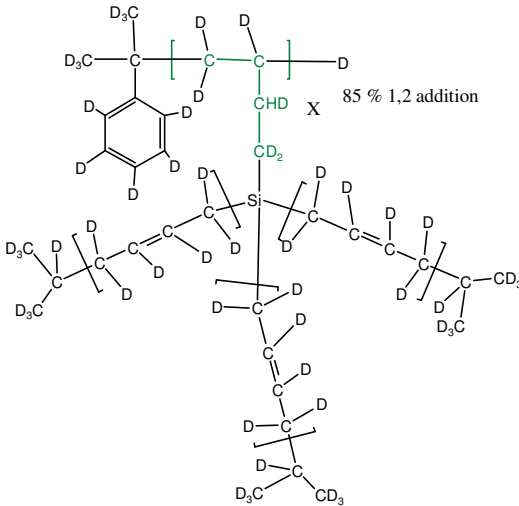


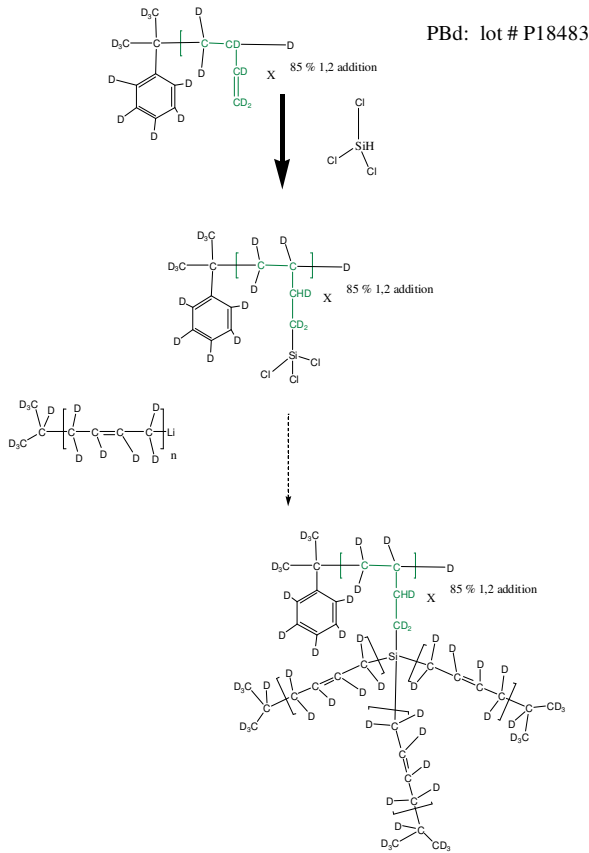
**Sample Name: Completely Deuterated
10-Arm 1,4-Polybutadiene**

Sample # P18554B-10dPBd



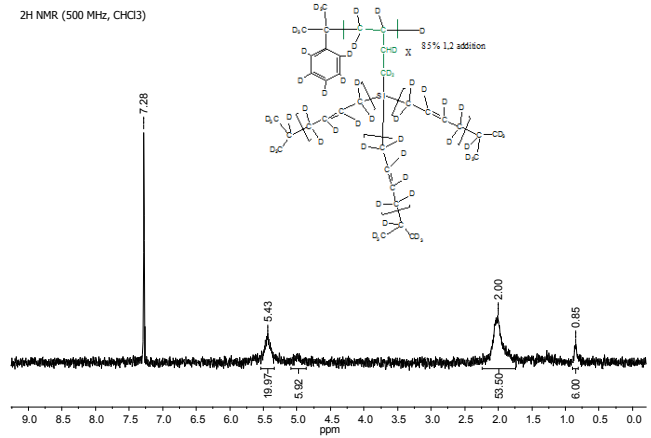
Total M_n (g/mol):	8,200
M_w/M_n :	1.7
M_n of polybutadiene arm (g/mol):	800

Synthesis:



Deuterium NMR:

²H NMR (500 MHz, CHCl₃)

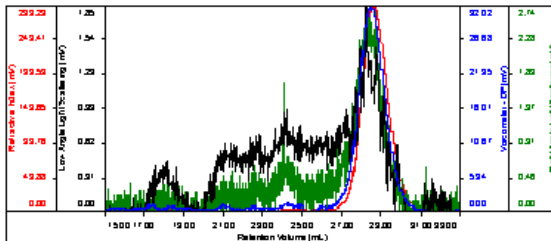


SEC:

Molecular weights of polybutadiene was determined by SEC using RI detector:

Sample ID: P18554-dBd Branch

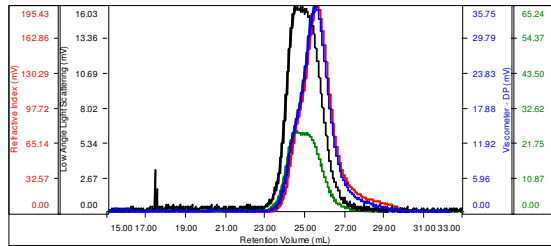
Concentration (mg/mL)	8.1187
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	M_n	M_w	M_p	M_w/M_n	IV
P18554-dBd-Test_01.vdt	755	829	677	1.099	0.1124

Sample ID: P18554B-dBd Star

Concentration (mg/mL)	6.5300
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	M_n	M_w	M_p	M_w/M_n	IV
P18554B_01.vdt	8,235	13,705	9,871	1.664	0.1903