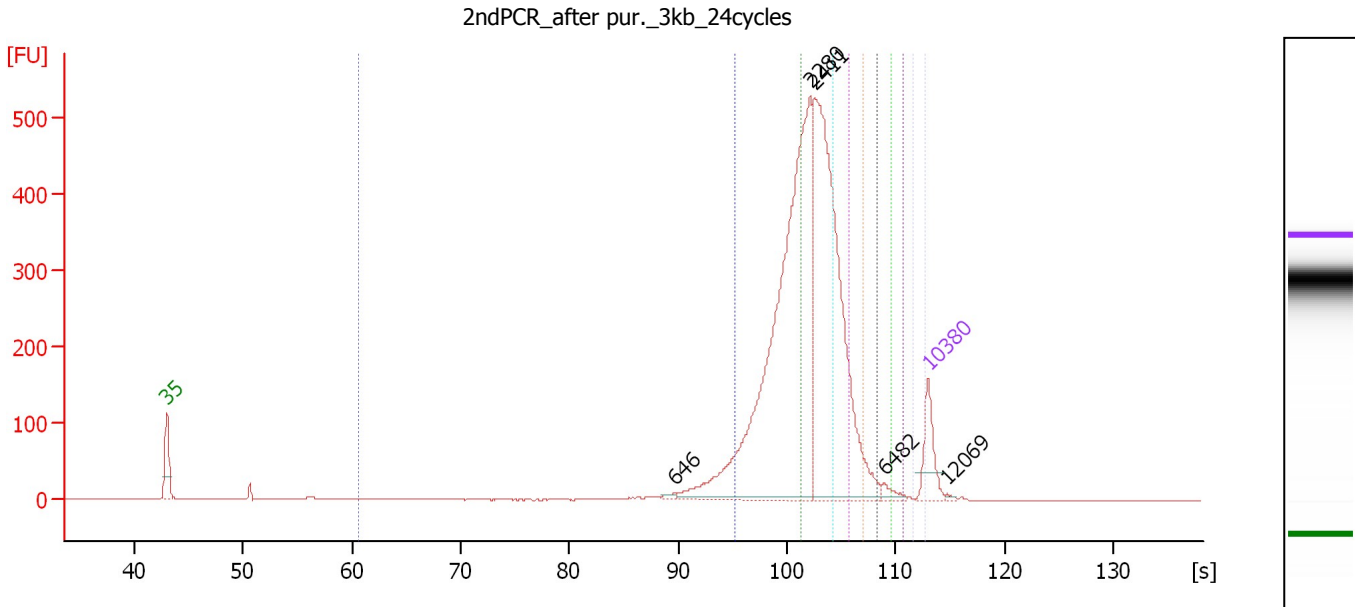
Region table for sample 1 : 2ndPCR before pur. 3kb 24cycles

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	799	93.26	125.8	199.6	5	20.4
1,000	2,000	1,656	534.07	846.3	488.6	36	15.6
2,000	3,000	2,475	565.81	931.7	346.3	39	11.5
3,000	4,000	3,402	137.36	225.2	61.2	9	8.4
4,000	5,000	4,370	58.51	95.2	20.3	4	6.6
5,000	6,000	5,394	25.88	41.8	7.3	2	5.7
6,000	7,000	6,426	14.94	24.0	3.5	1	4.5
7,000	8,000	7,397	6.59	10.6	1.4	0	4.0
8,000	9,000	8,329	3.19	5.2	0.6	0	3.5
9,000	10,000	9,738	0.66	1.1	0.1	0	2.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2ndPCR after pur. 3kb 24cycles

Number of peaks found:	5	Corr. Area 5:	143.5
Noise:	0.4	Corr. Area 6:	50.2
Corr. Area 1:	174.0	Corr. Area 7:	24.0
Corr. Area 2:	1,334.2	Corr. Area 8:	9.4
Corr. Area 3:	1,469.0	Corr. Area 9:	4.4
Corr. Area 4:	366.1	Corr. Area 10:	0.4

Peak table for sample 2 : 2ndPCR after pur. 3kb 24cycles

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	646	7.27	17.1		89.65
3	2,280	1,119.01	743.6		102.14
4	2,411	831.14	522.4		102.53
5	6,482	16.17	3.8		108.95
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,069	0.00	0.0		114.68

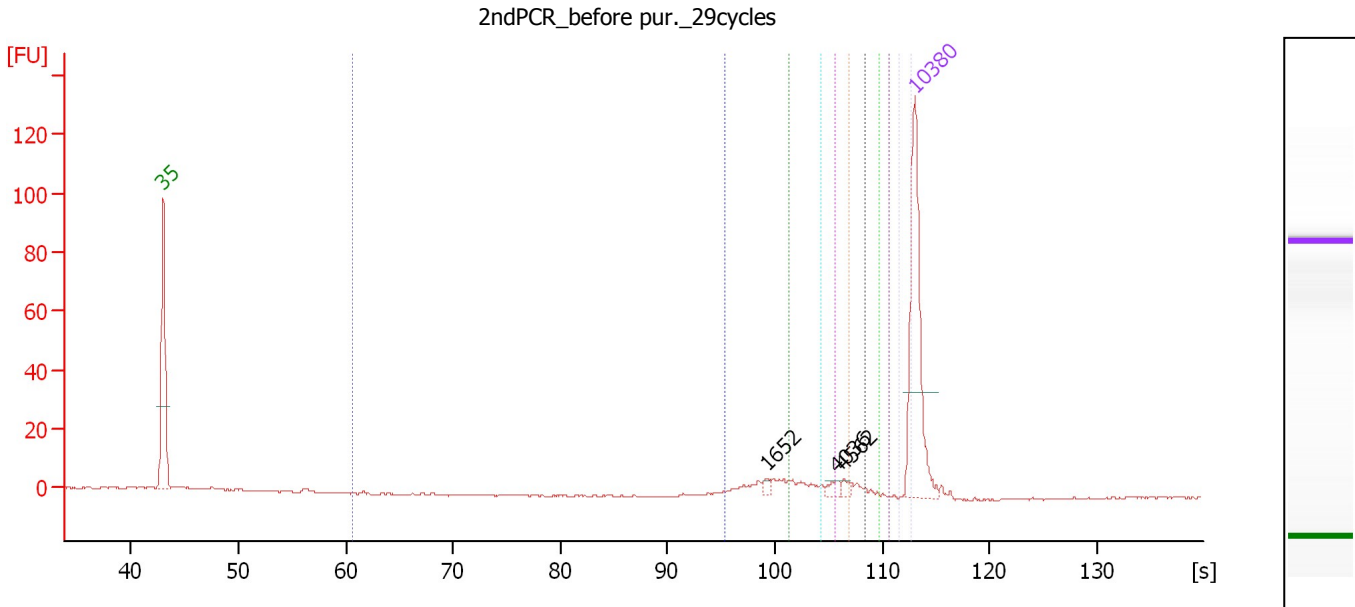
Region table for sample 2 : 2ndPCR after pur. 3kb 24cycles

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	822	117.31	174.0	225.6	5	16.3
1,000	2,000	1,656	775.83	1,334.2	710.0	37	15.6
2,000	3,000	2,471	821.97	1,469.0	503.9	41	11.5
3,000	4,000	3,396	205.77	366.1	91.8	10	8.6
4,000	5,000	4,364	81.22	143.5	28.2	4	6.7
5,000	6,000	5,386	28.65	50.2	8.1	1	5.5
6,000	7,000	6,415	13.80	24.0	3.3	1	4.5
7,000	8,000	7,393	5.35	9.4	1.1	0	4.0
8,000	9,000	8,363	2.45	4.4	0.4	0	3.5
9,000	10,000	9,748	0.24	0.4	0.0	0	2.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2ndPCR before pur. 29cycles

Number of peaks found:	3	Corr. Area 5:	6.3
Noise:	0.3	Corr. Area 6:	4.3
Corr. Area 1:	0.5	Corr. Area 7:	1.9
Corr. Area 2:	22.2	Corr. Area 8:	0.4
Corr. Area 3:	11.4	Corr. Area 9:	0.1
Corr. Area 4:	4.7	Corr. Area 10:	0.0

Peak table for sample 3 : 2ndPCR before pur. 29cycles

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	1,652	2.48	2.3		99.19
3	4,036	3.97	1.5		105.69
4	4,562	2.91	1.0		106.40
5	10,380	75.00	10.9	Upper Marker	113.00

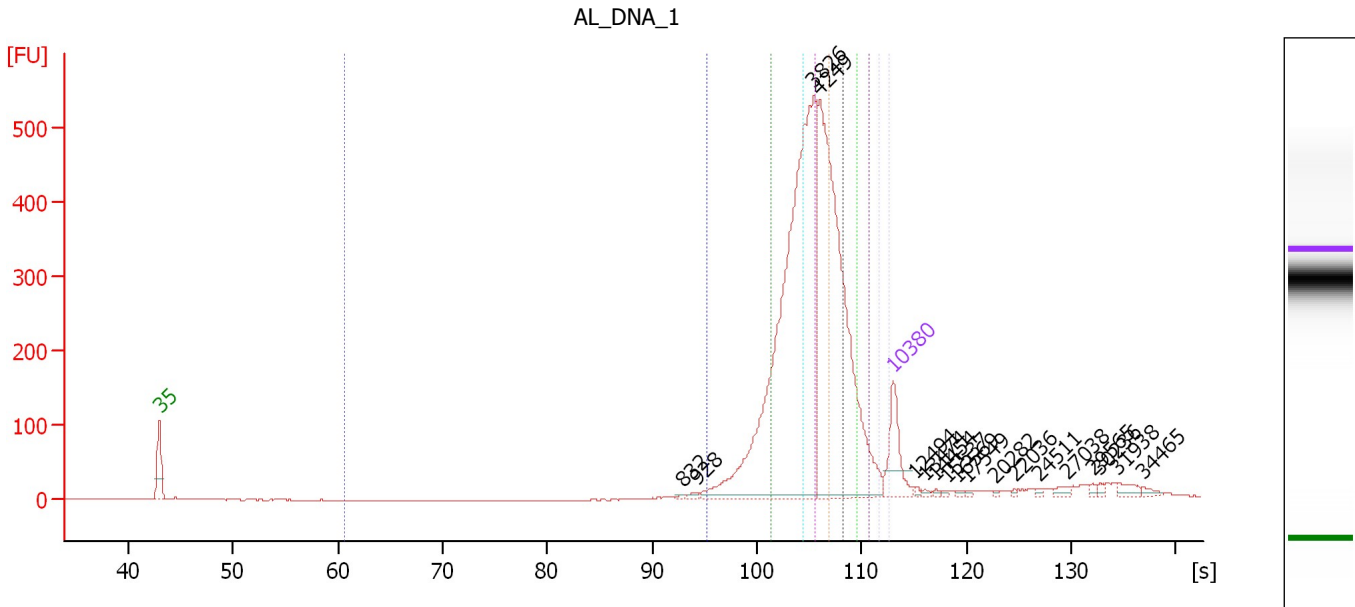
Region table for sample 3 : 2ndPCR before pur. 29cycles

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	958	0.37	0.5	0.6	1	3.5
1,000	2,000	1,604	14.22	22.2	13.4	34	15.8
2,000	3,000	2,439	6.98	11.4	4.3	17	11.9
3,000	4,000	3,496	2.88	4.7	1.2	7	8.8
4,000	5,000	4,467	3.91	6.3	1.3	10	6.7
5,000	6,000	5,429	2.72	4.3	0.8	7	5.3
6,000	7,000	6,363	1.21	1.9	0.3	3	4.7
7,000	8,000	7,329	0.23	0.4	0.0	1	3.4
8,000	9,000	8,464	0.03	0.1	0.0	0	0.8
9,000	10,000	9,809	0.00	0.0	0.0	0	1.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AL_DNA_1

Number of peaks found:	18	Corr. Area 5:	618.7
Noise:	0.6	Corr. Area 6:	472.7
Corr. Area 1:	17.5	Corr. Area 7:	261.2
Corr. Area 2:	331.5	Corr. Area 8:	95.7
Corr. Area 3:	920.9	Corr. Area 9:	46.5
Corr. Area 4:	658.0	Corr. Area 10:	13.4

Peak table for sample 4 : AL_DNA_1

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	832	3.42	6.2		93.01
3	928	5.98	9.8		94.30
4	3,826	967.71	383.2		105.42
5	4,249	719.78	256.6		105.98
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,494	0.00	0.0		115.10
8	13,474	0.00	0.0		116.07
9	14,454	0.00	0.0		117.05
10	15,537	0.00	0.0		118.12
11	16,569	0.00	0.0		119.15
12	17,549	0.00	0.0		120.12
13	20,282	0.00	0.0		122.84
14	22,036	0.00	0.0		124.58
15	24,511	0.00	0.0		127.04
16	27,038	0.00	0.0		129.55
17	29,565	0.00	0.0		132.06
18	30,236	0.00	0.0		132.73
19	31,938	0.00	0.0		134.42
20	34,465	0.00	0.0		136.93

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...

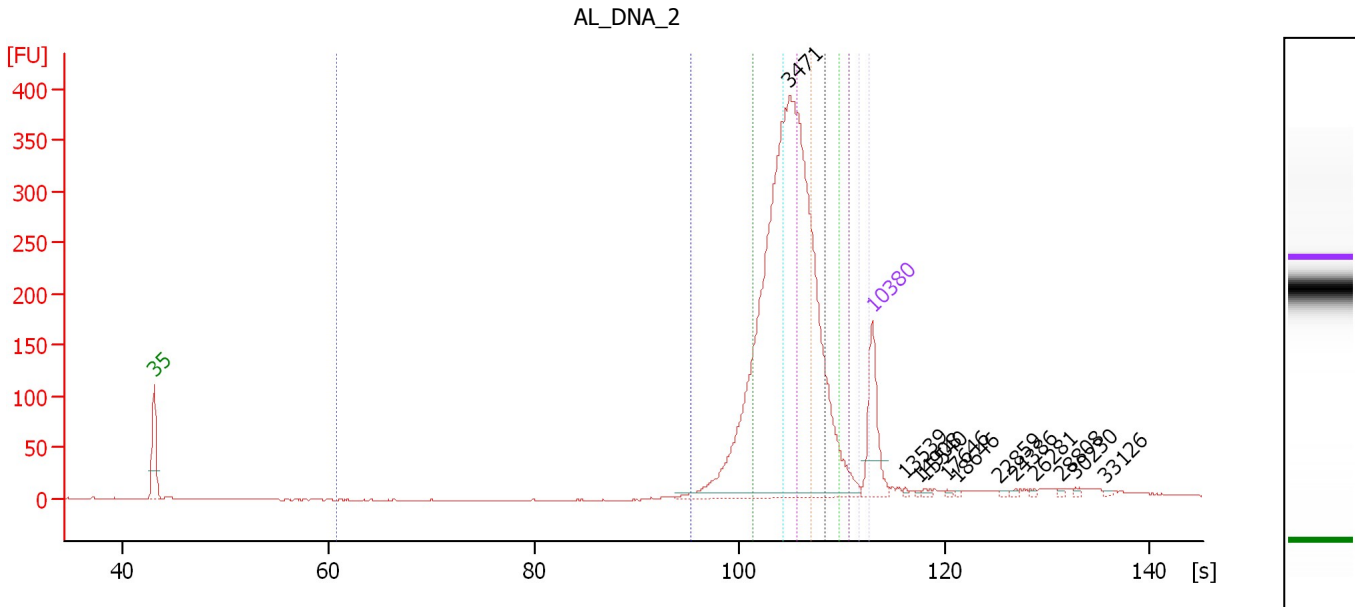
... Region table for sample 4 : AL_DNA_1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	903	10.01	17.5	16.8	0	8.1
1,000	2,000	1,710	166.70	331.5	147.7	9	14.2
2,000	3,000	2,578	448.58	920.9	263.6	25	10.9
3,000	4,000	3,491	322.10	658.0	139.8	18	8.5
4,000	5,000	4,448	304.98	618.7	103.9	17	6.4
5,000	6,000	5,403	234.65	472.7	65.8	13	5.5
6,000	7,000	6,378	130.58	261.2	31.0	7	4.6
7,000	8,000	7,381	47.70	95.7	9.8	3	4.1
8,000	9,000	8,393	22.70	46.5	4.1	1	3.5
9,000	10,000	9,498	6.39	13.4	1.0	0	3.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AL_DNA_2

Number of peaks found:	12	Corr. Area 5:	427.8
Noise:	0.5	Corr. Area 6:	249.6
Corr. Area 1:	2.3	Corr. Area 7:	114.6
Corr. Area 2:	239.0	Corr. Area 8:	34.5
Corr. Area 3:	742.5	Corr. Area 9:	16.6
Corr. Area 4:	479.3	Corr. Area 10:	2.4

Peak table for sample 5 : AL_DNA_2

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	3,471	1,128.29	492.5		104.94
3	10,380	75.00	10.9	Upper Marker	113.00
4	13,539	0.00	0.0		116.14
5	14,908	0.00	0.0		117.50
6	15,540	0.00	0.0		118.13
7	17,646	0.00	0.0		120.22
8	18,646	0.00	0.0		121.21
9	22,859	0.00	0.0		125.40
10	24,386	0.00	0.0		126.92
11	26,281	0.00	0.0		128.80
12	28,808	0.00	0.0		131.31
13	30,230	0.00	0.0		132.72
14	33,126	0.00	0.0		135.60

Region table for sample 5 : AL_DNA_2








From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	964	1.29	2.3	2.0	0	2.6
1,000	2,000	1,740	118.61	239.0	103.3	10	12.4
2,000	3,000	2,565	358.27	742.5	211.7	31	11.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...

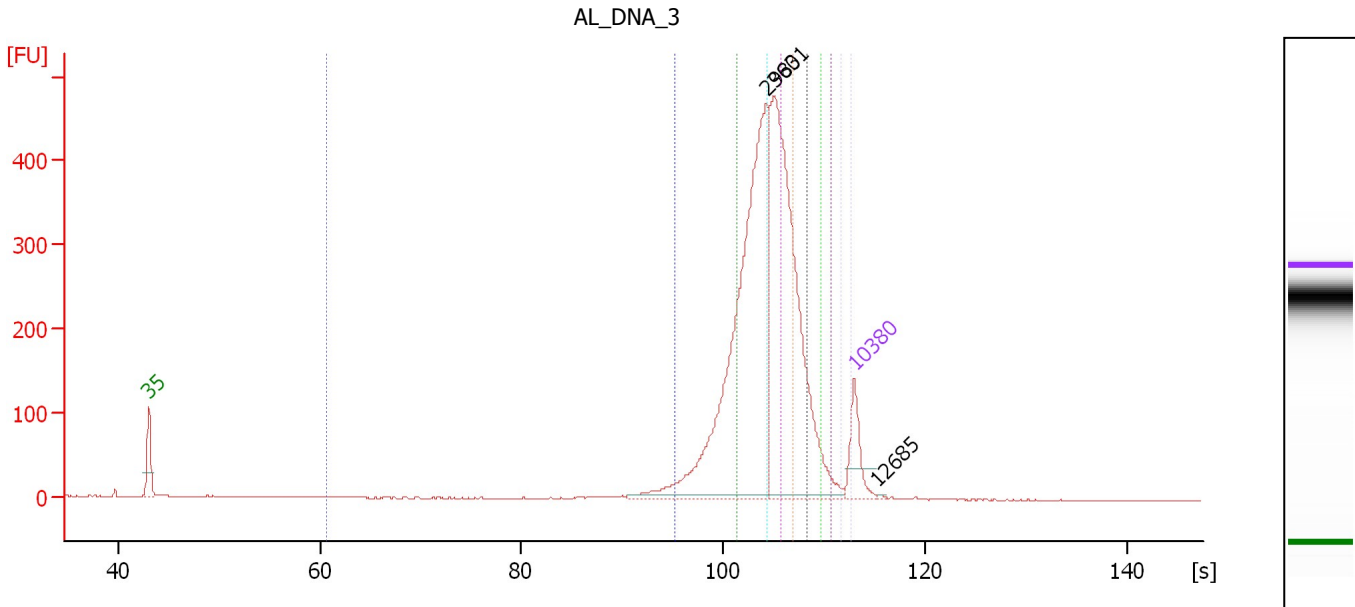
... Region table for sample 5 : AL_DNA_2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
3,000	4,000	3,455	232.35	479.3	101.9	 20	8.4
4,000	5,000	4,422	208.85	427.8	71.6	 18	6.9
5,000	6,000	5,391	122.73	249.6	34.5	 10	5.4
6,000	7,000	6,372	56.76	114.6	13.5	 5	4.7
7,000	8,000	7,396	17.03	34.5	3.5	 1	4.1
8,000	9,000	8,392	8.02	16.6	1.4	 1	3.6
9,000	10,000	9,700	1.13	2.4	0.2	 0	2.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AL_DNA_3

Number of peaks found:	3	Corr. Area 5:	484.6
Noise:	0.4	Corr. Area 6:	278.5
Corr. Area 1:	61.1	Corr. Area 7:	125.5
Corr. Area 2:	483.2	Corr. Area 8:	39.3
Corr. Area 3:	1,058.4	Corr. Area 9:	17.9
Corr. Area 4:	600.9	Corr. Area 10:	4.5

Peak table for sample 6 : AL_DNA_3

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	2,983	940.20	477.6		104.26
3	3,601	795.47	334.7		105.12
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,685	0.00	0.0		115.29

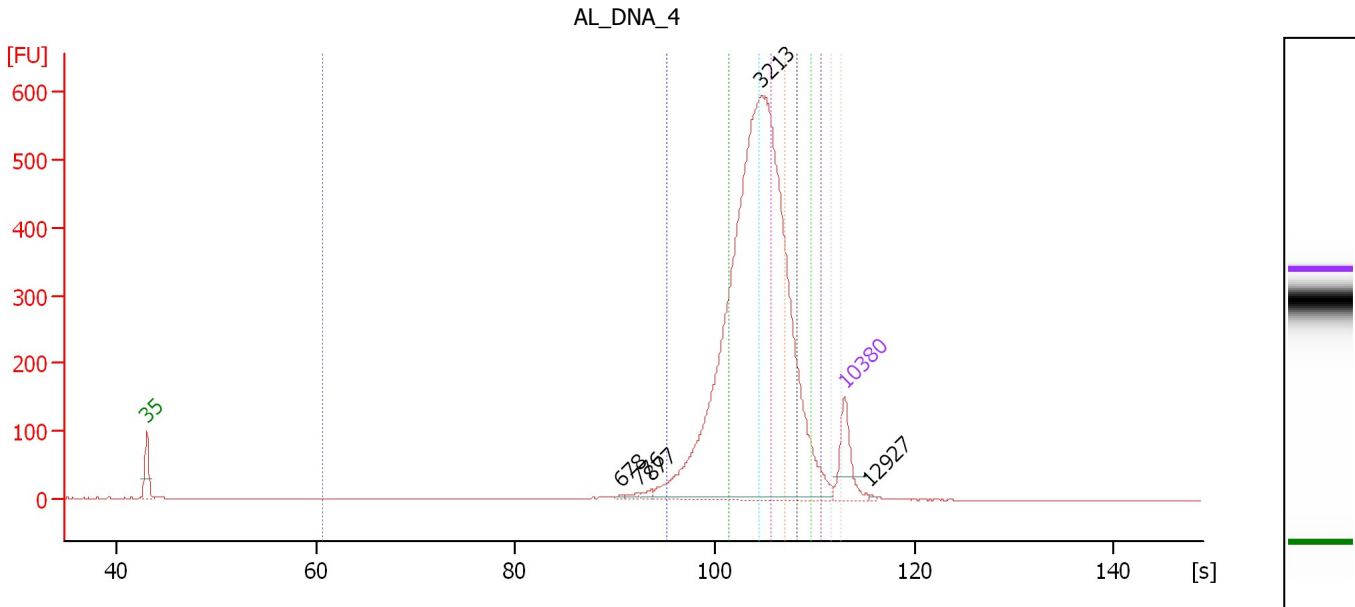
Region table for sample 6 : AL_DNA_3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	801	41.21	61.1	83.0	2	18.9
1,000	2,000	1,686	278.04	483.2	249.9	15	14.8
2,000	3,000	2,546	588.29	1,058.4	350.1	33	11.2
3,000	4,000	3,460	335.60	600.9	147.0	19	8.6
4,000	5,000	4,428	272.56	484.6	93.3	15	6.7
5,000	6,000	5,399	157.78	278.5	44.3	9	5.4
6,000	7,000	6,384	71.63	125.5	17.0	4	4.6
7,000	8,000	7,384	22.37	39.3	4.6	1	4.1
8,000	9,000	8,401	9.95	17.9	1.8	1	3.5
9,000	10,000	9,624	2.46	4.5	0.4	0	3.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AL_DNA_4

Number of peaks found:	5	Corr. Area 5:	614.4
Noise:	0.3	Corr. Area 6:	363.1
Corr. Area 1:	76.4	Corr. Area 7:	167.3
Corr. Area 2:	676.0	Corr. Area 8:	54.2
Corr. Area 3:	1,342.6	Corr. Area 9:	30.2
Corr. Area 4:	729.1	Corr. Area 10:	5.0

Peak table for sample 7 : AL_DNA_4

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	678	3.37	7.5		90.60
3	776	6.43	12.6		92.27
4	877	9.21	15.9		93.62
5	3,213	1,858.25	876.2		104.60
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,927	0.00	0.0		115.53

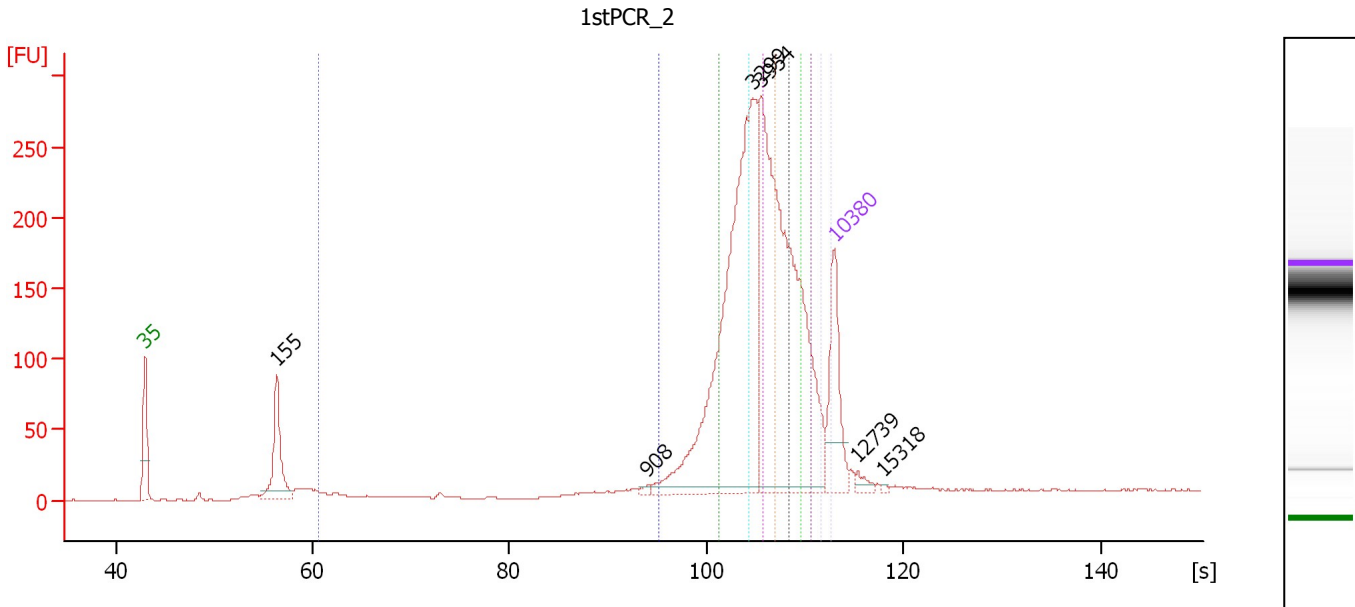
Region table for sample 7 : AL_DNA_4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	814	42.80	76.4	82.8	2	16.8
1,000	2,000	1,684	325.23	676.0	292.7	17	15.0
2,000	3,000	2,548	623.79	1,342.6	371.0	33	11.2
3,000	4,000	3,454	340.36	729.1	149.3	18	8.4
4,000	5,000	4,415	288.83	614.4	99.1	15	6.8
5,000	6,000	5,396	171.91	363.1	48.3	9	5.5
6,000	7,000	6,391	79.78	167.3	18.9	4	4.7
7,000	8,000	7,395	25.76	54.2	5.3	1	4.0
8,000	9,000	8,380	14.06	30.2	2.5	1	3.7
9,000	10,000	9,608	2.27	5.0	0.4	0	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1stPCR_2

Number of peaks found:	6	Corr. Area 5:	315.3
Noise:	0.5	Corr. Area 6:	236.1
Corr. Area 1:	49.2	Corr. Area 7:	195.2
Corr. Area 2:	232.1	Corr. Area 8:	119.6
Corr. Area 3:	561.7	Corr. Area 9:	71.9
Corr. Area 4:	345.9	Corr. Area 10:	20.5

Peak table for sample 8 : 1stPCR_2

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	155	101.47	993.8		56.36
3	908	3.44	5.7		94.03
4	3,299	443.49	203.7		104.71
5	3,954	459.38	176.0		105.59
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,739	0.00	0.0		115.34
8	15,318	0.00	0.0		117.91

Region table for sample 8 : 1stPCR_2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	656	28.35	49.2	108.4	2	41.3
1,000	2,000	1,683	102.65	232.1	92.4	10	15.1
2,000	3,000	2,559	239.87	561.7	142.0	24	11.1
3,000	4,000	3,465	148.41	345.9	64.9	15	8.5
4,000	5,000	4,441	136.27	315.3	46.5	13	6.9
5,000	6,000	5,448	102.79	236.1	28.6	10	5.4
6,000	7,000	6,435	85.61	195.2	20.2	8	4.6
7,000	8,000	7,410	52.24	119.6	10.7	5	4.2
8,000	9,000	8,415	30.76	71.9	5.5	3	3.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...

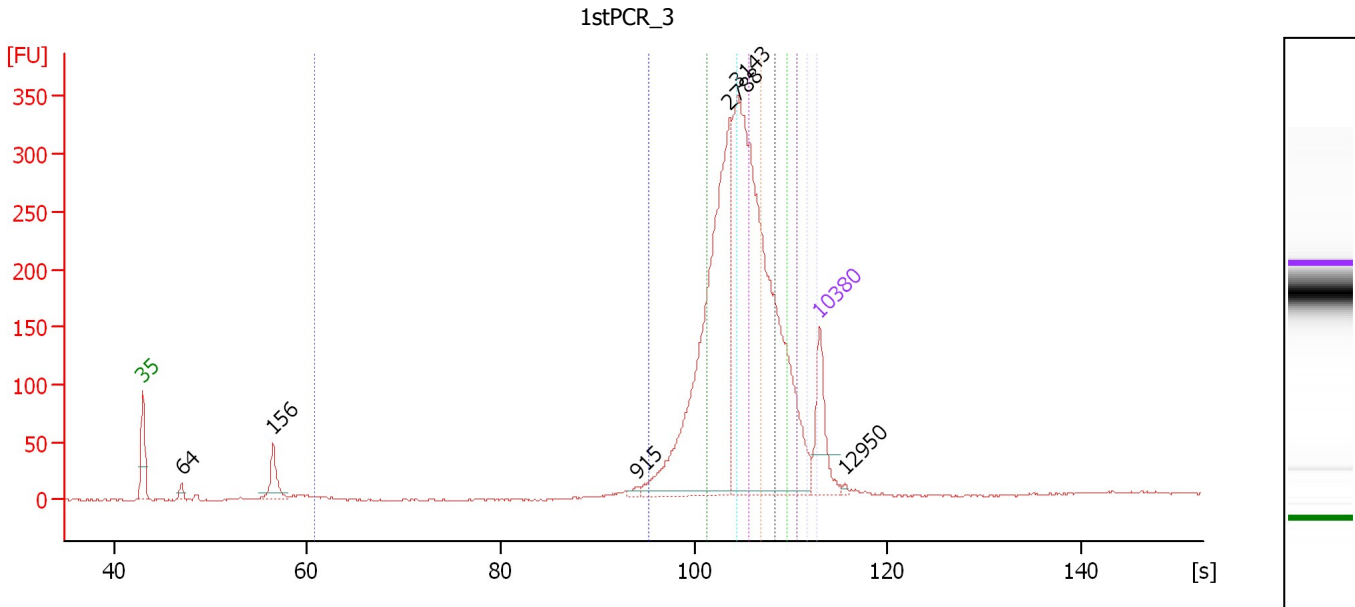
... Region table for sample 8 : 1stPCR 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
9,000	10,000	9,501	8.58	20.5	1.4	<input type="checkbox"/> 1	3.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1stPCR_3

Number of peaks found:	6	Corr. Area 5:	335.4
Noise:	0.6	Corr. Area 6:	238.3
Corr. Area 1:	26.9	Corr. Area 7:	171.8
Corr. Area 2:	373.6	Corr. Area 8:	96.5
Corr. Area 3:	789.8	Corr. Area 9:	56.0
Corr. Area 4:	417.0	Corr. Area 10:	18.0

Peak table for sample 9 : 1stPCR_3

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	64	12.67	298.0		47.00
3	156	61.74	599.3		56.49
4	915	6.06	10.0		94.13
5	2,788	549.96	298.9		103.67
6	3,143	823.24	396.8		104.51
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,950	0.00	0.0		115.55

Region table for sample 9 : 1stPCR_3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	848	17.90	26.9	40.9	1	20.1
1,000	2,000	1,686	211.32	373.6	189.9	14	14.7
2,000	3,000	2,542	431.56	789.8	257.2	30	11.3
3,000	4,000	3,466	228.96	417.0	100.1	16	8.6
4,000	5,000	4,450	185.49	335.4	63.2	13	6.7
5,000	6,000	5,453	132.76	238.3	36.9	9	5.5
6,000	7,000	6,430	96.40	171.8	22.7	7	4.5
7,000	8,000	7,384	53.95	96.5	11.1	4	4.1
8,000	9,000	8,362	30.72	56.0	5.6	2	3.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...

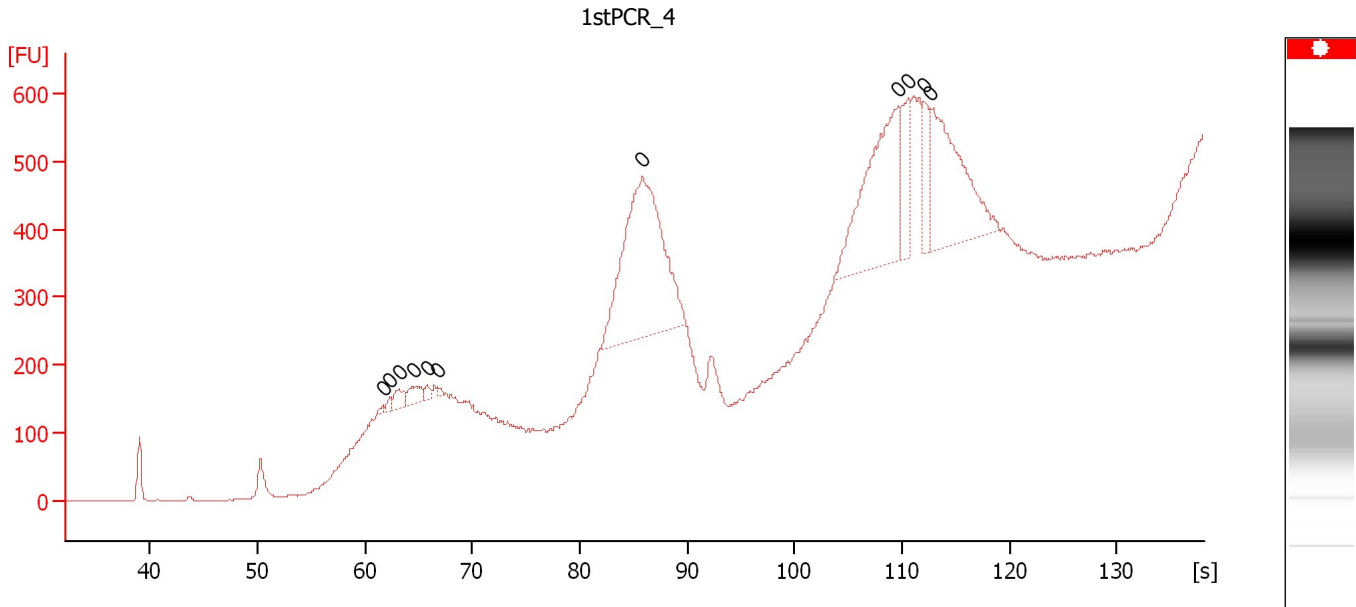
... Region table for sample 9 : 1stPCR 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
9,000	10,000	9,470	9.66	18.0	1.5	<input type="checkbox"/> 1	3.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

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 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1stPCR_4

Number of peaks found: 0 Noise: 0.8

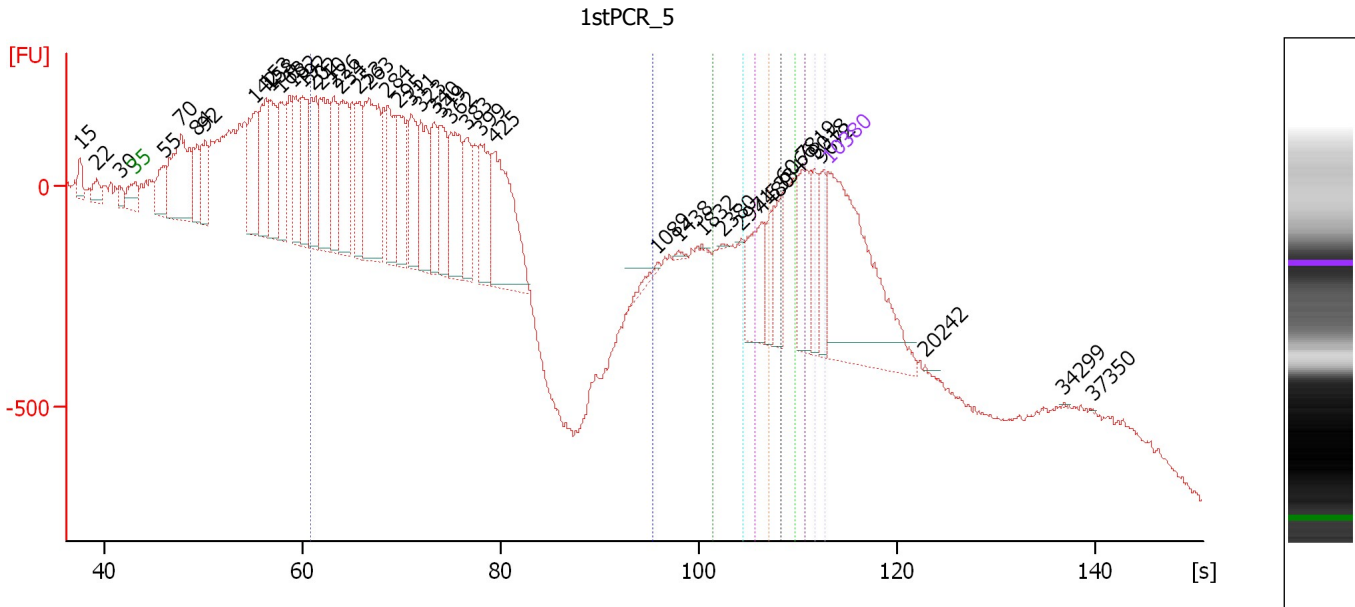
Peak table for sample 10 : 1stPCR_4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		61.65
2	0	0.00	0.0		62.35
3	0	0.00	0.0		63.20
4	0	0.00	0.0		64.45
5	0	0.00	0.0		65.75
6	0	0.00	0.0		66.80
7	0	0.00	0.0		85.85
8	0	0.00	0.0		109.65
9	0	0.00	0.0		110.65
10	0	0.00	0.0		112.00
11	0	0.00	0.0		112.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

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 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1stPCR_5

Number of peaks found:	43	Corr. Area 5:	427.6
Noise:	6.0	Corr. Area 6:	466.2
Corr. Area 1:	10,840.2	Corr. Area 7:	547.7
Corr. Area 2:	1,344.5	Corr. Area 8:	421.9
Corr. Area 3:	786.5	Corr. Area 9:	452.8
Corr. Area 4:	372.4	Corr. Area 10:	429.2

Peak table for sample 11 : 1stPCR_5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	15	0.00	0.0		37.42
2	22	0.00	0.0		39.16
3	30	0.00	0.0		41.43
4	35	125.00	5,411.3	Lower Marker	43.00
5	55	20.28	563.3		45.87
6	70	70.32	1,518.1		47.66
7	84	21.33	382.9		49.28
8	92	22.58	373.9		50.09
9	142	46.59	497.3		55.13
10	153	39.40	389.7		56.21
11	158	37.57	361.0		56.64
12	168	34.44	310.9		57.62
13	182	28.36	236.2		58.97
14	192	38.12	300.6		59.95
15	202	39.18	294.3		60.87
16	210	42.85	308.5		61.68
17	226	27.68	185.4		63.14
18	234	42.46	275.2		63.84
19	253	28.20	168.9		65.63
20	263	62.82	362.1		66.55
21	284	32.60	174.1		68.50

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad











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 Modified: 7/11/2019 1:53:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : 1stPCR 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
22	295	32.66	167.5		69.58
23	311	29.95	145.9		70.88
24	323	32.51	152.4		71.86
25	340	21.70	96.6		73.21
26	349	26.88	116.6		73.91
27	362	37.51	157.2		74.89
28	383	22.52	89.1		76.57
29	399	28.06	106.5		77.86
30	425	53.63	191.2		79.33
31	1,089	2.49	3.5		95.78
32	1,438	0.79	0.8		97.90
33	1,832	0.19	0.2		100.28
34	2,380	0.35	0.2		102.44
35	2,971	0.21	0.1		104.23
36	4,480	19.81	6.7		106.29
37	5,334	9.65	2.7		107.42
38	6,066	13.02	3.3		108.40
39	7,819	22.86	4.4		110.46
40	9,018	11.23	1.9		111.65
41	9,672	12.63	2.0		112.30
42	10,380	75.00	10.9	Upper Marker	113.00
43	20,242	0.00	0.0		122.80
44	34,299	0.00	0.0		136.77
45	37,350	0.00	0.0		139.80

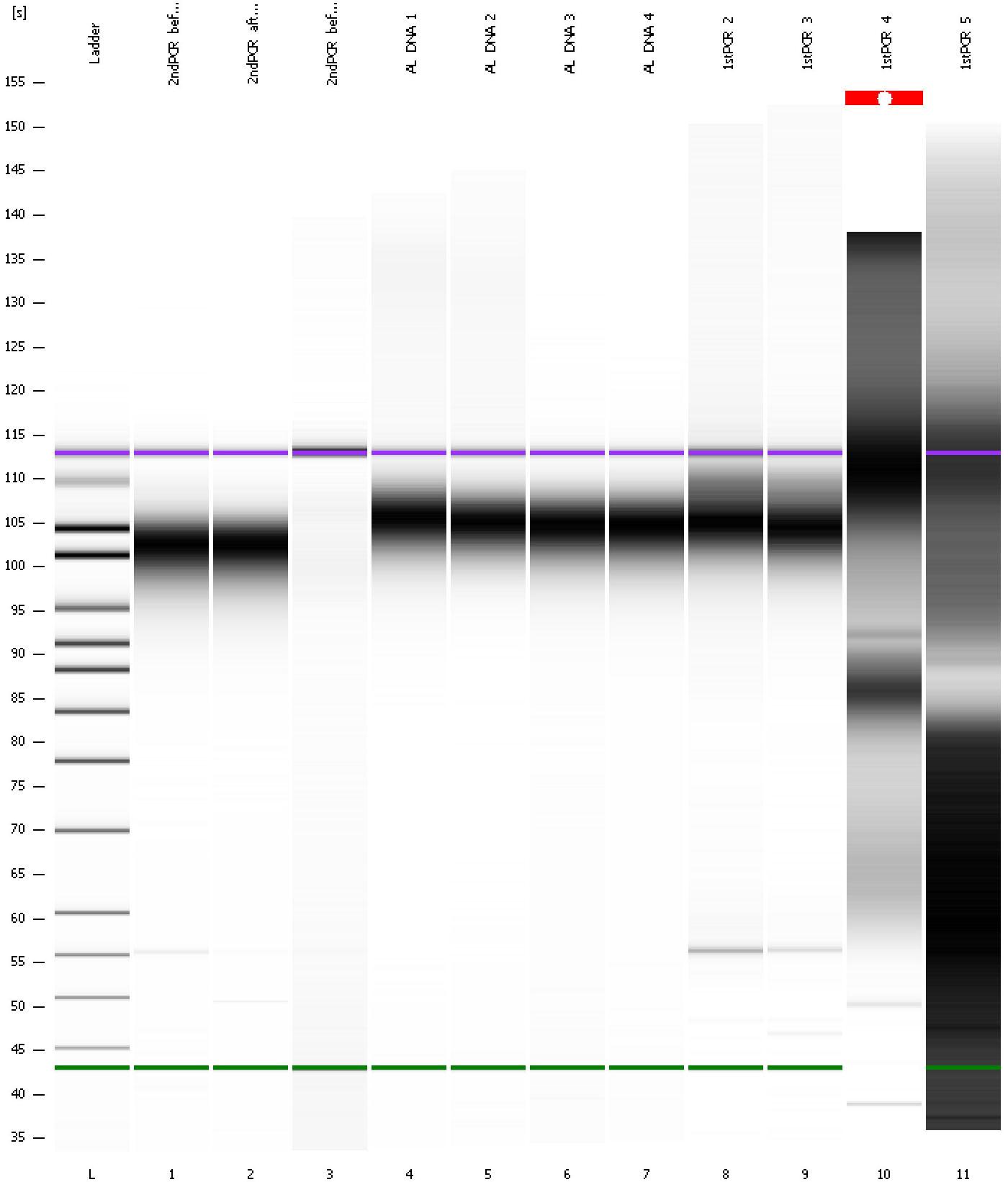
Region table for sample 11 : 1stPCR 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	343	646.60	10,840.2	3,256.4	 44	40.2
1,000	2,000	1,523	56.57	1,344.5	56.3	 5	18.9
2,000	3,000	2,501	31.35	786.5	19.0	 3	11.7
3,000	4,000	3,473	14.92	372.4	6.5	 2	8.4
4,000	5,000	4,469	17.25	427.6	5.8	 2	6.8
5,000	6,000	5,469	18.95	466.2	5.2	 2	5.3
6,000	7,000	6,462	22.43	547.7	5.3	 2	4.7
7,000	8,000	7,444	17.19	421.9	3.5	 2	4.0
8,000	9,000	8,447	18.08	452.8	3.2	 2	3.7
9,000	10,000	9,454	16.80	429.2	2.7	 2	3.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
Modified: 7/11/2019 1:53:17 PM

Gel Image

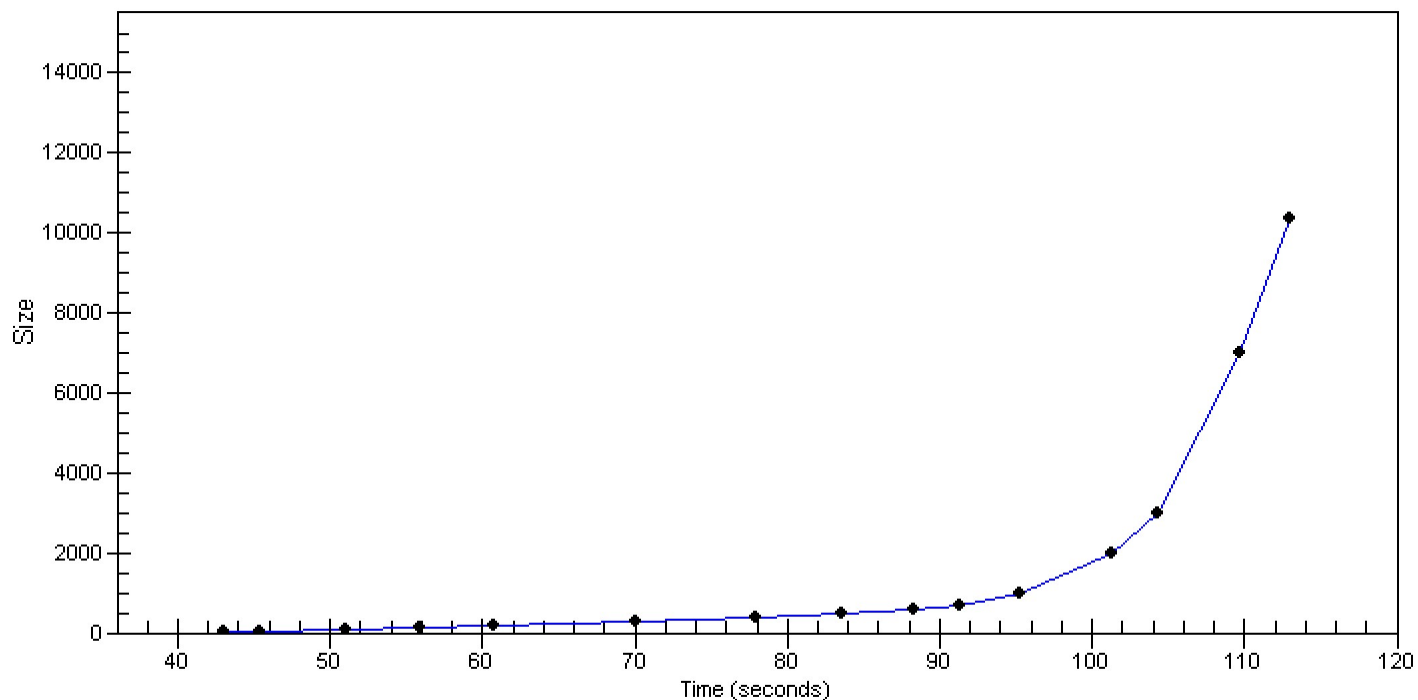


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
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Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad

Created: 7/11/2019 12:36:59 PM
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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		7/11/2019 1:18:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-11\2019-07-11_001.xad)		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/11/2019 12:37:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1