

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Bioanalyzer\2015-11-18\2015-11-18_001_HiSeq241_18_19_56.xad

Created: 11/18/2015 11:50:56 AM
Modified: 11/18/2015 12:34:10 PM

Electrophoresis File Run Summary

Instrument Information:

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

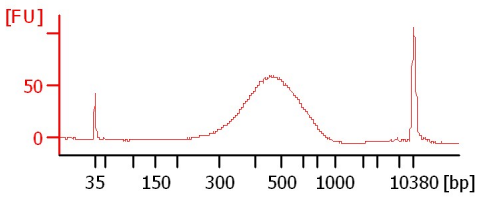
Assay Information:

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

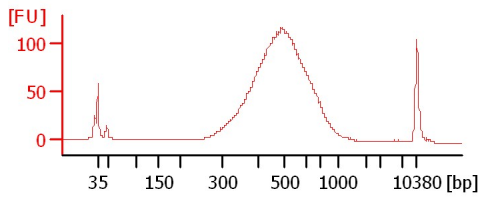
Chip Information:

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

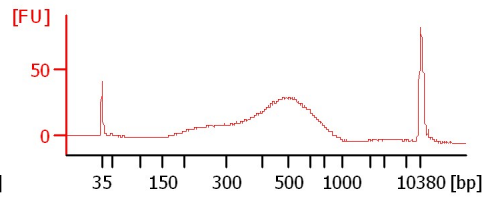
sample 18



sample 19



sample 56



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 56		<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

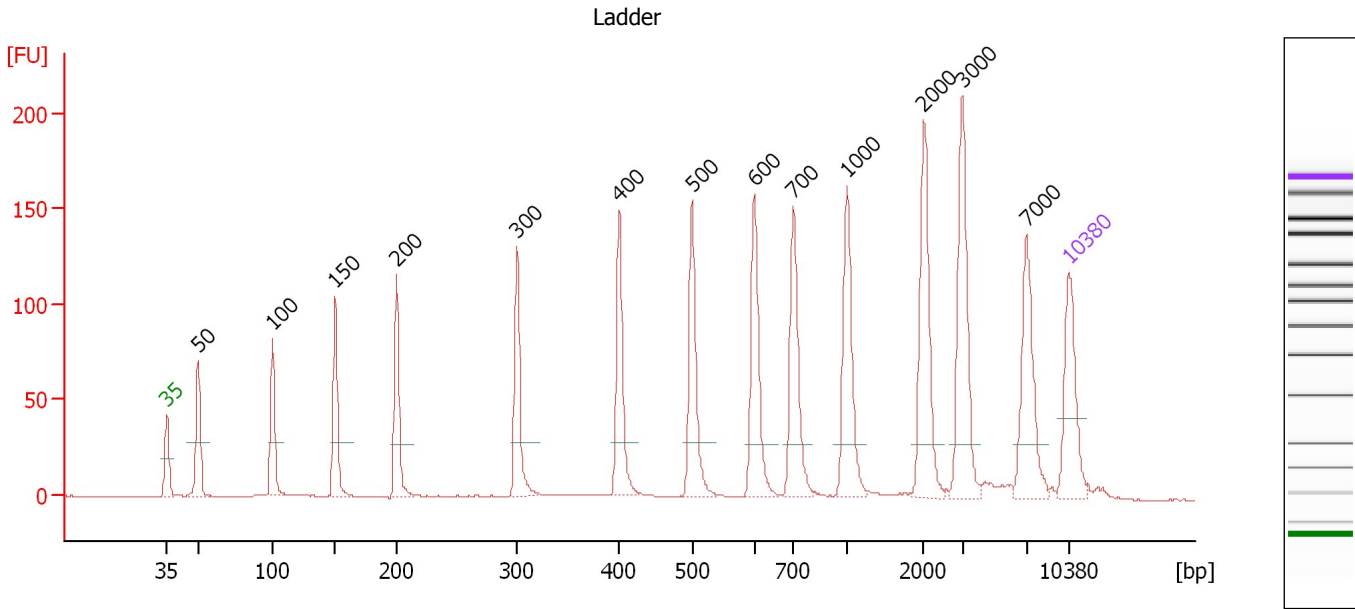
Ladder

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

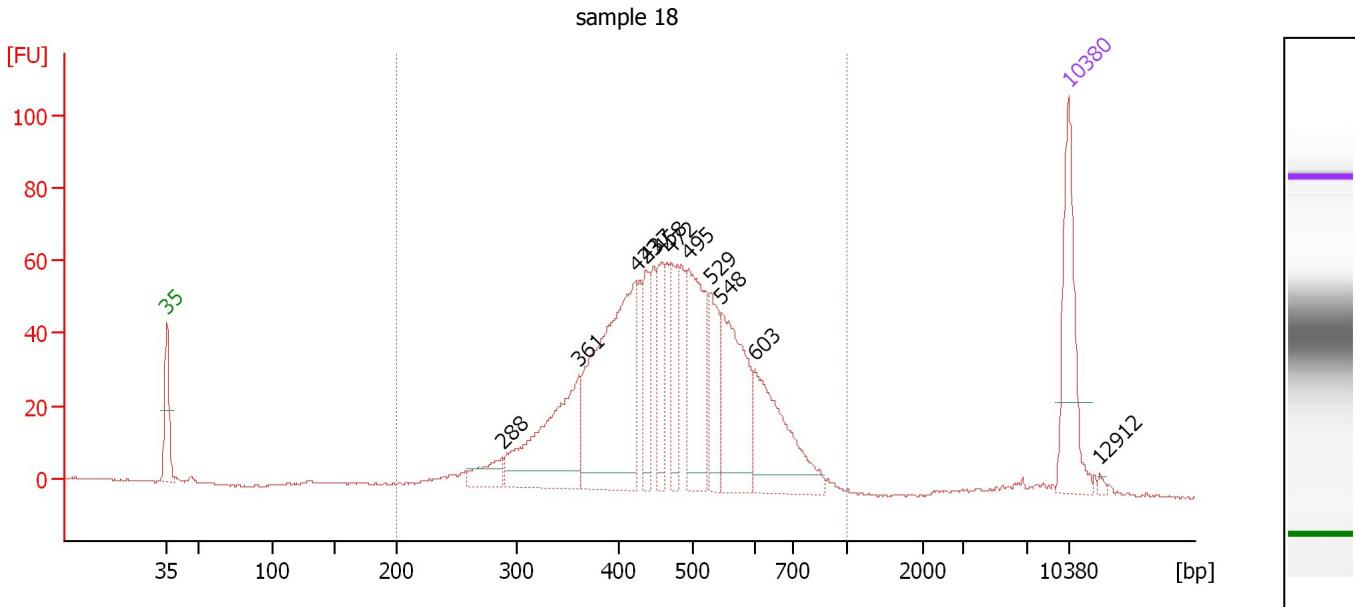
Peak table for Ladder

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	45.41
3	100	150.00	2,272.7	Ladder Peak	51.23
4	150	150.00	1,515.2	Ladder Peak	56.09
5	200	150.00	1,136.4	Ladder Peak	60.86
6	300	150.00	757.6	Ladder Peak	70.18
7	400	150.00	568.2	Ladder Peak	78.14
8	500	150.00	454.5	Ladder Peak	83.77
9	600	150.00	378.8	Ladder Peak	88.59
10	700	150.00	324.7	Ladder Peak	91.64
11	1,000	150.00	227.3	Ladder Peak	95.82
12	2,000	150.00	113.6	Ladder Peak	101.73
13	3,000	150.00	75.8	Ladder Peak	104.77
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 18

Number of peaks found: 11 Corr. Area 1: 1,160.7
 Noise: 0.2

Peak table for sample 1 : sample 18

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	288	29.31	154.2		69.06
3	361	157.61	662.2		75.00
4	423	259.63	931.0		79.41
5	437	46.76	162.1		80.22
6	458	48.12	159.2		81.40
7	472	54.82	176.1		82.18
8	495	123.62	378.4		83.49
9	529	57.16	163.7		85.17
10	548	121.45	335.9		86.08
11	603	112.00	281.6		88.67
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,912	0.00	0.0		115.45

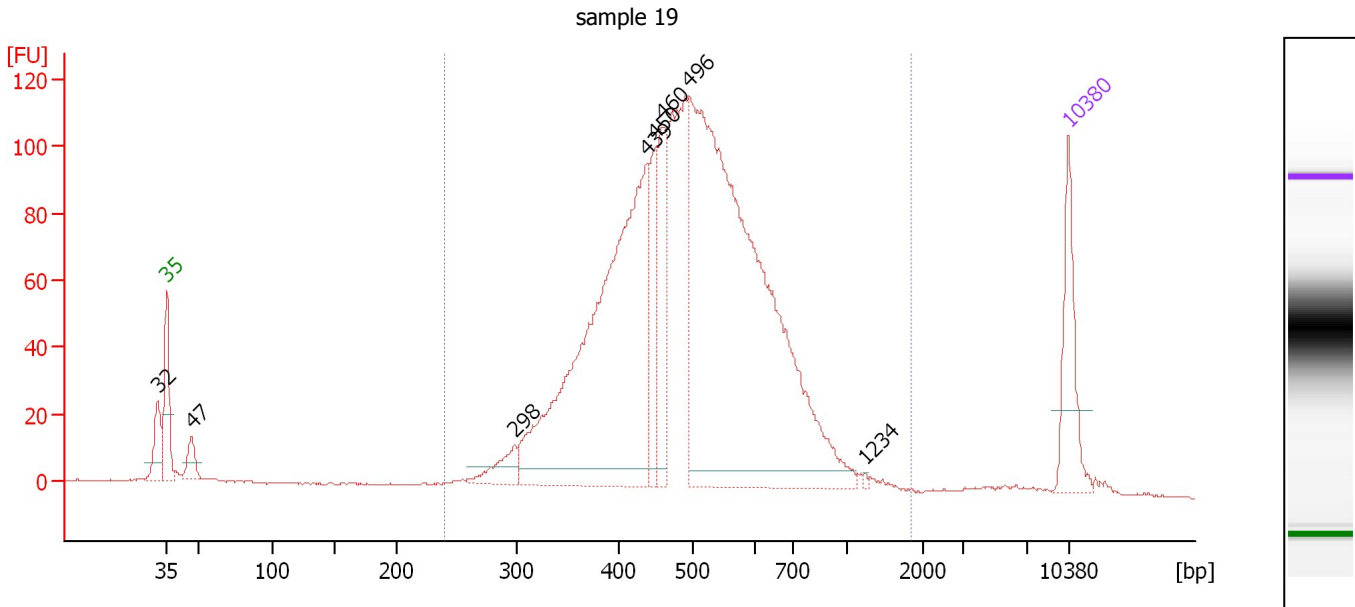
Region table for sample 1 : sample 18

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	472	1,160.7	4,176.2	1,203.94	97	23.3

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 19

Number of peaks found: 8 Corr. Area 1: 2,049.7
 Noise: 0.2

Peak table for sample 2 : sample 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.27
2	35	125.00	5,411.3	Lower Marker	43.00
3	47	34.95	1,129.9		44.91
4	298	40.88	207.7		70.01
5	439	711.02	2,455.9		80.32
6	450	85.21	286.9		80.95
7	460	117.30	386.0		81.54
8	496	1,058.16	3,233.5		83.54
9	1,234	2.36	2.9		97.20
10	10,380	75.00	10.9	Upper Marker	113.00

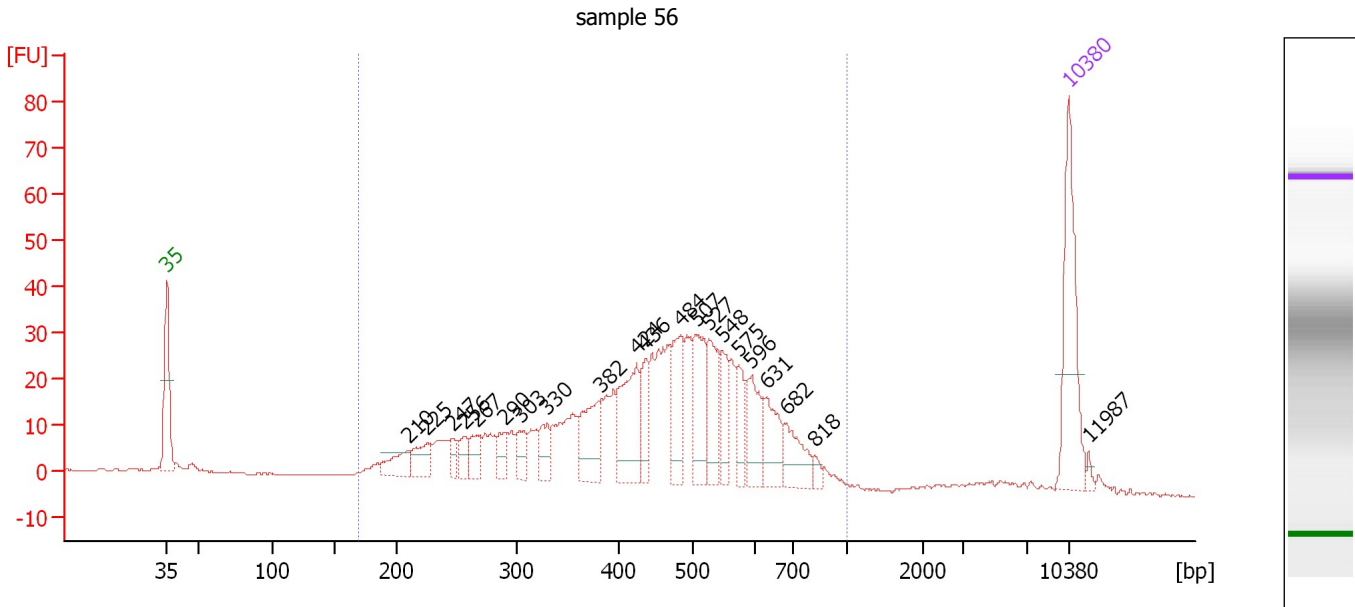
Region table for sample 2 : sample 19

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
240	1,843	511	2,049.7	7,523.0	2,318.62	93	29.9

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 56

Number of peaks found: 21 Corr. Area 1: 747.2
 Noise: 0.2

Peak table for sample 3 : sample 56

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	210	27.59	199.5		61.76
3	225	27.97	188.1		63.22
4	247	12.67	77.8		65.24
5	256	16.14	95.6		66.06
6	267	21.71	123.4		67.07
7	290	18.82	98.3		69.26
8	303	19.13	95.7		70.41
9	330	21.59	99.2		72.56
10	382	51.14	203.0		76.67
11	424	73.11	261.5		79.46
12	436	29.30	101.9		80.15
13	484	53.43	167.1		82.90
14	507	60.16	179.6		84.13
15	527	40.16	115.4		85.09
16	548	30.32	83.8		86.10
17	575	27.18	71.6		87.38
18	596	40.28	102.4		88.39
19	631	36.34	87.3		89.53
20	682	33.03	73.4		91.08
21	818	6.57	12.2		93.28
22	10,380	75.00	10.9	Upper Marker	113.00
23	11,987	0.00	0.0		114.56


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Electropherogram Summary Continued ...

... Region table for sample 3 :

sample 56

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
169	1,000	456	747.2	4,160.4	 1,056.00	92	31.1

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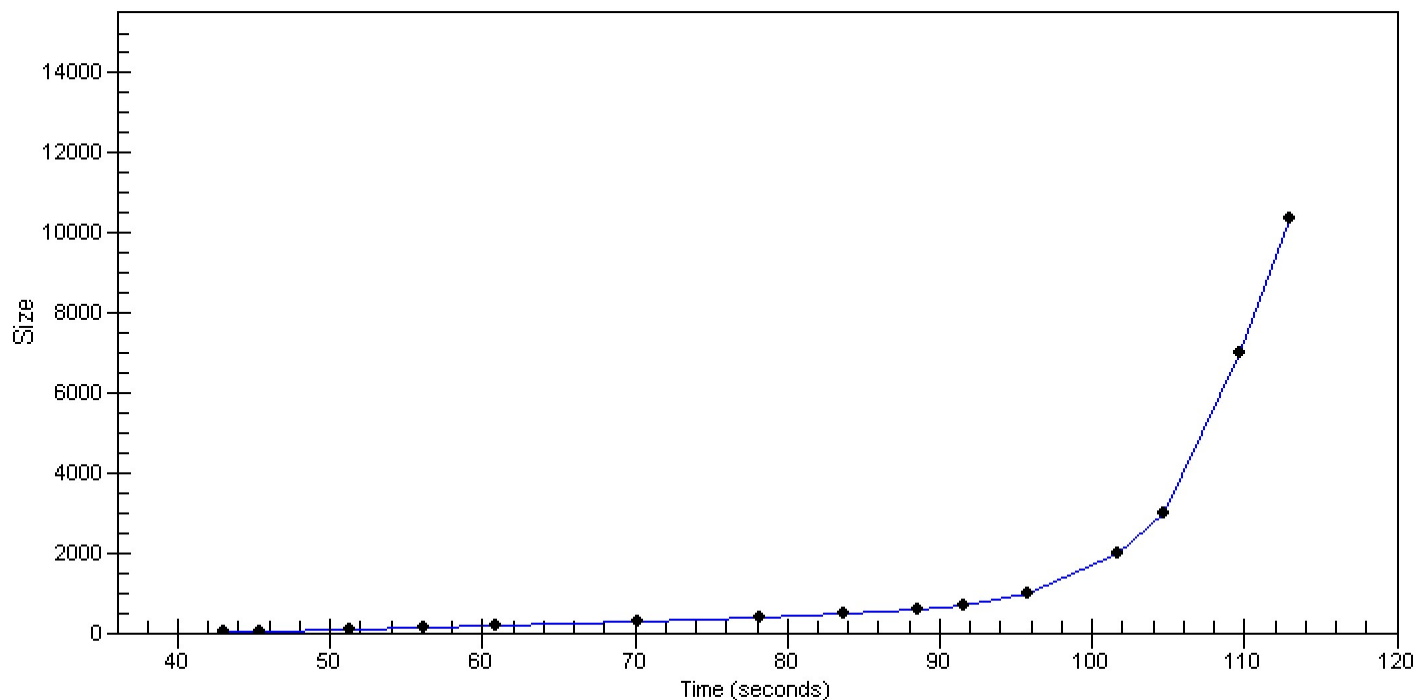
Gel Image

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Curves

Standard Curve



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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		11/18/2015 12:32:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 8	11/18/2015 12:21:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-18\2015-11-18_001.xad)		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/18/2015 11:51:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1