

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

Created: 11/17/2017 12:36:03 PM
Modified: 11/17/2017 1:19:40 PM

Electrophoresis File Run Summary

Instrument Information:

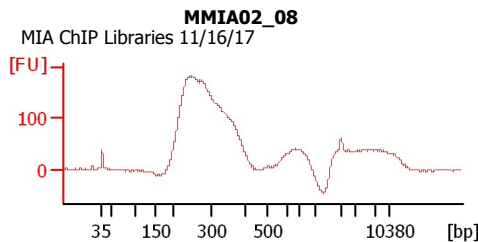
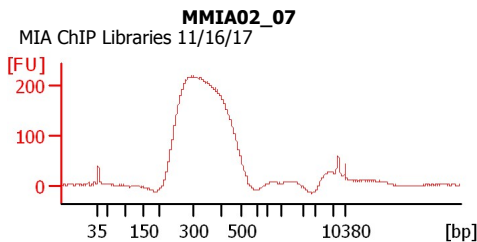
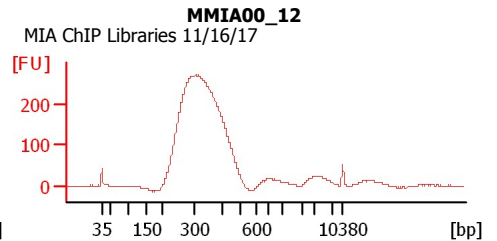
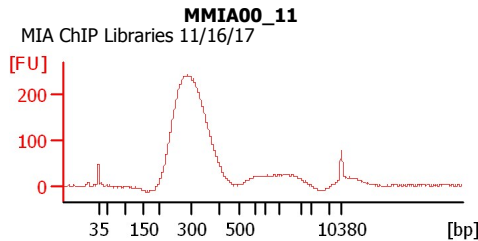
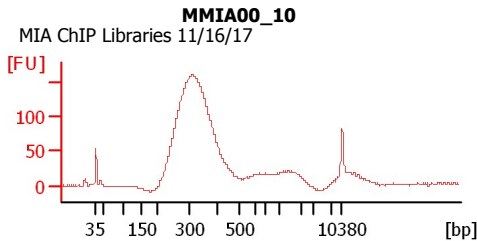
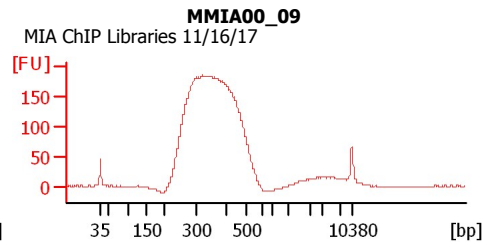
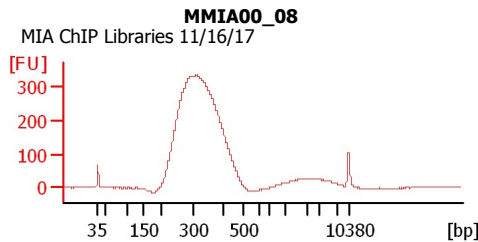
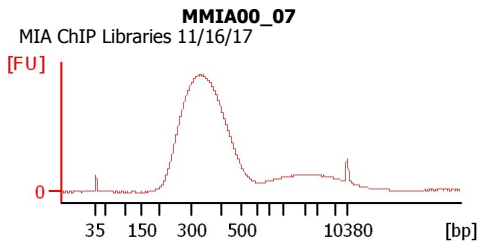
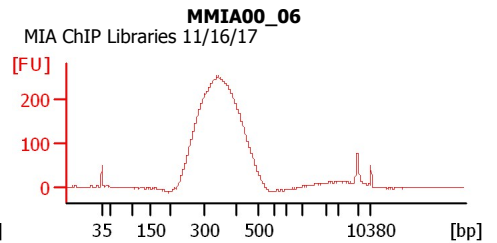
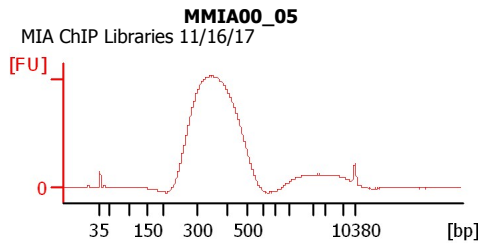
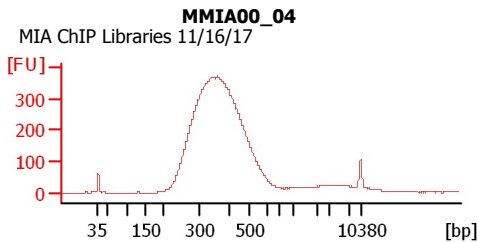
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MMIA00_04	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_05	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_06	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_07	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_08	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_09	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_10	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_11	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA00_12	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA02_07	MIA ChIP Libraries 11/16/17	<input type="checkbox"/>	✓			
MMIA02_08	MIA ChIP Libraries 11/16/17	<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

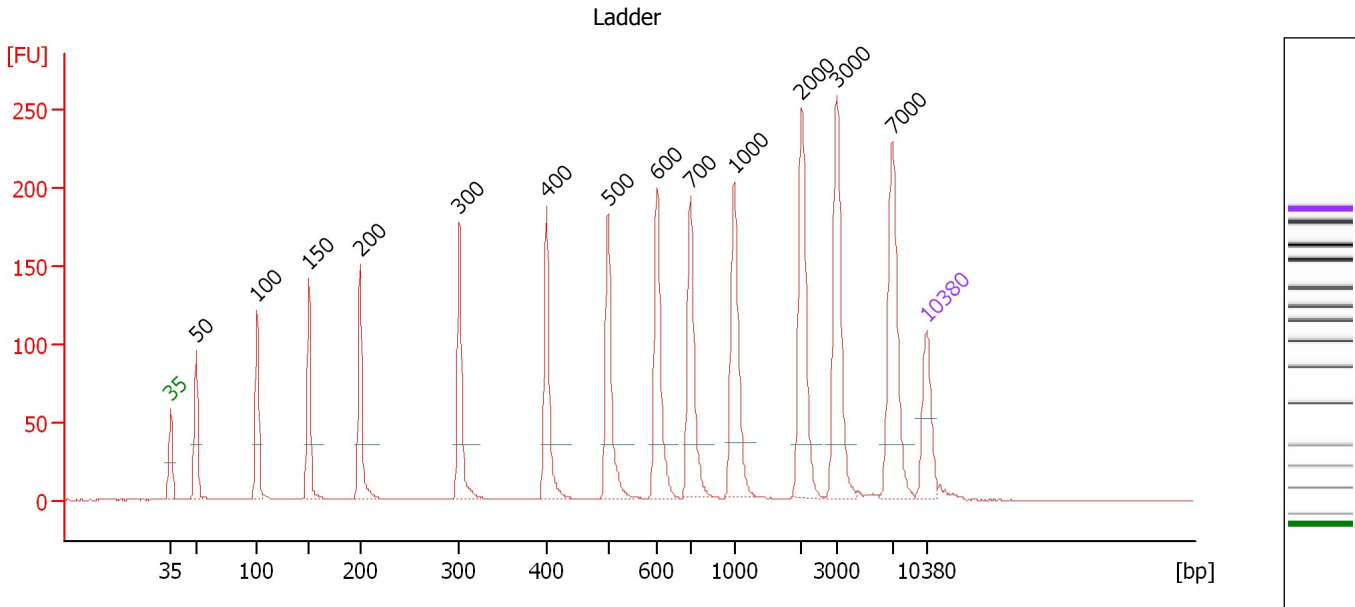
Ladder

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

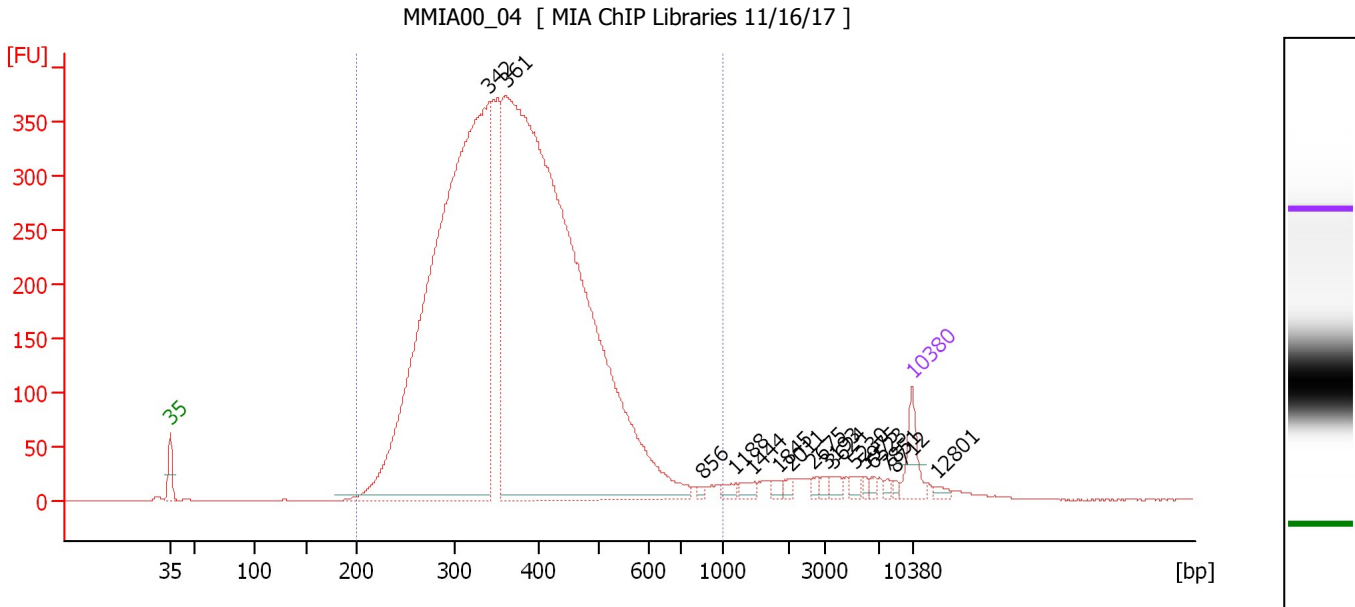
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	51.00
4	150	150.00	1,515.2	Ladder Peak	55.79
5	200	150.00	1,136.4	Ladder Peak	60.57
6	300	150.00	757.6	Ladder Peak	69.76
7	400	150.00	568.2	Ladder Peak	77.80
8	500	150.00	454.5	Ladder Peak	83.53
9	600	150.00	378.8	Ladder Peak	88.07
10	700	150.00	324.7	Ladder Peak	91.13
11	1,000	150.00	227.3	Ladder Peak	95.18
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : MMIA00_04

Number of peaks found: 16 Corr. Area 1: 7,908.8
 Noise: 0.2

Peak table for sample 1 : MMIA00_04

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	342	3,660.72	16,225.9		73.12
3	361	4,764.28	19,984.7		74.68
4	856	10.26	18.2		93.24
5	1,188	21.31	27.2		96.35
6	1,444	22.51	23.6		97.96
7	1,845	14.97	12.3		100.48
8	2,011	15.22	11.5		101.48
9	2,675	13.10	7.4		103.65
10	3,193	13.94	6.6		104.95
11	3,624	19.50	8.2		105.51
12	5,230	17.07	4.9		107.57
13	5,975	9.87	2.5		108.52
14	6,523	11.76	2.7		109.23
15	7,851	9.05	1.7		110.64
16	8,712	8.18	1.4		111.44
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,801	0.00	0.0		115.26

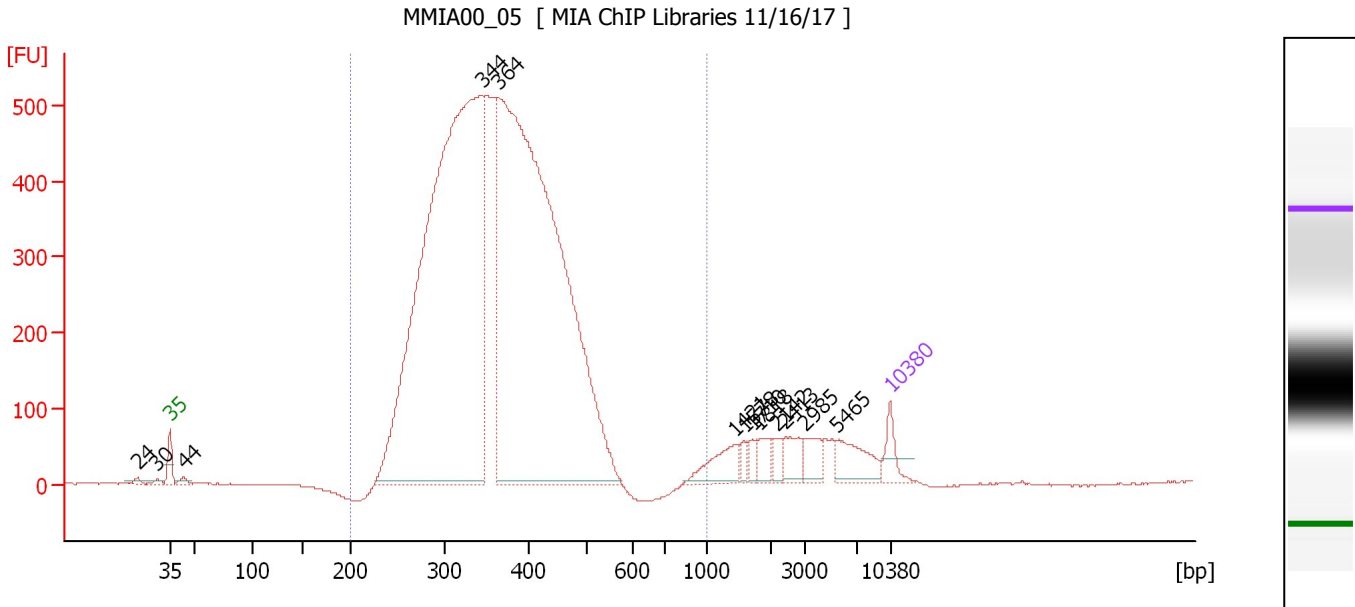
Region table for sample 1 : MMIA00_04

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	379	7,908.8	38,480.3	8,945.14	95	25.1

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Electropherogram Summary Continued ...



Overall Results for sample 2 : MMIA00_05

Number of peaks found: 13 Corr. Area 1: 10,033.3
 Noise: 0.5

Peak table for sample 2 : MMIA00_05

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	24	0.00	0.0		39.84
2	30	0.00	0.0		41.70
3	35	125.00	5,411.3	Lower Marker	43.00
4	44	28.78	1,002.0		44.35
5	344	5,233.62	23,039.5		73.31
6	364	5,240.56	21,805.4		74.92
7	1,421	136.75	145.8		97.82
8	1,578	33.16	31.8		98.80
9	1,710	33.97	30.1		99.63
10	1,818	65.98	55.0		100.31
11	2,142	40.65	28.7		101.91
12	2,413	85.86	53.9		102.79
13	2,985	87.14	44.2		104.66
14	5,465	145.11	40.2		107.87
15	10,380	75.00	10.9	Upper Marker	113.00

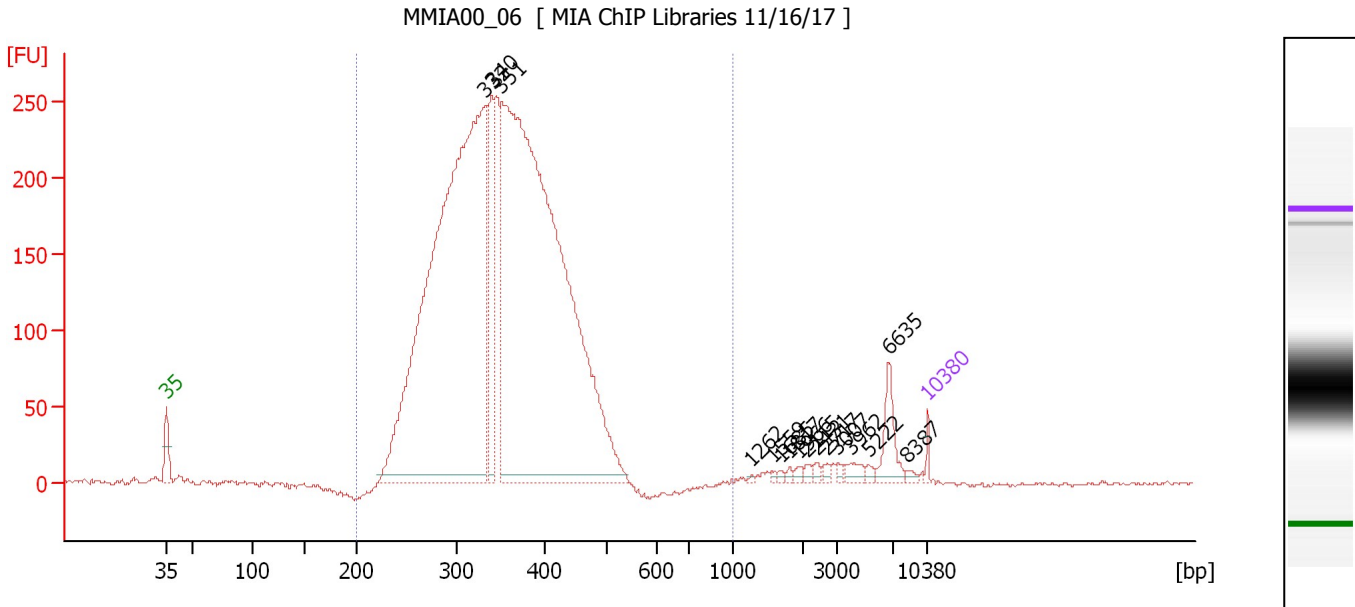
Region table for sample 2 : MMIA00_05

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	366	10,033.3	49,720.6	11,398.27	92	20.7

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Electropherogram Summary Continued ...



Overall Results for sample 3 : MMIA00_06

Number of peaks found: 16 Corr. Area 1: 4,616.8
 Noise: 1.5

Peak table for sample 3 : MMIA00_06

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	332	18,901.41	86,157.7		72.36
3	340	2,135.66	9,525.4		72.95
4	351	20,721.02	89,529.4		73.83
5	1,262	24.37	29.3		96.82
6	1,559	37.70	36.6		98.69
7	1,685	35.19	31.7		99.47
8	1,817	43.89	36.6		100.30
9	1,966	58.50	45.1		101.24
10	2,115	63.31	45.4		101.82
11	2,431	71.47	44.5		102.85
12	2,717	61.55	34.3		103.78
13	3,007	55.57	28.0		104.72
14	3,962	145.88	55.8		105.94
15	5,222	64.92	18.8		107.56
16	6,635	525.50	120.0		109.37
17	8,387	51.52	9.3		111.14
18	10,380	75.00	10.9	Upper Marker	113.00

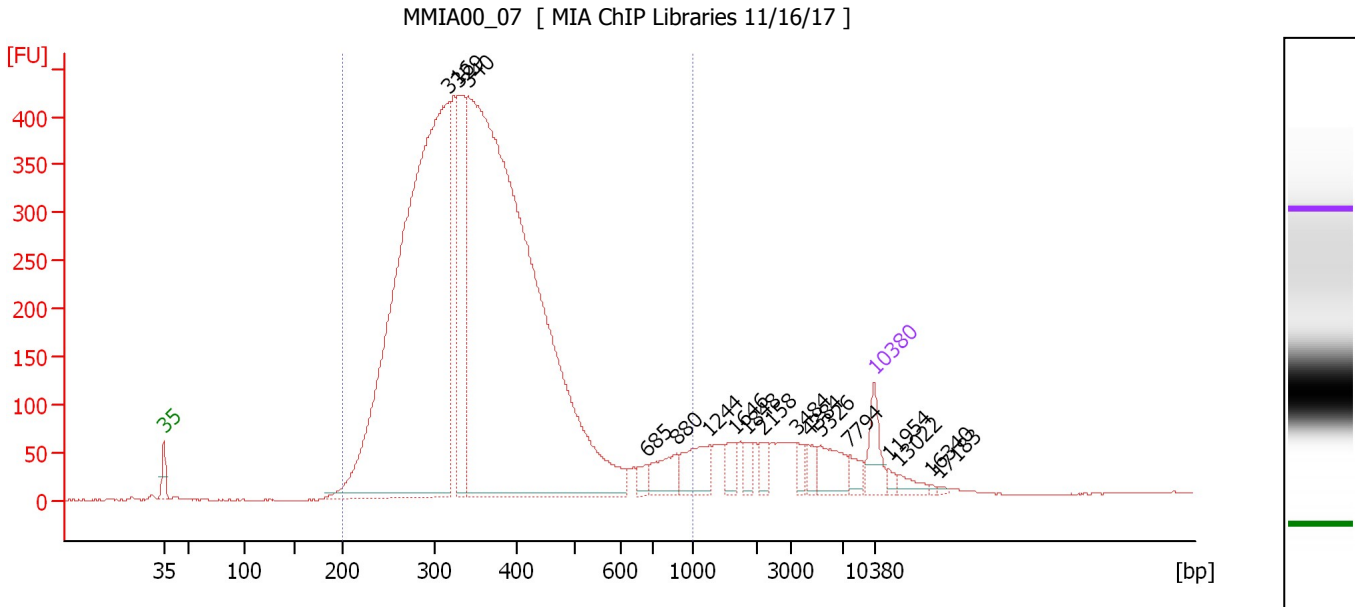
Region table for sample 3 : MMIA00_06

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	351	4,616.8	196,136.9	43,648.41	95	17.5

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Electropherogram Summary Continued ...



Overall Results for sample 4 : MMIA00_07

Number of peaks found: 17 Corr. Area 1: 8,767.4
 Noise: 0.7

Peak table for sample 4 : MMIA00_07

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	316	3,149.45	15,089.3		71.06
3	329	513.20	2,366.0		72.06
4	340	3,975.66	17,729.6		72.95
5	685	32.29	71.4		90.67
6	880	93.51	161.1		93.56
7	1,244	110.21	134.2		96.71
8	1,646	47.57	43.8		99.23
9	1,848	29.77	24.4		100.49
10	2,158	35.63	25.0		101.96
11	3,484	30.42	13.2		105.33
12	4,384	31.10	10.7		106.48
13	5,326	82.87	23.6		107.69
14	7,794	32.83	6.4		110.58
15	10,380	75.00	10.9	Upper Marker	113.00
16	11,954	0.00	0.0		114.47
17	13,022	0.00	0.0		115.47
18	16,340	0.00	0.0		118.57
19	17,183	0.00	0.0		119.36

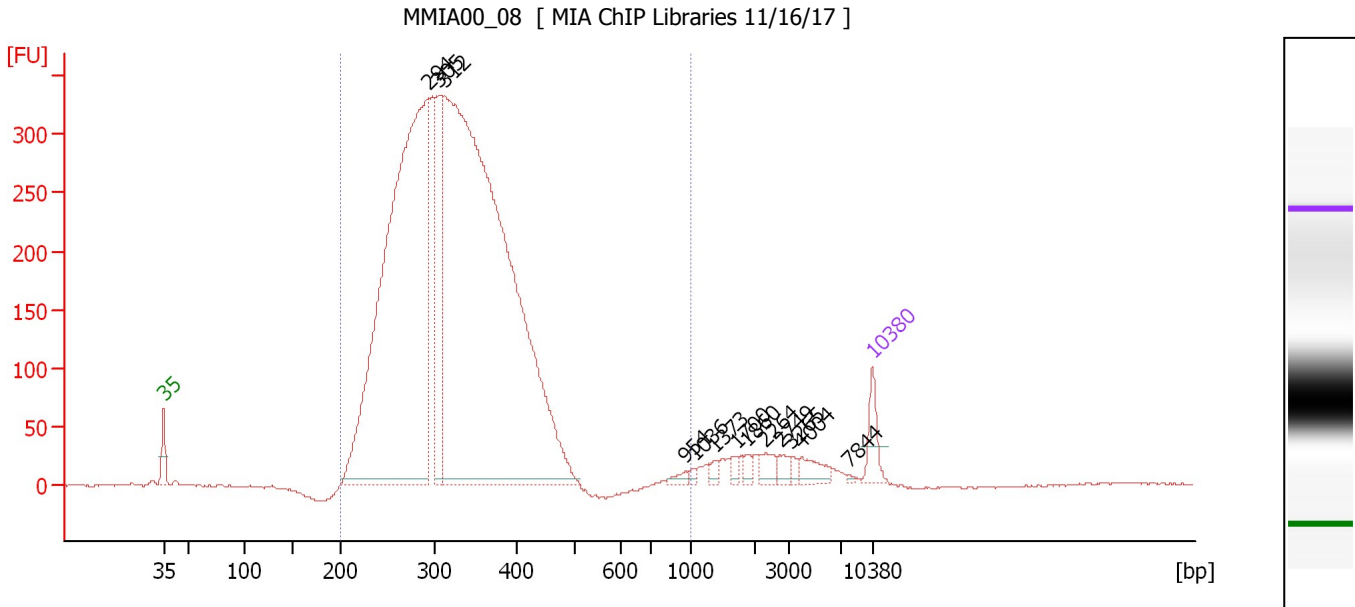
Region table for sample 4 : MMIA00_07

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	366	8,767.4	37,005.8	8,155.89	90	31.2

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Electropherogram Summary Continued ...



Overall Results for sample 5 : MMIA00_08

Number of peaks found: 13 Corr. Area 1: 6,256.1
 Noise: 0.7

Peak table for sample 5 : MMIA00_08

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	294	3,390.23	17,489.6		69.18
3	305	468.82	2,332.0		70.13
4	312	4,943.24	23,971.1		70.76
5	954	19.16	30.4		94.57
6	1,036	10.50	15.3		95.41
7	1,373	19.96	22.0		97.51
8	1,700	18.22	16.2		99.57
9	1,860	21.29	17.3		100.57
10	2,264	40.50	27.1		102.31
11	2,749	28.77	15.9		103.89
12	3,265	14.14	6.6		105.05
13	4,004	54.38	20.6		105.99
14	7,844	5.12	1.0		110.63
15	10,380	75.00	10.9	Upper Marker	113.00

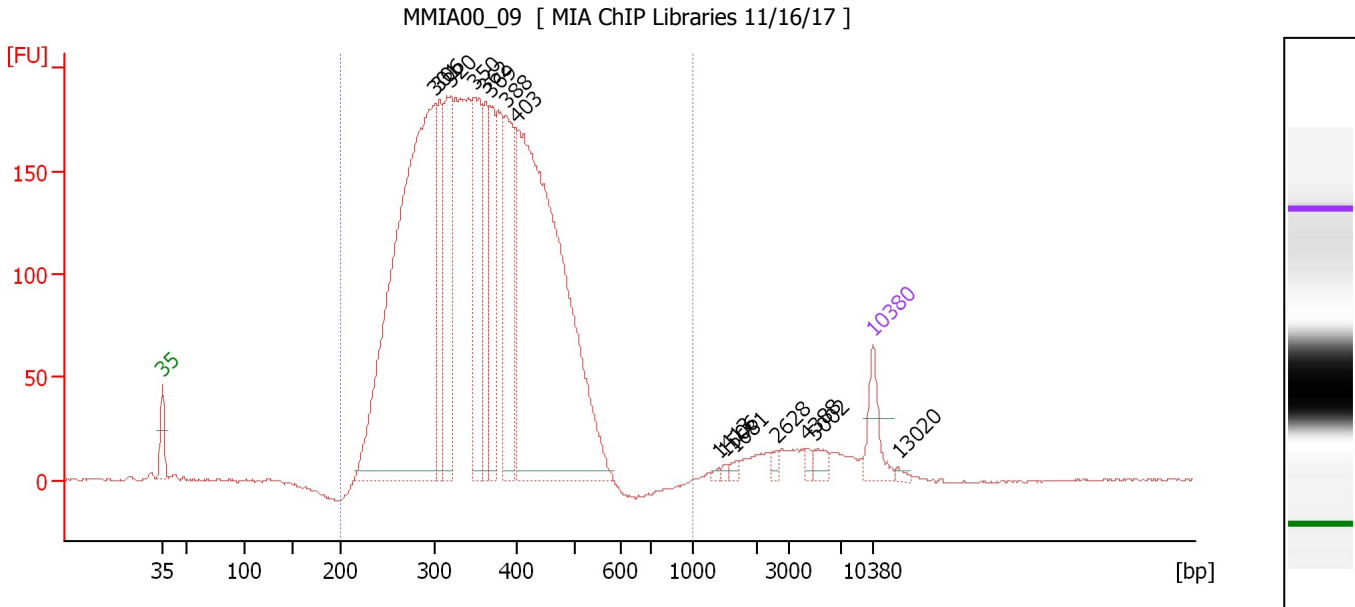
Region table for sample 5 : MMIA00_08

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	326	6,256.1	43,878.9	8,986.01	95	22.0

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Electropherogram Summary Continued ...



Overall Results for sample 6 : MMIA00_09

Number of peaks found: 15 Corr. Area 1: 4,288.5
 Noise: 0.4

Peak table for sample 6 : MMIA00_09

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	301	2,017.14	10,154.7		69.83
3	306	291.83	1,444.1		70.25
4	320	417.71	1,978.4		71.36
5	350	388.00	1,680.0		73.77
6	362	254.92	1,066.0		74.77
7	369	248.97	1,022.7		75.30
8	388	407.77	1,593.3		76.82
9	403	1,678.80	6,311.9		77.97
10	1,413	5.98	6.4		97.77
11	1,506	6.11	6.2		98.35
12	1,681	10.71	9.7		99.45
13	2,628	11.20	6.5		103.50
14	4,388	11.84	4.1		106.49
15	5,002	25.08	7.6		107.28
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,020	0.00	0.0		115.47

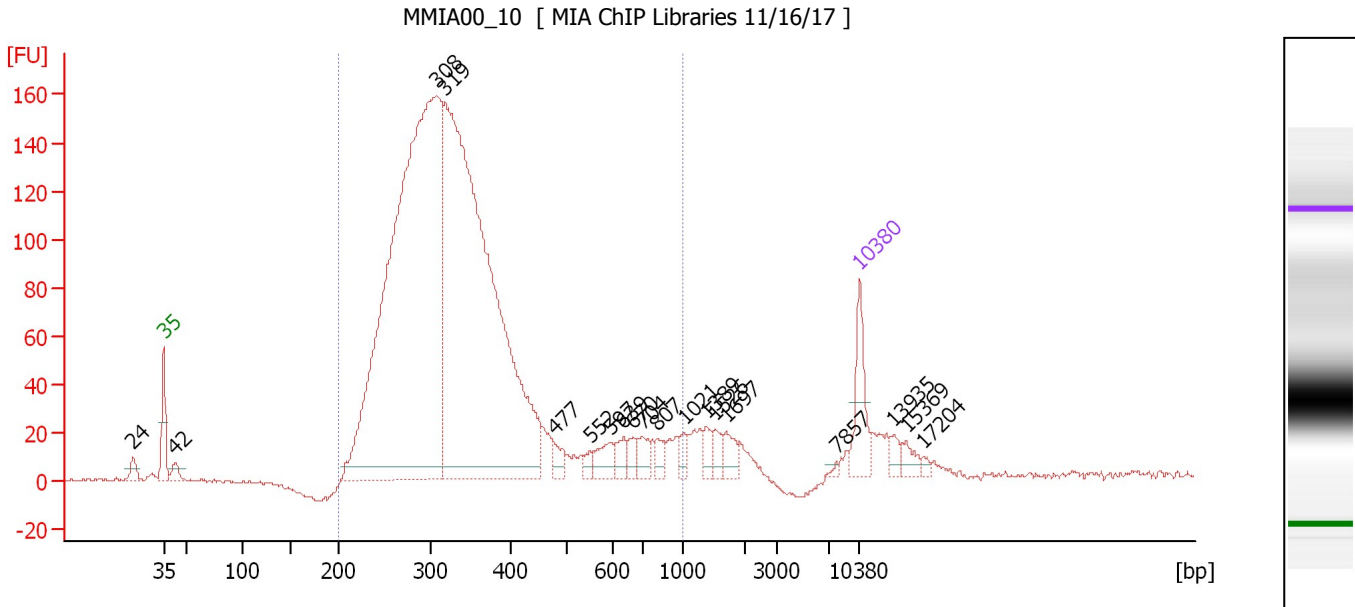
Region table for sample 6 : MMIA00_09

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	360	4,288.5	30,274.7	6,771.47	96	20.8

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Electropherogram Summary Continued ...



Overall Results for sample 7 : MMIA00_10

Number of peaks found: 19 Corr. Area 1: 2,680.6
 Noise: 0.8

Peak table for sample 7 : MMIA00_10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	24	0.00	0.0		39.94
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	30.39	1,084.4		44.18
4	308	2,045.81	10,068.4		70.39
5	319	1,827.64	8,693.7		71.25
6	477	26.61	84.5		82.23
7	552	15.37	42.2		85.88
8	597	40.79	103.6		87.92
9	639	29.00	68.8		89.26
10	670	22.81	51.6		90.22
11	704	30.75	66.2		91.19
12	807	21.65	40.6		92.58
13	1,021	16.47	24.4		95.31
14	1,389	20.90	22.8		97.62
15	1,526	21.45	21.3		98.47
16	1,697	28.09	25.1		99.55
17	7,857	3.97	0.8		110.64
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,935	0.00	0.0		116.32
20	15,369	0.00	0.0		117.66
21	17,204	0.00	0.0		119.38

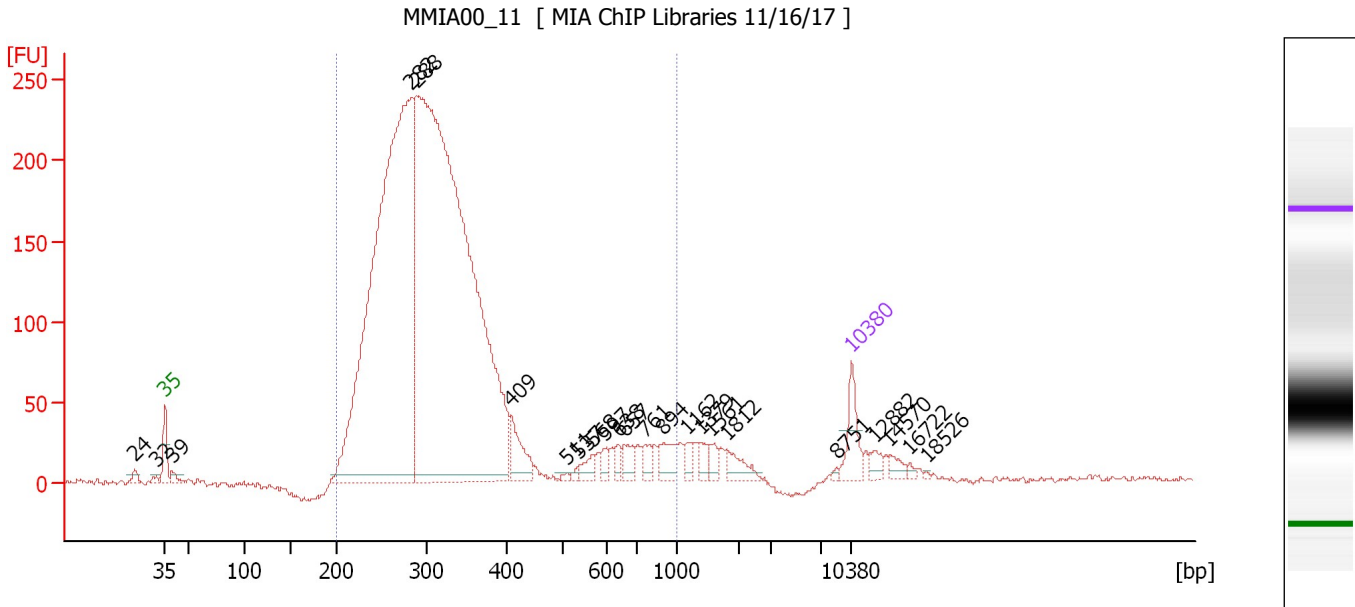
Region table for sample 7 : MMIA00_10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	351	2,680.6	19,683.5	4,138.85	92	34.6

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Electropherogram Summary Continued ...



Overall Results for sample 8 : MMIA00_11

Number of peaks found: 23 Corr. Area 1: 3,945.0
 Noise: 1.3

Peak table for sample 8 : MMIA00_11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	24	0.00	0.0		39.90
2	32	0.00	0.0		42.13
3	35	125.00	5,411.3	Lower Marker	43.00
4	39	31.33	1,213.1		43.65
5	282	2,757.37	14,800.7		68.13
6	288	3,778.84	19,907.7		68.62
7	409	110.12	408.3		78.30
8	511	8.64	25.6		84.01
9	537	11.42	32.2		85.21
10	568	33.58	89.6		86.62
11	597	26.62	67.6		87.93
12	638	23.75	56.4		89.23
13	657	44.10	101.6		89.83
14	761	34.10	67.9		91.95
15	894	59.94	101.6		93.75
16	1,162	26.02	33.9		96.19
17	1,379	26.23	28.8		97.55
18	1,561	25.39	24.7		98.70
19	1,812	45.25	37.8		100.27
20	8,751	4.41	0.8		111.48
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,882	0.00	0.0		115.34
23	14,570	0.00	0.0		116.92
24	16,722	0.00	0.0		118.93
25	18,526	0.00	0.0		120.61

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

Created: 11/17/2017 12:36:03 PM
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Electropherogram Summary Continued ...

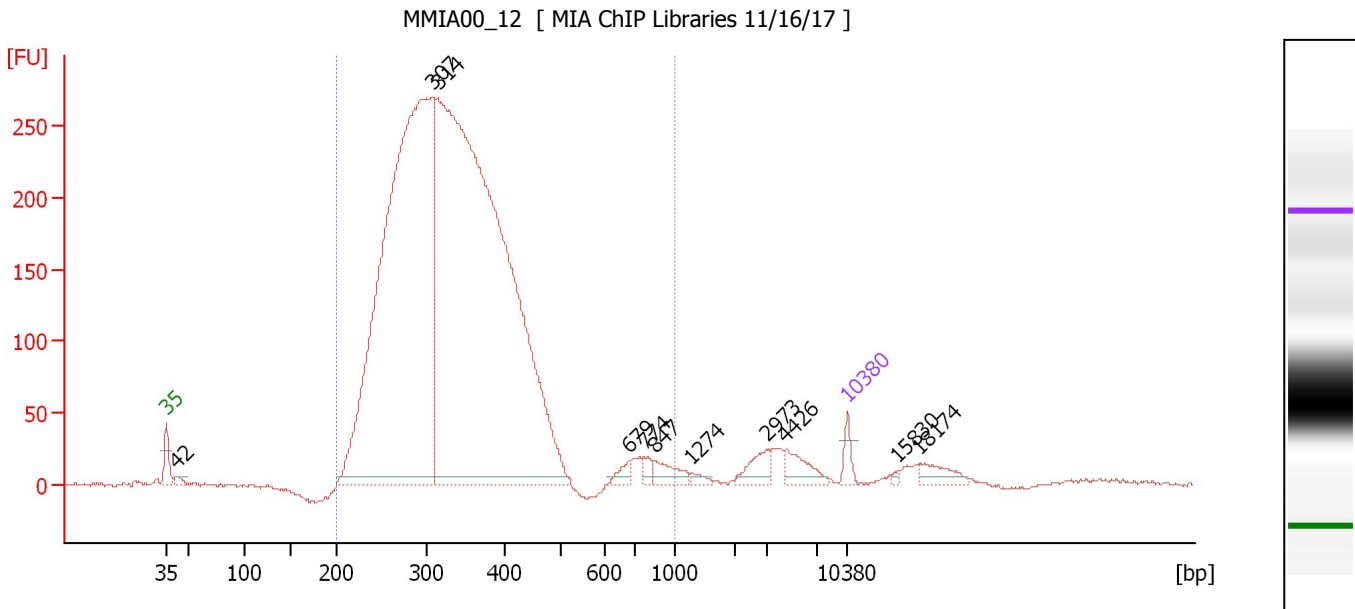
... Region table for sample 8 : MMIA00_11

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	332	3,945.0	34,166.9	6,787.16	93	36.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : MMIA00_12

Number of peaks found: 11 Corr. Area 1: 5,241.3
 Noise: 1.4

Peak table for sample 9 : MMIA00_12

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	42	53.21	1,922.4		44.10
3	307	7,971.33	39,321.3		70.33
4	314	10,441.03	50,387.3		70.88
5	679	74.03	165.2		90.49
6	774	55.78	109.2		92.13
7	847	134.76	241.0		93.12
8	1,274	34.68	41.2		96.90
9	2,973	127.46	65.0		104.62
10	4,426	148.18	50.7		106.54
11	10,380	75.00	10.9	Upper Marker	113.00
12	15,830	0.00	0.0		118.09
13	18,174	0.00	0.0		120.28

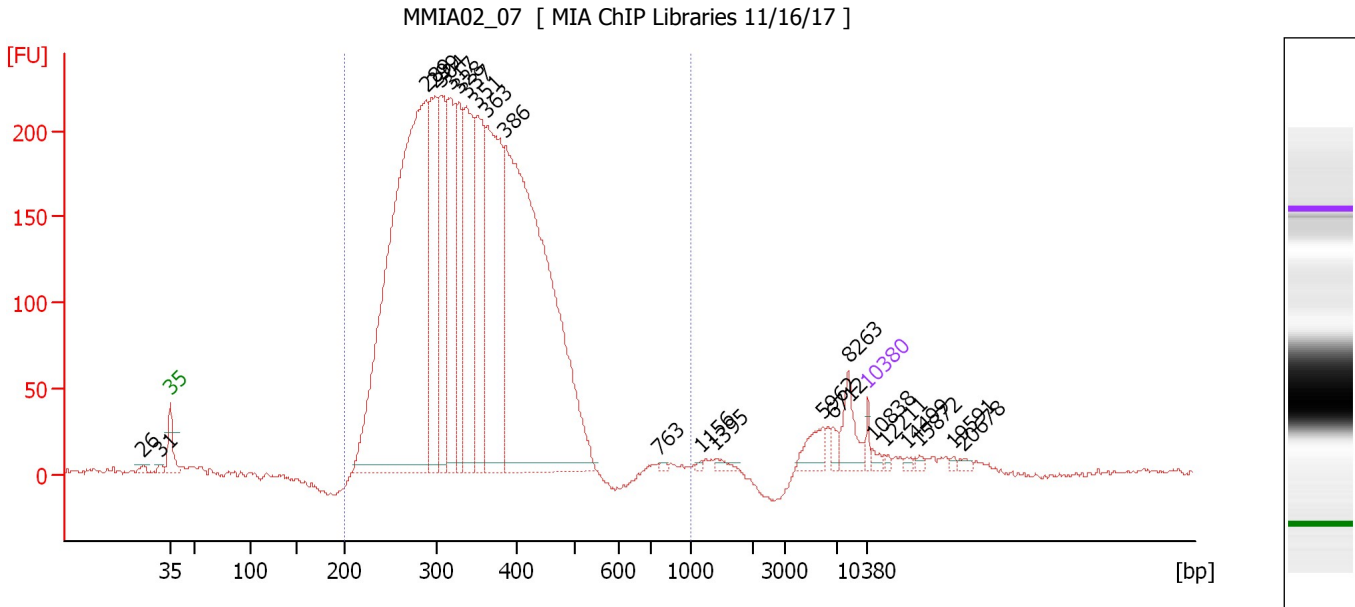
Region table for sample 9 : MMIA00_12

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	341	5,241.3	86,865.4	18,244.37	94	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : MMIA02_07

Number of peaks found: 23 Corr. Area 1: 4,780.2
 Noise: 1.1

Peak table for sample 10 : MMIA02_07

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	26	0.00	0.0		40.33
2	31	0.00	0.0		41.98
3	35	125.00	5,411.3	Lower Marker	43.00
4	289	11,646.14	61,113.0		68.72
5	299	2,342.98	11,887.1		69.63
6	304	2,180.24	10,851.2		70.11
7	317	2,231.43	10,663.6		71.13
8	328	1,768.43	8,176.8		71.98
9	337	2,431.78	10,933.5		72.73
10	351	2,180.44	9,413.6		73.86
11	363	3,634.25	15,173.0		74.82
12	386	9,703.06	38,135.7		76.64
13	763	38.33	76.1		91.98
14	1,156	21.57	28.3		96.16
15	1,395	69.34	75.3		97.65
16	5,962	283.35	72.0		108.51
17	6,712	105.35	23.8		109.47
18	8,263	384.85	70.6		111.02
19	10,380	75.00	10.9	Upper Marker	113.00
20	10,838	0.00	0.0		113.43
21	12,211	0.00	0.0		114.71
22	14,499	0.00	0.0		116.85
23	15,872	0.00	0.0		118.13
24	19,591	0.00	0.0		121.61
25	20,678	0.00	0.0		122.63

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

Created: 11/17/2017 12:36:03 PM
Modified: 11/17/2017 1:19:40 PM

Electropherogram Summary Continued ...

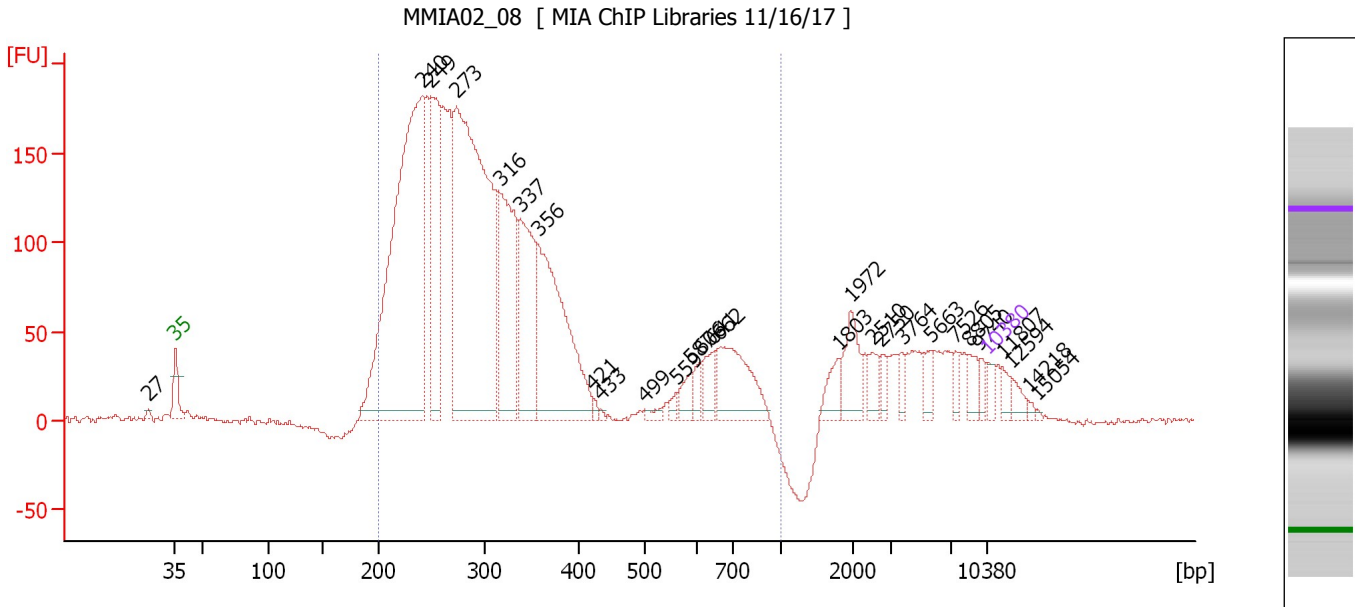
... Region table for sample 10 : MMIA02_07

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	346	4,780.2	180,772.1	38,833.13	94	22.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : MMIA02_08

Number of peaks found: 28 Corr. Area 1: 3,740.3
 Noise: 1.2

Peak table for sample 11 : MMIA02_08

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.70
2	35	125.00	5,411.3	Lower Marker	43.00
3	240	4,849.36	30,612.5		64.25
4	249	1,401.10	8,541.7		65.03
5	273	4,559.81	25,346.4		67.24
6	316	1,351.99	6,491.2		71.01
7	337	1,140.19	5,130.5		72.71
8	356	1,808.38	7,693.2		74.27
9	421	34.61	124.5		79.01
10	433	14.87	52.0		79.70
11	499	46.32	140.6		83.47
12	559	41.53	112.7		86.19
13	587	125.11	323.0		87.47
14	606	111.89	279.7		88.26
15	641	189.97	449.3		89.31
16	662	635.08	1,454.3		89.96
17	1,803	149.80	125.9		100.21
18	1,972	279.14	214.5		101.27
19	2,510	121.84	73.5		103.11
20	2,750	70.56	38.9		103.89
21	3,764	71.69	28.9		105.69
22	5,663	100.77	27.0		108.12
23	7,526	70.87	14.3		110.33
24	8,805	104.15	17.9		111.53
25	9,740	59.32	9.2		112.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 11 : MMIA02_08

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	11,807	0.00	0.0		114.33
28	12,594	0.00	0.0		115.07
29	14,218	0.00	0.0		116.59
30	15,054	0.00	0.0		117.37

Region table for sample 11 : MMIA02_08

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	326	3,740.3	96,867.3	18,363.46	85	39.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17_002.xad

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