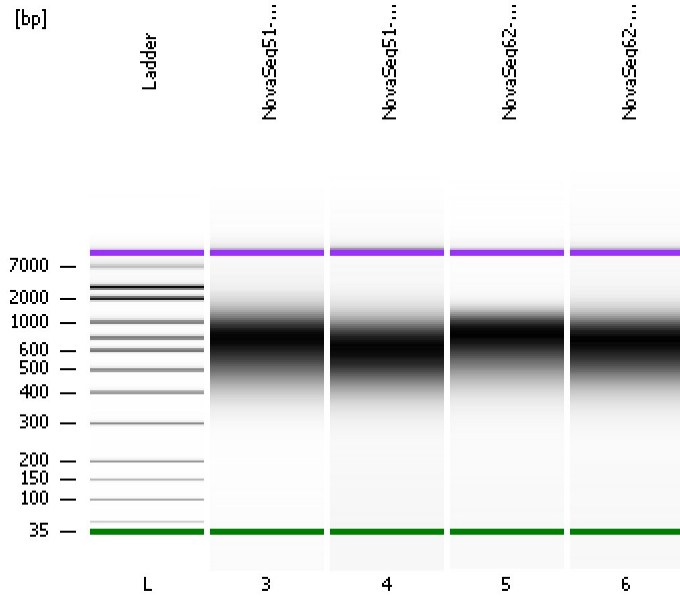


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
Modified: 9/26/2019 9:43:36 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

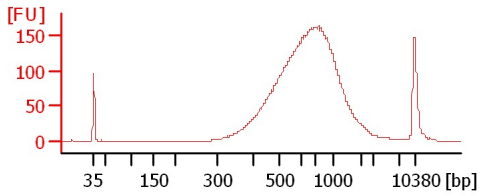
Assay Information:

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

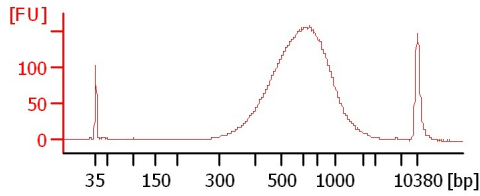
Chip Information:

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

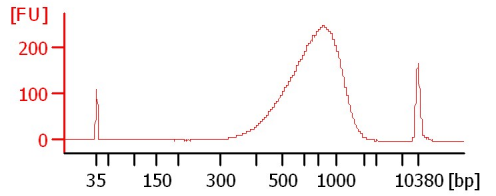
NovaSeq51-48 NEB MethylSeq Lib



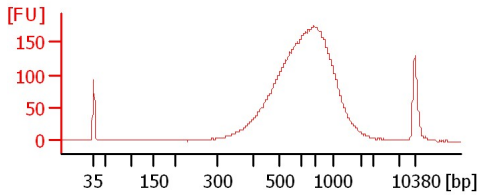
NovaSeq51-52 NEB MethylSeq Lib



NovaSeq62-2 NEB MethylSeq Lib



NovaSeq62-8 NEB MethylSeq Lib



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
Modified: 9/26/2019 9:43:36 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
NovaSeq51-48 NEB MethylSeq Lib		<input type="checkbox"/>	✓			
NovaSeq51-52 NEB MethylSeq Lib		<input type="checkbox"/>	✓			
NovaSeq62-2 NEB MethylSeq Lib		<input type="checkbox"/>	✓			
NovaSeq62-8 NEB MethylSeq Lib		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
Modified: 9/26/2019 9:43:36 AM

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

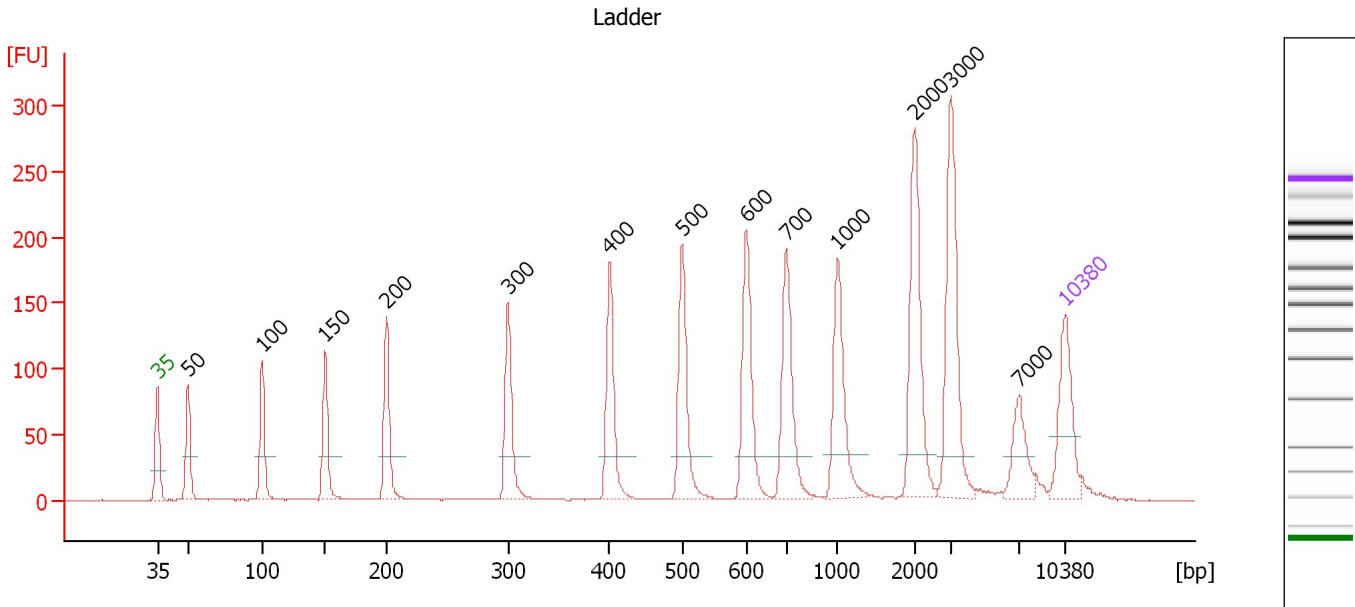
Ladder

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:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
 Modified: 9/26/2019 9:43:36 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

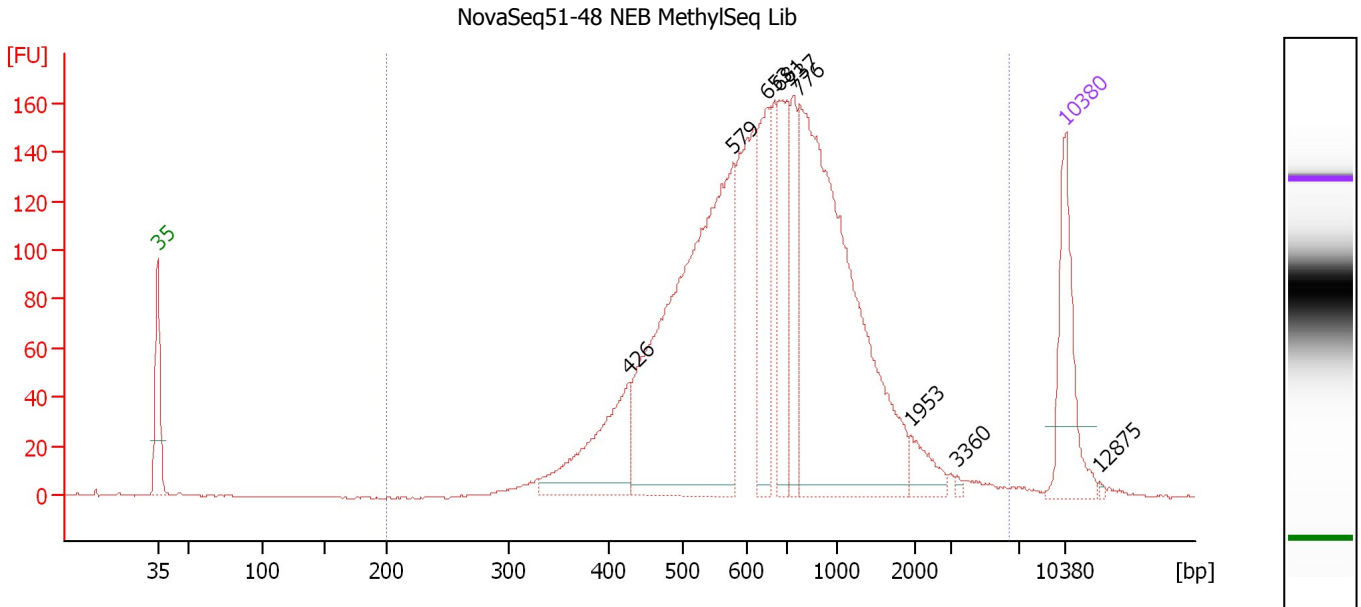
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.93
5	200	150.00	1,136.4	Ladder Peak	60.65
6	300	150.00	757.6	Ladder Peak	70.03
7	400	150.00	568.2	Ladder Peak	77.84
8	500	150.00	454.5	Ladder Peak	83.46
9	600	150.00	378.8	Ladder Peak	88.39
10	700	150.00	324.7	Ladder Peak	91.49
11	1,000	150.00	227.3	Ladder Peak	95.44
12	2,000	150.00	113.6	Ladder Peak	101.37
13	3,000	150.00	75.8	Ladder Peak	104.15
14	7,000	150.00	32.5	Ladder Peak	109.41
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
 Modified: 9/26/2019 9:43:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NovaSeq51-48 NEB MethylSeq Lib

Number of peaks found: 9 Corr. Area 1: 2,943.5
 Noise: 0.3

Peak table for sample 3 : NovaSeq51-48 NEB MethylSeq Lib

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	426	128.62	457.0		79.33
3	579	500.03	1,307.8		87.37
4	653	109.90	255.2		90.02
5	681	99.72	221.8		90.91
6	737	68.27	140.4		91.98
7	776	488.12	953.5		92.49
8	1,953	23.44	18.2		101.09
9	3,360	2.20	1.0		104.63
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,875	0.00	0.0		115.65

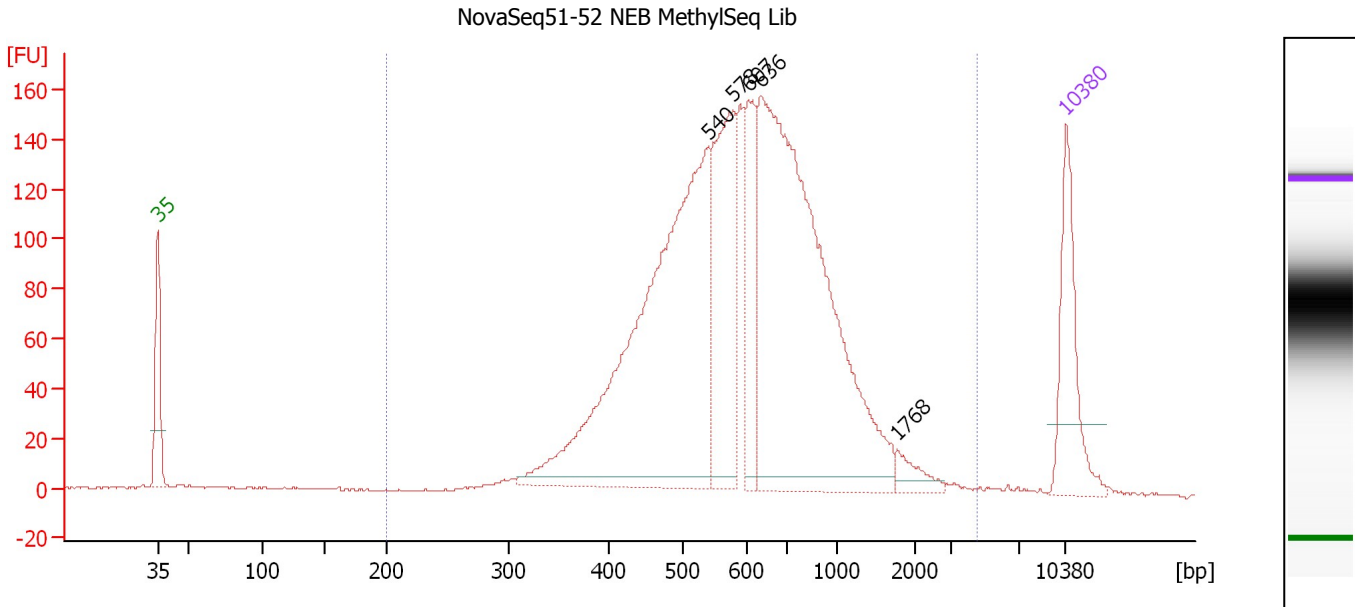
Region table for sample 3 : NovaSeq51-48 NEB MethylSeq Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	6,423	807	1,671.54	2,943.5	4,036.0	99	68.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
 Modified: 9/26/2019 9:43:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : NovaSeq51-52 NEB MethylSeq Lib

Number of peaks found: 5 Corr. Area 1: 2,886.2
 Noise: 0.3

Peak table for sample 4 : NovaSeq51-52 NEB MethylSeq Lib

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	540	566.69	1,590.3		85.43
3	578	186.46	488.5		87.33
4	607	91.90	229.5		88.61
5	636	581.46	1,385.3		89.51
6	1,768	16.80	14.4		100.00
7	10,380	75.00	10.9	Upper Marker	113.00

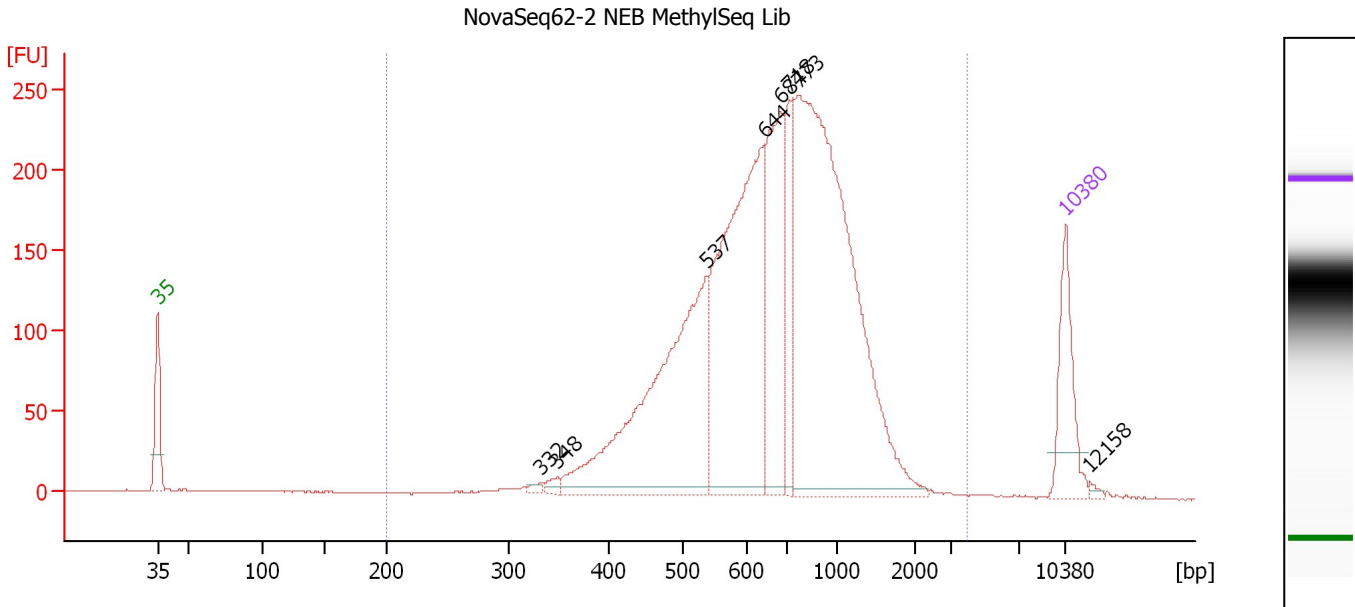
Region table for sample 4 : NovaSeq51-52 NEB MethylSeq Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	4,509	683	1,596.10	2,886.2	4,239.2	98	52.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
 Modified: 9/26/2019 9:43:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NovaSeq62-2 NEB MethylSeq Lib

Number of peaks found: 8 Corr. Area 1: 3,822.8
 Noise: 0.3

Peak table for sample 5 : NovaSeq62-2 NEB MethylSeq Lib

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	6.65	30.3		72.55
3	348	9.66	42.0		73.81
4	537	457.09	1,289.3		85.29
5	644	481.76	1,134.0		89.75
6	684	216.26	478.8		91.01
7	718	94.85	200.1		91.73
8	773	775.98	1,520.1		92.46
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,158	0.00	0.0		114.89

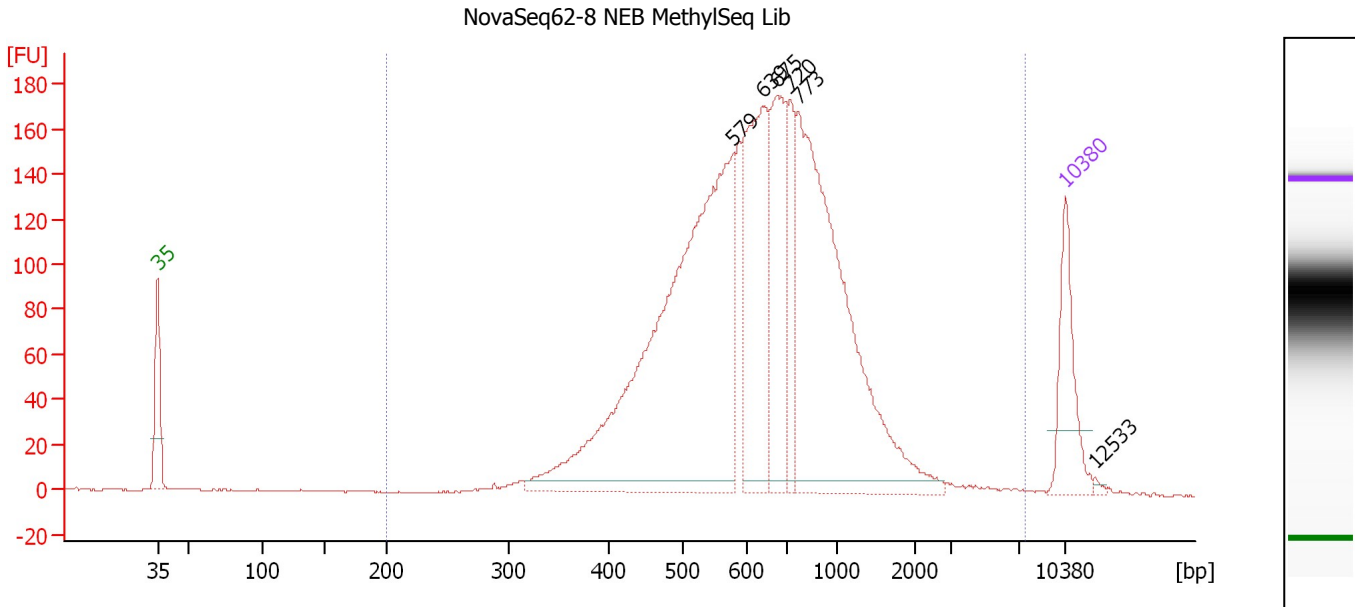
Region table for sample 5 : NovaSeq62-2 NEB MethylSeq Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	3,938	756	2,064.92	3,822.8	4,886.9	98	41.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
 Modified: 9/26/2019 9:43:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NovaSeq62-8 NEB MethylSeq Lib

Number of peaks found: 6 Corr. Area 1: 3,019.5
 Noise: 0.3

Peak table for sample 6 : NovaSeq62-8 NEB MethylSeq Lib

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	579	753.24	1,969.7		87.38
3	639	254.15	602.2		89.62
4	675	176.63	396.6		90.71
5	720	96.15	202.3		91.76
6	773	539.60	1,057.8		92.45
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,533	0.00	0.0		115.29

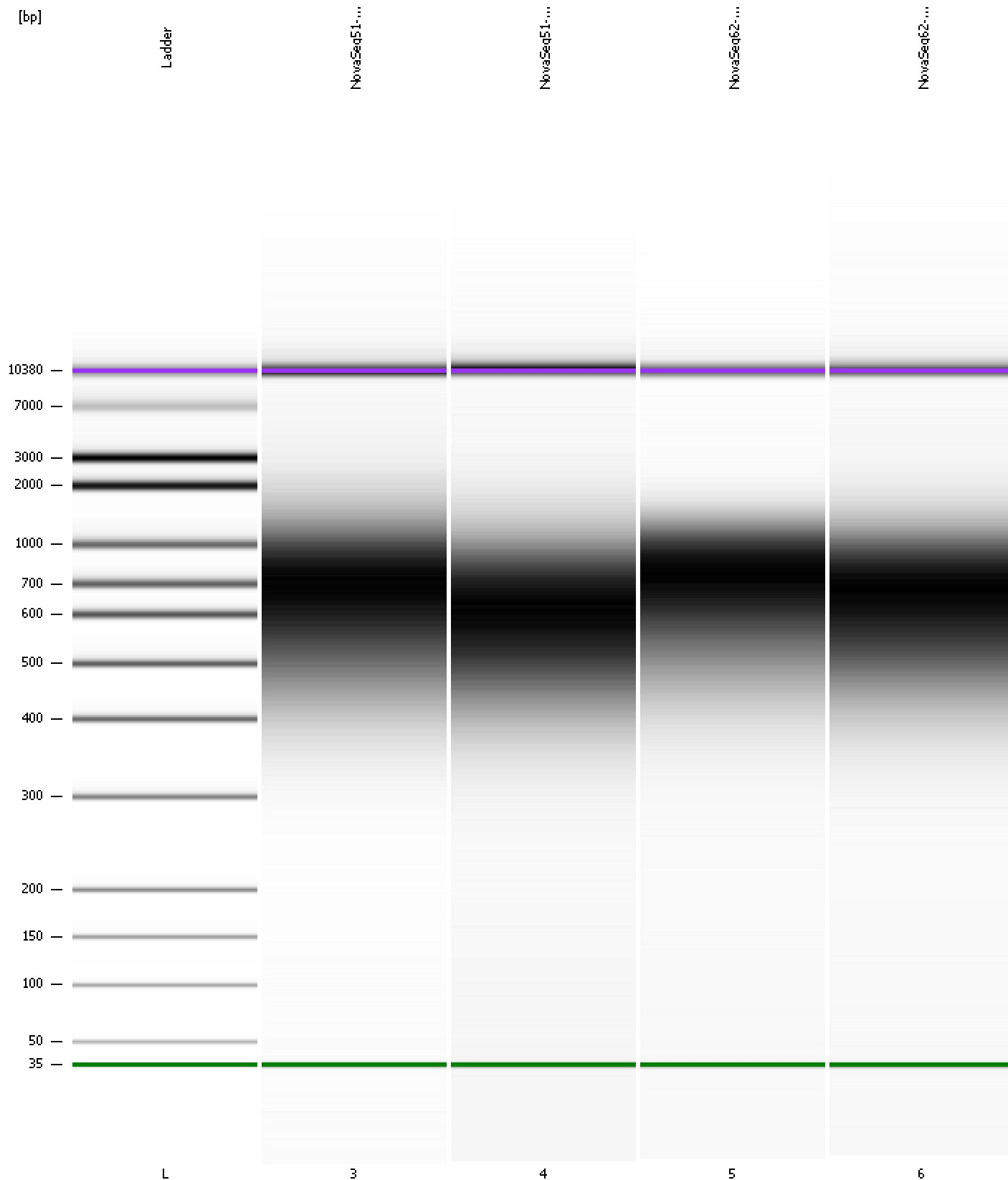
Region table for sample 6 : NovaSeq62-8 NEB MethylSeq Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	7,471	758	2,000.29	3,019.5	4,988.4	98	71.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
Modified: 9/26/2019 9:43:36 AM

Gel Image

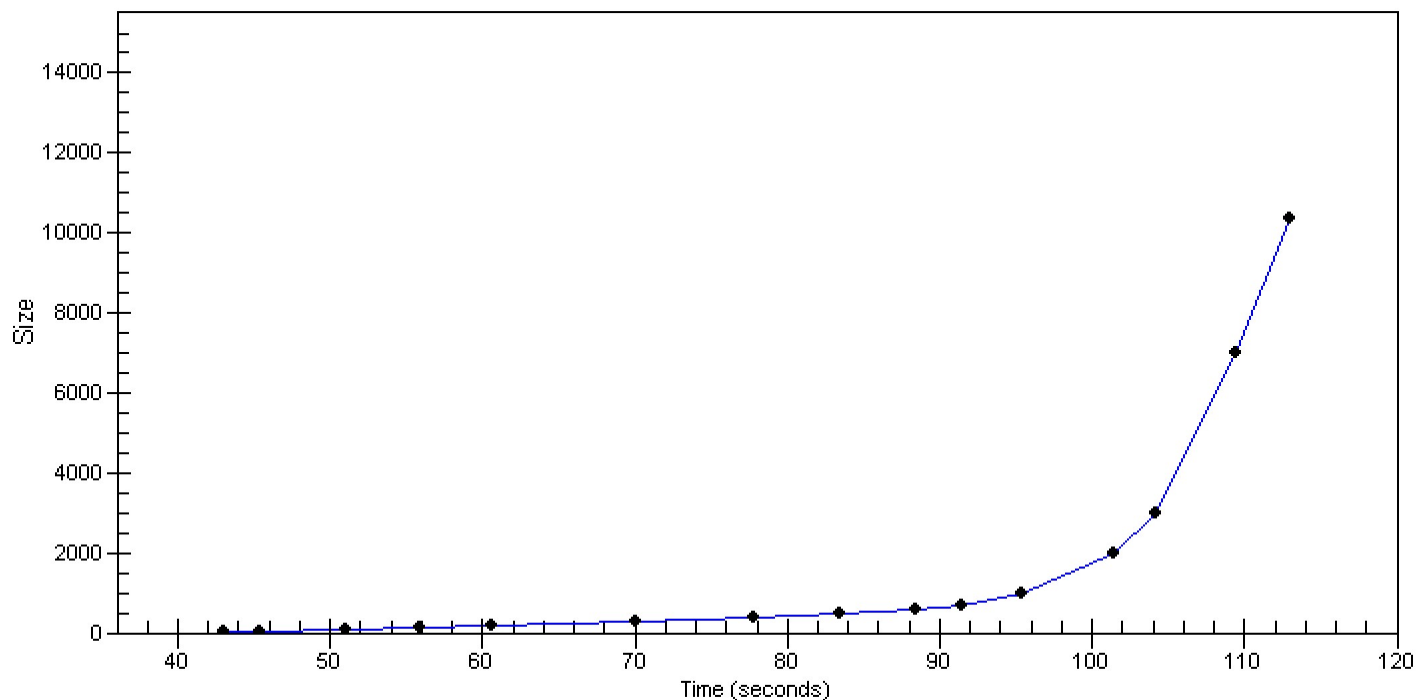


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
Modified: 9/26/2019 9:43:36 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...9-09-24\2019-09-24_001_NEBMethylSeqLibTest_NovaSeq51_62.xad

Created: 9/24/2019 9:53:07 AM
 Modified: 9/26/2019 9:43:36 AM

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		9/24/2019 10:34:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-24\2019-09-24_001.xad)		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/24/2019 9:53:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1