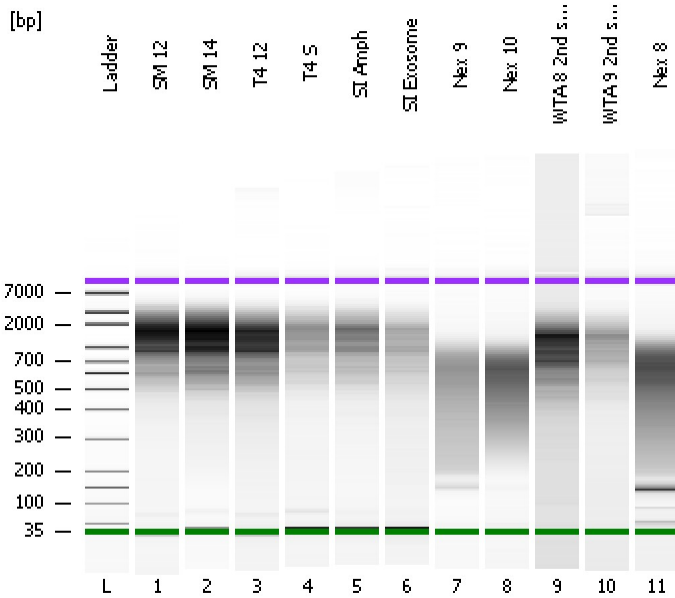


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
Modified: 6/19/2017 5:36:07 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

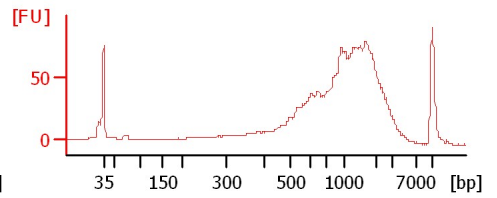
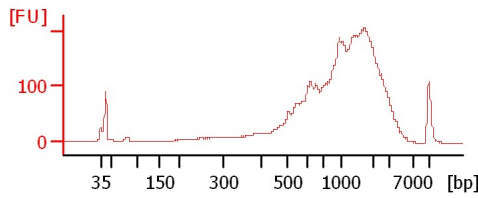
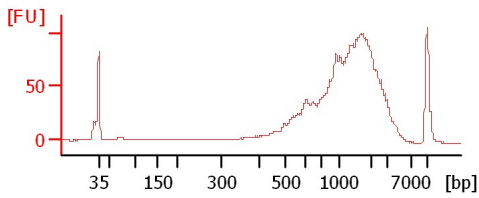
Chip Information:

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

SM 12

SM 14

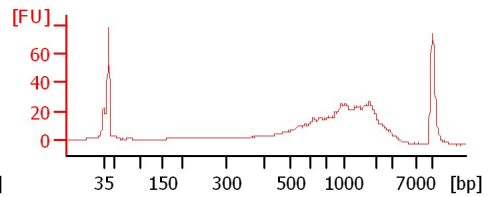
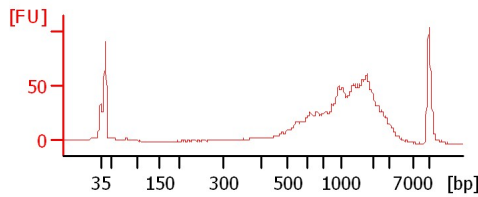
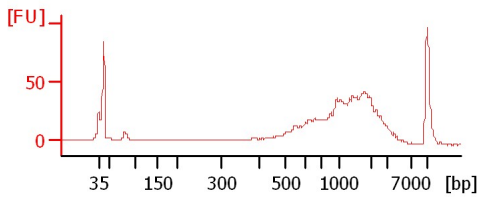
T4 12



T4 S

SI Amph

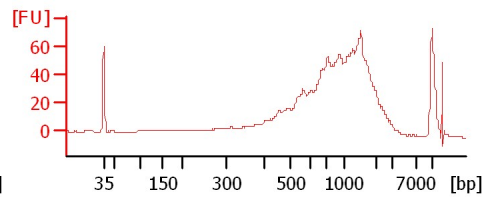
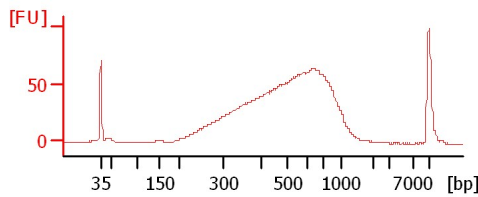
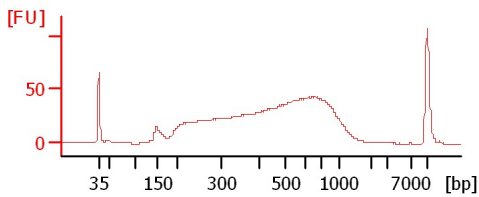
SI Exosome



Nex 9

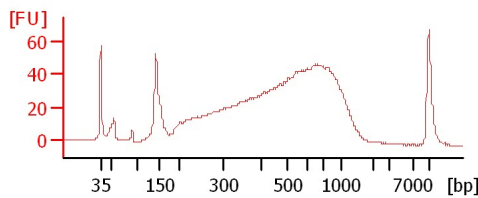
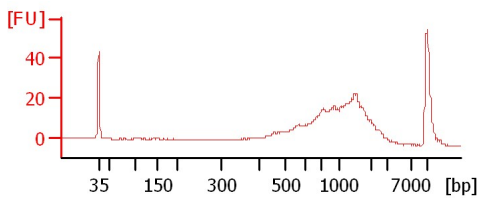
Nex 10

WTA 8 2nd spr



WTA 9 2nd spr

Nex 8



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
Modified: 6/19/2017 5:36:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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SM 14		<input type="checkbox"/>	✓			
T4 12		<input type="checkbox"/>	✓			
T4 S		<input type="checkbox"/>	✓			
SI Amph		<input type="checkbox"/>	✓			
SI Exosome		<input type="checkbox"/>	✓			
Nex 9		<input type="checkbox"/>	✓			
Nex 10		<input type="checkbox"/>	✓			
WTA 8 2nd spri		<input type="checkbox"/>	✓			
WTA 9 2nd spri		<input type="checkbox"/>	✓			
Nex 8		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

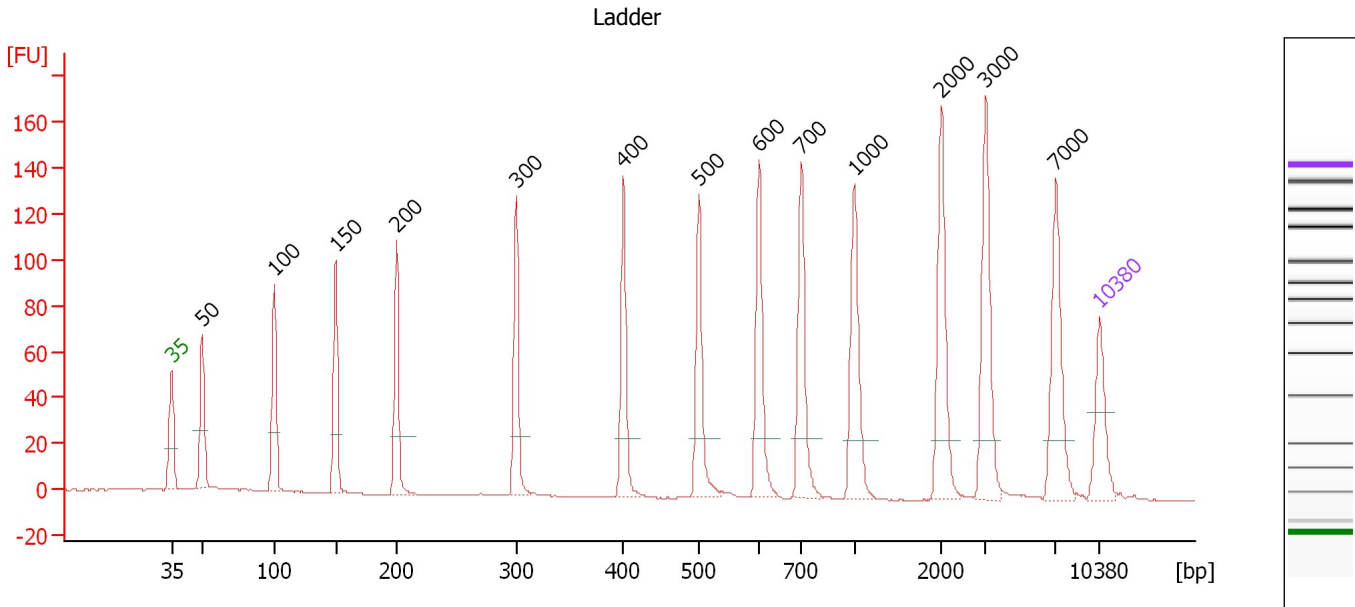
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

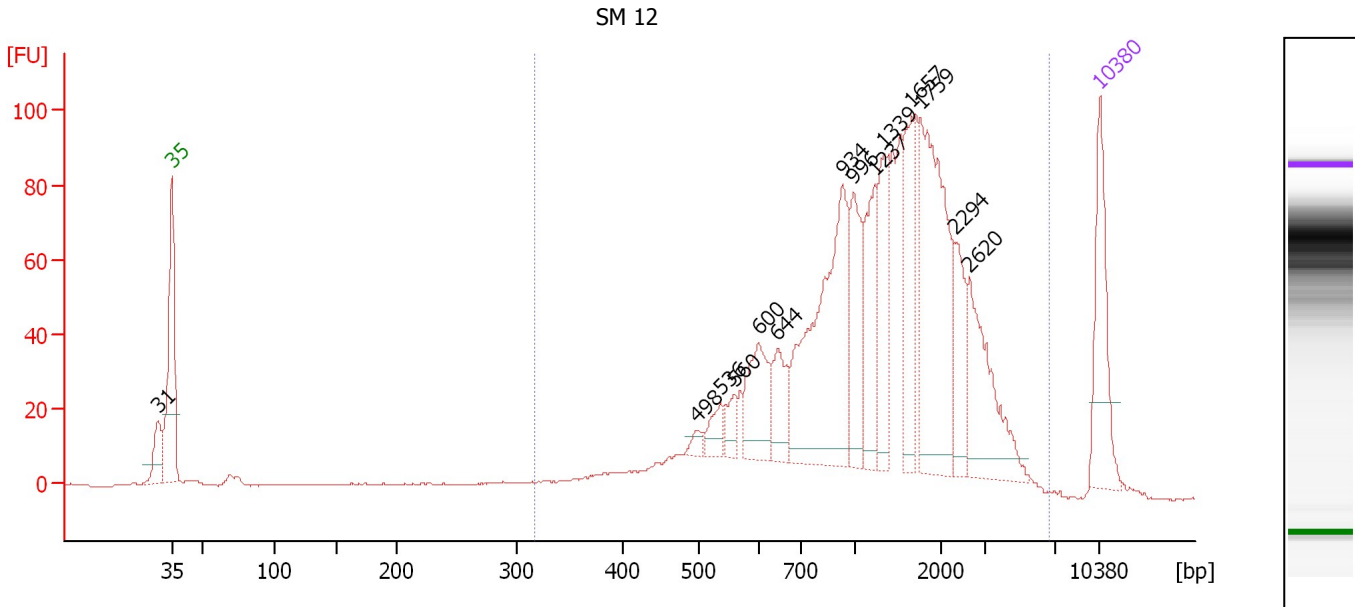
Peak table for Ladder

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	45.29
3	100	150.00	2,272.7	Ladder Peak	50.75
4	150	150.00	1,515.2	Ladder Peak	55.37
5	200	150.00	1,136.4	Ladder Peak	59.95
6	300	150.00	757.6	Ladder Peak	69.01
7	400	150.00	568.2	Ladder Peak	77.09
8	500	150.00	454.5	Ladder Peak	82.74
9	600	150.00	378.8	Ladder Peak	87.27
10	700	150.00	324.7	Ladder Peak	90.49
11	1,000	150.00	227.3	Ladder Peak	94.46
12	2,000	150.00	113.6	Ladder Peak	101.05
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

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 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SM 12

Number of peaks found: 14 Corr. Area 1: 1,489.0
 Noise: 0.2

Peak table for sample 1 : SM 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.95
2	35	125.00	5,411.3	Lower Marker	43.00
3	498	9.23	28.1		82.63
4	536	21.80	61.6		84.39
5	560	17.51	47.4		85.44
6	600	71.62	181.0		87.25
7	644	42.30	99.5		88.68
8	934	232.84	377.6		93.59
9	996	73.30	111.6		94.40
10	1,237	74.92	91.7		96.02
11	1,339	73.14	82.8		96.69
12	1,657	77.69	71.0		98.79
13	1,759	188.57	162.4		99.46
14	2,294	47.68	31.5		102.03
15	2,620	96.24	55.7		103.13
16	10,380	75.00	10.9	Upper Marker	113.00

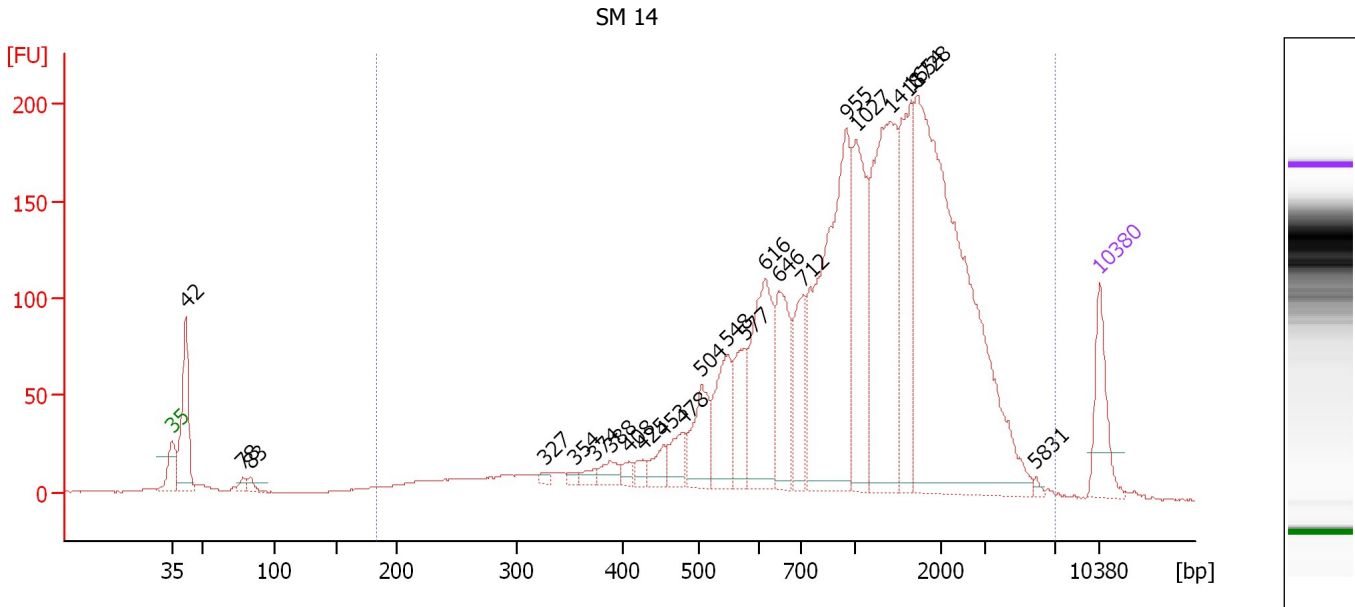
Region table for sample 1 : SM 12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
318	6,550	1,452	1,489.0	2,287.8	1,458.36	95	59.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

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 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SM 14

Number of peaks found: 23 Corr. Area 1: 3,616.2
 Noise: 0.2

Peak table for sample 2 : SM 14

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	42	198.16	7,147.7		44.07
3	78	12.96	250.5		48.39
4	83	14.88	270.7		48.93
5	327	8.17	37.9		71.17
6	354	8.75	37.4		73.41
7	374	14.25	57.8		74.96
8	388	28.39	111.0		76.08
9	408	15.34	57.0		77.54
10	425	18.33	65.3		78.51
11	453	32.59	109.1		80.06
12	478	47.39	150.3		81.47
13	504	96.52	290.0		82.93
14	548	116.67	322.5		84.92
15	577	87.69	230.2		86.23
16	616	218.04	536.2		87.79
17	646	138.53	324.8		88.76
18	712	110.46	235.0		90.65
19	955	454.18	720.9		93.86
20	1,027	199.10	293.8		94.64
21	1,418	365.64	390.7		97.21
22	1,654	183.68	168.3		98.77
23	1,728	780.02	684.0		99.25
24	5,831	4.33	1.1		108.14
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...

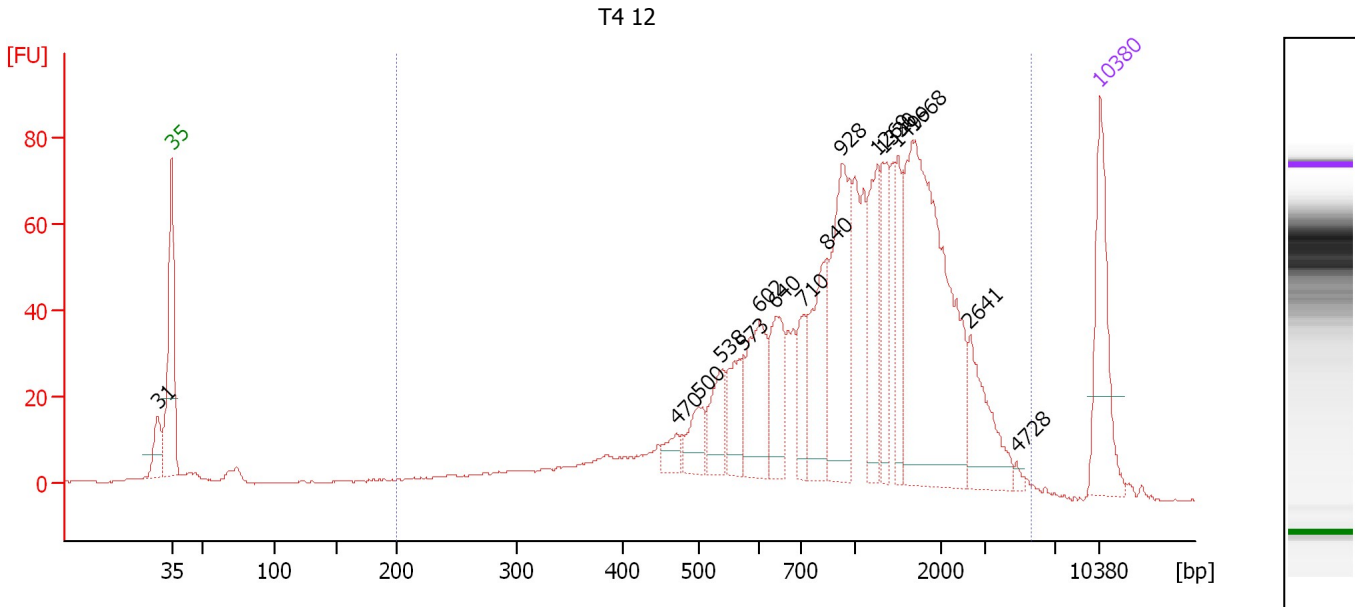
... Region table for sample 2 : SM 14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
184	6,975	1,342	3,616.2	6,460.1	■ 3,315.83	94	66.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : T4 12

Number of peaks found: 16 Corr. Area 1: 1,306.0
 Noise: 0.2

Peak table for sample 3 : T4 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.94
2	35	125.00	5,411.3	Lower Marker	43.00
3	470	16.38	52.8		81.03
4	500	32.43	98.2		82.75
5	538	42.09	118.5		84.46
6	573	43.12	114.1		86.03
7	602	77.33	194.5		87.34
8	640	59.49	140.9		88.56
9	710	35.55	75.8		90.63
10	840	81.73	147.4		92.34
11	928	131.31	214.5		93.51
12	1,269	68.84	82.2		96.23
13	1,330	48.98	55.8		96.64
14	1,499	47.54	48.0		97.75
15	1,668	275.95	250.7		98.86
16	2,641	56.91	32.6		103.20
17	4,728	3.54	1.1		106.69
18	10,380	75.00	10.9	Upper Marker	113.00

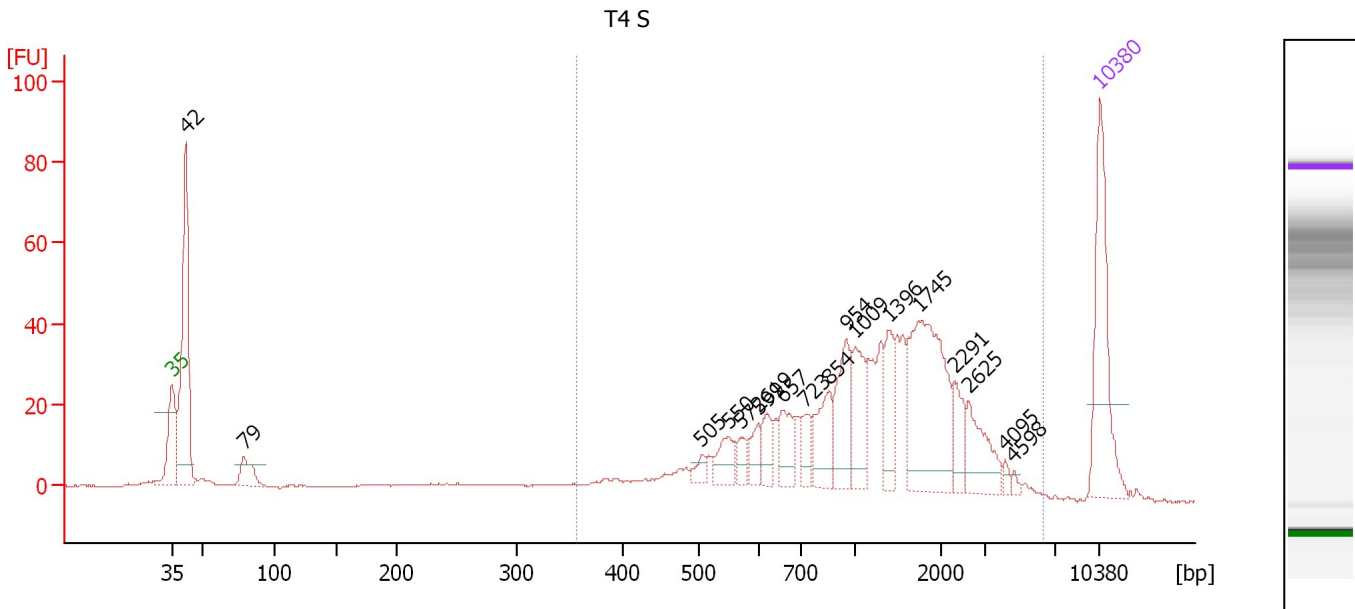
Region table for sample 3 : T4 12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	5,546	1,251	1,306.0	2,626.1	1,370.18	95	60.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : T4 S

Number of peaks found: 18 Corr. Area 1: 649.7
 Noise: 0.2

Peak table for sample 4 : T4 S

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	42	193.28	6,967.9		44.07
3	79	25.37	486.3		48.46
4	505	8.30	24.9		82.98
5	550	21.74	59.9		85.02
6	572	10.19	27.0		85.99
7	599	13.23	33.5		87.22
8	619	17.44	42.7		87.88
9	657	25.29	58.3		89.11
10	723	16.28	34.1		90.79
11	854	36.22	64.3		92.53
12	954	44.96	71.4		93.85
13	1,009	38.38	57.7		94.52
14	1,396	27.58	29.9		97.07
15	1,745	115.01	99.8		99.37
16	2,291	21.13	14.0		102.02
17	2,625	32.83	18.9		103.15
18	4,095	3.63	1.3		105.85
19	4,598	2.63	0.9		106.52
20	10,380	75.00	10.9	Upper Marker	113.00

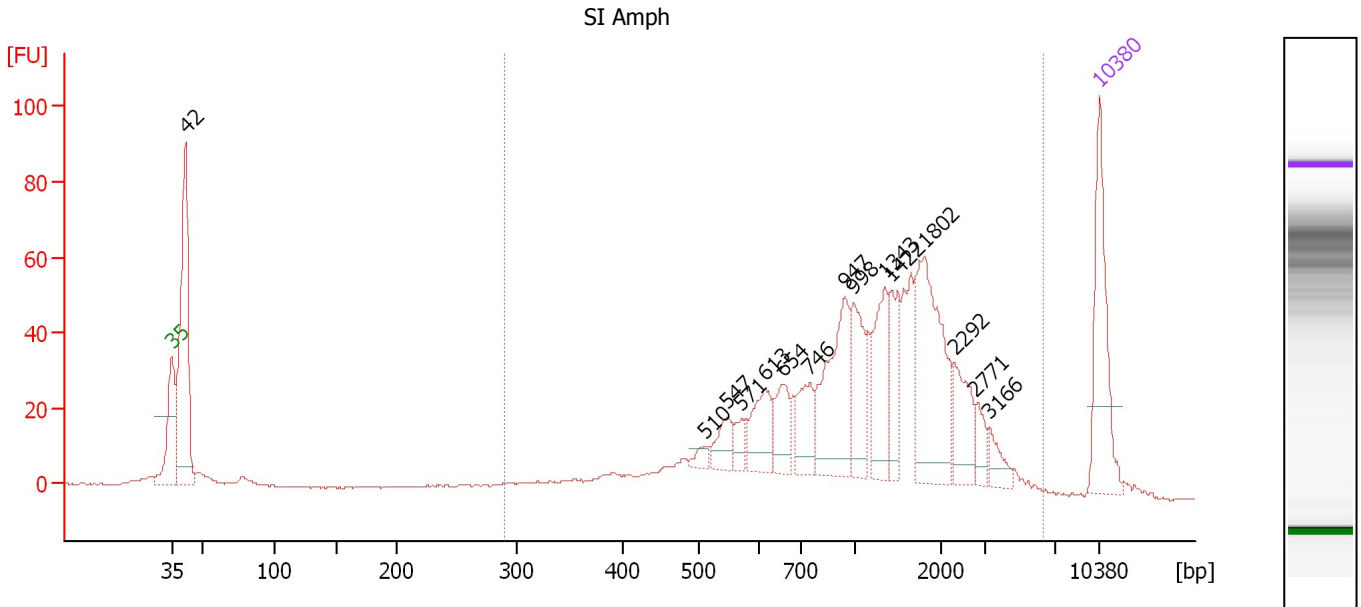
Region table for sample 4 : T4 S

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
355	6,319	1,398	649.7	1,006.5	623.09	78	60.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SI Amph

Number of peaks found: 15 Corr. Area 1: 873.1
 Noise: 0.2

Peak table for sample 5 : SI Amph

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	42	239.67	8,683.7		44.04
3	510	8.98	26.7		83.20
4	547	23.99	66.5		84.86
5	571	13.69	36.3		85.96
6	613	44.39	109.8		87.67
7	654	34.40	79.6		89.03
8	746	38.15	77.4		91.11
9	947	96.83	154.9		93.76
10	998	54.85	83.3		94.43
11	1,343	56.95	64.2		96.72
12	1,422	38.71	41.2		97.24
13	1,802	118.14	99.4		99.74
14	2,292	37.06	24.5		102.03
15	2,771	14.17	7.7		103.64
16	3,166	14.50	6.9		104.63
17	10,380	75.00	10.9	Upper Marker	113.00

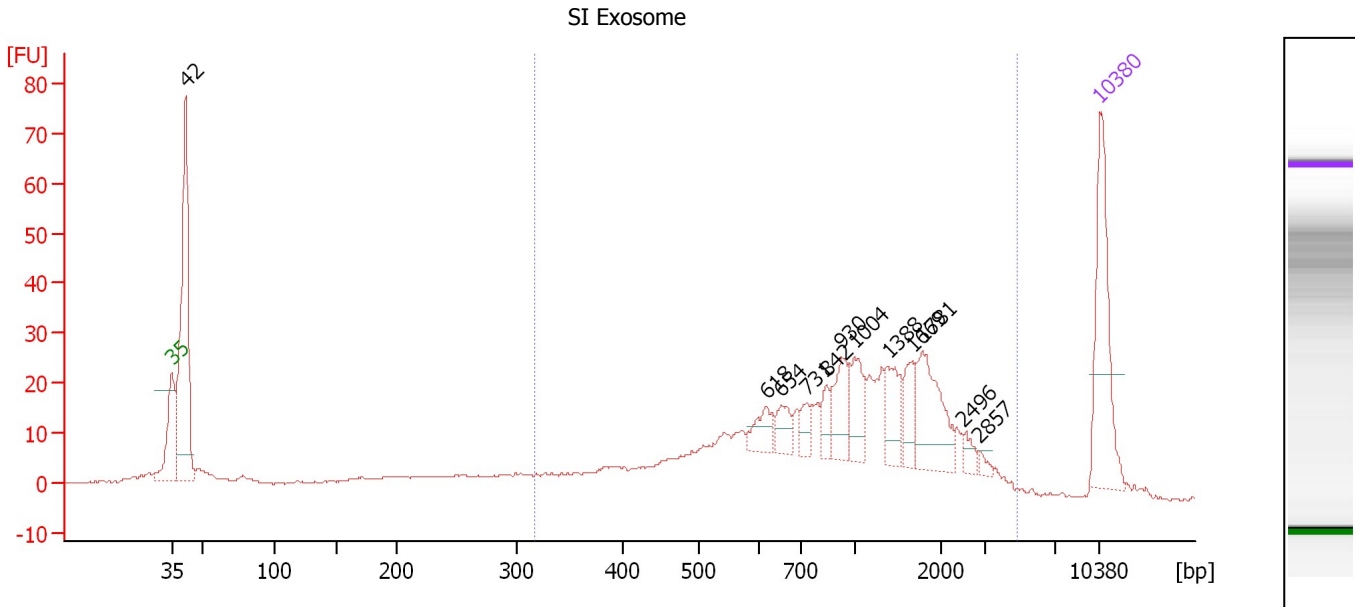
Region table for sample 5 : SI Amph

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
290	6,245	1,355	873.1	1,431.2	851.54	84	59.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SI Exosome

Number of peaks found: 12 Corr. Area 1: 473.7
 Noise: 0.1

Peak table for sample 6 : SI Exosome

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	42	242.86	8,778.9		44.06
3	618	18.95	46.5		87.84
4	654	17.01	39.4		89.00
5	731	12.96	26.9		90.90
6	842	13.72	24.7		92.37
7	930	35.07	57.1		93.54
8	1,004	30.24	45.7		94.48
9	1,388	26.51	28.9		97.02
10	1,669	21.95	19.9		98.86
11	1,781	55.16	46.9		99.60
12	2,496	7.62	4.6		102.71
13	2,857	3.71	2.0		103.93
14	10,380	75.00	10.9	Upper Marker	113.00

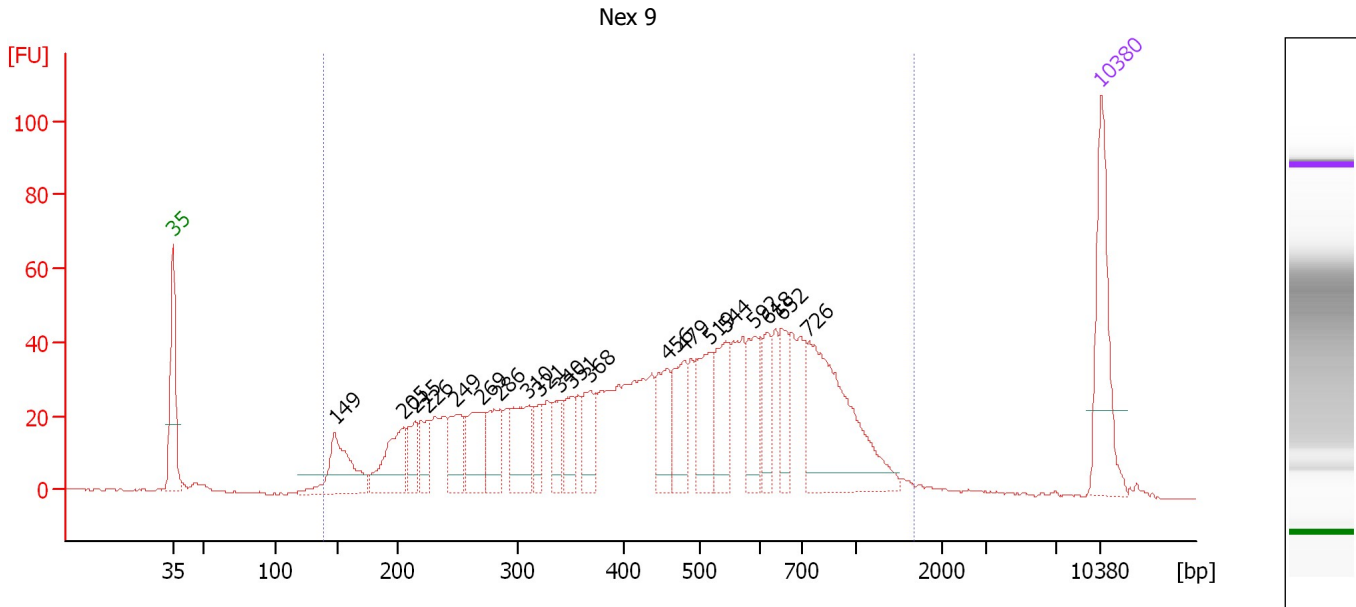
Region table for sample 6 : SI Exosome

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
317	4,732	1,168	473.7	1,157.6	595.43	72	59.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Nex 9

Number of peaks found: 20 Corr. Area 1: 1,415.7
 Noise: 0.2

Peak table for sample 7 : Nex 9

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	149	84.74	864.1		55.24
3	205	69.26	510.7		60.45
4	215	29.53	208.1		61.31
5	226	32.30	216.8		62.29
6	249	43.56	264.9		64.40
7	269	55.52	312.2		66.24
8	286	48.76	258.7		67.71
9	310	64.48	315.1		69.82
10	321	26.96	127.1		70.74
11	340	29.08	129.8		72.20
12	351	33.59	145.0		73.12
13	368	38.15	157.2		74.48
14	456	50.35	167.2		80.28
15	479	49.66	156.9		81.58
16	519	61.15	178.7		83.58
17	544	58.12	162.0		84.72
18	592	44.60	114.2		86.89
19	618	35.09	86.0		87.86
20	652	36.14	84.0		88.94
21	726	168.24	350.9		90.84
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...

... Region table for sample 7 :

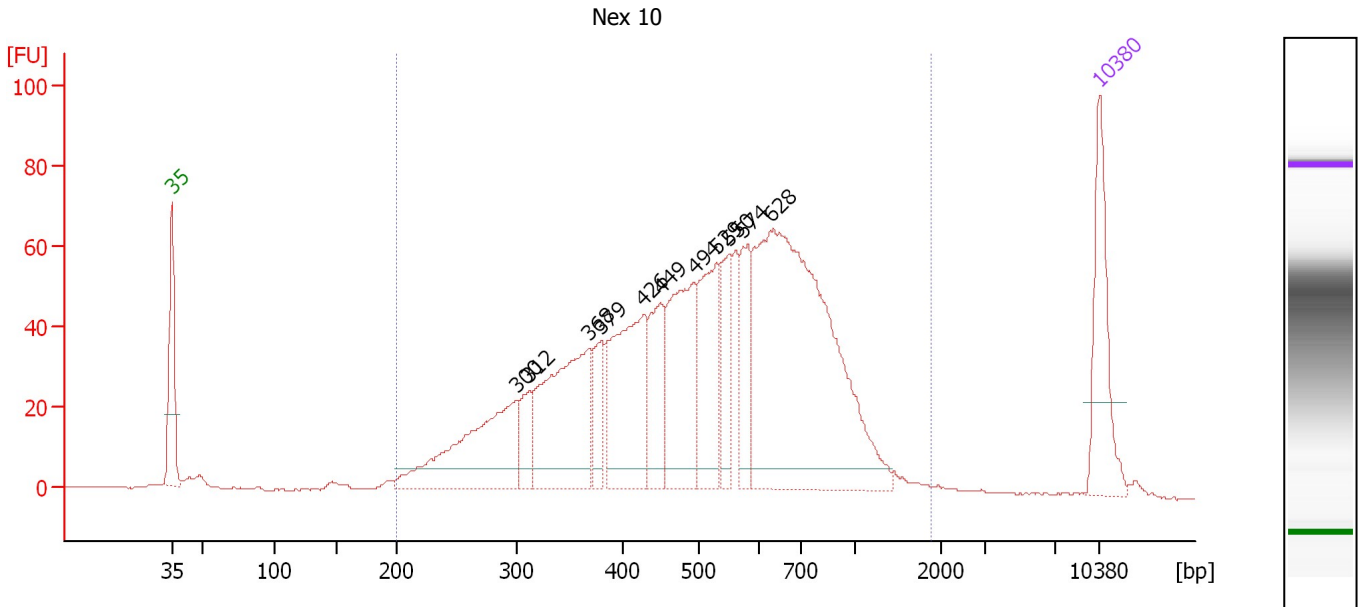
Nex 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
139	1,675	505	1,415.7	6,528.4	1,557.73	98	48.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Nex 10

Number of peaks found: 11 Corr. Area 1: 1,560.6
 Noise: 0.2

Peak table for sample 8 : Nex 10

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	300	184.02	928.3		69.04
3	312	38.12	185.3		69.96
4	368	188.95	778.4		74.49
5	379	41.86	167.5		75.36
6	426	165.13	587.0		78.57
7	449	76.73	258.7		79.88
8	494	145.25	445.7		82.39
9	529	109.66	313.8		84.07
10	550	58.77	161.9		85.00
11	574	62.74	165.6		86.09
12	628	474.91	1,146.5		88.16
13	10,380	75.00	10.9	Upper Marker	113.00

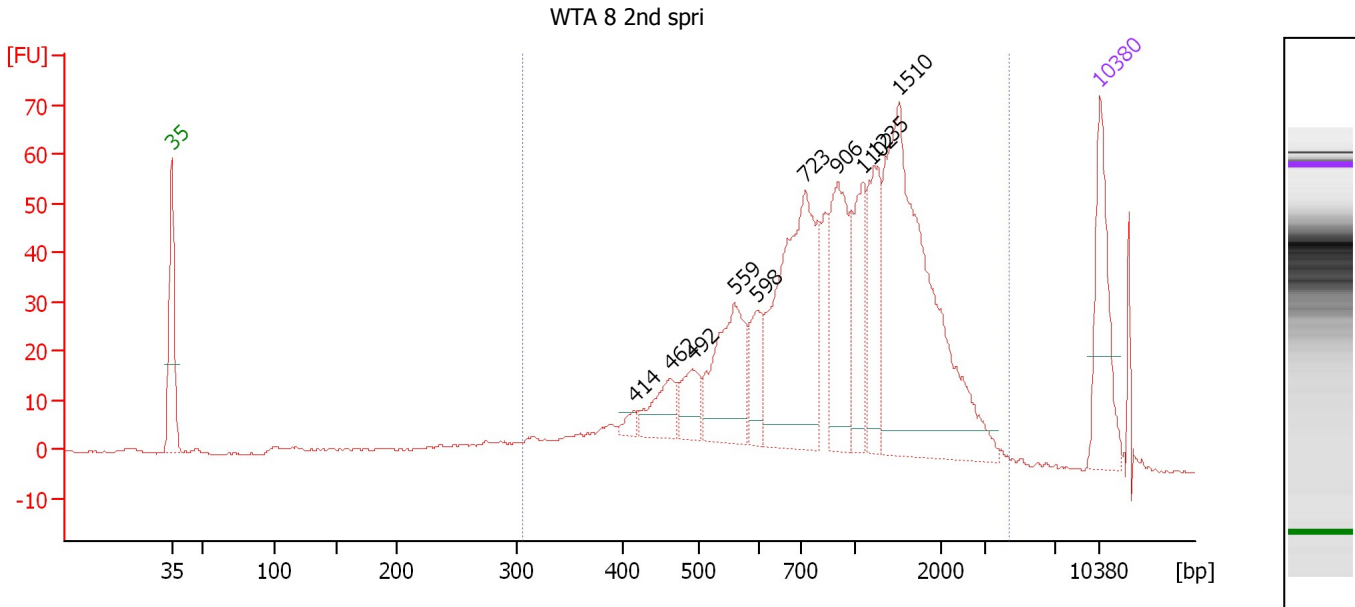
Region table for sample 8 : Nex 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,872	545	1,560.6	5,630.6	1,660.58	98	40.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

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 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WTA 8 2nd spri

Number of peaks found: 10 Corr. Area 1: 1,031.2
 Noise: 0.2

Peak table for sample 9 : WTA 8 2nd spri

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	414	9.89	36.2		77.86
3	462	41.73	136.8		80.60
4	492	39.25	120.8		82.30
5	559	113.58	307.7		85.43
6	598	40.02	101.4		87.18
7	723	248.75	521.1		90.80
8	906	109.45	183.1		93.21
9	1,102	72.12	99.2		95.13
10	1,235	72.96	89.5		96.01
11	1,510	320.97	322.2		97.82
12	10,380	75.00	10.9	Upper Marker	113.00

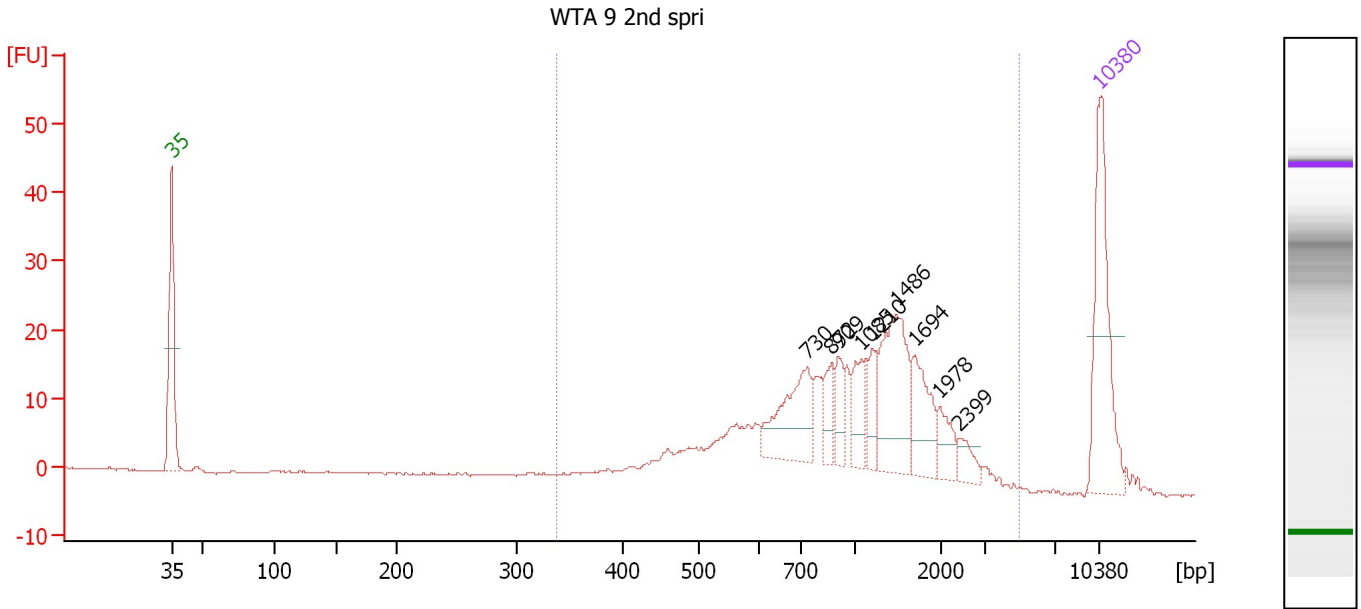
Region table for sample 9 : WTA 8 2nd spri

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
307	4,354	1,069	1,031.2	2,571.8	1,291.73	94	54.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

Created: 6/19/2017 4:46:08 PM
 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WTA 9 2nd spri

Number of peaks found: 9 Corr. Area 1: 298.7
 Noise: 0.2

Peak table for sample 10 : WTA 9 2nd spri

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	730	60.56	125.6		90.89
3	872	18.33	31.9		92.76
4	909	17.07	28.4		93.26
5	1,085	23.48	32.8		95.02
6	1,210	17.58	22.0		95.84
7	1,486	69.70	71.1		97.66
8	1,694	35.63	31.9		99.03
9	1,978	15.76	12.1		100.90
10	2,399	10.50	6.6		102.39
11	10,380	75.00	10.9	Upper Marker	113.00

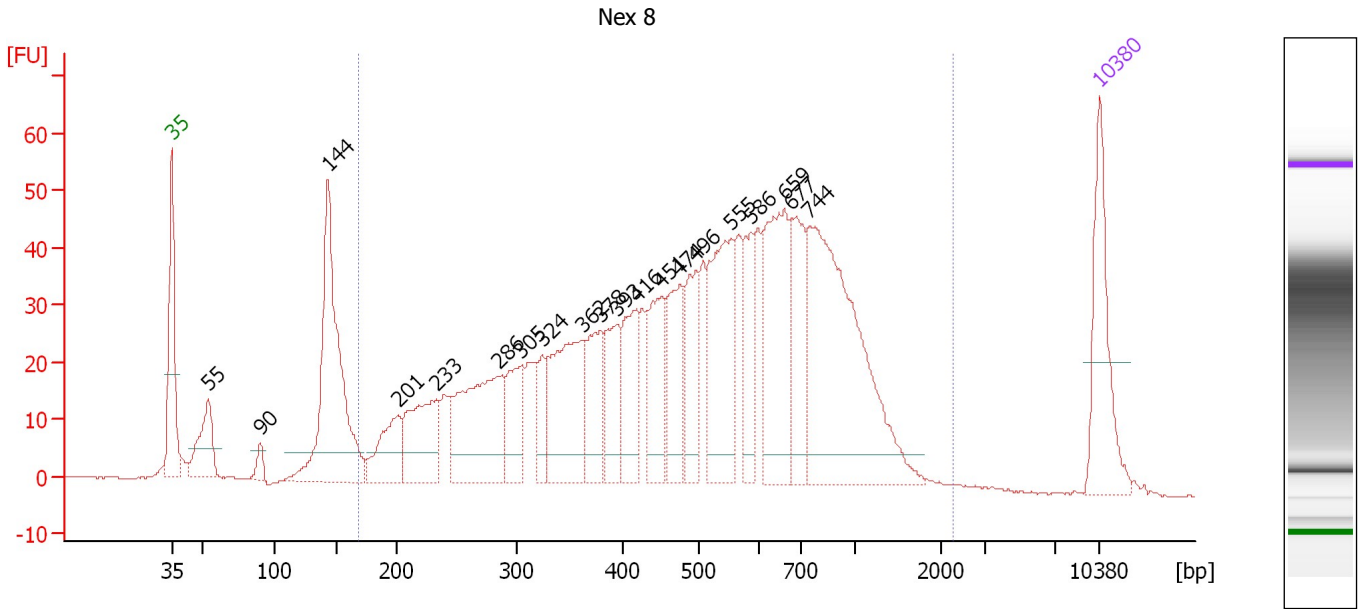
Region table for sample 10 : WTA 9 2nd spri

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
337	4,860	1,140	298.7	800.0	448.22	97	49.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

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 Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Nex 8

Number of peaks found: 20 Corr. Area 1: 1,329.0
 Noise: 0.1

Peak table for sample 11 : Nex 8

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	55	64.69	1,797.7		45.78
3	90	13.27	223.1		49.68
4	144	271.32	2,859.8		54.80
5	201	61.86	465.3		60.08
6	233	94.88	616.0		62.98
7	286	161.69	857.8		67.71
8	305	61.13	304.2		69.38
9	324	33.40	156.3		70.93
10	362	130.92	547.4		74.05
11	378	65.26	261.5		75.33
12	393	60.57	233.3		76.55
13	416	66.53	242.3		78.00
14	451	76.34	256.7		79.95
15	474	76.64	244.9		81.28
16	496	64.03	195.6		82.51
17	555	126.37	344.9		85.23
18	586	49.88	129.0		86.62
19	659	142.33	327.0		89.18
20	677	77.93	174.5		89.74
21	744	290.68	591.8		91.08
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

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Modified: 6/19/2017 5:36:07 PM

Electropherogram Summary Continued ...

... Region table for sample 11 : Nex 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
170	2,239	556	1,329.0	7,113.5	1,930.77	88	48.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-19\2017-06-19_001.xad

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Gel Image

