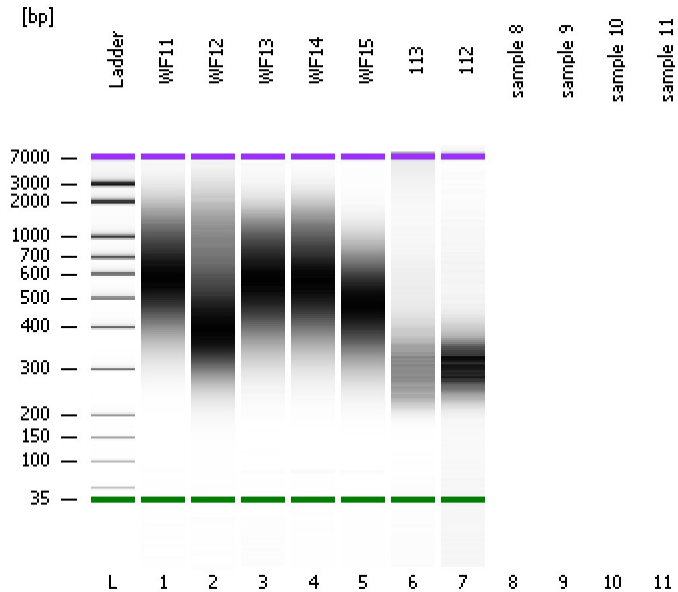


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
Modified: 7/1/2015 2:35:53 PM

Electrophoresis File Run Summary



Instrument Information:

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

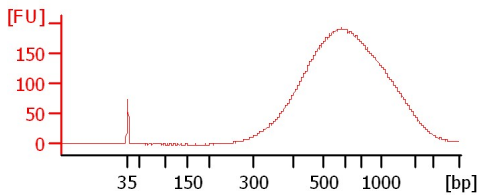
Assay Information:

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

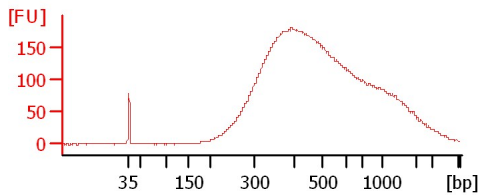
Chip Information:

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

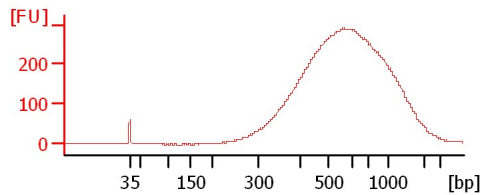
WF11



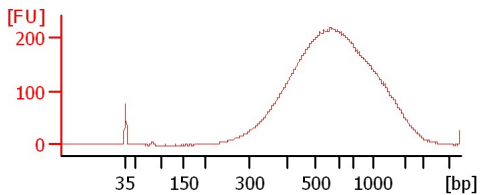
WF12



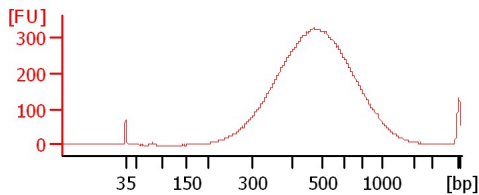
WF13



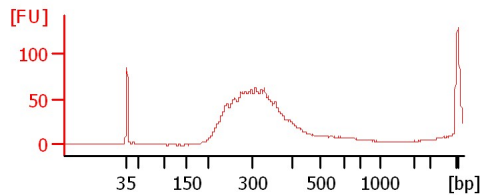
WF14



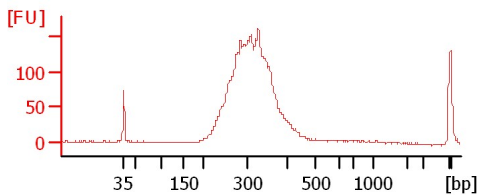
WF15



113



112



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WF11		<input type="checkbox"/>	✓			
WF12		<input type="checkbox"/>	✓			
WF13		<input type="checkbox"/>	✓			
WF14		<input type="checkbox"/>	✓			
WF15		<input type="checkbox"/>	✓			
113		<input type="checkbox"/>	✓			
112		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✗			
sample 9		<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:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
Modified: 7/1/2015 2:35:53 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

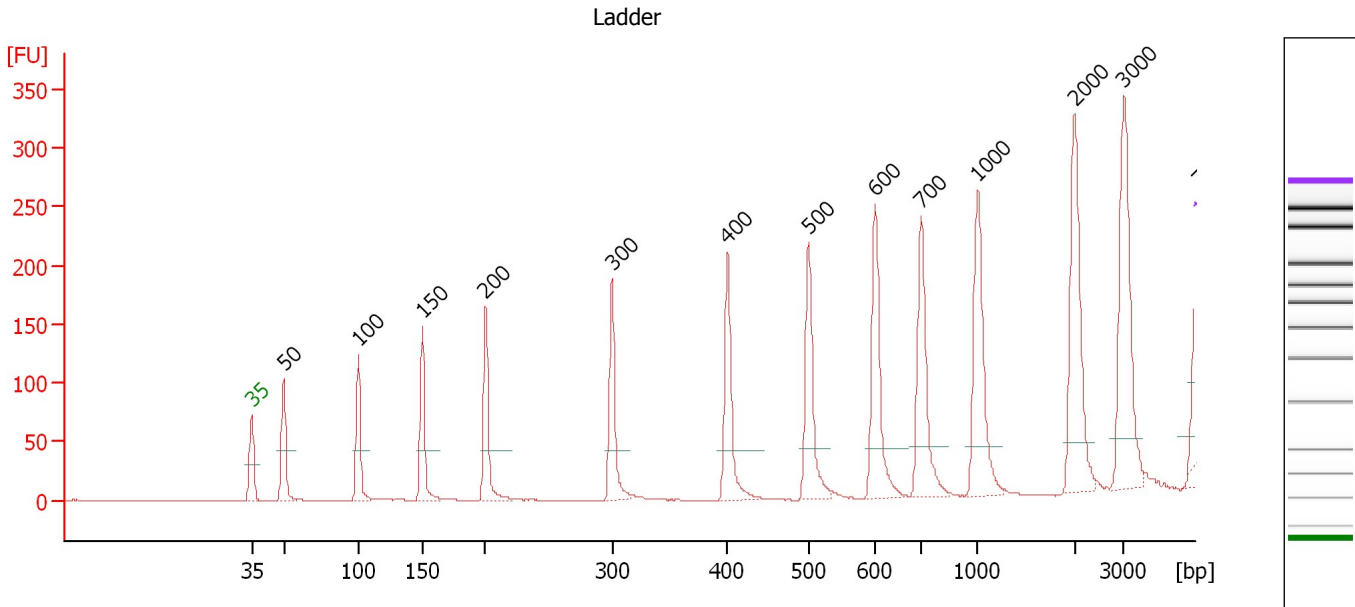
Ladder

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:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

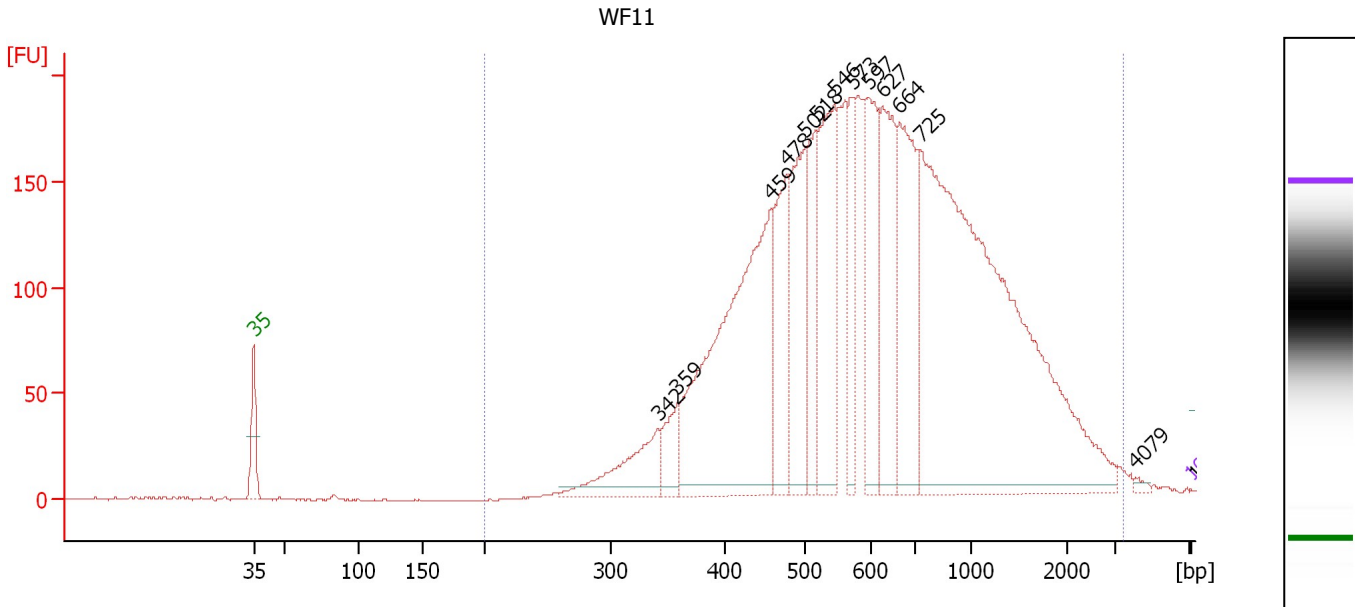
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.87
4	150	150.00	1,515.2	Ladder Peak	55.59
5	200	150.00	1,136.4	Ladder Peak	60.27
6	300	150.00	757.6	Ladder Peak	69.60
7	400	150.00	568.2	Ladder Peak	78.14
8	500	150.00	454.5	Ladder Peak	84.12
9	600	150.00	378.8	Ladder Peak	89.04
10	700	150.00	324.7	Ladder Peak	92.42
11	1,000	150.00	227.3	Ladder Peak	96.59
12	2,000	150.00	113.6	Ladder Peak	103.71
13	3,000	150.00	75.8	Ladder Peak	107.37
14	7,000	150.00	32.5	Ladder Peak	112.88
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WF11

Number of peaks found: 14 Corr. Area 1: 4,525.0
 Noise: 0.3

Peak table for sample 1 : WF11

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	43,371.66	192,170.0		73.18
3	359	20,404.43	86,064.8		74.66
4	459	207,597.77	685,355.8		81.66
5	478	58,656.37	186,087.7		82.78
6	502	67,295.17	203,156.3		84.21
7	518	46,004.05	134,540.6		85.01
8	546	82,128.42	228,070.6		86.36
9	573	31,188.72	82,451.5		87.72
10	597	53,208.81	134,946.2		88.91
11	627	65,845.70	159,156.8		89.95
12	664	81,658.46	186,193.7		91.22
13	725	359,169.31	750,325.9		92.77
14	4,079	1,355.68	503.6		108.86
15	10,380	75.00	10.9	Upper Marker	113.00
16	19,501	0.00	0.0		113.32

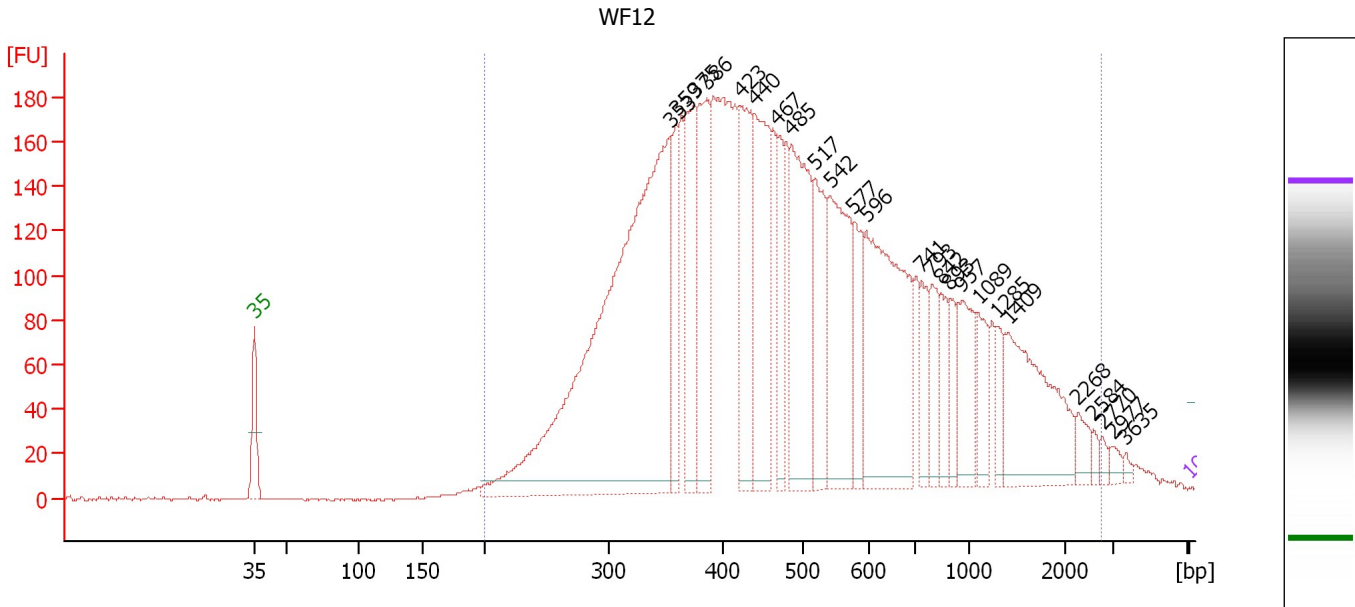
Region table for sample 1 : WF11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	755	3,361	4,525.0	3,018,154.0	100	58.5	1,145,372.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WF12

Number of peaks found: 25 Corr. Area 1: 5,711.8
 Noise: 0.5

Peak table for sample 2 : WF12


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	353	1,145,868.50	4,914,723.0		74.15
3	359	111,615.45	471,241.4		74.63
4	375	202,085.48	817,007.1		75.98
5	386	200,748.19	788,956.9		76.90
6	423	194,496.89	697,109.3		79.50
7	440	227,867.77	784,501.6		80.54
8	467	86,325.37	279,797.0		82.17
9	485	268,771.56	838,794.1		83.25
10	517	151,028.97	442,382.8		84.97
11	542	232,172.84	649,482.1		86.17
12	577	80,964.89	212,777.3		87.88
13	596	340,980.22	866,807.9		88.84
14	741	53,109.16	108,560.0		92.99
15	793	56,862.35	108,653.6		93.71
16	842	47,163.21	84,892.8		94.39
17	893	36,965.73	62,687.4		95.11
18	957	88,873.18	140,758.6		95.99
19	1,089	50,609.71	70,402.8		97.23
20	1,285	29,600.00	34,890.2		98.62
21	1,409	185,771.58	199,800.1		99.50
22	2,268	20,588.32	13,754.7		104.69
23	2,584	7,459.45	4,373.3		105.85
24	2,770	7,616.47	4,166.3		106.53
25	2,977	8,608.93	4,381.2		107.29

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : WF12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,635	5,182.38	2,160.0		108.25
27	 10,380	75.00	10.9	Upper Marker	113.00

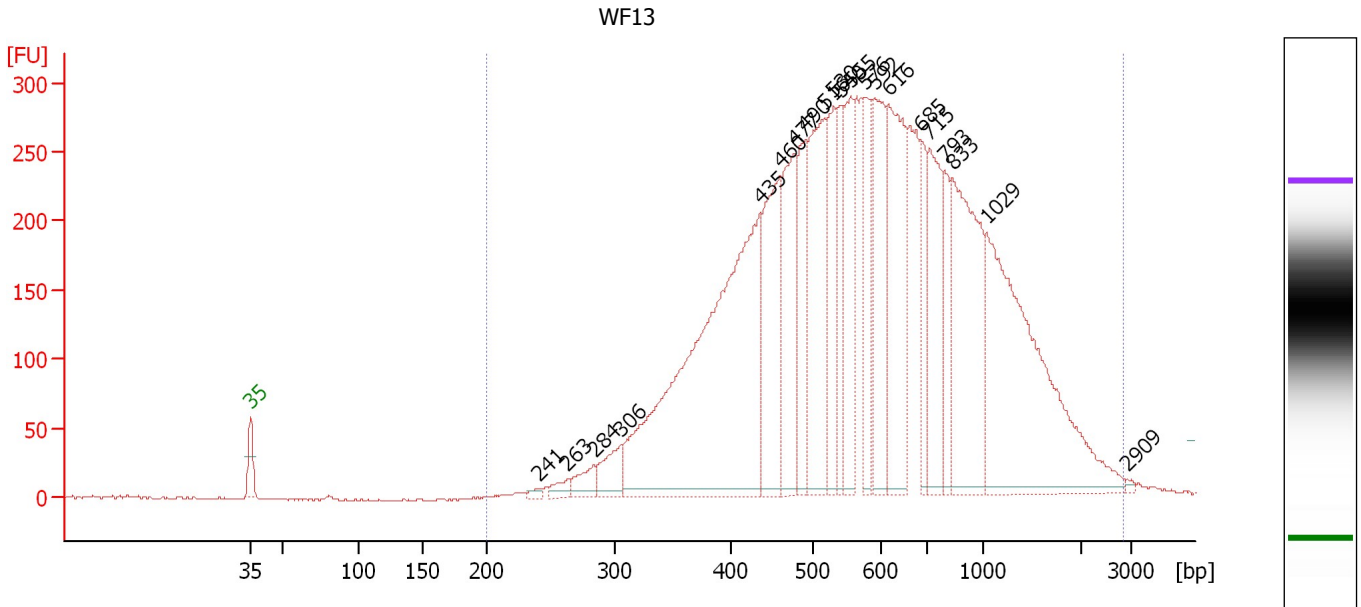
Region table for sample 2 : WF12

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	607	2,734	5,711.8	16,453,997.0	 99	68.6	4,721,934.50

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WF13

Number of peaks found: 21 Corr. Area 1: 7,529.4
 Noise: 0.6


Peak table for sample 3 : WF13

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	241	688.37	4,324.7		64.11
3	263	1,719.85	9,896.5		66.18
4	284	3,289.26	17,562.1		68.09
5	306	5,609.39	27,815.8		70.07
6	435	80,041.71	278,699.2		80.24
7	460	21,976.30	72,401.9		81.72
8	477	18,619.10	59,082.3		82.77
9	490	13,446.41	41,590.4		83.51
10	516	23,805.67	69,877.4		84.91
11	530	13,189.48	37,731.3		85.58
12	540	9,021.23	25,315.0		86.08
13	556	13,725.97	37,472.9		86.82
14	576	9,375.80	24,647.0		87.87
15	592	16,211.40	41,476.5		88.65
16	616	22,890.22	56,274.5		89.59
17	685	7,996.60	17,678.1		91.93
18	715	14,702.93	31,164.4		92.63
19	793	7,431.79	14,194.6		93.72
20	833	27,500.71	50,051.1		94.26
21	1,029	42,205.88	62,173.4		96.80
22	2,909	275.52	143.5		107.04
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
Modified: 7/1/2015 2:35:53 PM

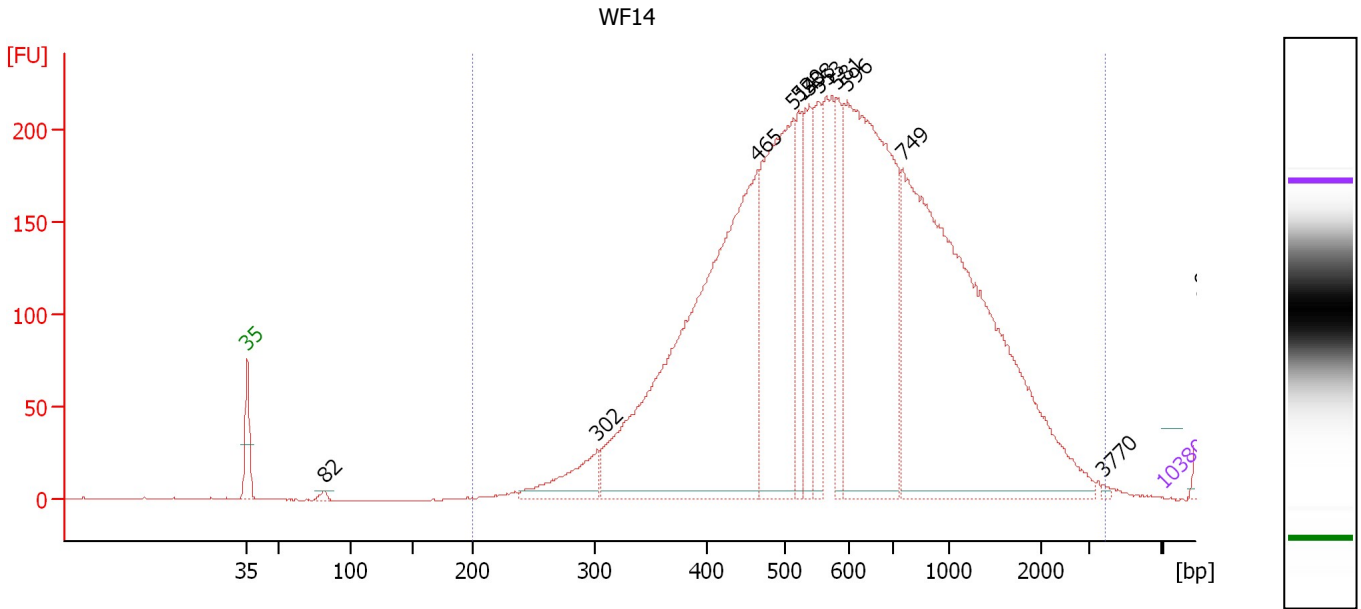
Electropherogram Summary Continued ...**... Region table for sample 3 : WF13**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	690	2,815	7,529.4	1,082,227.5	 100	53.9	384,035.38

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WF14

Number of peaks found: 13 Corr. Area 1: 5,699.5
 Noise: 0.4

Peak table for sample 4 : WF14

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	82	1,535.52	28,422.0		48.87
3	302	19,531.21	97,931.7		69.79
4	465	208,723.36	680,335.6		82.02
5	514	92,768.06	273,666.0		84.79
6	520	20,636.27	60,101.1		85.11
7	538	27,654.57	77,933.6		85.97
8	553	25,909.84	71,045.3		86.70
9	581	18,094.34	47,207.3		88.09
10	596	132,195.25	335,785.6		88.86
11	749	204,411.97	413,402.3		93.10
12	3,770	544.88	219.0		108.43
13	10,380	75.00	10.9	Upper Marker	113.00
14	94,425	0.00	0.0		115.94
15	97,927	0.00	0.0		116.06

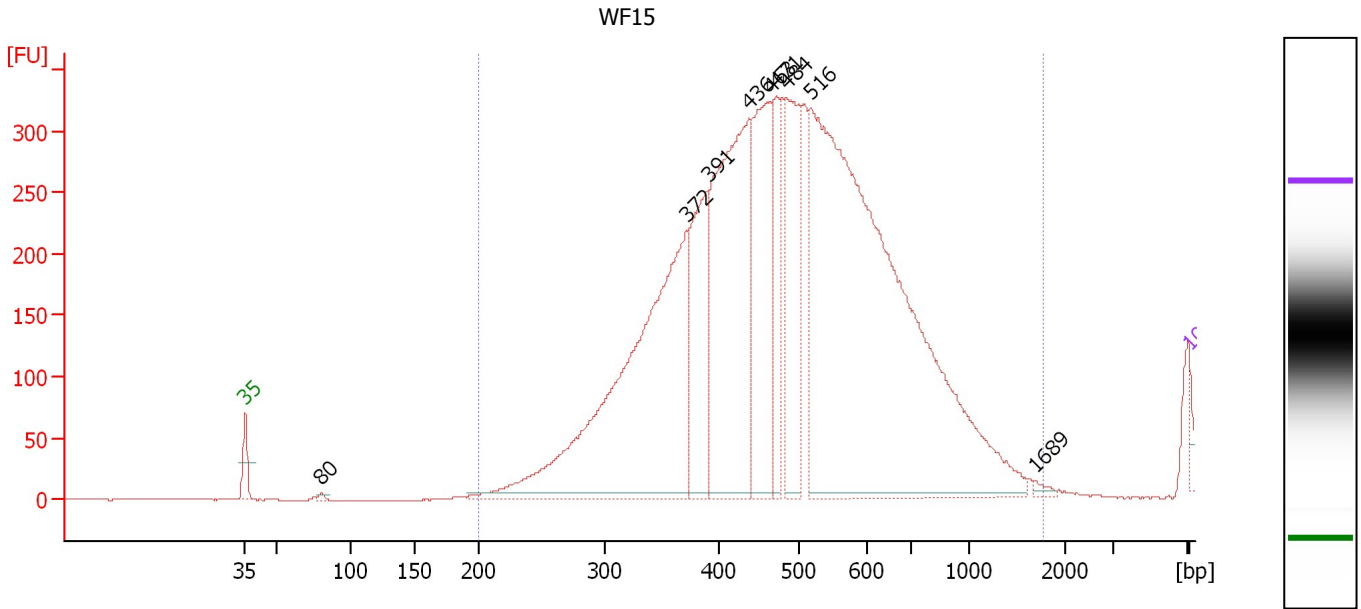
Region table for sample 4 : WF14

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	726	3,910	5,699.5	2,195,468.0	99	61.2	784,901.69

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WF15

Number of peaks found: 9 Corr. Area 1: 4,686.7
 Noise: 0.3

Peak table for sample 5 : WF15

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	80	30.83	584.9		48.65
3	372	5,078.50	20,697.5		75.73
4	391	1,415.36	5,488.1		77.35
5	436	3,470.94	12,052.0		80.31
6	463	1,809.87	5,916.9		81.93
7	471	727.43	2,338.2		82.41
8	484	1,522.73	4,767.5		83.16
9	516	8,909.55	26,170.0		84.90
10	1,689	34.14	30.6		101.50
11	10,380	75.00	10.9	Upper Marker	113.00

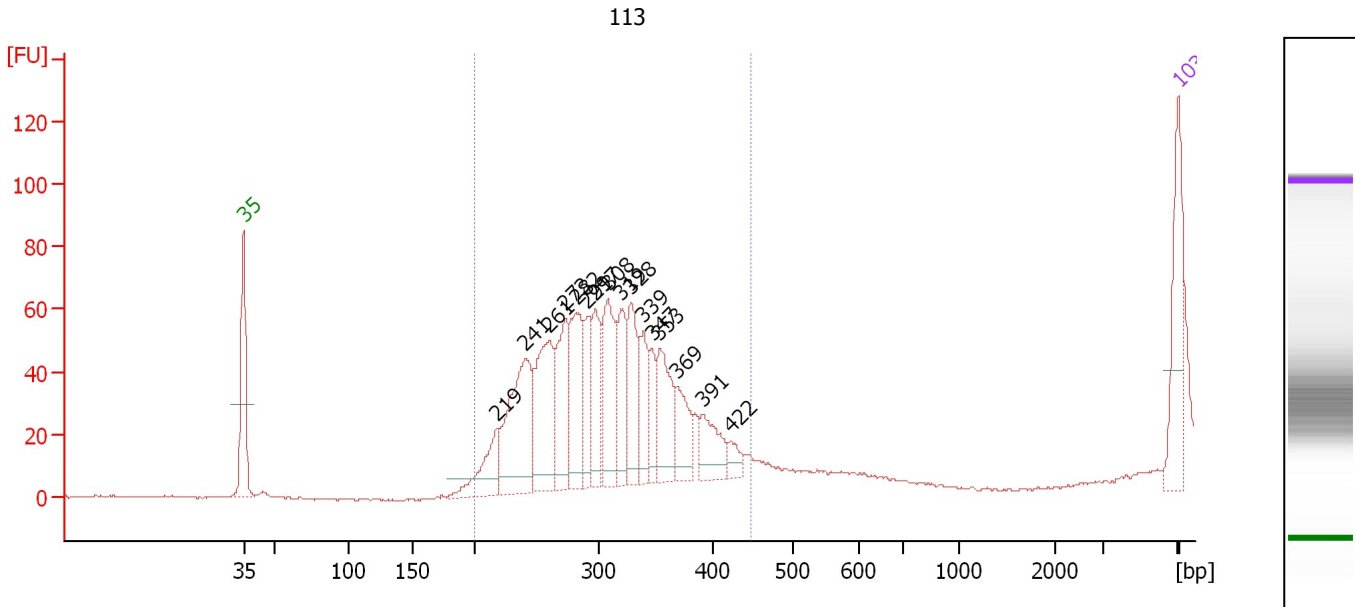
Region table for sample 5 : WF15

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	479	1,783	4,686.7	45,928.8	100	20.1	13,734.19

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 113

Number of peaks found: 16 Corr. Area 1: 565.3
 Noise: 0.2

Peak table for sample 6 : 113

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	219	74.37	515.5		62.01
3	241	199.48	1,254.9		64.08
4	261	156.26	908.7		65.92
5	273	112.63	624.2		67.12
6	282	125.04	671.9		67.92
7	291	67.38	350.9		68.76
8	297	80.25	409.4		69.31
9	308	122.92	604.0		70.31
10	319	79.60	377.9		71.23
11	328	88.58	409.2		71.99
12	339	60.54	270.8		72.91
13	347	39.06	170.7		73.59
14	353	92.07	394.9		74.15
15	369	59.11	242.9		75.46
16	391	56.73	220.0		77.34
17	422	17.80	63.9		79.46
18	10,380	75.00	10.9	Upper Marker	113.00

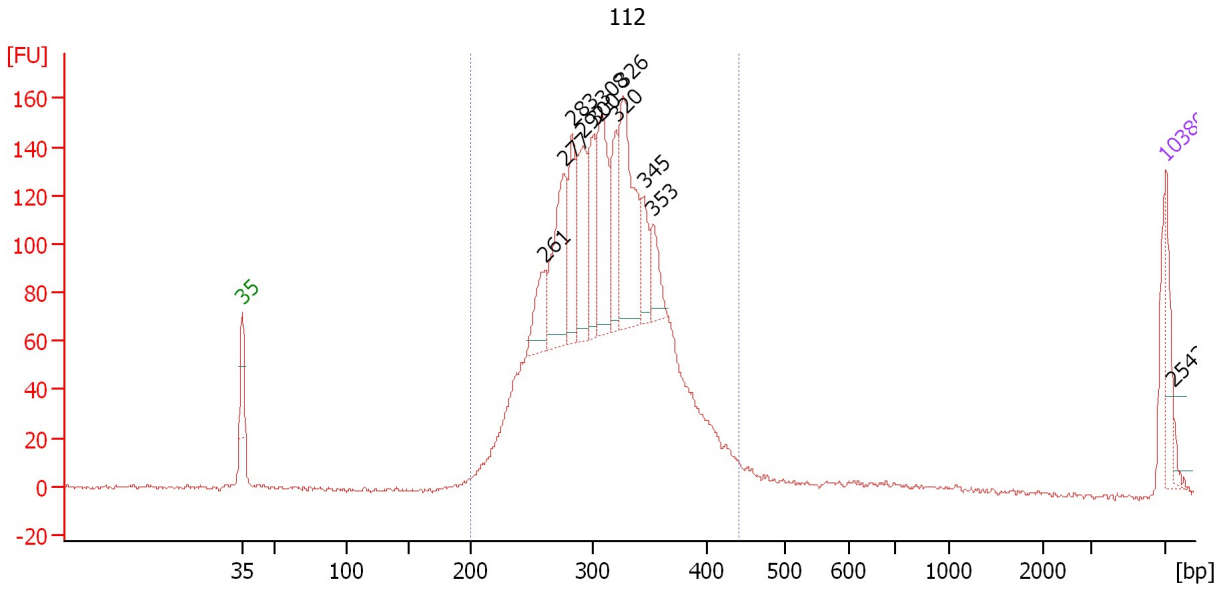
Region table for sample 6 : 113

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	296	448	565.3	3,929.9	99	12.6	753.11

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
 Modified: 7/1/2015 2:35:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 112

Number of peaks found: 11 Corr. Area 1: 2,343.0
 Noise: 0.8

Peak table for sample 7 : 112

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	261	134.01	778.1		65.96
3	277	317.76	1,741.0		67.41
4	283	197.60	1,059.4		67.98
5	292	235.93	1,223.6		68.87
6	300	171.68	865.9		69.63
7	308	287.03	1,412.1		70.28
8	320	156.26	739.2		71.33
9	326	407.94	1,896.2		71.82
10	345	98.74	433.8		73.43
11	353	89.51	384.3		74.12
12	10,380	75.00	10.9	Upper Marker	113.00
13	25,423	0.00	0.0		113.53

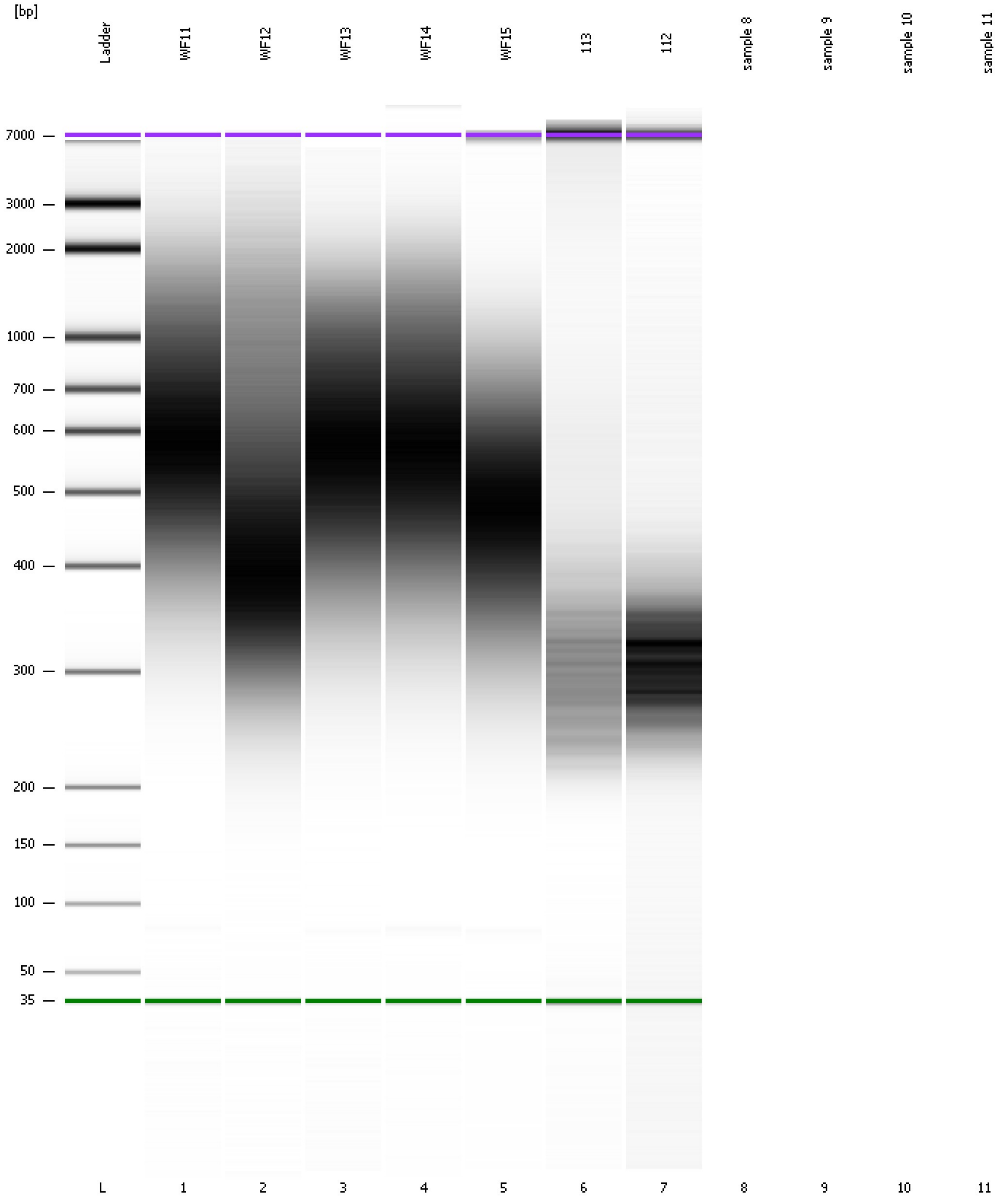
Region table for sample 7 : 112

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	310	442	2,343.0	26,725.2	95	14.5	5,333.06

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
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Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-01\2015-07-01_003.xad

Created: 7/1/2015 1:59:36 PM
Modified: 7/1/2015 2:35:53 PM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.