

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/7/2017 5:52:05 PM

Electrophoresis File Run Summary

Instrument Information:

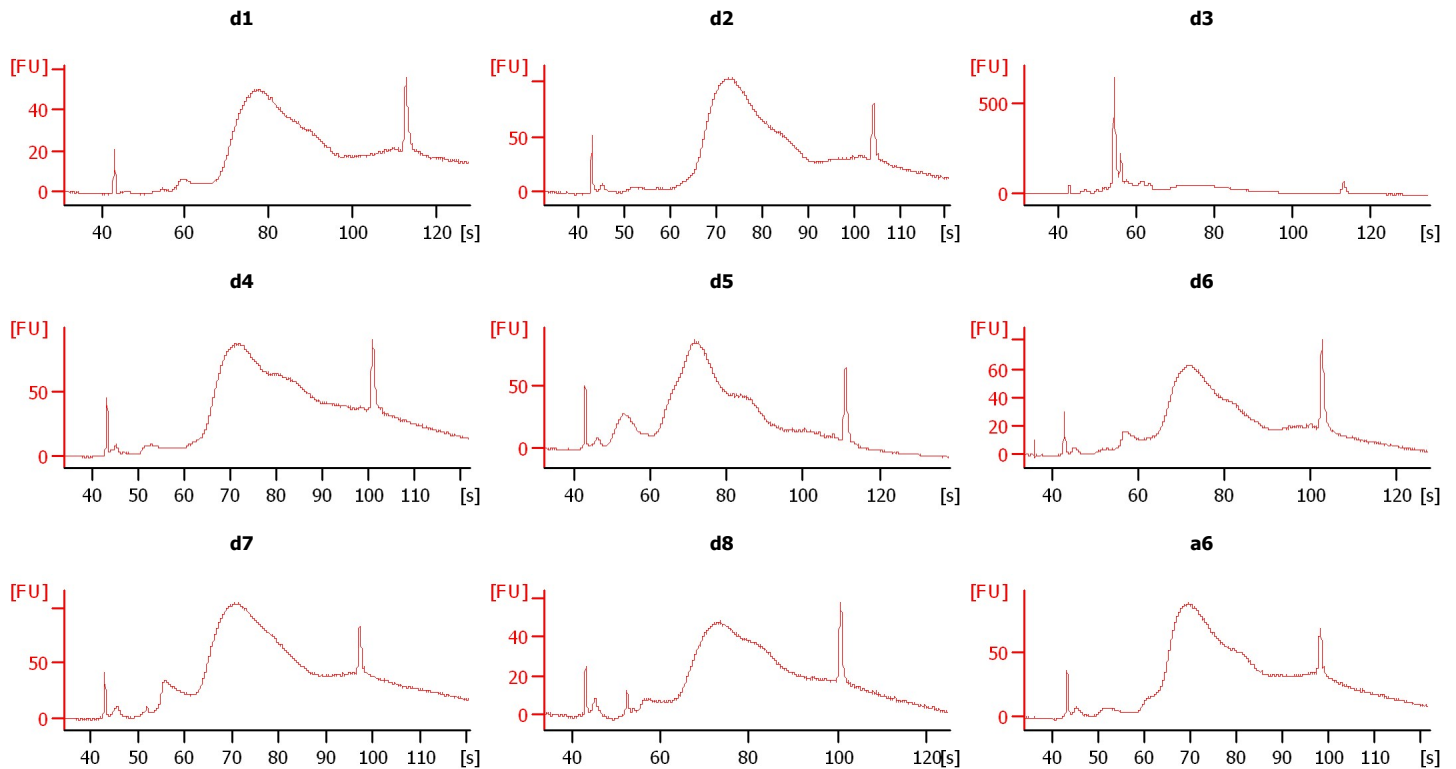
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
d1		<input type="checkbox"/>	✓			
d2		<input type="checkbox"/>	✓			
d3		<input type="checkbox"/>	✓			
d4		<input type="checkbox"/>	✓			
d5		<input type="checkbox"/>	✓			
d6		<input type="checkbox"/>	✓			
d7		<input type="checkbox"/>	✓			
d8		<input type="checkbox"/>	✓			
a6		<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
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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

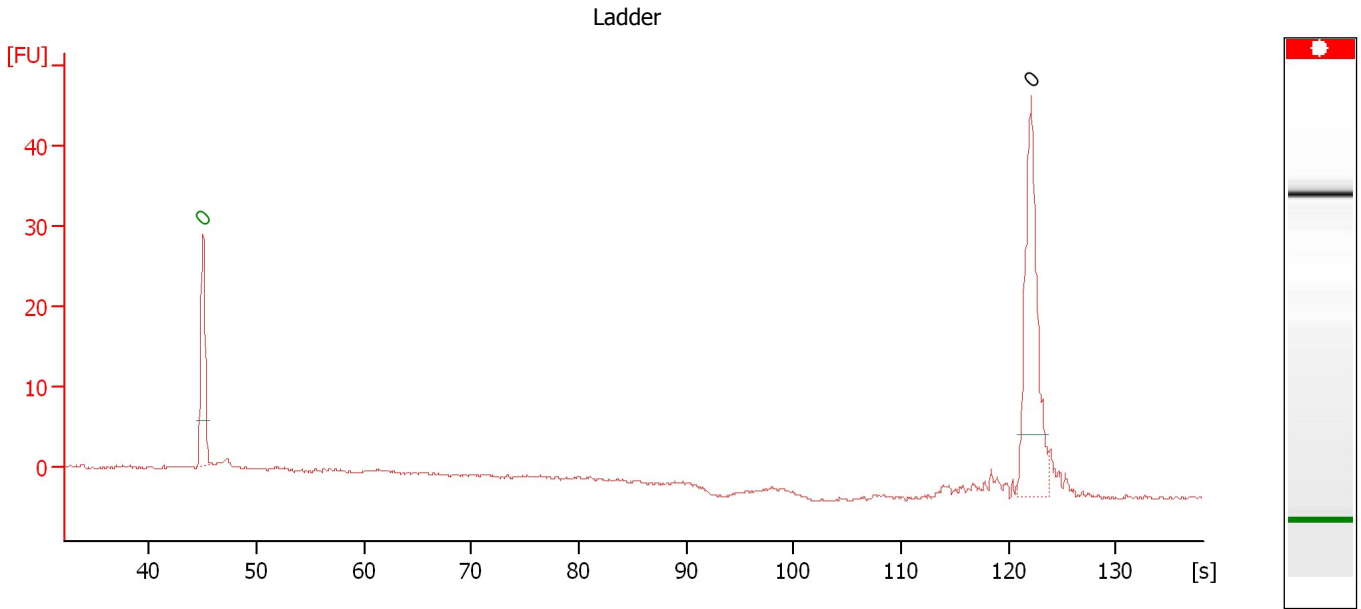
Ladder

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: 0.2

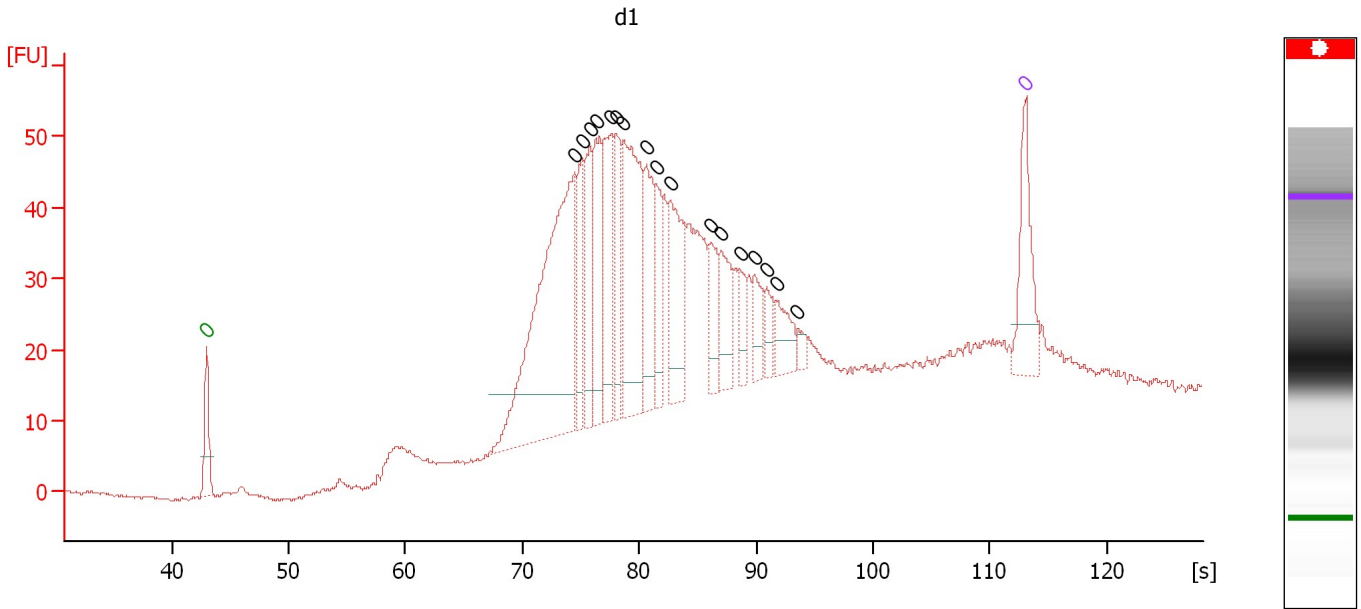
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	45.00
2	0	0.00	0.0	Ladder Peak	122.10

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Electropherogram Summary Continued ...



Overall Results for sample 1 : d1

Number of peaks found: 17 Noise: 0.2

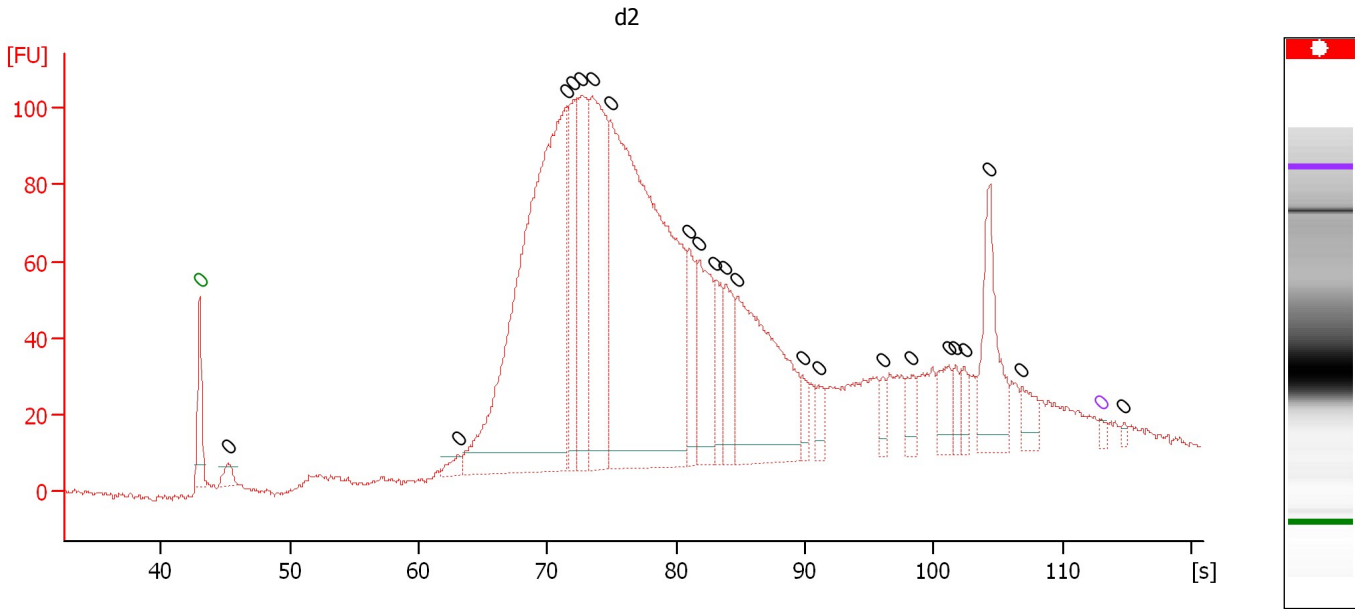
Peak table for sample 1 : d1

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		74.51
3	0	0.00	0.0		75.11
4	0	0.00	0.0		75.80
5	0	0.00	0.0		76.30
6	0	0.00	0.0		77.63
7	0	0.00	0.0		78.00
8	0	0.00	0.0		78.60
9	0	0.00	0.0		80.62
10	0	0.00	0.0		81.44
11	0	0.00	0.0		82.64
12	0	0.00	0.0		86.13
13	0	0.00	0.0		87.00
14	0	0.00	0.0		88.61
15	0	0.00	0.0		89.90
16	0	0.00	0.0		90.91
17	0	0.00	0.0		91.73
18	0	0.00	0.0		93.57
19	0	0.00	0.0	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 2 : d2

Number of peaks found: 22 Noise: 0.7

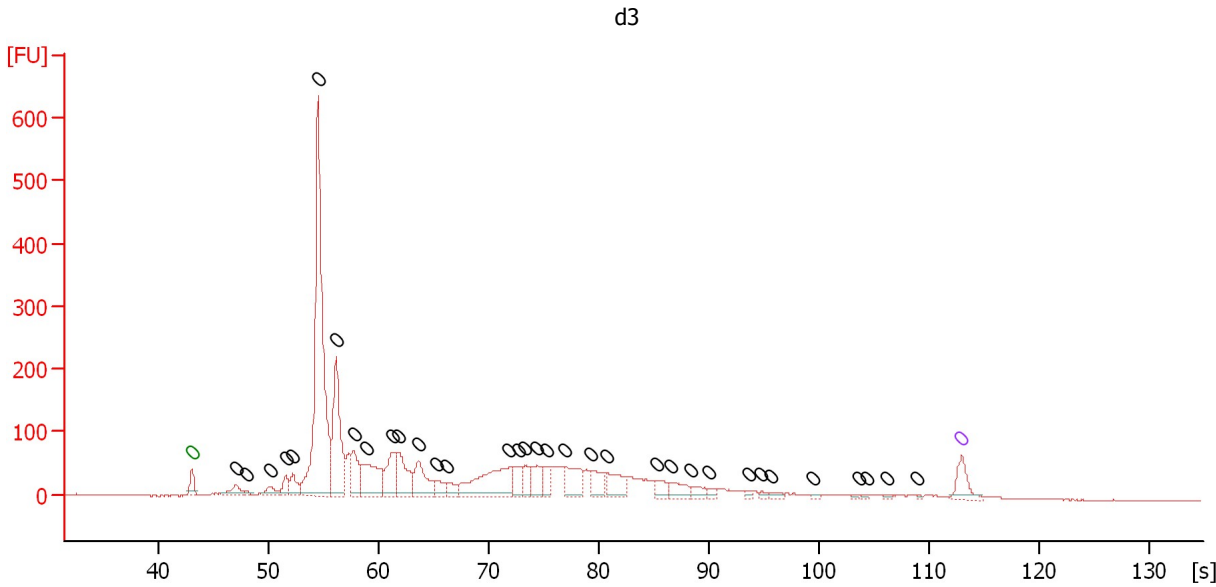
Peak table for sample 2 : d2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.21
3	0	0.00	0.0		63.11
4	0	0.00	0.0		71.53
5	0	0.00	0.0		72.03
6	0	0.00	0.0		72.58
7	0	0.00	0.0		73.54
8	0	0.00	0.0		74.91
9	0	0.00	0.0		81.05
10	0	0.00	0.0		81.84
11	0	0.00	0.0		83.09
12	0	0.00	0.0		83.84
13	0	0.00	0.0		84.80
14	0	0.00	0.0		89.81
15	0	0.00	0.0		91.06
16	0	0.00	0.0		96.06
17	0	0.00	0.0		98.32
18	0	0.00	0.0		101.19
19	0	0.00	0.0		101.74
20	0	0.00	0.0		102.40
21	0	0.00	0.0		104.36
22	0	0.00	0.0		106.87
23	0	0.00	0.0	Upper Marker	113.00
24	0	0.00	0.0		114.79

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Electropherogram Summary Continued ...



Overall Results for sample 3 : d3

Number of peaks found: 34 Noise: 0.6

Peak table for sample 3 : d3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		47.01
3	0	0.00	0.0		47.93
4	0	0.00	0.0		50.03
5	0	0.00	0.0		51.50
6	0	0.00	0.0		52.13
7	0	0.00	0.0		54.48
8	0	0.00	0.0		56.09
9	0	0.00	0.0		57.70
10	0	0.00	0.0		58.83
11	0	0.00	0.0		61.27
12	0	0.00	0.0		61.71
13	0	0.00	0.0		63.61
14	0	0.00	0.0		65.27
15	0	0.00	0.0		66.20
16	0	0.00	0.0		71.87
17	0	0.00	0.0		72.75
18	0	0.00	0.0		73.29
19	0	0.00	0.0		74.41
20	0	0.00	0.0		75.19
21	0	0.00	0.0		76.95
22	0	0.00	0.0		79.29
23	0	0.00	0.0		80.76
24	0	0.00	0.0		85.30
25	0	0.00	0.0		86.52
26	0	0.00	0.0		88.43
27	0	0.00	0.0		89.94

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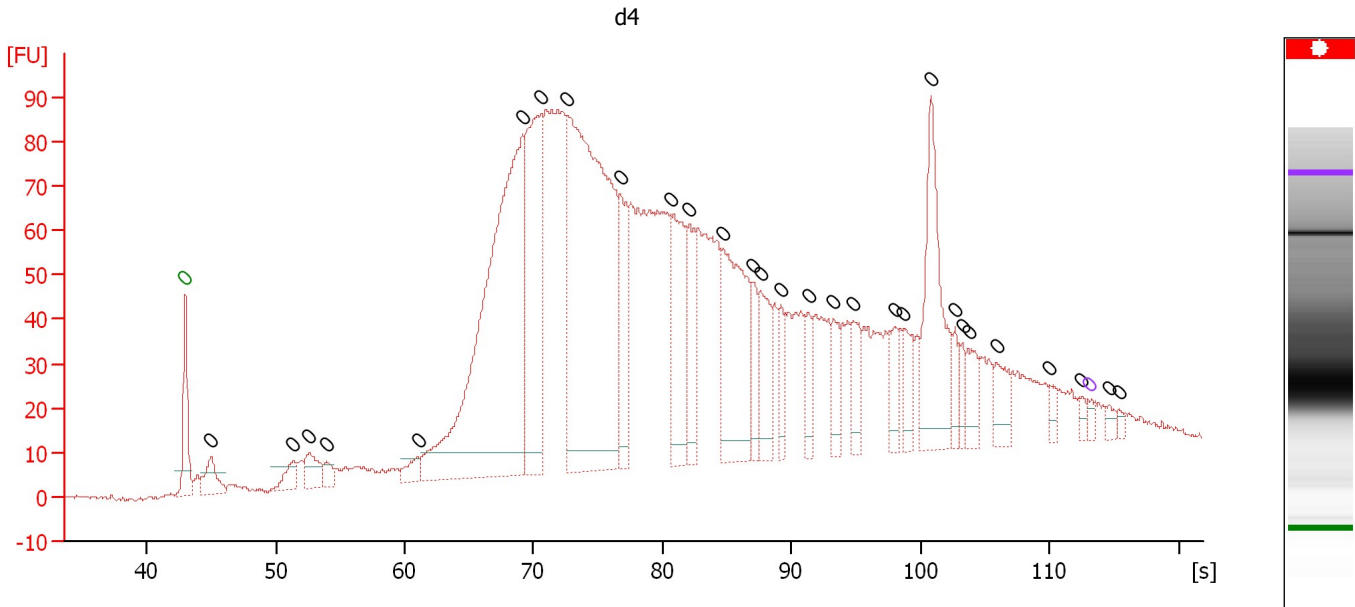
Electropherogram Summary Continued ...**... Peak table for sample 3 : d3**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		93.56
29	0	0.00	0.0		94.78
30	0	0.00	0.0		95.66
31	0	0.00	0.0		99.52
32	0	0.00	0.0		103.57
33	0	0.00	0.0		104.30
34	0	0.00	0.0		106.16
35	0	0.00	0.0		108.99
36	0	0.00	0.0	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 4 : d4

Number of peaks found: 29 Noise: 0.4

Peak table for sample 4 : d4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.00
3	0	0.00	0.0		51.37
4	0	0.00	0.0		52.61
5	0	0.00	0.0		53.95
6	0	0.00	0.0		61.02
7	0	0.00	0.0		69.18
8	0	0.00	0.0		70.55
9	0	0.00	0.0		72.59
10	0	0.00	0.0		76.71
11	0	0.00	0.0		80.71
12	0	0.00	0.0		82.04
13	0	0.00	0.0		84.62
14	0	0.00	0.0		86.99
15	0	0.00	0.0		87.57
16	0	0.00	0.0		89.15
17	0	0.00	0.0		91.32
18	0	0.00	0.0		93.23
19	0	0.00	0.0		94.81
20	0	0.00	0.0		97.93
21	0	0.00	0.0		98.64
22	0	0.00	0.0		100.81
23	0	0.00	0.0		102.64
24	0	0.00	0.0		103.22
25	0	0.00	0.0		103.68
26	0	0.00	0.0		105.88
27	0	0.00	0.0		110.00

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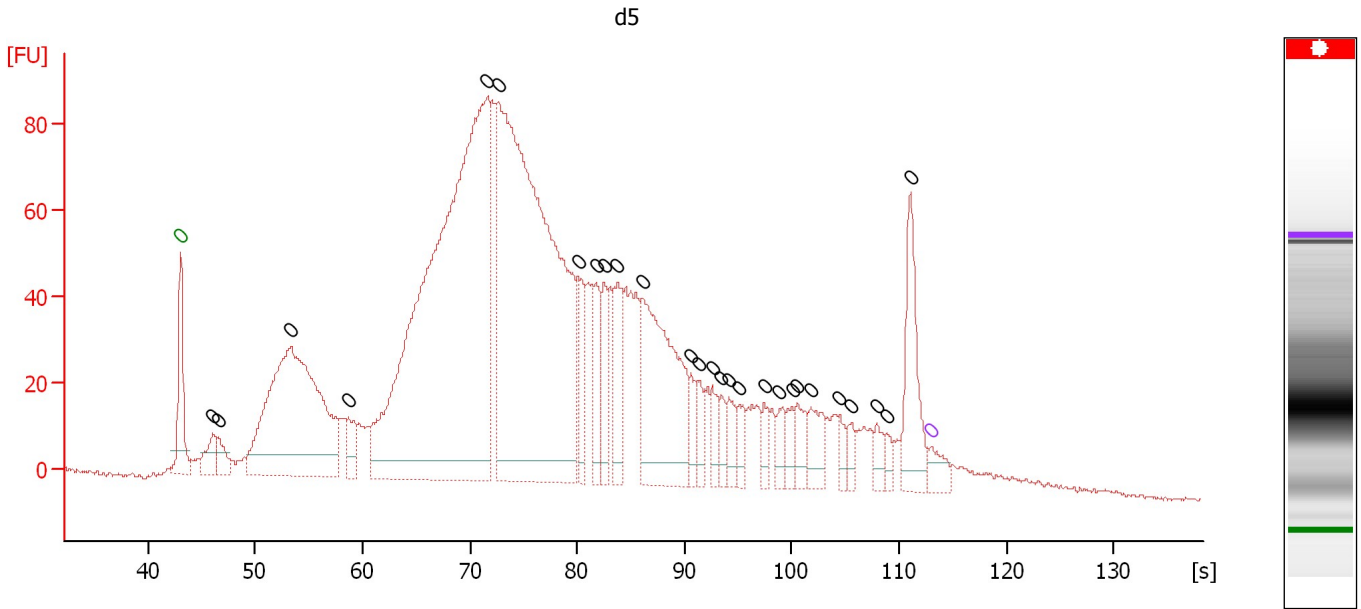
Electropherogram Summary Continued ...**... Peak table for sample 4 : d4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		112.46
29	0	0.00	0.0	Upper Marker	113.00
30	0	0.00	0.0		114.58
31	0	0.00	0.0		115.37

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Electropherogram Summary Continued ...



Overall Results for sample 5 : d5

Number of peaks found: 27 Noise: 0.6

Peak table for sample 5 : d5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		46.00
3	0	0.00	0.0		46.51
4	0	0.00	0.0		53.31
5	0	0.00	0.0		58.67
6	0	0.00	0.0		71.64
7	0	0.00	0.0		72.59
8	0	0.00	0.0		80.10
9	0	0.00	0.0		81.76
10	0	0.00	0.0		82.56
11	0	0.00	0.0		83.76
12	0	0.00	0.0		86.06
13	0	0.00	0.0		90.62
14	0	0.00	0.0		91.27
15	0	0.00	0.0		92.57
16	0	0.00	0.0		93.37
17	0	0.00	0.0		94.17
18	0	0.00	0.0		95.07
19	0	0.00	0.0		97.43
20	0	0.00	0.0		98.88
21	0	0.00	0.0		100.03
22	0	0.00	0.0		100.58
23	0	0.00	0.0		101.78
24	0	0.00	0.0		104.44
25	0	0.00	0.0		105.54
26	0	0.00	0.0		107.89
27	0	0.00	0.0		108.84

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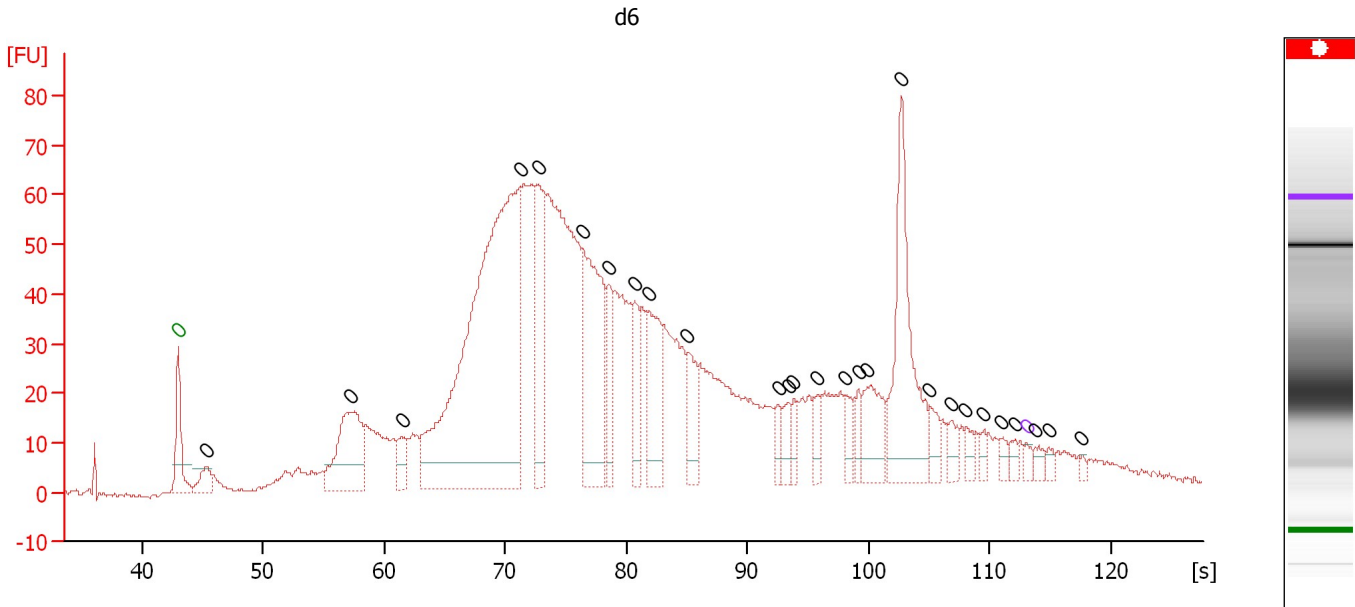
Electropherogram Summary Continued ...**... Peak table for sample 5 : d5**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		111.05
29	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : d6

Number of peaks found: 27 Noise: 0.5

Peak table for sample 6 : d6

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.31
3	0	0.00	0.0		57.23
4	0	0.00	0.0		61.49
5	0	0.00	0.0		71.20
6	0	0.00	0.0		72.70
7	0	0.00	0.0		76.38
8	0	0.00	0.0		78.51
9	0	0.00	0.0		80.68
10	0	0.00	0.0		81.83
11	0	0.00	0.0		85.03
12	0	0.00	0.0		92.52
13	0	0.00	0.0		93.36
14	0	0.00	0.0		93.80
15	0	0.00	0.0		95.80
16	0	0.00	0.0		98.02
17	0	0.00	0.0		99.17
18	0	0.00	0.0		99.88
19	0	0.00	0.0		102.67
20	0	0.00	0.0		105.06
21	0	0.00	0.0		106.88
22	0	0.00	0.0		107.99
23	0	0.00	0.0		109.50
24	0	0.00	0.0		110.96
25	0	0.00	0.0		112.07
26	0	0.00	0.0	Upper Marker	113.00
27	0	0.00	0.0		113.75

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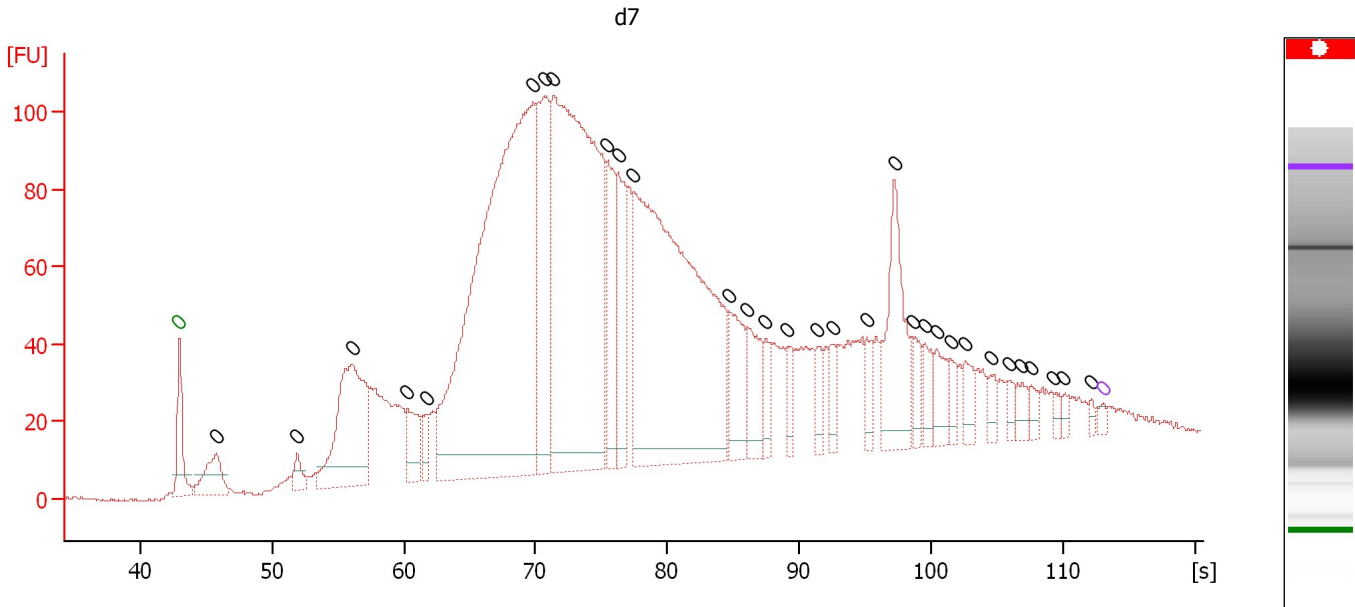
Electropherogram Summary Continued ...**... Peak table for sample 6 : d6**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		114.82
29	0	0.00	0.0		117.61

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Electropherogram Summary Continued ...



Overall Results for sample 7 : d7

Number of peaks found: 31 Noise: 0.4

Peak table for sample 7 : d7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.85
3	0	0.00	0.0		51.95
4	0	0.00	0.0		56.10
5	0	0.00	0.0		60.30
6	0	0.00	0.0		61.72
7	0	0.00	0.0		69.82
8	0	0.00	0.0		70.63
9	0	0.00	0.0		71.37
10	0	0.00	0.0		75.40
11	0	0.00	0.0		76.25
12	0	0.00	0.0		77.43
13	0	0.00	0.0		84.72
14	0	0.00	0.0		86.06
15	0	0.00	0.0		87.44
16	0	0.00	0.0		89.07
17	0	0.00	0.0		91.31
18	0	0.00	0.0		92.53
19	0	0.00	0.0		95.09
20	0	0.00	0.0		97.17
21	0	0.00	0.0		98.63
22	0	0.00	0.0		99.49
23	0	0.00	0.0		100.42
24	0	0.00	0.0		101.48
25	0	0.00	0.0		102.62
26	0	0.00	0.0		104.45
27	0	0.00	0.0		105.92

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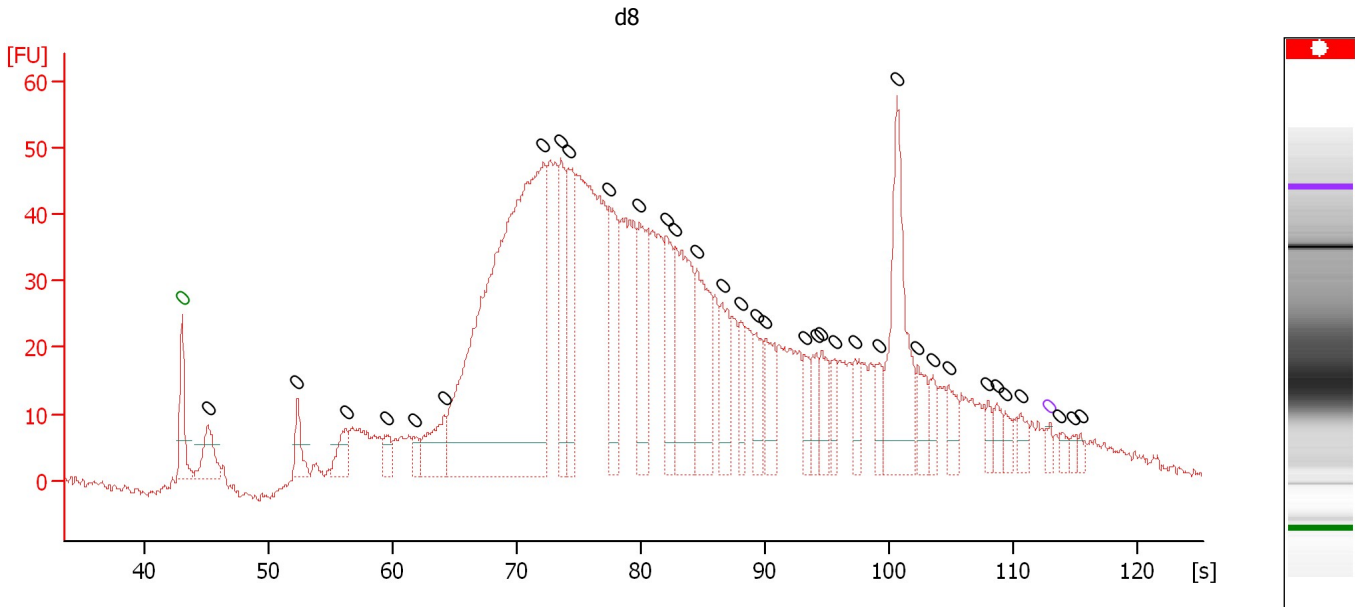
Electropherogram Summary Continued ...**... Peak table for sample 7 : d7**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		106.81
29	0	0.00	0.0		107.59
30	0	0.00	0.0		109.30
31	0	0.00	0.0		109.99
32	0	0.00	0.0		112.10
33	0	0.00	0.0	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 8 : d8

Number of peaks found: 35 Noise: 0.7

Peak table for sample 8 : d8

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.08
3	0	0.00	0.0		52.31
4	0	0.00	0.0		56.25
5	0	0.00	0.0		59.50
6	0	0.00	0.0		61.71
7	0	0.00	0.0		64.14
8	0	0.00	0.0		72.15
9	0	0.00	0.0		73.58
10	0	0.00	0.0		74.19
11	0	0.00	0.0		77.48
12	0	0.00	0.0		79.91
13	0	0.00	0.0		82.12
14	0	0.00	0.0		82.81
15	0	0.00	0.0		84.54
16	0	0.00	0.0		86.58
17	0	0.00	0.0		88.05
18	0	0.00	0.0		89.31
19	0	0.00	0.0		90.09
20	0	0.00	0.0		93.20
21	0	0.00	0.0		94.20
22	0	0.00	0.0		94.59
23	0	0.00	0.0		95.63
24	0	0.00	0.0		97.28
25	0	0.00	0.0		99.23
26	0	0.00	0.0		100.65
27	0	0.00	0.0		102.30

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Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/7/2017 5:52:05 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 :

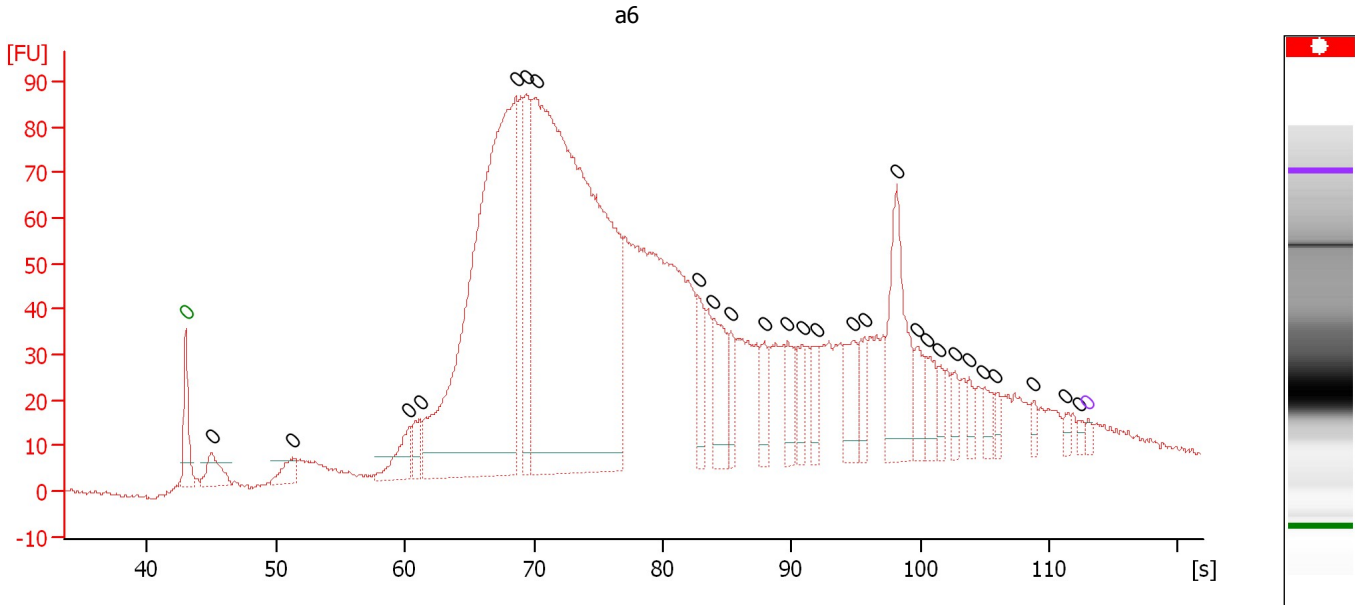
d8

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		103.51
29	0	0.00	0.0		104.86
30	0	0.00	0.0		108.02
31	0	0.00	0.0		108.75
32	0	0.00	0.0		109.40
33	0	0.00	0.0		110.62
34	0	0.00	0.0	Upper Marker	113.00
35	0	0.00	0.0		113.82
36	0	0.00	0.0		114.86
37	0	0.00	0.0		115.47

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/7/2017 5:52:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : a6

Number of peaks found: 27 Noise: 0.5

Peak table for sample 9 : a6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.00
3	0	0.00	0.0		51.29
4	0	0.00	0.0		60.33
5	0	0.00	0.0		61.17
6	0	0.00	0.0		68.63
7	0	0.00	0.0		69.42
8	0	0.00	0.0		70.17
9	0	0.00	0.0		82.75
10	0	0.00	0.0		83.96
11	0	0.00	0.0		85.33
12	0	0.00	0.0		87.88
13	0	0.00	0.0		89.67
14	0	0.00	0.0		90.83
15	0	0.00	0.0		92.00
16	0	0.00	0.0		94.75
17	0	0.00	0.0		95.67
18	0	0.00	0.0		98.17
19	0	0.00	0.0		99.75
20	0	0.00	0.0		100.46
21	0	0.00	0.0		101.42
22	0	0.00	0.0		102.71
23	0	0.00	0.0		103.79
24	0	0.00	0.0		104.92
25	0	0.00	0.0		105.83
26	0	0.00	0.0		108.79
27	0	0.00	0.0		111.25

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/7/2017 5:52:05 PM

Electropherogram Summary Continued ...**... Peak table for sample 9 : a6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		112.29
29	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/7/2017 5:52:05 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/7/2017 5:52:05 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay Created: 3/7/2017 5:14:41 PM
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad Modified: 3/7/2017 5:52:05 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		3/7/2017 5:50:16 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\2017-03-07\2017-03-07_007.xad)		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1