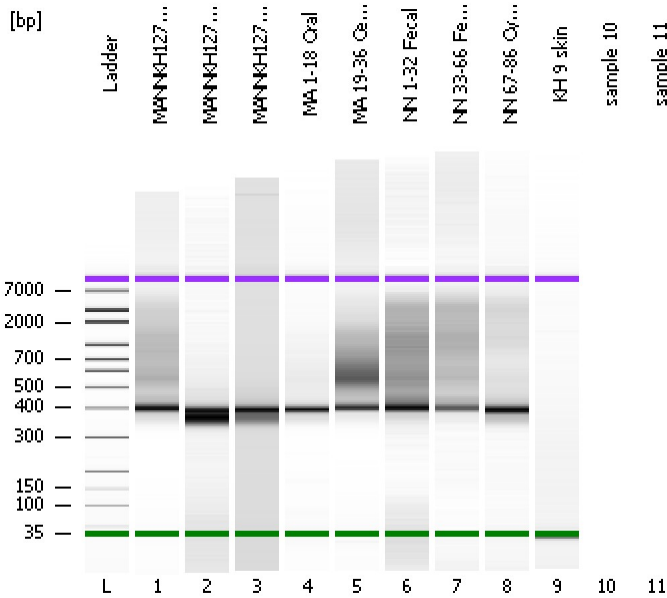


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
Modified: 6/20/2017 4:38:42 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

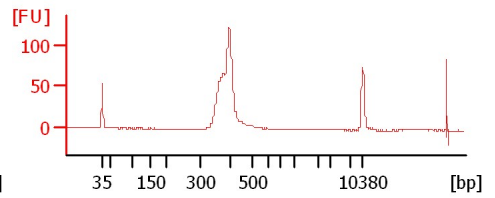
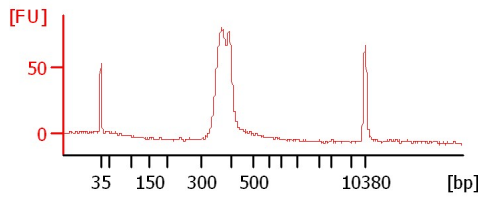
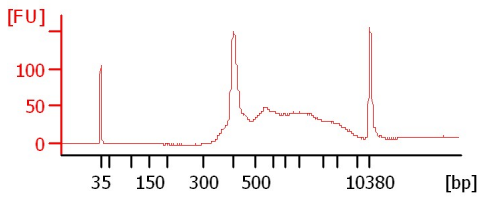
Chip Information:

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

MANNKH127 Clean Pool

MANNKH127 Pippin 1

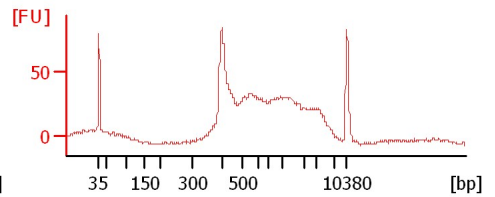
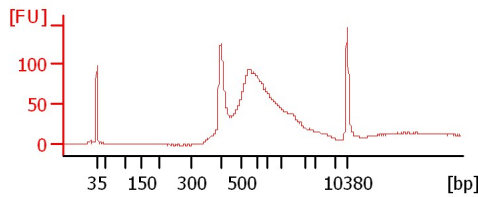
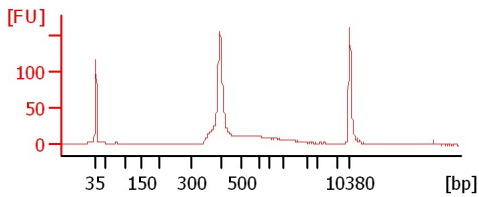
MANNKH127 Pippin 2



MA 1-18 Oral

MA 19-36 Cecum

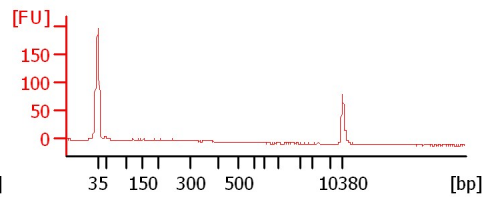
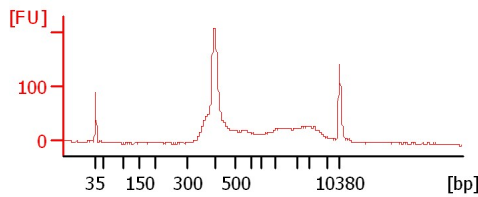
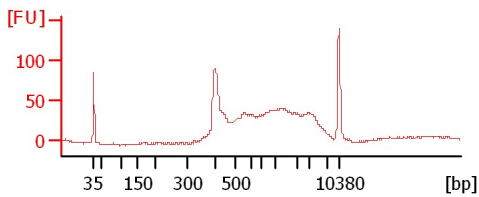
NN 1-32 Fecal



NN 33-66 Fecal

NN 67-86 Cytobrush

KH 9 skin



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MANNKH127 Clean Pool		<input type="checkbox"/>	✓			
MANNKH127 Pippin 1		<input type="checkbox"/>	✓			
MANNKH127 Pippin 2		<input type="checkbox"/>	✓			
MA 1-18 Oral		<input type="checkbox"/>	✓			
MA 19-36 Cecum		<input type="checkbox"/>	✓			
NN 1-32 Fecal		<input type="checkbox"/>	✓			
NN 33-66 Fecal		<input type="checkbox"/>	✓			
NN 67-86 Cytobrush		<input type="checkbox"/>	✓			
KH 9 skin		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

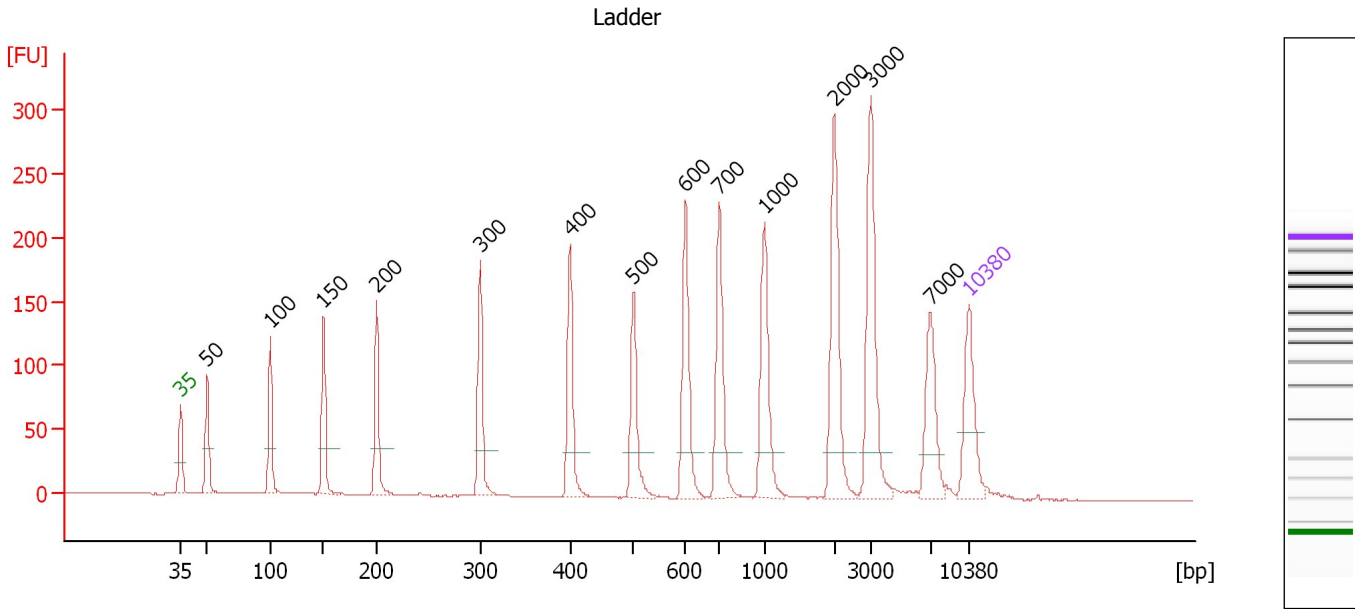
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

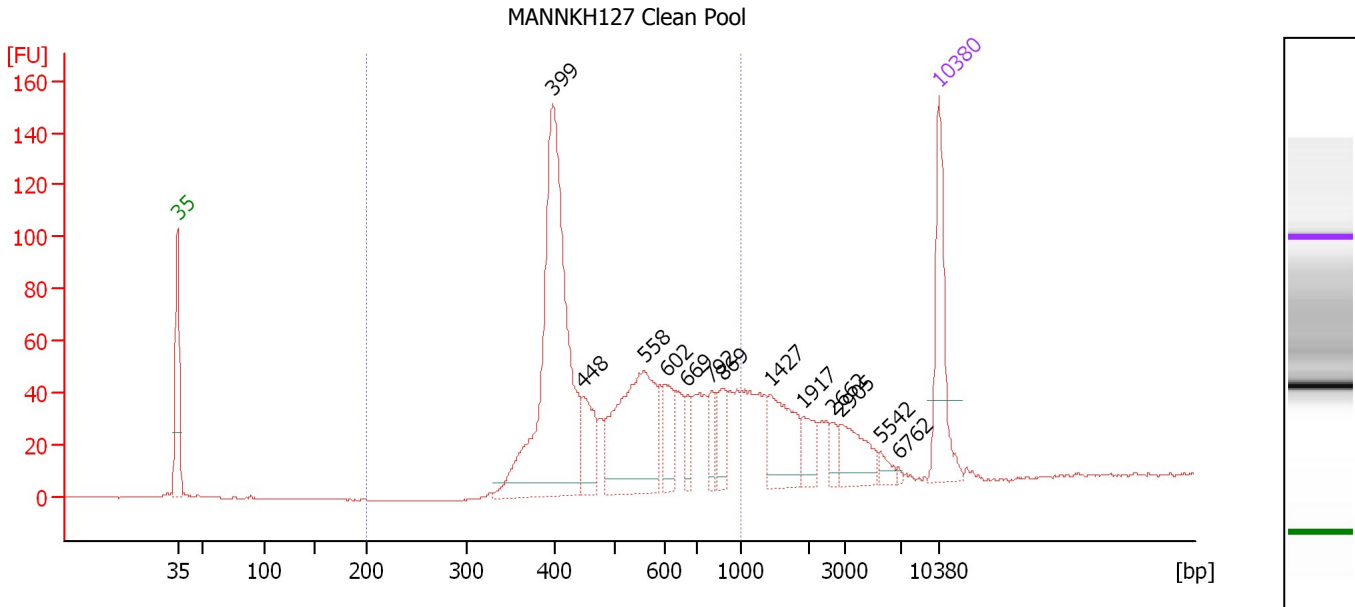
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.69
5	200	150.00	1,136.4	Ladder Peak	60.43
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.62
8	500	150.00	454.5	Ladder Peak	83.21
9	600	150.00	378.8	Ladder Peak	87.85
10	700	150.00	324.7	Ladder Peak	90.83
11	1,000	150.00	227.3	Ladder Peak	94.86
12	2,000	150.00	113.6	Ladder Peak	101.06
13	3,000	150.00	75.8	Ladder Peak	104.29
14	7,000	150.00	32.5	Ladder Peak	109.59
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MANNKH127 Clean Pool

Number of peaks found: 13 Corr. Area 1: 1,066.0
 Noise: 0.2

Peak table for sample 1 : MANNKH127 Clean Pool

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	399	414.25	1,574.6		77.51
3	448	53.70	181.6		80.30
4	558	175.50	476.7		85.89
5	602	38.82	97.7		87.90
6	669	20.13	45.6		89.91
7	792	21.12	40.4		92.07
8	869	27.98	48.8		93.10
9	1,427	64.97	69.0		97.51
10	1,917	22.67	17.9		100.55
11	2,662	11.21	6.4		103.20
12	2,905	39.93	20.8		103.98
13	5,542	8.84	2.4		107.66
14	6,762	1.91	0.4		109.27
15	10,380	75.00	10.9	Upper Marker	113.00

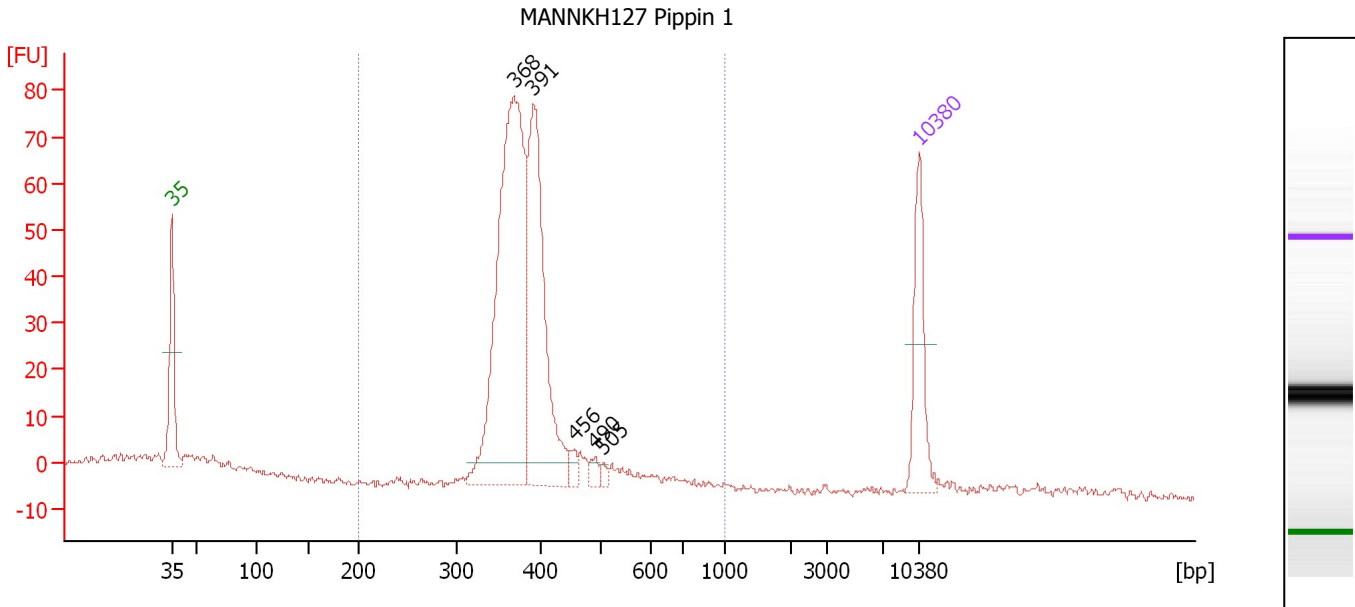
Region table for sample 1 : MANNKH127 Clean Pool

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	542	1,066.0	2,610.0	843.66	75	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MANNKH127 Pippin 1

Number of peaks found: 5 Corr. Area 1: 532.8
 Noise: 0.8

Peak table for sample 2 : MANNKH127 Pippin 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	368	521.11	2,147.9		75.03
3	391	299.85	1,162.9		76.88
4	456	12.32	41.0		80.72
5	490	10.87	33.6		82.67
6	505	6.22	18.7		83.42
7	10,380	75.00	10.9	Upper Marker	113.00

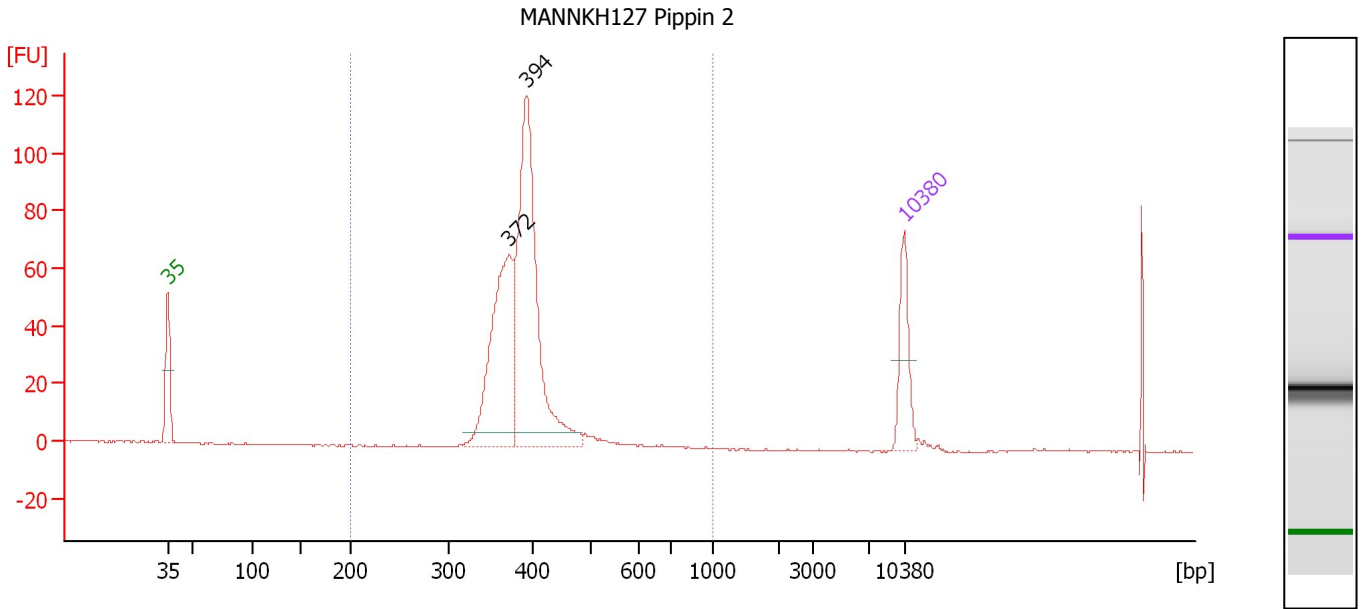
Region table for sample 2 : MANNKH127 Pippin 1

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	383	532.8	3,308.8	829.55	92	9.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MANNKH127 Pippin 2

Number of peaks found: 2 Corr. Area 1: 555.4
 Noise: 0.2

Peak table for sample 3 : MANNKH127 Pippin 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	372	340.32	1,385.7		75.39
3	394	519.85	2,000.9		77.11
4	10,380	75.00	10.9	Upper Marker	113.00

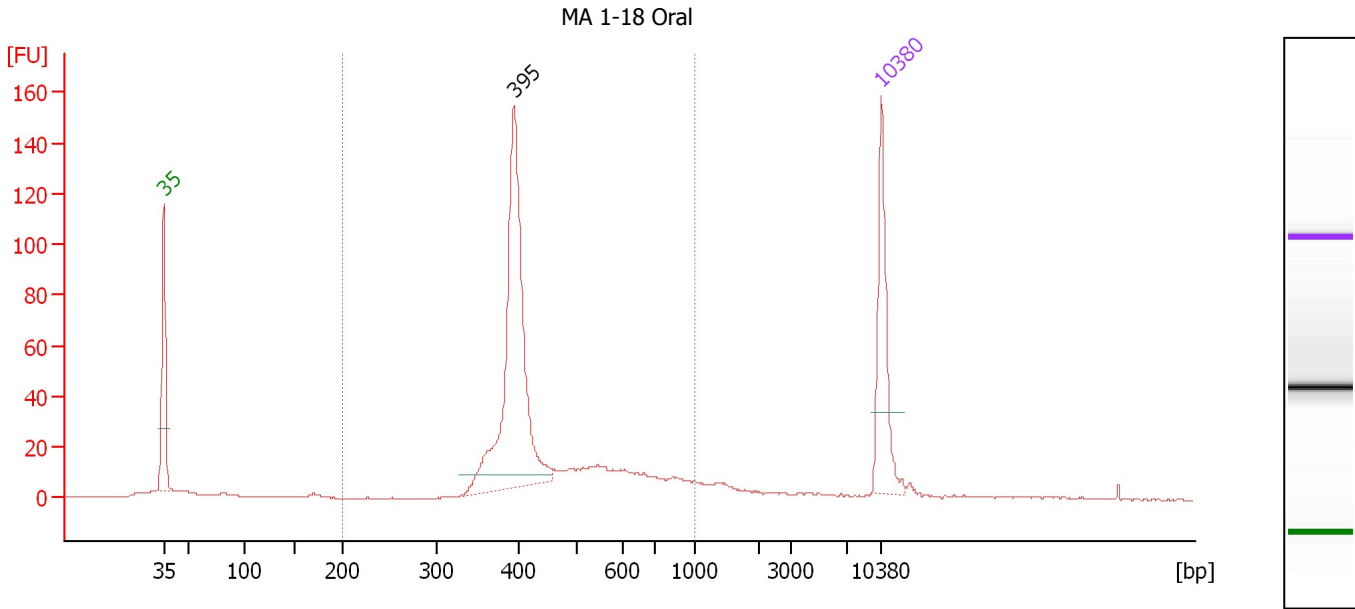
Region table for sample 3 : MANNKH127 Pippin 2

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	390	555.4	3,436.1	877.69	97	9.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MA 1-18 Oral

Number of peaks found: 1 Corr. Area 1: 589.9
 Noise: 0.2

Peak table for sample 4 : MA 1-18 Oral

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	395	311.20	1,193.7		77.22
3	10,380	75.00	10.9	Upper Marker	113.00

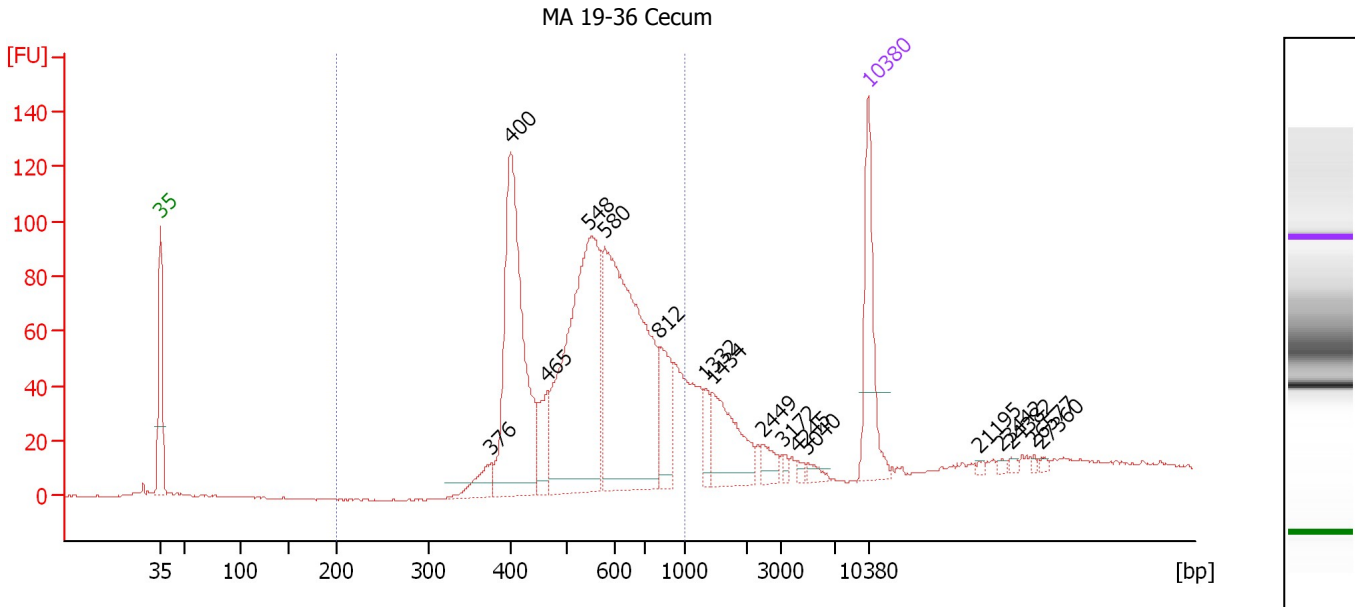
Region table for sample 4 : MA 1-18 Oral

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	464	589.9	1,667.8	476.01	83	27.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MA 19-36 Cecum

Number of peaks found: 17 Corr. Area 1: 1,311.1
 Noise: 0.3

Peak table for sample 5 : MA 19-36 Cecum

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	376	28.03	112.8		75.73
3	400	292.89	1,108.9		77.63
4	465	42.63	138.8		81.27
5	548	334.32	924.5		85.43
6	580	359.71	940.2		86.91
7	812	58.38	108.9		92.34
8	1,332	16.90	19.2		96.92
9	1,434	73.18	77.3		97.56
10	2,449	14.67	9.1		102.51
11	3,172	4.15	2.0		104.51
12	4,245	3.54	1.3		105.94
13	5,040	6.54	2.0		106.99
14	10,380	75.00	10.9	Upper Marker	113.00
15	21,195	0.00	0.0		123.91
16	23,442	0.00	0.0		126.18
17	24,382	0.00	0.0		127.13
18	26,577	0.00	0.0		129.34
19	27,360	0.00	0.0		130.13

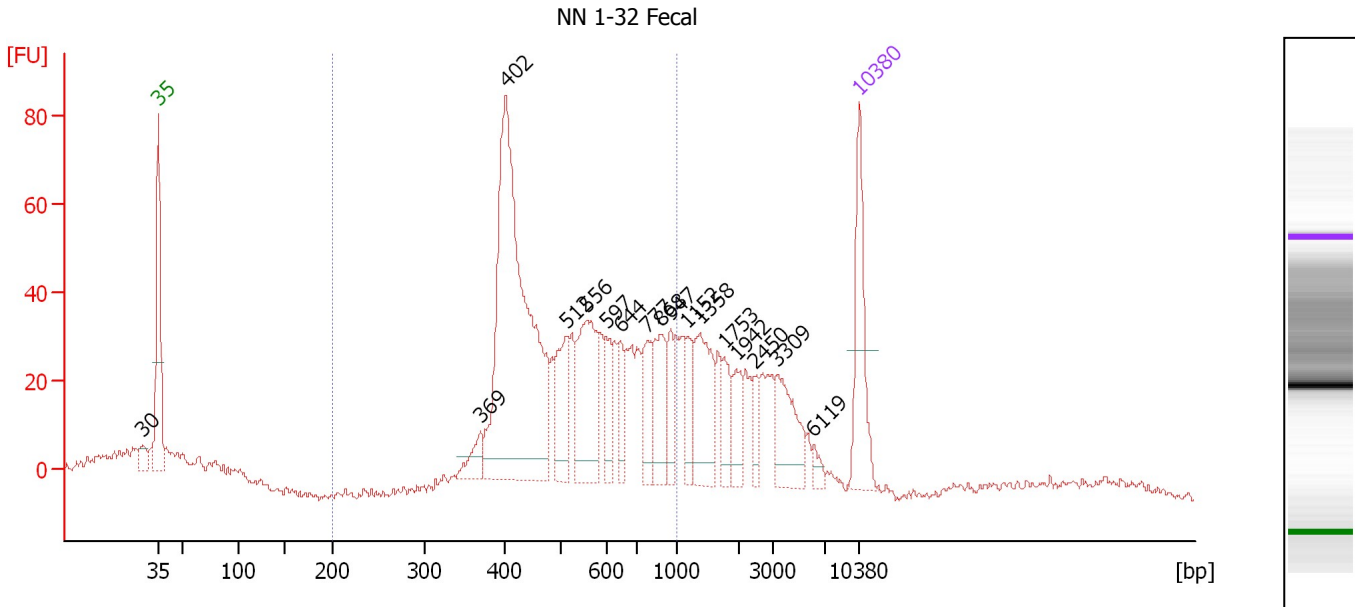
Region table for sample 5 : MA 19-36 Cecum

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	576	1,311.1	3,044.5	1,071.19	83	25.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NN 1-32 Fecal

Number of peaks found: 17 Corr. Area 1: 830.0
 Noise: 1.1

Peak table for sample 6 : NN 1-32 Fecal

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.51
2	35	125.00	5,411.3	Lower Marker	43.00
3	369	27.36	112.3		75.15
4	402	497.73	1,878.1		77.71
5	512	71.04	210.2		83.78
6	556	119.48	325.7		85.80
7	597	31.65	80.3		87.71
8	644	30.71	72.3		89.15
9	777	43.62	85.1		91.87
10	868	58.91	102.8		93.09
11	947	31.03	49.6		94.16
12	1,152	30.85	40.6		95.81
13	1,358	76.26	85.1		97.08
14	1,753	27.48	23.7		99.53
15	1,942	30.33	23.7		100.70
16	2,450	17.00	10.5		102.51
17	3,309	57.87	26.5		104.70
18	6,119	8.98	2.2		108.42
19	10,380	75.00	10.9	Upper Marker	113.00

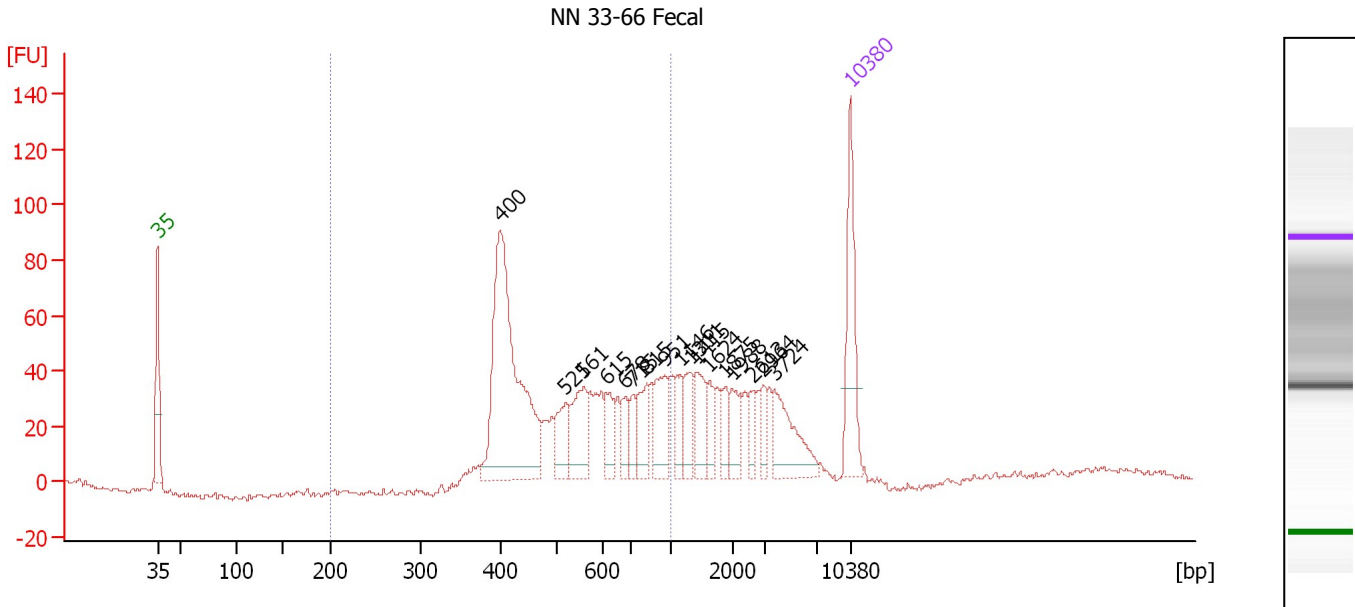
Region table for sample 6 : NN 1-32 Fecal

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	559	830.0	3,253.2	1,088.62	65	29.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : NN 33-66 Fecal

Number of peaks found: 17 Corr. Area 1: 765.8
 Noise: 1.2

Peak table for sample 7 : NN 33-66 Fecal

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	400	327.80	1,241.5		77.62
3	521	44.06	128.1		84.19
4	561	64.41	174.1		86.02
5	615	31.92	78.7		88.28
6	678	24.41	54.6		90.17
7	715	21.46	45.5		91.03
8	815	40.56	75.4		92.38
9	951	47.62	75.8		94.21
10	1,146	27.23	36.0		95.77
11	1,311	32.12	37.1		96.79
12	1,415	40.33	43.2		97.44
13	1,624	18.68	17.4		98.73
14	1,875	18.07	14.6		100.29
15	1,988	25.91	19.7		100.99
16	2,613	15.74	9.1		103.04
17	2,964	16.22	8.3		104.17
18	3,724	59.48	24.2		105.25
19	10,380	75.00	10.9	Upper Marker	113.00

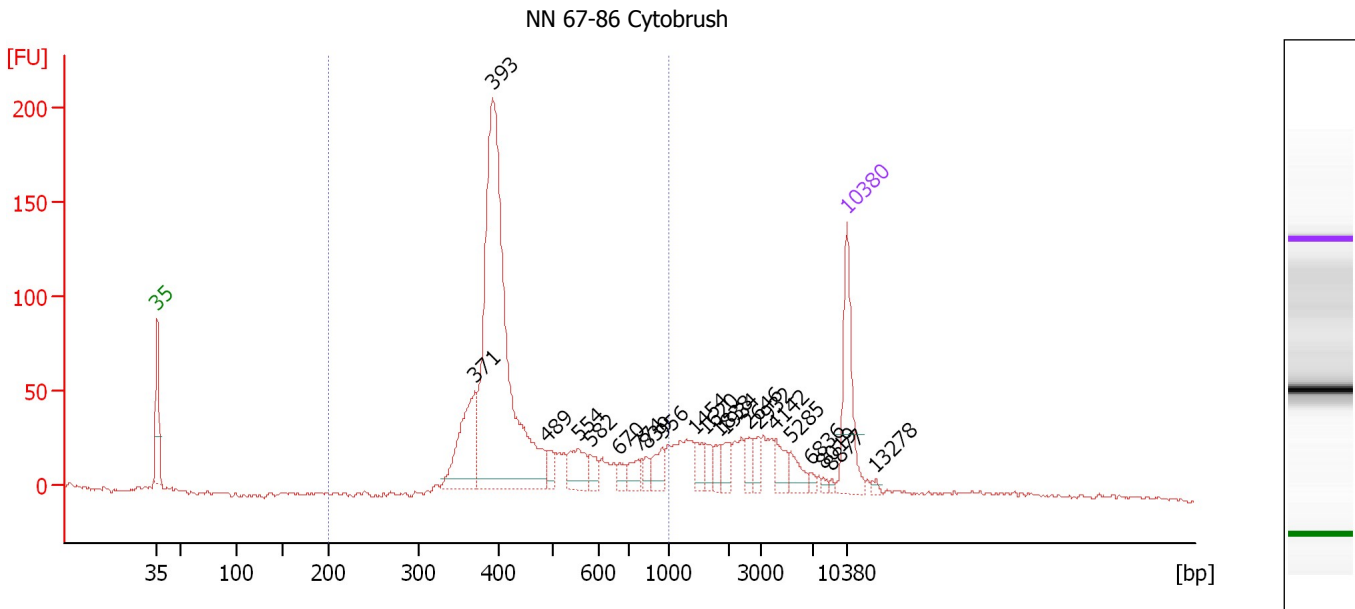
Region table for sample 7 : NN 33-66 Fecal

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	571	765.8	2,200.8	745.94	62	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : NN 67-86 Cytobrush

Number of peaks found: 21 Corr. Area 1: 1,108.0
 Noise: 1.1

Peak table for sample 8 : NN 67-86 Cytobrush

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	371	114.12	466.6		75.27
3	393	580.87	2,240.0		77.05
4	489	16.34	50.7		82.57
5	554	39.69	108.6		85.71
6	582	17.36	45.2		87.01
7	670	10.93	24.7		89.94
8	774	18.21	35.6		91.83
9	839	11.26	20.3		92.70
10	956	21.86	34.6		94.27
11	1,454	15.52	16.2		97.68
12	1,620	12.23	11.4		98.71
13	1,838	12.39	10.2		100.06
14	1,934	15.45	12.1		100.66
15	2,646	13.72	7.9		103.15
16	2,932	13.82	7.1		104.07
17	4,142	20.53	7.5		105.80
18	5,285	18.18	5.2		107.32
19	6,836	4.68	1.0		109.37
20	8,019	2.97	0.6		110.62
21	8,877	2.78	0.5		111.48
22	10,380	75.00	10.9	Upper Marker	113.00
23	13,278	0.00	0.0		115.92

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...

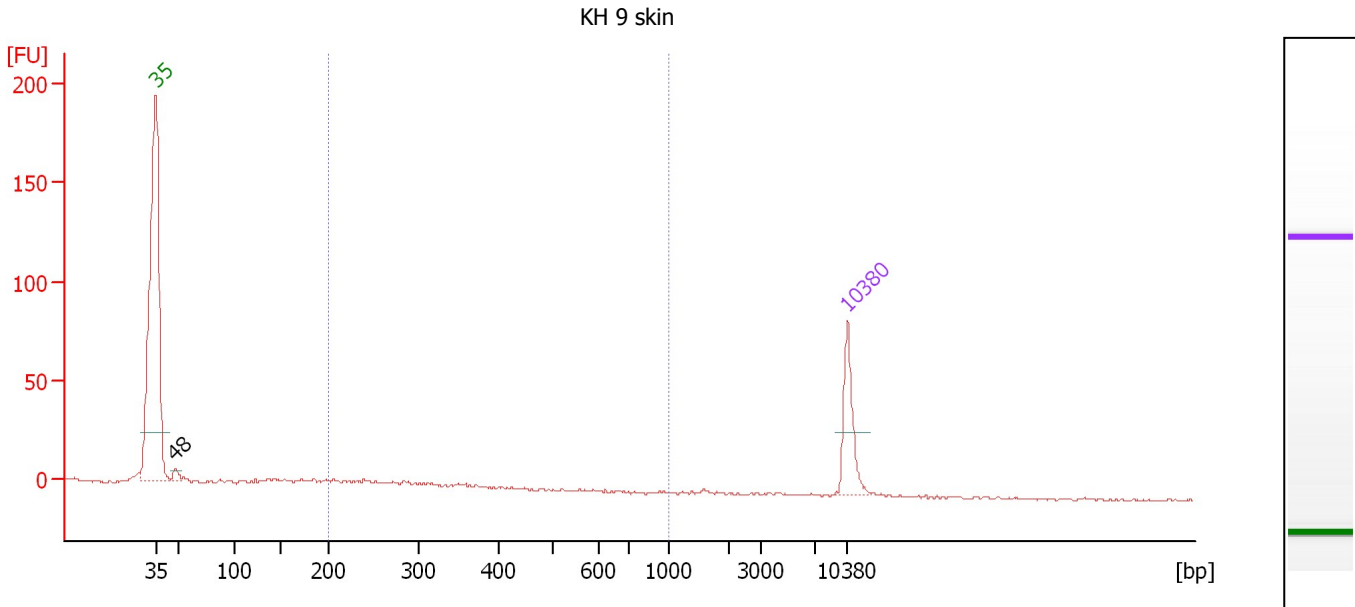
... Region table for sample 8 : NN 67-86 Cytobrush

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	470	1,108.0	3,230.1	■ 922.88	71	30.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
 Modified: 6/20/2017 4:38:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : KH 9 skin

Number of peaks found: 1 Corr. Area 1: 14.4
 Noise: 0.7

Peak table for sample 9 : KH 9 skin

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	48	17.34	551.6		45.00
3	10,380	75.00	10.9	Upper Marker	113.00

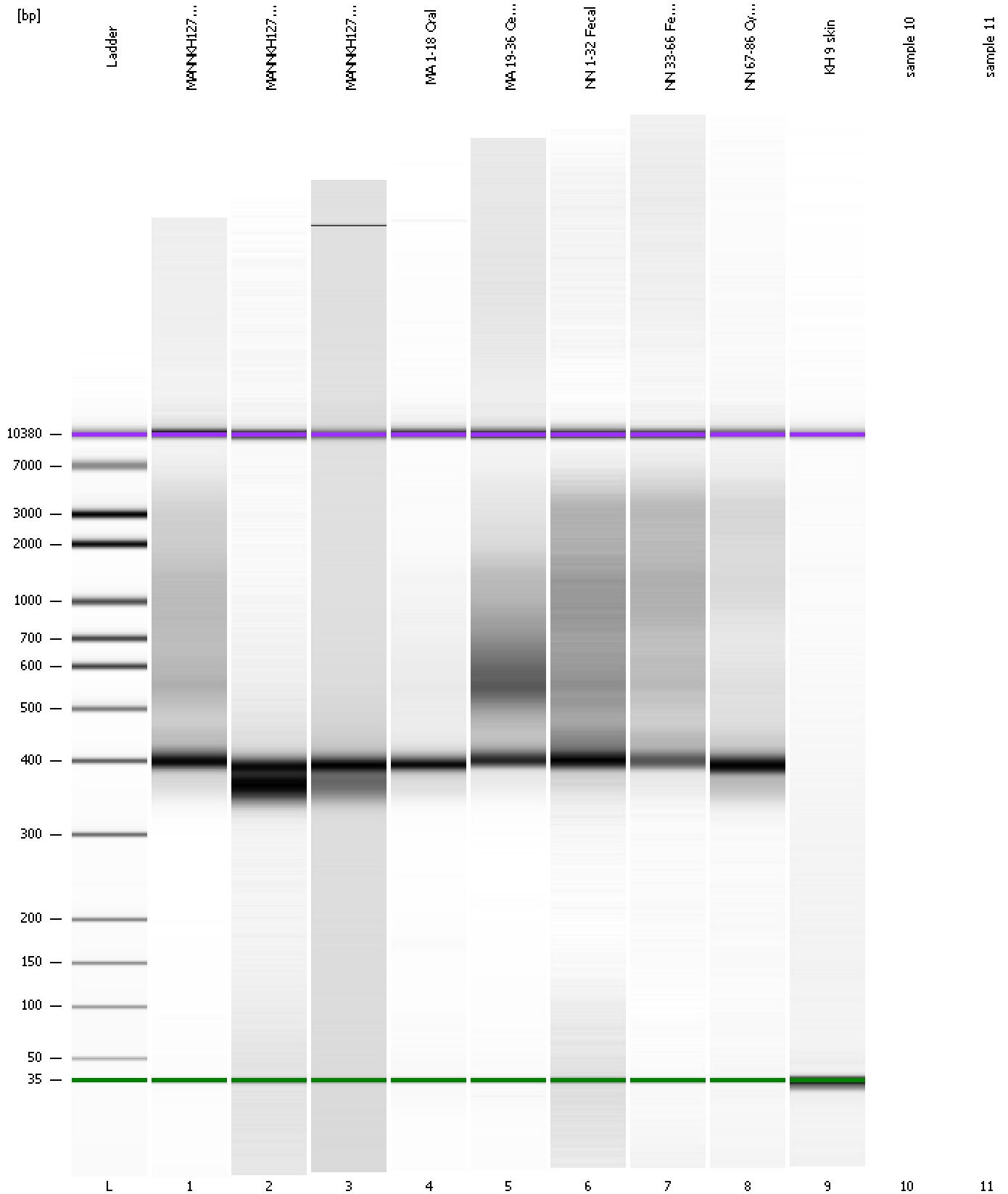
Region table for sample 9 : KH 9 skin

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	260	14.4	134.4	22.60	38	16.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
Modified: 6/20/2017 4:38:42 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-20\2017-06-20_005.xad

Created: 6/20/2017 4:03:01 PM
Modified: 6/20/2017 4:38:42 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.