Instrument controller software run summary:

Filename and data path: C:\Agilent Technologies\Data\2021 11 01\14-29-08\2021 11 01 14H 29M.raw
Created: Monday, November 1, 2021 2:55:05 PM
Number of capillaries: 10
Array serial number: 022621-27SFS
Effect length: 33 cm
Array usage count: 31
Instrument type: 5300 Fragment Analyzer
Instrument controller software version: 3.1.0.12
Device serial number: MY2105AB19

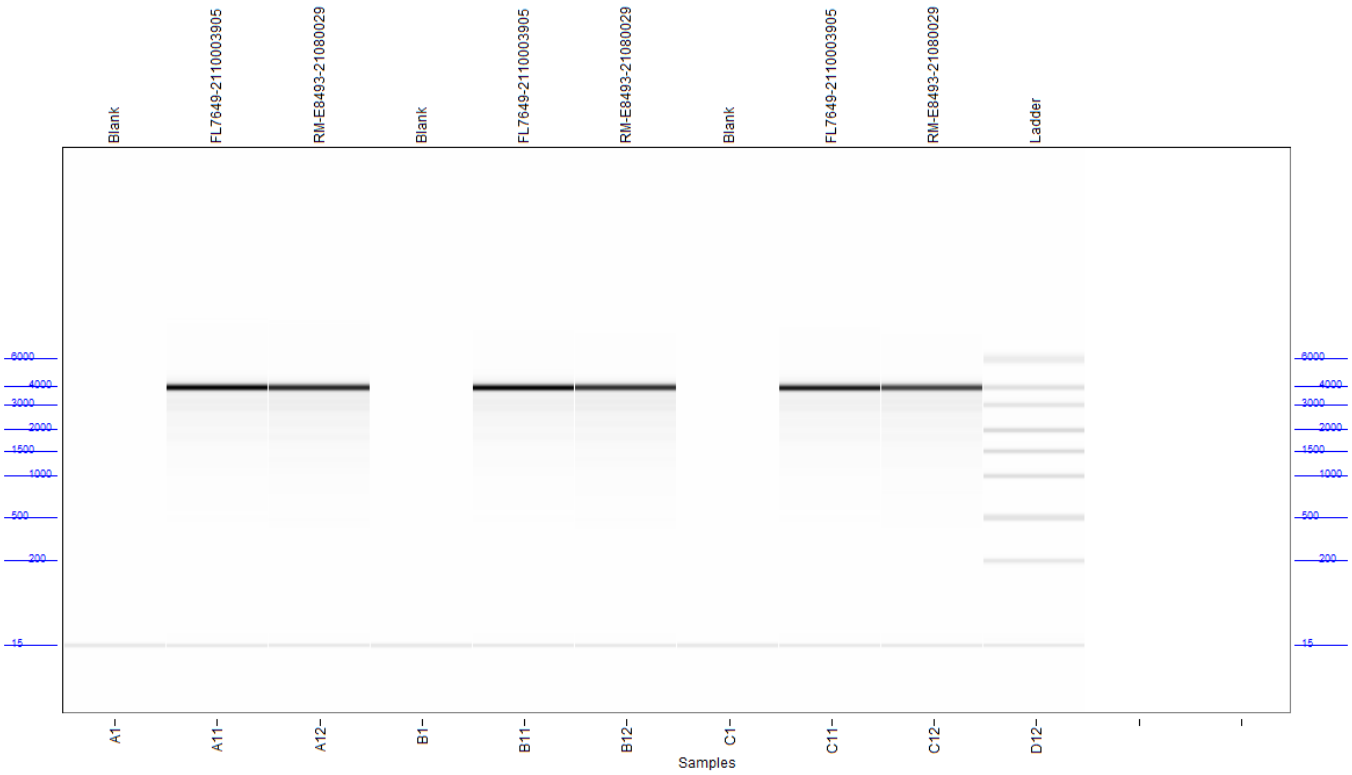
Method Information

Method name: DNF-471E33 - SS Total RNA 15nt Extended.mthds
Gel prime: No
Full conditioning: Yes
Gel prime to buffer: Yes
Gel selection: Gel 2
Perform prerun: 8.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, Dip count: 2
Sample injection: 5.0 kV, 6 sec.
Separation: 8.0 kV, 60.0 min.
Tray name: Tray-1

Analysis mode: RNA (Eukaryotic)

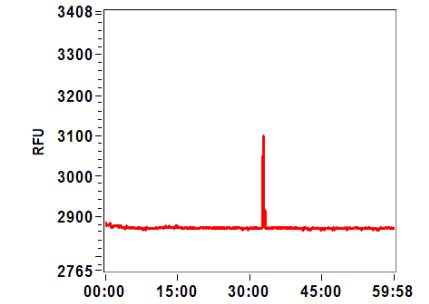
Notes

Gel Image

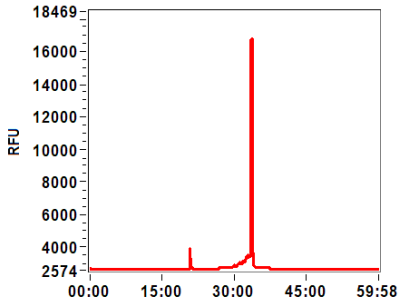

Blank
FL7649-2110003905
RM-E8493-21080029
Blank
FL7649-2110003905
RM-E8493-21080029
Blank
FL7649-2110003905
RM-E8493-21080029
Ladder
6000
4000
3000
2000
1500
1000
500
200
15
A1
A11
A12
B1
B11
B12
C1
C11
C12
D12
Samples

Filename and data path: C:\Agilent Technologies\Data\2021 11 01\14-29-08\2021 11 01 14H 29M.raw

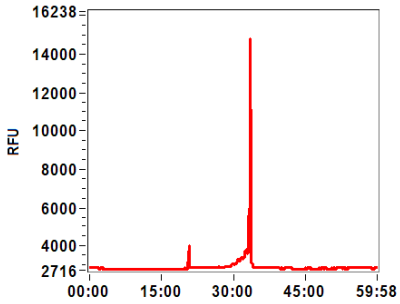
A1: Blank
RQN: 1.0



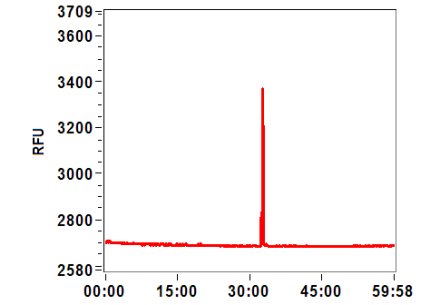
A11: FL7649-2110003905
RQN: 10.0



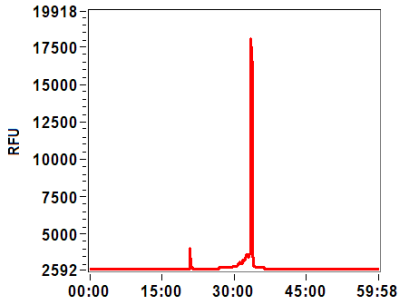
A12: RM-E8493-2108002914
RQN: 10.0



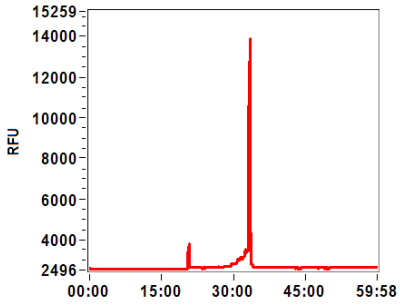
B1: Blank
RQN: 1.0



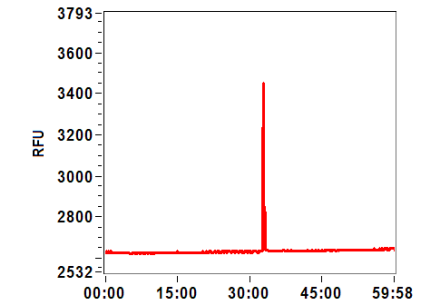
B11: FL7649-2110003905
RQN: 10.0



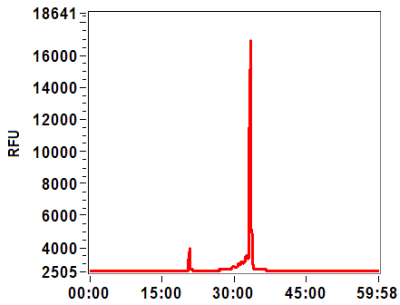
B12: RM-E8493-2108002914
RQN: 10.0



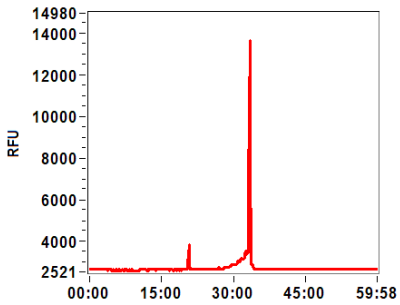
C1: Blank
RQN: 1.0



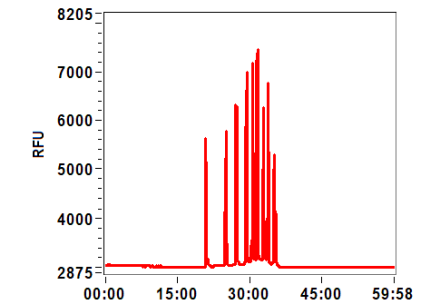
C11: FL7649-2110003905
RQN: 10.0



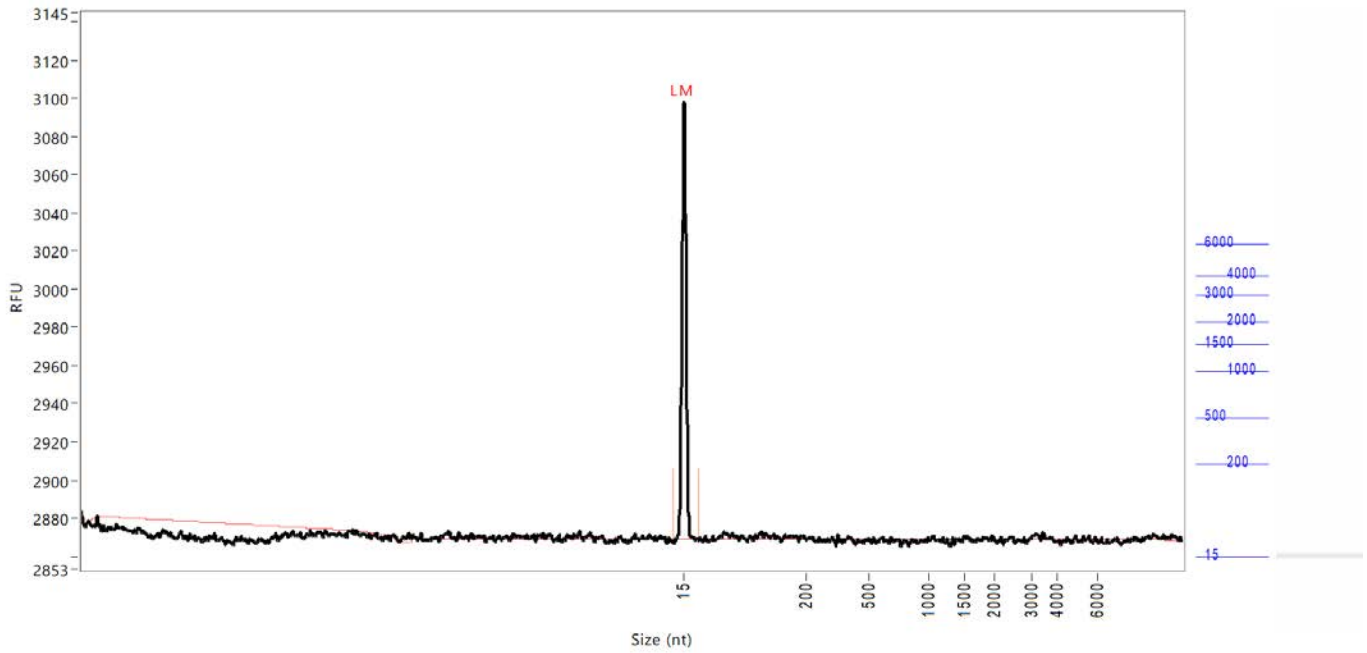
C12: RM-E8493-2108002914
RQN: 10.0



D12: Ladder



Sample: Blank
Well location: A1
Created: Monday, November 1, 2021 2:55:05 PM



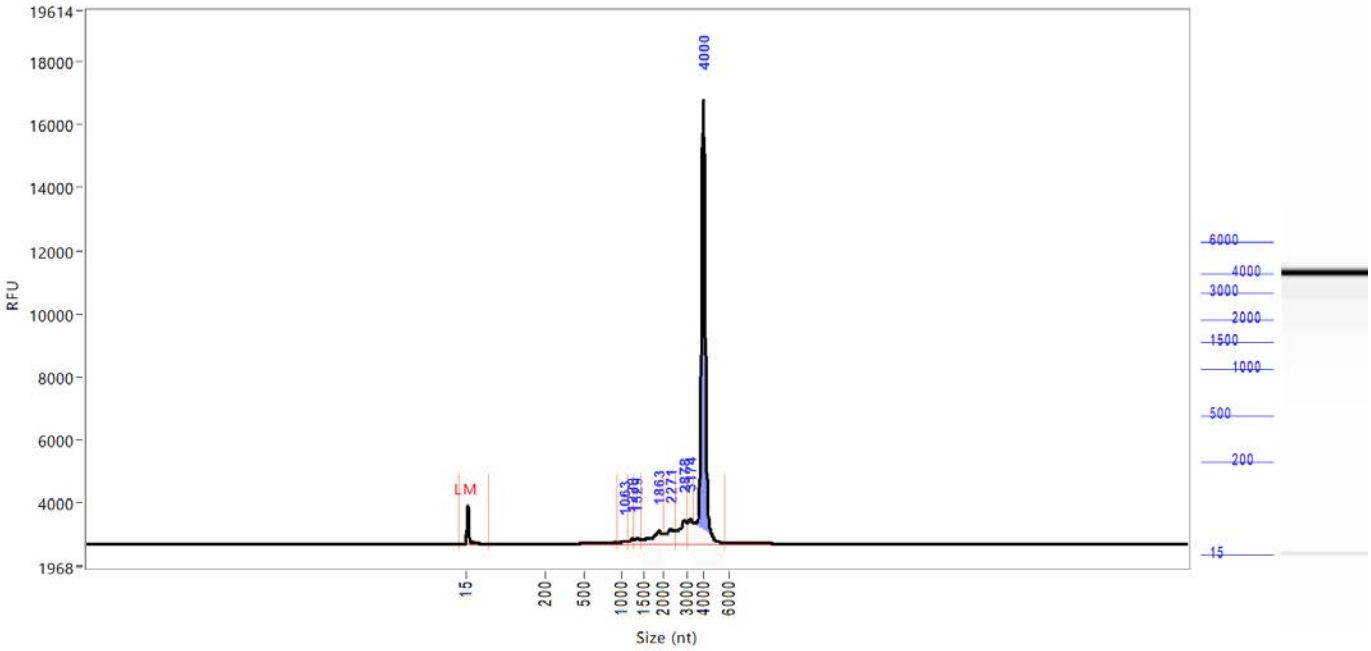
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	37	227

TIC:	0.0000	ng/uL
TIM:	0.0000	nmole/L
Total concentration:	0.0805	ng/uL
28s/18s:	0.0	
RQN	1.0	

Smear Analysis						
	3700 nt to 4800 nt	0.0000 ng/ul	0.0 %Total	NaN nmole/L	NaN Avg. Size (nt)	NaN %CV
	4800 nt to 13000 nt	0.0114 ng/ul	14.1 %Total	0.0037 nmole/L	9597 Avg. Size (nt)	3.84 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: FL7649-2110003905
Well location: A11
Created: Monday, November 1, 2021 2:55:05 PM



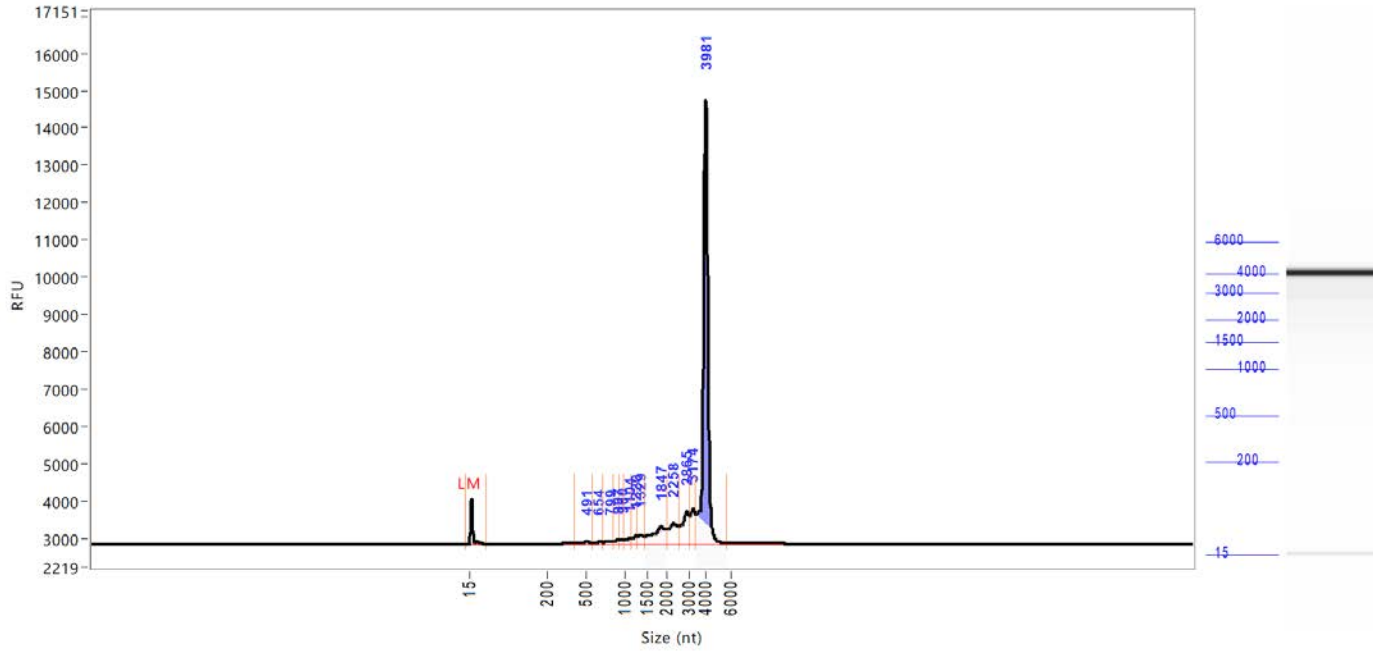
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	67	1214
2	1063	1.4211	932	1124	91
3	1220	1.3833	1124	1261	171
4	1329	2.0618	1261	1432	192
5	1863	8.8165	1432	2001	404
6	2271	6.7813	2001	2487	459
7	2878	10.0099	2487	3000	772
8	3174	7.1585	3000	3385	816
9	4000	99.6443	3385	5659	14106

TIC:	137.2766	ng/uL
TIM:	133.8145	nmole/L
Total concentration:	142.5574	ng/uL
28s/18s:	77.7	
RQN	10.0	

Smear Analysis						
	3700 nt to 4800 nt	93.2228 ng/ul	65.4 %Total	72.6053 nmole/L	4006 Avg. Size (nt)	3.89 %CV
	4800 nt to 13000 nt	4.3764 ng/ul	3.1 %Total	1.9670 nmole/L	6942 Avg. Size (nt)	25.16 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: RM-E8493-2108002914
Well location: A12
Created: Monday, November 1, 2021 2:55:05 PM



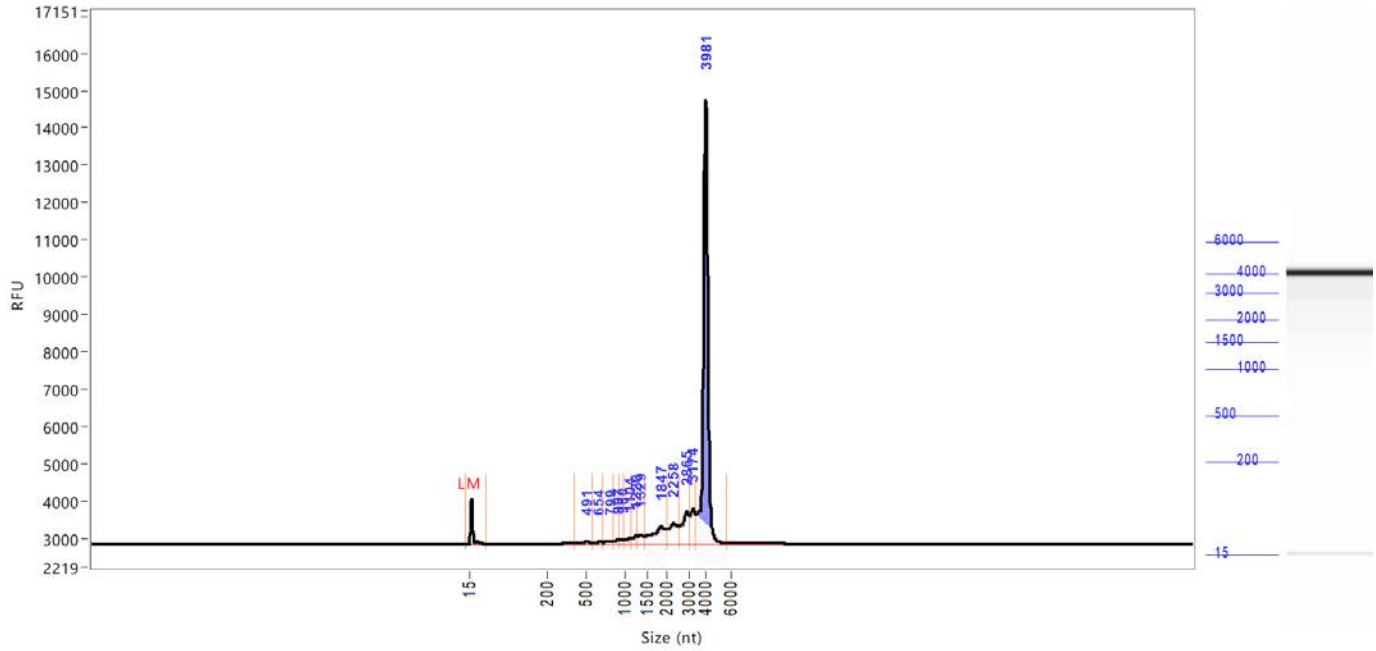
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	52	1200
2	491	1.4239	401	561	83
3	654	0.9893	561	702	60
4	799	1.2515	702	835	88
5	907	1.1797	835	928	104
6	960	0.7675	928	980	107
7	1104	1.7198	980	1131	141
8	1220	1.9399	1131	1261	228
9	1329	3.0021	1261	1438	256
10	1847	11.5326	1438	1992	472
11	2258	9.1480	1992	2500	547
12	2865	11.5169	2500	3000	880
13	3174	8.2230	3000	3366	940
14	3981	93.1453	3366	5683	11936

TIC:	145.8394	ng/uL
TIM:	170.3932	nmole/L
Total concentration:	148.6963	ng/uL
28s/18s:	64.6	
RQN	10.0	

Smear Analysis	3700 nt to 4800 nt	85.2611 ng/ul	57.3 %Total	66.5558 nmole/L	3997 Avg. Size (nt)	3.81 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

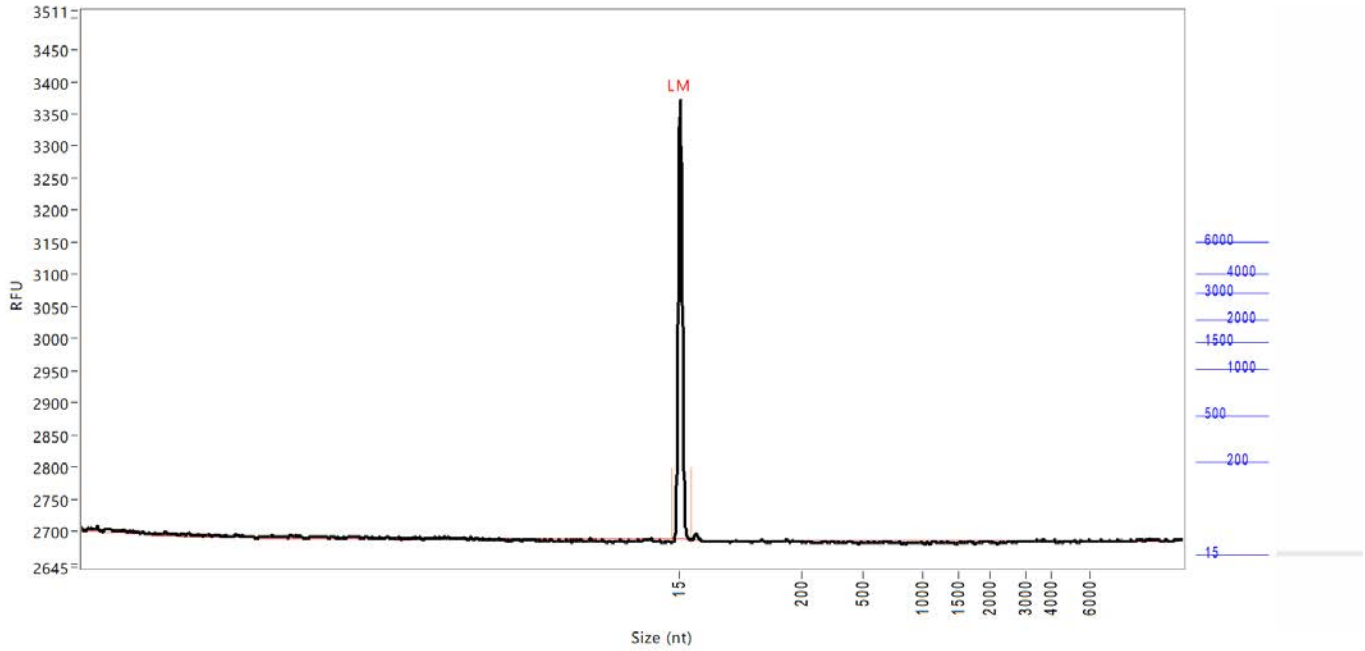
Sample: RM-E8493-2108002914
Well location: A12
Created: Monday, November 1, 2021 2:55:05 PM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU			
	4800 nt to 13000 nt	3.6783 ng/ul	2.5 %Total		1.5588 nmole/L		7362 Avg. Size (nt)	26.05 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: Blank
Well location: B1
Created: Monday, November 1, 2021 2:55:05 PM



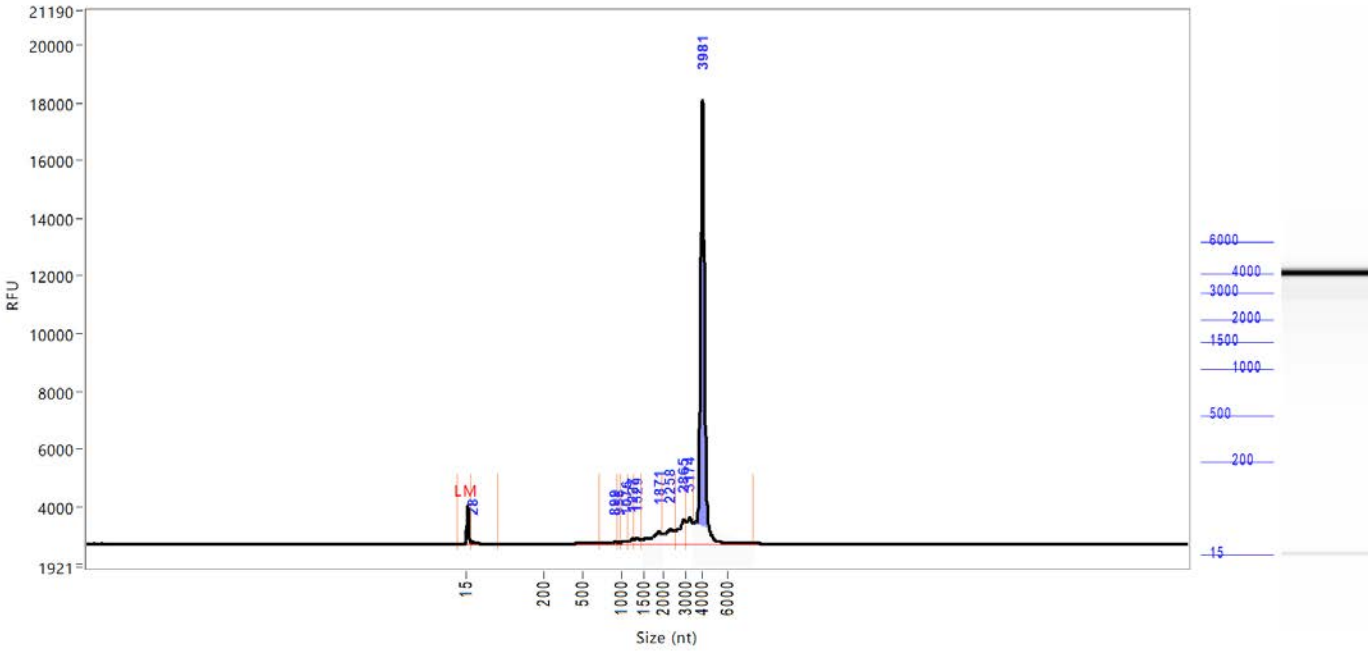
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	2	33	682

TIC:	0.0000	ng/uL
TIM:	0.0000	nmole/L
Total concentration:	0.0444	ng/uL
28s/18s:	0.0	
RQN	1.0	

Smear Analysis	3700 nt to 4800 nt	0.0000 ng/ul	0.0 %Total	NaN nmole/L	NaN Avg. Size (nt)	NaN %CV
	4800 nt to 13000 nt	0.0035 ng/ul	7.8 %Total	0.0012 nmole/L	9317 Avg. Size (nt)	4.66 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: FL7649-2110003905
Well location: B11
Created: Monday, November 1, 2021 2:55:05 PM



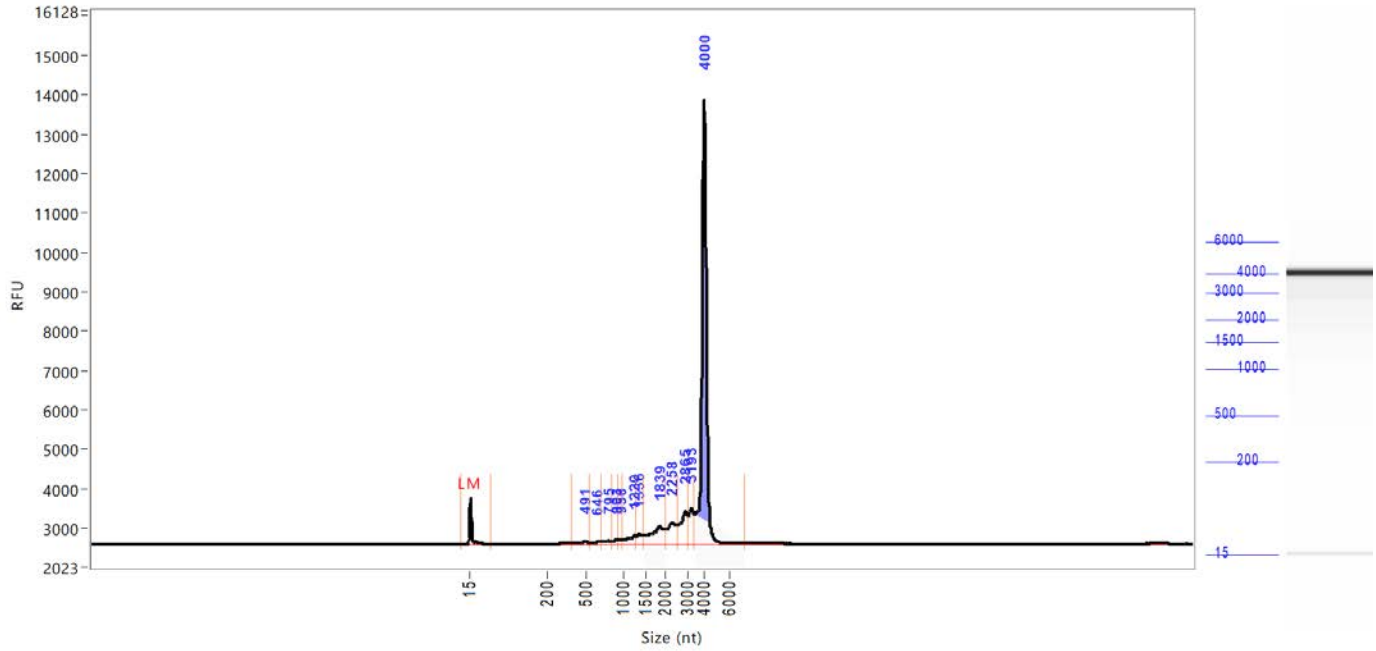
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	23	1323
2	28	1.3847	23	87	80
3	899	1.6853	694	932	74
4	956	0.4323	932	976	68
5	1076	1.2242	976	1131	100
6	1227	1.6089	1131	1268	183
7	1329	2.3980	1268	1438	206
8	1871	9.7421	1438	1976	438
9	2258	8.8111	1976	2487	506
10	2865	11.8221	2487	2986	862
11	3174	8.9816	2986	3404	910
12	3981	118.8979	3404	8001	15399

TIC:	166.9882	ng/uL
TIM:	280.0853	nmole/L
Total concentration:	168.0623	ng/uL
28s/18s:	88.1	
RQN	10.0	

Smear Analysis						
	3700 nt to 4800 nt	109.3020 ng/ul	65.0 %Total	85.3384 nmole/L	3996 Avg. Size (nt)	3.93 %CV
	4800 nt to 13000 nt	4.3746 ng/ul	2.6 %Total	2.1057 nmole/L	6481 Avg. Size (nt)	22.90 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: RM-E8493-2108002914
Well location: B12
Created: Monday, November 1, 2021 2:55:05 PM



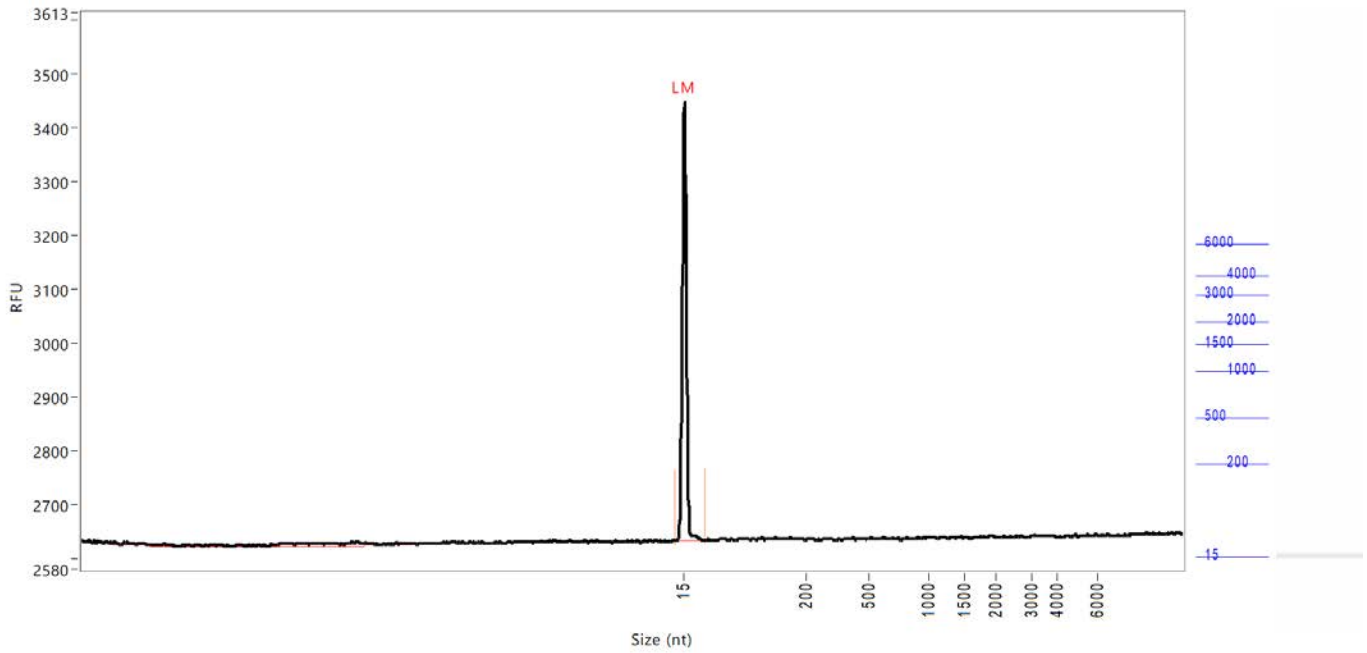
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	65	1181
2	491	1.3510	387	545	80
3	646	1.0327	545	698	59
4	795	1.2902	698	835	88
5	903	1.1694	835	928	103
6	956	0.7455	928	980	105
7	1220	3.4132	980	1268	215
8	1336	2.7636	1268	1432	246
9	1839	11.0029	1432	1992	450
10	2258	8.8157	1992	2500	531
11	2865	11.0638	2500	2986	843
12	3193	7.8633	2986	3366	904
13	4000	88.4288	3366	7181	11270

TIC:	138.9399	ng/uL	
TIM:	162.7656	nmole/L	
Total concentration:	139.8983	ng/uL	
28s/18s:	64.2		
RQN	10.0		

Smear Analysis	3700 nt to 4800 nt	79.9960 ng/ul	57.2 %Total	62.3833 nmole/L	4001 Avg. Size (nt)	3.83 %CV
	4800 nt to 13000 nt	2.9128 ng/ul	2.1 %Total	1.2827 nmole/L	7085 Avg. Size (nt)	26.06 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: Blank
Well location: C1
Created: Monday, November 1, 2021 2:55:05 PM



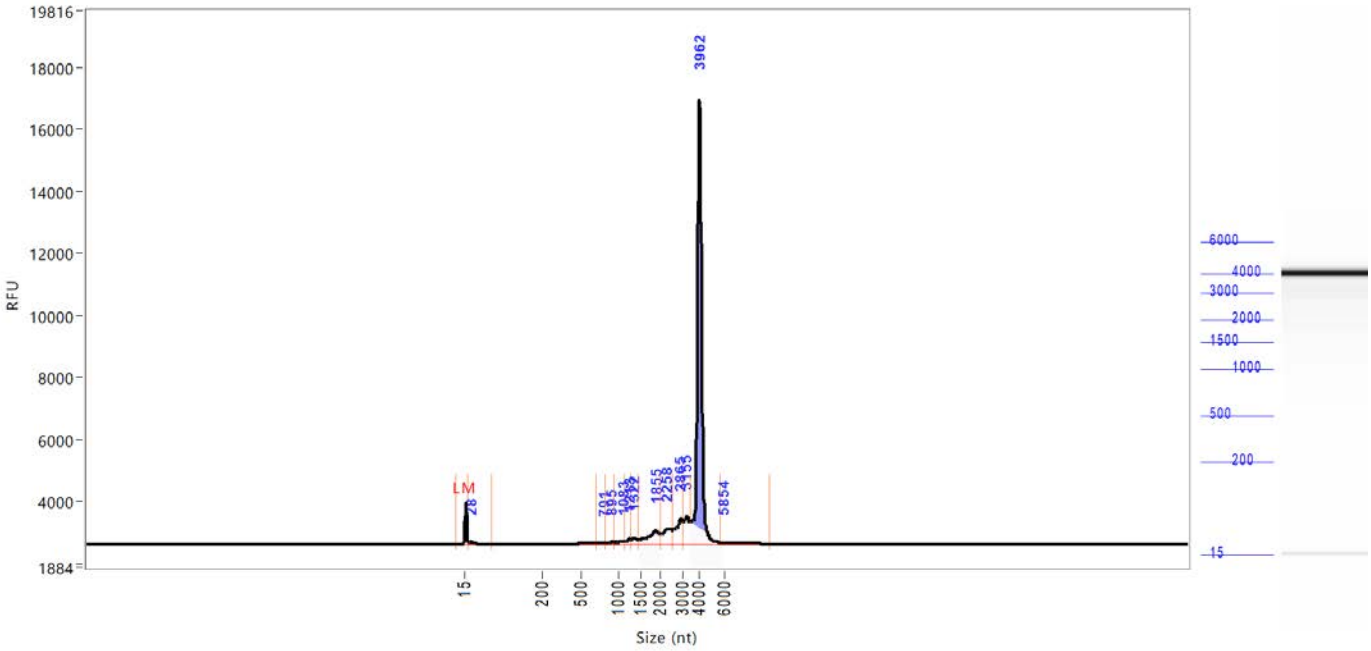
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	2	47	813

TIC:	0.0000	ng/uL	
TIM:	0.0000	nmole/L	
Total concentration:	0.0083	ng/uL	
28s/18s:	0.0		
RQN	1.0		

Smear Analysis	3700 nt to 4800 nt	0.0000 ng/ul	0.0 %Total	NaN nmole/L	NaN Avg. Size (nt)	NaN %CV
	4800 nt to 13000 nt	0.0065 ng/ul	79.0 %Total	0.0023 nmole/L	8752 Avg. Size (nt)	2.85 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: FL7649-2110003905
Well location: C11
Created: Monday, November 1, 2021 2:55:05 PM



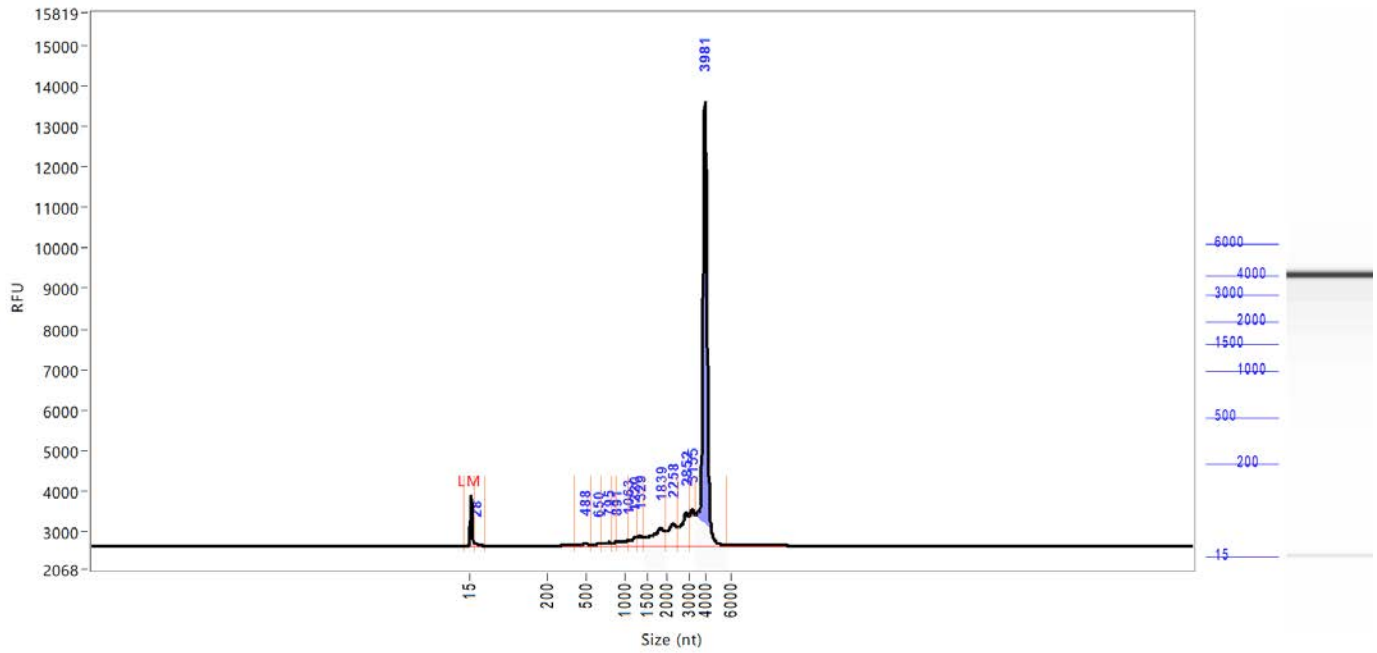
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	23	1354
2	28	1.4240	23	78	83
3	791	0.7468	694	815	54
4	895	0.9902	815	932	75
5	1083	1.6348	932	1124	101
6	1213	1.5971	1124	1261	184
7	1322	2.2899	1261	1425	210
8	1855	9.7901	1425	1976	447
9	2258	8.4153	1976	2487	502
10	2865	11.2511	2487	2986	832
11	3155	8.5890	2986	3385	894
12	3962	107.1441	3385	5659	14335
13	5854	2.7017	5659	9520	64

TIC:	156.5742	ng/uL
TIM:	275.2042	nmole/L
Total concentration:	157.7169	ng/uL
28s/18s:	77.2	
RQN	10.0	

Smear Analysis	3700 nt to 4800 nt	99.5541 ng/ul	63.1 %Total	77.8910 nmole/L	3987 Avg. Size (nt)	3.99 %CV
	4800 nt to 13000 nt	4.6061 ng/ul	2.9 %Total	2.1401 nmole/L	6715 Avg. Size (nt)	24.47 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: RM-E8493-2108002914
Well location: C12
Created: Monday, November 1, 2021 2:55:05 PM



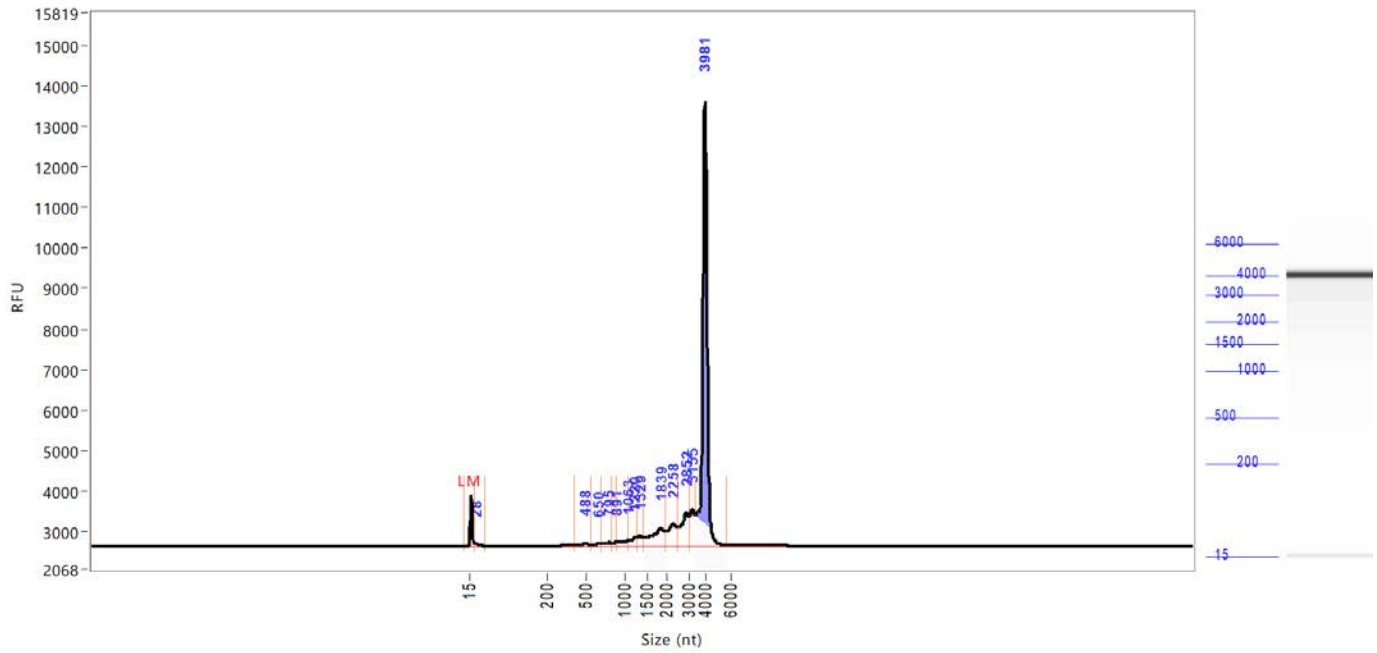
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	23	1262
2	28	1.2042	23	50	76
3	488	1.4161	403	541	85
4	650	1.0539	541	690	59
5	795	1.5351	690	835	90
6	891	0.8434	835	895	102
7	1063	2.3588	895	1069	134
8	1220	2.7632	1069	1261	220
9	1329	3.0951	1261	1425	250
10	1839	12.1615	1425	1984	454
11	2258	10.0303	1984	2500	539
12	2852	12.2076	2500	2986	843
13	3155	8.6802	2986	3347	910
14	3981	93.7415	3347	5732	10990

TIC:	151.0909	ng/uL
TIM:	293.4806	nmole/L
Total concentration:	153.5144	ng/uL
28s/18s:	66.3	
RQN	10.0	

Smear Analysis	3700 nt to 4800 nt	85.2878 ng/ul	55.6 %Total	66.6423 nmole/L	3993 Avg. Size (nt)	3.84 %CV

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

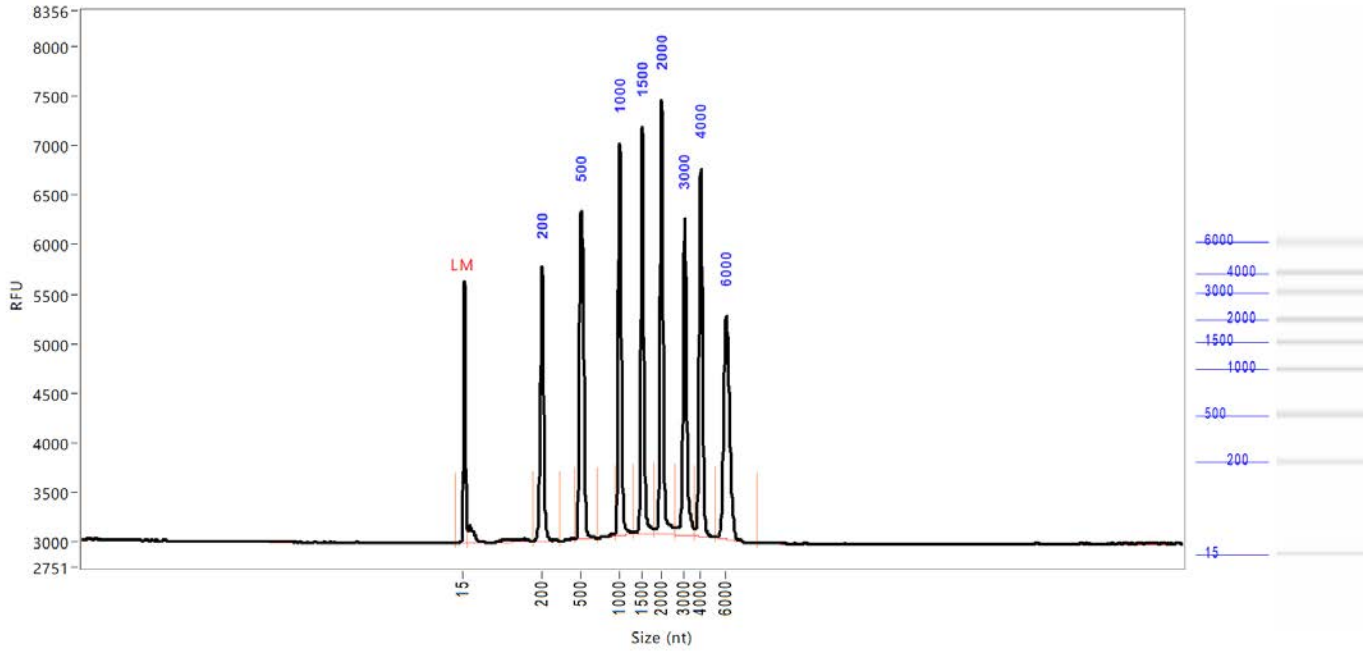
Sample: RM-E8493-2108002914
Well location: C12
Created: Monday, November 1, 2021 2:55:05 PM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU			
	4800 nt to 13000 nt	3.3277 ng/ul	2.2 %Total	1.4404 nmole/L	7208 Avg. Size (nt)	27.39 %CV		

```
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Manual baseline start (min): 18     Manual baseline end (min): 59
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000          Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: Ladder
Well location: D12
Created: Monday, November 1, 2021 2:55:05 PM



Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6303	0	23	2639
2	200	10.3806	179	342	2767
3	500	15.3432	455	718	3298
4	1000	11.7140	936	1309	3946
5	1500	11.5749	1309	1791	4099
6	2000	13.1244	1791	2595	4374
7	3000	10.7897	2595	3654	3192
8	4000	11.4257	3654	5147	3706
9	6000	11.5488	5147	8484	2252

TIC:	95.9013	ng/uL
TIM:	362.6375	nmole/L
Total concentration:	96.0000	ng/uL

```
Sample peak width (sec): 6    Sample min peak height: 200   Sample baseline V to V?: Y    Sample baseline V to V points: 3
Sample filter: Binomial       Number of points for filter: 9  Sample start region (min): 0  Sample end region (min): 60
Marker peak width (sec): 6    Marker min peak height: 100   Marker baseline V to V?: Y    Marker baseline V to V points: 3
Lower marker selection: First peak > 100 RFU                Upper marker selection: Last peak > 100 RFU
Ladder size (nt)15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000
Quantification using: Ladder          Final concentration (ng/uL): 8.0000         Dilution factor: 12.0
Minimum RFU for data processing: 2
```

Sample: Ladder
Well location: D12
Created: Monday, November 1, 2021 2:55:05 PM
Fit type: Point to point