

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad

Created: 1/20/2016 4:19:55 PM
Modified: 1/20/2016 5:04:14 PM

Electrophoresis File Run Summary

Instrument Information:

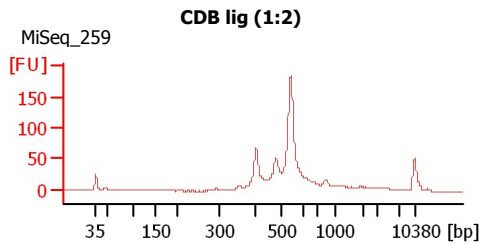
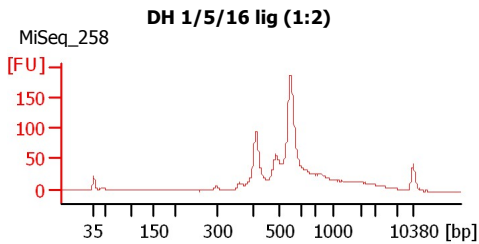
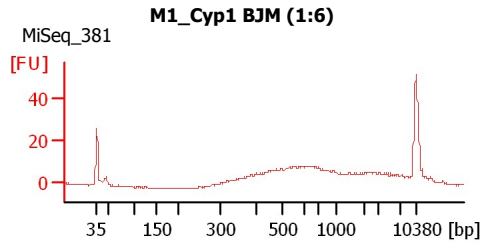
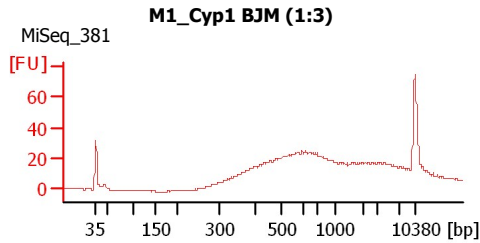
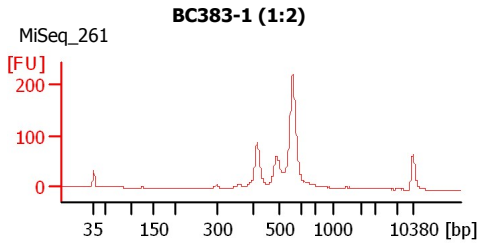
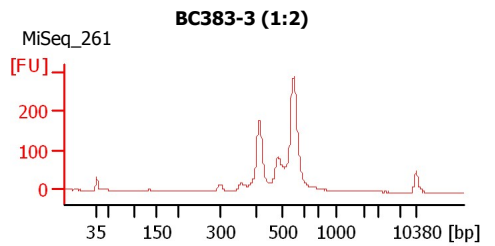
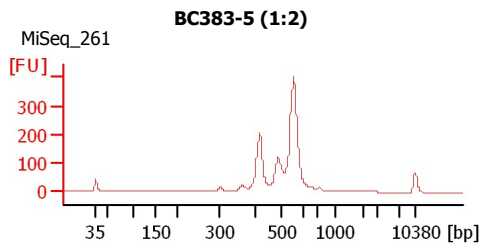
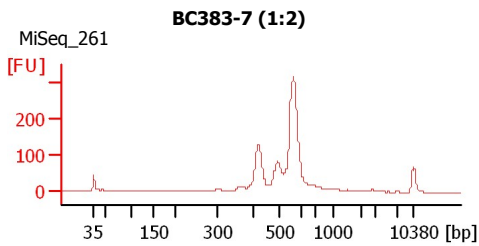
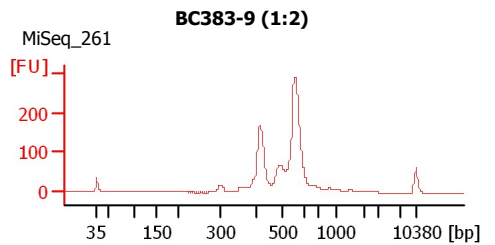
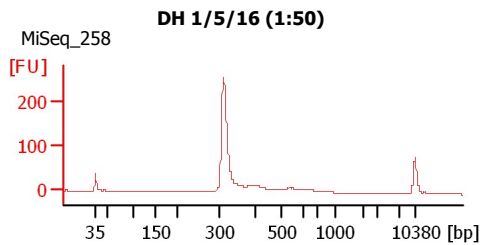
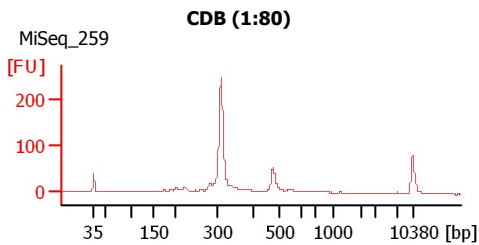
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
CDB (1:80)	MiSeq_259	<input type="checkbox"/>	✓			
DH 1/5/16 (1:50)	MiSeq_258	<input type="checkbox"/>	✓			
BC383-9 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-7 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-5 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-3 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
BC383-1 (1:2)	MiSeq_261	<input type="checkbox"/>	✓			
M1_Cyp1 BJM (1:3)	MiSeq_381	<input type="checkbox"/>	✓			
M1_Cyp1 BJM (1:6)	MiSeq_381	<input type="checkbox"/>	✓			
DH 1/5/16 lig (1:2)	MiSeq_258	<input type="checkbox"/>	✓			
CDB lig (1:2)	MiSeq_259	<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

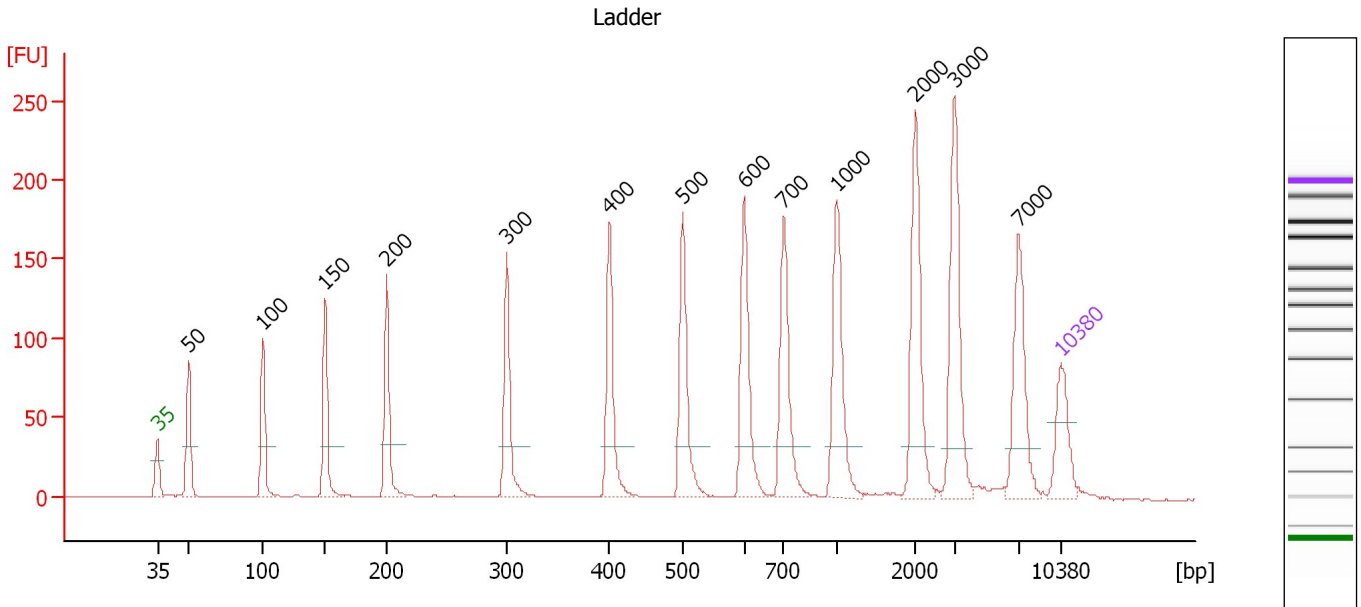
Ladder

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

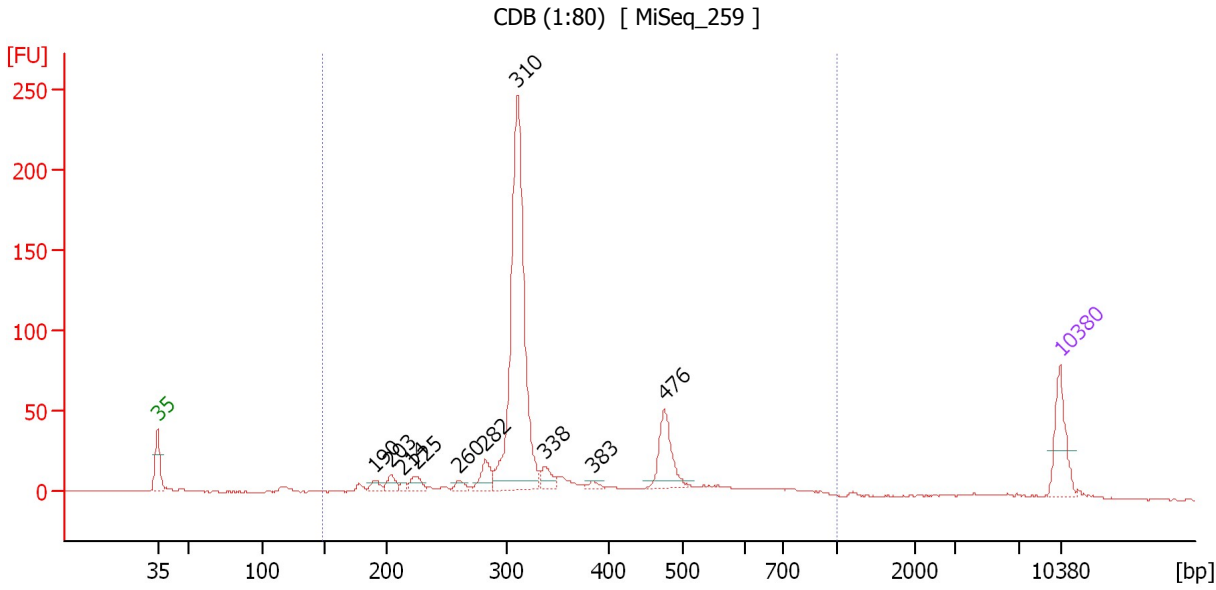
Peak table for Ladder

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.19
4	150	150.00	1,515.2	Ladder Peak	56.01
5	200	150.00	1,136.4	Ladder Peak	60.78
6	300	150.00	757.6	Ladder Peak	70.09
7	400	150.00	568.2	Ladder Peak	78.05
8	500	150.00	454.5	Ladder Peak	83.71
9	600	150.00	378.8	Ladder Peak	88.48
10	700	150.00	324.7	Ladder Peak	91.57
11	1,000	150.00	227.3	Ladder Peak	95.64
12	2,000	150.00	113.6	Ladder Peak	101.77
13	3,000	150.00	75.8	Ladder Peak	104.81
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 : CDB (1:80)

Number of peaks found: 10 Corr. Area 1: 781.8
 Noise: 0.2

Peak table for sample 1 : CDB (1:80)

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	190	18.52	147.7		59.83
3	203	24.22	180.4		61.10
4	214	8.92	63.3		62.04
5	225	27.30	183.8		63.12
6	260	14.32	83.3		66.41
7	282	44.52	239.0		68.43
8	310	709.24	3,461.3		70.92
9	338	31.96	143.4		73.09
10	383	10.08	39.9		76.71
11	476	104.61	333.0		82.35
12	10,380	75.00	10.9	Upper Marker	113.00

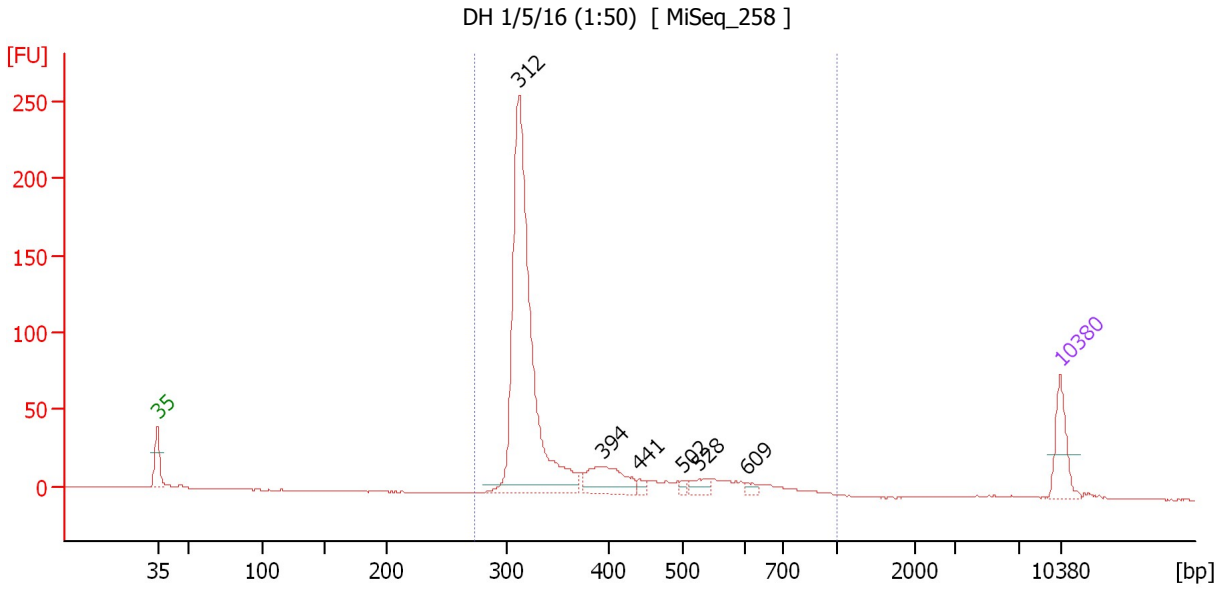
Region table for sample 1 : CDB (1:80)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
147	1,000	360	781.8	6,107.7	1,292.19	95	33.3

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Electropherogram Summary Continued ...



Overall Results for sample 2 : DH 1/5/16 (1:50)

Number of peaks found: 6 Corr. Area 1: 808.2
 Noise: 0.2

Peak table for sample 2 : DH 1/5/16 (1:50)

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	312	1,045.45	5,076.9		71.05
3	394	123.44	474.9		77.56
4	441	12.53	43.1		80.36
5	502	11.70	35.4		83.78
6	528	28.07	80.5		85.05
7	609	13.59	33.8		88.75
8	10,380	75.00	10.9	Upper Marker	113.00

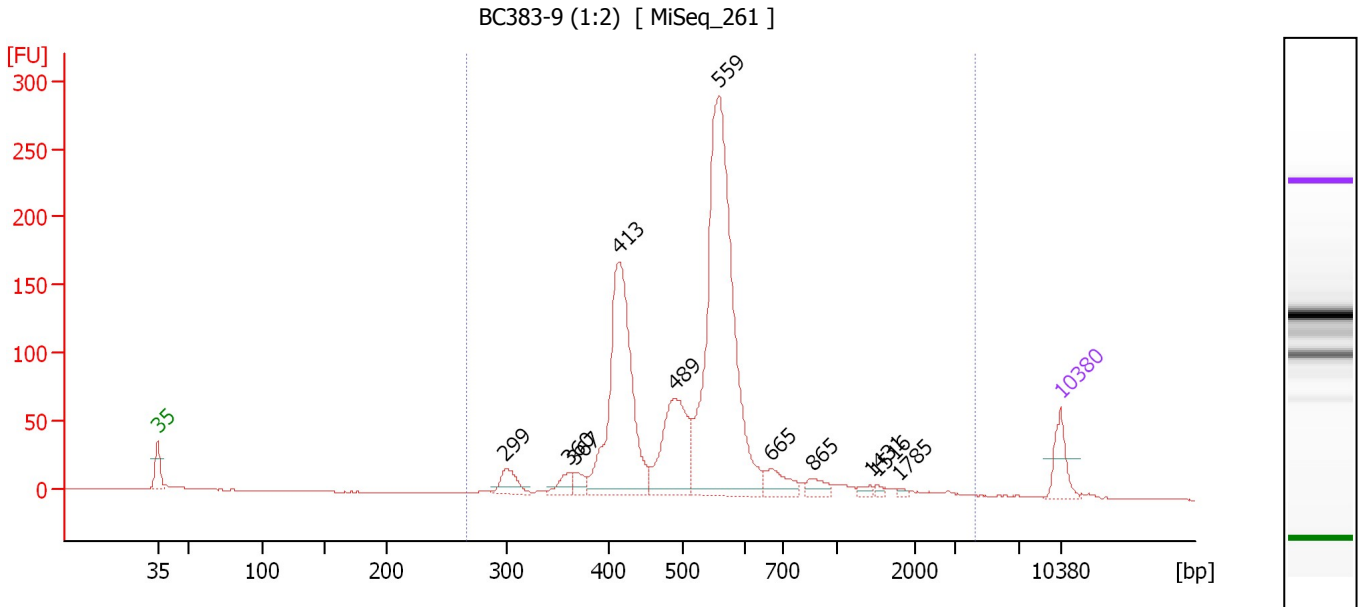
Region table for sample 2 : DH 1/5/16 (1:50)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
272	1,000	372	808.2	5,787.9	1,322.54	98	28.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : BC383-9 (1:2)

Number of peaks found: 11 Corr. Area 1: 1,685.0
 Noise: 0.2

Peak table for sample 3 : BC383-9 (1:2)

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	299	80.64	408.9		69.98
3	360	44.72	188.4		74.84
4	367	39.63	163.7		75.41
5	413	786.92	2,884.6		78.80
6	489	355.20	1,100.2		83.09
7	559	1,338.45	3,626.0		86.54
8	665	80.54	183.4		90.50
9	865	38.25	67.0		93.80
10	1,431	12.94	13.7		98.28
11	1,516	9.26	9.3		98.80
12	1,785	8.04	6.8		100.45
13	10,380	75.00	10.9	Upper Marker	113.00

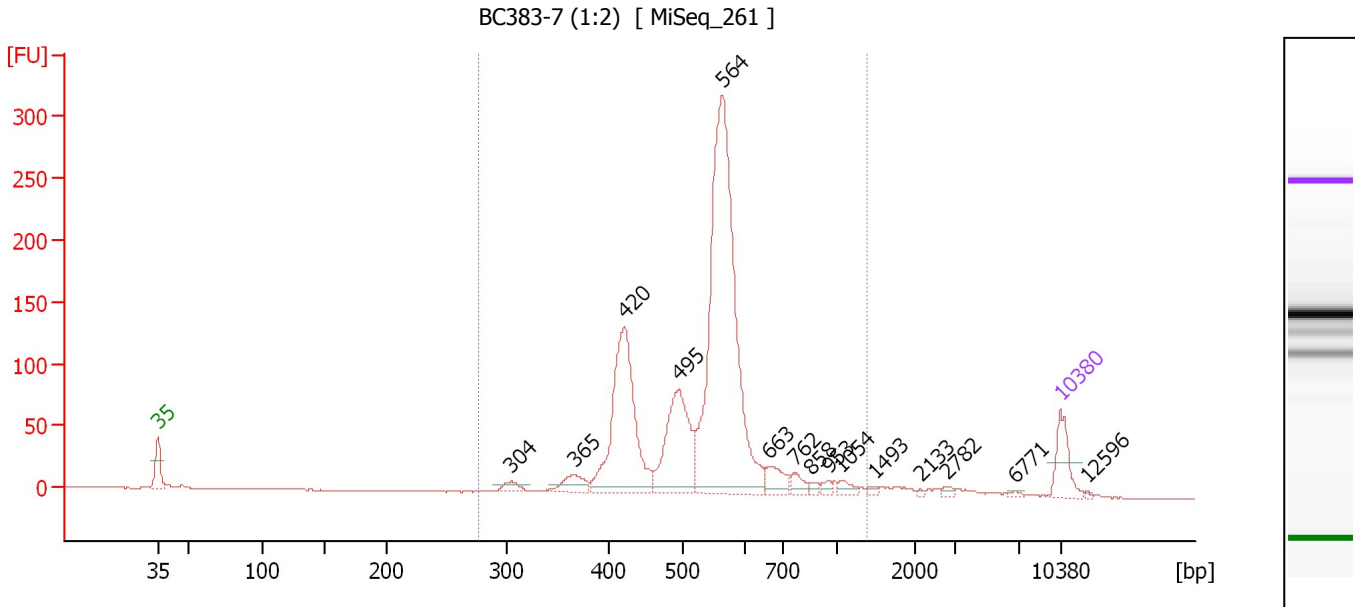
Region table for sample 3 : BC383-9 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
266	4,304	569	1,685.0	8,601.9	2,843.31	98	54.0

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Electropherogram Summary Continued ...



Overall Results for sample 4 : BC383-7 (1:2)

Number of peaks found: 15 Corr. Area 1: 1,590.2
 Noise: 0.2

Peak table for sample 4 : BC383-7 (1:2)

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	304	25.81	128.6		70.42
3	365	58.04	240.8		75.28
4	420	519.10	1,872.7		79.18
5	495	319.88	979.6		83.41
6	564	1,198.11	3,216.6		86.78
7	663	59.19	135.2		90.44
8	762	29.00	57.7		92.41
9	858	12.07	21.3		93.71
10	953	14.98	23.8		95.01
11	1,054	20.41	29.4		95.97
12	1,493	7.93	8.1		98.66
13	2,133	3.39	2.4		102.18
14	2,782	8.89	4.8		104.15
15	6,771	4.93	1.1		109.49
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,596	0.00	0.0		115.12

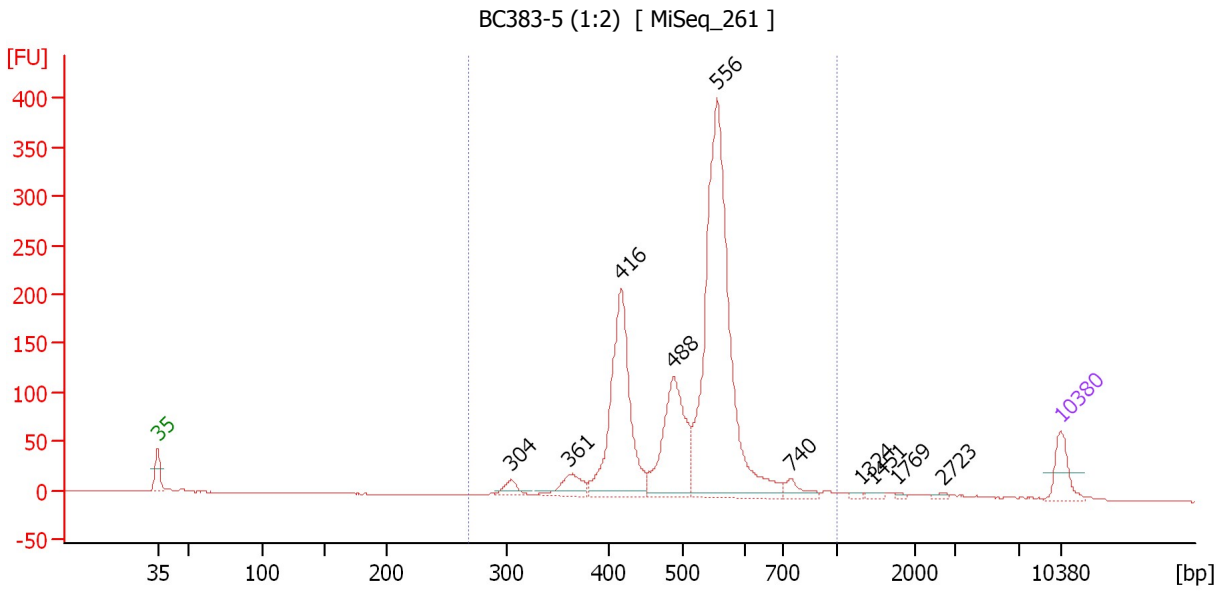
Region table for sample 4 : BC383-7 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
277	1,382	541	1,590.2	6,818.8	2,303.43	94	23.2

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Electropherogram Summary Continued ...



Overall Results for sample 5 : BC383-5 (1:2)

Number of peaks found: 10 Corr. Area 1: 1,911.8
 Noise: 0.1

Peak table for sample 5 : BC383-5 (1:2)

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	304	46.15	229.8		70.43
3	361	88.18	370.3		74.92
4	416	652.36	2,373.6		78.98
5	488	433.71	1,346.7		83.03
6	556	1,356.59	3,694.8		86.40
7	740	43.60	89.3		92.11
8	1,324	6.73	7.7		97.62
9	1,451	11.71	12.2		98.40
10	1,769	5.82	5.0		100.36
11	2,723	8.12	4.5		103.97
12	10,380	75.00	10.9	Upper Marker	113.00

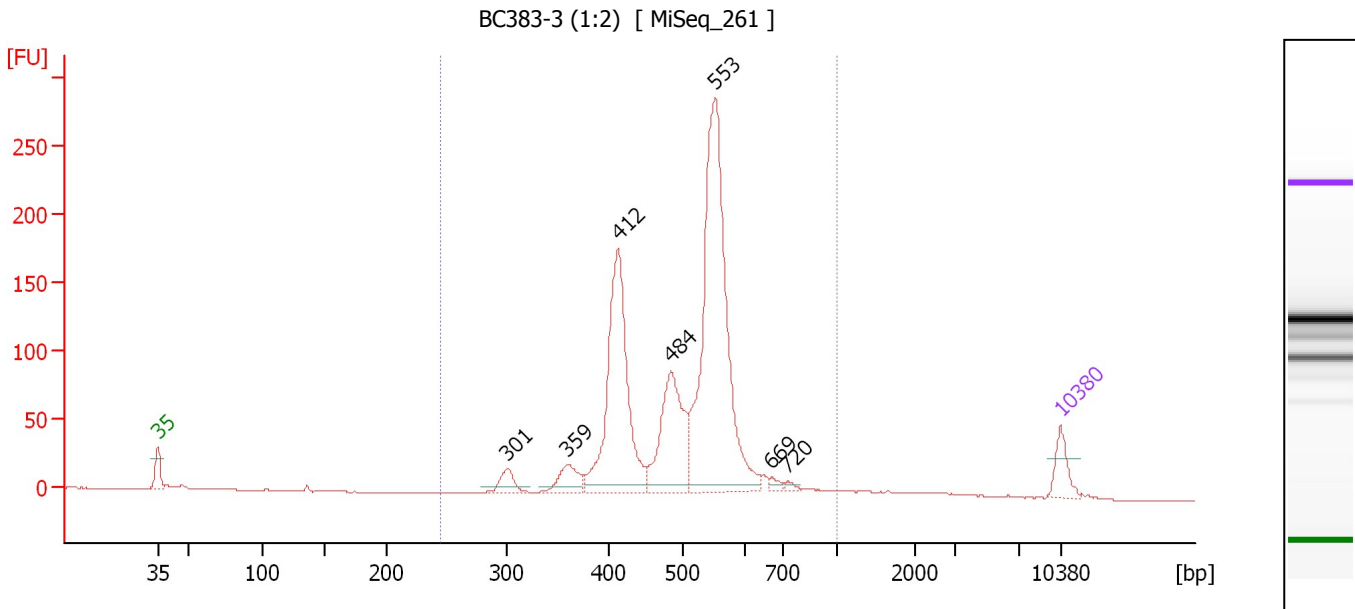
Region table for sample 5 : BC383-5 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
268	1,000	514	1,911.8	8,050.8	2,625.19	95	17.2

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Electropherogram Summary Continued ...



Overall Results for sample 6 : BC383-3 (1:2)

Number of peaks found: 7 Corr. Area 1: 1,501.5
 Noise: 0.2

Peak table for sample 6 : BC383-3 (1:2)

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	301	80.47	405.6		70.14
3	359	108.20	456.6		74.79
4	412	852.76	3,134.0		78.74
5	484	458.17	1,434.7		82.80
6	553	1,398.84	3,830.1		86.26
7	669	19.12	43.3		90.61
8	720	14.02	29.5		91.84
9	10,380	75.00	10.9	Upper Marker	113.00

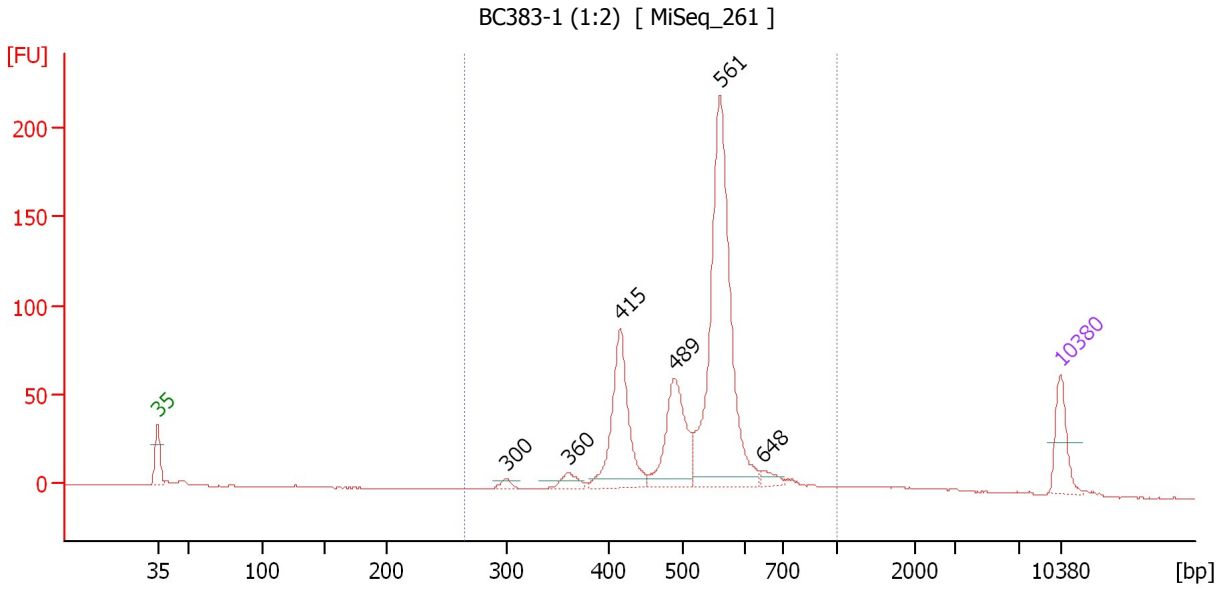
Region table for sample 6 : BC383-3 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
245	1,000	503	1,501.5	9,727.0	3,093.17	96	18.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : BC383-1 (1:2)

Number of peaks found: 6 Corr. Area 1: 875.2
 Noise: 0.2

Peak table for sample 7 : BC383-1 (1:2)

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	15.45	78.1		70.07
3	360	32.97	138.9		74.84
4	415	292.04	1,065.9		78.90
5	489	230.49	714.5		83.07
6	561	724.98	1,956.8		86.64
7	648	21.45	50.2		89.95
8	10,380	75.00	10.9	Upper Marker	113.00

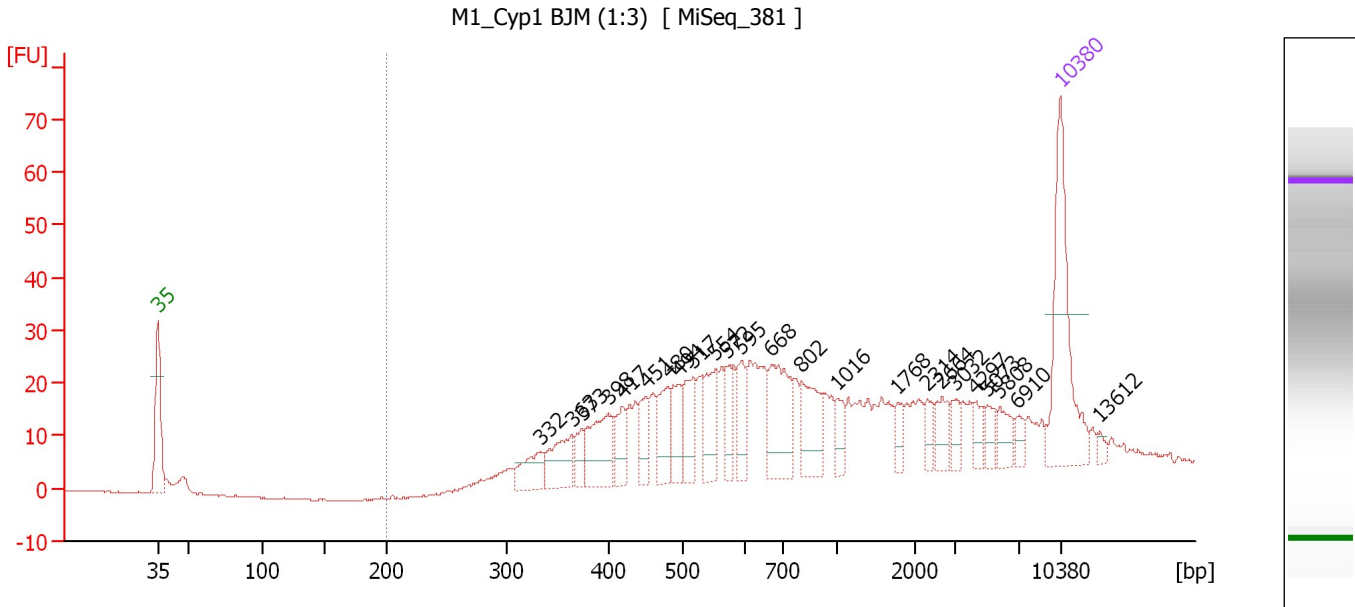
Region table for sample 7 : BC383-1 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
265	1,000	525	875.2	4,352.9	1,449.37	93	17.2

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Electropherogram Summary Continued ...



Overall Results for sample 8 : M1_Cyp1 BJM (1:3)

Number of peaks found: 24 Corr. Area 1: 819.6
 Noise: 0.1

Peak table for sample 8 : M1_Cyp1 BJM (1:3)

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	26.19	119.4		72.66
3	363	34.53	143.9		75.14
4	373	14.67	59.6		75.90
5	398	44.33	168.6		77.92
6	417	20.55	74.6		79.04
7	451	20.46	68.8		80.91
8	480	27.48	86.7		82.58
9	494	26.95	82.6		83.39
10	517	27.45	80.5		84.50
11	554	32.25	88.2		86.28
12	572	20.49	54.3		87.14
13	595	23.05	58.7		88.25
14	668	54.62	123.9		90.58
15	802	35.80	67.6		92.96
16	1,016	11.02	16.4		95.74
17	1,768	8.71	7.5		100.35
18	2,314	8.49	5.6		102.73
19	2,664	15.45	8.8		103.79
20	3,032	8.91	4.5		104.85
21	4,297	10.00	3.5		106.42
22	5,073	8.94	2.7		107.38
23	5,808	13.43	3.5		108.29
24	6,910	6.72	1.5		109.66
25	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...**... Peak table for sample 8 : M1_Cyp1_BJM (1:3)**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,612	0.00	0.0		116.09

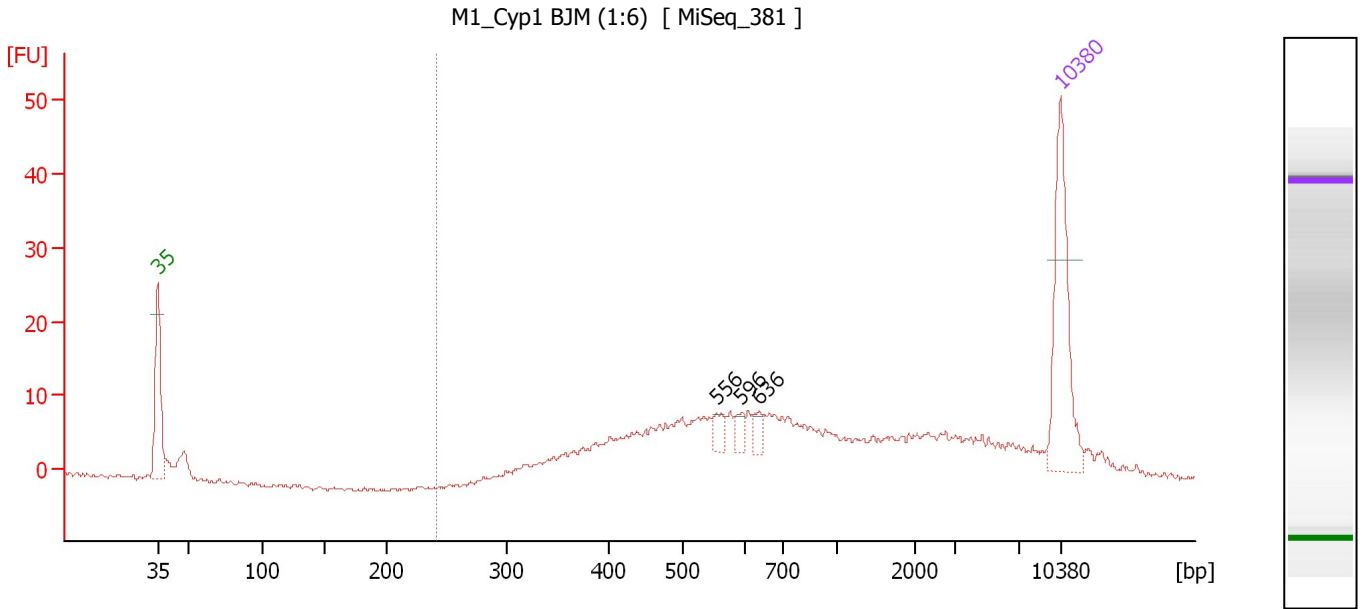
Region table for sample 8 : M1_Cyp1_BJM (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	34,323	4,768	819.6	2,152.9	978.86	99	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 9 : M1_Cyp1 BJM (1:6)

Number of peaks found: 3 Corr. Area 1: 337.1
 Noise: 0.3

Peak table for sample 9 : M1_Cyp1 BJM (1:6)

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	556	10.30	28.1		86.40
3	596	8.58	21.8		88.27
4	636	9.01	21.5		89.58
5	10,380	75.00	10.9	Upper Marker	113.00

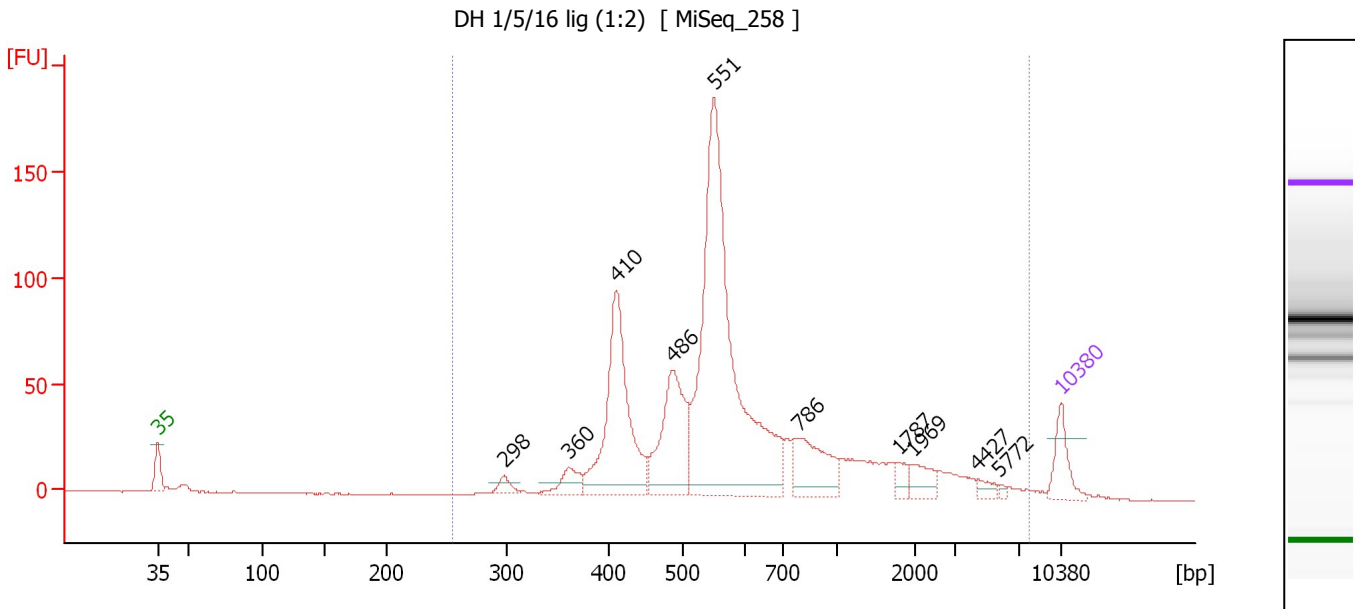
Region table for sample 9 : M1_Cyp1 BJM (1:6)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
241	29,763	5,050	337.1	1,257.3	590.39	97	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad

Created: 1/20/2016 4:19:55 PM
 Modified: 1/20/2016 5:04:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DH 1/5/16 lig (1:2)

Number of peaks found: 10 Corr. Area 1: 1,286.5
 Noise: 0.2

Peak table for sample 10 : DH 1/5/16 lig (1:2)

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	298	33.09	168.4		69.89
3	360	66.10	278.0		74.89
4	410	529.37	1,954.7		78.63
5	486	342.98	1,068.8		82.93
6	551	1,244.01	3,418.2		86.16
7	786	183.53	353.9		92.73
8	1,787	29.04	24.6		100.47
9	1,969	50.54	38.9		101.58
10	4,427	20.10	6.9		106.58
11	5,772	6.56	1.7		108.25
12	10,380	75.00	10.9	Upper Marker	113.00

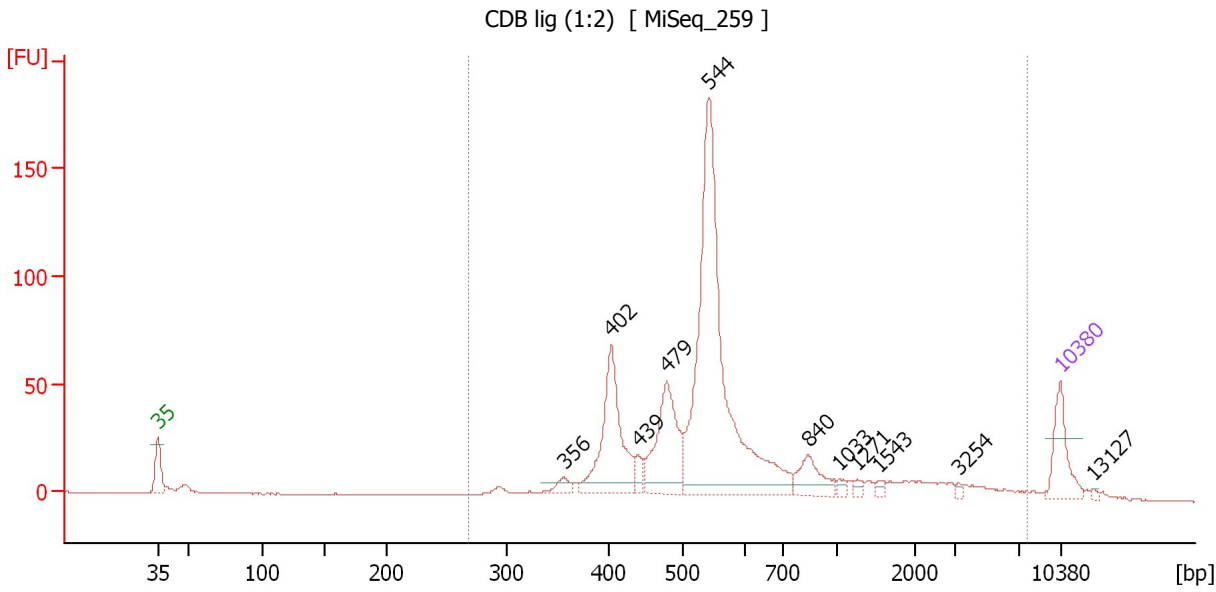
Region table for sample 10 : DH 1/5/16 lig (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
254	7,935	866	1,286.5	7,413.2	2,743.36	99	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad

Created: 1/20/2016 4:19:55 PM
 Modified: 1/20/2016 5:04:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CDB lig (1:2)

Number of peaks found: 11 Corr. Area 1: 933.8
 Noise: 0.2

Peak table for sample 11 : CDB lig (1:2)

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	356	23.13	98.5		74.54
3	402	266.30	1,002.9		78.18
4	439	27.67	95.5		80.25
5	479	220.40	697.2		82.52
6	544	834.94	2,326.5		85.80
7	840	68.77	124.0		93.47
8	1,033	10.48	15.4		95.84
9	1,271	8.54	10.2		97.30
10	1,543	9.43	9.3		98.97
11	3,254	5.58	2.6		105.13
12	10,380	75.00	10.9	Upper Marker	113.00
13	13,127	0.00	0.0		115.62

Region table for sample 11 : CDB lig (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
267	7,629	803	933.8	4,701.4	1,669.18	97	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad

Created: 1/20/2016 4:19:55 PM
Modified: 1/20/2016 5:04:14 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad

Created: 1/20/2016 4:19:55 PM
 Modified: 1/20/2016 5:04:14 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		1/20/2016 5:01:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-20\2016-01-20_003.xad)		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/20/2016 4:20:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1