

Instrument controller software run summary:

Filename and data path: C:\Agilent Technologies\Data\2021 07 20\11-14-24\2021 07 20 11H 14M.raw

Created: Tuesday, July 20, 2021 11:40:06 AM

Number of capillaries: 9

Array serial number: 022621-27SFS

Effect length: 33 cm

Array usage count: 12

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.

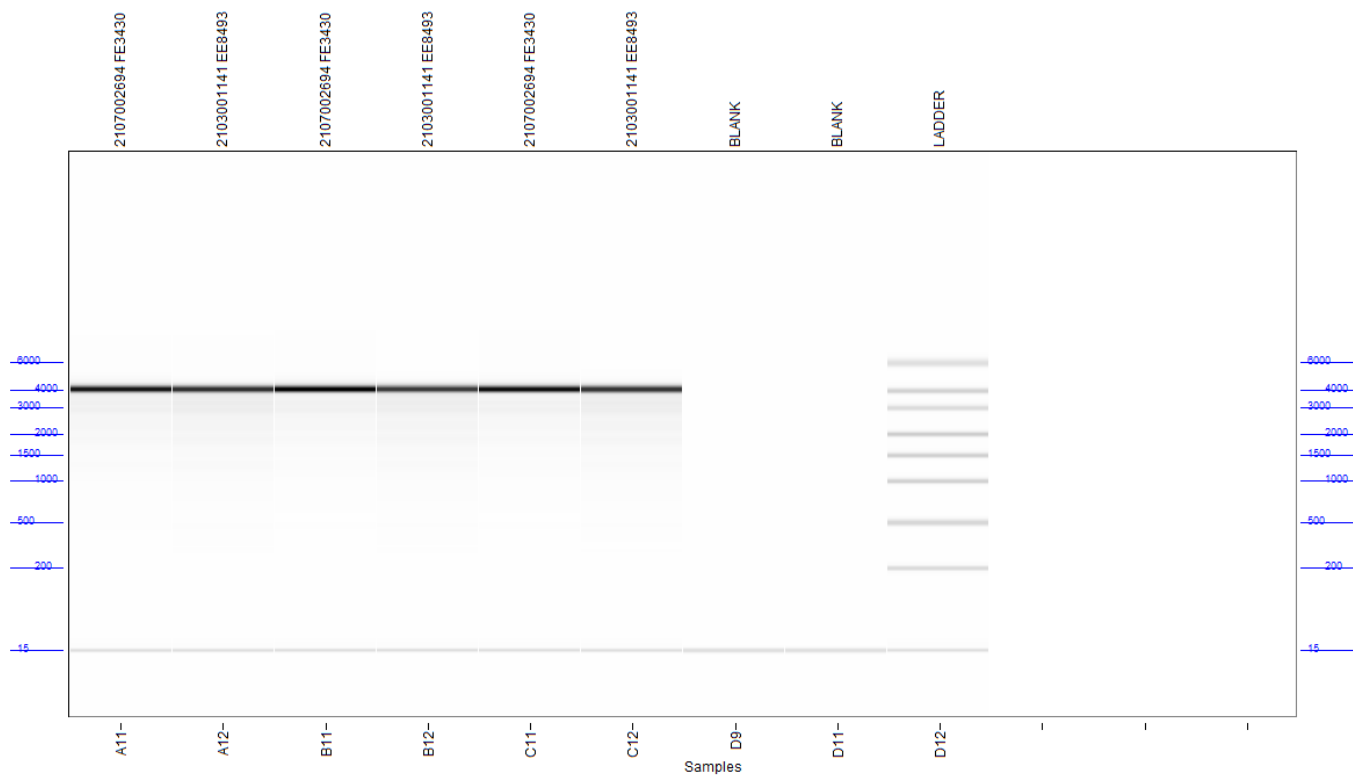
Separation: 8.0 kV, 60.0 min.

Tray name: Tray-1

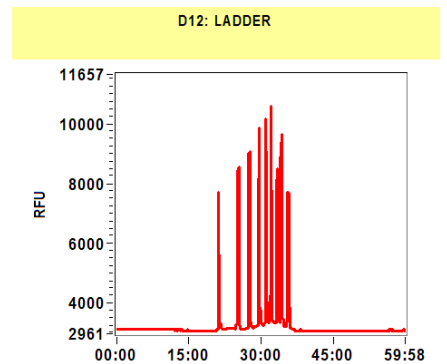
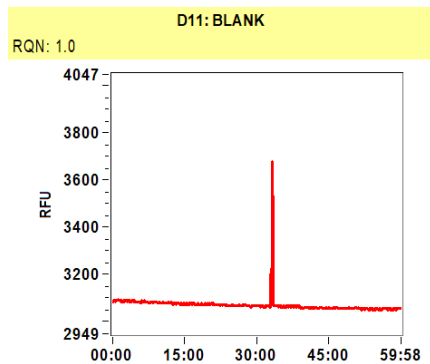
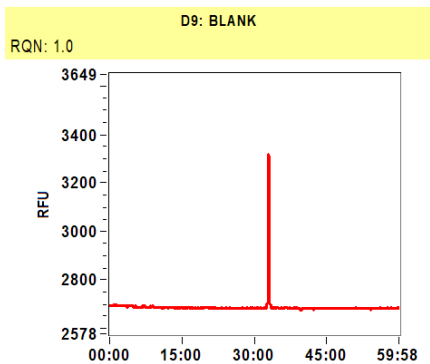
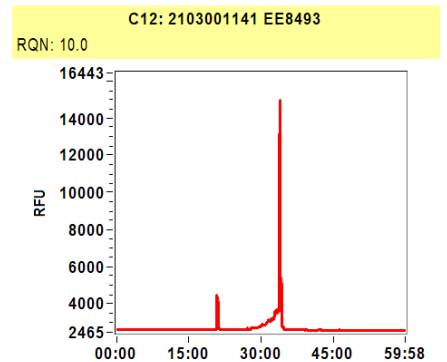
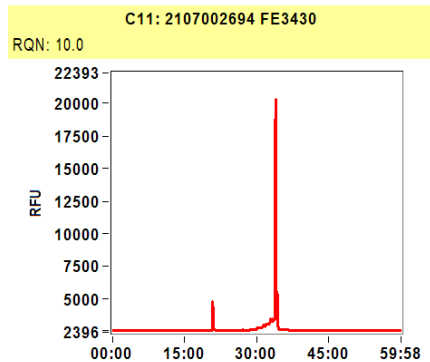
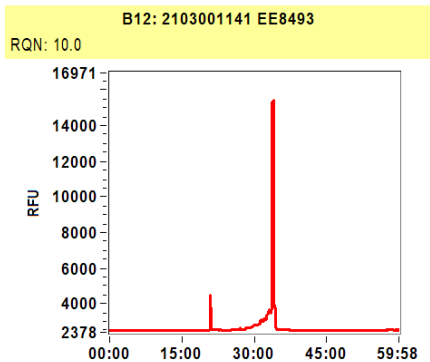
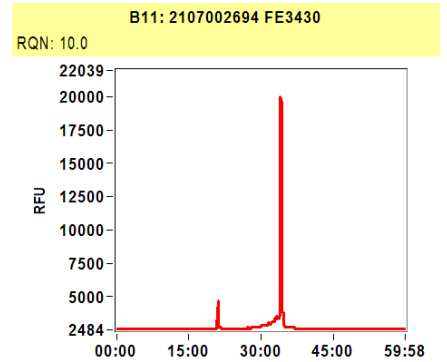
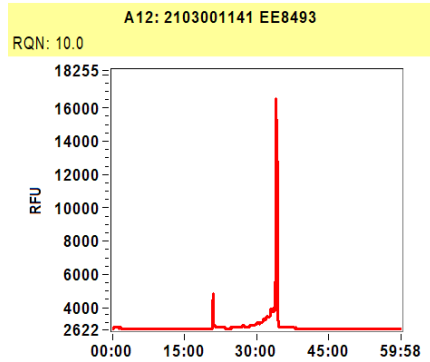
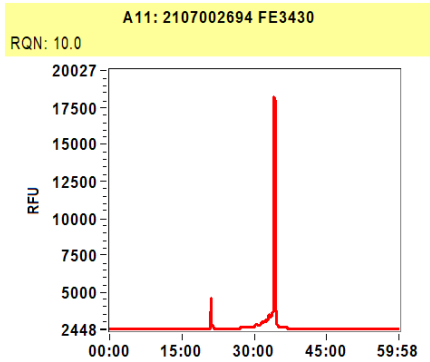
Analysis mode: RNA (Eukaryotic)

Notes

Gel Image



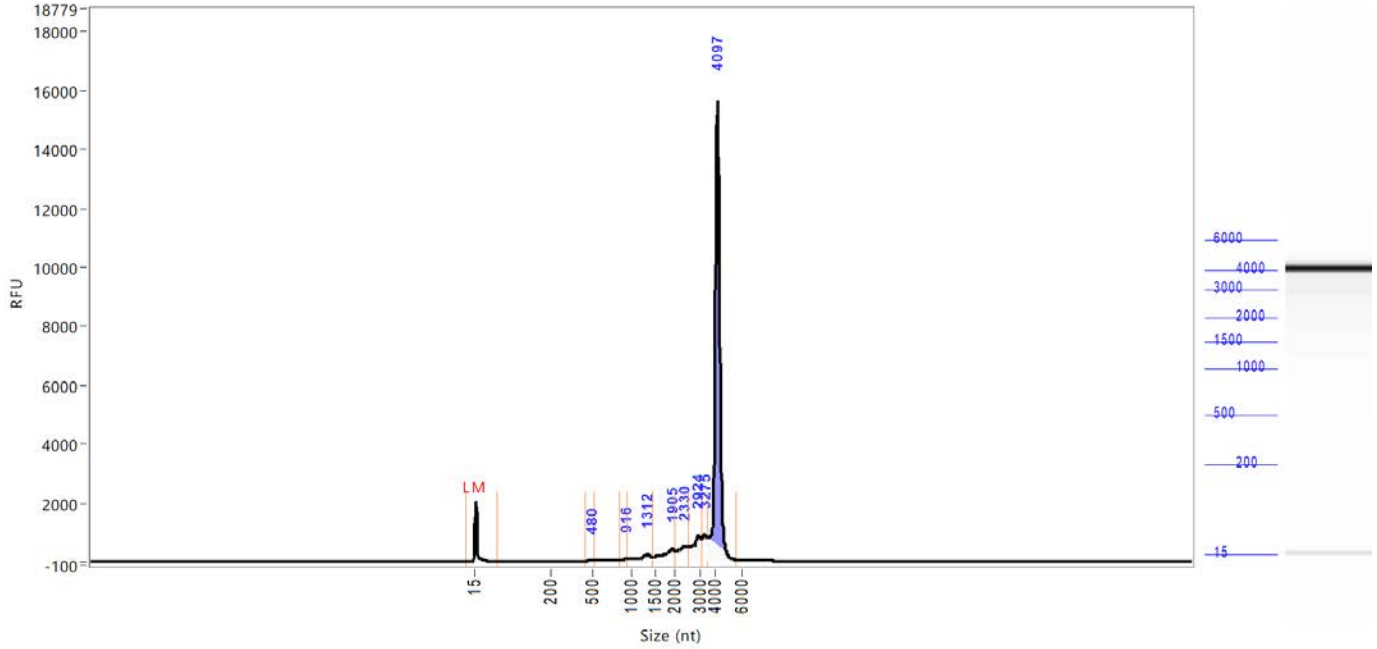
Filename and data path: C:\Agilent Technologies\Data\2021 07 20\11-14-24\2021 07 20 11H 14M.raw



Sample: 2107002694 FE3430

Well location: A11

Created: Tuesday, July 20, 2021 11:40:06 AM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	68	2045
2	480	0.4450	443	513	59
3	916	0.7449	832	944	87
4	1312	3.9296	944	1422	248
5	1905	6.9290	1422	2001	444
6	2330	6.5323	2001	2557	522
7	2924	8.4954	2557	3079	906
8	3275	5.6550	3079	3491	924
9	4097	81.2872	3491	5639	15646

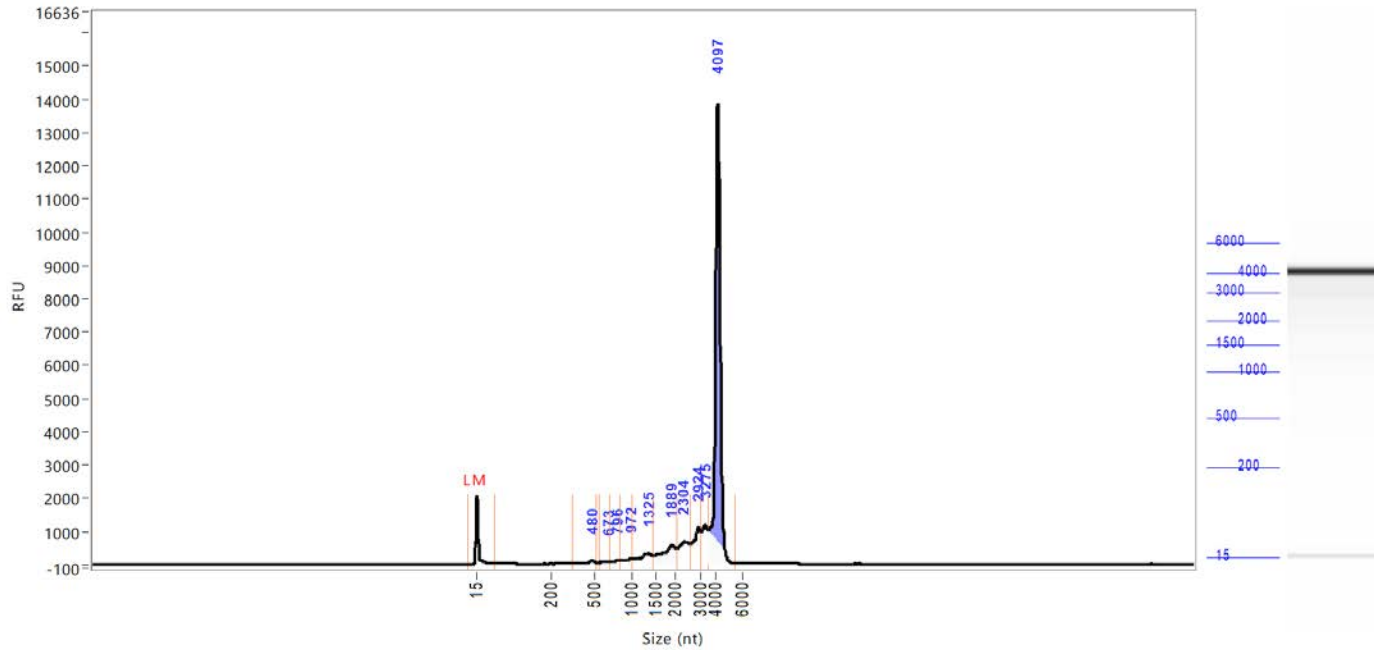
TIC: 114.0184 ng/uL
 TIM: 113.2591 nmole/L
 Total concentration: 117.4163 ng/uL

28s/18s: 101.2
 RQN 10.0

Smear Analysis	3700 nt to 4800 nt	77.2532 ng/uL	65.8 %Total	58.6045 nmole/L	4112 Avg. Size (nt)	4.27 %CV
	4800 nt to 13000 nt	3.2948 ng/uL	2.8 %Total	1.5735 nmole/L	6533 Avg. Size (nt)	24.80 %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: 2103001141 EE8493
Well location: A12
Created: Tuesday, July 20, 2021 11:40:06 AM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	58	2050
2	480	1.6500	341	533	126
3	673	0.7915	573	697	78
4	796	1.1851	697	832	116
5	972	1.9677	832	996	158
6	1325	5.5605	996	1435	328
7	1889	10.2096	1435	2026	588
8	2304	8.5353	2026	2570	687
9	2924	9.7719	2570	3040	1120
10	3275	7.5513	3040	3471	1186
11	4097	75.4642	3471	5518	13860

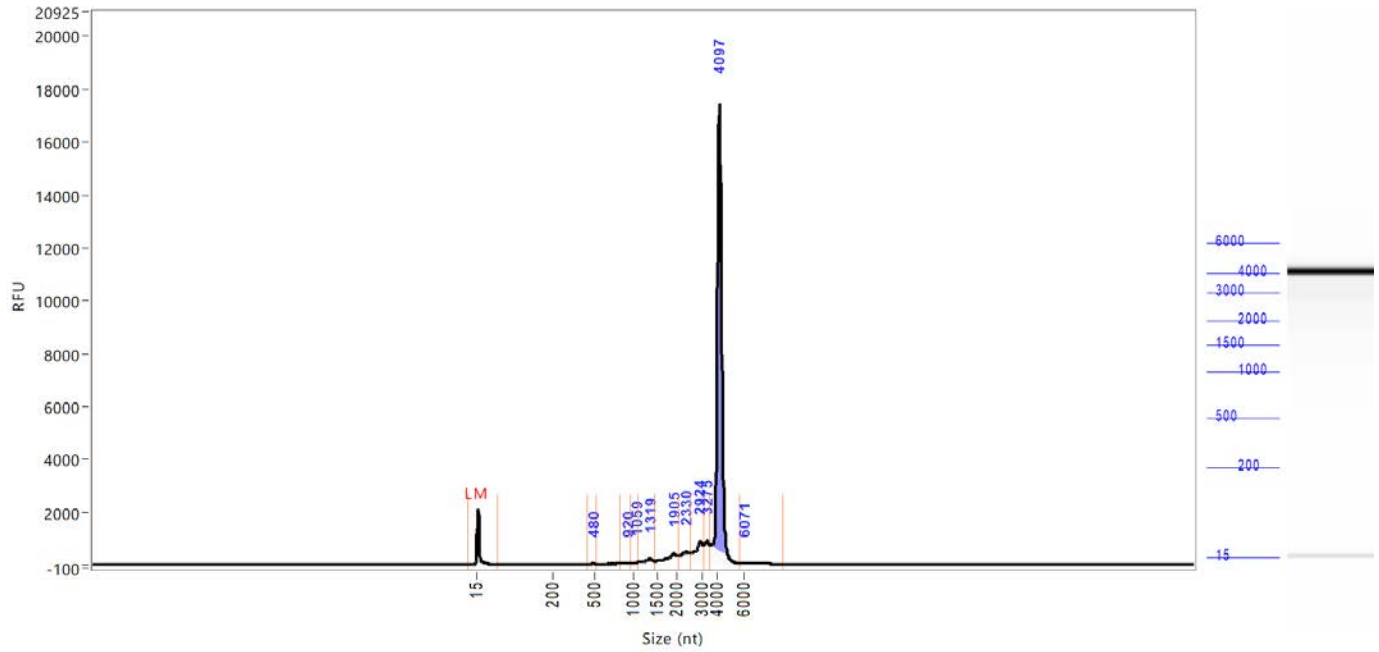
TIC: 122.6870 ng/uL
 TIM: 146.1882 nmole/L
 Total concentration: 125.2247 ng/uL

28s/18s: 71.5
 RQN 10.0

Smear Analysis 3700 nt to 4800 nt 71.0246 ng/ul 56.7 %Total 54.0354 nmole/L 4101 Avg. Size (nt) 4.21 %CV
 4800 nt to 13000 nt 2.3203 ng/ul 1.9 %Total 1.0197 nmole/L 7099 Avg. Size (nt) 25.44 %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: 2107002694 FE3430
Well location: B11
Created: Tuesday, July 20, 2021 11:40:06 AM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	63	2121
2	480	0.3706	441	517	55
3	920	0.6510	828	948	76
4	1059	0.6450	948	1066	98
5	1319	2.8676	1066	1429	235
6	1905	6.5558	1429	2026	437
7	2330	5.7349	2026	2557	498
8	2924	8.0547	2557	3079	919
9	3275	5.4499	3079	3510	900
10	4097	85.2881	3510	5711	17433
11	6071	1.9951	5711	9097	78

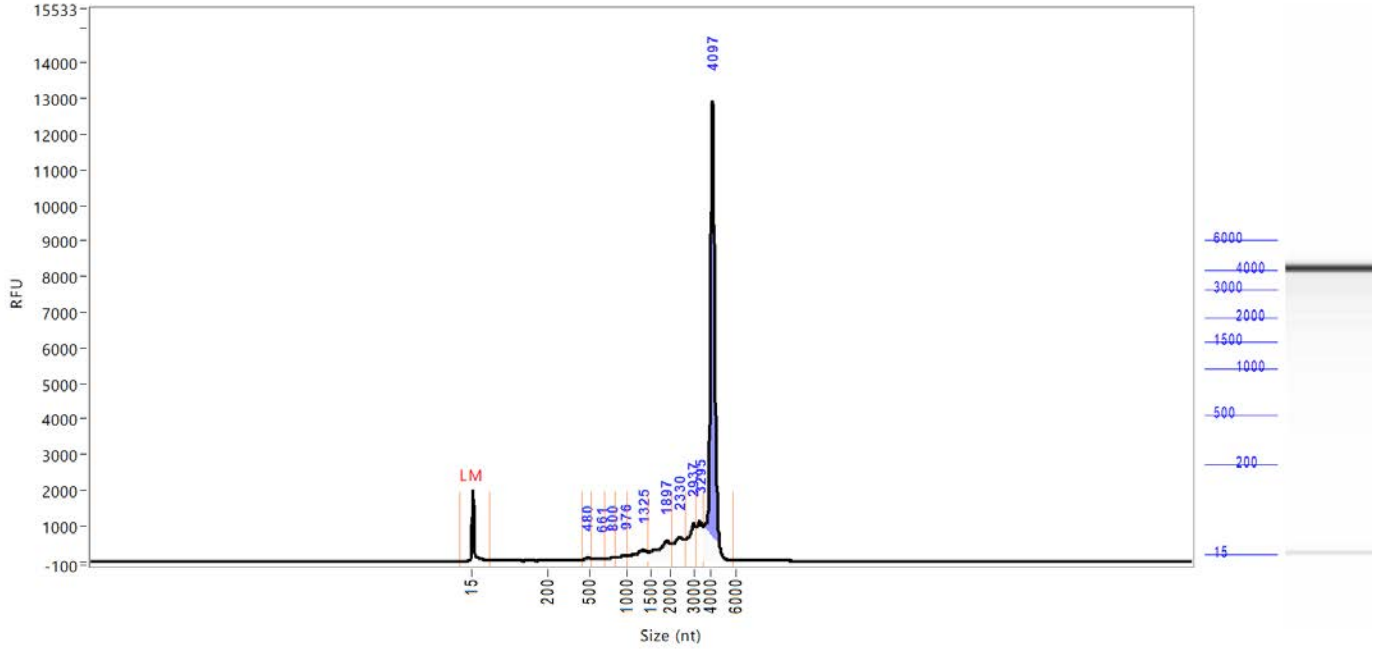
TIC: 117.6128 ng/uL
 TIM: 112.6344 nmole/L
 Total concentration: 118.6681 ng/uL

28s/18s: 96.8
 RQN 10.0

Smear Analysis 3700 nt to 4800 nt 81.7445 ng/ul 68.9 %Total 62.0269 nmole/L 4111 Avg. Size (nt) 4.16 %CV
 4800 nt to 13000 nt 3.6584 ng/ul 3.1 %Total 1.7381 nmole/L 6567 Avg. Size (nt) 23.19 %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: 2103001141 EE8493
Well location: B12
Created: Tuesday, July 20, 2021 11:40:06 AM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	60	2020
2	480	0.9098	443	529	119
3	661	0.9886	529	697	80
4	800	1.2390	697	844	115
5	976	1.8346	844	1000	152
6	1325	5.2235	1000	1429	316
7	1897	9.8992	1429	2026	564
8	2330	8.2289	2026	2570	668
9	2937	9.5862	2570	3060	1062
10	3295	7.2502	3060	3491	1131
11	4097	70.2941	3491	5759	12940

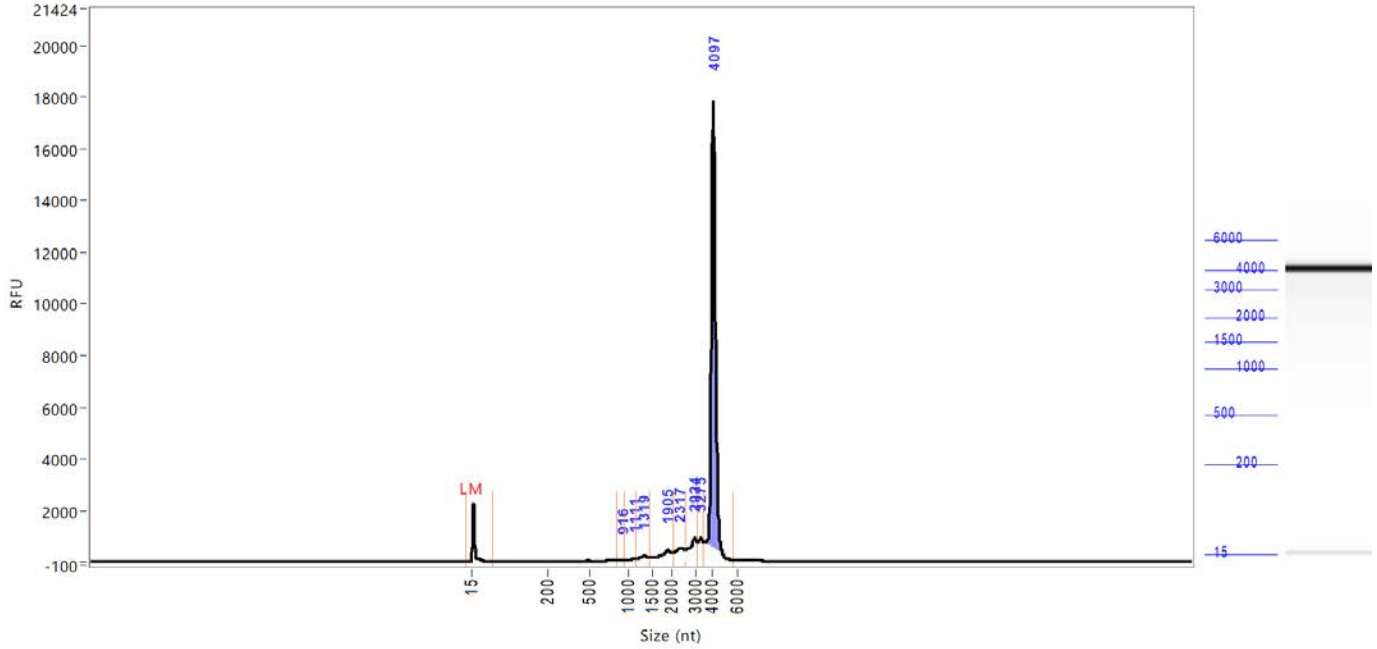
TIC: 115.4540 ng/uL
 TIM: 134.8445 nmole/L
 Total concentration: 116.9471 ng/uL

28s/18s: 71.0
 RQN 10.0

Smear Analysis 3700 nt to 4800 nt 66.2012 ng/ul 56.6 %Total 50.2151 nmole/L 4113 Avg. Size (nt) 4.36 %CV
 4800 nt to 13000 nt 1.5325 ng/ul 1.3 %Total 0.7593 nmole/L 6297 Avg. Size (nt) 22.40 %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: 2107002694 FE3430
Well location: C11
Created: Tuesday, July 20, 2021 11:40:06 AM



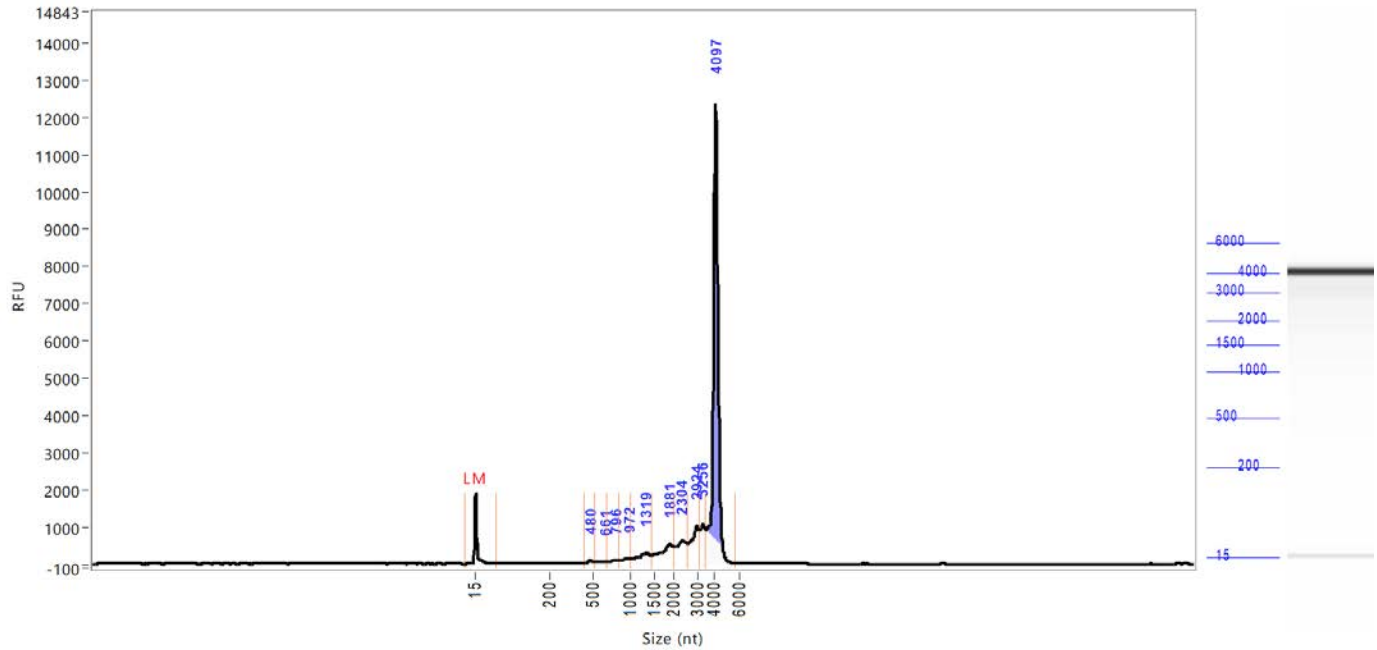
Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	62	2281
2	916	0.5985	844	948	83
3	1111	1.0788	948	1157	113
4	1319	2.3901	1157	1429	254
5	1905	6.6073	1429	2039	468
6	2317	5.5180	2039	2557	522
7	2924	7.6633	2557	3079	957
8	3275	5.0721	3079	3491	938
9	4097	81.3328	3491	5711	17849

TIC: 110.2609 ng/uL
 TIM: 105.0908 nmole/L
 Total concentration: 113.6350 ng/uL
 28s/18s: 95.7
 RQN 10.0

Smear Analysis	3700 nt to 4800 nt	77.7222 ng/ul	68.4 %Total	59.0353 nmole/L	4107 Avg. Size (nt)	4.15 %CV
	4800 nt to 13000 nt	3.4396 ng/ul	3.0 %Total	1.6362 nmole/L	6558 Avg. Size (nt)	23.76 %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: 2103001141 EE8493
Well location: C12
Created: Tuesday, July 20, 2021 11:40:06 AM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	66	1897
2	480	0.8834	441	525	113
3	661	0.9136	525	689	70
4	796	1.1714	689	828	106
5	972	1.8919	828	996	140
6	1319	5.2565	996	1422	296
7	1881	9.5150	1422	2000	531
8	2304	8.3134	2000	2557	624
9	2924	9.8755	2557	3040	1015
10	3256	7.3203	3040	3471	1080
11	4097	71.5565	3471	5663	12365

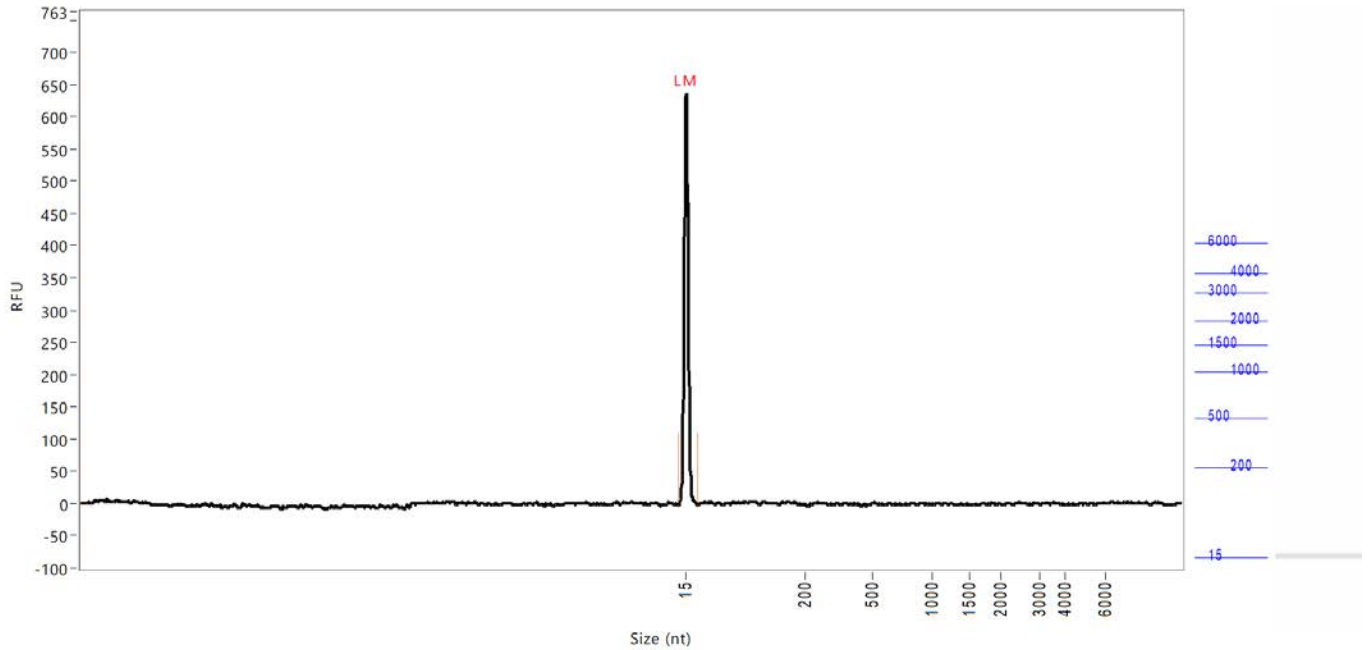
TIC: 116.6975 ng/uL
 TIM: 135.9578 nmole/L
 Total concentration: 118.0075 ng/uL

28s/18s: 74.4
 RQN 10.0

Smear Analysis	3700 nt to 4800 nt	67.1481 ng/ul	56.9 %Total	51.1408 nmole/L	4096 Avg. Size (nt)	4.26 %CV
	4800 nt to 13000 nt	1.6044 ng/ul	1.4 %Total	0.7894 nmole/L	6341 Avg. Size (nt)	21.64 %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: D9
Created: Tuesday, July 20, 2021 11:40:06 AM

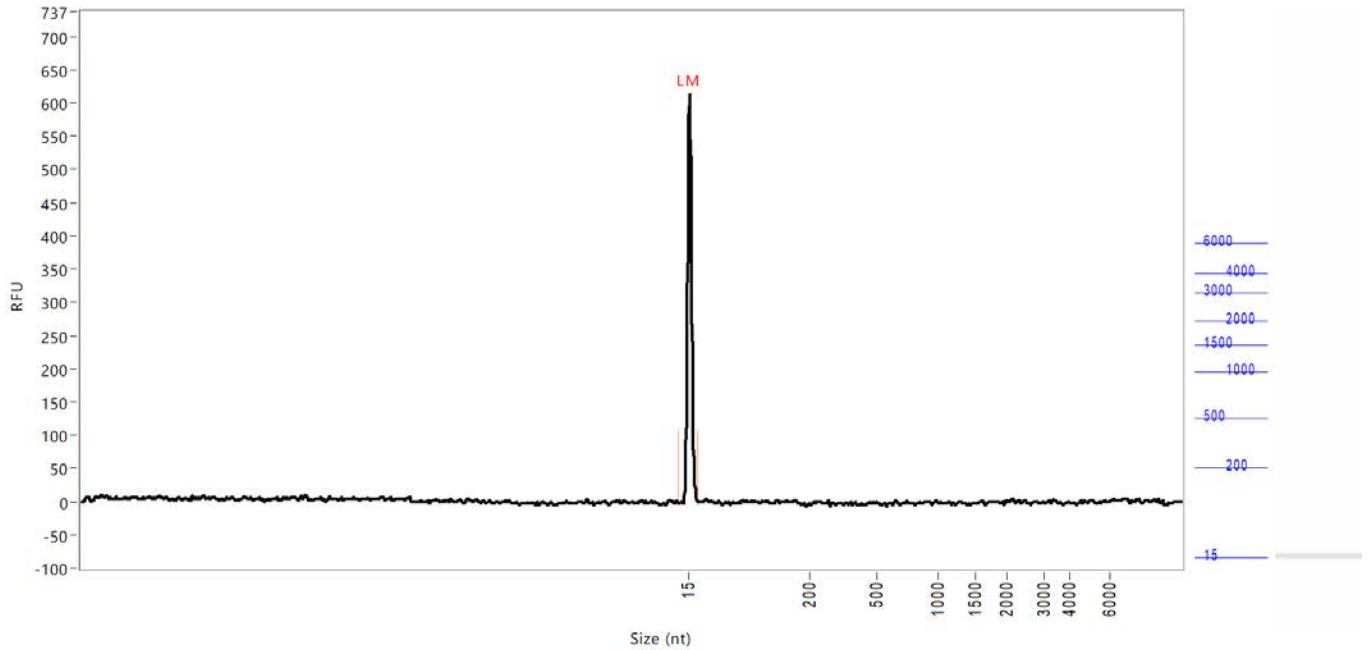


Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.7285	3	35	632
	TIC:	0.0000	ng/uL		
	TIM:	0.0000	nmole/L		
	Total concentration:	0.0245	ng/uL		
	28s/18s:	0.0			
	RQN	1.0			

Smear Analysis	Size Range	Concentration	%Total	Concentration	Avg. Size	%CV
	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	0.0040 ng/uL	16.1 %Total	0.0017 nmole/L	7361 Avg. Size (nt)	11.27 %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: D11
Created: Tuesday, July 20, 2021 11:40:06 AM

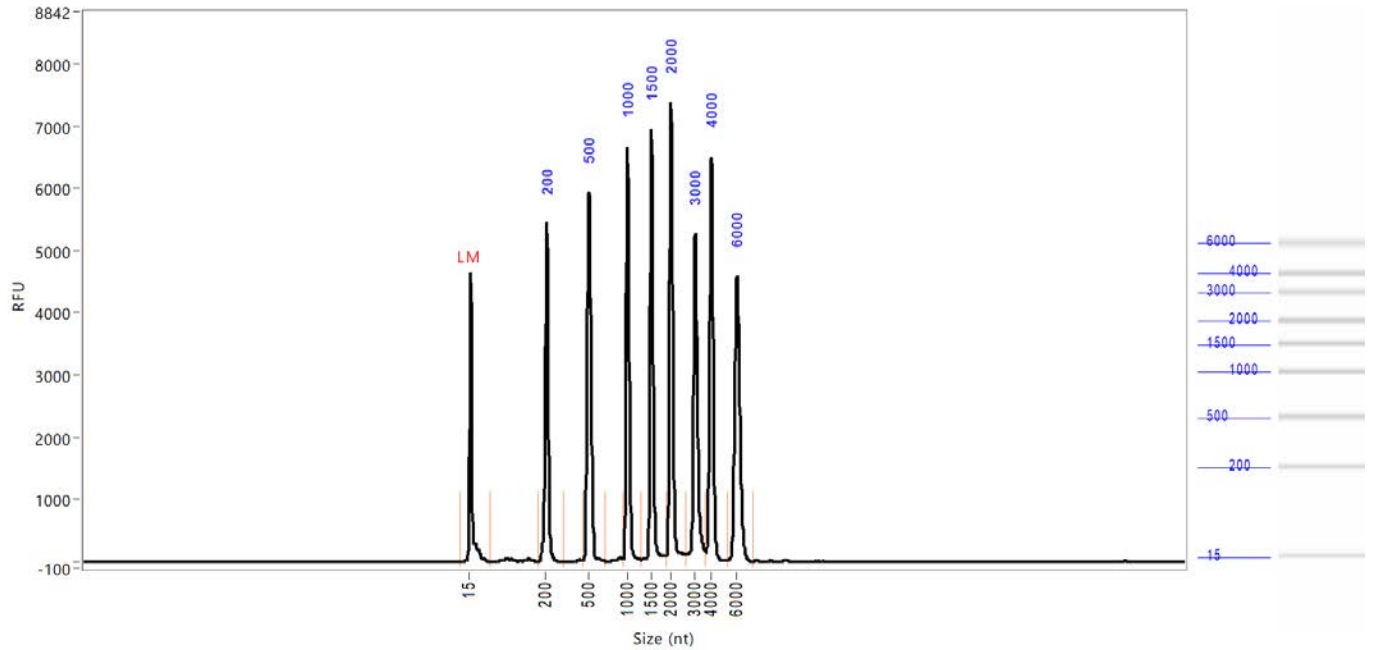


Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.7285	0	29	611
	TIC:	0.0000	ng/uL		
	TIM:	0.0000	nmole/L		
	Total concentration:	0.0412	ng/uL		
	28s/18s:	0.0			
	RQN	1.0			

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	0.0342 ng/ul	83.0 %Total	0.0151 nmole/L	7043 Avg. Size (nt)	8.83 %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: Tuesday, July 20, 2021 11:40:06 AM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.7285	0	64	4635
2	200	10.9890	180	325	5439
3	500	14.7016	454	717	5929
4	1000	12.0321	940	1273	6657
5	1500	11.9891	1273	1873	6941
6	2000	12.8603	1873	2633	7366
7	3000	10.7533	2633	3667	5267
8	4000	11.1550	3667	5253	6490
9	6000	11.2858	5253	7239	4596

TIC: 95.7662 ng/uL
 TIM: 368.6311 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: Tuesday, July 20, 2021 11:40:06 AM
Fit type: Point to point

Calibration curve

