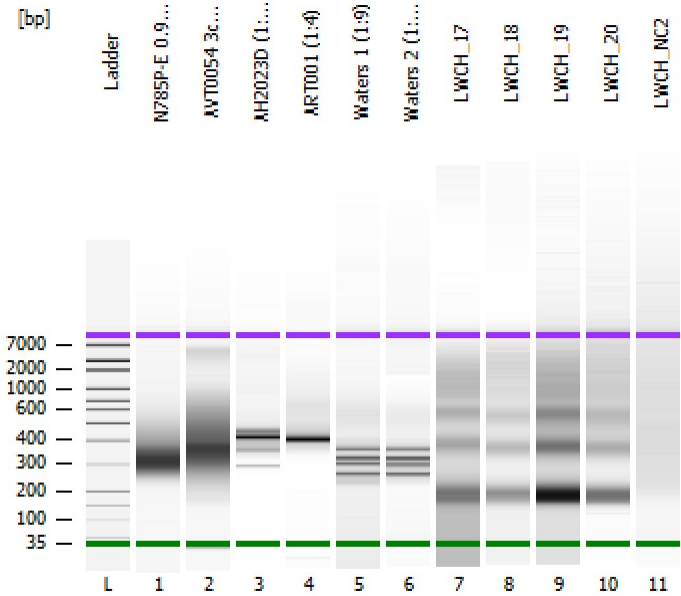


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
Modified: 9/7/2023 1:41:47 PM

Electrophoresis File Run Summary



Instrument Information:

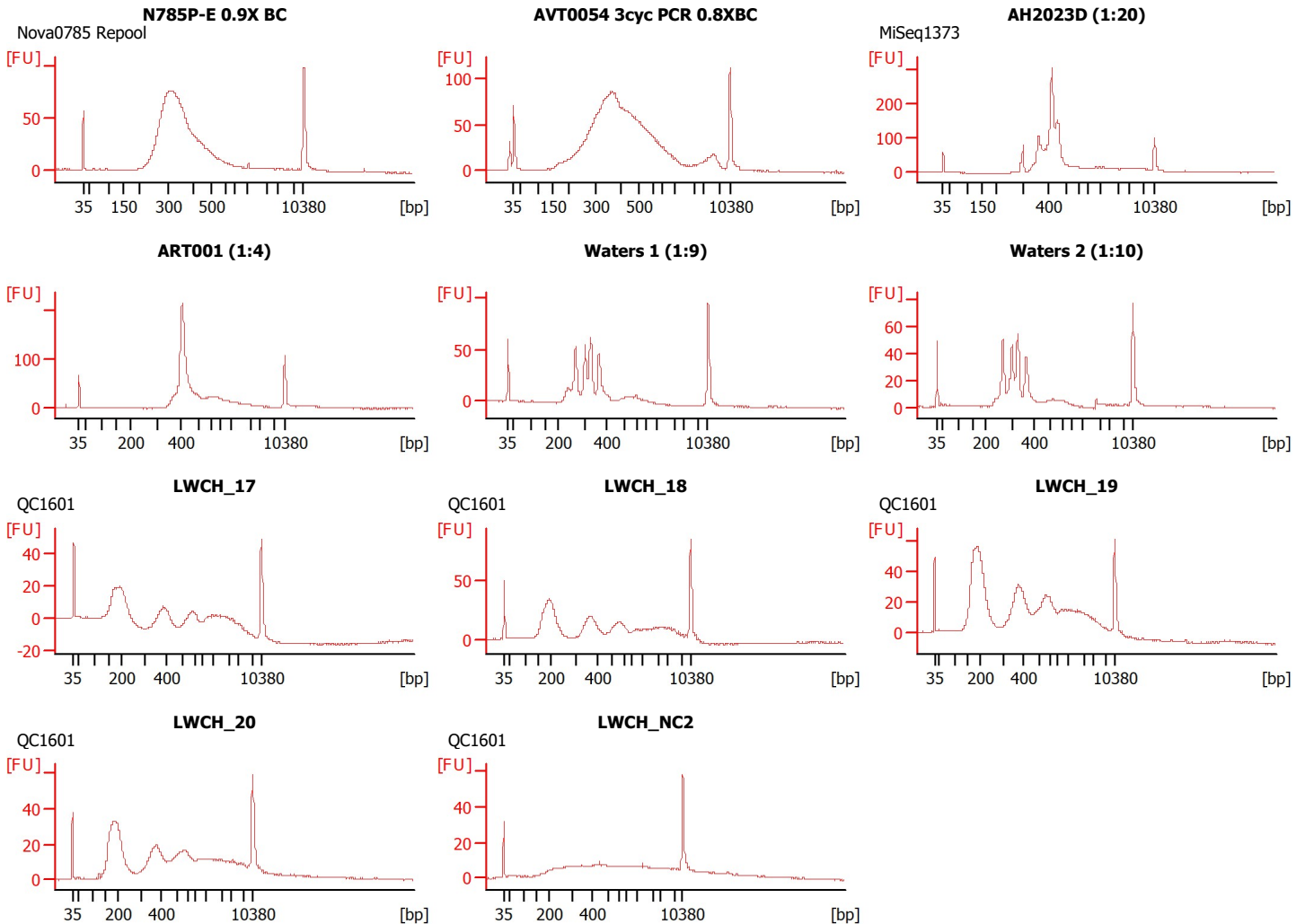
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N785P-E 0.9X BC	Nova0785 Repool	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
AVT0054 3cyc PCR 0.8XBC		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
AH2023D (1:20)	MiSeq1373	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
ART001 (1:4)		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Waters 1 (1:9)		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Waters 2 (1:10)		<input type="checkbox"/>	<input checked="" type="checkbox"/>			
LWCH_17	QC1601	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
LWCH_18	QC1601	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
LWCH_19	QC1601	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
LWCH_20	QC1601	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
LWCH_NC2	QC1601	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Ladder		<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 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

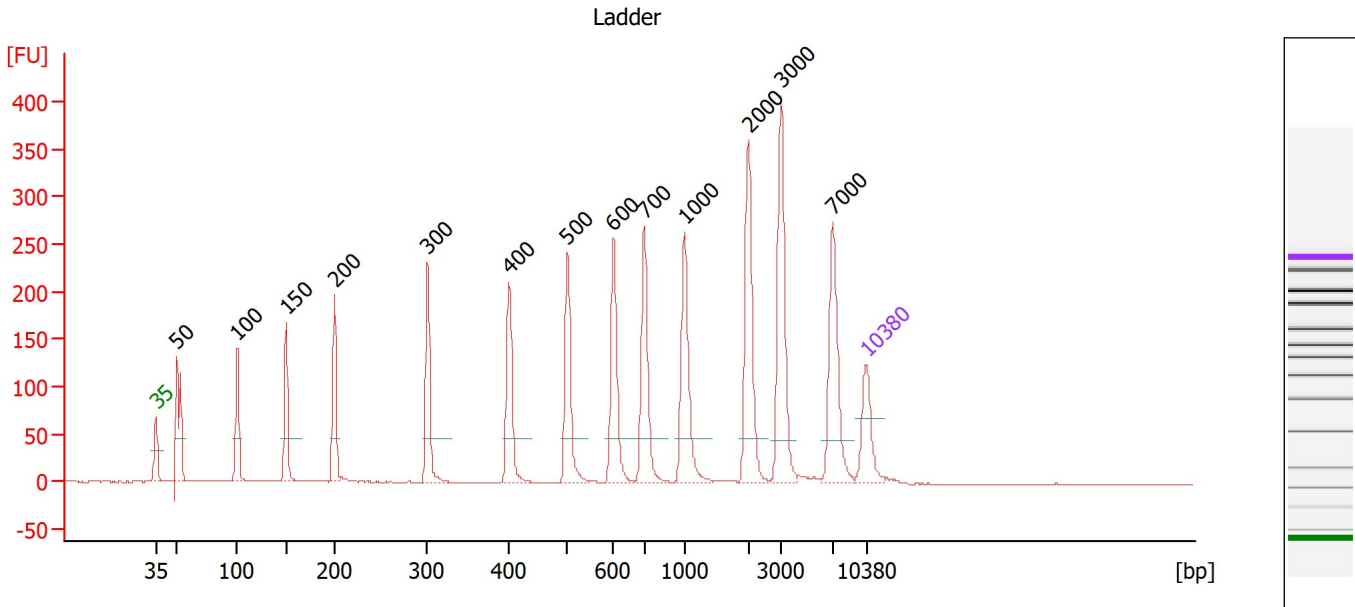
Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

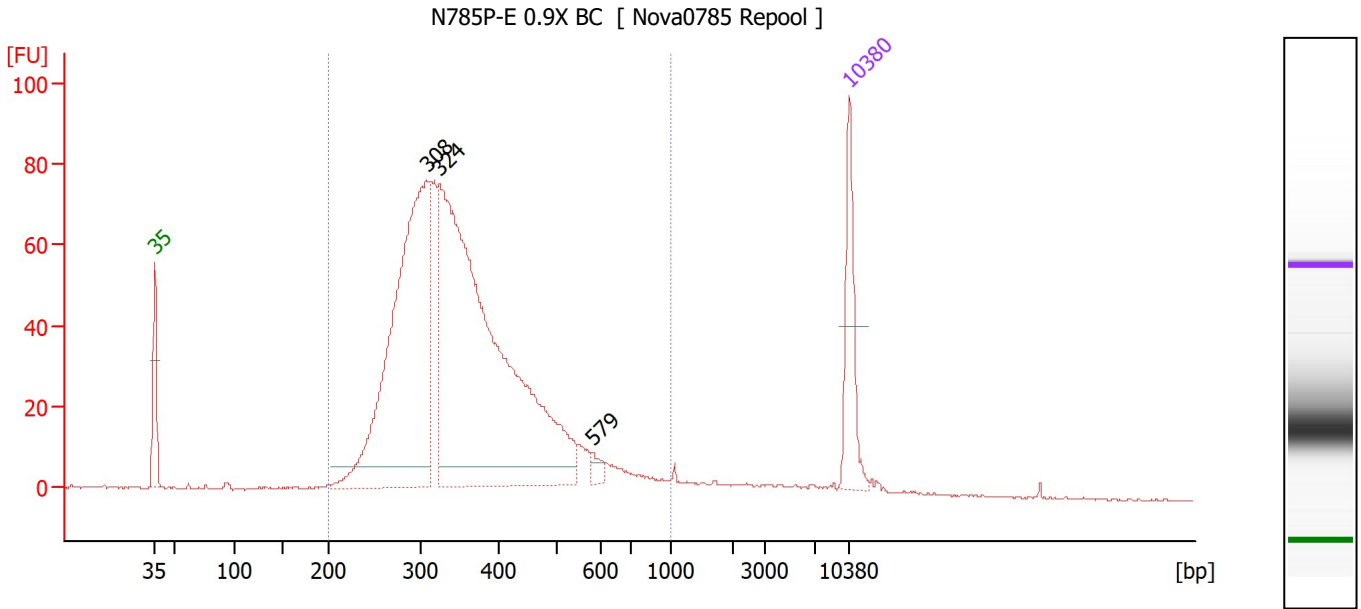
Peak table for Ladder

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: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : N785P-E 0.9X BC

Number of peaks found: 3 Corr. Area 1: 1,318.9
 Noise: 0.3

Peak table for sample 1 : N785P-E 0.9X BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	308	648.88	3,195.6	
3	324	969.34	4,537.1	
4	579	11.17	29.2	
5	10,380	75.00	10.9	Upper Marker

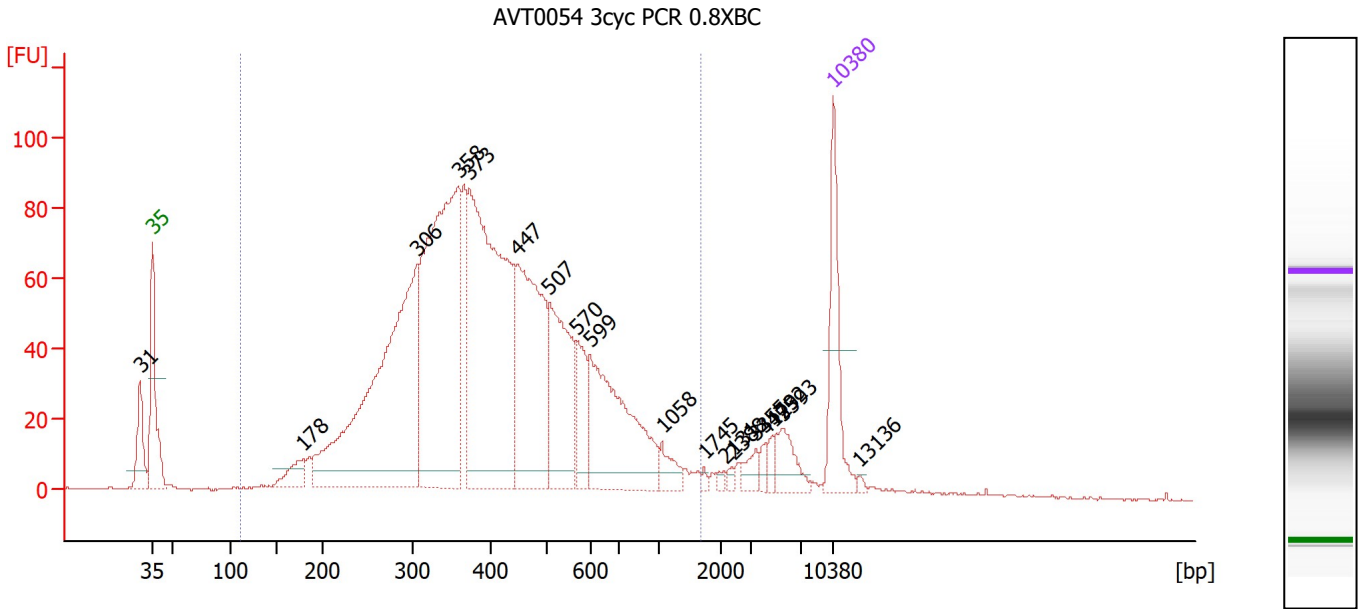
Region table for sample 1 : N785P-E 0.9X BC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,318.9	95	366	28.6	1,790.57	8,038.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AVT0054 3cyc PCR 0.8XBC

Number of peaks found: 18 Corr. Area 1: 2,240.2
 Noise: 0.2

Peak table for sample 2 : AVT0054 3cyc PCR 0.8XBC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	178	33.60	285.6	
4	306	535.27	2,646.9	
5	358	478.91	2,025.5	
6	373	487.86	1,980.3	
7	447	261.00	884.2	
8	507	160.97	481.4	
9	570	53.86	143.2	
10	599	192.47	487.0	
11	1,058	20.16	28.9	
12	1,745	3.18	2.8	
13	2,131	3.80	2.7	
14	2,388	4.02	2.6	
15	3,355	13.35	6.0	
16	4,129	6.61	2.4	
17	4,732	10.96	3.5	
18	5,593	29.48	8.0	
19	10,380	75.00	10.9	Upper Marker
20	13,136	0.00	0.0	

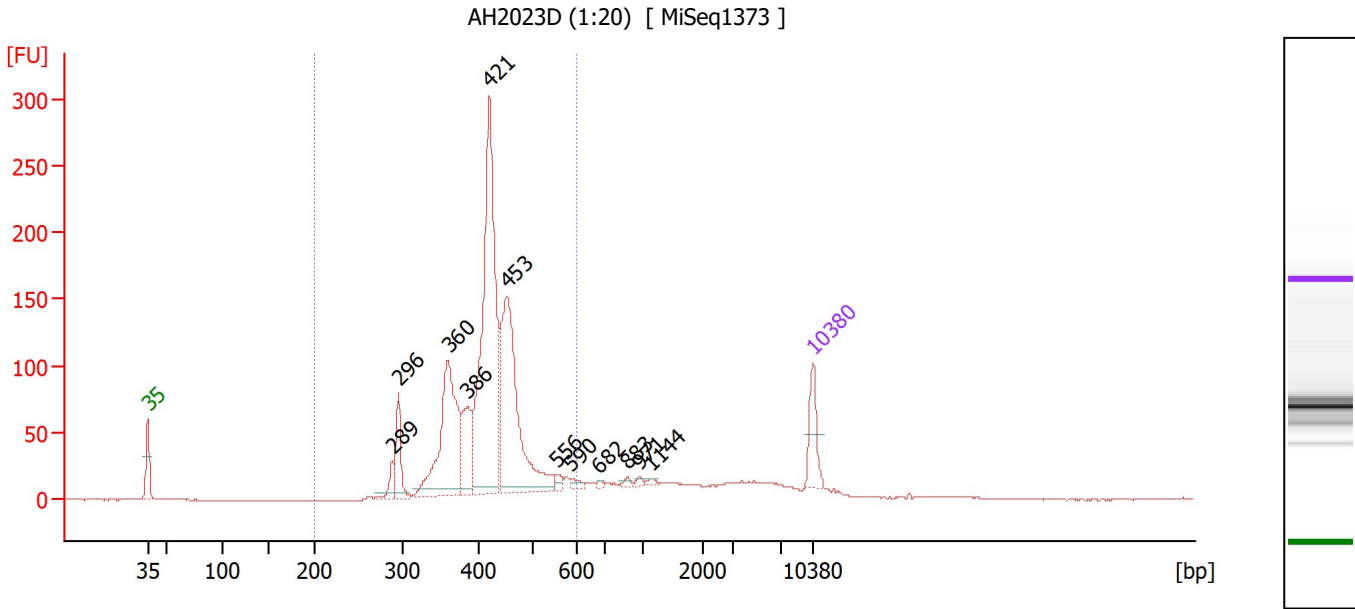
Region table for sample 2 : AVT0054 3cyc PCR 0.8XBC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
111	1,699	2,240.2	92	436	45.1	2,468.68	10,503.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AH2023D (1:20)

Number of peaks found: 12 Corr. Area 1: 1,527.4
 Noise: 0.2

Peak table for sample 3 : AH2023D (1:20)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	40.00	209.5	
3	296	110.54	565.9	
4	360	434.91	1,828.6	
5	386	135.15	530.2	
6	421	820.15	2,954.5	
7	453	537.40	1,798.9	
8	556	14.90	40.6	
9	590	13.92	35.8	
10	682	6.29	14.0	
11	883	8.41	14.4	
12	971	6.98	10.9	
13	1,144	6.72	8.9	
14	10,380	75.00	10.9	Upper Marker

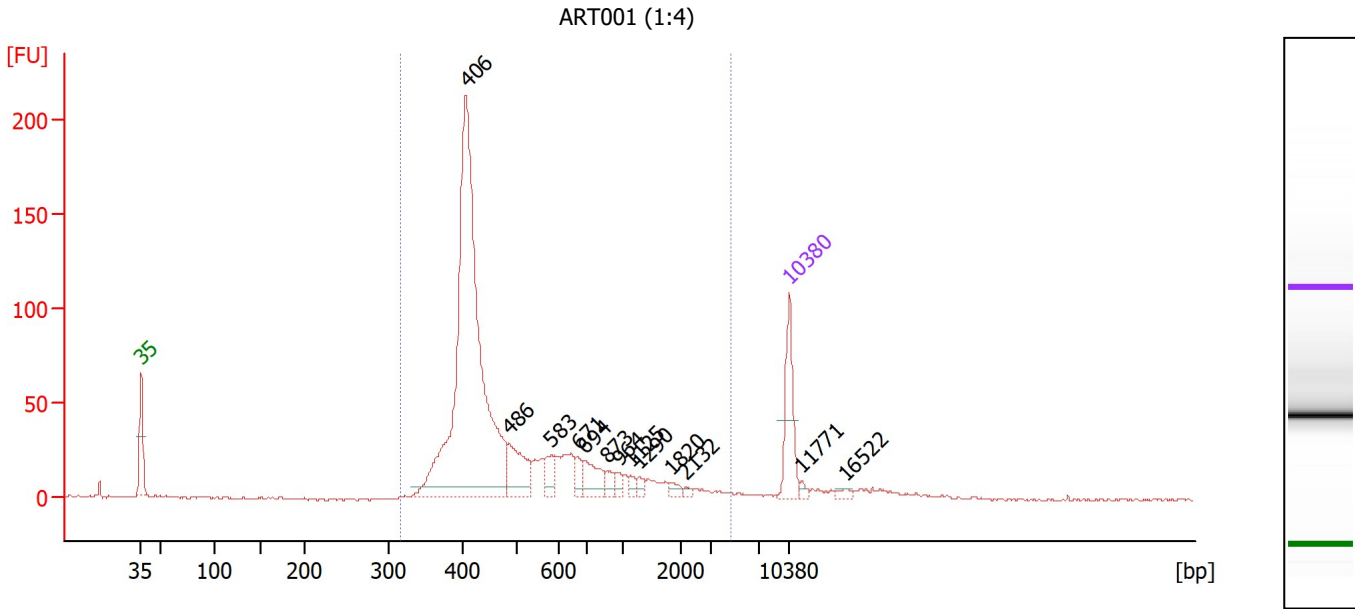
Region table for sample 3 : AH2023D (1:20)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	600	1,527.4	83	417	13.8	2,256.93	8,436.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ART001 (1:4)

Number of peaks found: 13 Corr. Area 1: 1,095.5
 Noise: 0.7

Peak table for sample 4 : ART001 (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	406	893.82	3,339.0	
3	486	85.28	265.7	
4	583	32.22	83.7	
5	671	19.07	43.1	
6	694	45.06	98.3	
7	873	15.52	26.9	
8	964	10.83	17.0	
9	1,125	8.87	11.9	
10	1,290	9.17	10.8	
11	1,820	9.72	8.1	
12	2,132	4.27	3.0	
13	10,380	75.00	10.9	Upper Marker
14	11,771	0.00	0.0	
15	16,522	0.00	0.0	

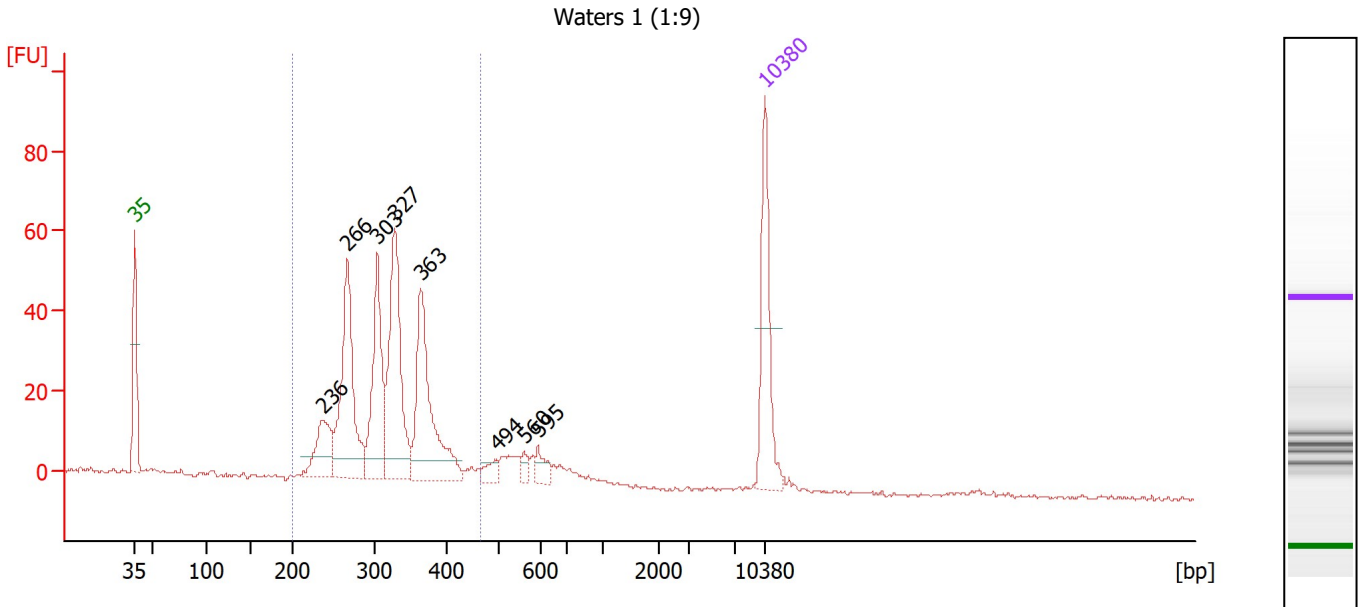
Region table for sample 4 : ART001 (1:4)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
317	4,707	1,095.5	95	595	76.8	1,282.15	4,143.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Waters 1 (1:9)

Number of peaks found: 8 Corr. Area 1: 507.1
 Noise: 0.4

Peak table for sample 5 : Waters 1 (1:9)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	62.93	404.4	
3	266	164.20	934.3	
4	303	120.67	603.5	
5	327	162.19	750.7	
6	363	148.03	618.3	
7	494	11.66	35.8	
8	560	8.30	22.4	
9	595	14.21	36.2	
10	10,380	75.00	10.9	Upper Marker

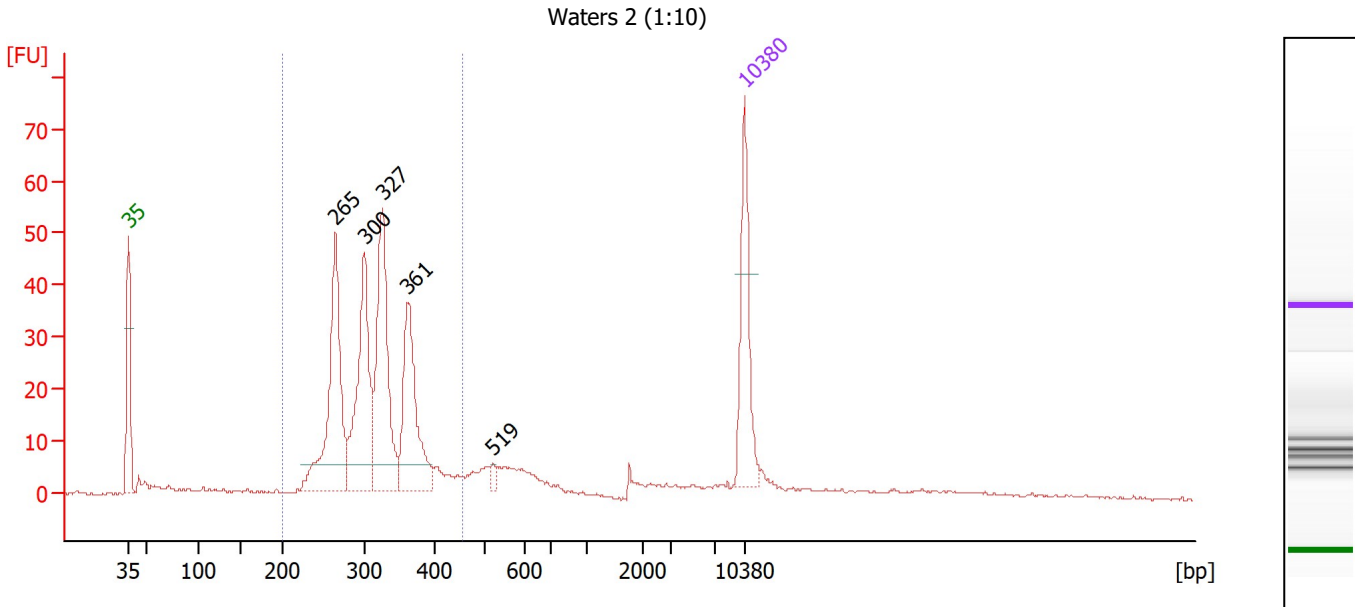
Region table for sample 5 : Waters 1 (1:9)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	465	507.1	85	316	15.5	668.33	3,306.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Waters 2 (1:10)

Number of peaks found: 5 Corr. Area 1: 426.3
 Noise: 0.2

Peak table for sample 6 : Waters 2 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	201.44	1,153.5	
3	300	169.77	856.2	
4	327	180.76	838.0	
5	361	134.20	562.5	
6	519	6.82	19.9	
7	10,380	75.00	10.9	Upper Marker

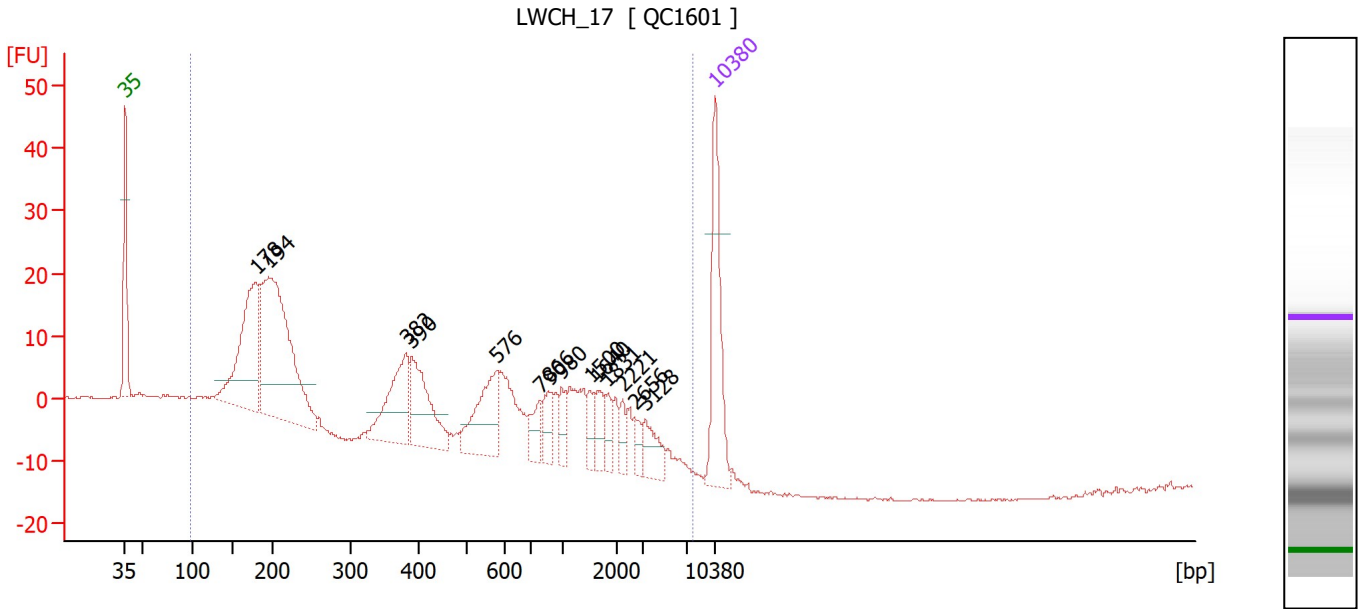
Region table for sample 6 : Waters 2 (1:10)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	454	426.3	75	316	14.5	737.92	3,628.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : LWCH_17

Number of peaks found: 14 Corr. Area 1: 420.6
 Noise: 0.2

Peak table for sample 7 : LWCH_17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	178	173.89	1,478.7	
3	194	296.34	2,313.5	
4	382	81.98	325.4	
5	390	75.75	294.0	
6	576	65.16	171.3	
7	790	20.16	38.7	
8	866	21.20	37.1	
9	980	14.94	23.1	
10	1,500	12.95	13.1	
11	1,640	18.67	17.2	
12	1,831	12.90	10.7	
13	2,221	10.55	7.2	
14	2,656	9.66	5.5	
15	3,128	21.89	10.6	
16	10,380	75.00	10.9	Upper Marker

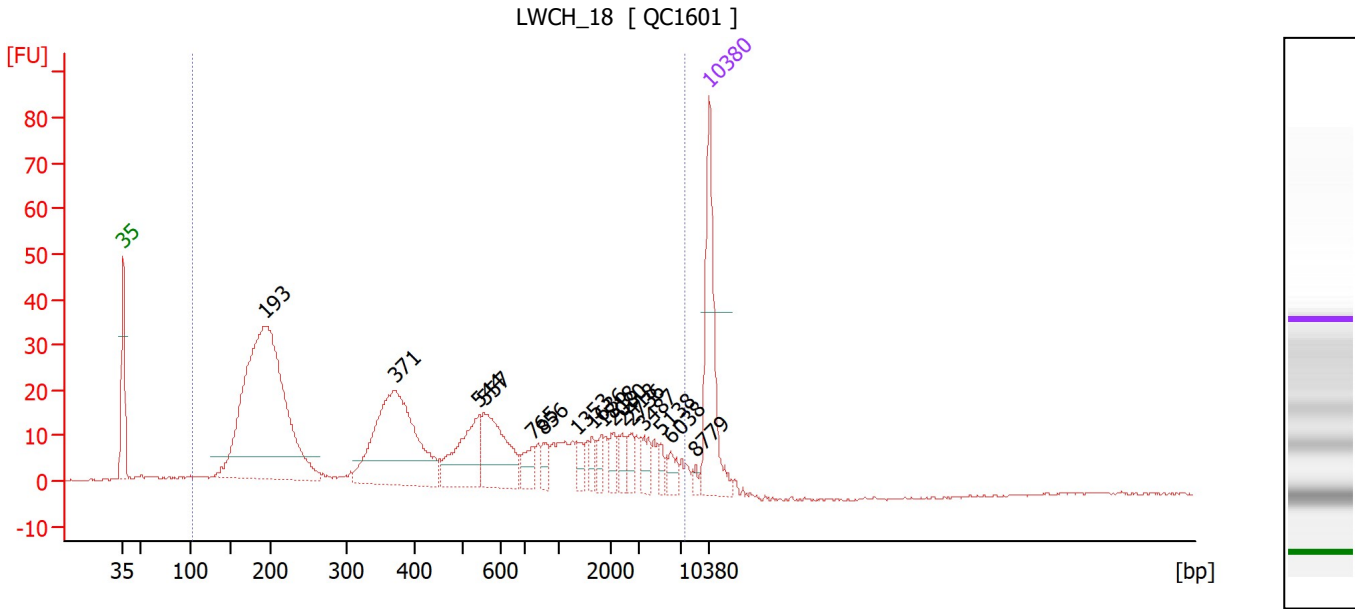
Region table for sample 7 : LWCH_17

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
99	7,835	420.6	94	643	100.0	785.91	4,894.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : LWCH_18

Number of peaks found: 16 Corr. Area 1: 778.5
 Noise: 0.2

Peak table for sample 8 : LWCH_18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	193	452.72	3,550.3	
3	371	182.86	747.1	
4	544	60.49	168.3	
5	557	67.80	184.4	
6	765	15.03	29.8	
7	856	10.28	18.2	
8	1,353	8.75	9.8	
9	1,636	8.35	7.7	
10	1,818	8.32	6.9	
11	2,080	10.55	7.7	
12	2,418	9.14	5.7	
13	2,736	10.44	5.8	
14	3,487	11.43	5.0	
15	5,138	7.08	2.1	
16	6,038	9.02	2.3	
17	8,779	3.57	0.6	
18	10,380	75.00	10.9	Upper Marker

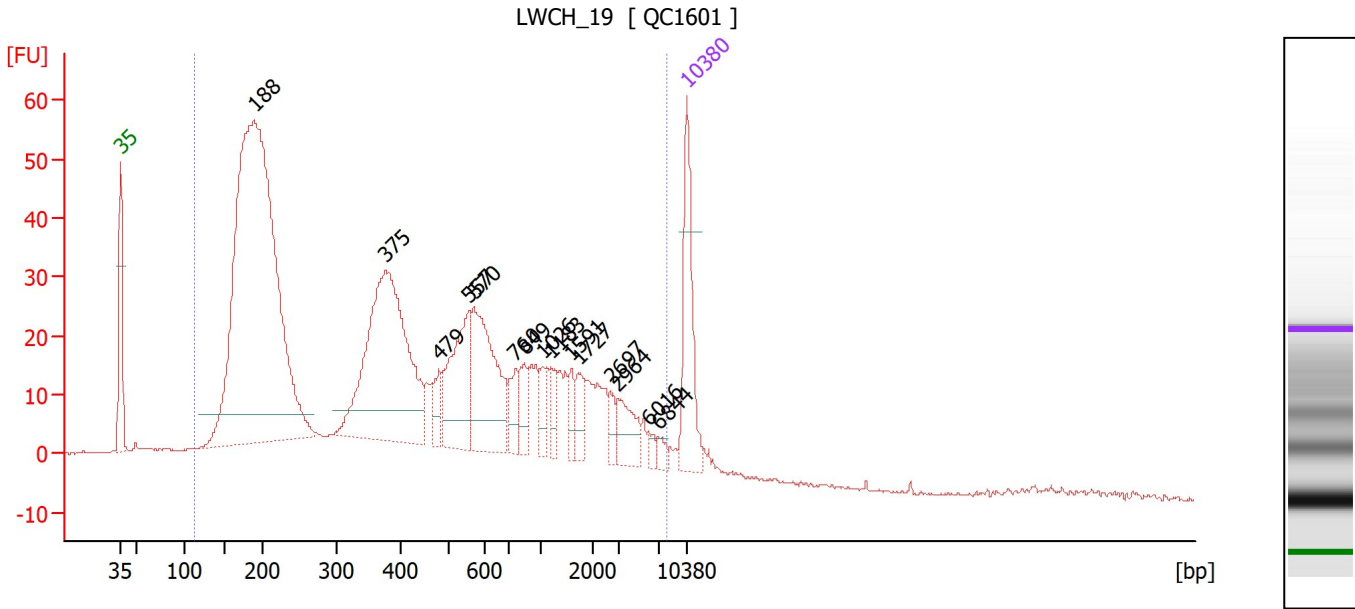
Region table for sample 8 : LWCH_18

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
104	7,580	778.5	97	951	100.0	981.47	5,253.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : LWCH_19

Number of peaks found: 15 Corr. Area 1: 1,343.3
 Noise: 0.2

Peak table for sample 9 : LWCH_19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	188	1,000.36	8,047.3	
3	375	335.54	1,355.5	
4	479	24.29	76.8	
5	557	101.36	275.8	
6	570	129.52	344.3	
7	760	23.56	47.0	
8	849	24.82	44.3	
9	1,026	19.19	28.3	
10	1,183	16.08	20.6	
11	1,591	14.38	13.7	
12	1,727	20.27	17.8	
13	2,697	10.46	5.9	
14	2,964	29.60	15.1	
15	6,016	5.28	1.3	
16	6,844	7.09	1.6	
17	10,380	75.00	10.9	Upper Marker

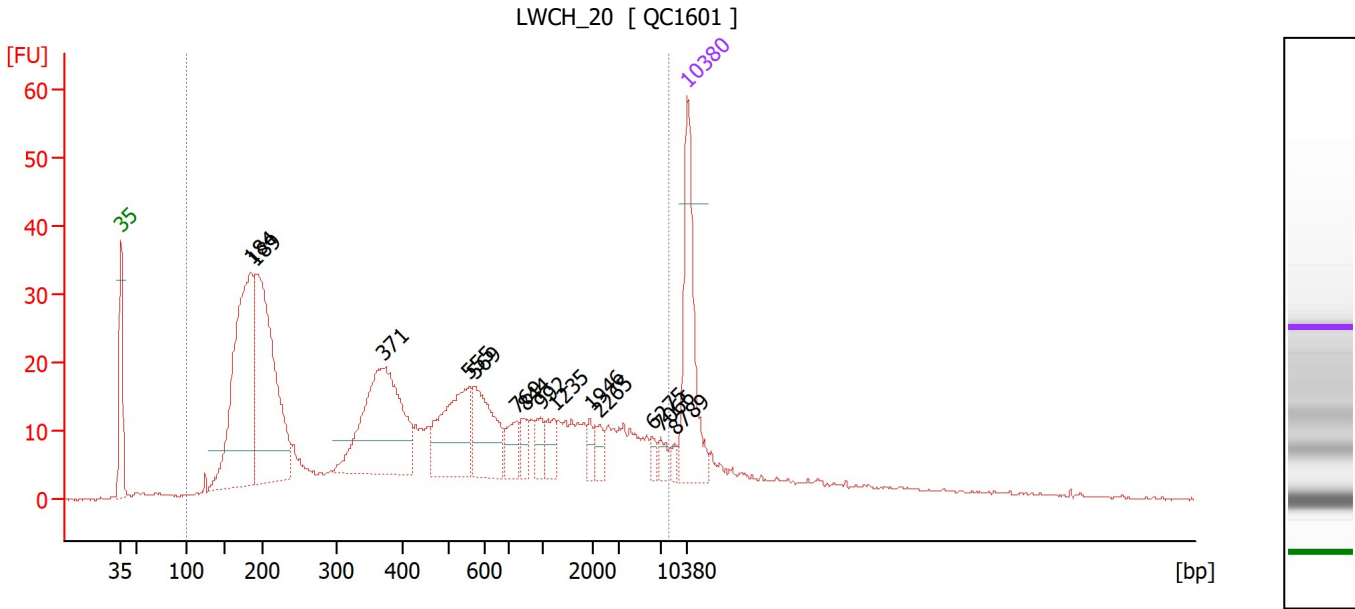
Region table for sample 9 : LWCH_19

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
113	7,825	1,343.3	96	804	100.0	2,263.13	12,233.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : LWCH_20

Number of peaks found: 14 Corr. Area 1: 856.7
 Noise: 0.2

Peak table for sample 10 : LWCH_20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	184	258.30	2,132.5	
3	189	253.40	2,031.0	
4	371	171.63	701.0	
5	555	80.57	219.8	
6	569	60.40	161.0	
7	769	18.00	35.4	
8	844	12.18	21.9	
9	992	12.73	19.4	
10	1,235	14.59	17.9	
11	1,946	7.37	5.7	
12	2,265	9.98	6.7	
13	6,275	5.33	1.3	
14	7,066	7.29	1.6	
15	8,789	4.44	0.8	
16	10,380	75.00	10.9	Upper Marker

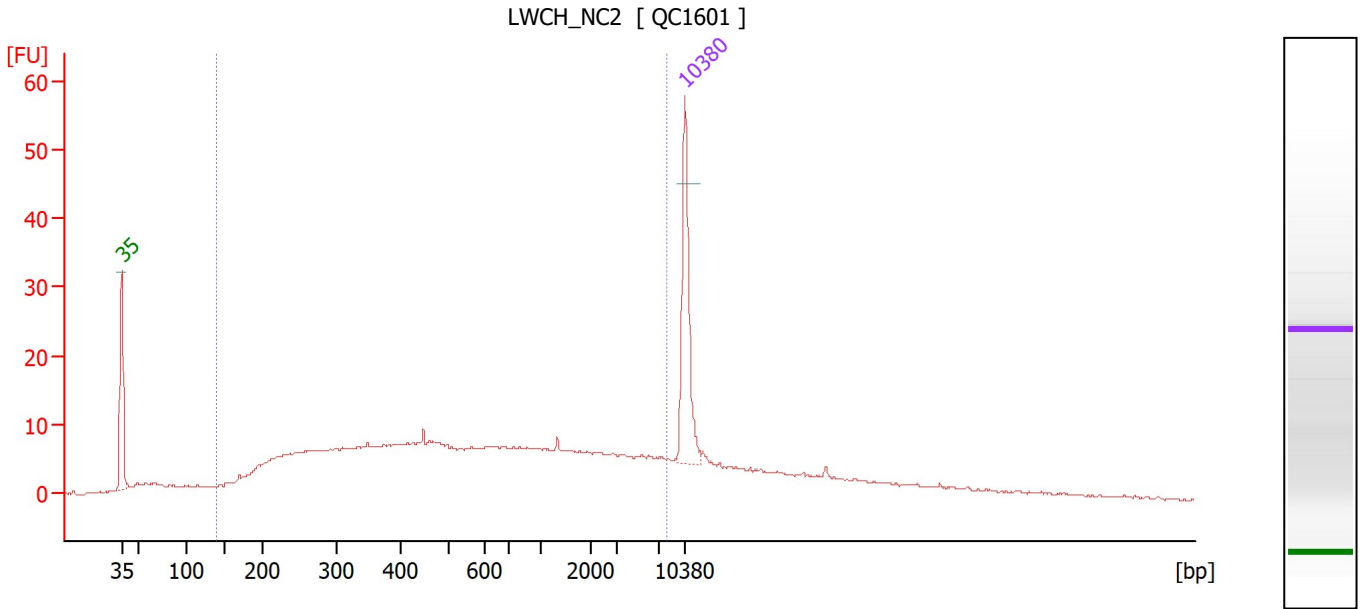
Region table for sample 10 : LWCH_20

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
102	8,003	856.7	91	975	100.0	1,368.34	7,135.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LWCH_NC2

Number of peaks found: 0 Corr. Area 1: 383.6
 Noise: 0.1

Peak table for sample 11 : LWCH_NC2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

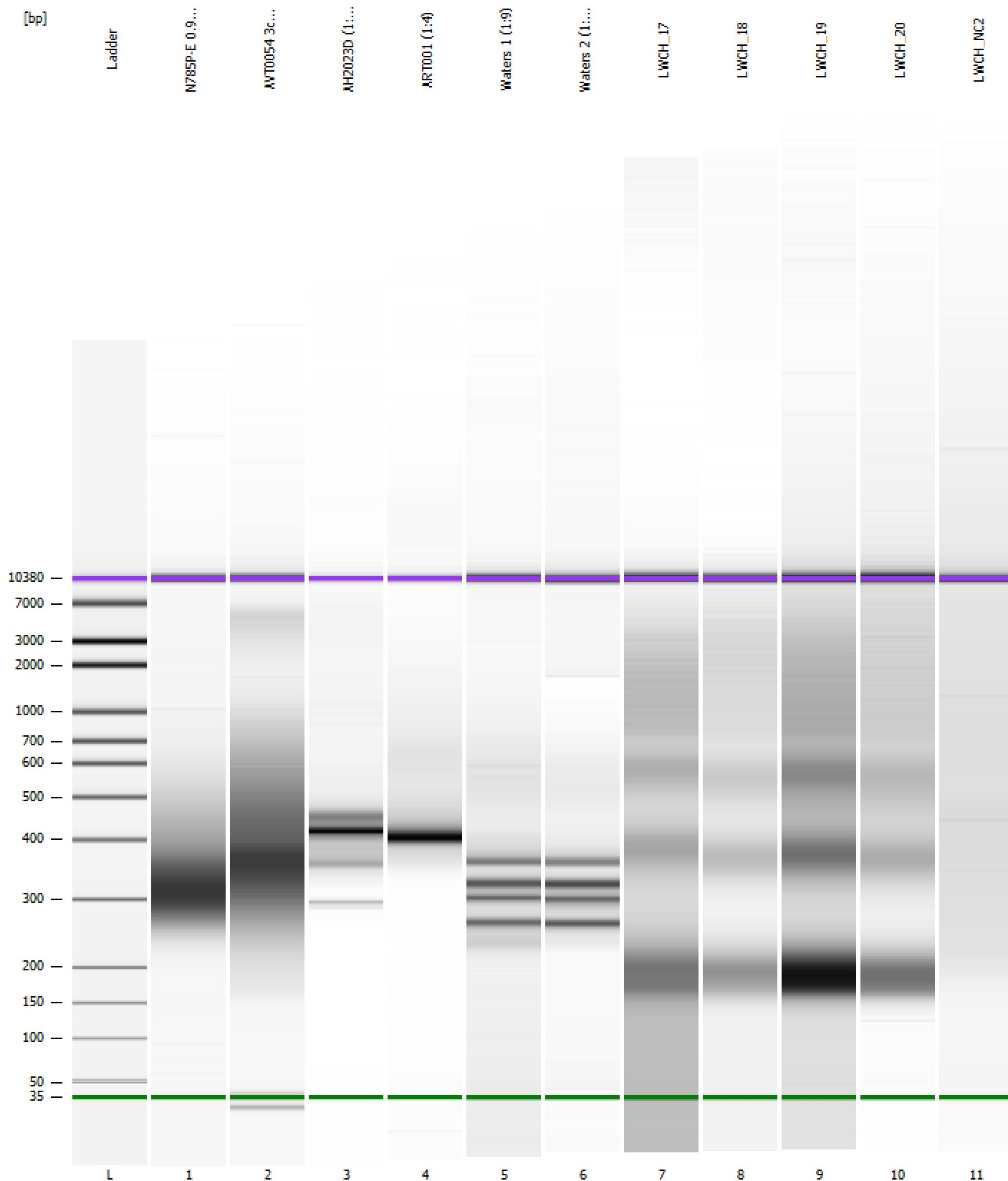
Region table for sample 11 : LWCH_NC2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
139	8,178	383.6	77	1,213	100.0	899.56	3,453.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
Modified: 9/7/2023 1:41:47 PM

Gel Image

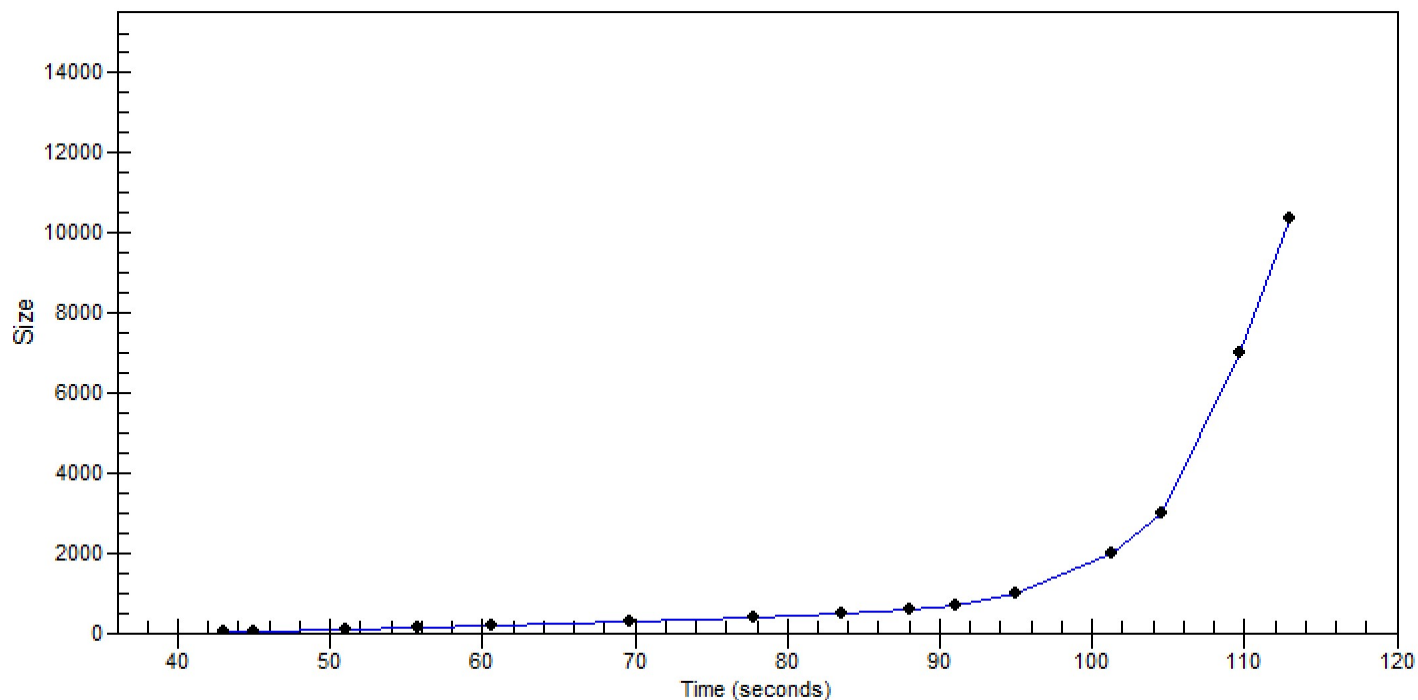


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad

Created: 9/7/2023 12:45:37 PM
Modified: 9/7/2023 1:41:47 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad
 Created: 9/7/2023 12:45:37 PM
 Modified: 9/7/2023 1:41:47 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		9/7/2023 1:26:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-09-07\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-09-07_001.xad)		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/7/2023 12:45:43 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB