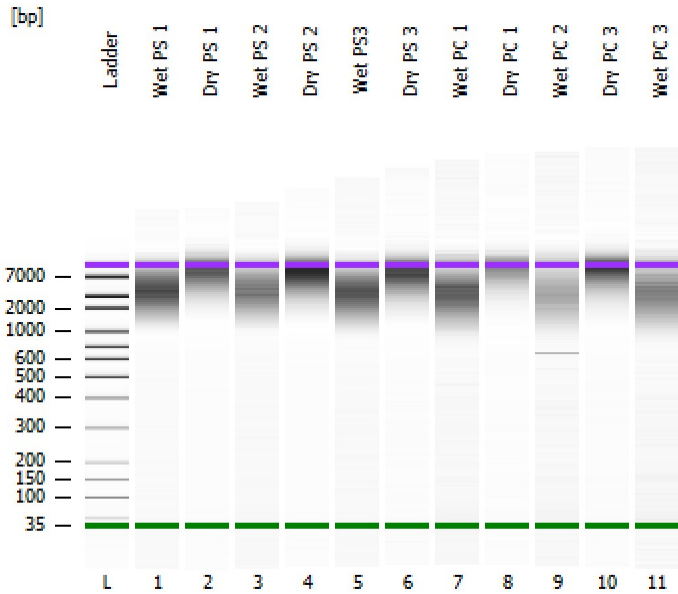


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
Modified: 2/4/2020 10:54:49 AM

Electrophoresis File Run Summary



Instrument Information:

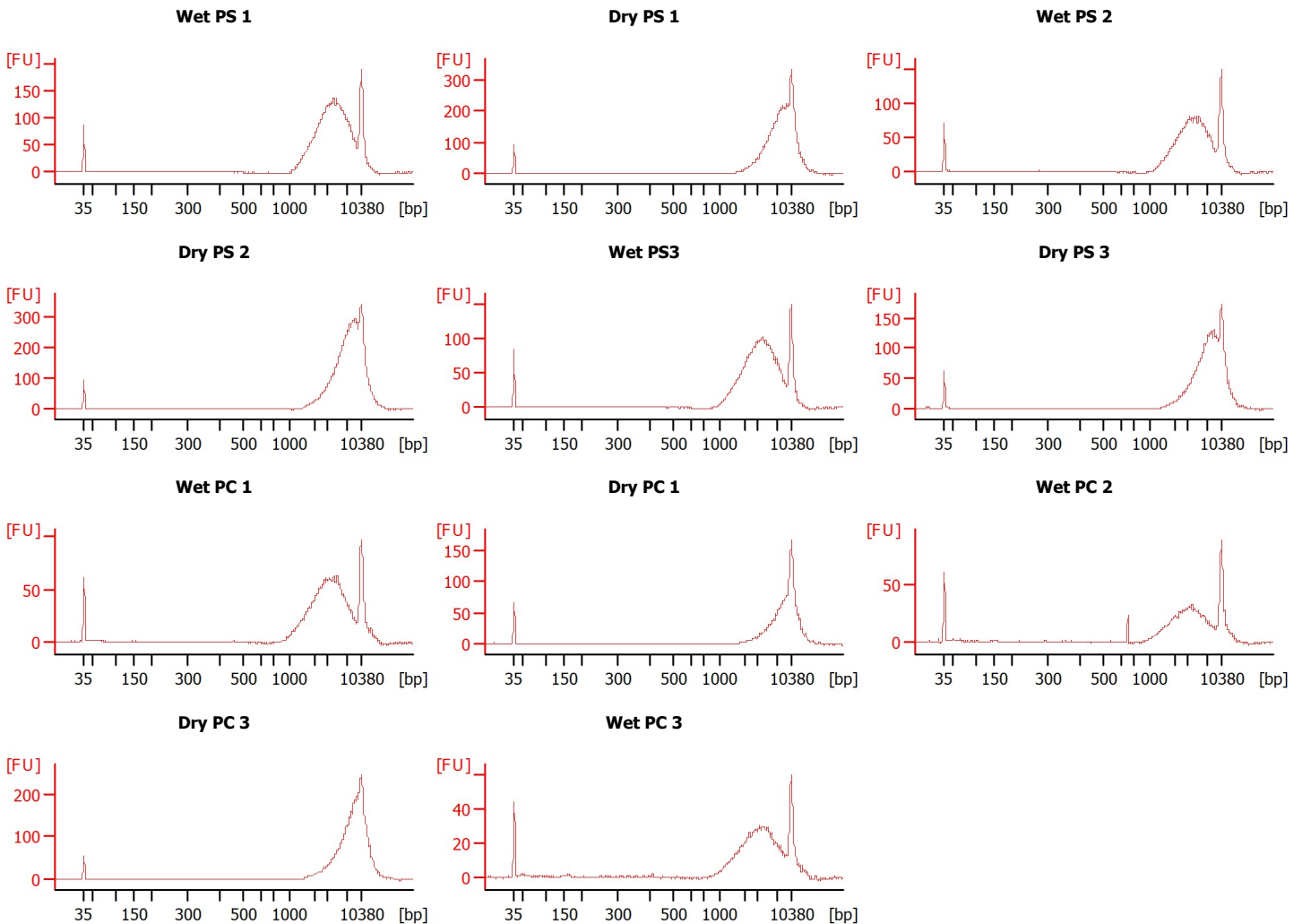
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
 Modified: 2/4/2020 10:54:49 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Wet PS 1		<input type="checkbox"/>	✓			
Dry PS 1		<input type="checkbox"/>	✓			
Wet PS 2		<input type="checkbox"/>	✓			
Dry PS 2		<input type="checkbox"/>	✓			
Wet PS3		<input type="checkbox"/>	✓			
Dry PS 3		<input type="checkbox"/>	✓			
Wet PC 1		<input type="checkbox"/>	✓			
Dry PC 1		<input type="checkbox"/>	✓			
Wet PC 2		<input type="checkbox"/>	✓			
Dry PC 3		<input type="checkbox"/>	✓			
Wet PC 3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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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

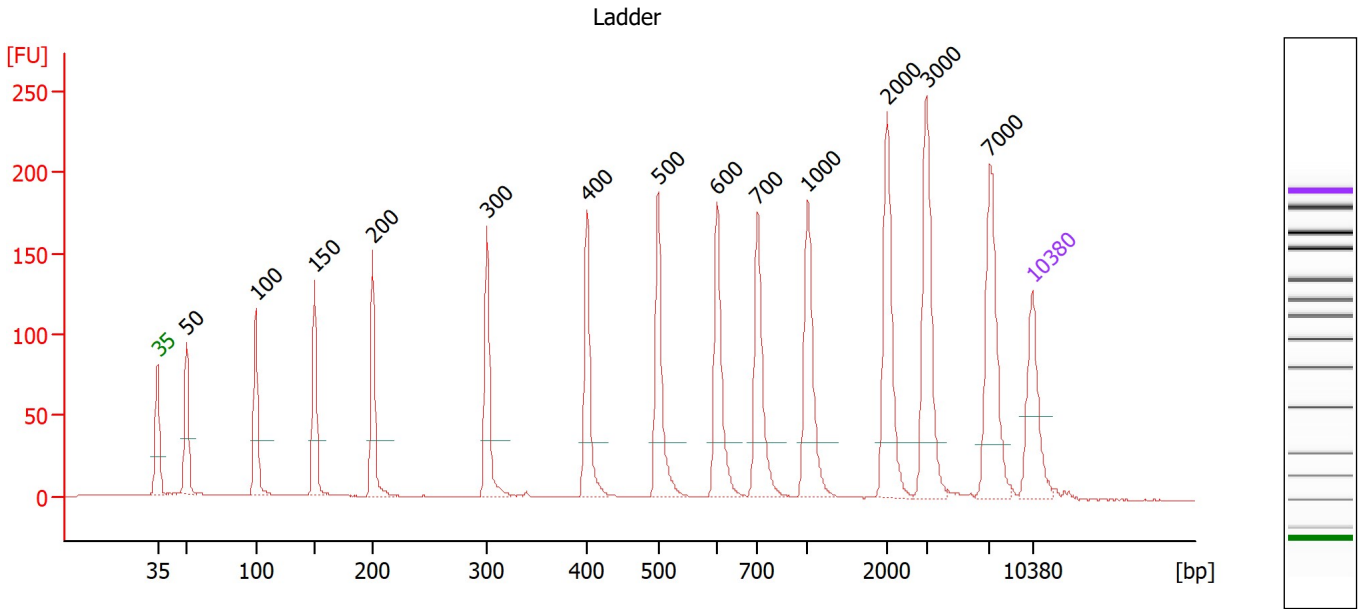
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

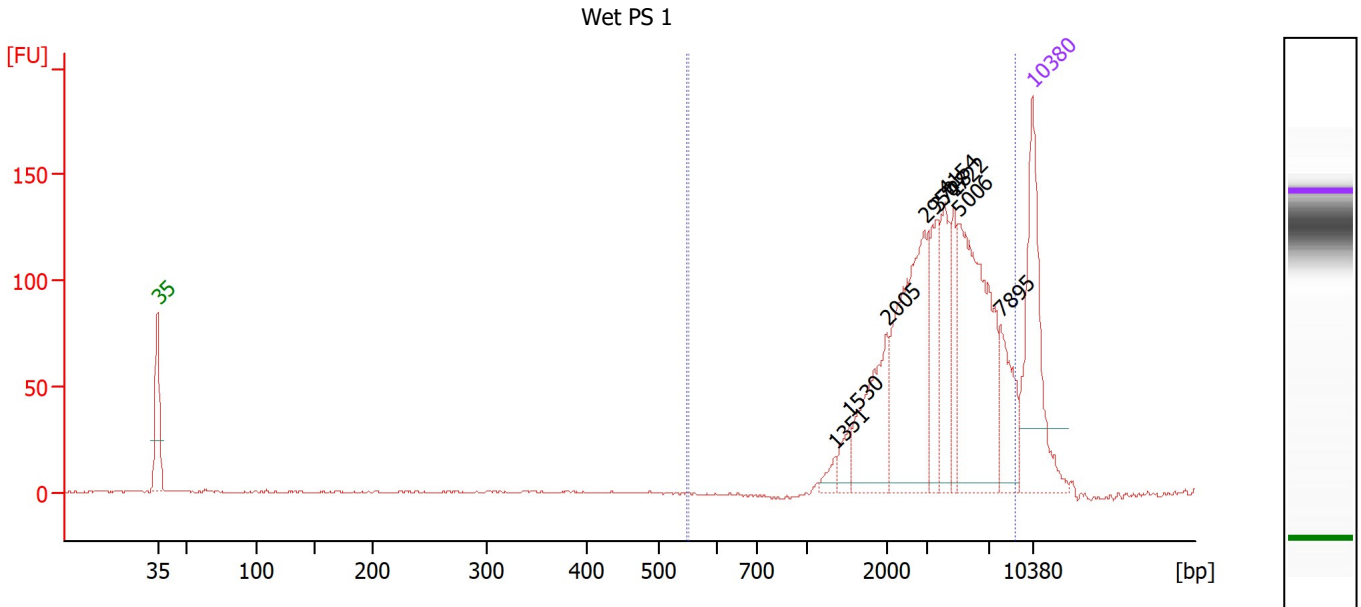
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Wet PS 1

Number of peaks found: 9 Corr. Area 1: 1,233.3
 Noise: 0.2 Corr. Area 2: 1,216.8

Peak table for sample 1 : Wet PS 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,351	5.75	6.4	
3	1,530	12.15	12.0	
4	2,005	55.79	42.2	
5	2,950	111.30	57.2	
6	3,728	37.66	15.3	
7	4,154	39.00	14.2	
8	4,722	26.20	8.4	
9	5,006	122.31	37.0	
10	7,895	31.95	6.1	
11	10,380	75.00	10.9	Upper Marker

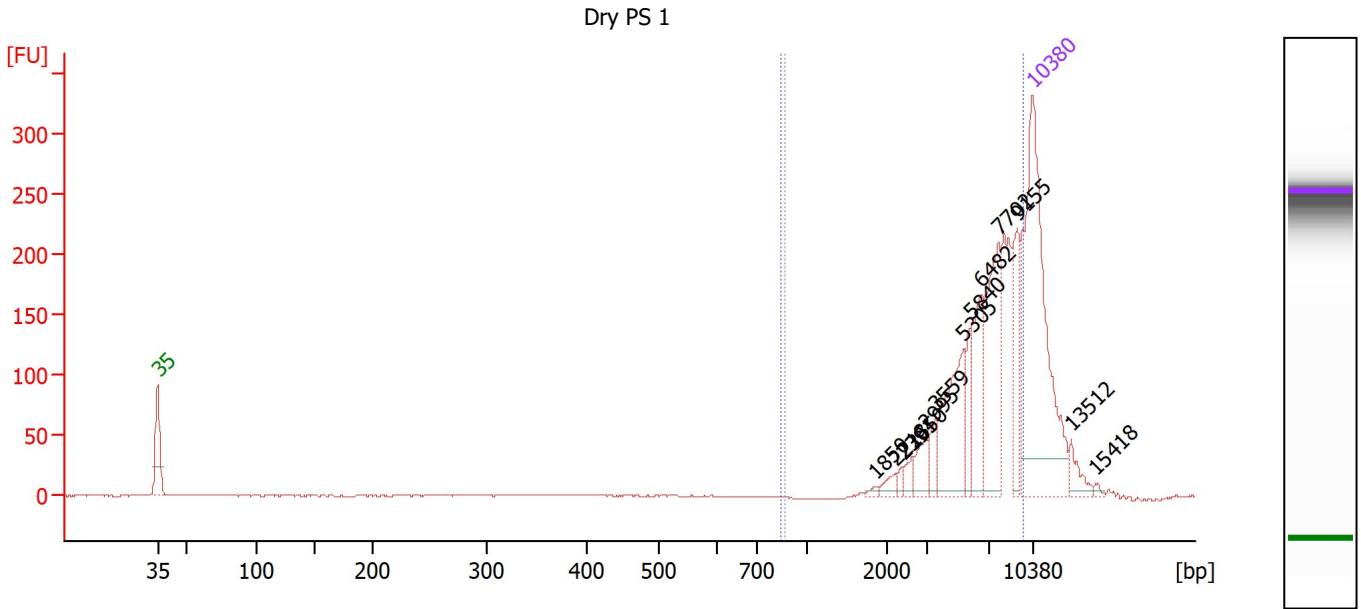
Region table for sample 1 : Wet PS 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
548	9,003	1,216.8	98	4,199	48.4	437.24	201.0	Blue
552	24,567	1,233.3	100	5,279	57.5	442.93	201.8	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : Dry PS 1

Number of peaks found: 13 Corr. Area 1: 1,140.8
 Noise: 0.3 Corr. Area 2: 1,093.1

Peak table for sample 2 : Dry PS 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,850	1.01	0.8	
3	2,218	2.75	1.9	
4	2,391	1.81	1.1	
5	2,650	2.97	1.7	
6	2,995	6.27	3.2	
7	3,559	5.46	2.3	
8	5,305	26.43	7.5	
9	5,840	10.05	2.6	
10	6,482	19.10	4.5	
11	7,702	32.01	6.3	
12	9,155	15.16	2.5	
13	10,380	75.00	10.9	Upper Marker
14	13,512	0.00	0.0	
15	15,418	0.00	0.0	

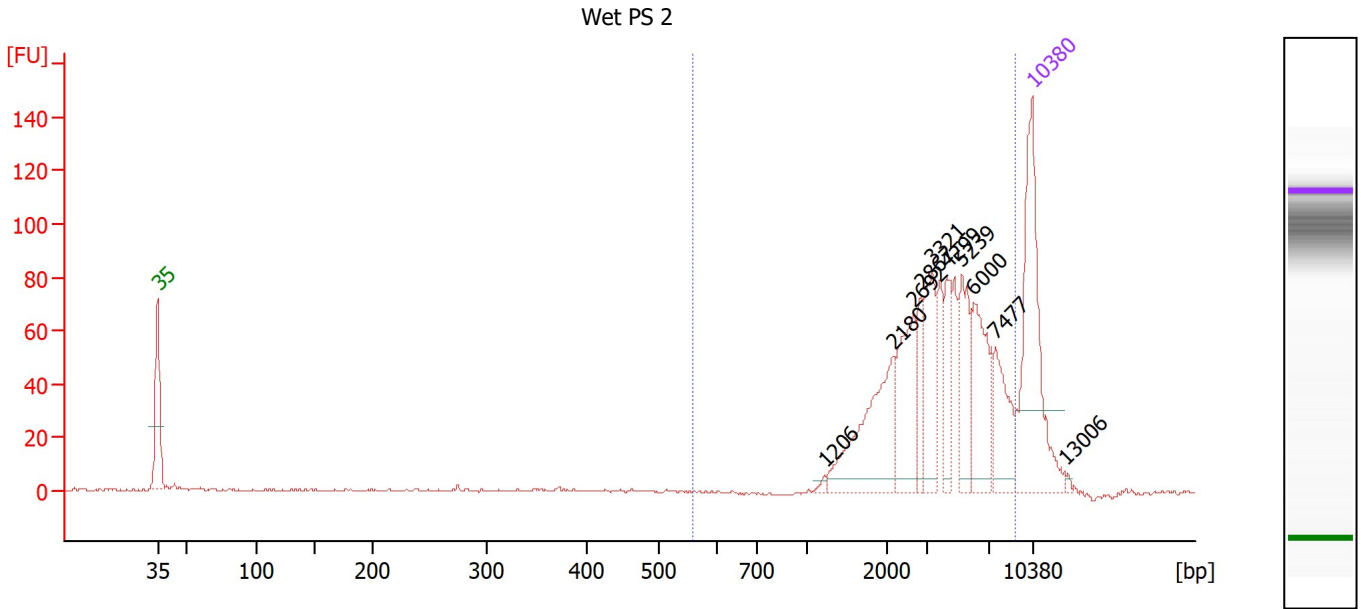
Region table for sample 2 : Dry PS 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
844	9,611	1,093.1	91	6,458	31.8	146.32	39.6	Blue
860	24,106	1,140.8	95	8,136	35.6	152.27	40.4	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : Wet PS 2

Number of peaks found: 10 Corr. Area 1: 742.6
 Noise: 0.4 Corr. Area 2: 734.6

Peak table for sample 3 : Wet PS 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,206	2.05	2.6	
3	2,180	62.81	43.6	
4	2,692	41.07	23.1	
5	2,867	17.47	9.2	
6	3,321	32.11	14.6	
7	4,299	20.68	7.3	
8	5,239	30.67	8.9	
9	6,000	41.92	10.6	
10	7,477	30.92	6.3	
11	10,380	75.00	10.9	Upper Marker
12	13,006	0.00	0.0	

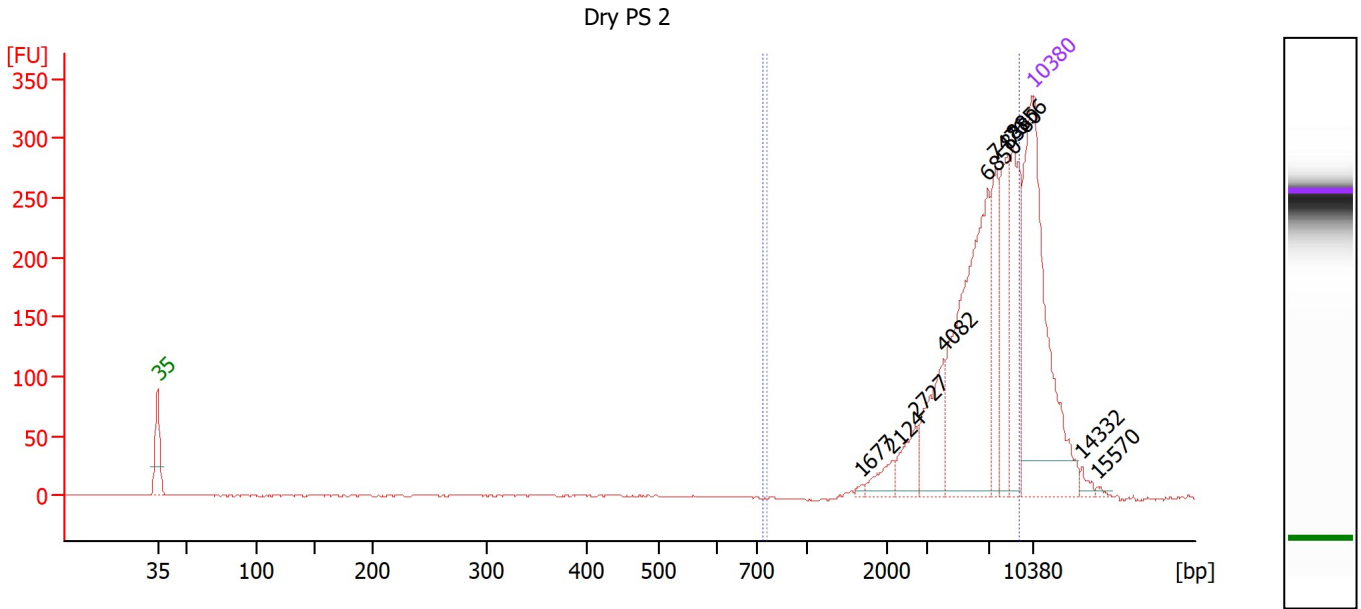
Region table for sample 3 : Wet PS 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
559	26,320	742.6	97	5,560	58.0	314.33	144.7	Blue
559	8,970	734.6	96	4,155	48.3	311.15	144.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : Dry PS 2

Number of peaks found: 10 Corr. Area 1: 1,610.1
 Noise: 0.3 Corr. Area 2: 1,528.1

Peak table for sample 4 : Dry PS 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,677	1.07	1.0	
3	2,124	6.18	4.4	
4	2,727	10.22	5.7	
5	4,082	21.37	7.9	
6	6,850	79.81	17.7	
7	7,476	21.91	4.4	
8	8,380	26.85	4.9	
9	8,856	29.45	5.0	
10	10,380	75.00	10.9	Upper Marker
11	14,332	0.00	0.0	
12	15,570	0.00	0.0	

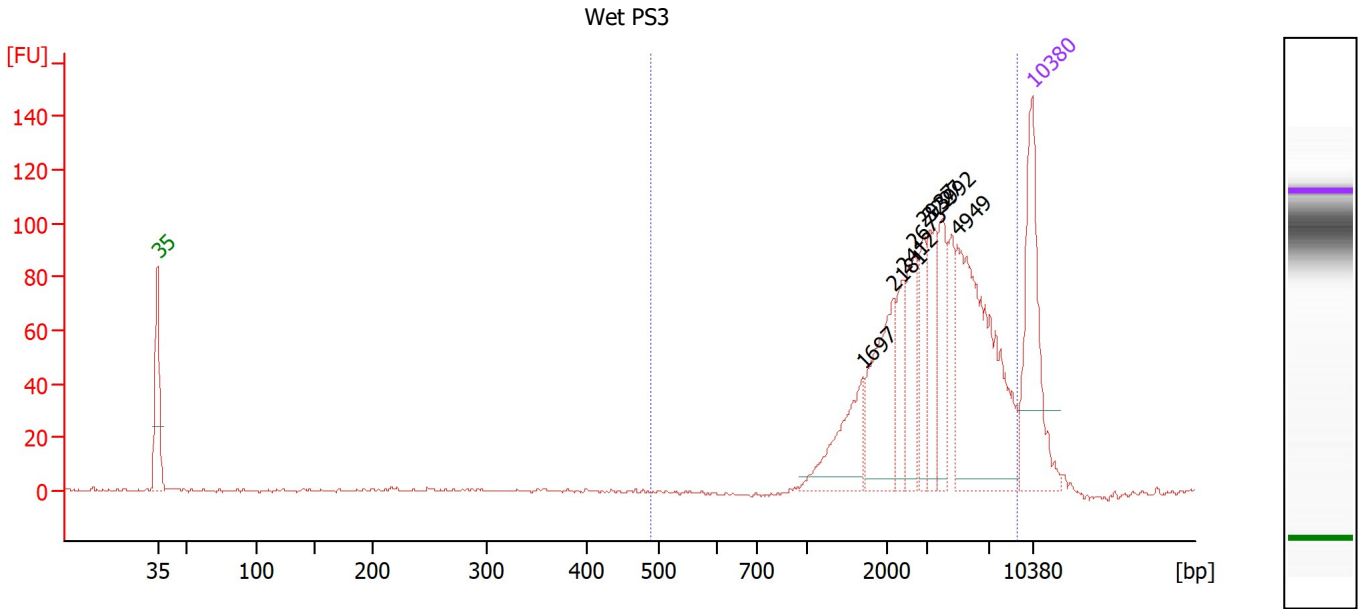
Region table for sample 4 : Dry PS 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
735	9,331	1,528.1	94	6,146	33.5	188.47	54.1	Blue
752	30,045	1,610.1	99	7,744	38.2	198.11	55.5	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : Wet PS3

Number of peaks found: 8 Corr. Area 1: 960.0
 Noise: 0.6 Corr. Area 2: 951.8

Peak table for sample 5 : Wet PS3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,697	47.74	42.6	
3	2,181	65.39	45.4	
4	2,412	27.25	17.1	
5	2,675	37.56	21.3	
6	2,937	28.40	14.7	
7	3,227	35.97	16.9	
8	3,992	38.59	14.6	
9	4,949	142.38	43.6	
10	10,380	75.00	10.9	Upper Marker

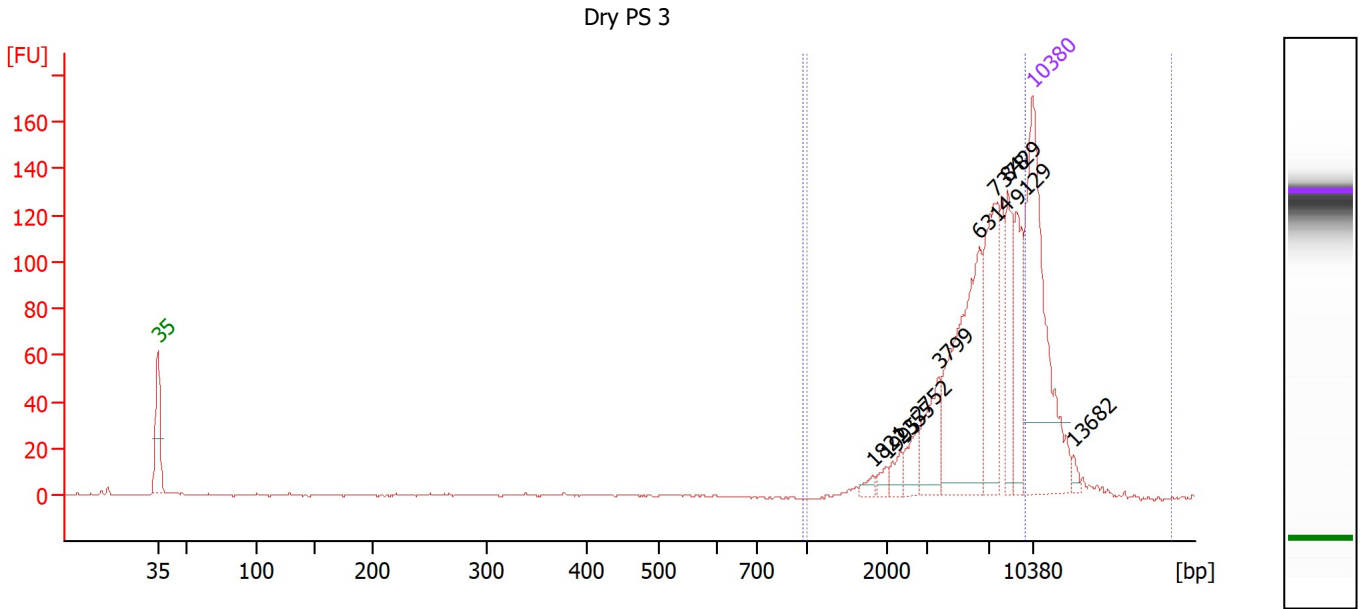
Region table for sample 5 : Wet PS3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
490	26,125	960.0	99	5,029	61.7	453.32	226.9	Blue
490	9,177	951.8	98	3,937	51.7	449.64	226.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : Dry PS 3

Number of peaks found: 10 Corr. Area 1: 720.2
 Noise: 0.3 Corr. Area 2: 707.0

Peak table for sample 6 : Dry PS 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,821	2.56	2.1	
3	1,995	3.03	2.3	
4	2,355	5.30	3.4	
5	2,752	7.88	4.3	
6	3,799	19.36	7.7	
7	6,314	68.27	16.4	
8	7,378	40.33	8.3	
9	8,429	21.84	3.9	
10	9,129	20.46	3.4	
11	10,380	75.00	10.9	Upper Marker
12	13,682	0.00	0.0	

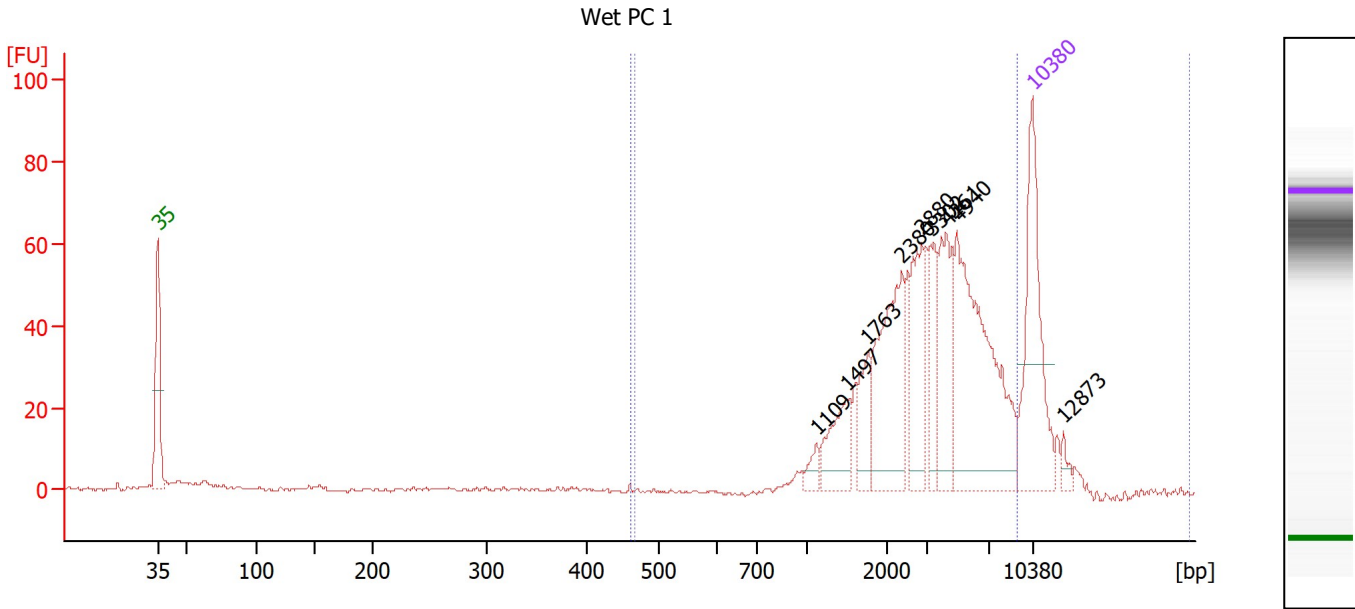
Region table for sample 6 : Dry PS 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
977	9,788	707.0	97	6,334	33.9	200.77	56.5	Blue
995	21,474	720.2	99	7,697	37.5	204.28	57.0	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : Wet PC 1

Number of peaks found: 9 Corr. Area 1: 632.2
 Noise: 0.5 Corr. Area 2: 615.8

Peak table for sample 7 : Wet PC 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,109	8.52	11.6	
3	1,497	31.70	32.1	
4	1,763	23.19	19.9	
5	2,380	79.03	50.3	
6	2,880	48.40	25.5	
7	3,302	25.93	11.9	
8	4,261	46.16	16.4	
9	4,940	130.33	40.0	
10	10,380	75.00	10.9	Upper Marker
11	12,873	0.00	0.0	

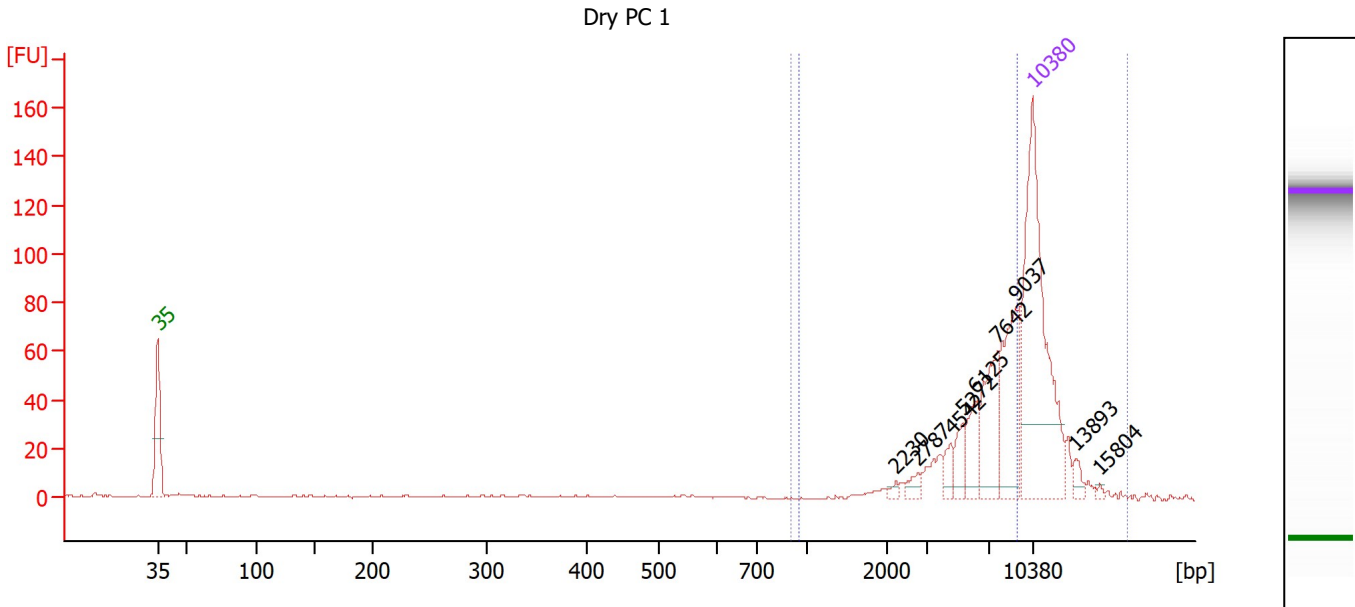
Region table for sample 7 : Wet PC 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
463	9,161	615.8	94	3,760	53.9	432.43	234.0	Blue
467	22,982	632.2	96	5,071	65.7	443.13	235.4	Dark Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
 Modified: 2/4/2020 10:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Dry PC 1

Number of peaks found: 9 Corr. Area 1: 327.4
 Noise: 0.2 Corr. Area 2: 276.9

Peak table for sample 8 : Dry PC 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,230	1.44	1.0	
3	2,787	3.27	1.8	
4	4,542	5.05	1.7	
5	5,272	6.34	1.8	
6	6,125	11.48	2.8	
7	7,642	21.83	4.3	
8	9,037	31.36	5.3	
9	10,380	75.00	10.9	Upper Marker
10	13,893	0.00	0.0	
11	15,804	0.00	0.0	

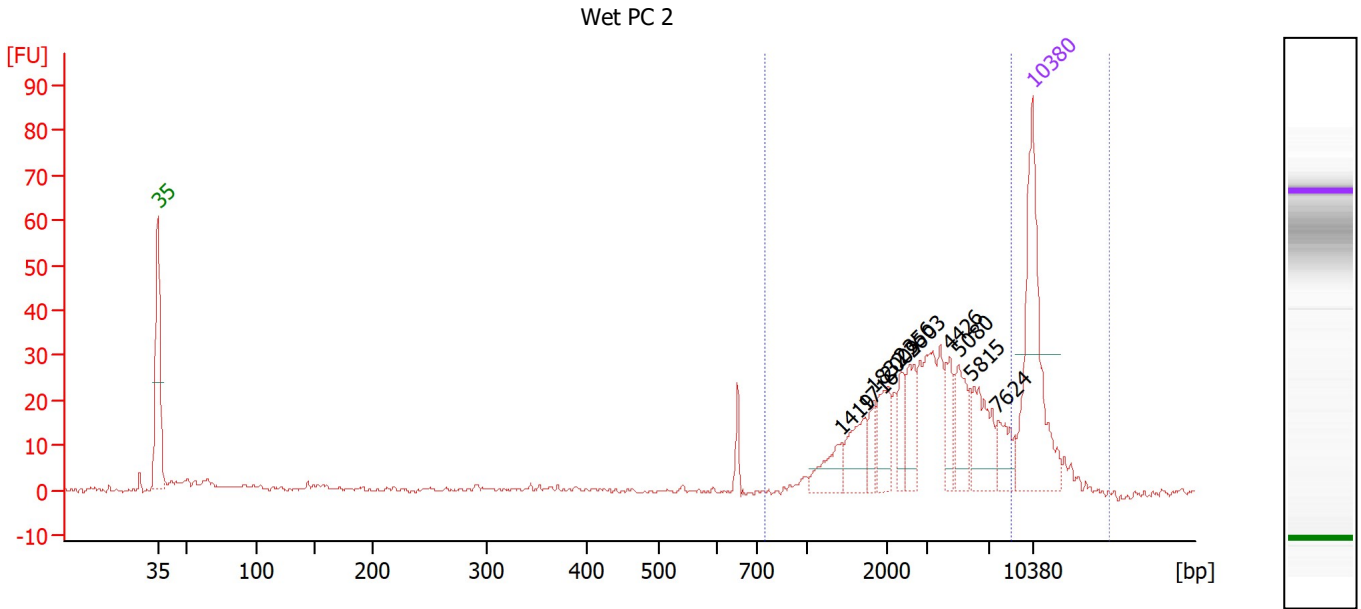
Region table for sample 8 : Dry PC 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
905	17,964	327.4	93	8,869	32.0	97.80	24.6	Blue
951	9,137	276.9	79	6,391	30.7	83.45	22.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Wet PC 2

Number of peaks found: 10 Corr. Area 1: 291.8
 Noise: 0.4 Corr. Area 2: 283.0

Peak table for sample 9 : Wet PC 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,419	15.46	16.5	
3	1,716	20.36	18.0	
4	1,832	10.11	8.4	
5	2,009	19.30	14.6	
6	2,356	12.42	8.0	
7	2,603	16.60	9.7	
8	4,426	14.55	5.0	
9	5,080	21.63	6.5	
10	5,815	28.81	7.5	
11	7,624	14.17	2.8	
12	10,380	75.00	10.9	Upper Marker

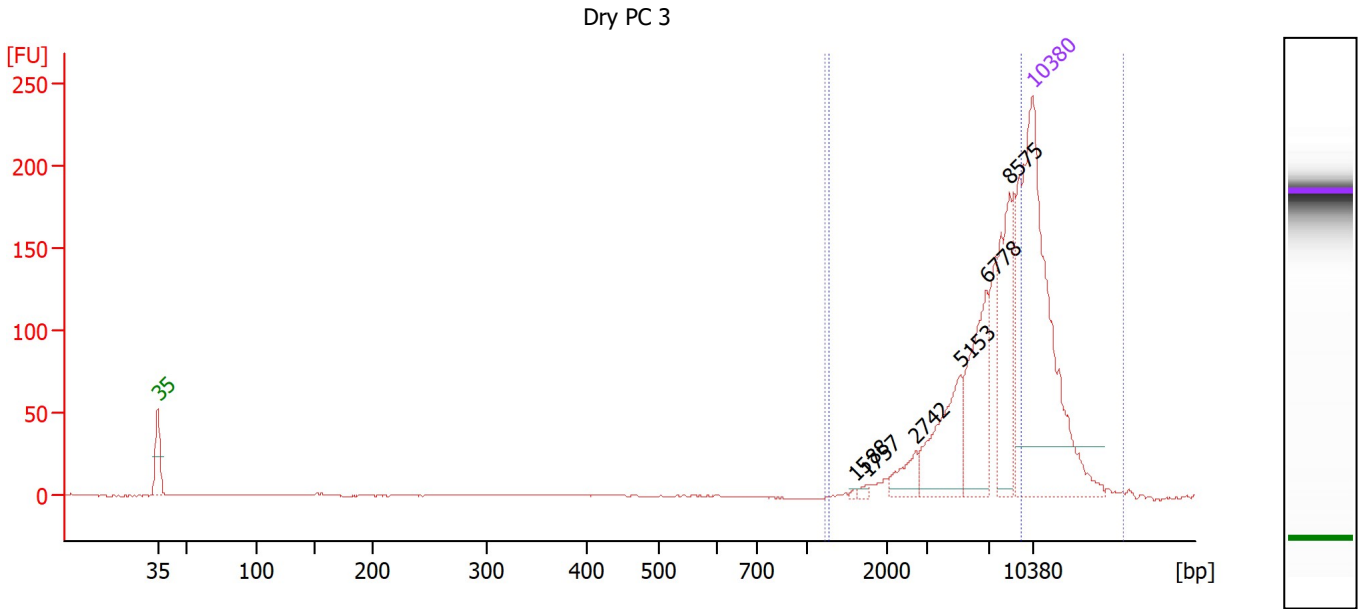
Region table for sample 9 : Wet PC 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
744	16,592	291.8	95	5,697	62.9	222.89	118.1	Blue
744	8,626	283.0	92	3,665	52.7	216.49	117.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : Dry PC 3

Number of peaks found: 6 Corr. Area 1: 669.9
 Noise: 0.2 Corr. Area 2: 668.1

Peak table for sample 10 : Dry PC 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,588	0.39	0.4	
3	1,757	0.82	0.7	
4	2,742	5.74	3.2	
5	5,153	20.79	6.1	
6	6,778	24.52	5.5	
7	8,575	23.81	4.2	
8	10,380	75.00	10.9	Upper Marker

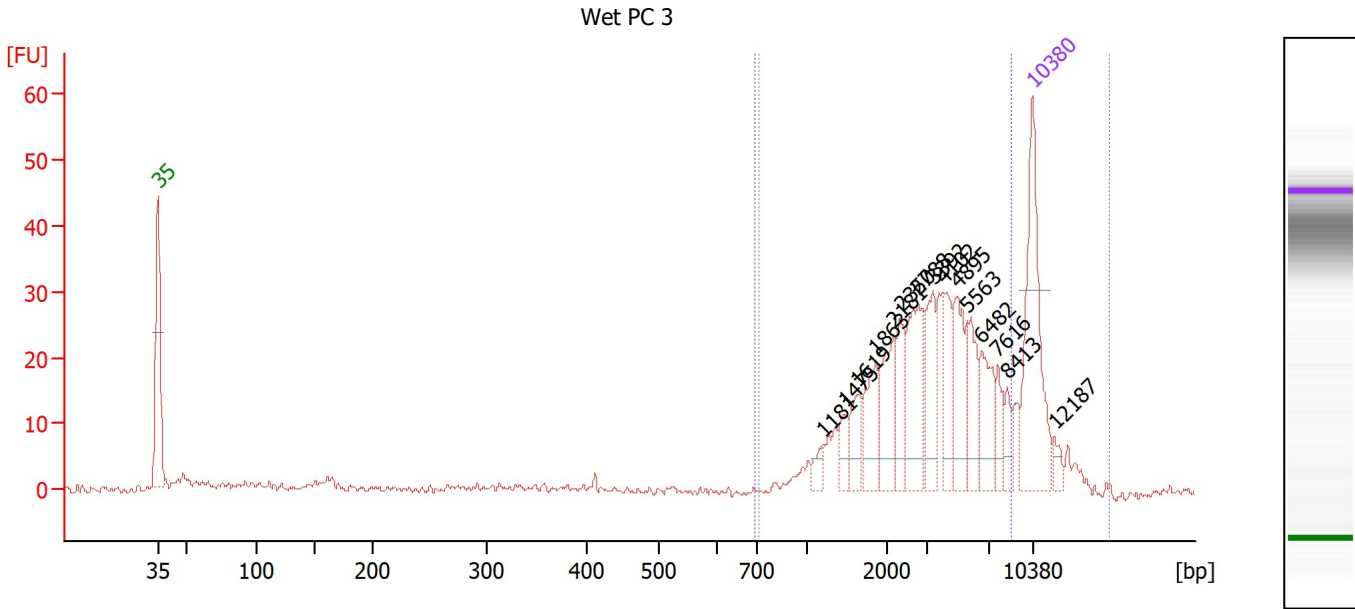
Region table for sample 10 : Dry PC 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,225	17,628	669.9	100	8,469	34.4	86.62	24.1	Blue
1,275	9,498	668.1	99	6,545	31.7	86.40	24.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : Wet PC 3

Number of peaks found: 15 Corr. Area 1: 306.0
 Noise: 0.6 Corr. Area 2: 289.0

Peak table for sample 11 : Wet PC 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,181	7.54	9.7	
3	1,475	11.32	11.6	
4	1,619	18.09	16.9	
5	1,863	26.31	21.4	
6	2,181	30.10	20.9	
7	2,350	21.56	13.9	
8	2,788	42.68	23.2	
9	3,392	27.90	12.5	
10	4,102	26.72	9.9	
11	4,895	32.94	10.2	
12	5,563	27.10	7.4	
13	6,482	25.58	6.0	
14	7,616	12.51	2.5	
15	8,413	10.31	1.9	
16	10,380	75.00	10.9	Upper Marker
17	12,187	0.00	0.0	

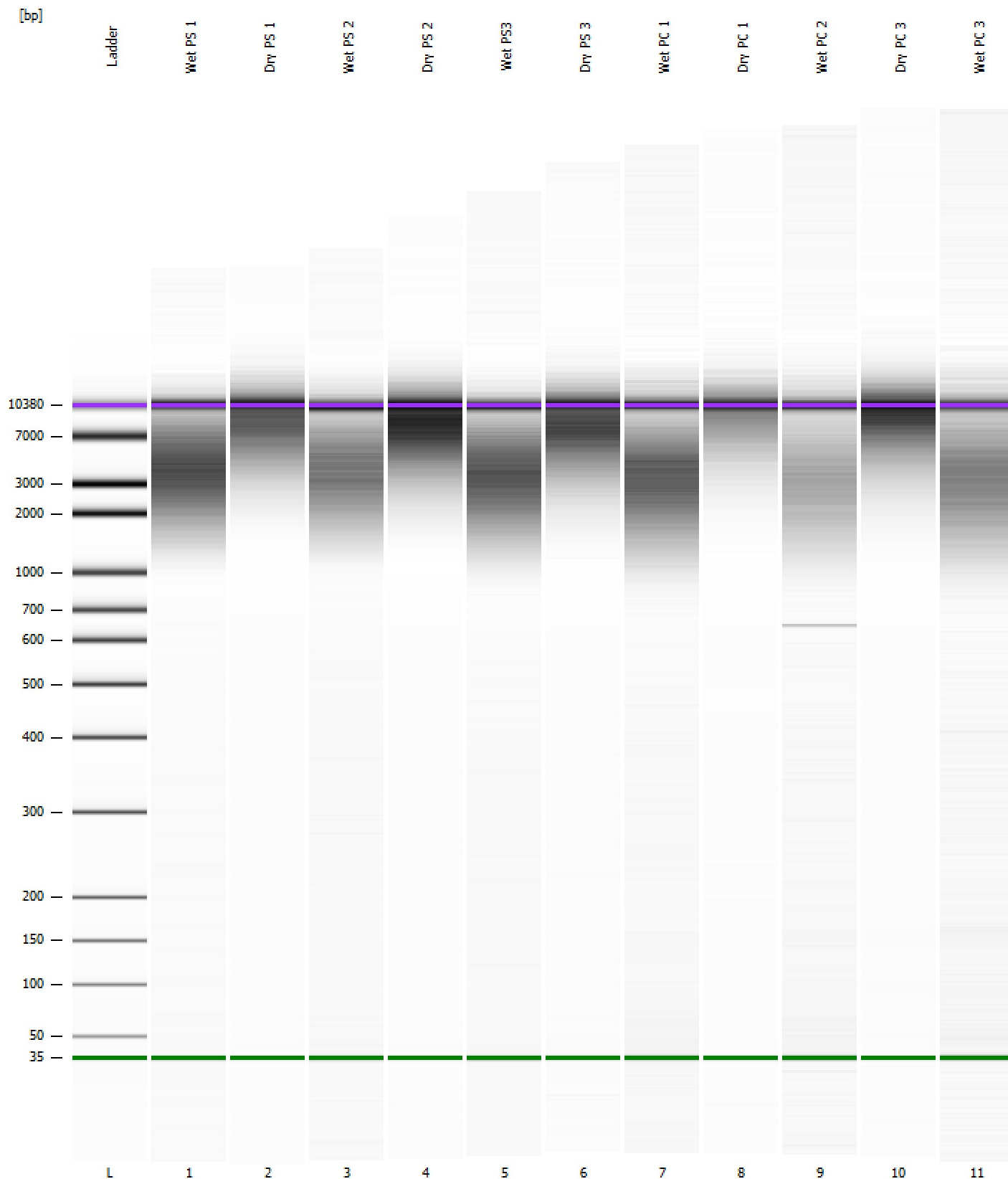
Region table for sample 11 : Wet PC 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
696	8,657	289.0	90	3,717	53.4	358.32	196.0	Blue
714	16,487	306.0	96	5,311	64.8	378.17	198.8	Dark Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
Modified: 2/4/2020 10:54:49 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-04_001.xad

Created: 2/4/2020 9:27:24 AM
 Modified: 2/4/2020 10:54:49 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		2/4/2020 10:08:43 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-02-04\Bioanalyze r1_High Sensitivity DNA Assay_2020-02-04_001.xad)		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/4/2020 9:27:30 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB