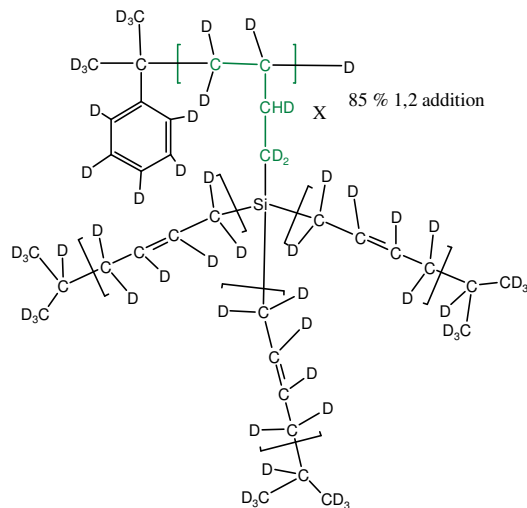


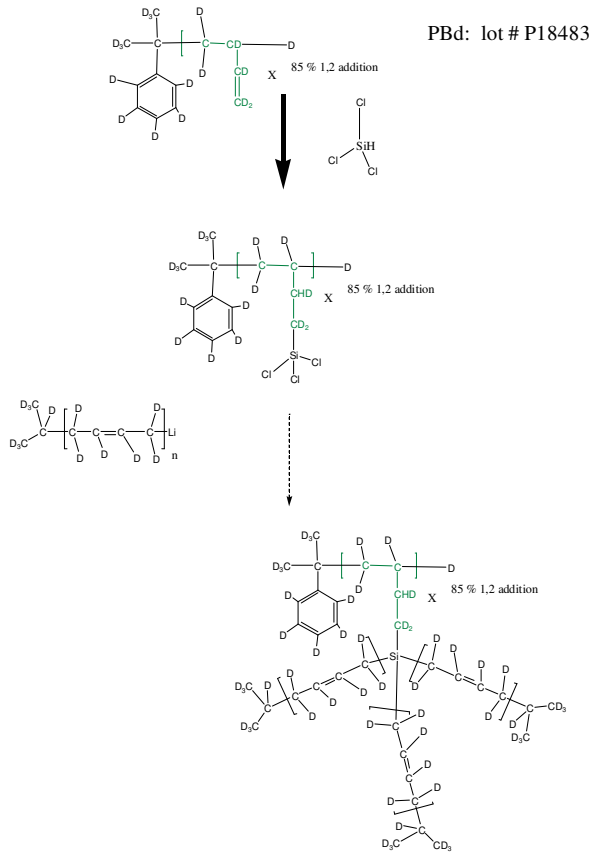
Sample Name: **Completely Deuterated
10-Arm 1,4-Polybutadiene**

Sample # **P18554D-10dPBd**



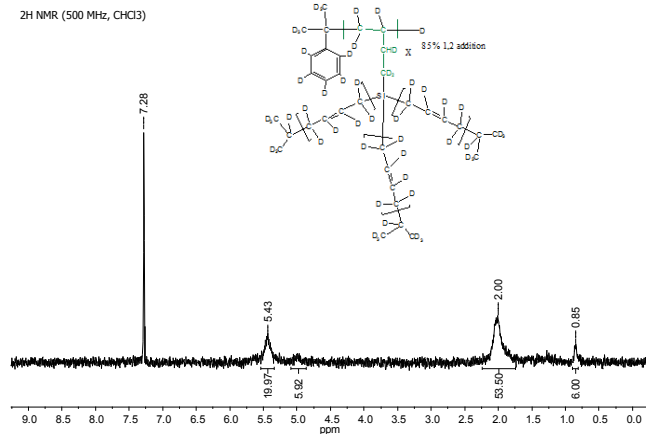
Total M_n (g/mol):	8,500
M_w/M_n :	1.8
M_n of polybutadiene arm (g/mol):	800

Synthesis:



Deuterium NMR:

²H NMR (500 MHz, CHCl₃)

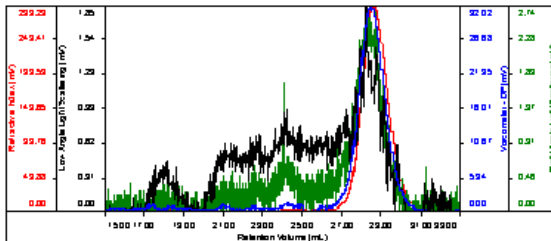


SEC:

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

Sample ID: P18554-dBd Branch

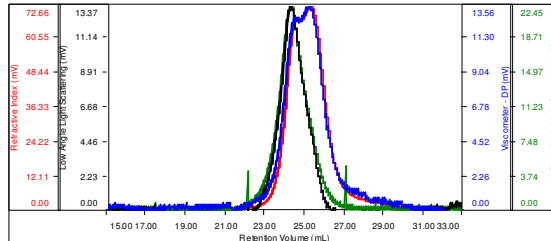
Concentration (mg/mL)	8.1187
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	M_n	M_w	M_p	M_w/M_n	IV
P18554-dBd-Branch-01.vdt	755	829	677	1.099	0.1124

Sample ID: P18554D-dBd Star

Concentration (mg/mL)	2.0720
Sample dn/dc (mL/g)	0.1850
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
P18554D-01.vdt	8,496	15,658	9,187	1.843	0.3025