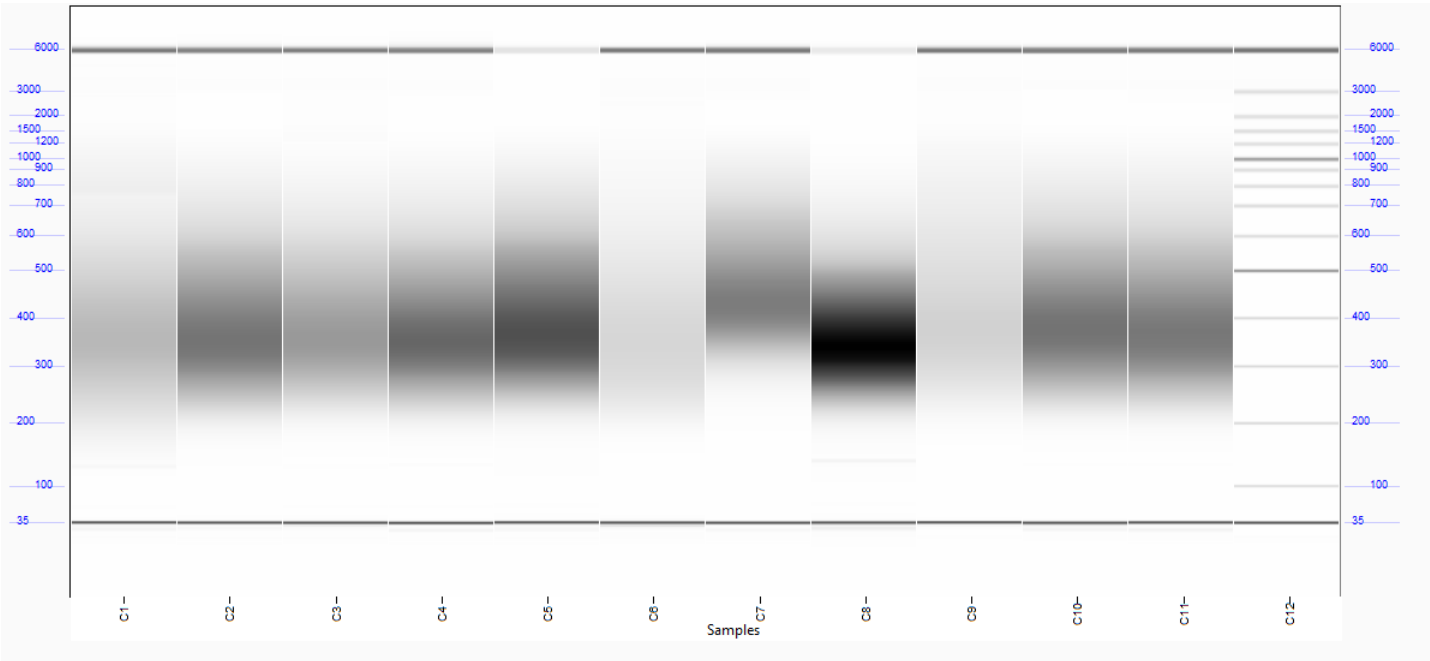
Fragment Analyzer Run Summary:

Filename and Data Path: C:\AATI\Data\2014 07 04\16-27-21\2014 07 04 16H 27M.raw
Created: 04 July, 2014 16:43:04
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 137
FA Version #: 1.0.2.9
Device Serial #: 2764

METHOD INFORMATION
Method Name: DNF-486-33 - HS NGS Fragment 35-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, # Dips: 1
Sample Injection: 5.0 kV, 30 sec.
Separation: 6.0 kV, 50.0 min.
Tray Name: Tray-1

Analysis Mode: NGS

NOTE



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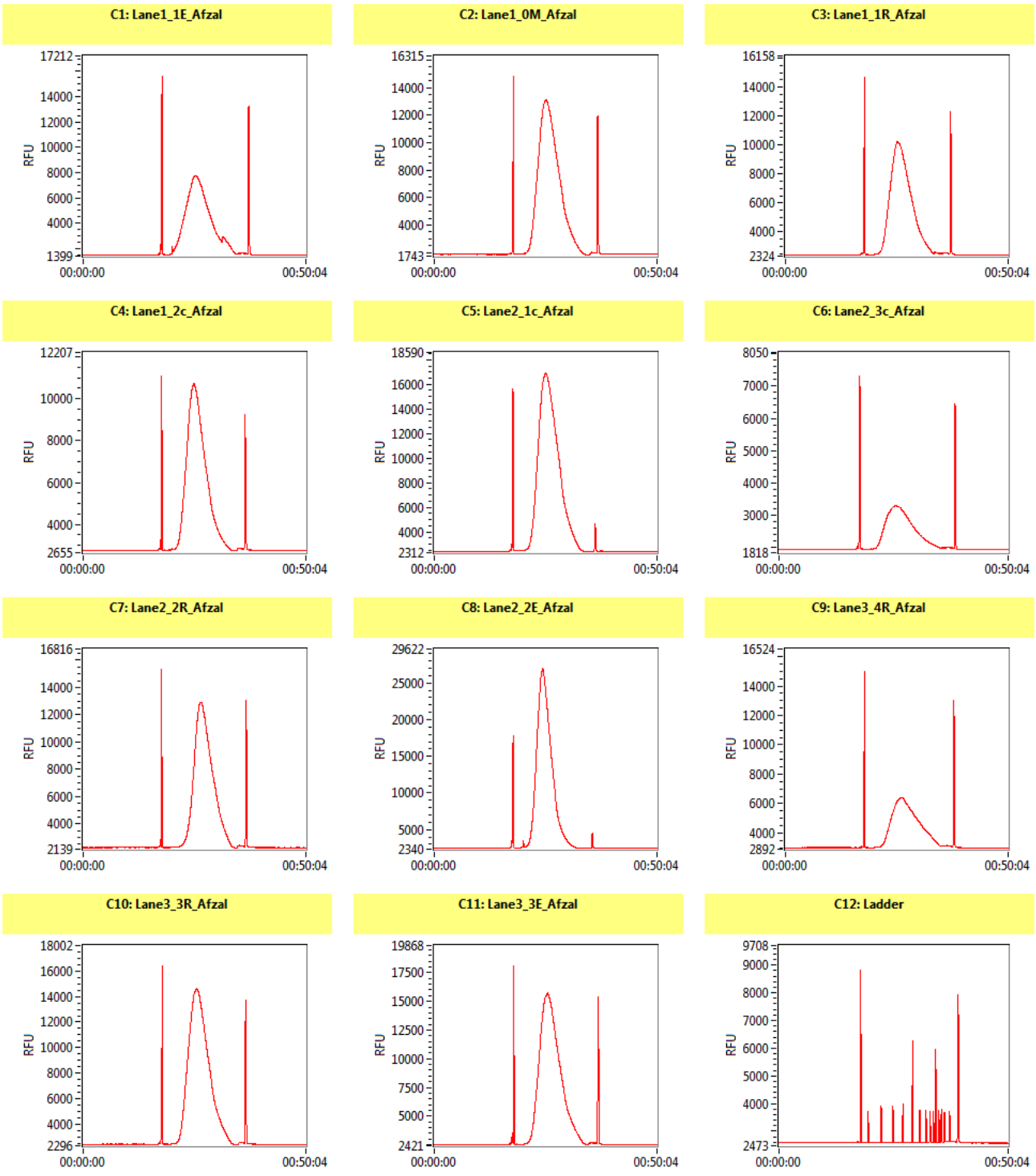
Filename and Data Path: C:\AATI\Data\2014 07 04\16-27-21\2014 07 04 16H 27M.raw



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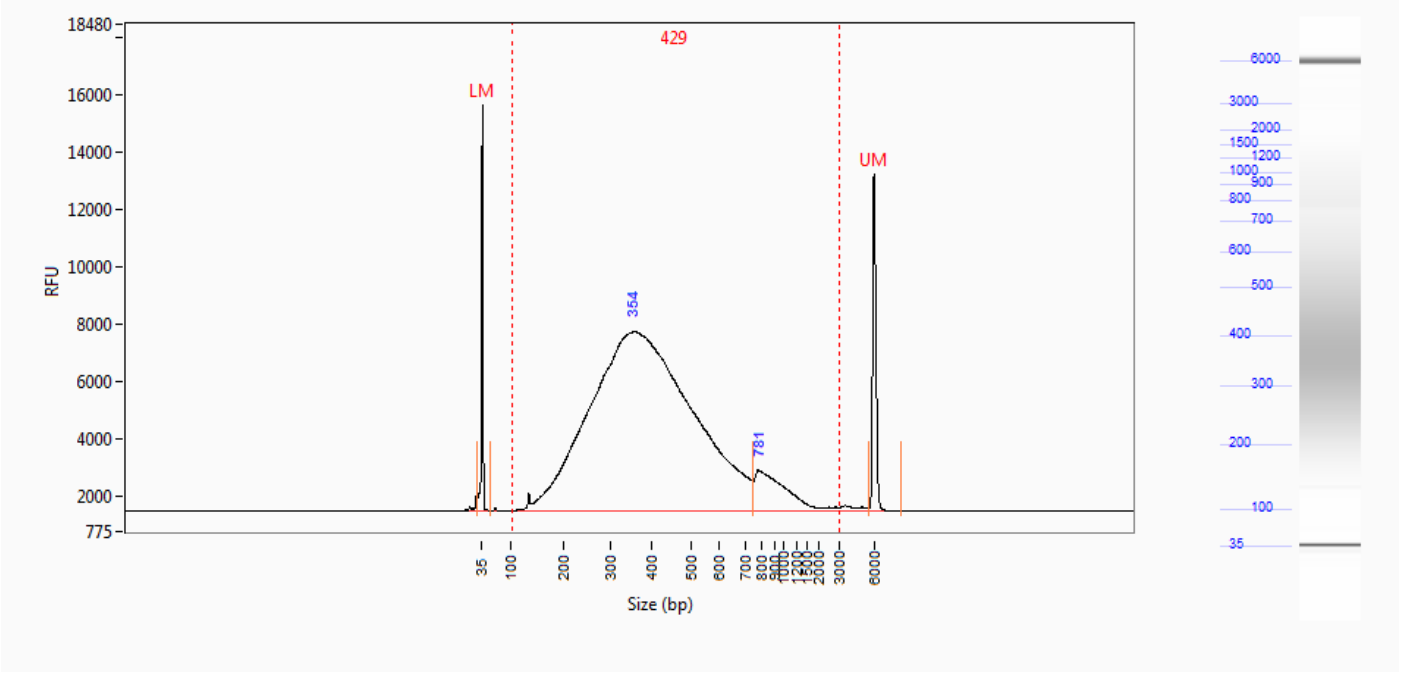
Sample: Lane1_1E_Afzal
Well Location: C1
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	26	54	34	6.50	14154	70.889
2	354	30.959	54	750	388	31.92	6259	1461.480
3	781	0.816	750	5595	1251	72.44	1430	84.910
4	6000 (UM)	0.006	5595	8307	6016	2.96	11746	60.897

TIC:	7.0479	ng/uL
TIM:	31.775	nmole/L
Total Conc.:	7.0479	ng/uL

Smear Analysis 100 bp to 3000 bp 7.019 ng/ul 99.6 %Total 26.9188 nmole/L 429 Avg. Size (b.p.) 51.64 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 900   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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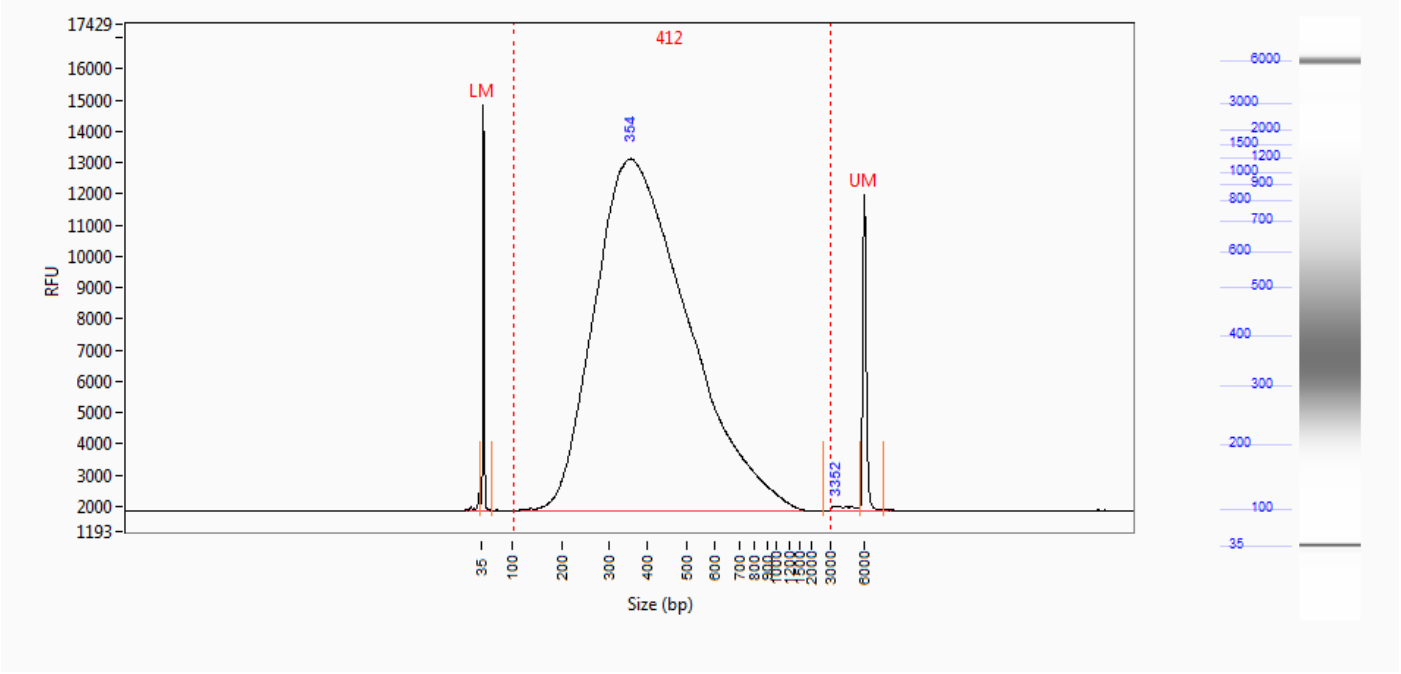
Sample: Lane1_0M_Afzal
Well Location: C2
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	30	56	35	5.42	12969	61.015
2	354	57.986	56	2637	412	33.99	11260	2356.050
3	3352	0.011	2637	5568	4148	17.67	149	4.306
4	6000 (UM)	0.007	5568	7744	6024	3.27	10082	55.519

TIC:	12.4984	ng/uL	
TIM:	57.997	nmole/L	
Total Conc.:	12.4984	ng/uL	

Smear Analysis	100 bp to 3000 bp	12.470 ng/ul	99.8 %Total	49.7826 nmole/L	412 Avg. Size (b.p.)	34.12 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 900   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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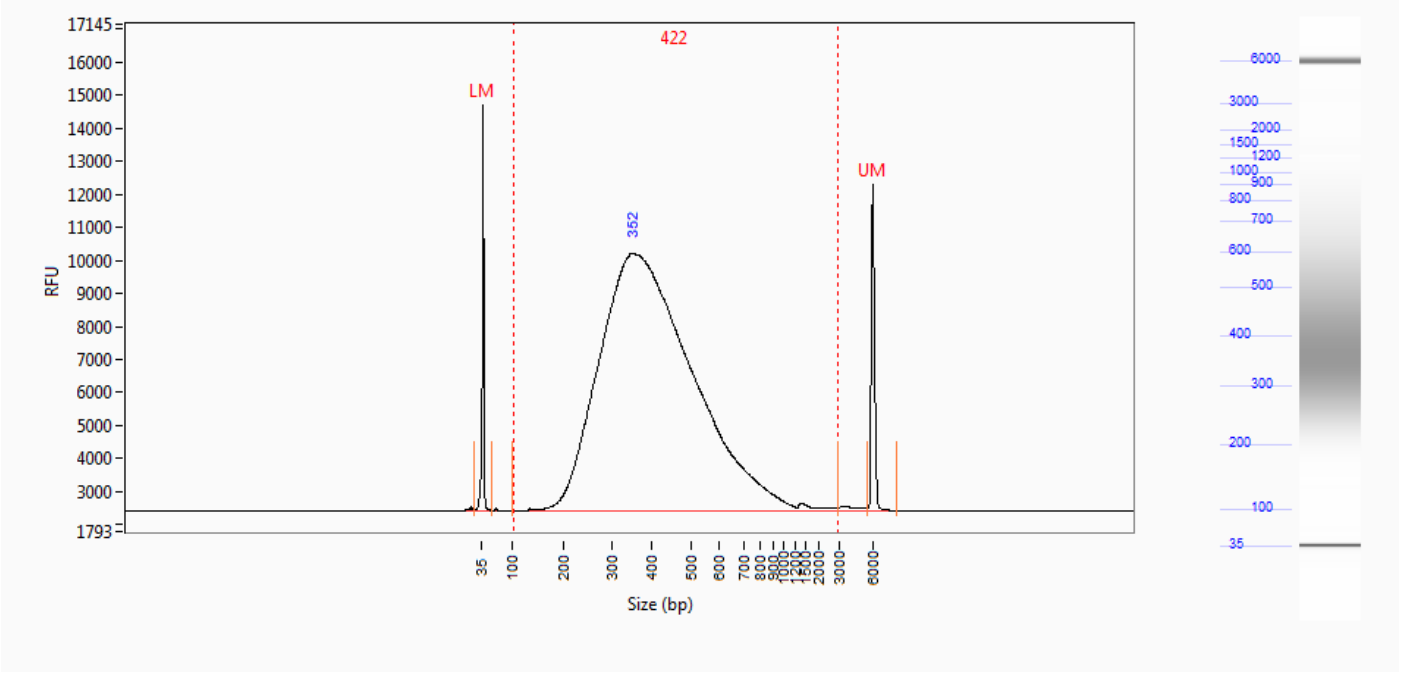
Sample: Lane1_1R_Afzal
Well Location: C3
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	18	55	34	8.74	12272	66.045
2	352	37.173	99	3000	422	42.78	7802	1624.255
3	6000 (UM)	0.006	5595	8066	6023	3.34	9881	50.842

TIC:	7.9457	ng/uL
TIM:	37.173	nmole/L
Total Conc.:	7.9717	ng/uL

Smear Analysis	100 bp to 3000 bp	7.944 ng/ul	99.6 %Total	31.0011 nmole/L	422 Avg. Size (b.p.)	42.78 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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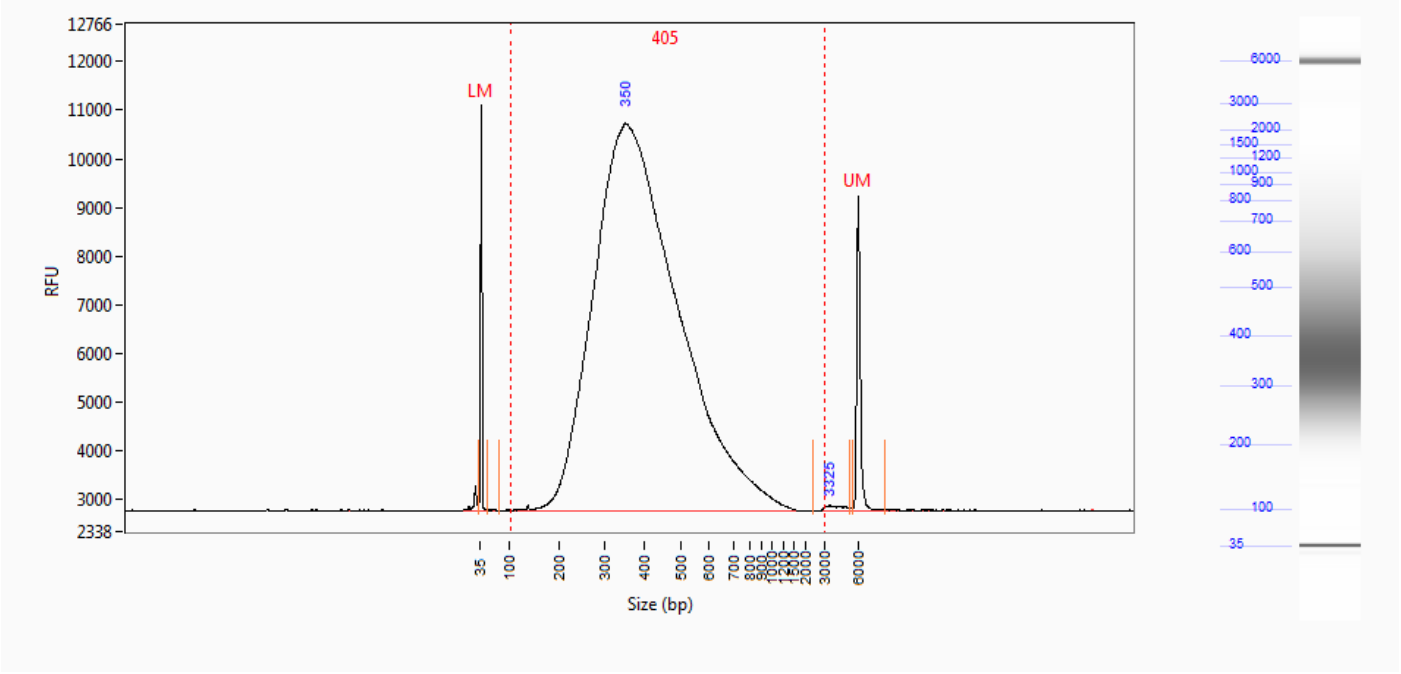
Sample: Lane1_2c_Afzal
Well Location: C4
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	30	51	34	5.01	8323	38.867
2	350	59.377	75	2379	404	32.16	7956	1520.170
3	3325	0.011	2379	5189	3876	17.21	93	2.598
4	6000 (UM)	0.007	5568	8522	6039	4.01	6459	37.036

TIC:	12.6581	ng/uL	
TIM:	59.388	nmole/L	
Total Conc.:	12.6619	ng/uL	

Smear Analysis 100 bp to 3000 bp 12.633 ng/ul 99.8 %Total 51.3390 nmole/L 405 Avg. Size (b.p.) 33.39 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU                Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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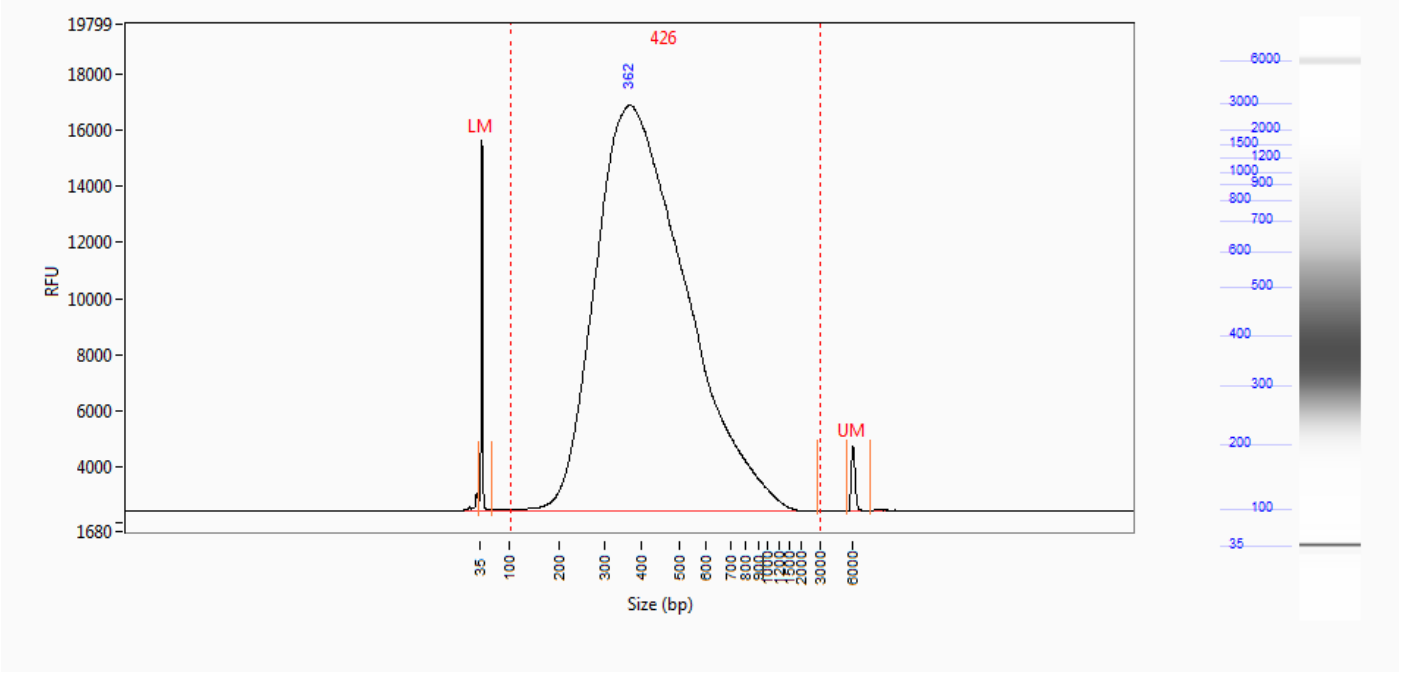
Sample: Lane2_1c_Afzal
Well Location: C5
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	30	59	35	6.95	13223	64.462
2	362	66.701	59	2834	426	33.36	14466	2931.504
3	6000 (UM)	0.002	5514	7663	6014	2.72	2265	14.052

TIC:	14.6928	ng/uL	
TIM:	66.701	nmole/L	
Total Conc.:	14.6928	ng/uL	

Smear Analysis	100 bp to 3000 bp	14.683 ng/ul	99.9 %Total	56.6937 nmole/L	426 Avg. Size (b.p.)	33.32 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 900   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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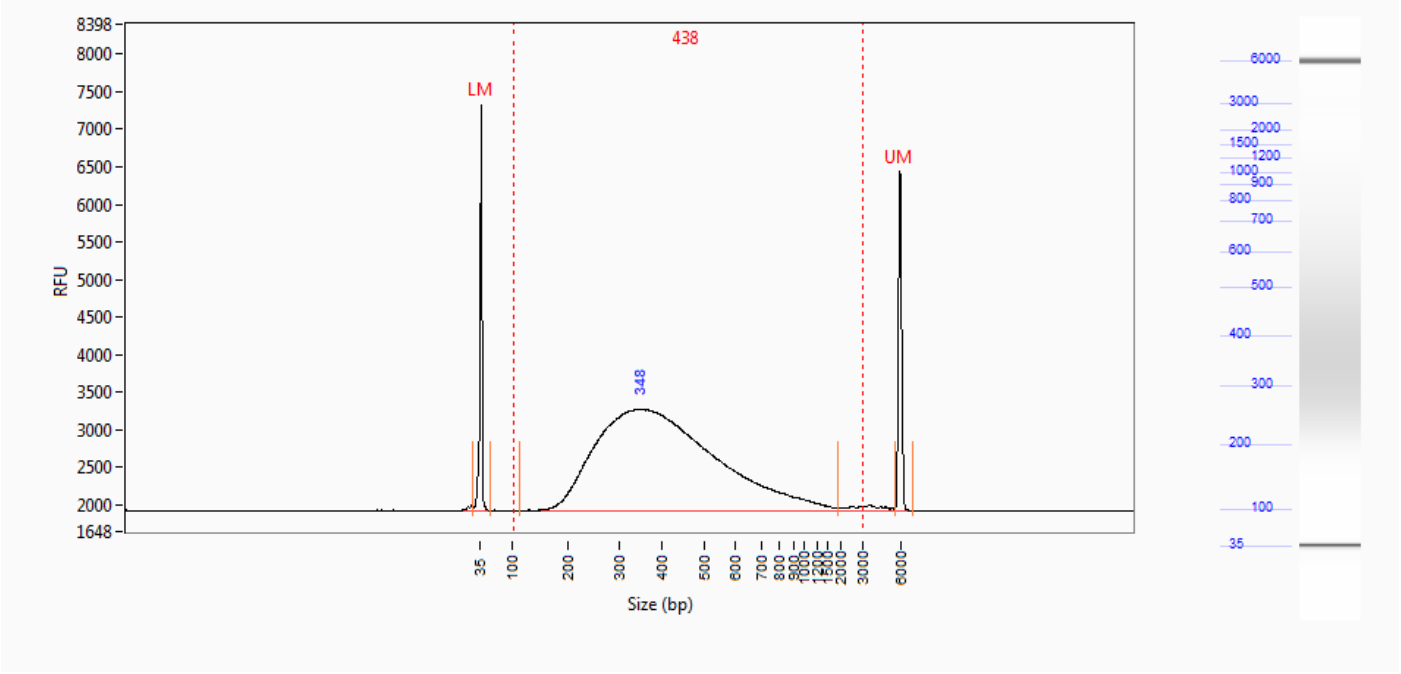
Sample: Lane2_3c_Afzal
Well Location: C6
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	19	56	33	9.37	5393	33.177
2	348	16.310	113	1885	426	42.49	1356	354.090
3	6000 (UM)	0.005	5595	7127	5997	2.12	4523	22.131

TIC:	3.4482	ng/uL	
TIM:	16.310	nmole/L	
Total Conc.:	3.4833	ng/uL	

Smear Analysis	100 bp to 3000 bp	3.462 ng/ul	99.4 %Total	12.9995 nmole/L	438 Avg. Size (b.p.)	54.61 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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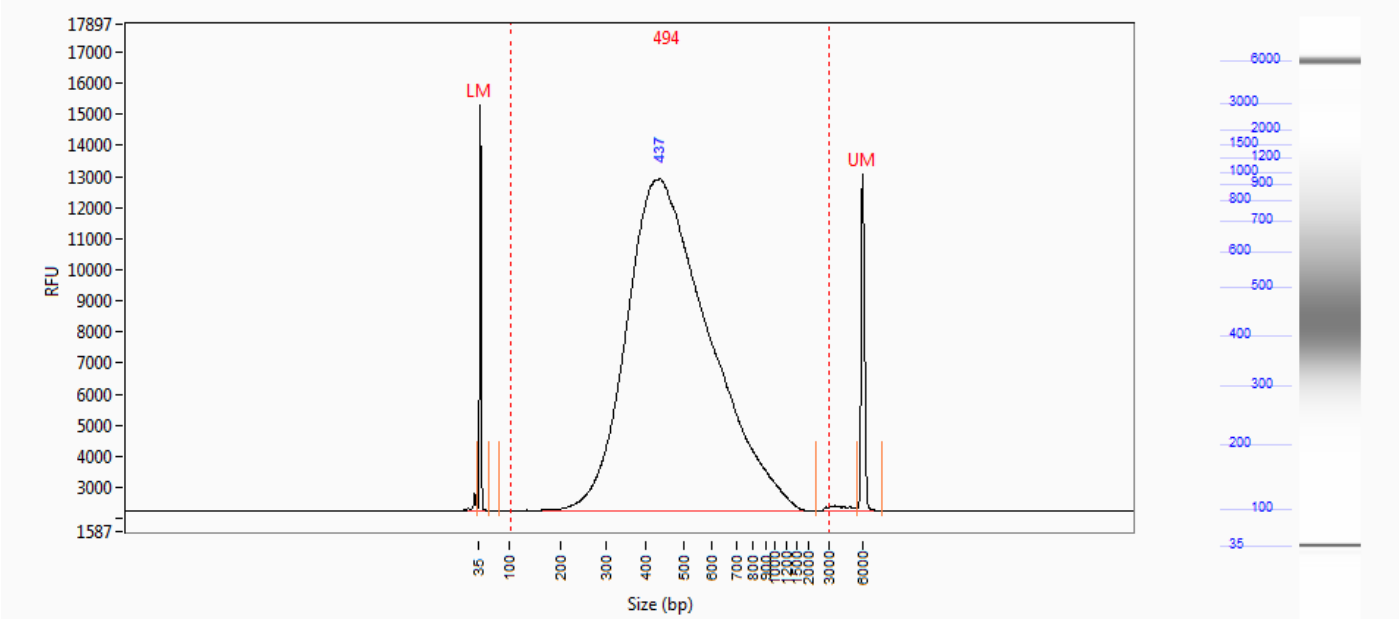
Sample: Lane2_2R_Afzal
Well Location: C7
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	29	56	34	4.71	13029	61.100
2	437	37.386	77	2334	493	29.81	10669	1877.164
3	6000 (UM)	0.007	5568	7744	6006	2.76	10817	58.538

TIC:	9.9261	ng/uL
TIM:	37.386	nmole/L
Total Conc.:	9.9557	ng/uL

Smear Analysis	100 bp to 3000 bp	9.924 ng/ul	99.7 %Total	33.0563 nmole/L	494 Avg. Size (b.p.)	31.92 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 900   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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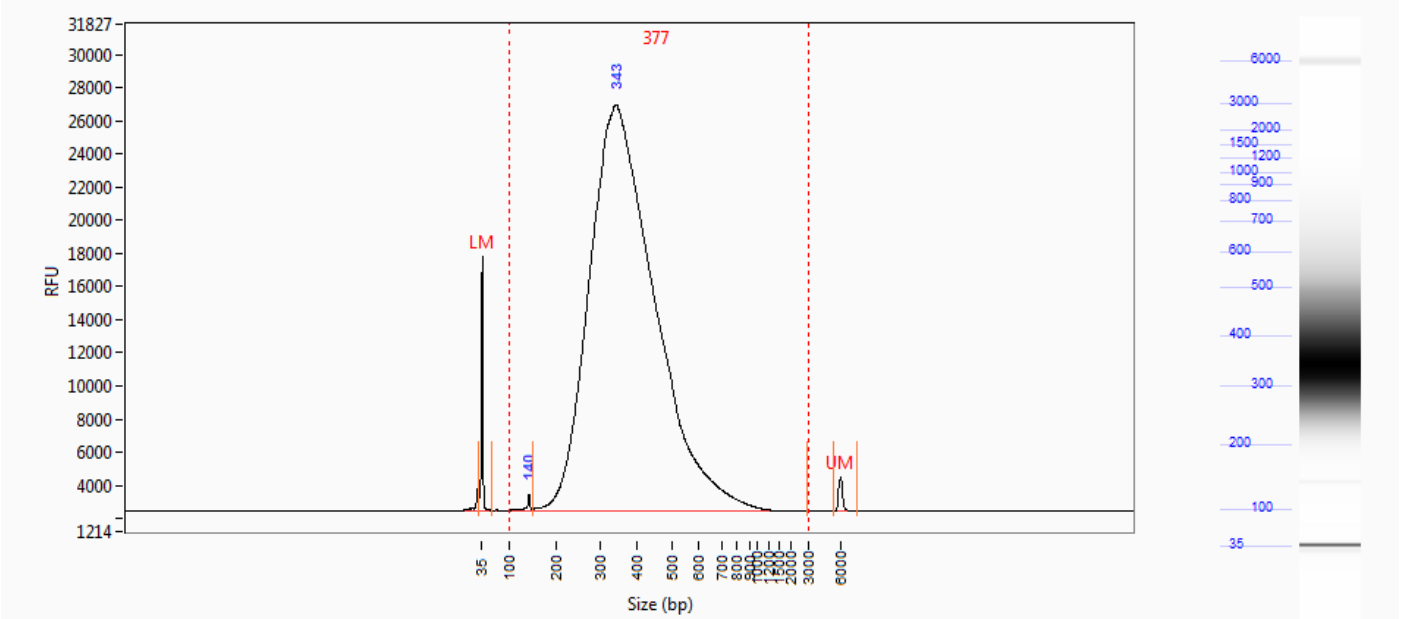
Sample: Lane2_2E_Afzal
Well Location: C8
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	30	61	35	7.25	15382	77.406
2	140	0.526	61	148	128	15.39	1009	10.748
3	343	74.435	148	2939	378	27.04	24461	3720.463
4	6000 (UM)	0.001	5298	7610	5992	3.03	2003	13.122

TIC:	15.5738	ng/uL	
TIM:	74.961	nmole/L	
Total Conc.:	15.5738	ng/uL	

Smear Analysis 100 bp to 3000 bp 15.566 ng/ul 100.0 %Total 67.8766 nmole/L 377 Avg. Size (b.p.) 27.20 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 1500  Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU                Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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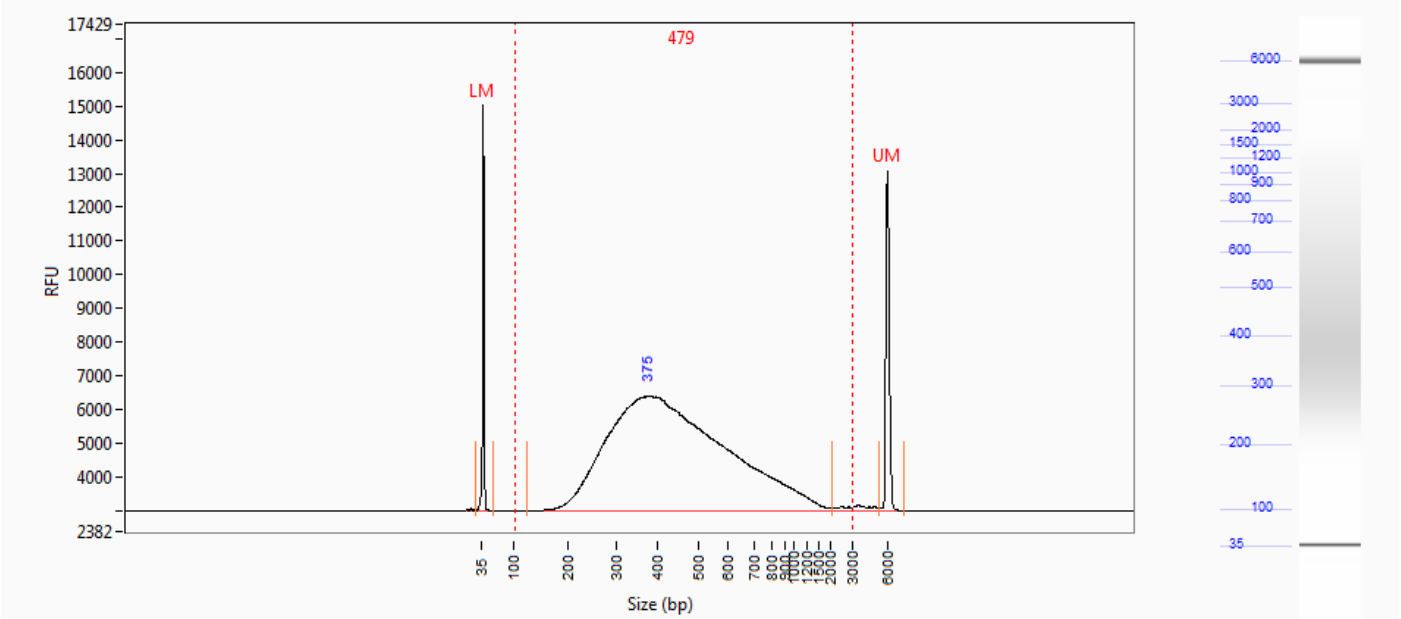
Sample: Lane3_4R_Afzal
Well Location: C9
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	20	58	35	6.08	12021	60.633
2	375	20.145	124	2092	471	42.82	3395	862.728
3	6000 (UM)	0.006	5243	7449	6001	2.71	10054	52.585

TIC:	4.5971	ng/uL
TIM:	20.145	nmole/L
Total Conc.:	4.6337	ng/uL

Smear Analysis	100 bp to 3000 bp	4.612 ng/ul	99.5 %Total	15.8366 nmole/L	479 Avg. Size (b.p.)	50.22 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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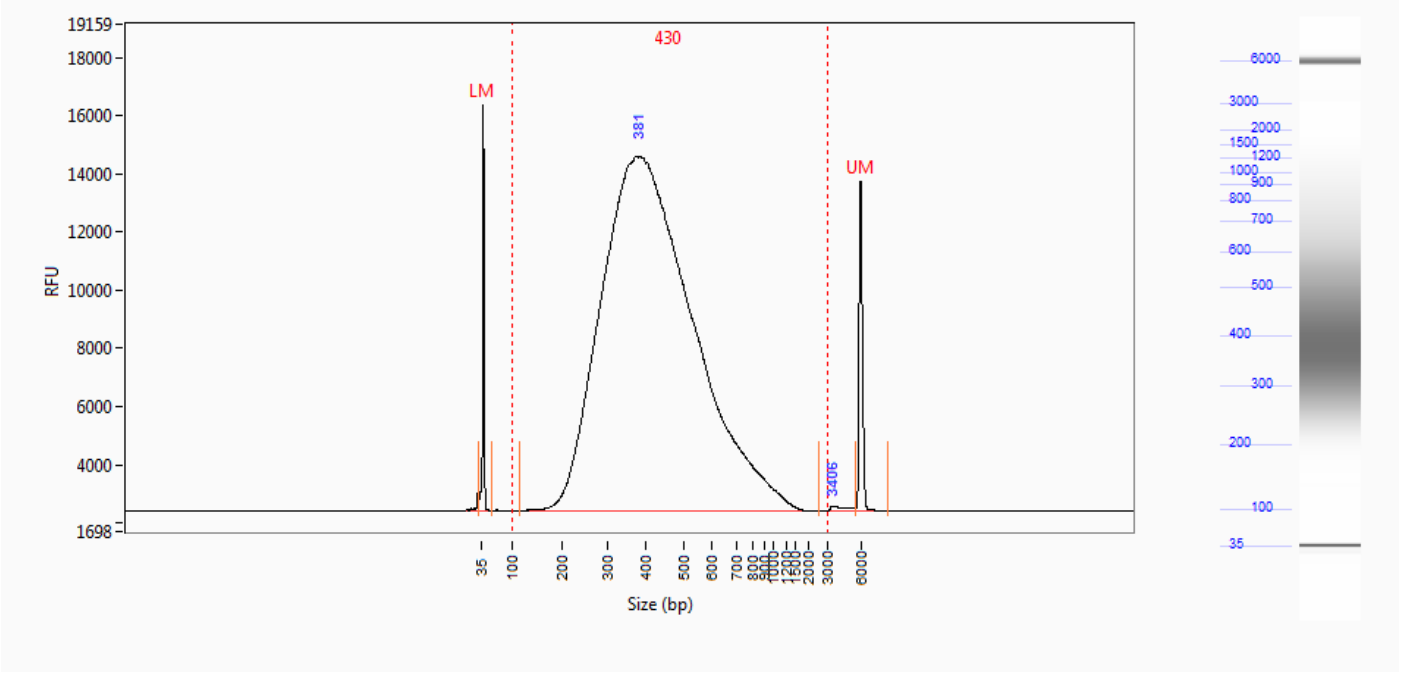
Sample: Lane3_3R_Afzal
Well Location: C10
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	26	57	34	6.48	13947	69.654
2	381	49.919	116	2561	430	33.69	12206	2491.007
3	3406	0.009	2561	5568	4218	16.18	160	4.108
4	6000 (UM)	0.006	5568	8522	6005	3.13	11344	61.284

TIC:	11.5734	ng/uL	
TIM:	49.928	nmole/L	
Total Conc.:	11.5743	ng/uL	

Smear Analysis 100 bp to 3000 bp 11.550 ng/ul 99.8 %Total 44.1789 nmole/L 430 Avg. Size (b.p.) 33.69 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 800   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU                Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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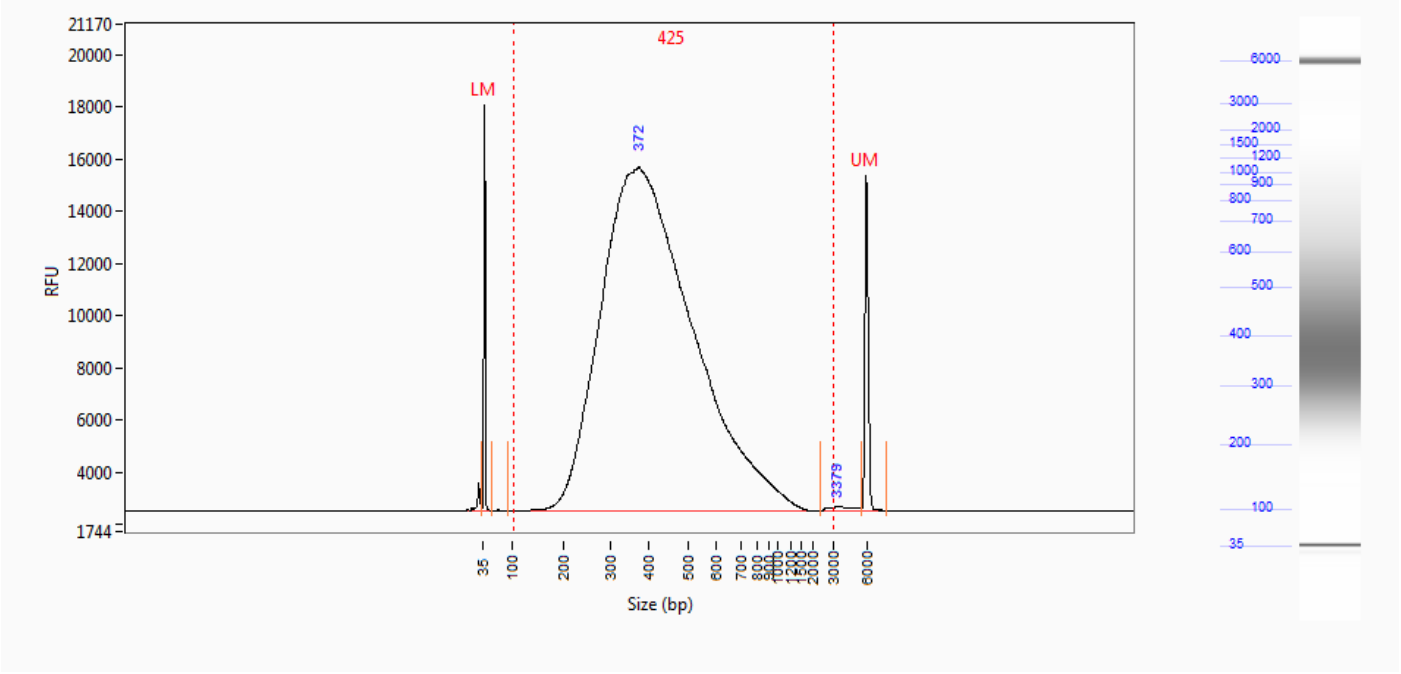
Sample: Lane3_3E_Afzal
Well Location: C11
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	30	54	35	4.78	15520	72.142
2	372	53.302	88	2410	423	33.96	13183	2688.286
3	3379	0.013	2410	5568	3820	22.48	163	6.106
4	6000 (UM)	0.007	5568	7771	6006	2.73	12828	67.642

TIC:	12.0666	ng/uL	
TIM:	53.315	nmole/L	
Total Conc.:	12.0674	ng/uL	

Smear Analysis 100 bp to 3000 bp 12.041 ng/ul 99.8 %Total 46.6087 nmole/L 425 Avg. Size (b.p.) 36.86 %CV

```
Sample Peak Width (sec): 50   Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 1100  Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU                Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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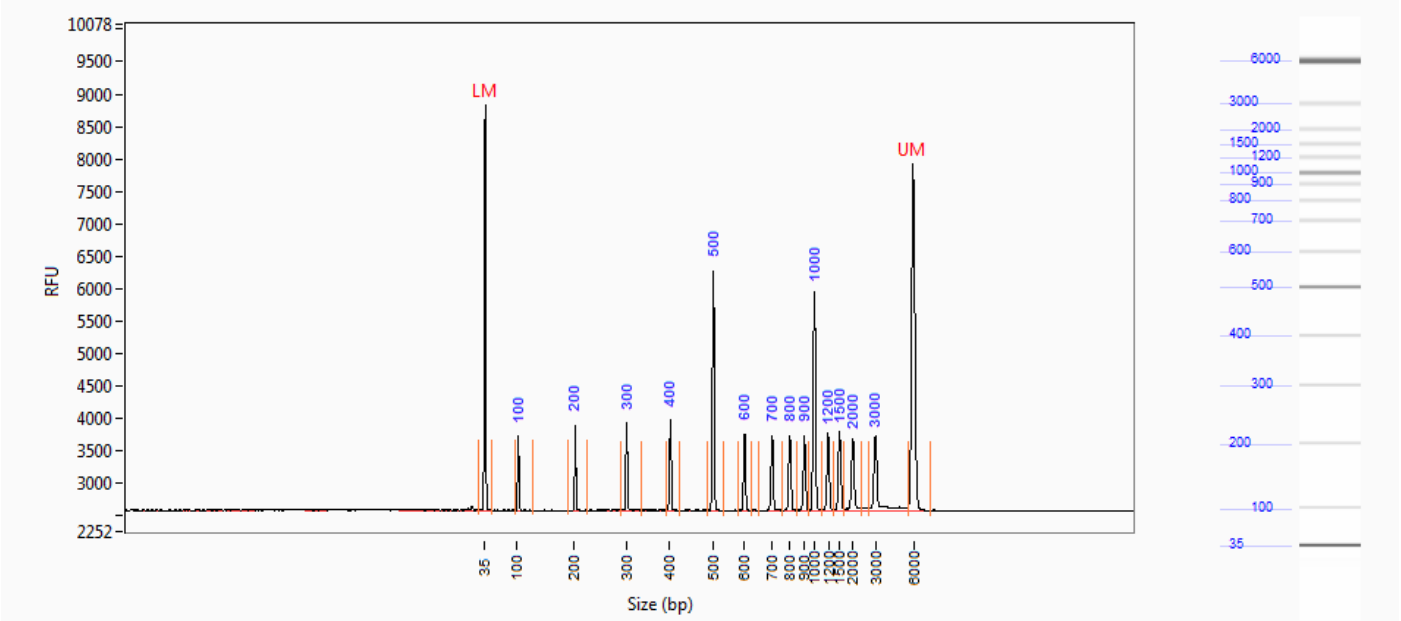
Sample: Ladder
Well Location: C12
Created: 04 July, 2014 16:43:04



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.257	24	50	34	4.32	6246	28.778
2	100	0.832	94	127	100	1.68	1138	4.514
3	200	0.444	189	226	200	0.90	1311	4.806
4	300	0.311	290	334	300	1.22	1342	5.050
5	400	0.232	392	423	399	0.54	1393	5.019
6	500	0.498	489	533	500	0.52	3688	13.470
7	600	0.140	583	628	600	0.57	1183	4.540
8	700	0.122	655	762	699	0.97	1158	4.618
9	800	0.107	762	846	797	0.87	1153	4.617
10	900	0.095	846	949	898	1.03	1150	4.642
11	1000	0.252	949	1110	996	1.35	3370	13.648
12	1200	0.076	1110	1337	1196	2.00	1191	4.958
13	1500	0.064	1337	1680	1493	2.70	1212	5.185
14	2000	0.049	1680	2364	1990	4.41	1109	5.257
15	3000	0.044	2743	5595	3332	20.06	1143	7.135
16	6000 (UM)	0.007	5595	7395	6006	2.34	5356	26.855

TIC:	0.9819	ng/uL
TIM:	3.265	nmole/L
Total Conc.:	0.9960	ng/uL

```
Sample Peak Width (sec): 10   Sample Min Peak Height: 100   Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial       # of Pts for Filter: 3       Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10     Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 500 RFU               Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 35, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder          Final Concentration (ng/uL): 0.0830          Dilution Factor: 12.0
```

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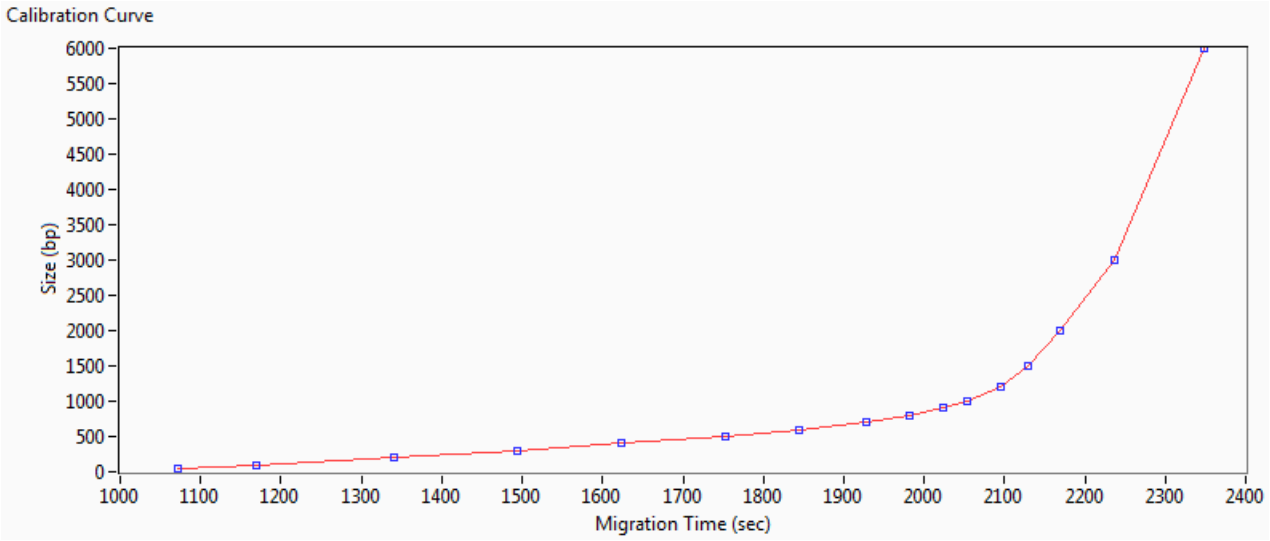
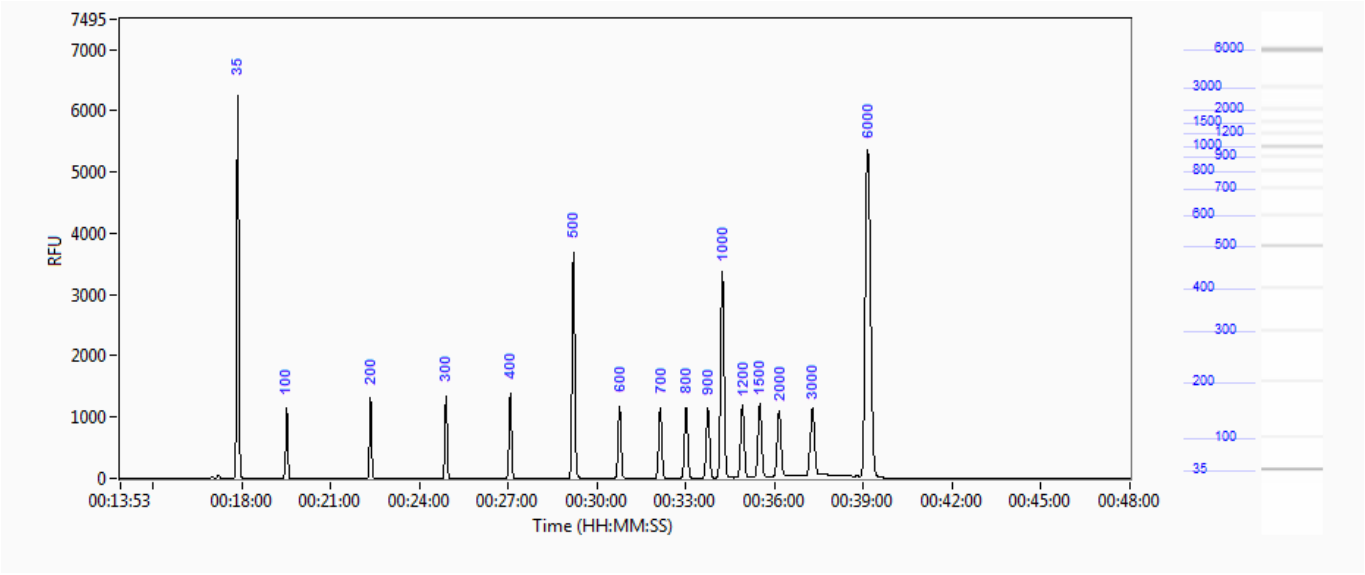
Sample: Ladder
Well Location: C12
Created: 04 July, 2014 16:43:04
Fit Type: Point to Point





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