

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-23\2016-05-23_002.xad

Created: 5/23/2016 12:45:44 PM
Modified: 5/23/2016 2:29:17 PM

Electrophoresis File Run Summary

Instrument Information:

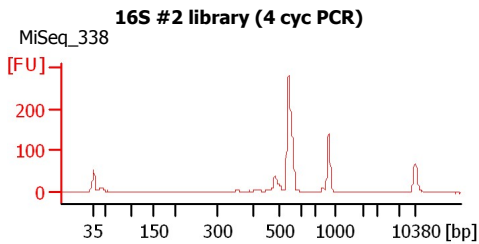
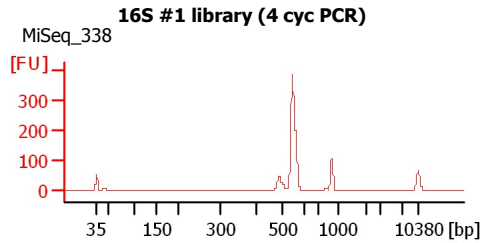
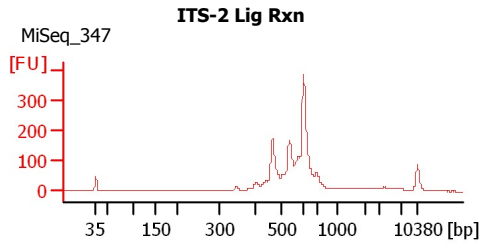
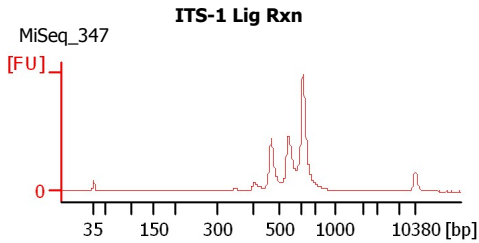
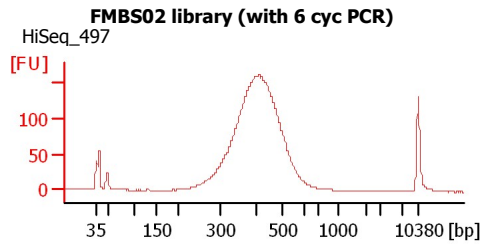
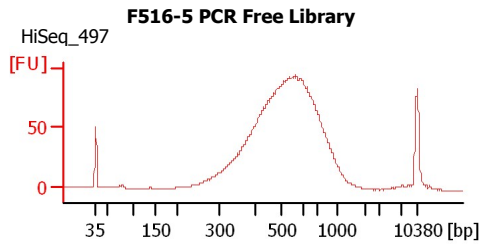
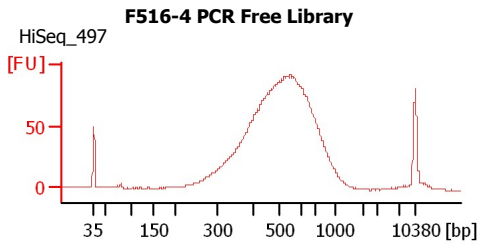
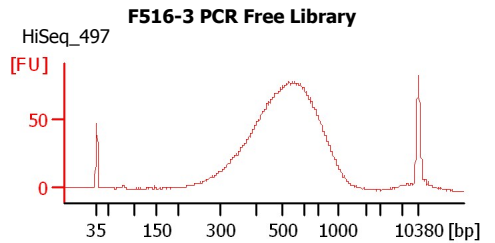
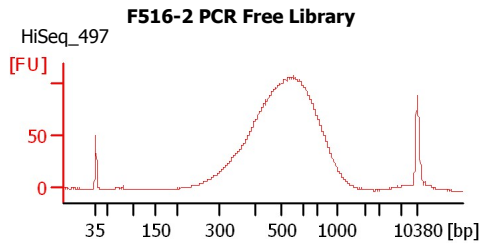
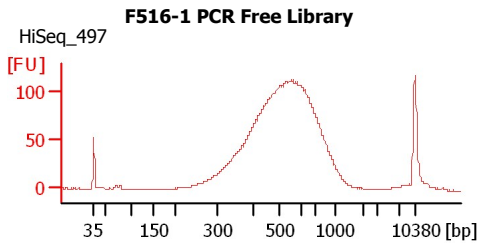
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
F516-1 PCR Free Library	HiSeq_497	<input type="checkbox"/>	✓			
F516-2 PCR Free Library	HiSeq_497	<input type="checkbox"/>	✓			
F516-3 PCR Free Library	HiSeq_497	<input type="checkbox"/>	✓			
F516-4 PCR Free Library	HiSeq_497	<input type="checkbox"/>	✓			
F516-5 PCR Free Library	HiSeq_497	<input type="checkbox"/>	✓			
FMBS02 library (with 6 cyc PCR)	HiSeq_497	<input type="checkbox"/>	✓			
ITS-1 Lig Rxn	MiSeq_347	<input type="checkbox"/>	✓			
ITS-2 Lig Rxn	MiSeq_347	<input type="checkbox"/>	✓			
16S #1 library (4 cyc PCR)	MiSeq_338	<input type="checkbox"/>	✓			
16S #2 library (4 cyc PCR)	MiSeq_338	<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

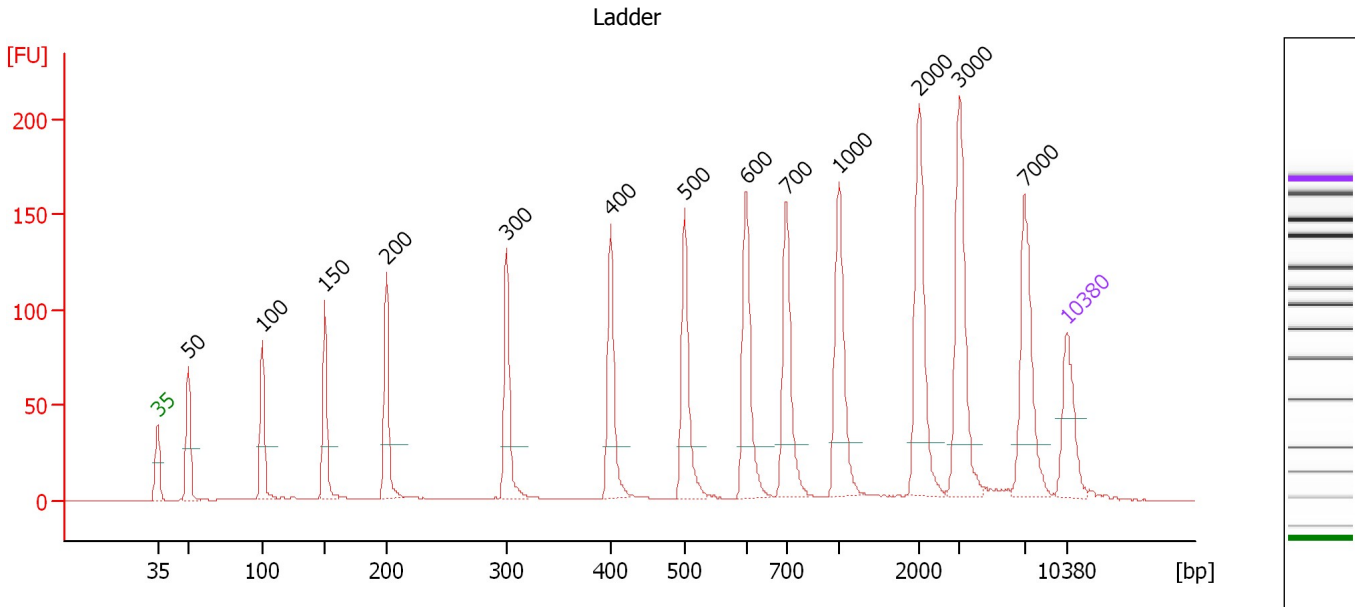
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

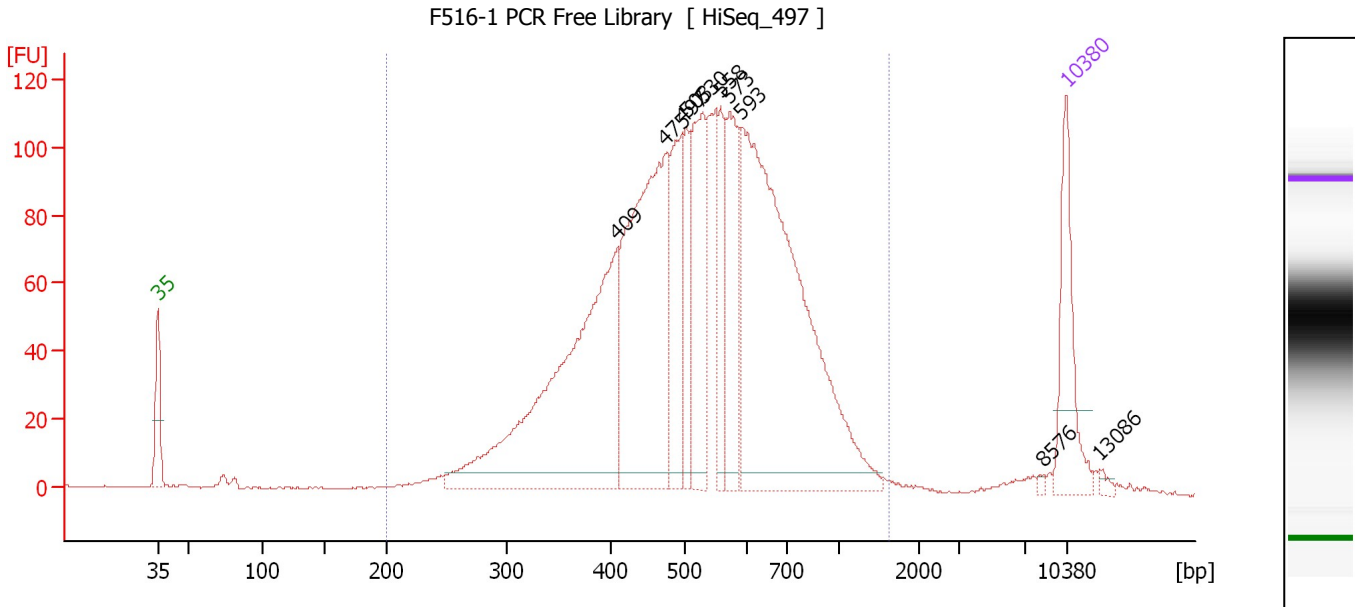
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.38
3	100	150.00	2,272.7	Ladder Peak	51.08
4	150	150.00	1,515.2	Ladder Peak	55.88
5	200	150.00	1,136.4	Ladder Peak	60.63
6	300	150.00	757.6	Ladder Peak	69.90
7	400	150.00	568.2	Ladder Peak	77.88
8	500	150.00	454.5	Ladder Peak	83.58
9	600	150.00	378.8	Ladder Peak	88.34
10	700	150.00	324.7	Ladder Peak	91.42
11	1,000	150.00	227.3	Ladder Peak	95.46
12	2,000	150.00	113.6	Ladder Peak	101.64
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : F516-1 PCR Free Library

Number of peaks found: 10 Corr. Area 1: 2,369.3
 Noise: 0.2

Peak table for sample 1 : F516-1 PCR Free Library

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	409	450.86	1,669.3		78.41
3	475	376.78	1,202.5		82.14
4	497	114.65	349.8		83.39
5	503	72.91	219.6		83.73
6	530	138.51	395.8		85.02
7	558	75.69	205.4		86.36
8	573	104.31	276.0		87.03
9	593	545.93	1,395.6		87.99
10	8,576	2.26	0.4		111.28
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,086	0.00	0.0		115.59

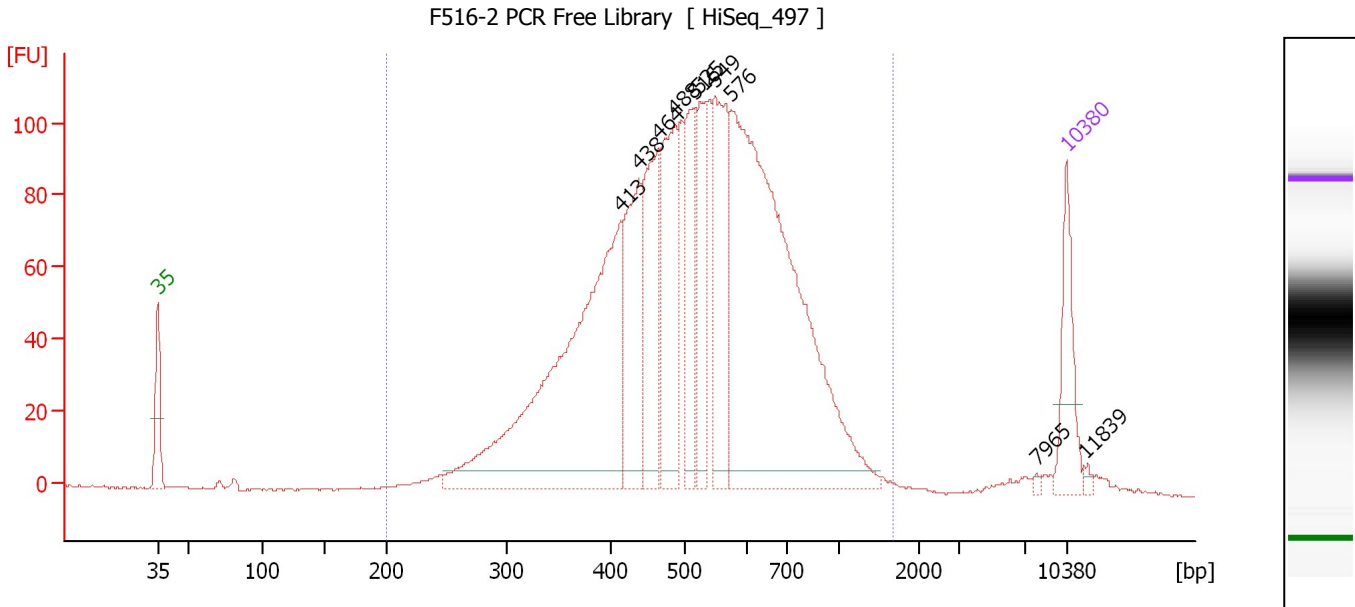
Region table for sample 1 : F516-1 PCR Free Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,634	547	2,369.3	6,633.5	2,105.43	97	33.2

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 2 : F516-2 PCR Free Library

Number of peaks found: 10 Corr. Area 1: 2,262.6
 Noise: 0.2

Peak table for sample 2 : F516-2 PCR Free Library

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	413	701.26	2,569.7		78.65
3	438	202.29	699.9		80.04
4	464	201.10	656.5		81.54
5	488	214.83	667.4		82.88
6	516	142.23	417.9		84.33
7	525	127.36	367.7		84.76
8	549	214.44	591.8		85.91
9	576	860.46	2,262.0		87.21
10	7,965	2.84	0.5		110.69
11	10,380	75.00	10.9	Upper Marker	113.00
12	11,839	0.00	0.0		114.40

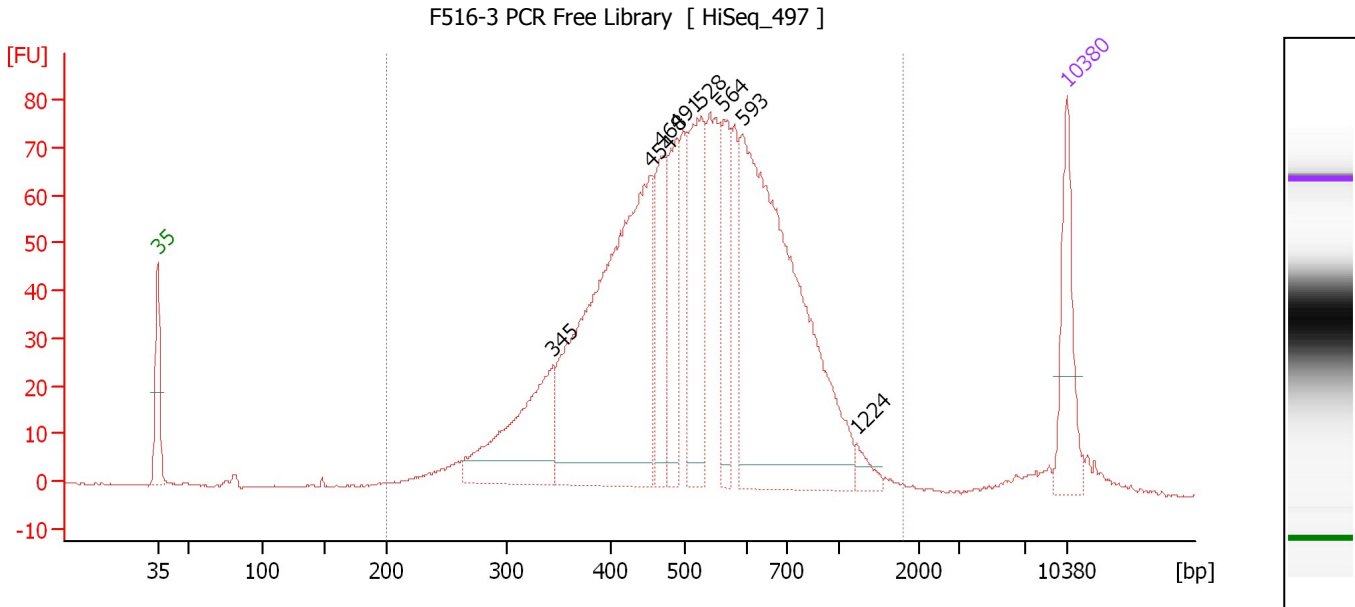
Region table for sample 2 : F516-2 PCR Free Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,685	541	2,262.6	9,285.5	2,931.98	98	32.8

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 3 : F516-3 PCR Free Library

Number of peaks found: 8 Corr. Area 1: 1,675.9
 Noise: 0.2

Peak table for sample 3 : F516-3 PCR Free Library

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	345	200.72	882.3		73.46
3	454	605.79	2,023.7		80.93
4	468	121.99	394.9		81.76
5	491	113.80	351.2		83.07
6	528	176.61	506.8		84.91
7	564	104.34	280.4		86.61
8	593	578.15	1,476.5		88.02
9	1,224	15.41	19.1		96.85
10	10,380	75.00	10.9	Upper Marker	113.00

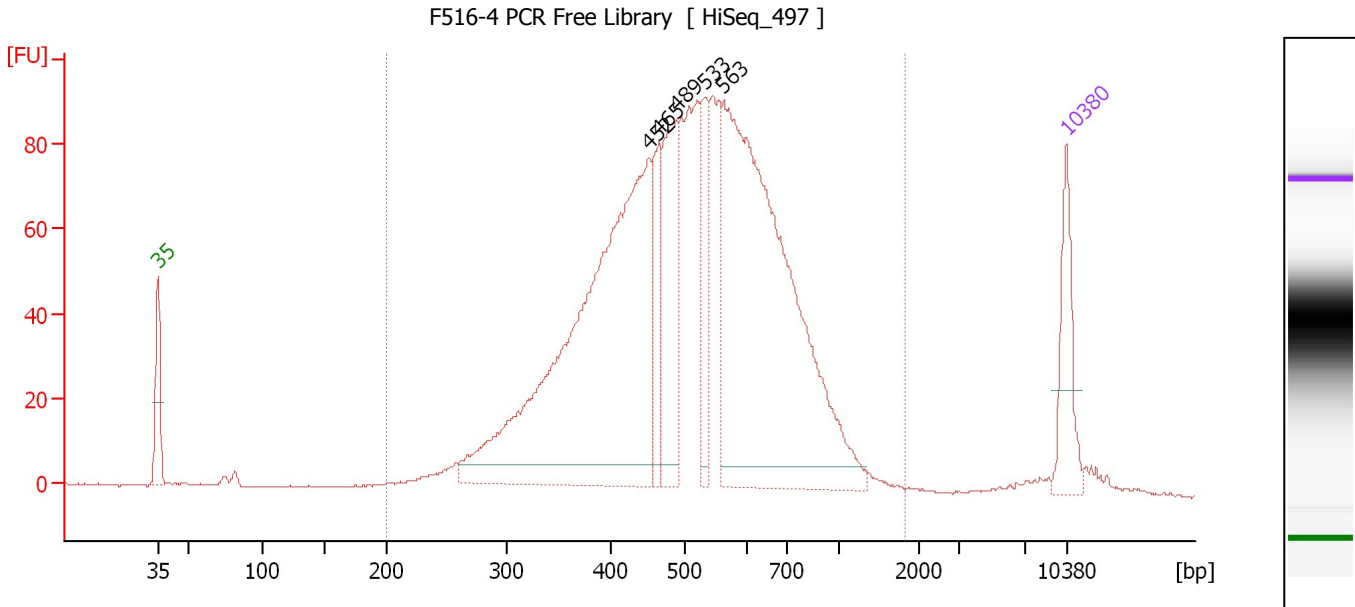
Region table for sample 3 : F516-3 PCR Free Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,800	544	1,675.9	7,412.4	2,323.73	97	34.6

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 4 : F516-4 PCR Free Library

Number of peaks found: 5 Corr. Area 1: 1,923.0
 Noise: 0.2

Peak table for sample 4 : F516-4 PCR Free Library

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	452	940.29	3,148.6		80.87
3	465	91.81	298.9		81.61
4	489	191.45	593.6		82.94
5	533	106.14	301.8		85.15
6	563	859.59	2,313.8		86.57
7	10,380	75.00	10.9	Upper Marker	113.00

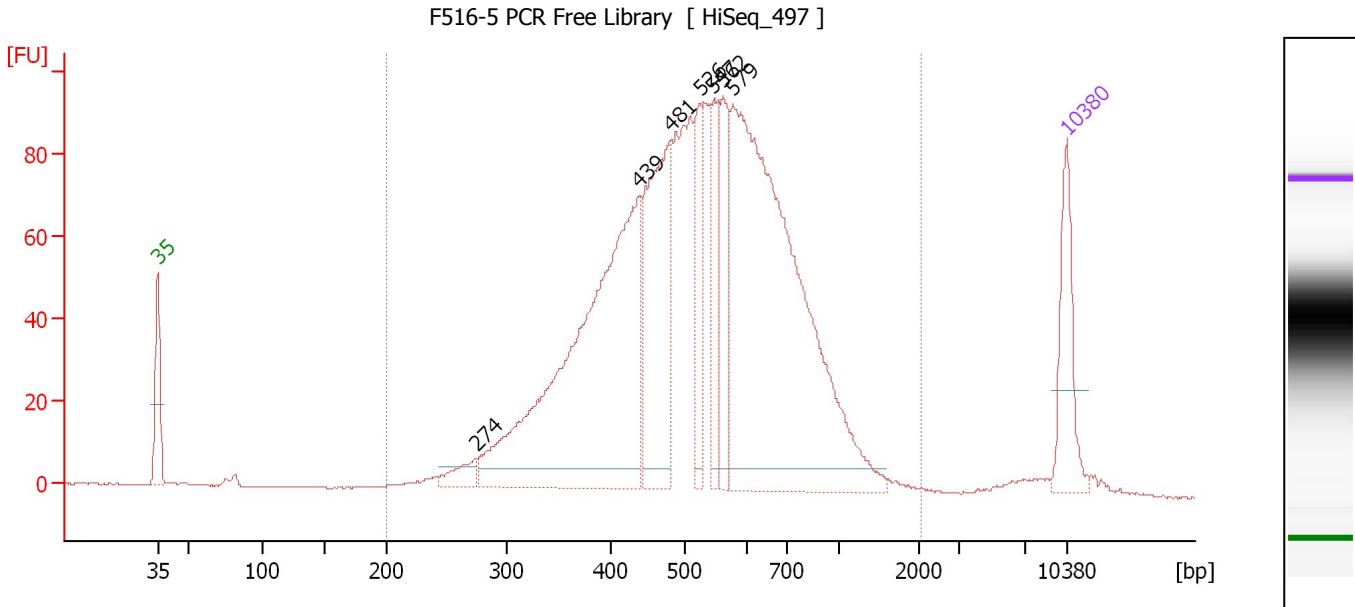
Region table for sample 4 : F516-4 PCR Free Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,828	532	1,923.0	8,965.7	2,777.83	97	32.8

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 5 : F516-5 PCR Free Library

Number of peaks found: 7 Corr. Area 1: 1,949.0
 Noise: 0.2

Peak table for sample 5 : F516-5 PCR Free Library

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	274	29.48	163.0		67.50
3	439	670.25	2,312.0		80.12
4	481	269.78	850.2		82.49
5	526	87.54	252.3		84.80
6	547	86.50	239.4		85.84
7	562	110.55	298.1		86.53
8	579	764.05	2,000.9		87.32
9	10,380	75.00	10.9	Upper Marker	113.00

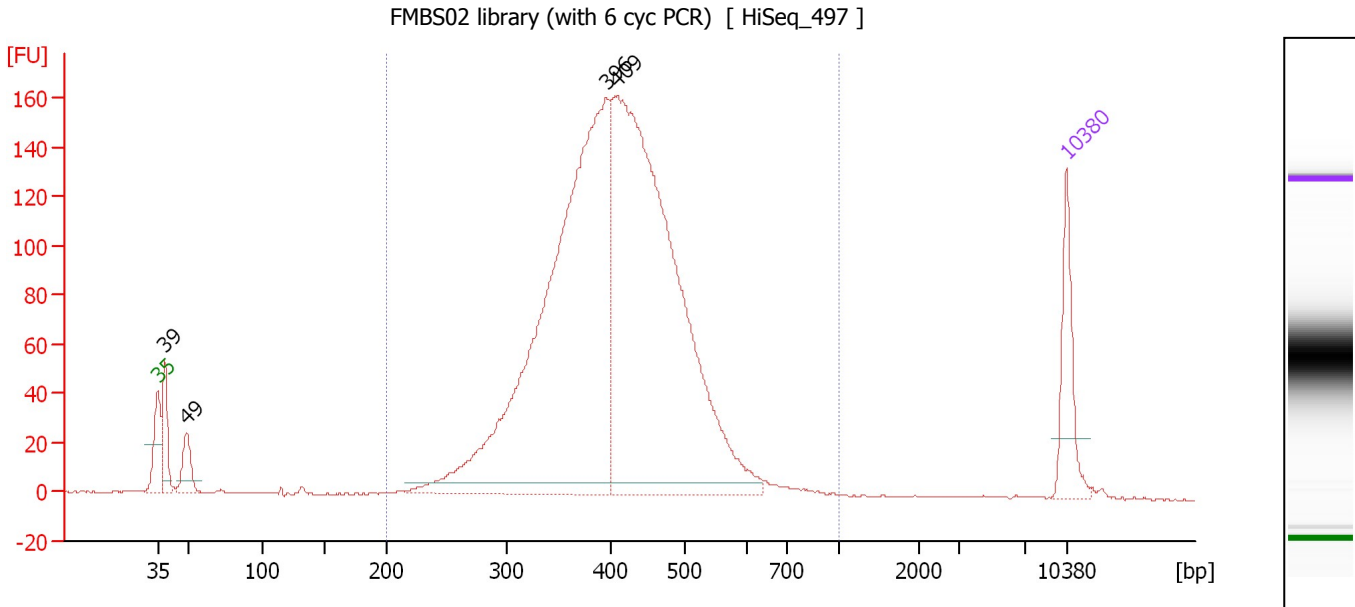
Region table for sample 5 : F516-5 PCR Free Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	2,044	552	1,949.0	7,586.6	2,424.79	98	35.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-23\2016-05-23_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : FMBS02 library (with 6 cyc PCR)

Number of peaks found: 4 Corr. Area 1: 2,463.0
 Noise: 0.2

Peak table for sample 6 : FMBS02 library (with 6 cyc PCR)

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	39	87.46	3,419.4		43.59
3	49	57.52	1,775.6		45.23
4	396	1,161.79	4,446.3		77.55
5	409	1,194.98	4,426.4		78.40
6	10,380	75.00	10.9	Upper Marker	113.00

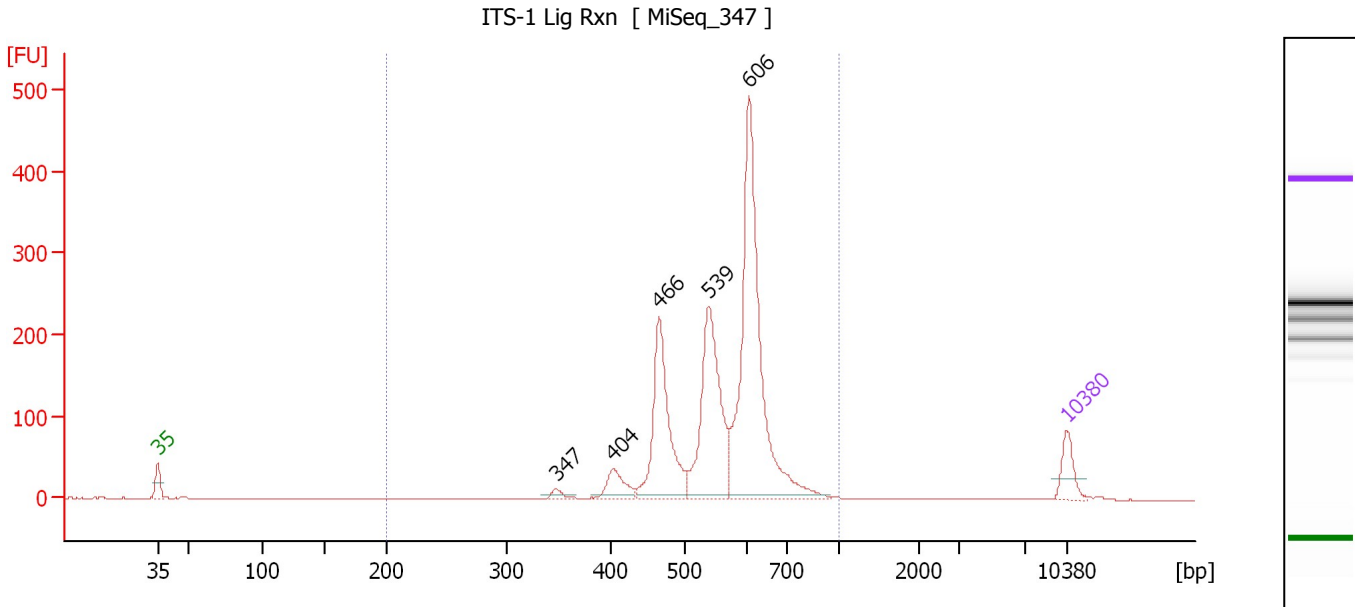
Region table for sample 6 : FMBS02 library (with 6 cyc PCR)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	412	2,463.0	9,520.1	2,471.93	95	18.9

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 7 : ITS-1 Lig Rxn

Number of peaks found: 5 Corr. Area 1: 1,877.5
 Noise: 0.2

Peak table for sample 7 : ITS-1 Lig Rxn

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	347	23.68	103.3		73.67
3	404	98.66	370.1		78.10
4	466	519.32	1,689.7		81.63
5	539	617.75	1,735.4		85.45
6	606	1,114.44	2,785.8		88.53
7	10,380	75.00	10.9	Upper Marker	113.00

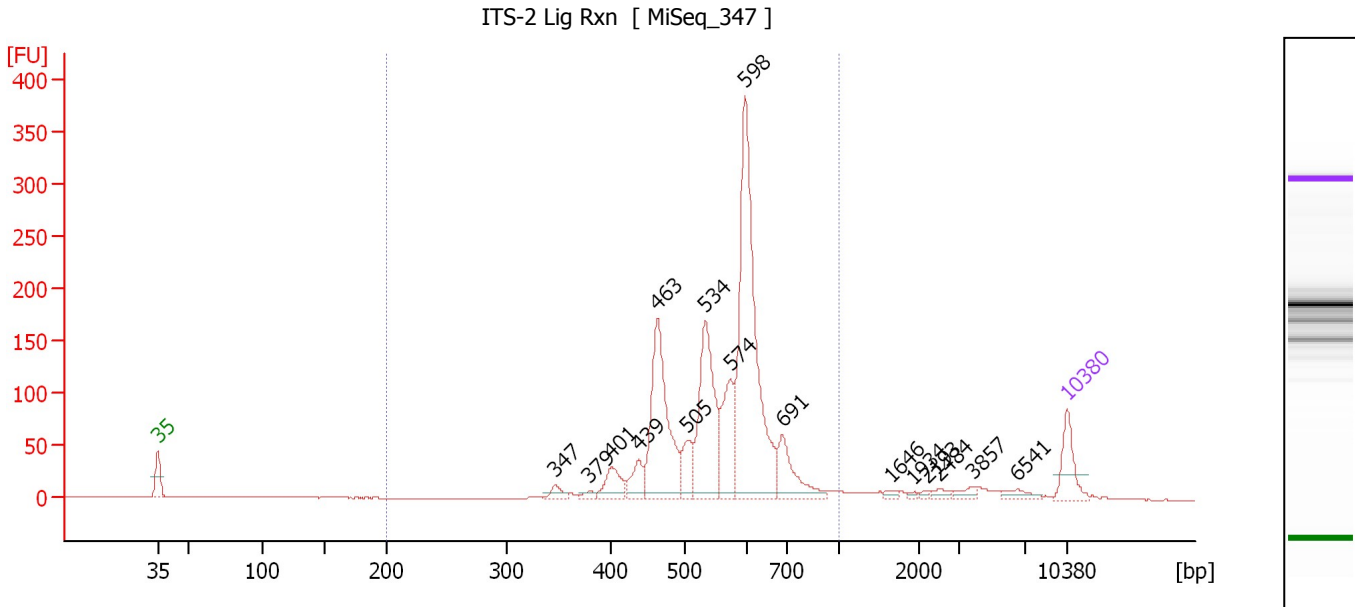
Region table for sample 7 : ITS-1 Lig Rxn

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	564	1,877.5	6,683.6	2,414.36	99	14.4

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Electropherogram Summary Continued ...



Overall Results for sample 8 : ITS-2 Lig Rxn

Number of peaks found: 16 Corr. Area 1: 1,639.2
 Noise: 0.2

Peak table for sample 8 : ITS-2 Lig Rxn

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	347	25.09	109.6		73.64
3	379	12.82	51.2		76.22
4	401	75.49	285.1		77.95
5	439	66.69	230.4		80.08
6	463	419.37	1,371.0		81.50
7	505	86.13	258.3		83.83
8	534	353.95	1,004.1		85.20
9	574	177.21	468.1		87.08
10	598	762.20	1,930.8		88.25
11	691	136.17	298.7		91.14
12	1,646	9.49	8.7		99.46
13	1,934	5.36	4.2		101.23
14	2,193	6.55	4.5		102.25
15	2,484	13.36	8.2		103.16
16	3,857	17.40	6.8		105.85
17	6,541	22.35	5.2		109.20
18	10,380	75.00	10.9	Upper Marker	113.00

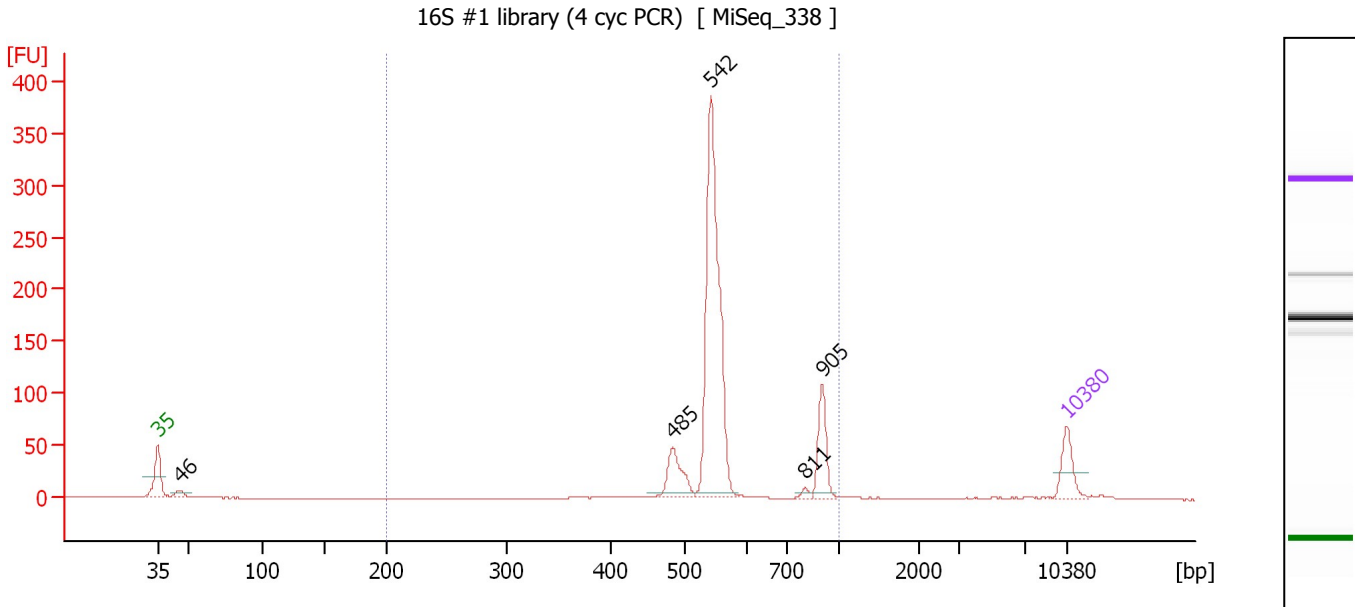
Region table for sample 8 : ITS-2 Lig Rxn

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	561	1,639.2	5,993.6	2,140.10	92	16.3

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 16S #1 library (4 cyc PCR)

Number of peaks found: 5 Corr. Area 1: 718.0
 Noise: 0.1

Peak table for sample 9 : 16S #1 library (4 cyc PCR)

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	46	32.12	1,060.1		44.73
3	485	132.50	414.3		82.70
4	542	866.06	2,419.2		85.60
5	811	11.75	21.9		92.92
6	905	127.16	212.8		94.19
7	10,380	75.00	10.9	Upper Marker	113.00

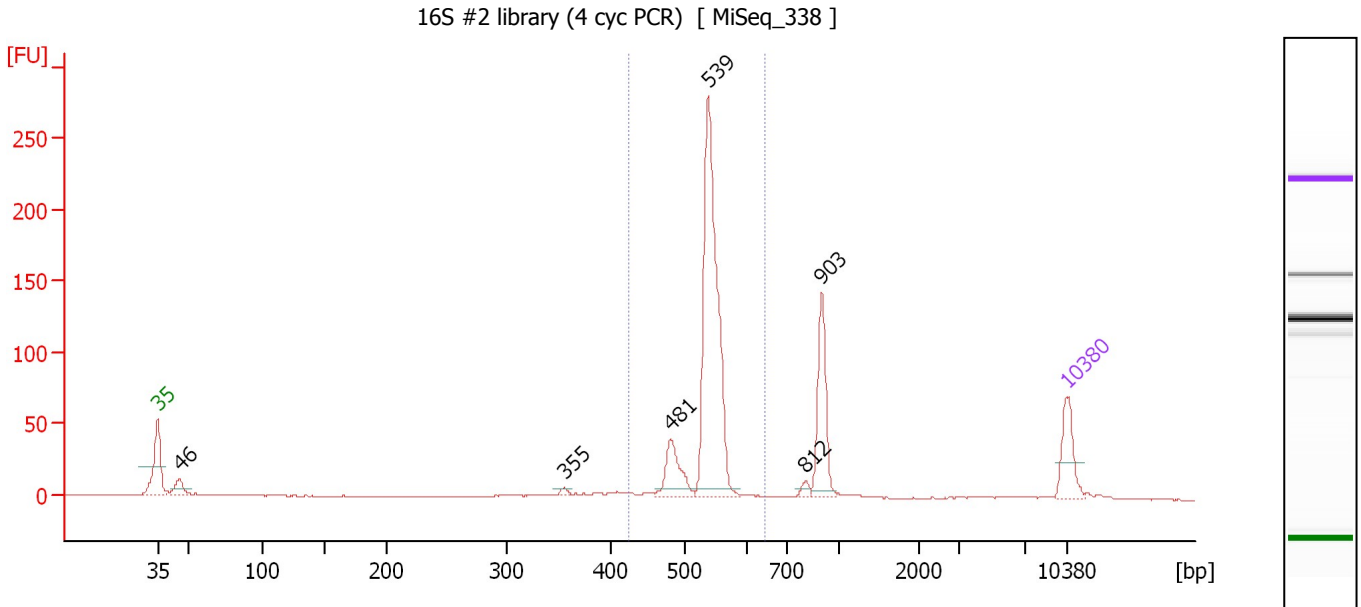
Region table for sample 9 : 16S #1 library (4 cyc PCR)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	590	718.0	3,223.2	1,196.87	93	22.1

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 16S #2 library (4 cyc PCR)

Number of peaks found: 6 Corr. Area 1: 470.4
 Noise: 0.2

Peak table for sample 10 : 16S #2 library (4 cyc PCR)

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	46	48.65	1,615.1		44.68
3	355	8.90	38.0		74.30
4	481	103.79	326.7		82.52
5	539	631.61	1,776.1		85.43
6	812	12.63	23.6		92.93
7	903	162.59	272.8		94.16
8	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 : 16S #2 library (4 cyc PCR)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
424	647	536	470.4	2,155.7	759.74	70	4.9

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Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-23\2016-05-23_002.xad

Created: 5/23/2016 12:45:44 PM
Modified: 5/23/2016 2:29:17 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-23\2016-05-23_002.xad

Created: 5/23/2016 12:45:44 PM
 Modified: 5/23/2016 2:29:17 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		5/23/2016 1:24:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-23\2016-05-23_002.xad)		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/23/2016 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1