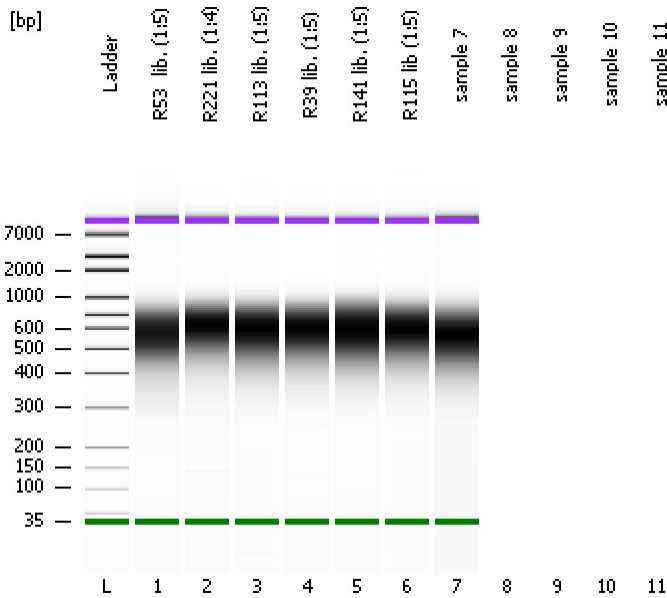


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
Modified: 9/8/2014 12:01:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

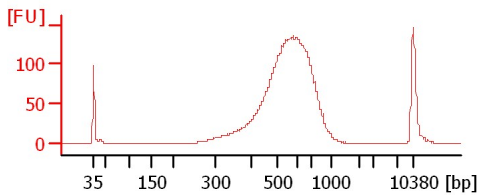
Assay Information:

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

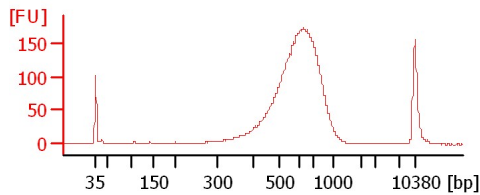
Chip Information:

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

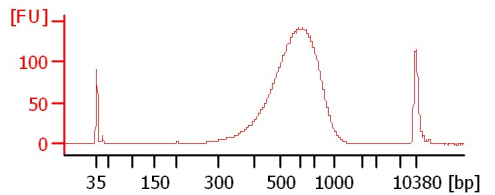
R53 lib. (1:5)



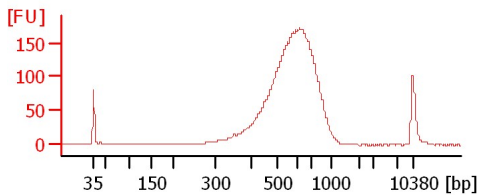
R221 lib. (1:4)



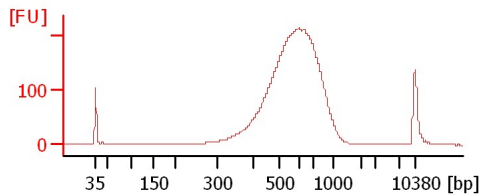
R113 lib. (1:5)



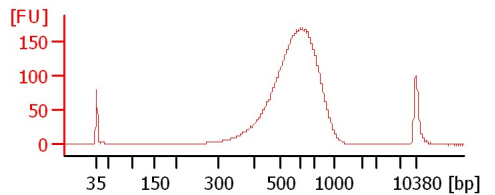
R39 lib. (1:5)



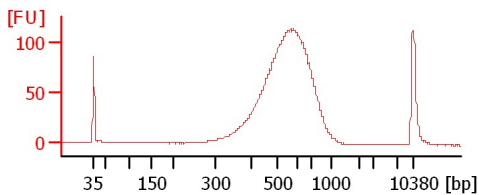
R141 lib. (1:5)



R115 lib (1:5)



sample 7



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
Modified: 9/8/2014 12:01:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
R53 lib. (1:5)		<input type="checkbox"/>	✓			
R221 lib. (1:4)		<input type="checkbox"/>	✓			
R113 lib. (1:5)		<input type="checkbox"/>	✓			
R39 lib. (1:5)		<input type="checkbox"/>	✓			
R141 lib. (1:5)		<input type="checkbox"/>	✓			
R115 lib (1:5)		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
Modified: 9/8/2014 12:01:56 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

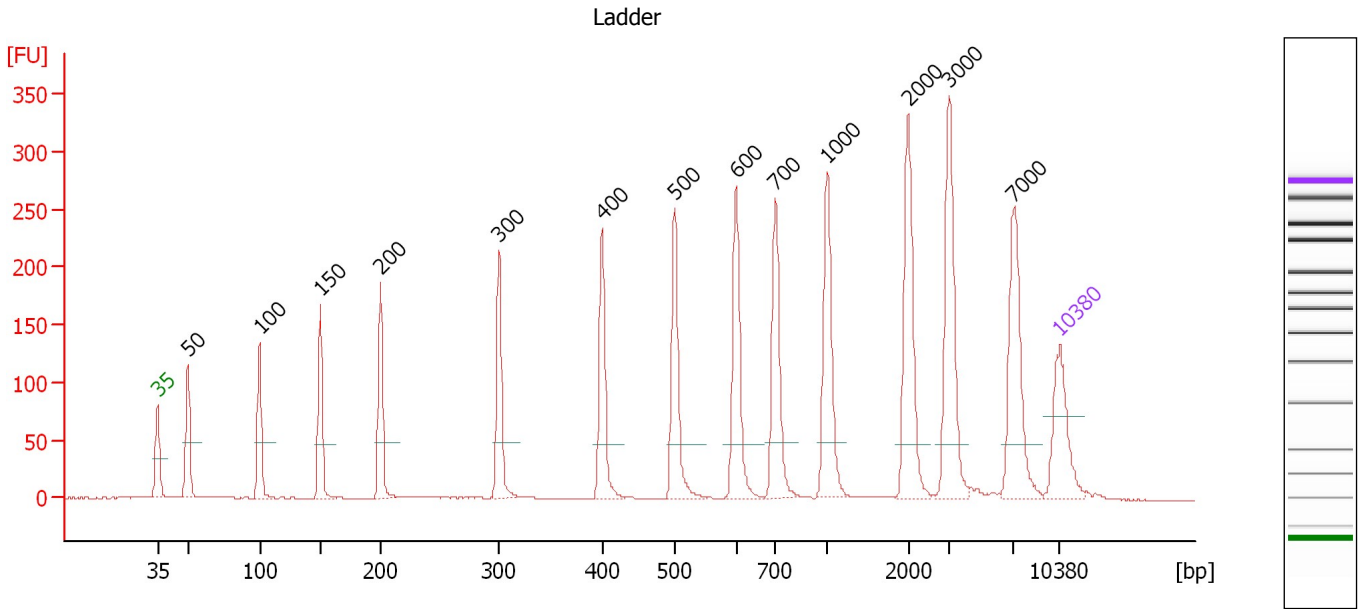
Ladder

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:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

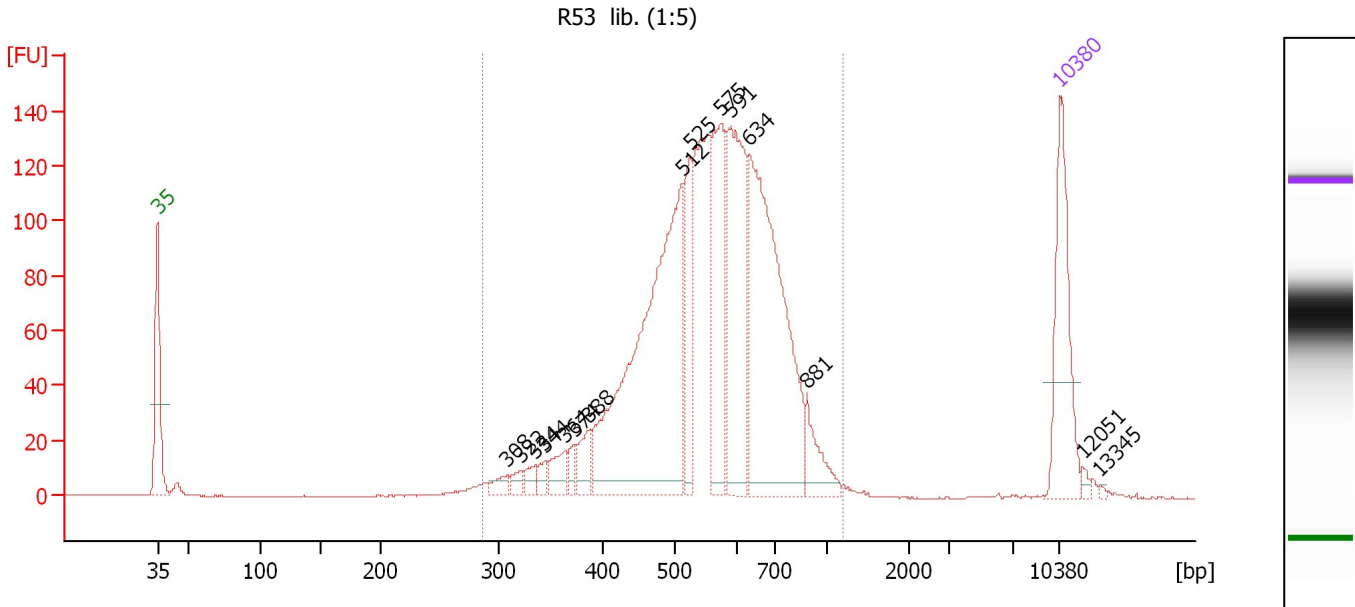
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : R53 lib. (1:5)

Number of peaks found: 15 Corr. Area 1: 1,980.1
 Noise: 0.2

Peak table for sample 1 : R53 lib. (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	308	9.95	49.0	
3	322	8.45	39.8	
4	334	9.47	42.9	
5	344	9.22	40.6	
6	364	20.63	85.8	
7	374	9.49	38.5	
8	388	21.64	84.5	
9	512	355.26	1,051.1	
10	525	63.68	183.7	
11	575	114.08	300.4	
12	591	159.01	407.6	
13	634	267.21	638.6	
14	881	30.47	52.4	
15	10,380	75.00	10.9	Upper Marker
16	12,051	0.00	0.0	
17	13,345	0.00	0.0	

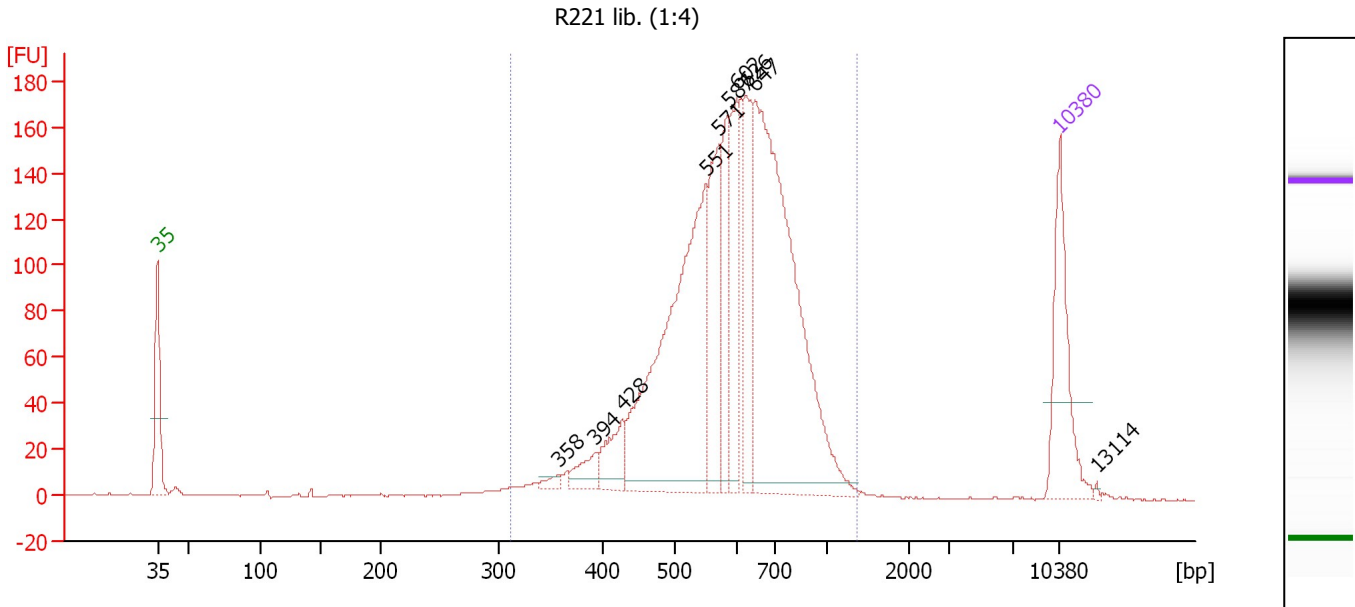
Region table for sample 1 : R53 lib. (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
286	1,192	1,980.1	97	569	22.6	1,276.45	3,640.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : R221 lib. (1:4)

Number of peaks found: 10 Corr. Area 1: 2,202.6
 Noise: 0.2

Peak table for sample 2 : R221 lib. (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	358	6.84	28.9	
3	394	22.16	85.3	
4	428	39.17	138.7	
5	551	344.14	946.5	
6	571	97.20	257.7	
7	587	76.02	196.1	
8	602	88.36	222.3	
9	626	85.70	207.6	
10	647	420.50	984.1	
11	10,380	75.00	10.9	Upper Marker
12	13,114	0.00	0.0	

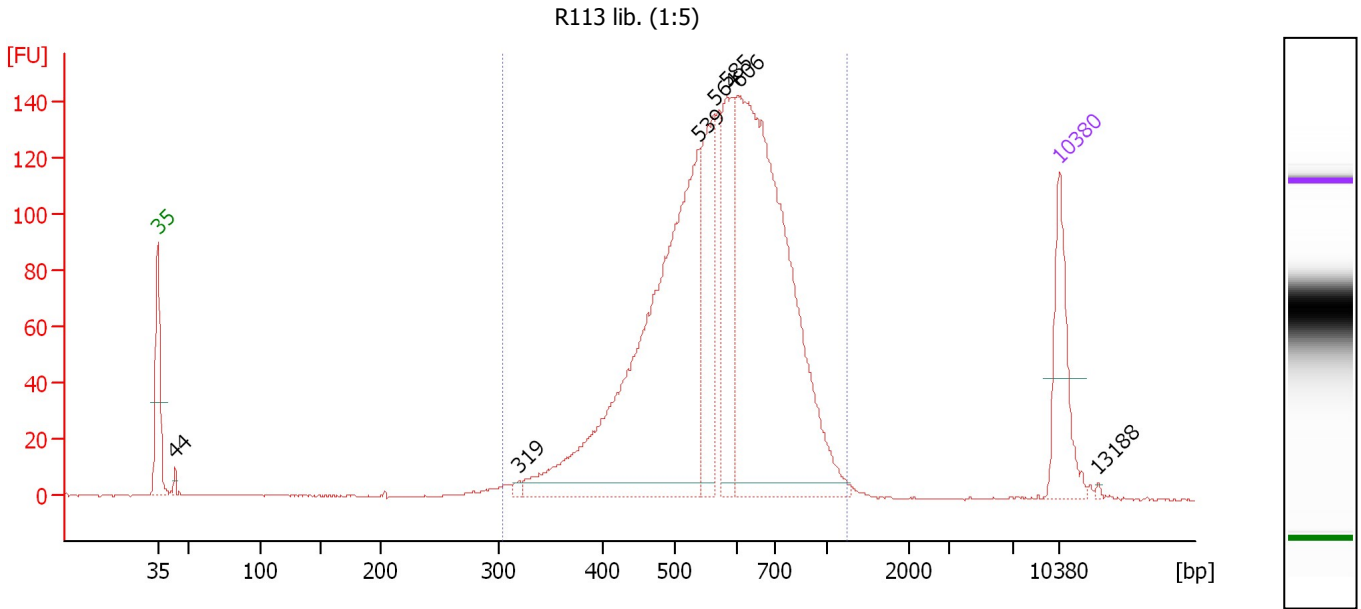
Region table for sample 2 : R221 lib. (1:4)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
311	1,362	2,202.6	98	615	23.1	1,282.67	3,372.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : R113 lib. (1:5)

Number of peaks found: 7 Corr. Area 1: 2,026.5
 Noise: 0.2

Peak table for sample 3 : R113 lib. (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	6.77	235.4	
3	319	5.54	26.3	
4	539	635.13	1,783.9	
5	564	149.32	401.1	
6	585	144.05	373.1	
7	606	631.12	1,578.0	
8	10,380	75.00	10.9	Upper Marker
9	13,188	0.00	0.0	

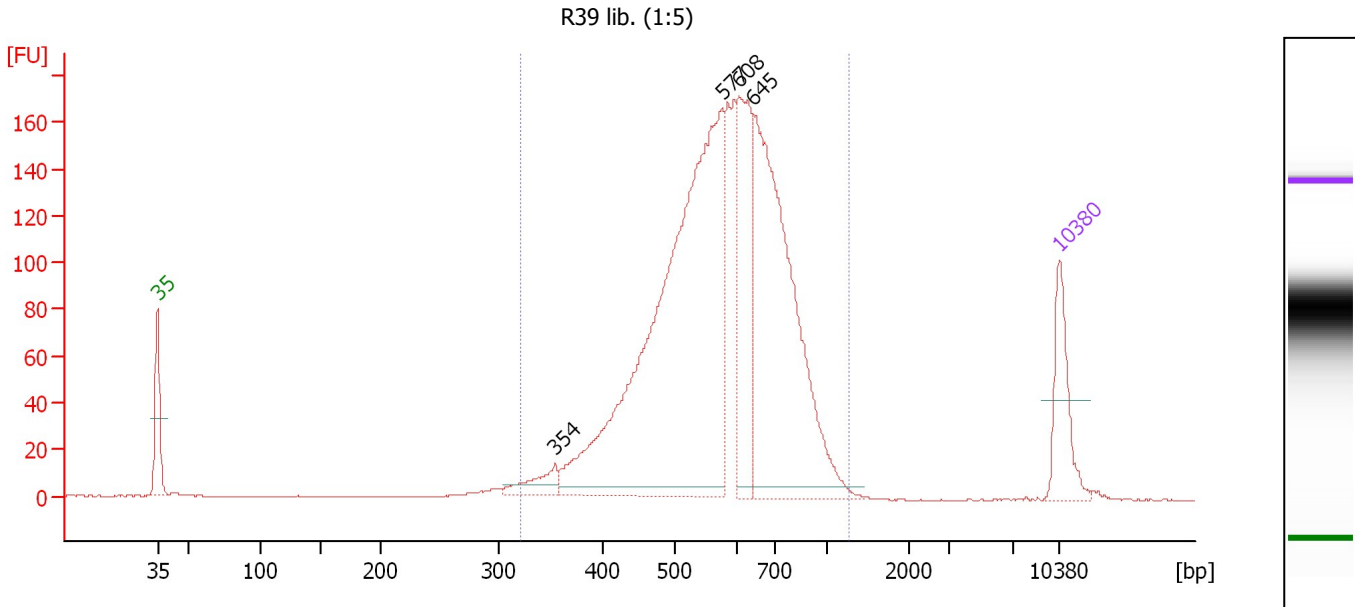
Region table for sample 3 : R113 lib. (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
304	1,246	2,026.5	97	592	23.2	1,682.52	4,607.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : R39 lib. (1:5)

Number of peaks found: 4 Corr. Area 1: 2,311.3
 Noise: 0.2

Peak table for sample 4 : R39 lib. (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	354	41.22	176.3	
3	577	979.27	2,570.5	
4	608	215.02	536.0	
5	645	575.80	1,352.3	
6	10,380	75.00	10.9	Upper Marker

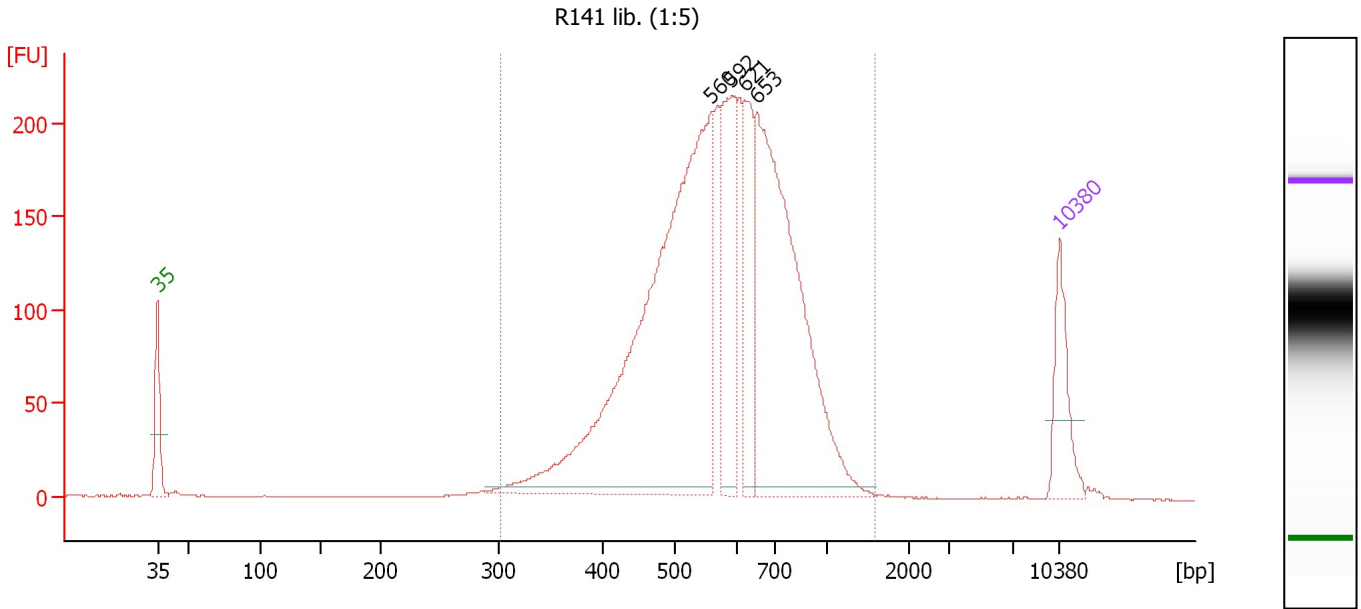
Region table for sample 4 : R39 lib. (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
321	1,258	2,311.3	98	596	22.4	2,065.37	5,595.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : R141 lib. (1:5)

Number of peaks found: 4 Corr. Area 1: 3,263.5
 Noise: 0.2

Peak table for sample 5 : R141 lib. (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	560	1,003.82	2,718.0	
3	592	209.09	534.7	
4	621	144.01	351.1	
5	653	638.65	1,481.7	
6	10,380	75.00	10.9	Upper Marker

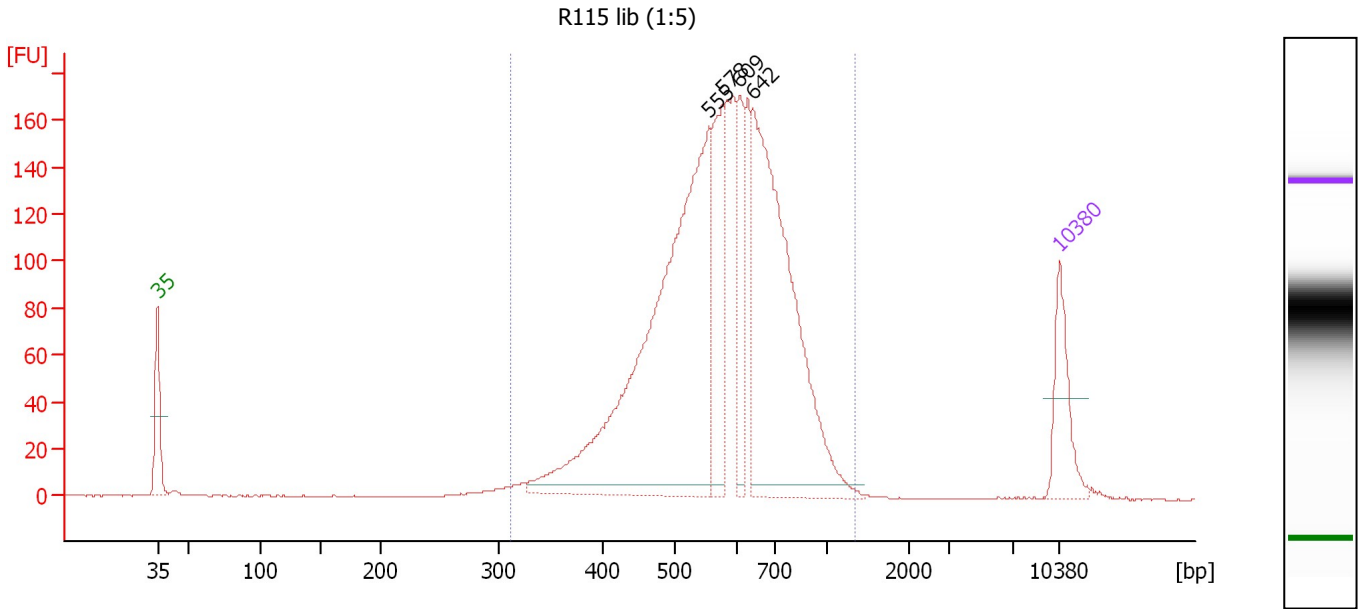
Region table for sample 5 : R141 lib. (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
301	1,589	3,263.5	98	602	26.2	2,303.70	6,273.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : R115 lib (1:5)

Number of peaks found: 4 Corr. Area 1: 2,324.8
 Noise: 0.2

Peak table for sample 6 : R115 lib (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	555	863.99	2,357.3	
3	578	178.66	468.7	
4	609	101.58	252.8	
5	642	599.11	1,414.0	
6	10,380	75.00	10.9	Upper Marker

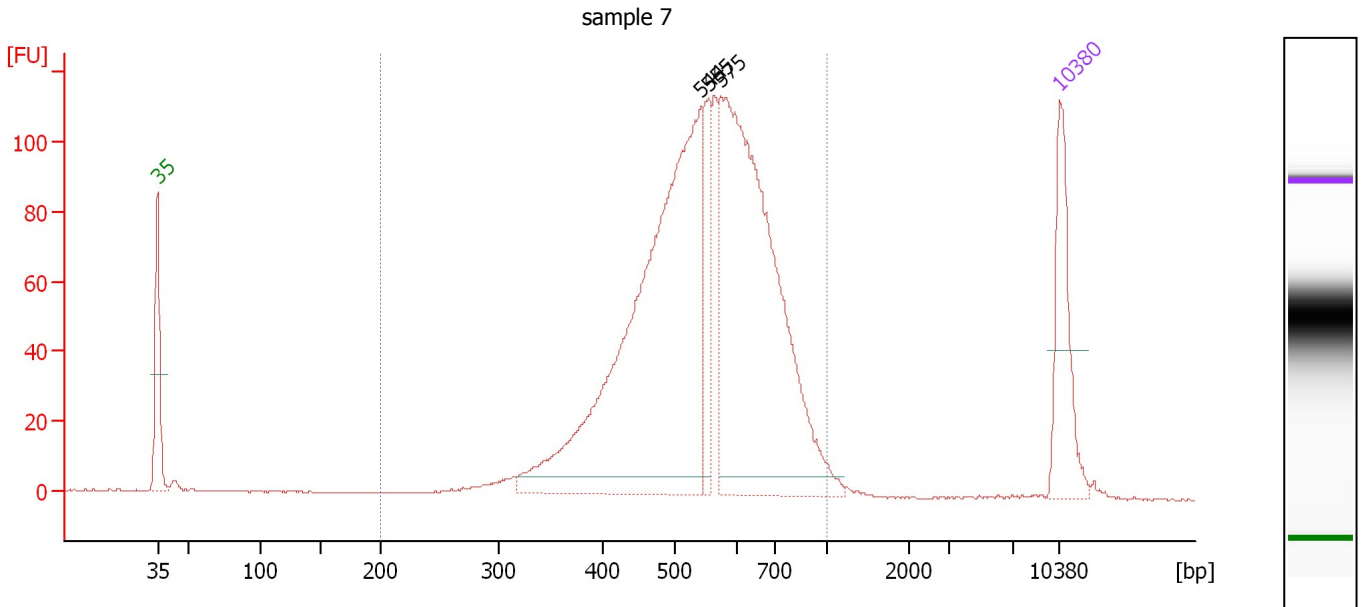
Region table for sample 6 : R115 lib (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
310	1,336	2,324.8	97	596	23.1	2,104.79	5,718.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 3 Corr. Area 1: 1,653.8
 Noise: 0.2

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	544	620.69	1,728.3	
3	555	74.58	203.7	
4	575	534.46	1,407.6	
5	10,380	75.00	10.9	Upper Marker

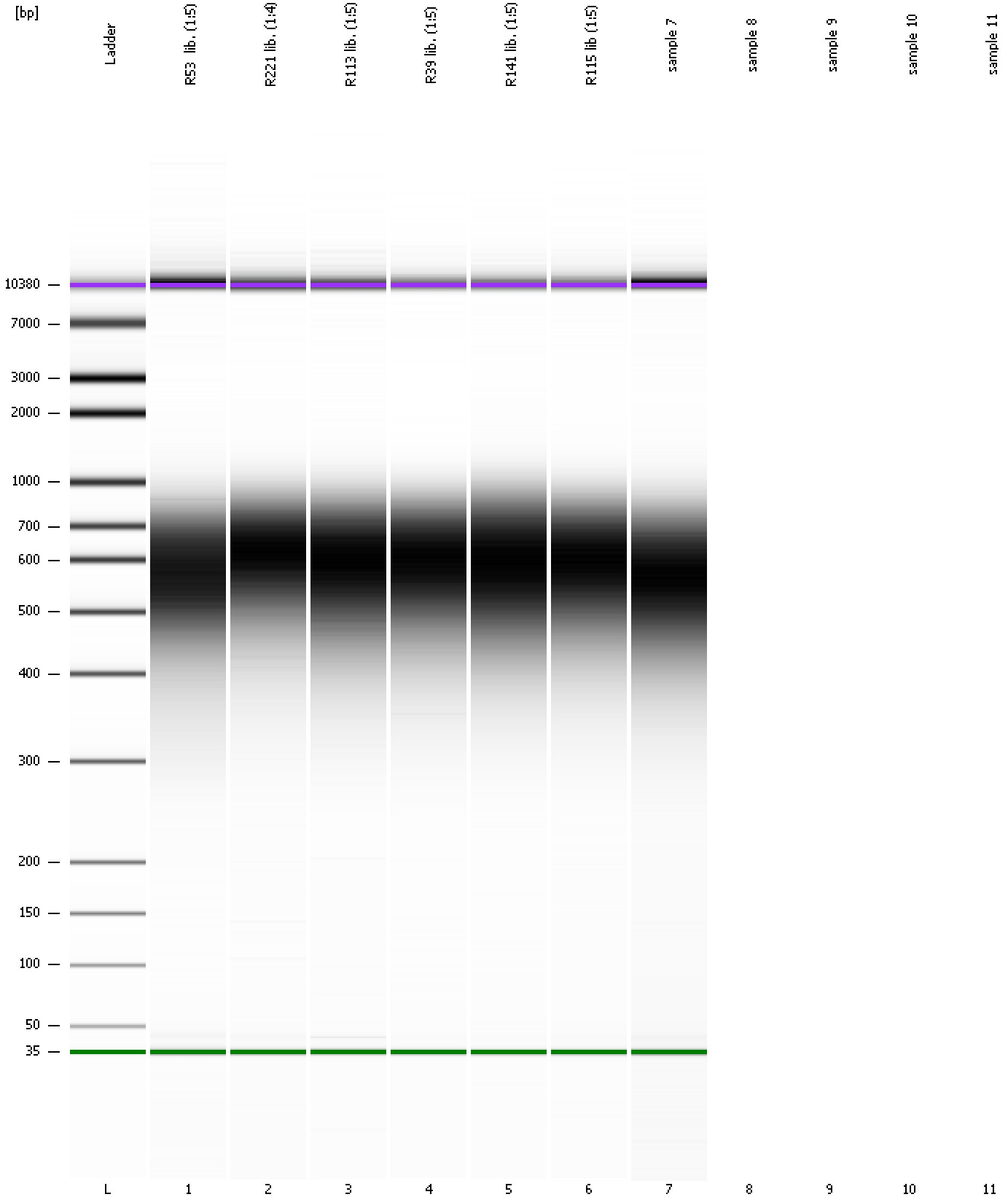
Region table for sample 7 : sample 7

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	1,653.8	98	558	21.6	1,353.46	3,925.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
Modified: 9/8/2014 12:01:56 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
Modified: 9/8/2014 12:01:56 PM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad

Created: 9/8/2014 11:28:16 AM
 Modified: 9/8/2014 12:01:56 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		9/8/2014 11:58:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-08\2014-09-08_002.xad)		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/8/2014 11:28:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1