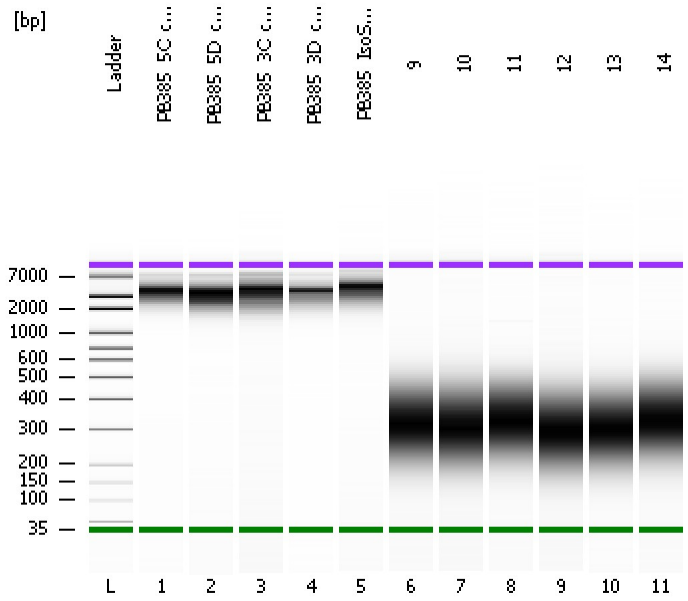
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701287 Firmware: C.01.069
Serial#: DE13701287 Type: G2938B

Assay Information:

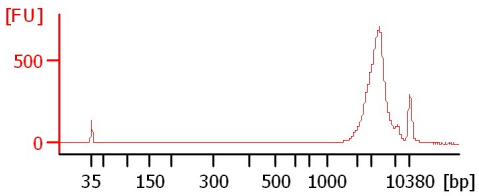
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

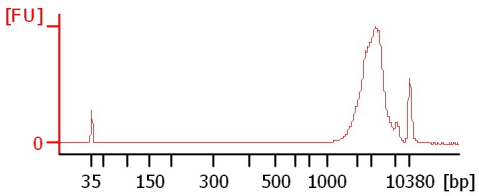
Chip Information:

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

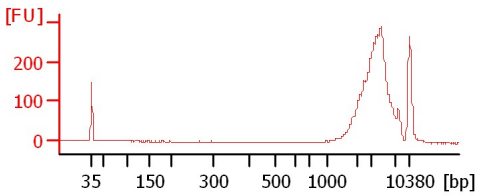
PB385_5C_cDNA_PCR15



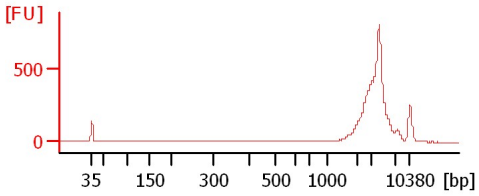
PB385_5D_cDNA_PCR15



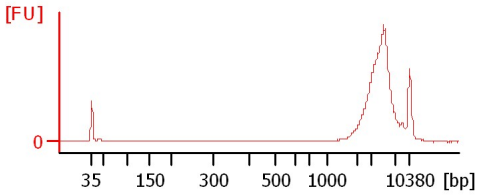
PB385_3C_cDNA_PCR15



PB385_3D_cDNA_PCR15



PB385_IsoSeq_Lib



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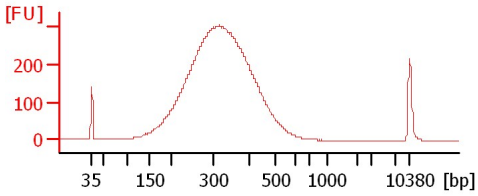

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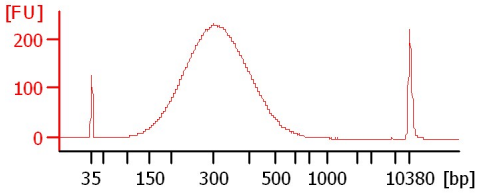
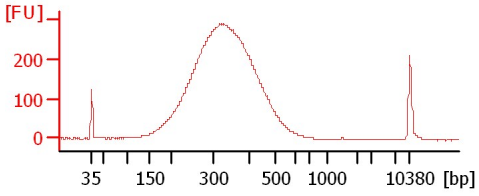


11



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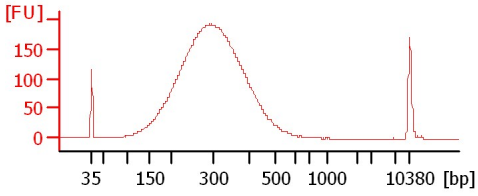

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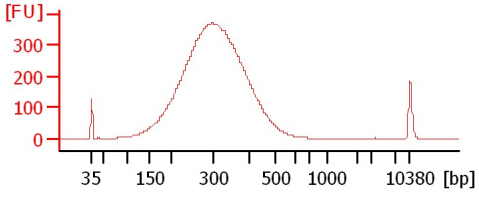

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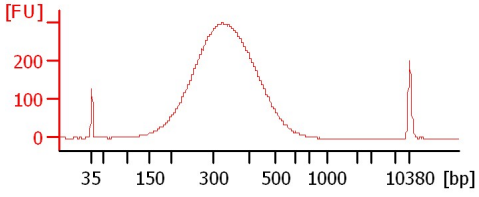


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PB385_5C_cDNA_PCR15		☐	✔			
PB385_5D_cDNA_PCR15		☐	✔			
PB385_3C_cDNA_PCR15		☐	✔			
PB385_3D_cDNA_PCR15		☐	✔			
PB385_IsoSeq_Lib		☐	✔			
9		☐	✔			
10		☐	✔			
11		☐	✔			
12		☐	✔			
13		☐	✔			
14		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 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

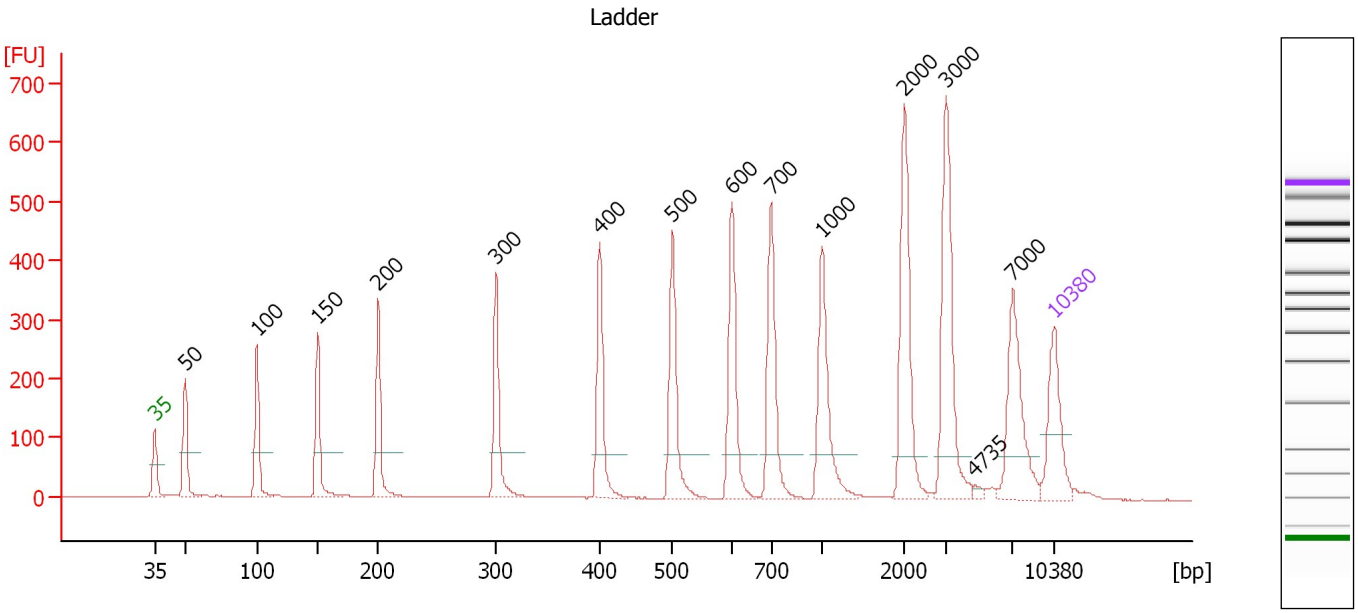
Ladder

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:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.5

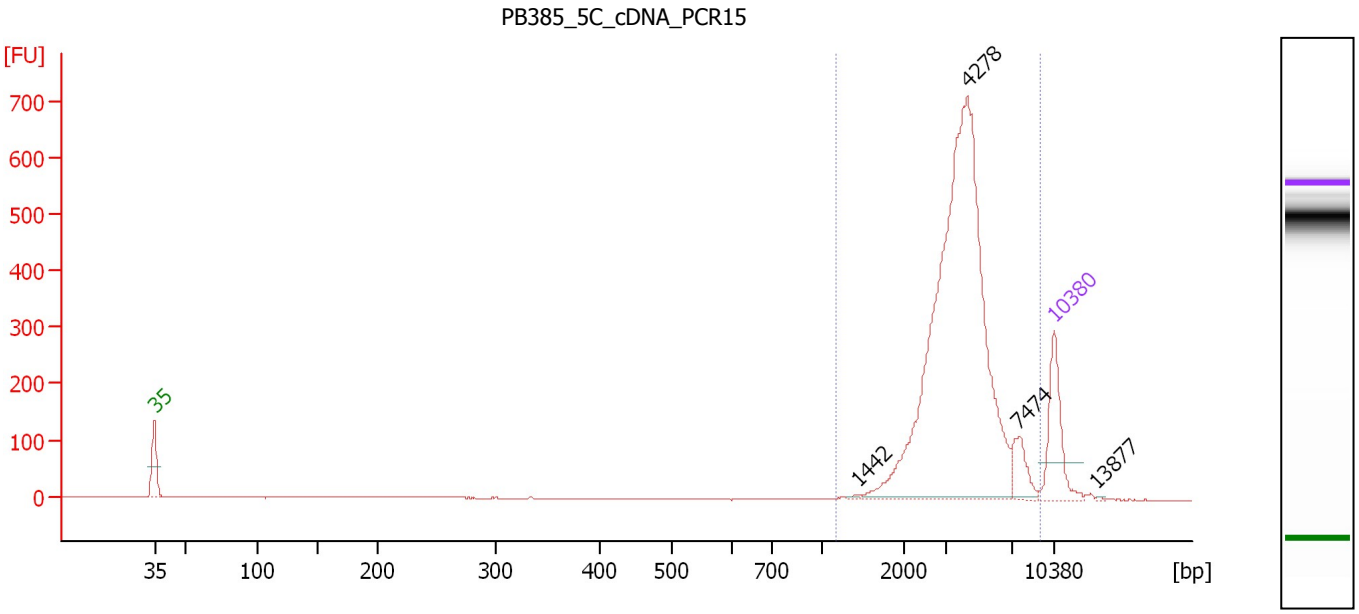
Peak table for Ladder

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	45.40
3		100	150.00	2,272.7	Ladder Peak	50.97
4		150	150.00	1,515.2	Ladder Peak	55.67
5		200	150.00	1,136.4	Ladder Peak	60.42
6		300	150.00	757.6	Ladder Peak	69.59
7		400	150.00	568.2	Ladder Peak	77.65
8		500	150.00	454.5	Ladder Peak	83.28
9		600	150.00	378.8	Ladder Peak	87.93
10		700	150.00	324.7	Ladder Peak	90.97
11		1,000	150.00	227.3	Ladder Peak	94.94
12		2,000	150.00	113.6	Ladder Peak	101.34
13		3,000	150.00	75.8	Ladder Peak	104.57
14		4,735	0.00	0.0		106.82
15		7,000	150.00	32.5	Ladder Peak	109.77
16		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : PB385_5C_cDNA_PCR15

Number of peaks found:	4	Corr. Area 1:	3,041.7
Noise:	0.5		

Peak table for sample 1 : PB385_5C_cDNA_PCR15

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	1,442	2.17	2.3		97.77
3	4,278	795.34	281.7		106.23
4	7,474	37.20	7.5		110.23
5	10,380	75.00	10.9	Upper Marker	113.00
6	13,877	0.00	0.0		116.34

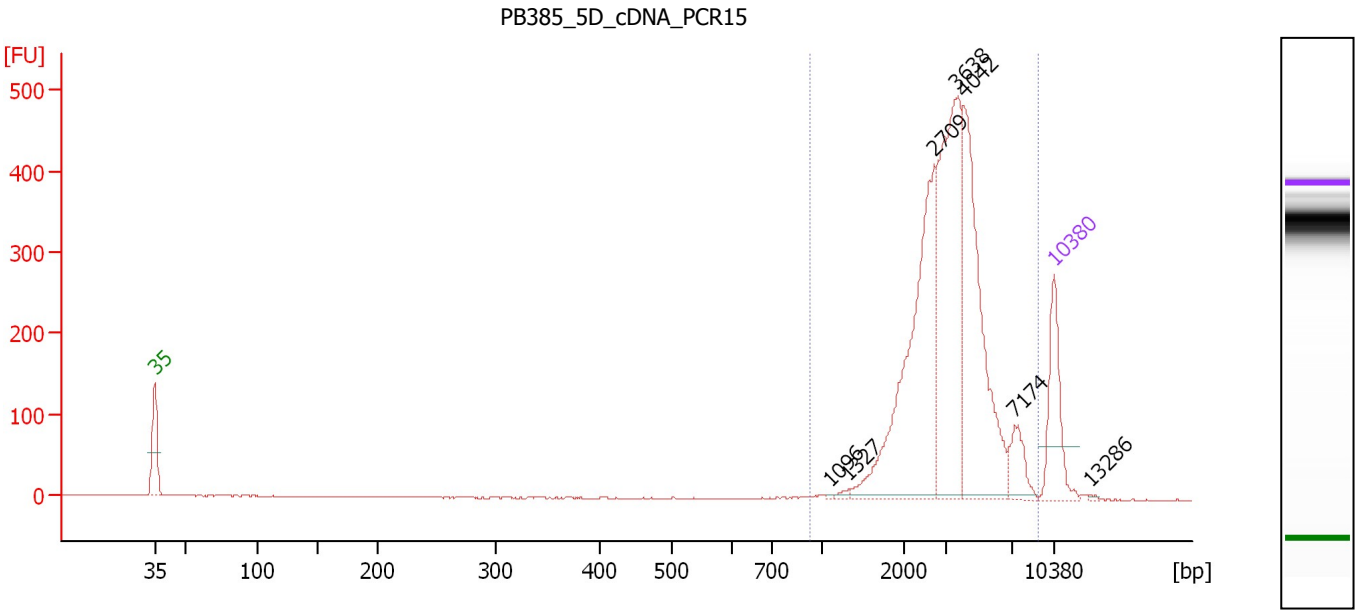
Region table for sample 1 : PB385_5C_cDNA_PCR15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
1,165	9,281	4,027	840.17	3,041.7	349.1	99	34.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : PB385_5D_cDNA_PCR15

Number of peaks found:	7	Corr. Area 1:	2,774.8
Noise:	0.5		

Peak table for sample 2 : PB385_5D_cDNA_PCR15

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	1,096	1.37	1.9		95.55
3	1,327	3.88	4.4		97.03
4	2,709	316.96	177.3		103.63
5	3,638	289.61	120.6		105.40
6	4,042	251.60	94.3		105.92
7	7,174	37.22	7.9		109.94
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,286	0.00	0.0		115.77

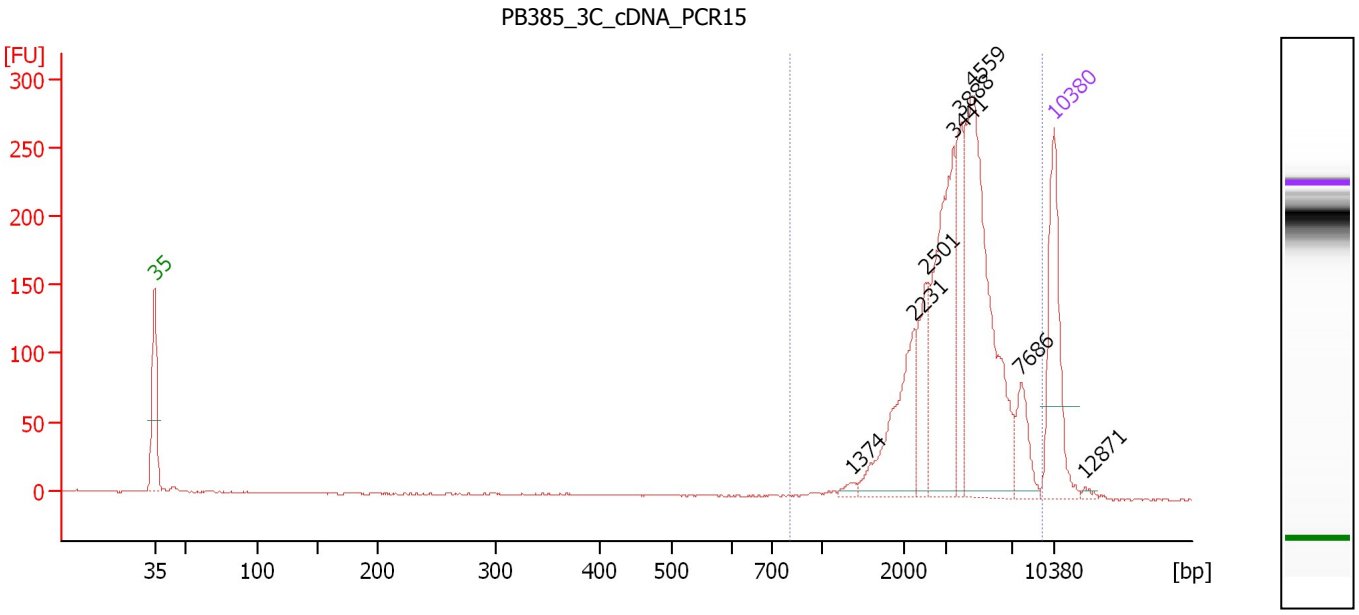
Region table for sample 2 : PB385_5D_cDNA_PCR15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
926	9,070	3,553	904.98	2,774.8	438.1	99	39.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PB385_3C_cDNA_PCR15

Number of peaks found:	8	Corr. Area 1:	1,699.4
Noise:	0.6		

Peak table for sample 3 : PB385_3C_cDNA_PCR15

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	1,374	4.58	5.1		97.33
3	2,231	77.94	52.9		102.09
4	2,501	45.07	27.3		102.96
5	3,441	132.96	58.5		105.14
6	3,888	55.84	21.8		105.72
7	4,559	203.58	67.7		106.60
8	7,686	27.51	5.4		110.43
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,871	0.00	0.0		115.38

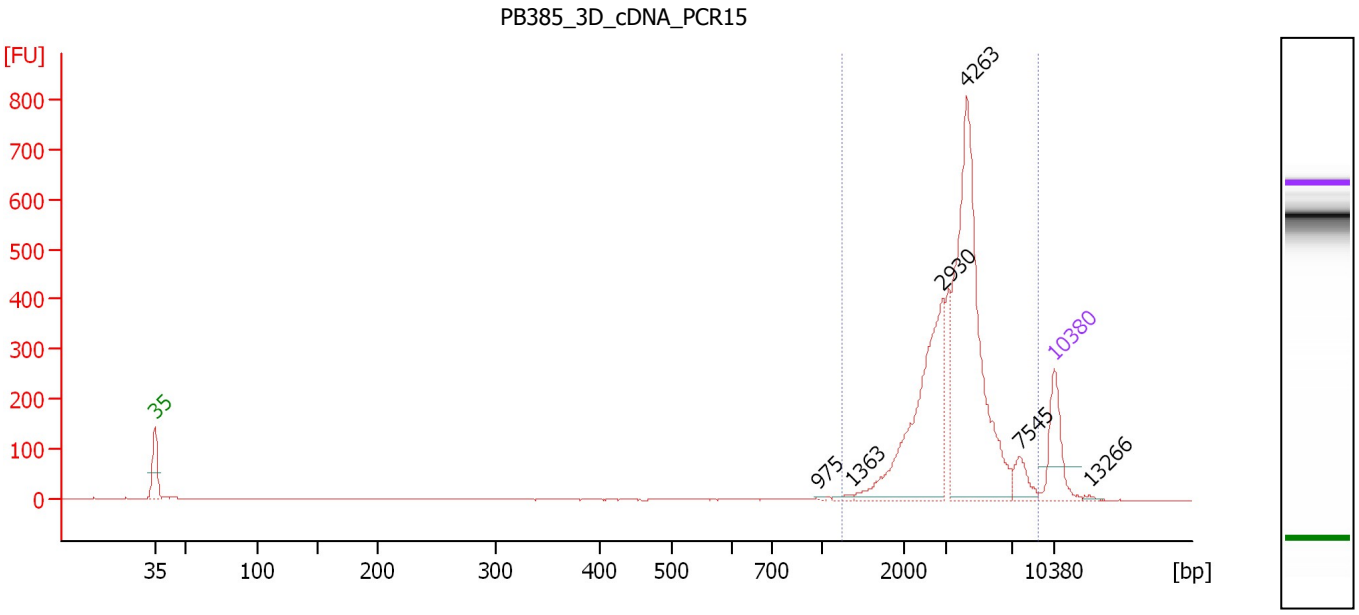
Region table for sample 3 : PB385_3C_cDNA_PCR15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
817	9,359	3,958	553.70	1,699.4	249.4	99	41.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : PB385_3D_cDNA_PCR15

Number of peaks found:	6	Corr. Area 1:	2,836.8
Noise:	0.6		

Peak table for sample 4 : PB385_3D_cDNA_PCR15

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	975	1.61	2.5		94.60
3	1,363	4.63	5.1		97.26
4	2,930	313.46	162.1		104.34
5	4,263	504.98	179.5		106.21
6	7,545	33.02	6.6		110.29
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,266	0.00	0.0		115.75

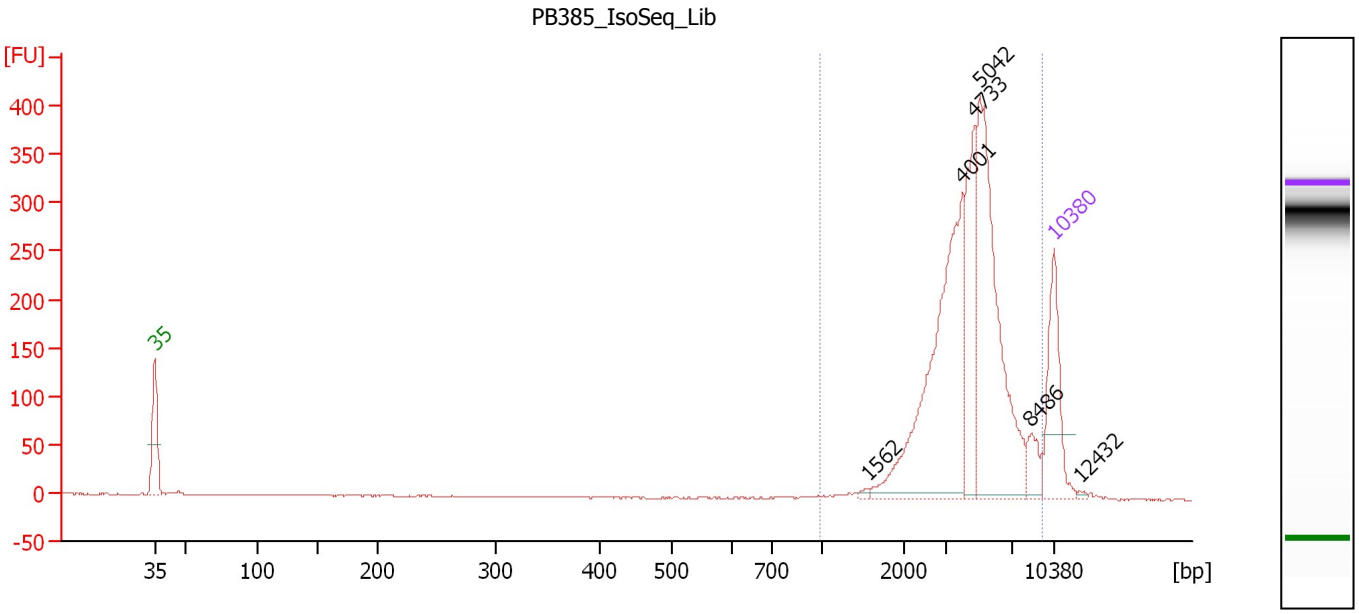
Region table for sample 4 : PB385_3D_cDNA_PCR15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
1,233	9,040	3,823	915.18	2,836.8	407.0	99	36.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : PB385_IsoSeq_Lib

Number of peaks found:	6	Corr. Area 1:	1,943.5
Noise:	0.5		

Peak table for sample 5 : PB385_IsoSeq_Lib

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	1,562	2.80	2.7		98.54
3	4,001	267.88	101.5		105.87
4	4,733	98.29	31.5		106.82
5	5,042	253.08	76.0		107.23
6	8,486	21.04	3.8		111.19
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,432	0.00	0.0		114.96

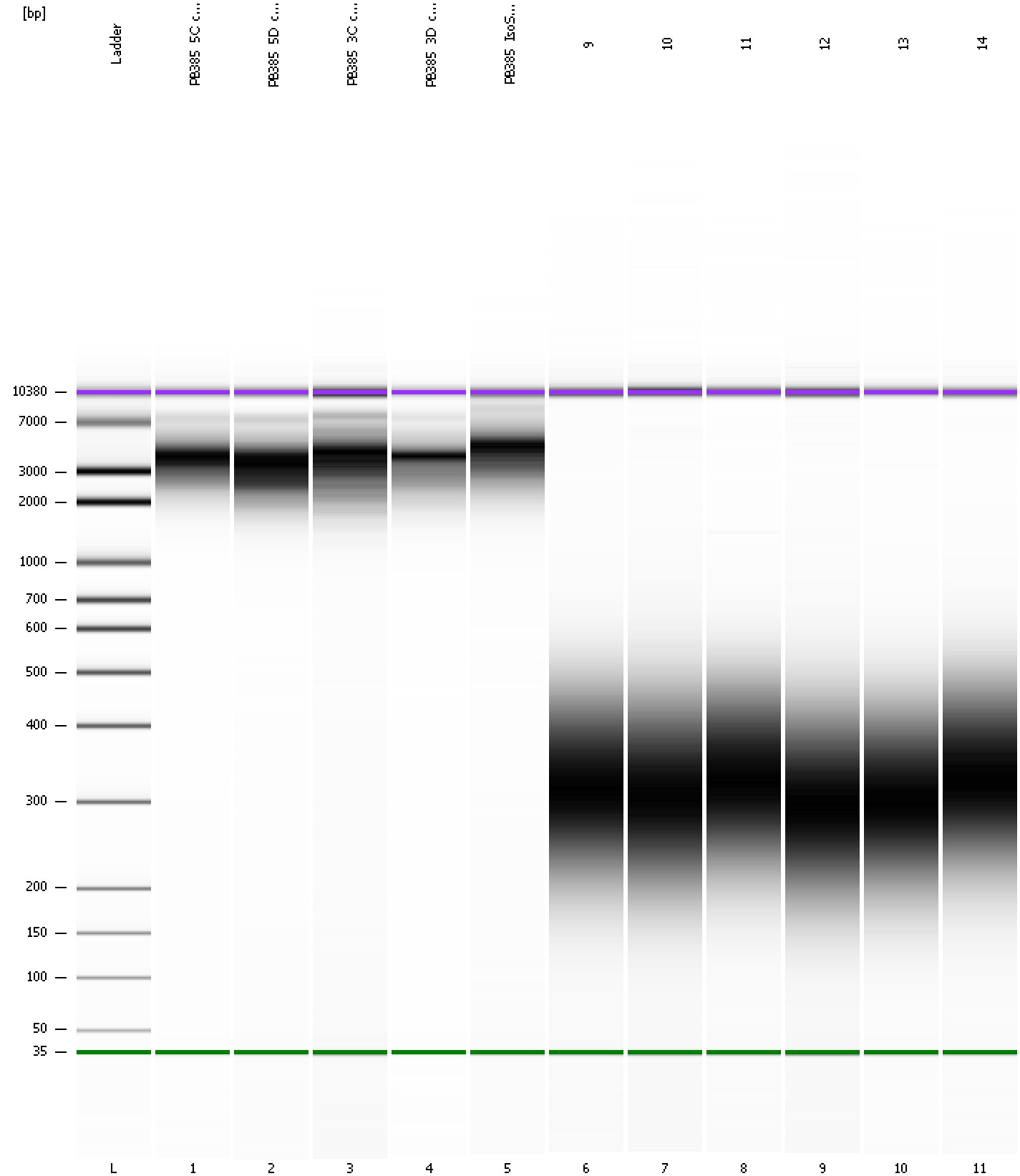
Region table for sample 5 : PB385_IsoSeq_Lib

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
985	9,333	4,479	648.20	1,943.5	247.9	99	36.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Davis\Desktop\High Sensitivity DNA Assay_2019-08-06_002.xad

Created: 8/6/2019 12:45:56 PM
Modified: 8/6/2019 4:01:41 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run Aborted after UI crashed on port 1		Instrument	Run		8/6/2019 1:41:17 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/6/2019 1:27:35 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-06\High Sensitivity DNA Assay_2019-08-06_002.xad)		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Product Number : G2938B		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Name :		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Vendor : Agilent Technologies		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Serial# : DE13701287		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Firmware : C.01.069		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS
Cartridge : Electrode		Instrument	Run		8/6/2019 12:46:02 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCRCS