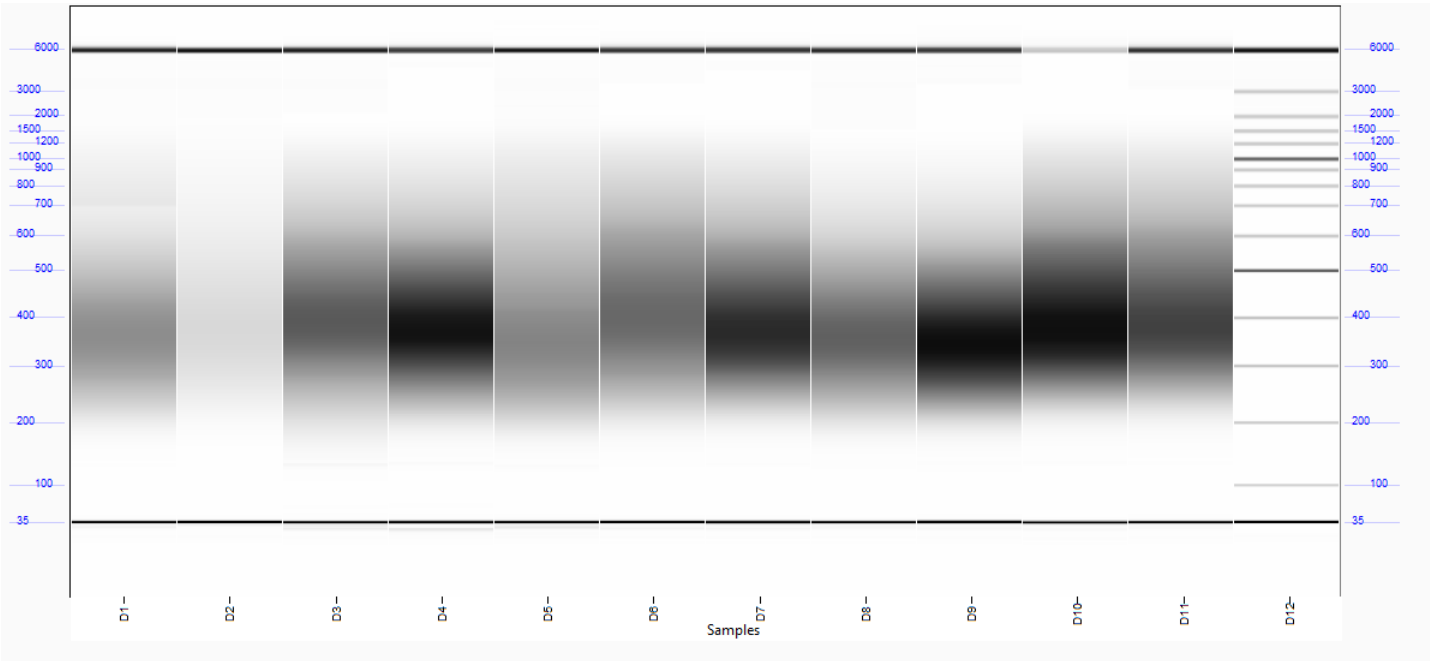
Fragment Analyzer Run Summary:

Filename and Data Path: C:\AATI\Data\2014 07 04\17-33-14\2014 07 04 17H 33M.raw
Created: 04 July, 2014 17:48:54
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 138
FA Version #: 1.0.2.9
Device Serial #: 2764

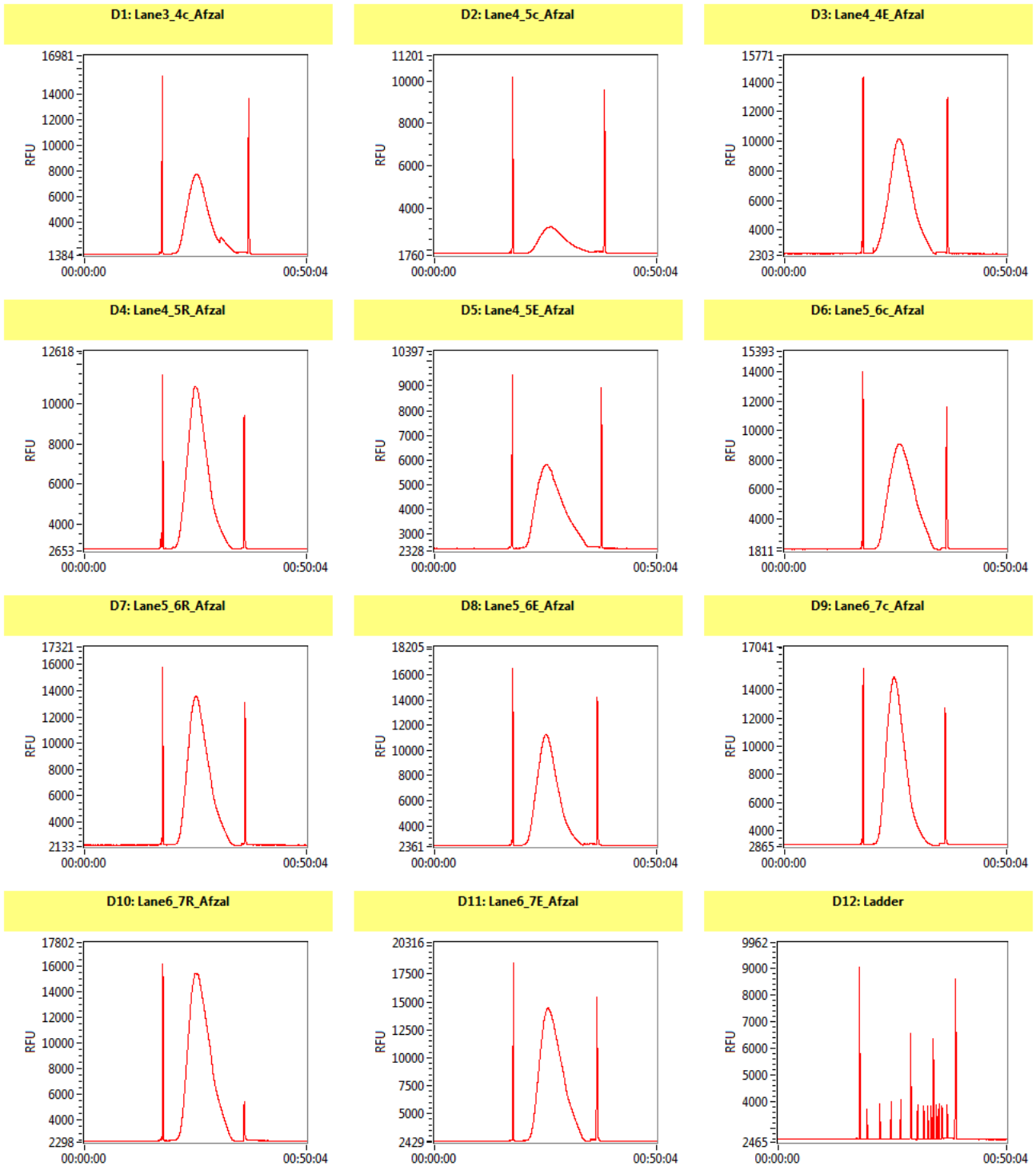
METHOD INFORMATION
Method Name: DNF-486-33 - HS NGS Fragment 35-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, # Dips: 1
Sample Injection: 5.0 kV, 30 sec.
Separation: 6.0 kV,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

Analysis Mode: NGS

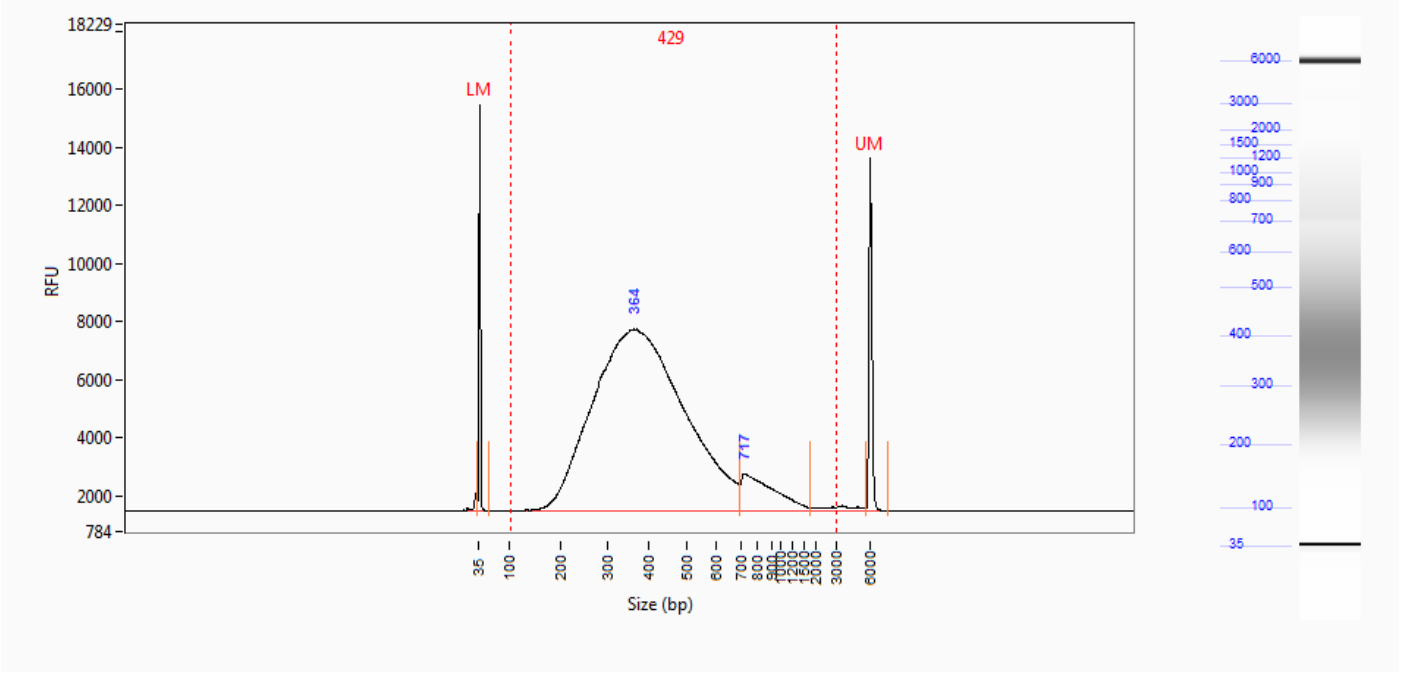
NOTE



Filename and Data Path: C:\AATI\Data\2014 07 04\17-33-14\2014 07 04 17H 33M.raw



Sample: Lane3_4c_Afzal
Well Location: D1
Created: 04 July, 2014 17:48:54



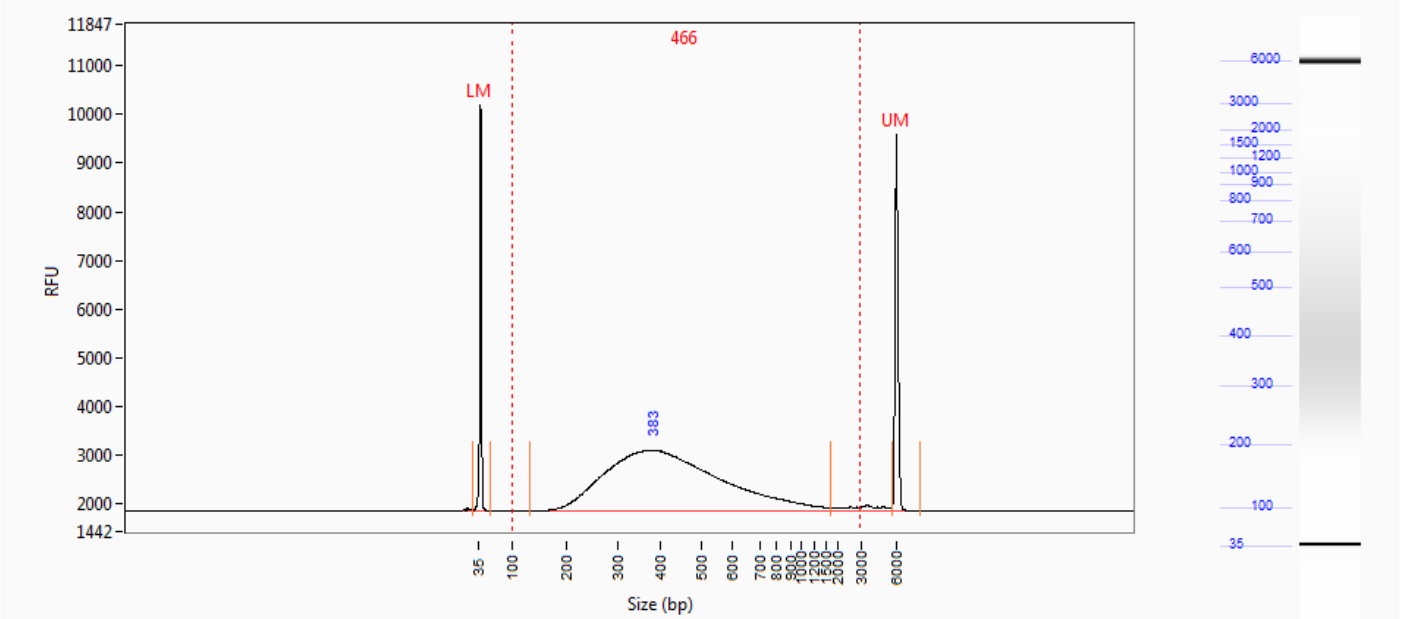
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	30	57	34	5.04	13950	66.054
2	364	30.142	57	693	387	27.50	6254	1300.038
3	717	0.904	693	1816	889	22.21	1281	76.804
4	6000 (UM)	0.007	5642	7611	6027	2.54	12146	58.485

TIC:	7.0562	ng/uL	
TIM:	31.046	nmole/L	
Total Conc.:	7.1034	ng/uL	

Smear Analysis 100 bp to 3000 bp 7.073 ng/ul 99.6 %Total 27.1401 nmole/L 429 Avg. Size (b.p.) 49.37 %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: 600   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
```


Sample: Lane4_5c_Afzal
Well Location: D2
Created: 04 July, 2014 17:48:54



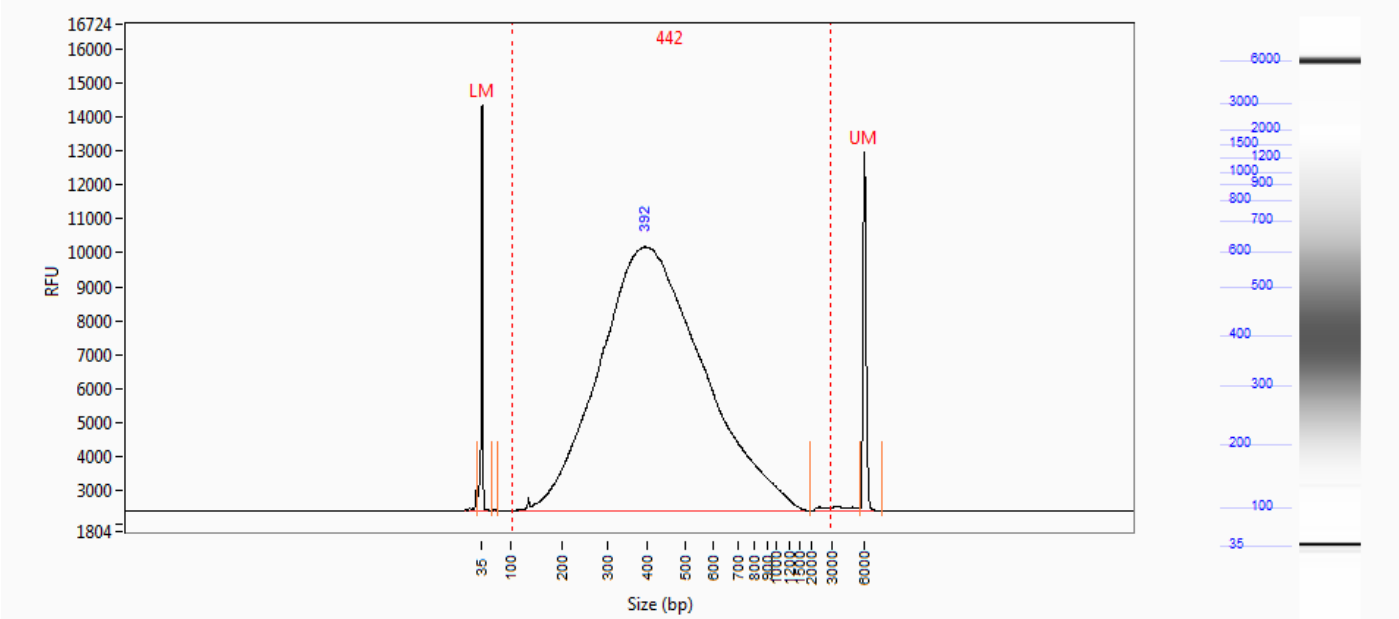
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	20	57	34	6.15	8317	42.350
2	383	10.625	133	1737	446	40.41	1245	309.409
3	6000 (UM)	0.006	5615	8021	5992	2.24	7708	35.558

TIC:	2.4732	ng/uL
TIM:	10.625	nmole/L
Total Conc.:	2.5178	ng/uL

Smear Analysis	100 bp to 3000 bp	2.492 ng/ul	99.0 %Total	8.8003 nmole/L	466 Avg. Size (b.p.)	57.50 %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
```


Sample: Lane4_4E_Afzal
Well Location: D3
Created: 04 July, 2014 17:48:54



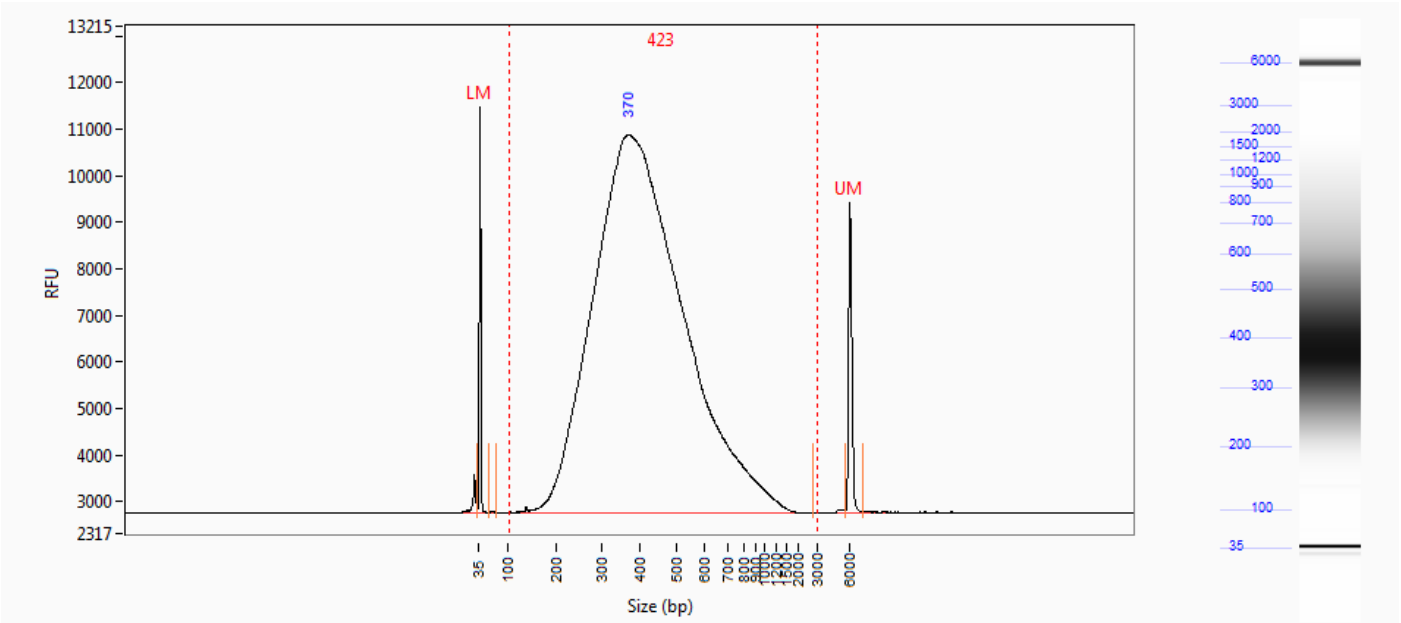
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	26	56	34	7.10	11928	61.716
2	392	41.210	72	2001	438	36.74	7772	1791.270
3	6000 (UM)	0.006	5615	7639	6015	2.62	10575	51.628

TIC:	9.8253	ng/uL
TIM:	41.210	nmole/L
Total Conc.:	9.8626	ng/uL

Smear Analysis	100 bp to 3000 bp	9.829 ng/ul	99.7 %Total	36.6041 nmole/L	442 Avg. Size (b.p.)	41.62 %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: 1000  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
```


Sample: Lane4_5R_Afzal
Well Location: D4
Created: 04 July, 2014 17:48:54



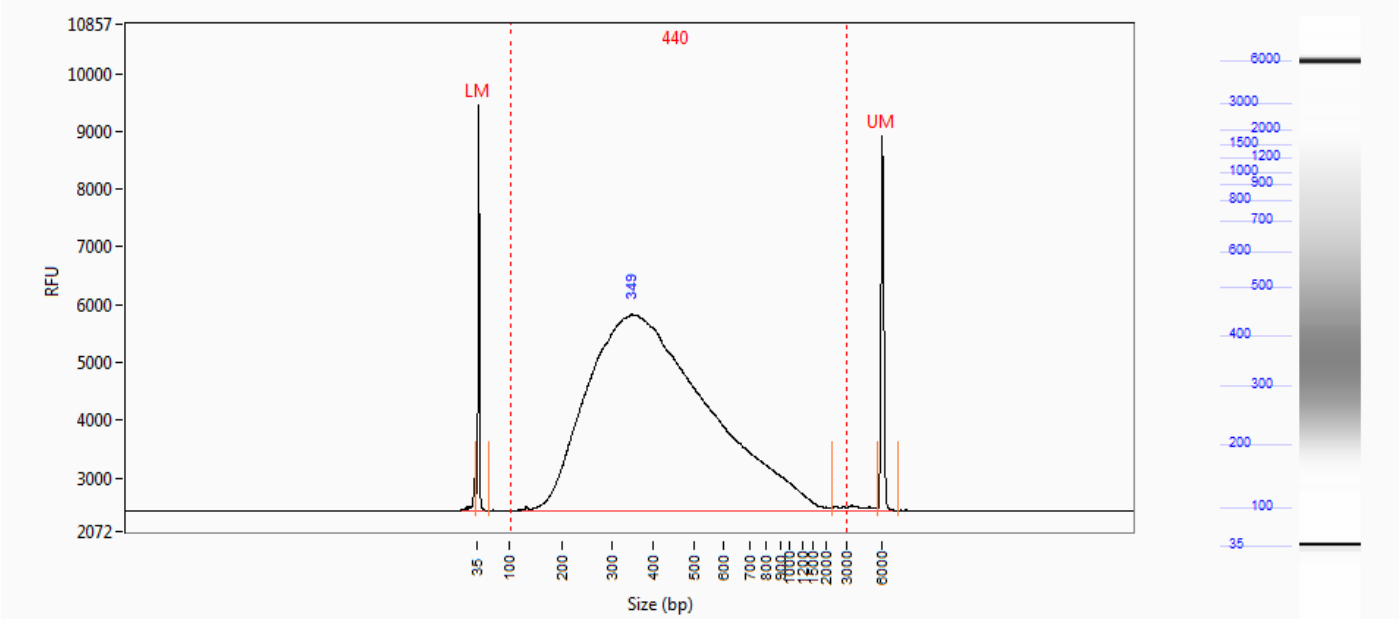
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	30	56	34	5.58	8706	40.500
2	370	61.566	73	2758	423	34.77	8119	1655.801
3	6000 (UM)	0.007	5587	7256	6028	2.83	6670	35.334

TIC:	13.8399	ng/uL
TIM:	61.566	nmole/L
Total Conc.:	13.8473	ng/uL

Smear Analysis	100 bp to 3000 bp	13.829 ng/ul	99.9 %Total	53.7759 nmole/L	423 Avg. Size (b.p.)	34.76 %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
```


Sample: Lane4_5E_Afzal
Well Location: D5
Created: 04 July, 2014 17:48:54



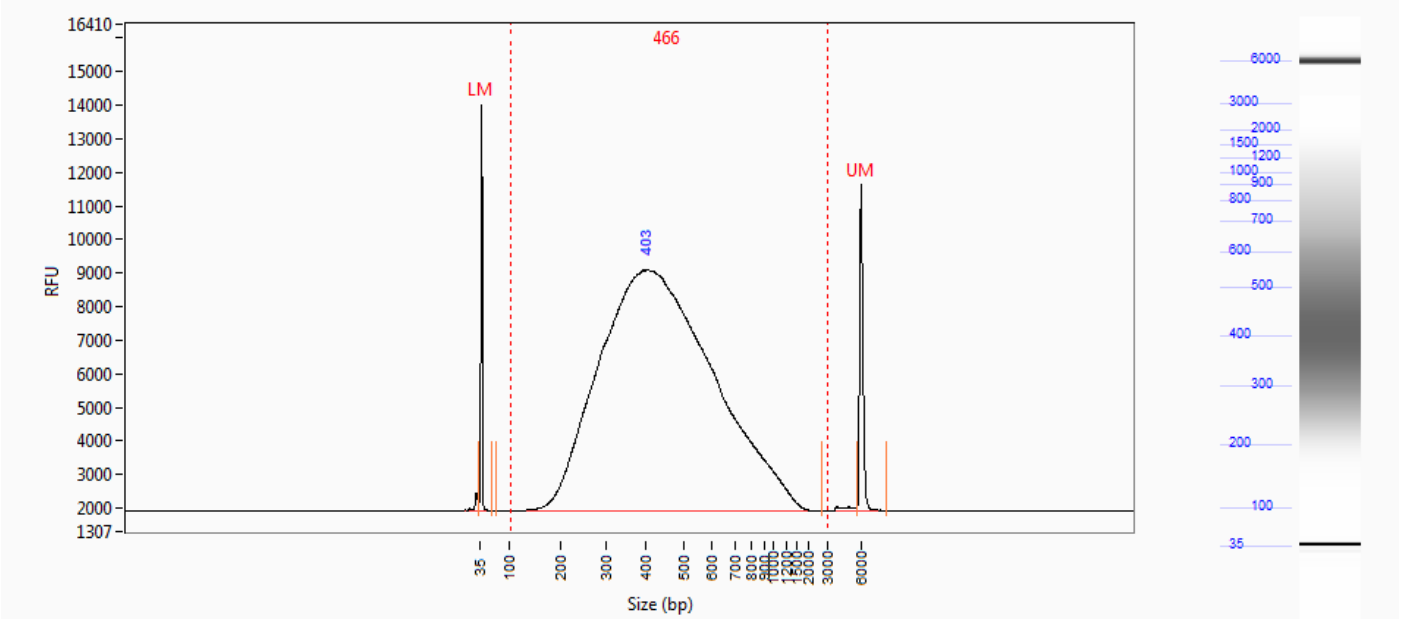
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	30	58	34	5.39	7021	34.781
2	349	41.688	58	2334	436	45.42	3401	908.536
3	6000 (UM)	0.007	5615	7338	6009	2.34	6482	29.633

TIC:	8.8426	ng/uL
TIM:	41.688	nmole/L
Total Conc.:	8.8813	ng/uL

Smear Analysis	100 bp to 3000 bp	8.850 ng/ul	99.6 %Total	33.0574 nmole/L	440 Avg. Size (b.p.)	50.00 %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
```


Sample: Lane5_6c_Afzal
Well Location: D6
Created: 04 July, 2014 17:48:54



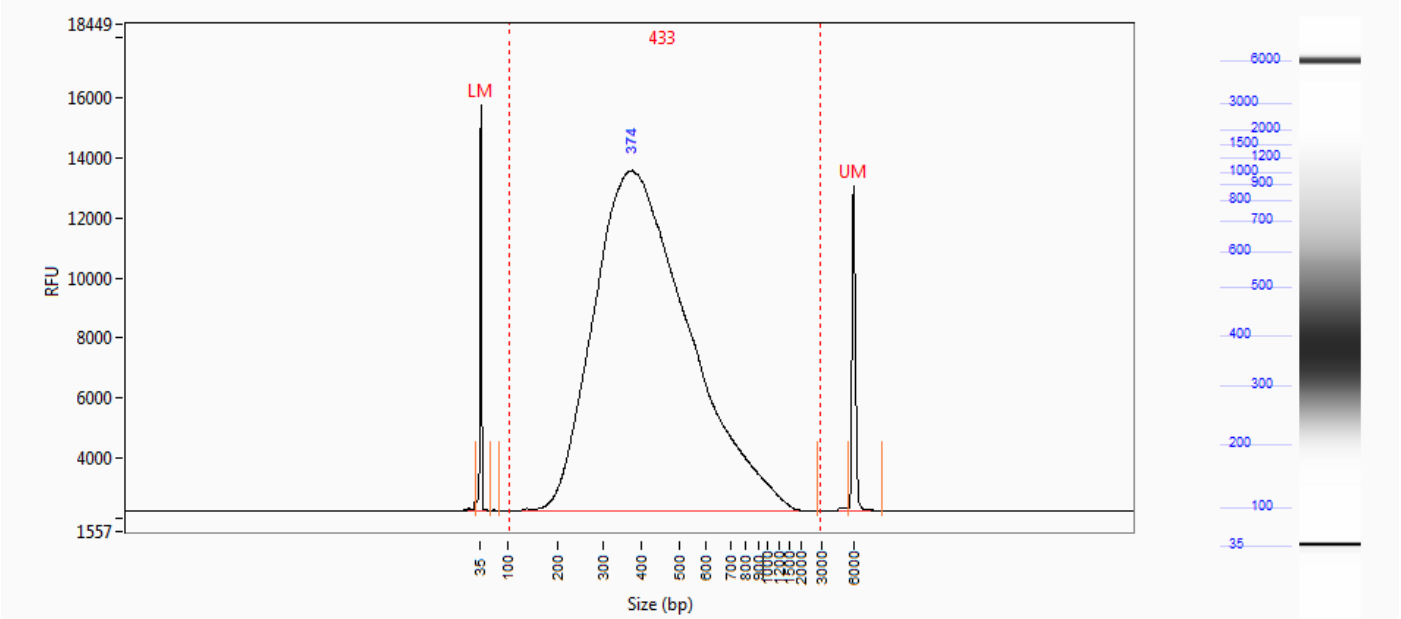
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	30	58	35	5.25	12070	57.459
2	403	43.452	69	2728	466	39.32	7163	1804.592
3	6000 (UM)	0.007	5587	8376	6039	3.60	9694	51.553

TIC:	10.6317	ng/uL	
TIM:	43.452	nmole/L	
Total Conc.:	10.6483	ng/uL	

Smear Analysis	100 bp to 3000 bp	10.632 ng/ul	99.8 %Total	37.5467 nmole/L	466 Avg. Size (b.p.)	39.32 %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
```


Sample: Lane5_6R_Afzal
Well Location: D7
Created: 04 July, 2014 17:48:54



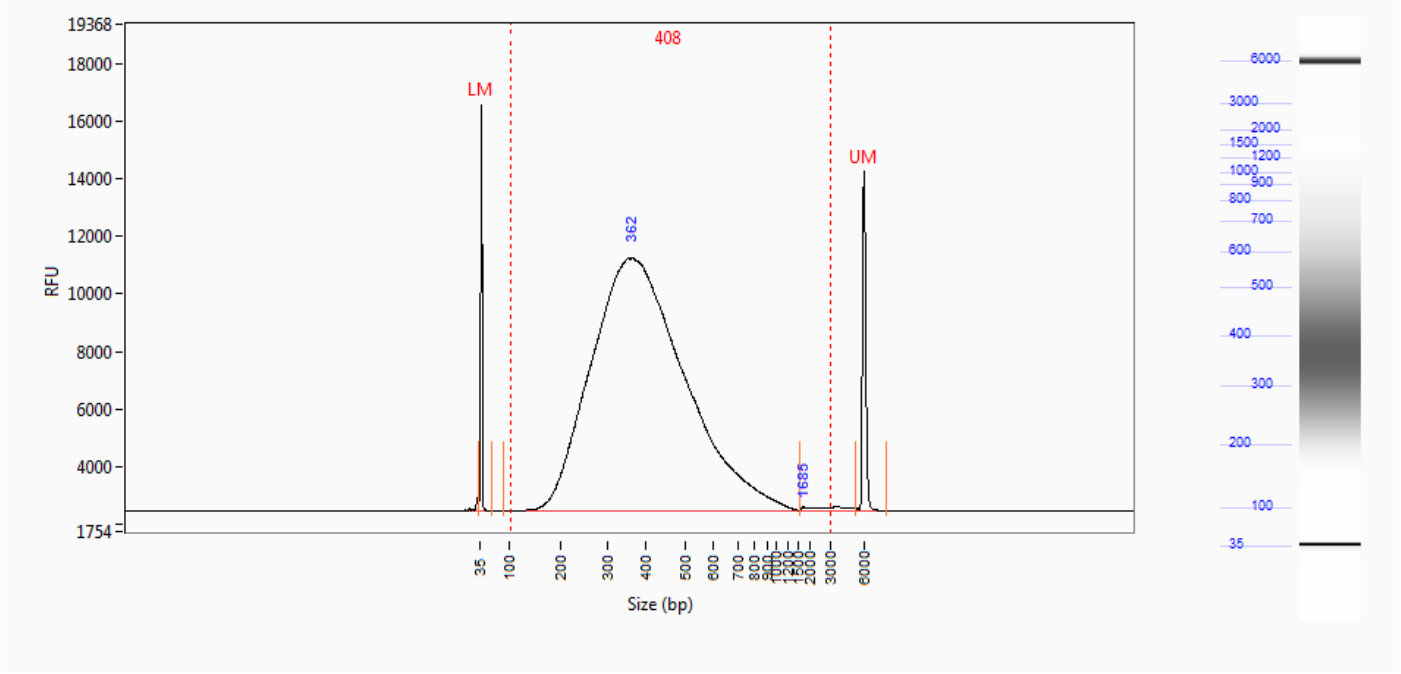
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	26	57	34	6.42	13494	65.171
2	374	55.002	79	2818	433	36.04	11327	2410.196
3	6000 (UM)	0.007	5587	8731	6049	3.71	10828	59.249

TIC:	12.5193	ng/uL	
TIM:	55.002	nmole/L	
Total Conc.:	12.5271	ng/uL	

Smear Analysis	100 bp to 3000 bp	12.514 ng/ul	99.9 %Total	47.5231 nmole/L	433 Avg. Size (b.p.)	36.03 %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
```


Sample: Lane5_6E_Afzal
Well Location: D8
Created: 04 July, 2014 17:48:54



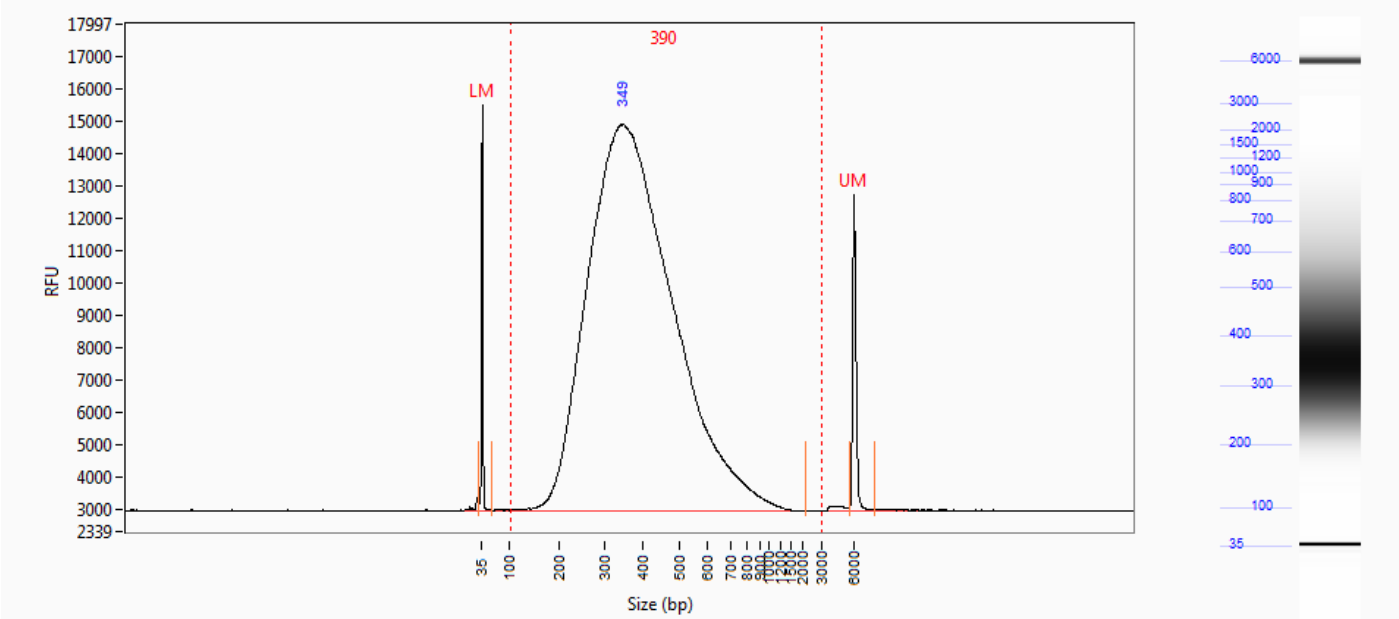
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	29	58	34	5.11	14082	66.983
2	362	42.685	84	1527	402	33.63	8786	1858.957
3	1685	0.042	1527	5312	3118	33.95	147	8.429
4	6000 (UM)	0.007	5312	8048	6009	3.09	11772	60.599

TIC:	9.4374	ng/uL	
TIM:	42.726	nmole/L	
Total Conc.:	9.4376	ng/uL	

Smear Analysis 100 bp to 3000 bp 9.412 ng/ul 99.7 %Total 37.9761 nmole/L 408 Avg. Size (b.p.) 42.10 %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
```


Sample: Lane6_7c_Afzal
Well Location: D9
Created: 04 July, 2014 17:48:54



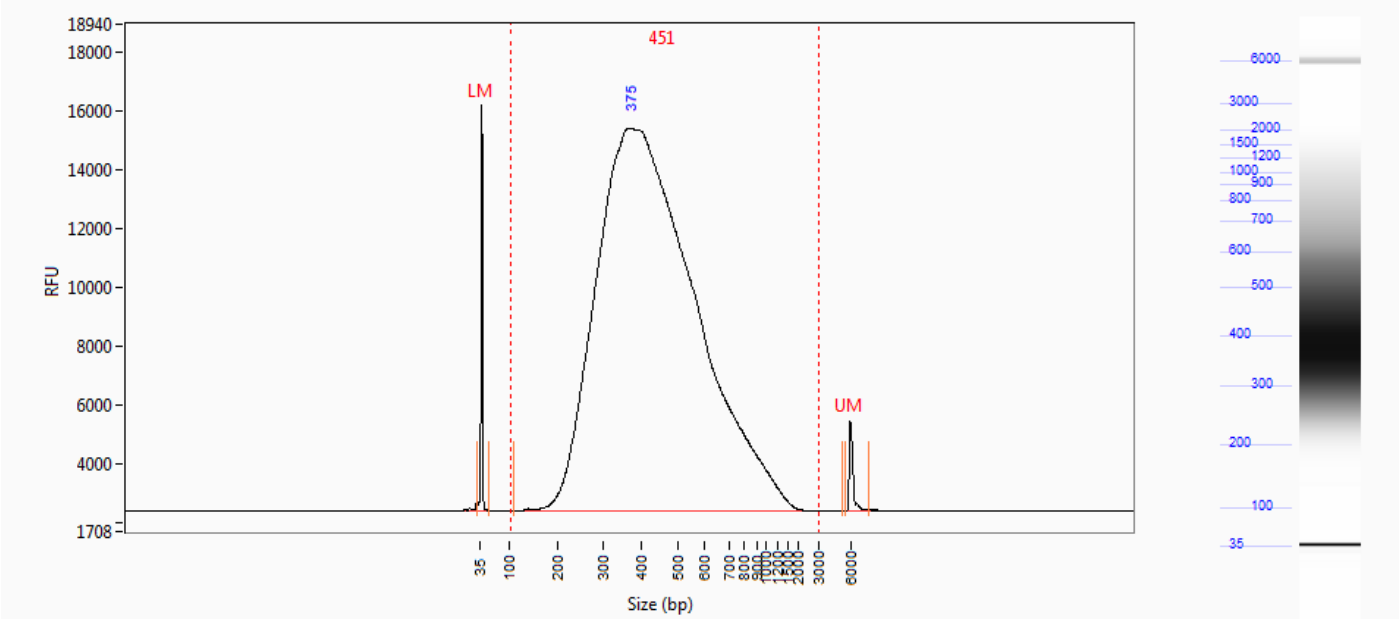
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	30	59	35	5.87	12504	59.100
2	349	62.906	59	2213	390	31.86	11934	2329.486
3	6000 (UM)	0.007	5587	7967	6043	3.53	9738	52.991

TIC:	13.3432	ng/uL	
TIM:	62.906	nmole/L	
Total Conc.:	13.3615	ng/uL	

Smear Analysis	100 bp to 3000 bp	13.336 ng/ul	99.8 %Total	56.3128 nmole/L	390 Avg. Size (b.p.)	31.84 %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
```


Sample: Lane6_7R_Afzal
Well Location: D10
Created: 04 July, 2014 17:48:54



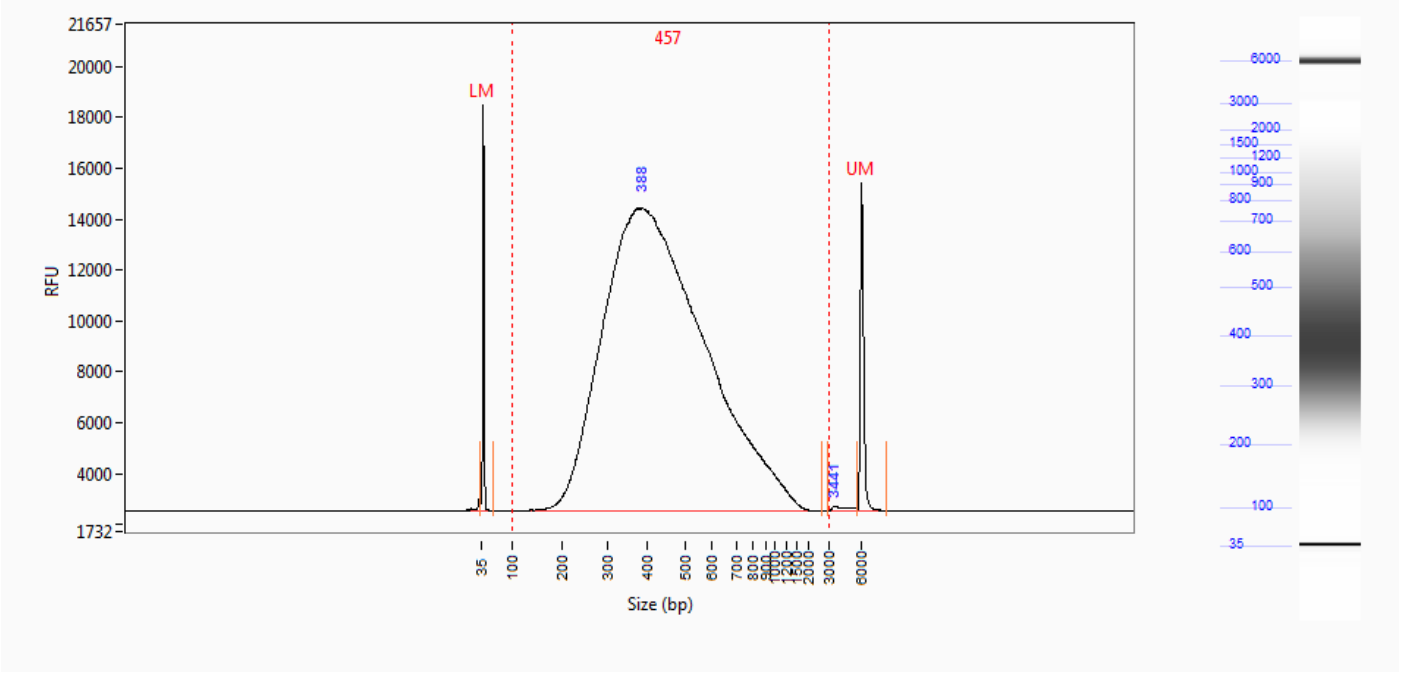
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	26	54	34	5.86	13768	64.972
2	375	65.431	110	5340	451	37.37	13000	2864.295
3	6000 (UM)	0.002	5615	7830	6098	4.75	3063	18.051

TIC:	14.9237	ng/uL
TIM:	65.431	nmole/L
Total Conc.:	14.9256	ng/uL

Smear Analysis	100 bp to 3000 bp	14.918 ng/ul	100.0 %Total	54.4853 nmole/L	451 Avg. Size (b.p.)	37.37 %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
```


Sample: Lane6_7E_Afzal
Well Location: D11
Created: 04 July, 2014 17:48:54



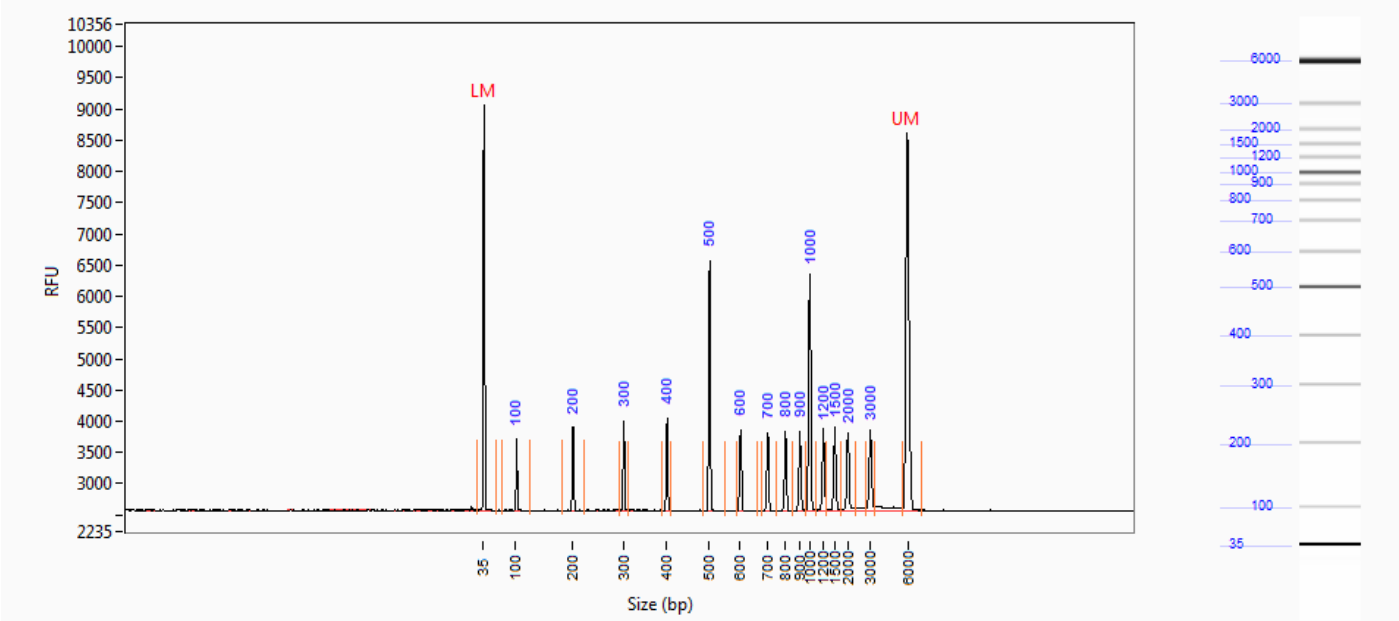
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	29	58	34	5.55	15929	76.127
2	388	50.365	58	2637	457	37.24	11917	2673.780
3	3441	0.010	2939	5587	4264	15.81	174	4.489
4	6000 (UM)	0.007	5587	8294	6044	3.77	12851	68.074

TIC:	11.9096	ng/uL	
TIM:	50.374	nmole/L	
Total Conc.:	11.9096	ng/uL	

Smear Analysis	100 bp to 3000 bp	11.881 ng/ul	99.8 %Total	42.7841 nmole/L	457 Avg. Size (b.p.)	37.23 %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
```


Sample: Ladder
Well Location: D12
Created: 04 July, 2014 17:48:54



Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	35 (LM)	1.317	24	62	35	4.35	6482	30.218
2	100	0.858	72	124	100	1.99	1139	4.662
3	200	0.454	181	225	200	0.85	1327	4.925
4	300	0.306	293	310	300	0.52	1435	4.985
5	400	0.234	391	410	399	0.45	1480	5.073
6	500	0.503	487	550	499	0.43	3985	13.648
7	600	0.140	589	661	599	0.49	1289	4.548
8	700	0.117	680	753	699	0.54	1248	4.438
9	800	0.105	753	854	799	0.70	1264	4.573
10	900	0.095	854	958	897	0.84	1267	4.621
11	1000	0.255	958	1100	996	1.15	3781	13.814
12	1200	0.076	1100	1292	1194	1.55	1309	4.918
13	1500	0.065	1292	1724	1489	2.90	1339	5.286
14	2000	0.048	1724	2349	1992	3.76	1249	5.205
15	3000	0.033	2773	3304	2986	2.43	1300	5.394
16	6000 (UM)	0.007	5642	7174	6001	2.16	6033	27.927

TIC:	0.9644	ng/uL
TIM:	3.287	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
```


Sample: Ladder
Well Location: D12
Created: 04 July, 2014 17:48:54
Fit Type: Point to Point