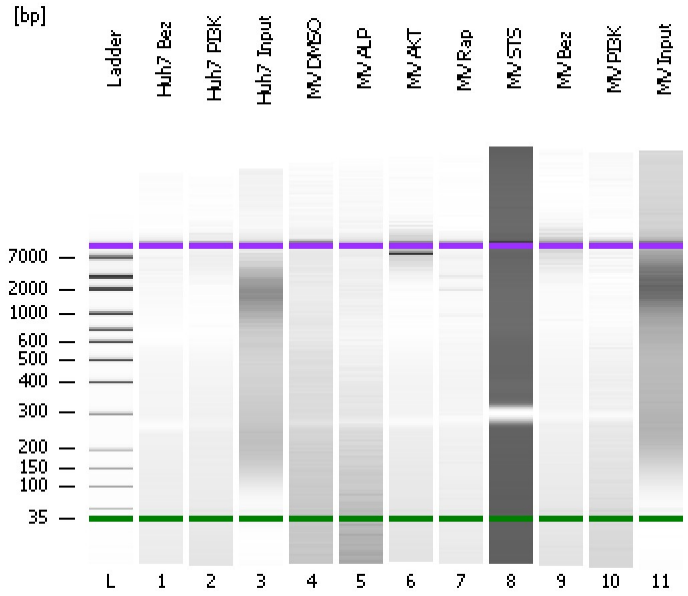
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electrophoresis File Run Summary



Instrument Information:

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

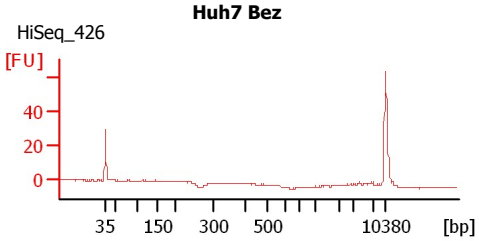
Assay Information:

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

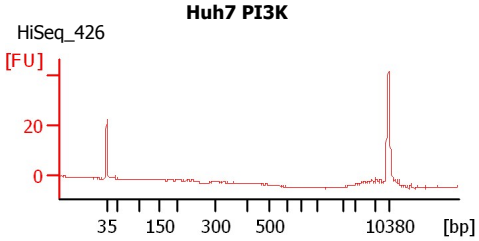
Chip Information:

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

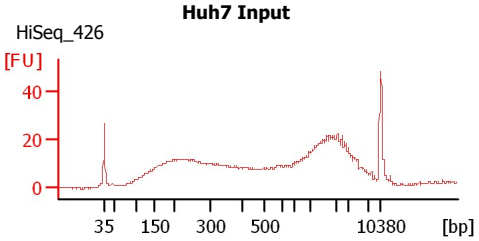
Huh7 Bez



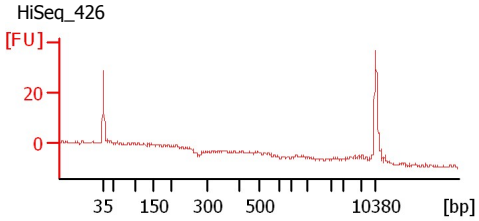
Huh7 PI3K



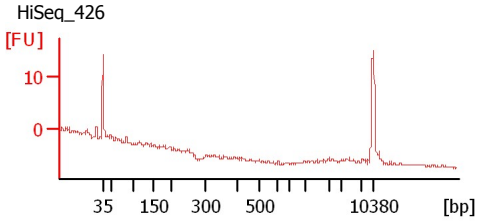
Huh7 Input



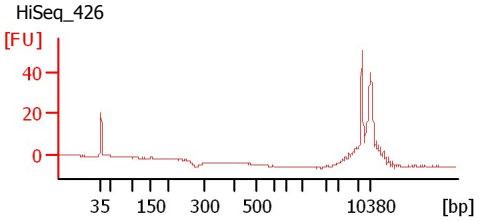
MV DMSO



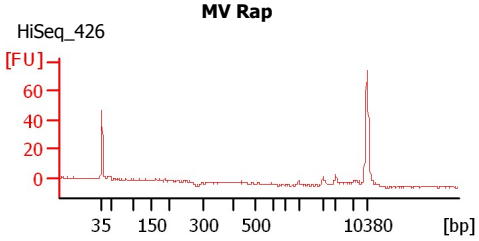
MV ALP



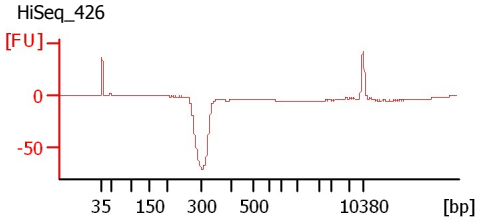
MV AKT



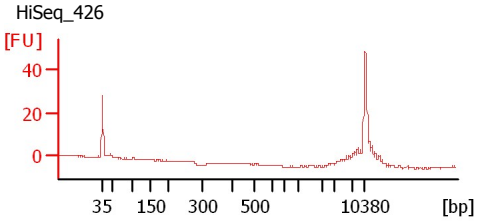
MV Rap



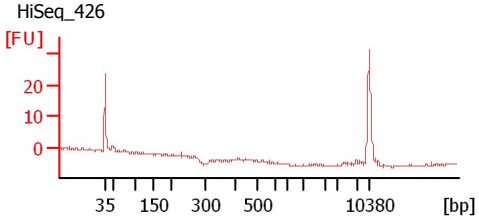
MV STS



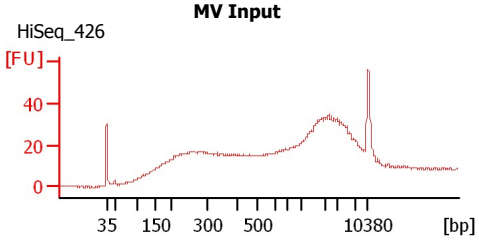
MV Bez



MV PI3K



MV Input



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Huh7 Bez	HiSeq_426	☐	✔			
Huh7 PI3K	HiSeq_426	☐	✔			
Huh7 Input	HiSeq_426	☐	✔			
MV DMSO	HiSeq_426	☐	✔			
MV ALP	HiSeq_426	☐	✔			
MV AKT	HiSeq_426	☐	✔			
MV Rap	HiSeq_426	☐	✔			
MV STS	HiSeq_426	☐	✔			
MV Bez	HiSeq_426	☐	✔			
MV PI3K	HiSeq_426	☐	✔			
MV Input	HiSeq_426	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 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\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
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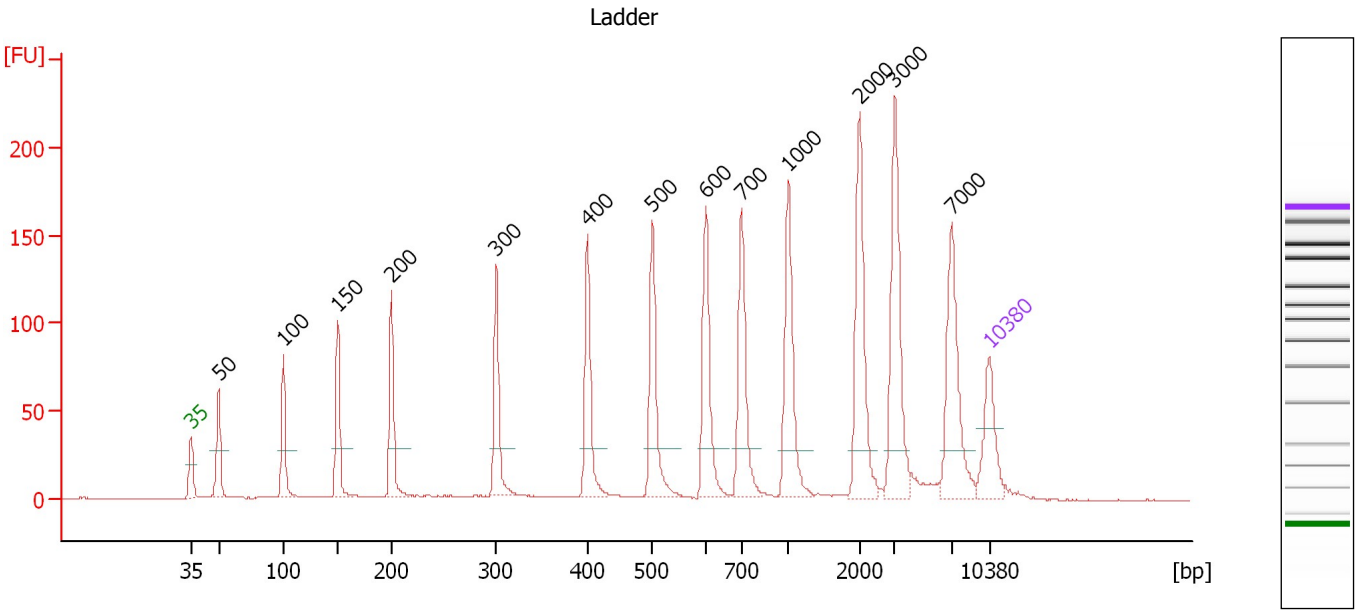
Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

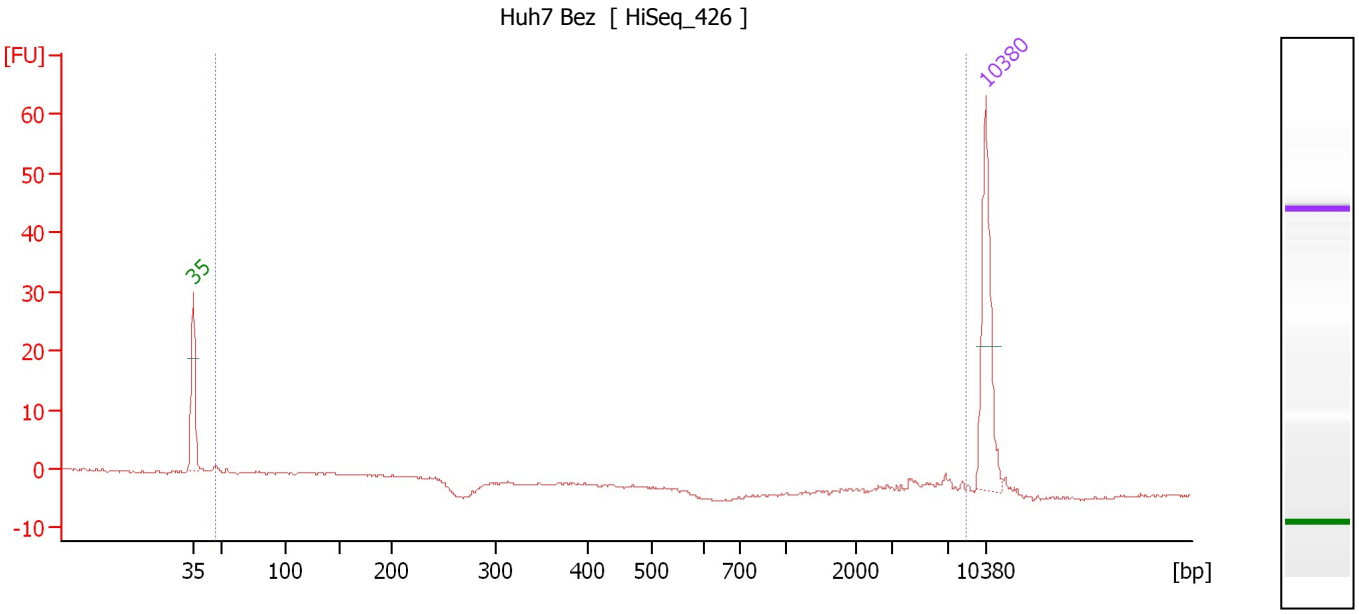
Peak table for Ladder

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	45.43
3		100	150.00	2,272.7	Ladder Peak	51.08
4		150	150.00	1,515.2	Ladder Peak	55.85
5		200	150.00	1,136.4	Ladder Peak	60.57
6		300	150.00	757.6	Ladder Peak	69.78
7		400	150.00	568.2	Ladder Peak	77.77
8		500	150.00	454.5	Ladder Peak	83.42
9		600	150.00	378.8	Ladder Peak	88.14
10		700	150.00	324.7	Ladder Peak	91.27
11		1,000	150.00	227.3	Ladder Peak	95.34
12		2,000	150.00	113.6	Ladder Peak	101.60
13		3,000	150.00	75.8	Ladder Peak	104.68
14		7,000	150.00	32.5	Ladder Peak	109.68
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Huh7 Bez

Number of peaks found:	0	Corr. Area 1:	11.6
Noise:	0.2		

Peak table for sample 1 : Huh7 Bez

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	10,380	75.00	10.9	Upper Marker	113.00

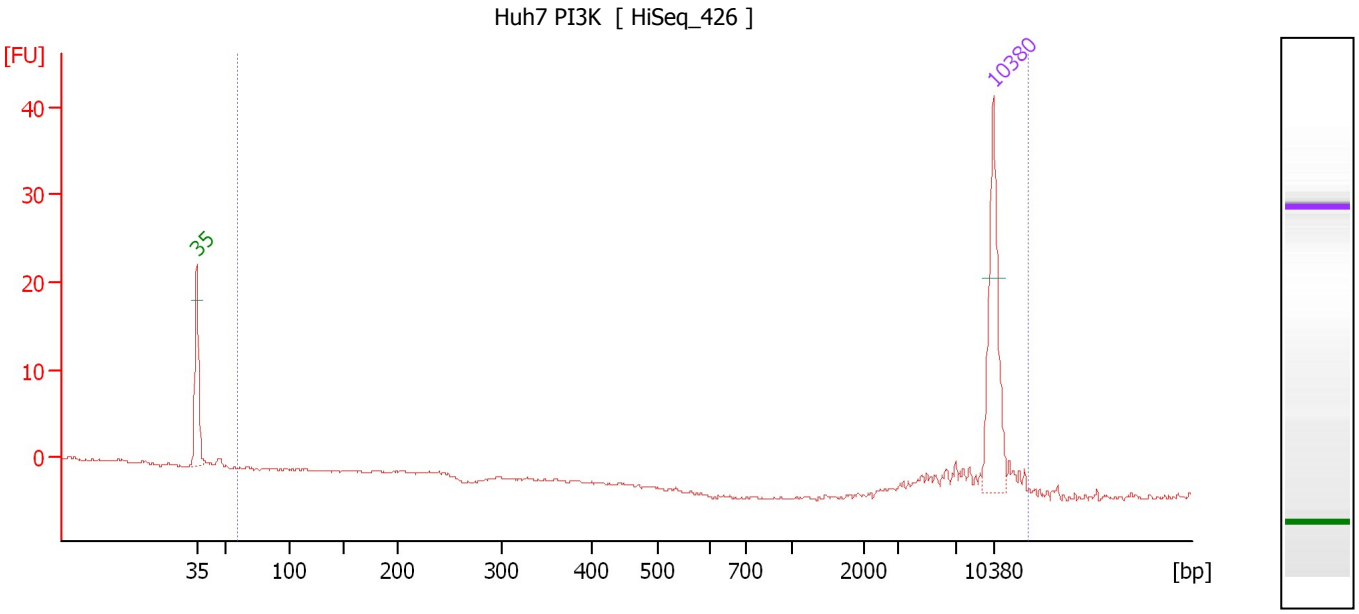
Region table for sample 1 : Huh7 Bez

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
48	8,654	3,852	11.6	254.6	25.36	76	76.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Huh7 PI3K

Number of peaks found:	0	Corr. Area 1:	10.8
Noise:	0.1		

Peak table for sample 2 : Huh7 PI3K

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	10,380	75.00	10.9	Upper Marker	113.00

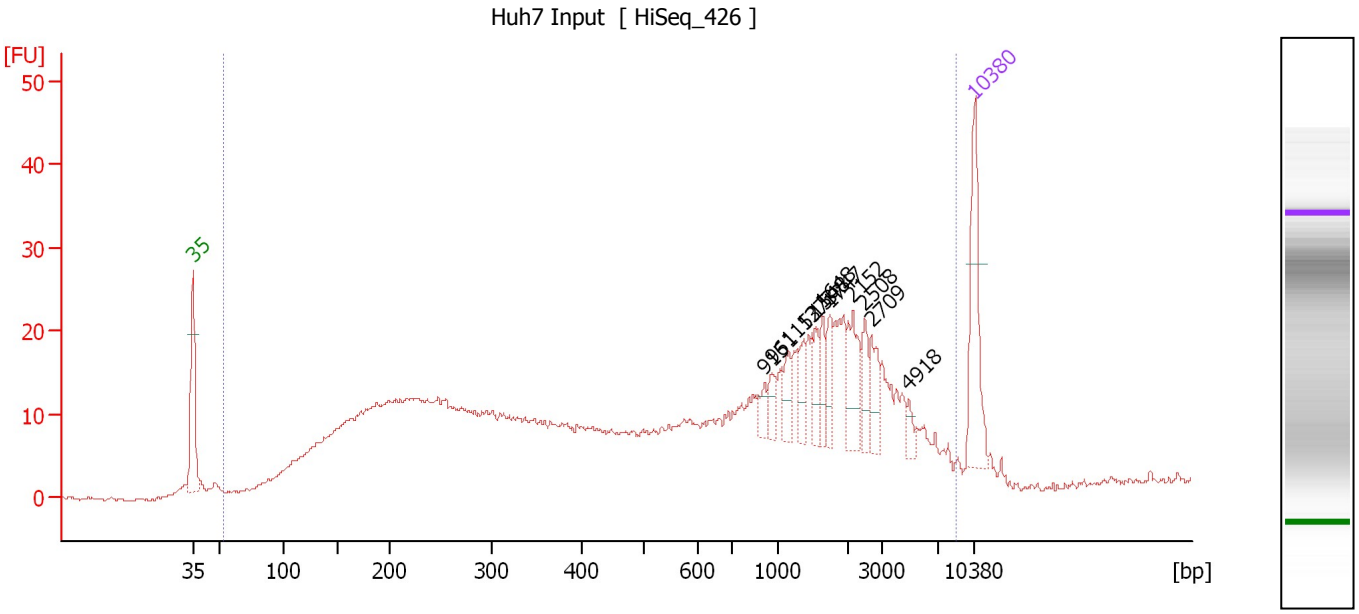
Region table for sample 2 : Huh7 PI3K

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
60	13,544	9,906	10.8	4.6	22.57	89	17.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Huh7 Input

Number of peaks found:	11	Corr. Area 1:	767.1
Noise:	0.2		

Peak table for sample 3 : Huh7 Input

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	915	12.55	20.8		94.19
3	961	16.90	26.6		94.81
4	1,152	20.13	26.5		96.29
5	1,373	21.40	23.6		97.67
6	1,548	23.91	23.4		98.77
7	1,648	21.40	19.7		99.39
8	1,747	22.20	19.3		100.01
9	2,152	40.90	28.8		102.07
10	2,508	22.45	13.6		103.16
11	2,709	26.72	14.9		103.78
12	4,918	9.13	2.8		107.08
13	10,380	75.00	10.9	Upper Marker	113.00

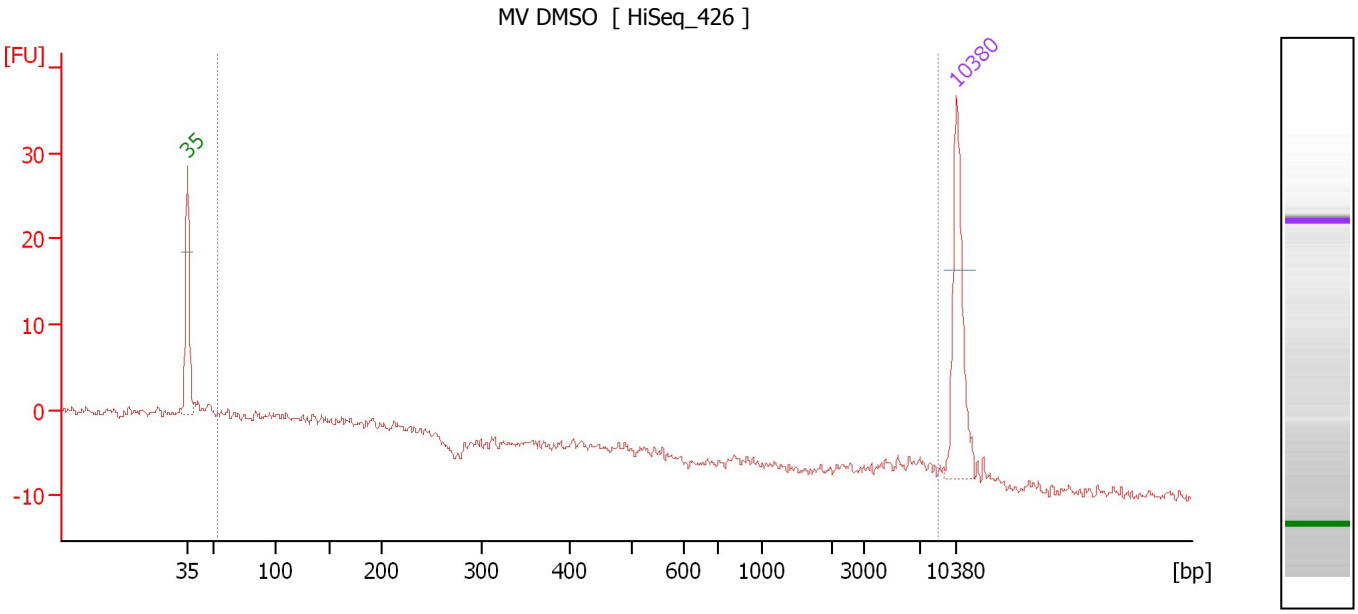
Region table for sample 3 : Huh7 Input

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
52	8,676	1,177	767.1	12,759.6	2,465.51	98	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MV DMSO

Number of peaks found:	0	Corr. Area 1:	52.7
Noise:	0.5		

Peak table for sample 4 : MV DMSO

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : MV DMSO

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
53	8,612	1,692	52.7	1,599.9	164.80	76	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

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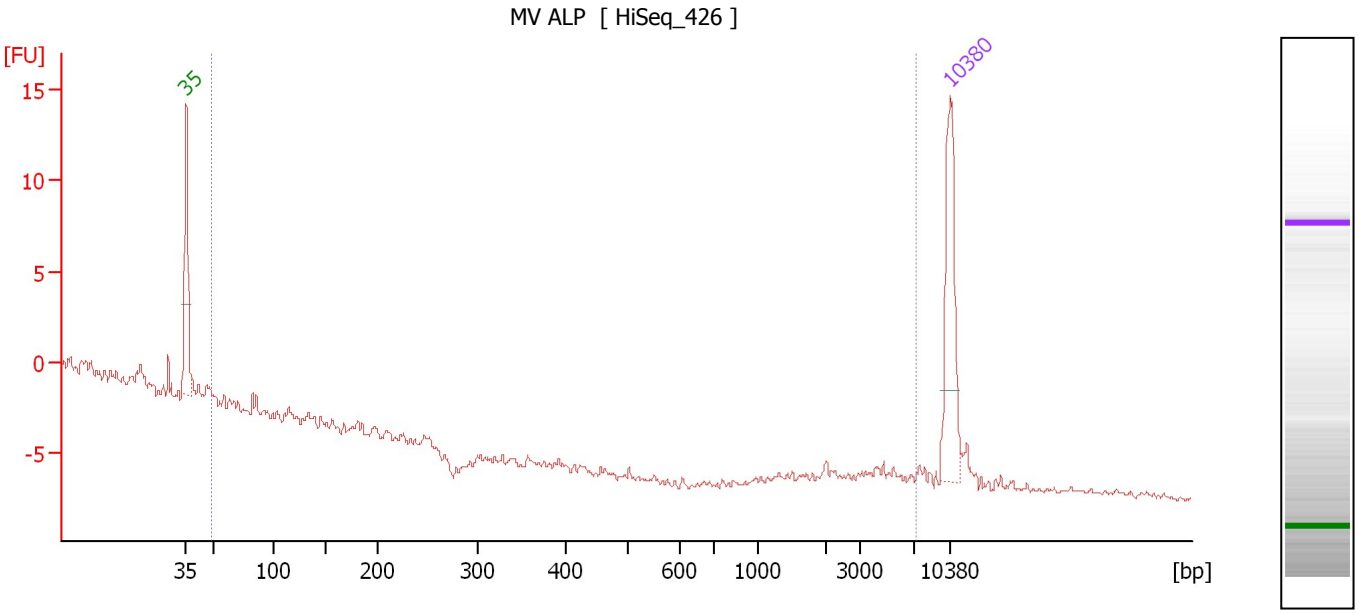
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MV ALP

Number of peaks found:	0	Corr. Area 1:	0.0
Noise:	0.2		

Peak table for sample 5 : MV ALP

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : MV ALP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
49	7,092	4,734	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

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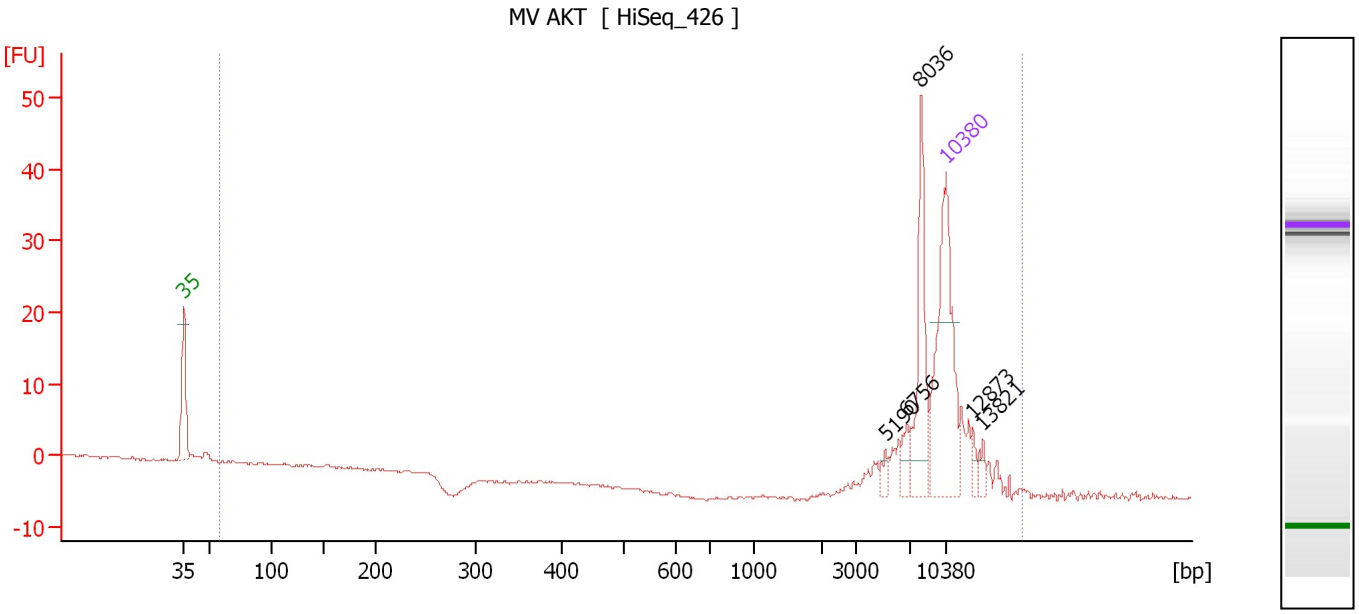

Overall Results for sample 6 : MV AKT

Number of peaks found:	5	Corr. Area 1:	74.9
Noise:	0.2		

Peak table for sample 6 : MV AKT

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	5,190	4.57	1.3		107.42
3	6,756	7.89	1.8		109.38
4	8,036	47.79	9.0		110.70
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,873	0.00	0.0		115.45
7	13,821	0.00	0.0		116.38

Region table for sample 6 : MV AKT

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
57	17,524	9,496	74.9	18.8	89.76	94	24.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

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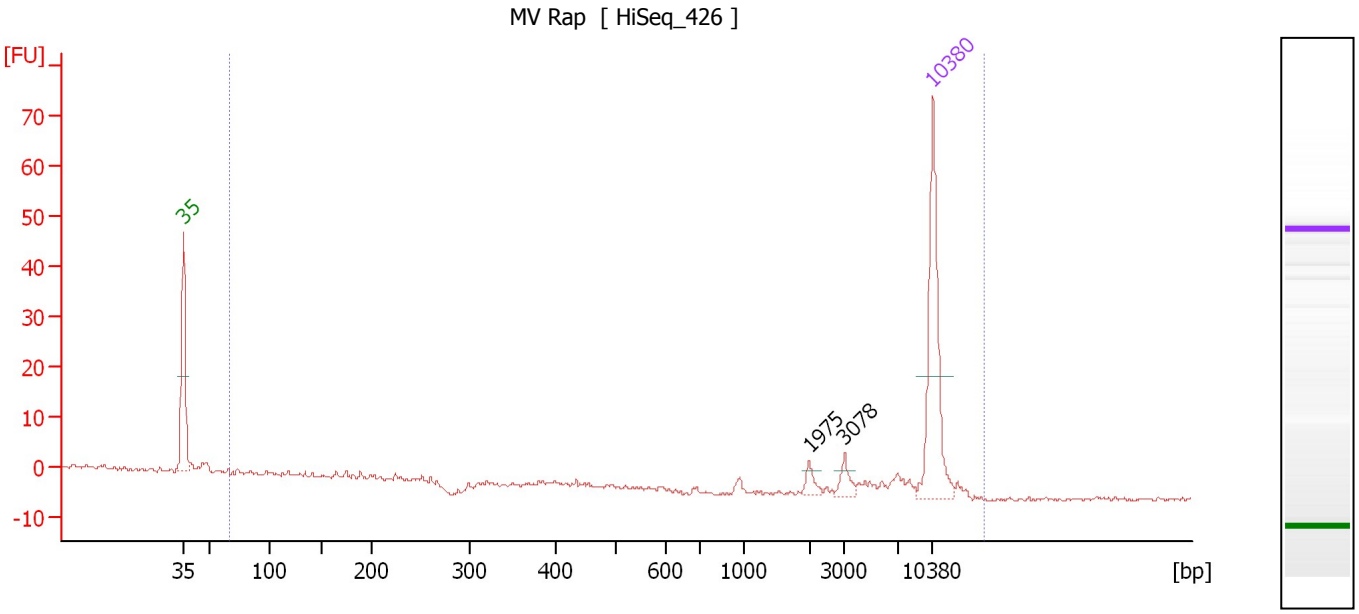
Electropherogram Summary Continued ...



Overall Results for sample 7 : MV Rap

Number of peaks found:	2	Corr. Area 1:	19.8
Noise:	0.4		

Peak table for sample 7 : MV Rap

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	1,975	6.62	5.1		101.44
3	3,078	8.19	4.0		104.78
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : MV Rap

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color Conc. [pg/µl]	% of Total	Size distribution in CV [%]
66	15,257	9,275	19.8	36.3	23.44	79	29.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

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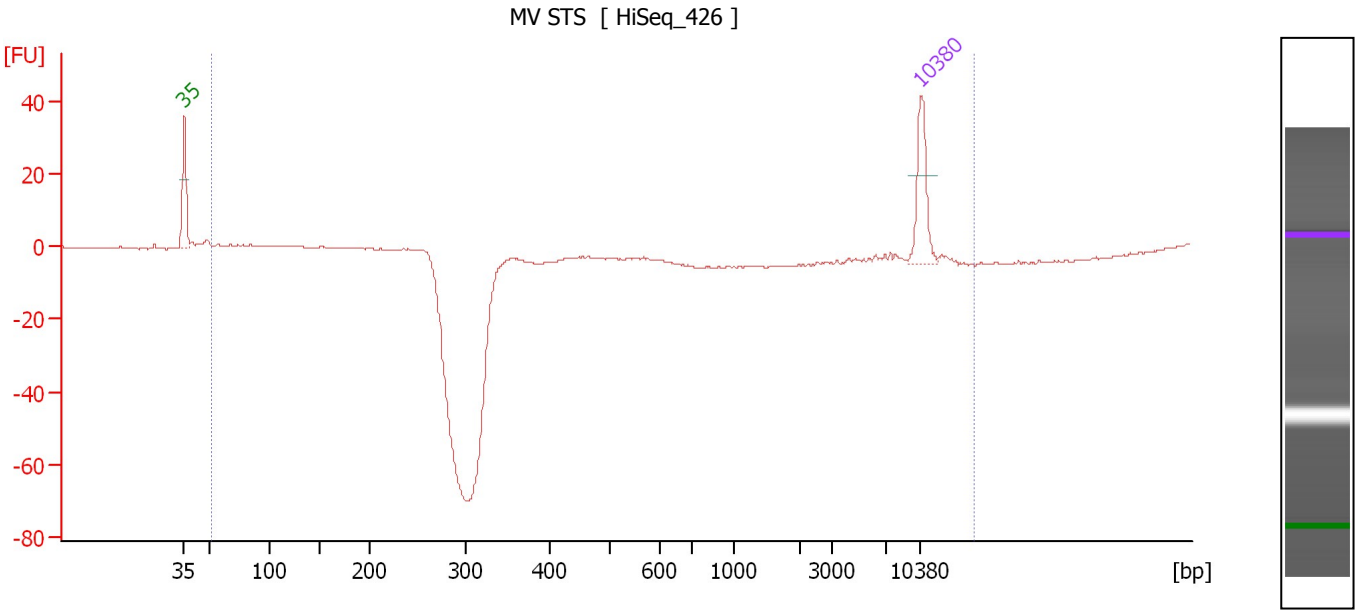
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MV STS

Number of peaks found:	0	Corr. Area 1:	7.5
Noise:	0.2		

Peak table for sample 8 : MV STS

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : MV STS

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
52	15,494	9,519	7.5	514.8	27.56	54	32.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

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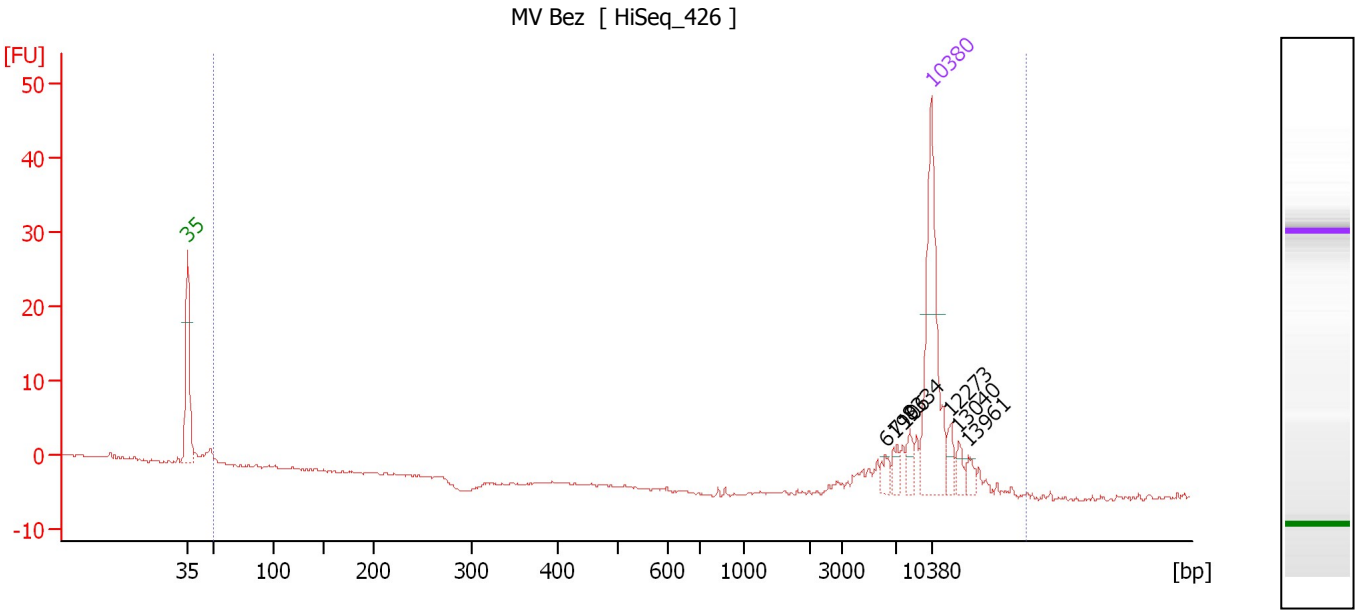
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MV Bez

Number of peaks found:	6	Corr. Area 1:	29.5
Noise:	0.1		

Peak table for sample 9 : MV Bez

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		6,199	5.59	1.4		108.68
3		7,106	6.34	1.4		109.79
4		8,334	6.89	1.3		110.99
5	▶	10,380	75.00	10.9	Upper Marker	113.00
6		12,273	0.00	0.0		114.86
7		13,040	0.00	0.0		115.61
8		13,961	0.00	0.0		116.52

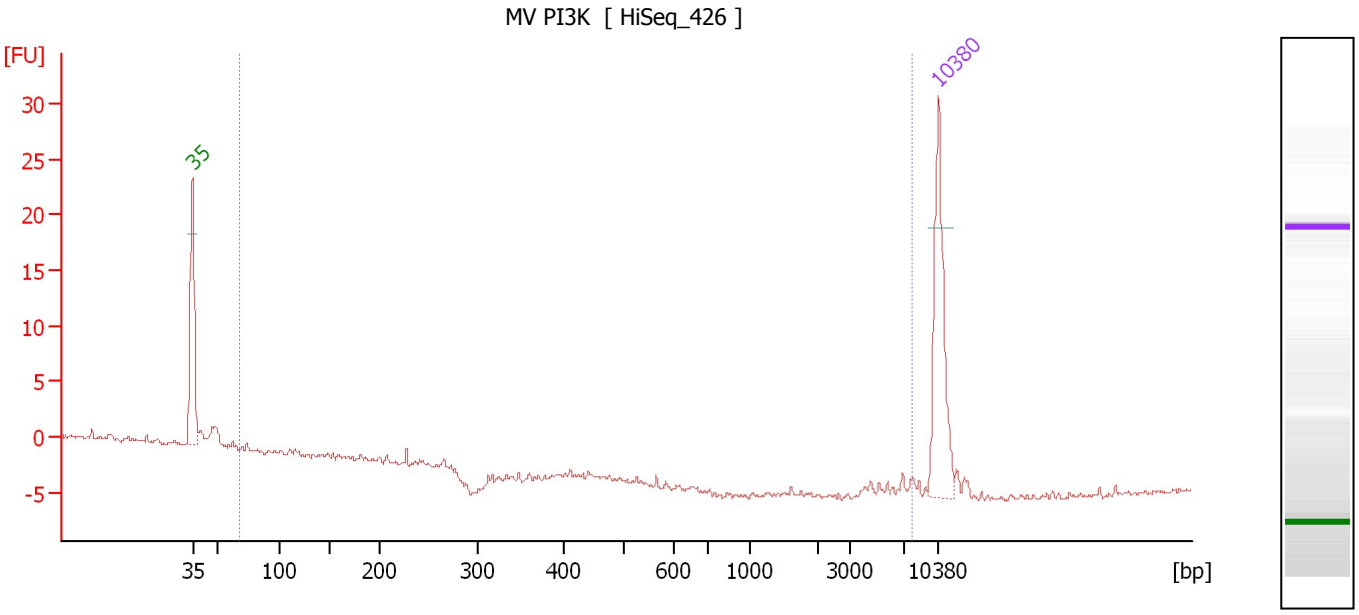
Region table for sample 9 : MV Bez

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
51	19,551	10,144	29.5	16.1	42.08	89	20.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MV PI3K

Number of peaks found:	0	Corr. Area 1:	0.1
Noise:	0.3		

Peak table for sample 10 : MV PI3K

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	10,380	75.00	10.9	Upper Marker	113.00

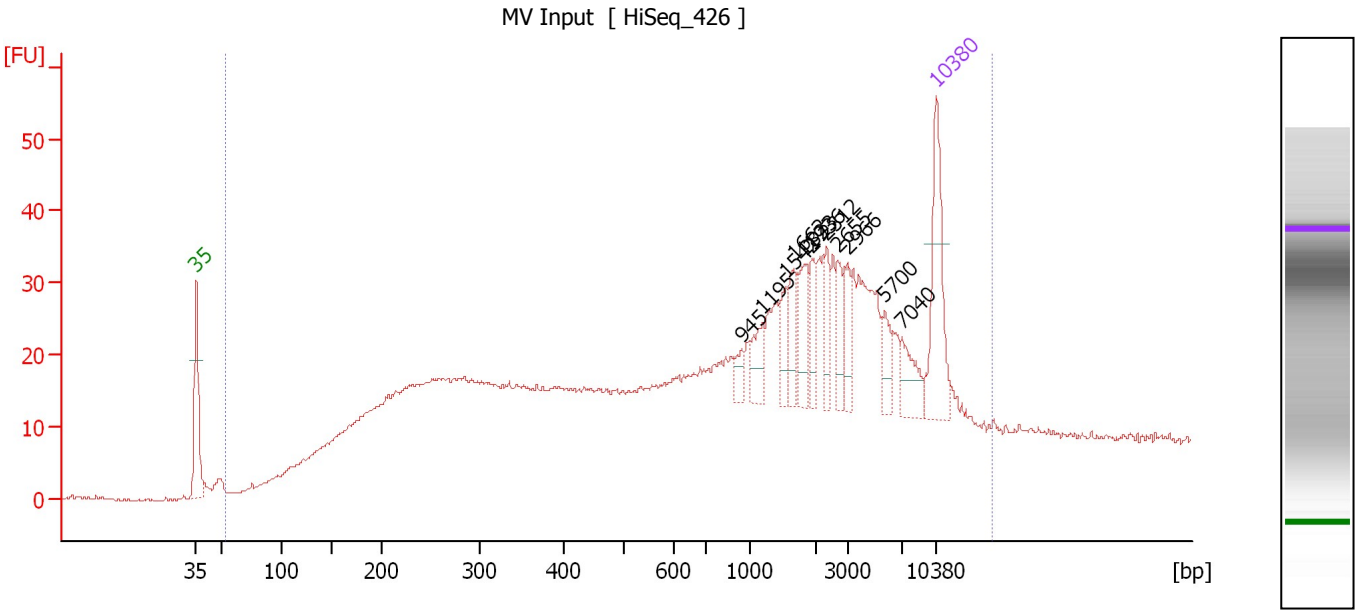
Region table for sample 10 : MV PI3K

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
67	7,770	3,159	0.1	2.7	0.34	2	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MV Input

Number of peaks found:	11	Corr. Area 1:	1,010.9
Noise:	0.2		

Peak table for sample 11 : MV Input

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	945	11.25	18.0		94.59
3	1,195	25.32	32.1		96.56
4	1,542	21.56	21.2		98.73
5	1,662	22.88	20.9		99.48
6	1,823	32.16	26.7		100.49
7	1,936	24.22	19.0		101.20
8	2,312	23.13	15.2		102.56
9	2,655	21.66	12.4		103.62
10	2,966	22.74	11.6		104.58
11	5,700	22.12	5.9		108.06
12	7,040	29.04	6.2		109.72
13	10,380	75.00	10.9	Upper Marker	113.00

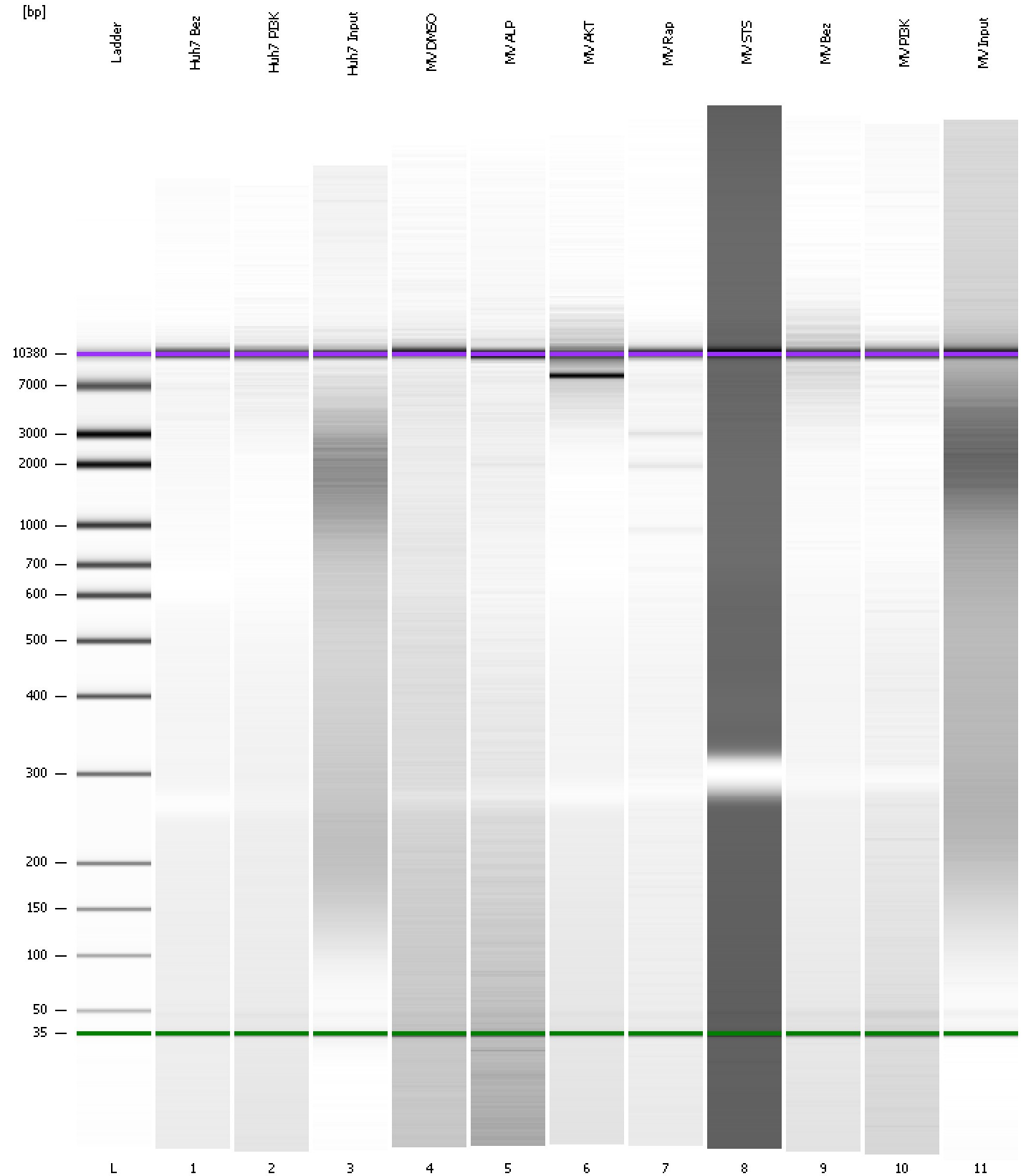
Region table for sample 11 : MV Input

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
54	15,843	2,456	1,010.9	9,380.1	2,304.43	98	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad

Created: 3/8/2016 3:42:22 PM
Modified: 3/8/2016 4:25:03 PM

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		3/8/2016 4:23:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-08\2016-03-08_003.xad)		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/8/2016 3:42:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1