SUPPORTING INFORMATION for

SYNTHESIS OF 15,28-DIDEOXY-15,28-DIDEHYDROTHYRSENOL

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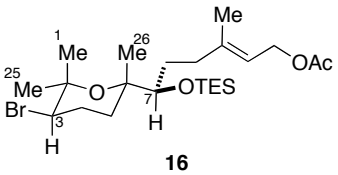
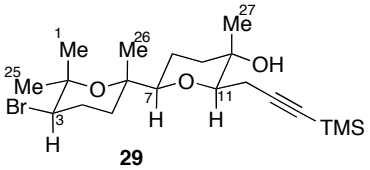
Comparison of ^{1}H NMR data for key synthetic intermediates:

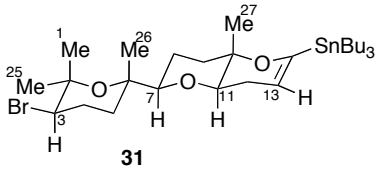
The stereochemistry of the ABC ring sector was checked by comparison of chemical shifts and coupling constants for diagnostic resonances with the published data for thyrsenols A (**5**) and B (**6**),* for the synthetic intermediates **16** (A ring), **29** (AB rings), **31** (ABC rings), and final synthetic compound **7** (ABCD rings). The only substantial discrepancy (compound **7**, H18) was attributed to differences in hydrogen bonding environment of the C18 alcohol with the diol of **5** and **6** vs. the alkene in **7**.



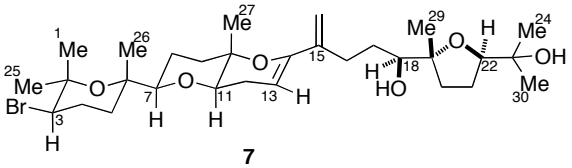
16



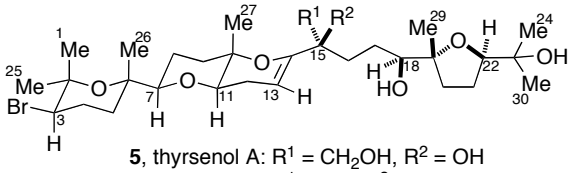
29



31



7



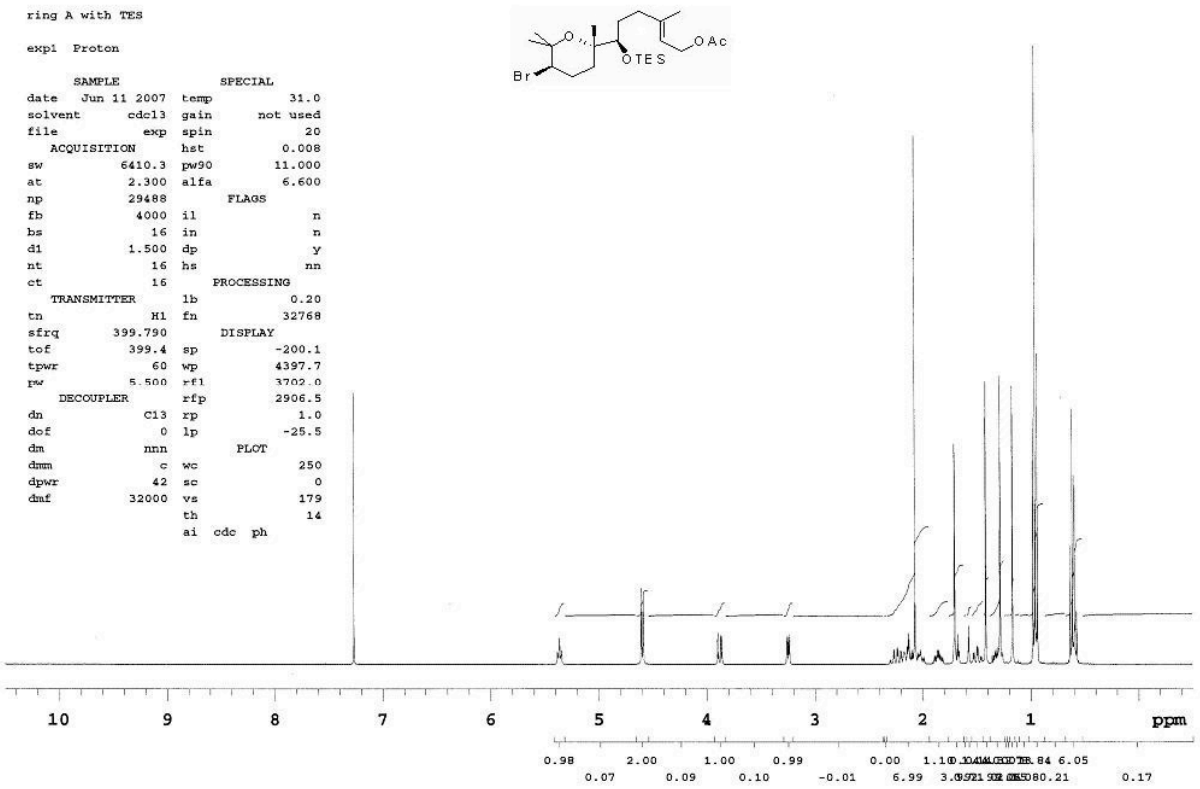
5, thyrsenol A: $R^1 = CH_2OH$, $R^2 = OH$
6, thyrsenol B: $R^1 = OH$, $R^2 = CH_2OH$

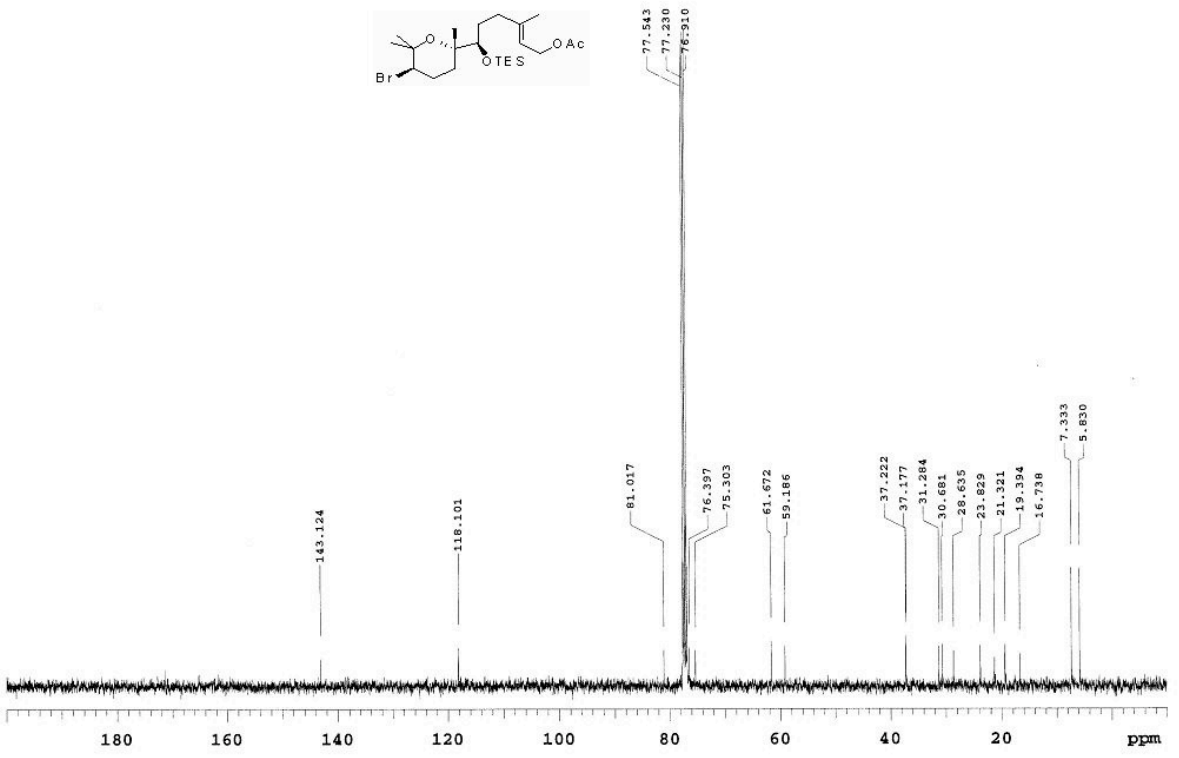
All values δ (ppm) were determined in $CDCl_3$ at 400 MHz (except **7**, at 600 MHz). Coupling constants *J* [in brackets] are given in Hz.

	16	**29**	**31**	**7**	**5** *	**6** *
H1	1.28	1.27	1.28	1.28	1.27	1.28
H25	1.42	1.40	1.41	1.41	1.40	1.41
H3	3.88 [12.6, 4.2]	3.91 [12.0, 4.4]	3.91 [12.0, 4.0]	3.91 [12.6, 4.2]	3.89 [12.4, 4.0]	3.90 [12.3, 4.4]
H26	1.17	1.20	1.21	1.22	1.21	1.22
H7	3.25 [7.8, 3.0]	3.04 [12.4, 3.6]	3.08 [10.6, 2.6]	3.10 [11.4, 1.8]	3.08 [11.2, 2.3]	3.09 [11.3, 2.3]
H27	(n/a)	1.19	1.10	1.13	1.07	1.08
H11	(n/a)	3.38 [8.0, 6.8]	3.33 [11.0, 5.6]	3.36 [10.8, 6.0]	3.31 [10.6, 6.0]	3.29 [10.6, 6.0]
H13	(n/a)	(n/a)	4.61 [5.6, 2.0]	4.93 (obscured)	5.02 [5.5, 2.0]	4.85 [5.4, 2.0]
H18	(n/a)	(n/a)	(n/a)	3.54 [10.2, 2.0]	3.92 [7.0, 7.0]	4.03 [7.0, 7.0]
H29	(n/a)	(n/a)	(n/a)	1.22	1.23	1.30
H22	(n/a)	(n/a)	(n/a)	3.76 [10.5, 5.7]	3.77 [9.5, 6.0]	3.79 [10.3, 4.9]
H24	(n/a)	(n/a)	(n/a)	1.11	1.12	1.12
H30	(n/a)	(n/a)	(n/a)	1.13	1.21	1.24

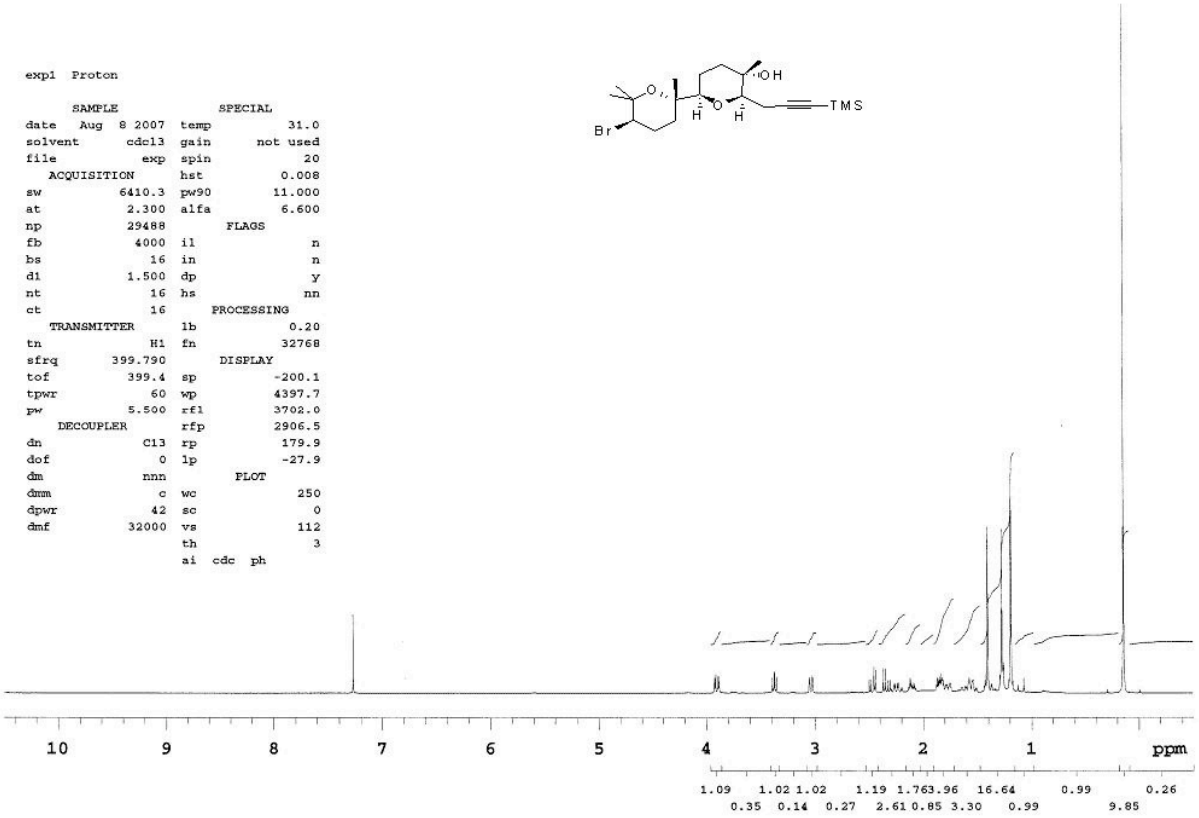
* ^{1}H NMR values in $CDCl_3$ from: M. Norte, J. J. Fernández, M. L. Souto, J. Gavín, and M. D. Gracía-Grávalos, *Tetrahedron,* 1997, **53**, 3173.

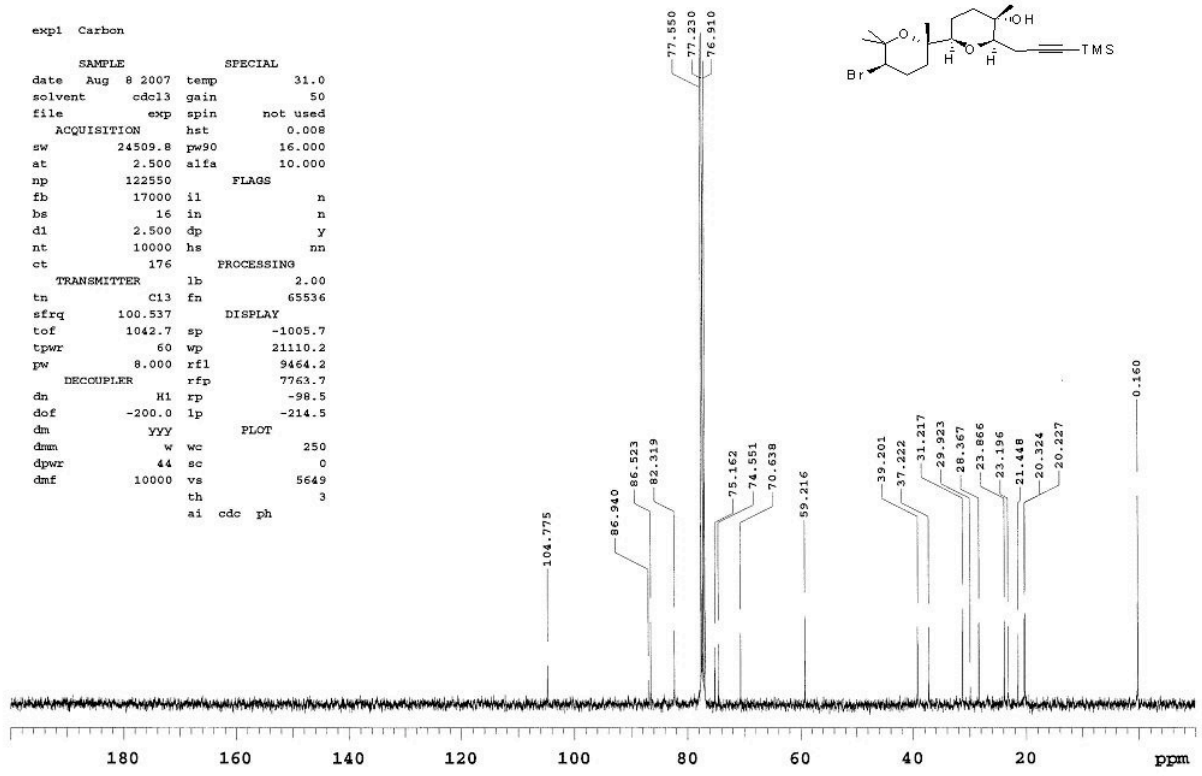
^{1}H and ^{13}C NMR spectra for compound **16**:



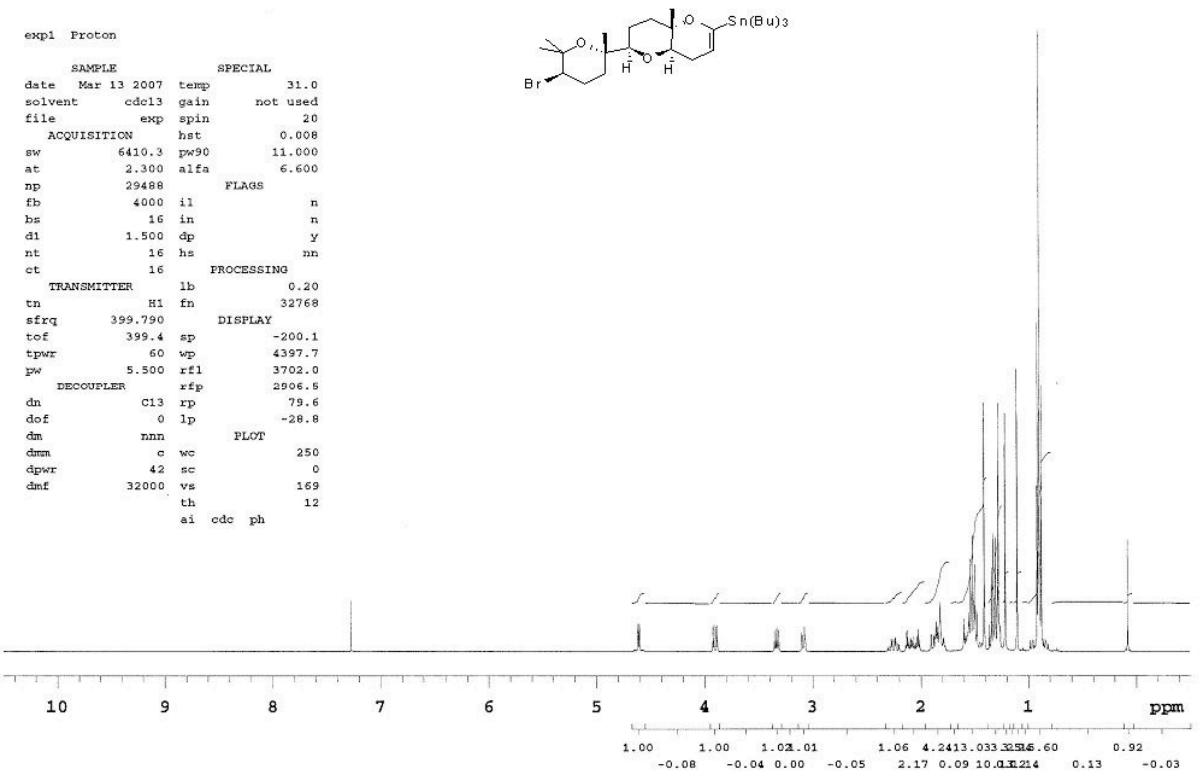


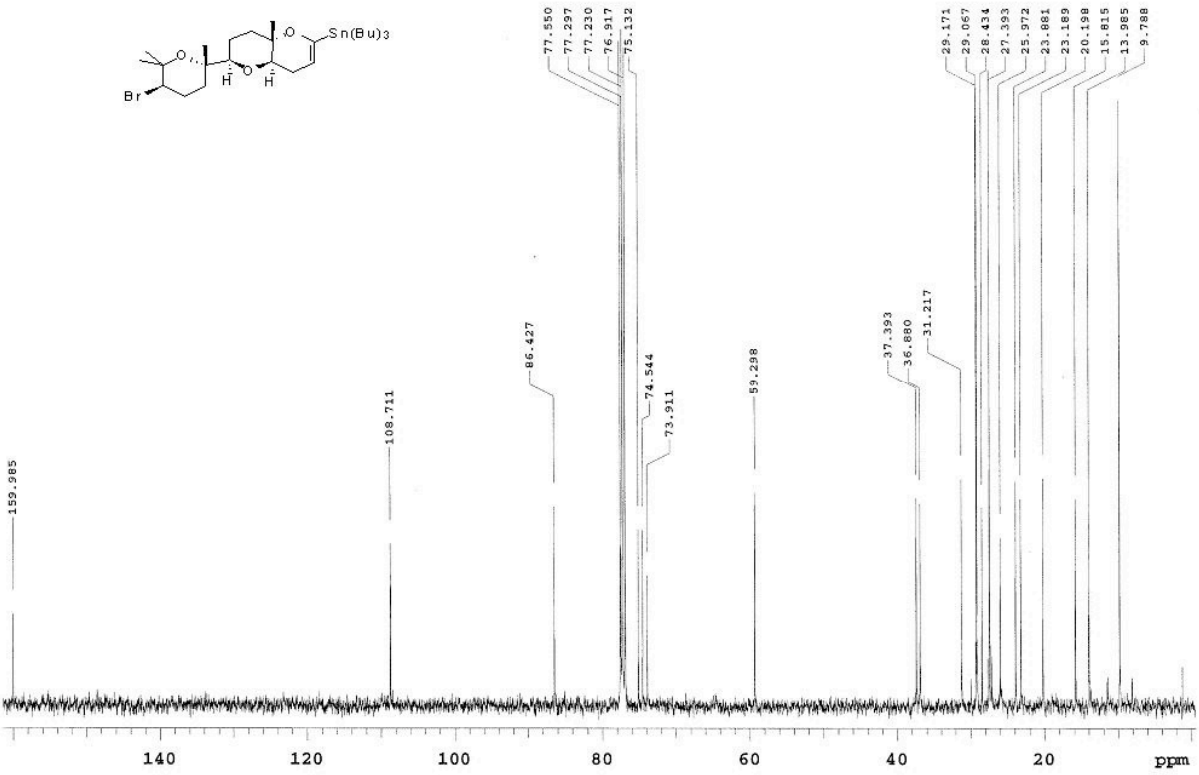
^{1}H and ^{13}C NMR spectra for compound **29**:





^{1}H and ^{13}C NMR spectra for compound **31**:





^{1}H and ^{13}C NMR spectra for compound **7**: