

# Agilent GPC/SEC Software Sample GPC Analysis Report



**Agilent Technologies**

## va smanh c

### Workspace Details

Workspace name Poly lactide  
Location C:\ProgramData\Agilent Technologies\GPC\Workspaces\Poly lactide\  
Comments  
Created by Administrator at 13:44:31 on 15 June 2015

### Sample Properties

Sample name va smanh c  
File name ICF\_08\_03\_2018-0009.sample  
Collected by GPC at 18:07:07 on 08 March 2018  
Instrument name Instrument 1

### Column Calibration Details

Name GPC\_Calib  
Created by Administrator at 15:53:55 on 18 June 2015  
Last modified by GPC at 09:48:47 on 24 August 2016  
Comments GPC Column Calibration created Thursday, June 18, 2015 by Administrator  
GPC Column Calibration amended Thursday, June 18, 2015 by Administrator  
GPC Column Calibration amended Thursday, June 18, 2015 by Administrator

Calibration Type	Narrow Standard	Curve Fit Used	3
Calibration Curve	$y = -0.0005918x^3 + 0.0308x^2 - 0.8981x + 12.44$		
High Limit MW RT (mins)	10.68333	Low Limit MW RT (mins)	19.65000
High Limit MW (g/mol)	465600	Low Limit MW (g/mol)	162
Flow Rate Marker Name		Flow Marker RT (mins)	0.00000
K (Input) ((10e-5) dL/g)	14.100		
Alpha (Input)	0.700		
Residual Sum Of Squares	0.0060349	Corrected Sum Of Squares	13.8054
Coeff. Of Determination	0.999563	Standard Y Error Estimate	0.0274657
Linear Correlation Coeff	-0.999414		

### Column Calibration Data Points

Point	Peak Max RT (mins)	MW	Log MW	Point in Use?	Percent Error
1	10.68333	465600	5.67	Yes	7.18
2	11.33333	217900	5.34	Yes	-3.41
3	11.93333	113300	5.05	Yes	-11.05
4	12.98333	47190	4.67	Yes	0.18
5	13.51667	29150	4.46	Yes	0.34
6	14.46667	13270	4.12	Yes	5.45
7	15.23333	6940	3.84	Yes	6.73
8	16.20000	2780	3.44	Yes	-2.51
9	17.06667	1390	3.14	Yes	0.98
10	17.56667	860	2.93	Yes	-5.28
11	18.58333	370	2.57	Yes	-4.18
12	19.65000	162	2.21	Yes	3.96

Analyst: .....

Date: .....

Checked By: .....

Date: .....

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## Processing Parameters

Method Last modified by Administrator at 13:44:30 on 15 June 2015  
 Using Flow Rate Correction No  
 Mark-Houwink K ((10e-5) dL/g) 14.100  
 Mark-Houwink Alpha 0.700  
 Concentration Detector Used in Analysis RI  
 Injection volume (µL) 100.00  
 Flow rate (mL/min) 1.00

## MW Ranges Method

Calculate MW Ranges No

## Percentage Fractions Method

Calculate Percentage Fractions No

## Results

Analysed by GPC at 09:53:16 on 12 March 2018  
 Comments

## Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	4288	3426	4249	5113	6021	4984	1.24
Peak 2	1101	713	759	804	846	798	1.065
Peak 3	364	345	354	362	371	361	1.026

## Peak Information

	Start (mins)	End (mins)
Baseline region 1	1.86667	10.31667
Peak 1	14.41667	17.33333
Peak 2	17.33333	18.38333
Peak 3	18.38333	19.06667

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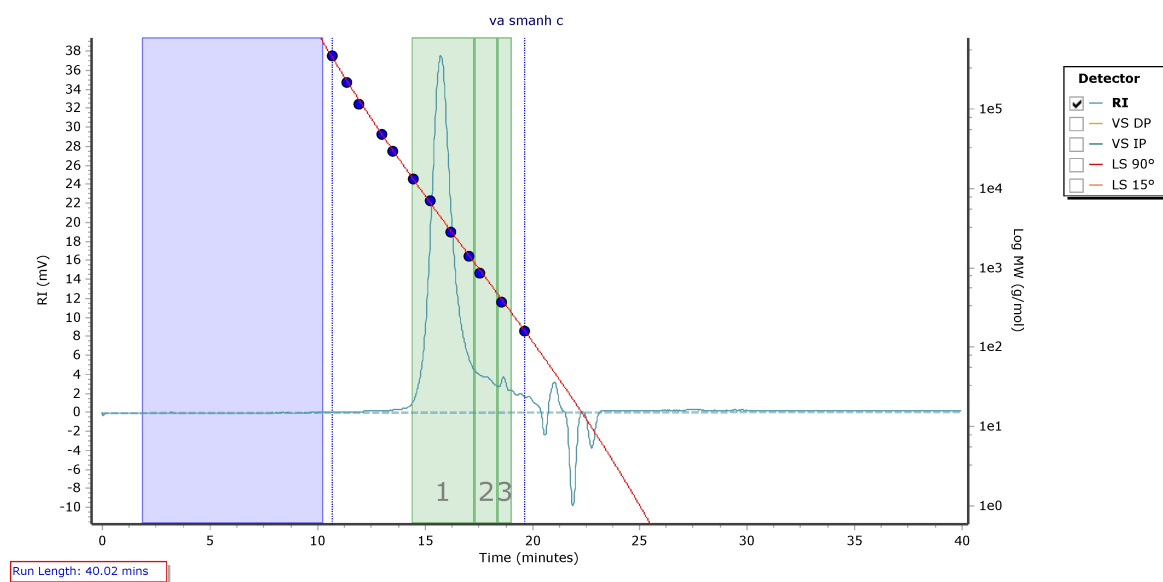


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## Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.73333	2730.376	37.510
Peak 1	VS DP	15.65000	1546.926	19.764
Peak 1	VS IP	15.51667	44.021	1.100
Peak 1	LS 90°	15.65000	607.504	8.663
Peak 1	LS 15°	15.71667	421.895	5.026
Peak 2	RI	17.33333	224.981	4.341
Peak 2	VS DP	17.38333	152.859	3.040
Peak 2	VS IP	17.98333	6.642	-0.529
Peak 2	LS 90°	17.36667	30.488	0.668
Peak 2	LS 15°	17.45000	57.360	0.960
Peak 3	RI	18.65000	116.938	3.734
Peak 3	VS DP	18.73333	63.366	1.726
Peak 3	VS IP	18.51667	3.901	0.348
Peak 3	LS 90°	18.38333	12.749	0.367
Peak 3	LS 15°	18.70000	40.345	1.096

## Chromatogram Plot



Analyst: .....

Date: .....

Checked By: .....

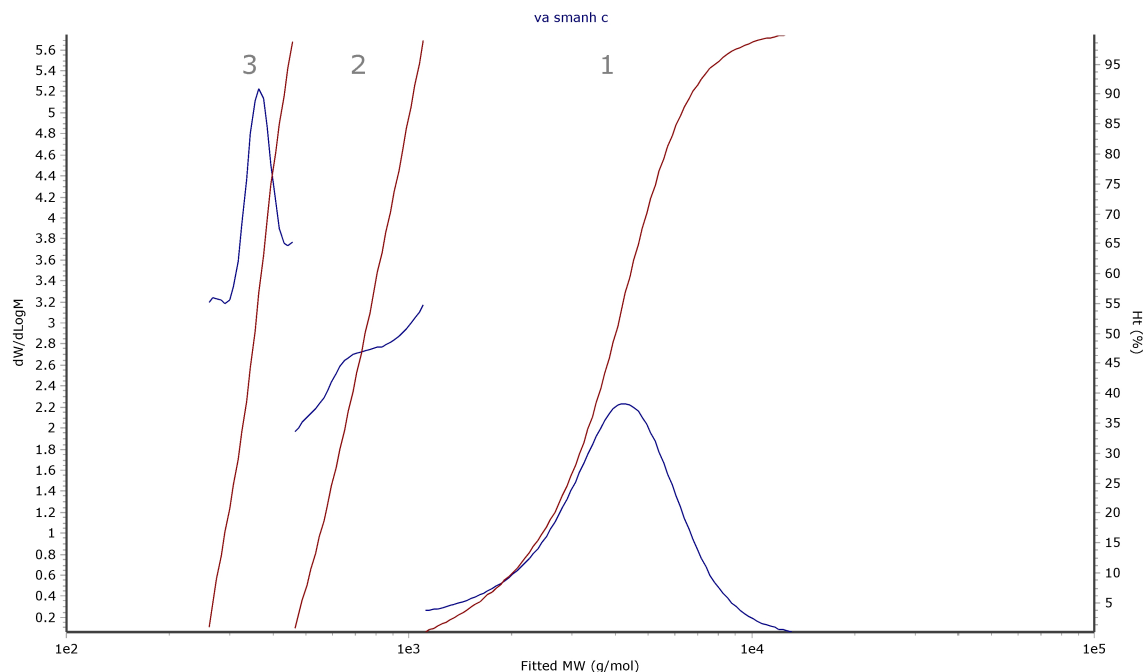
Date: .....

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## Distribution Plot



Analyst: .....

Date: .....

Checked By: .....

Date: .....