Supporting Information

Microbial modifications of androstane and androstene steroids by *Penicillium vinaceum*

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Contents:

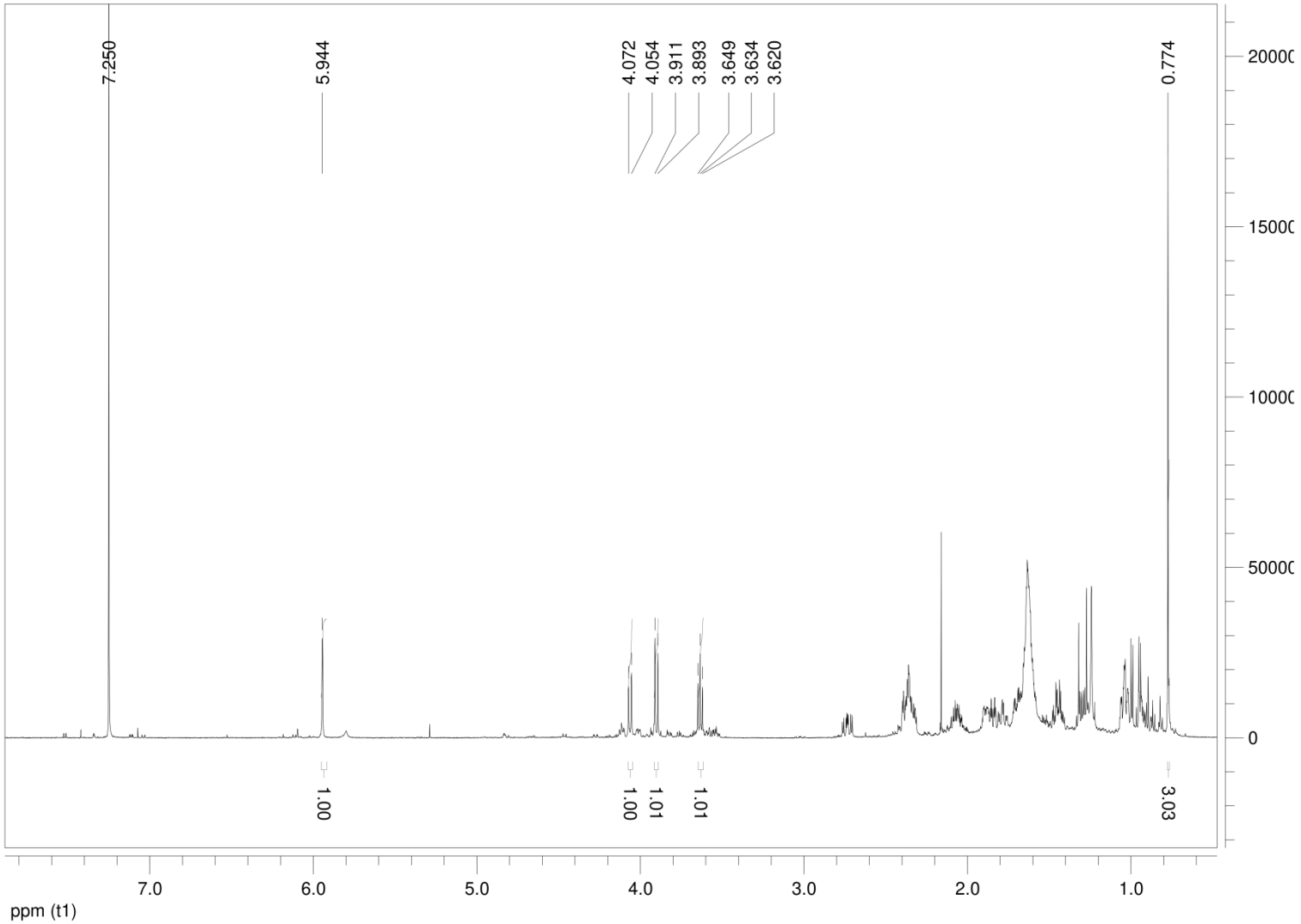


Figure S1.[1]H NMR spectrum of 17β,19-dihydroxyandrost-4-en-3-one (**12**)

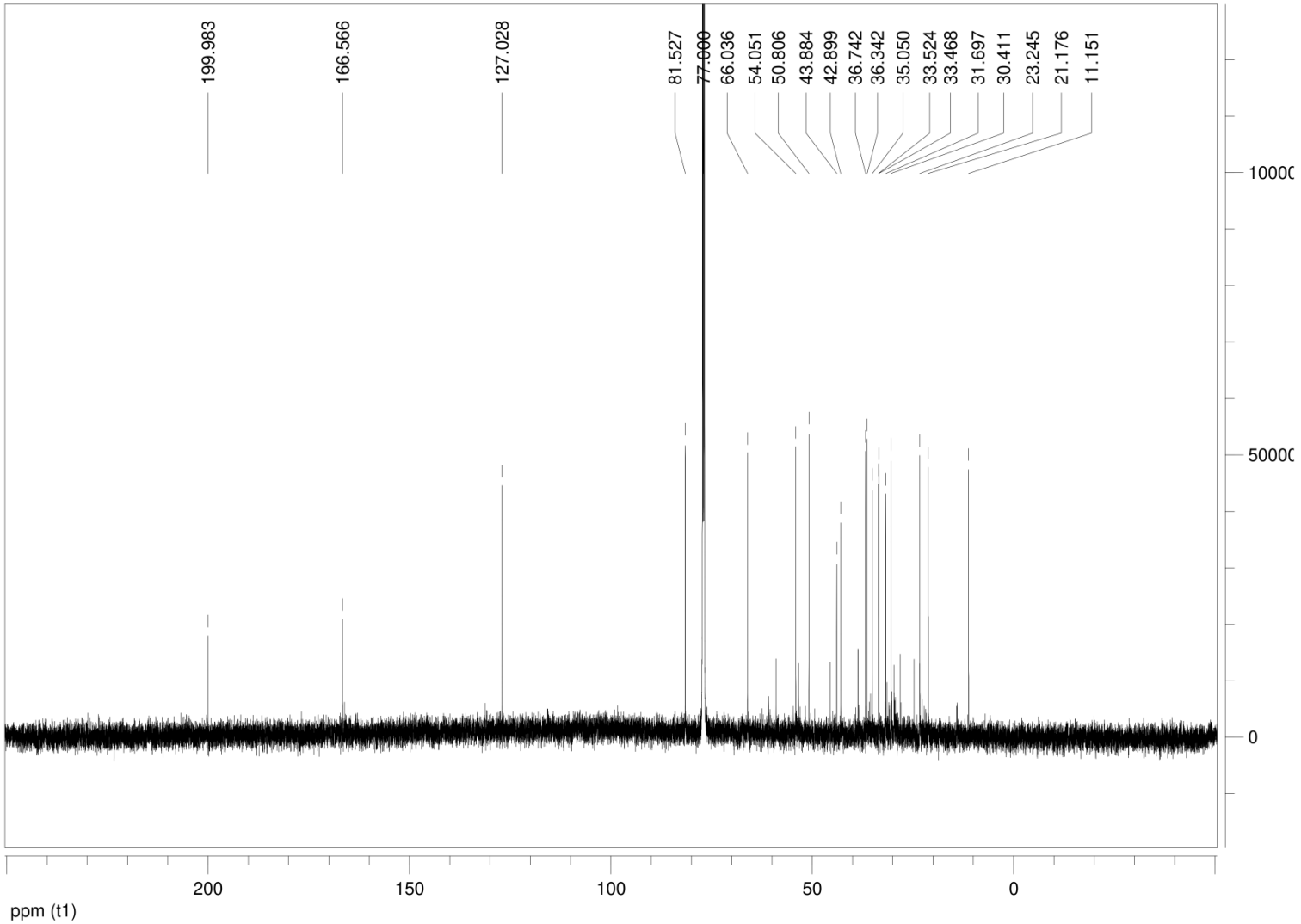


Figure S2.^{13}C NMR spectrum of 17β,19-dihydroxyandrost-4-en-3-one (**12**)

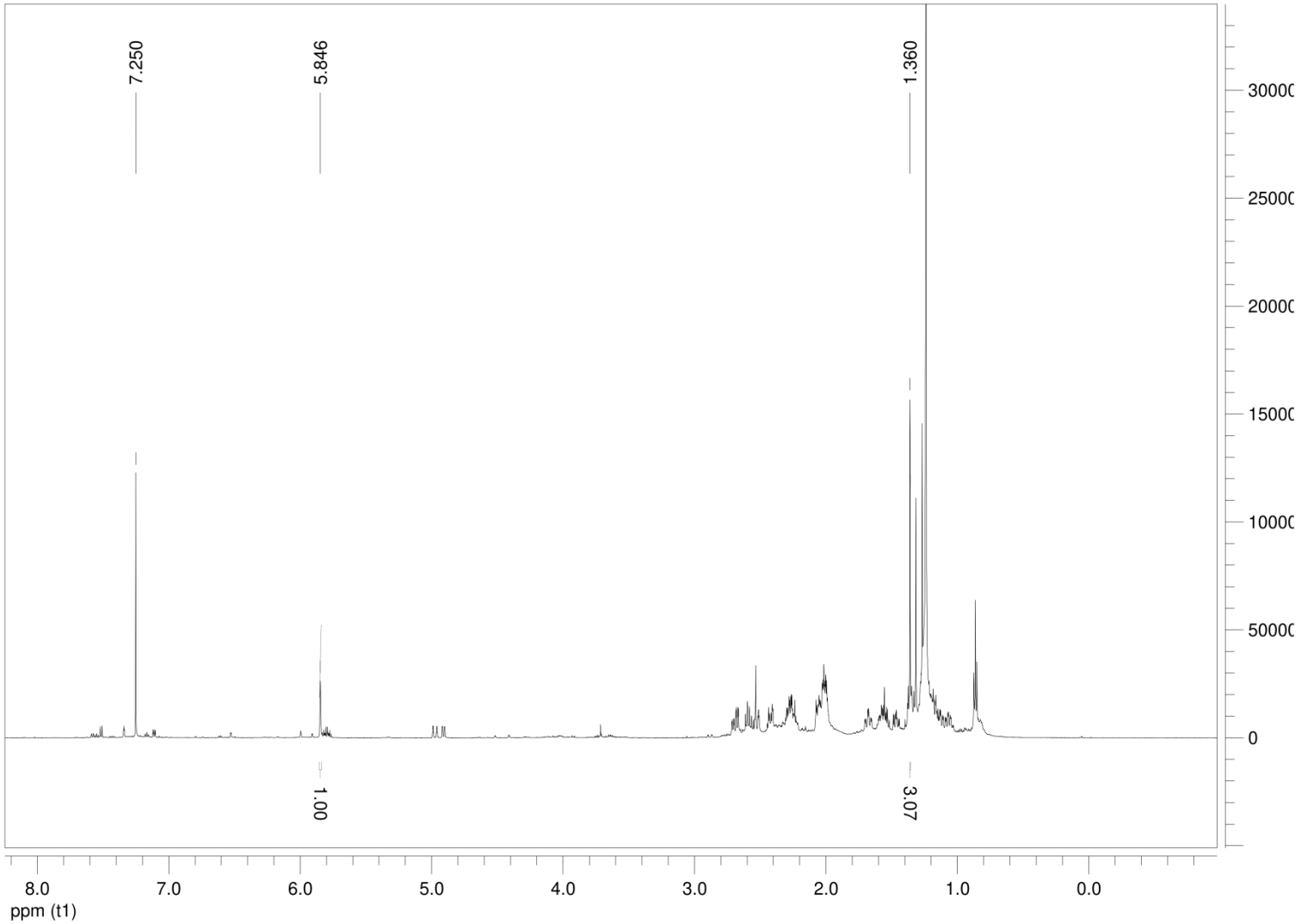


Figure S3.[1]H NMR spectrum of 19-nortestololactone (**13**)

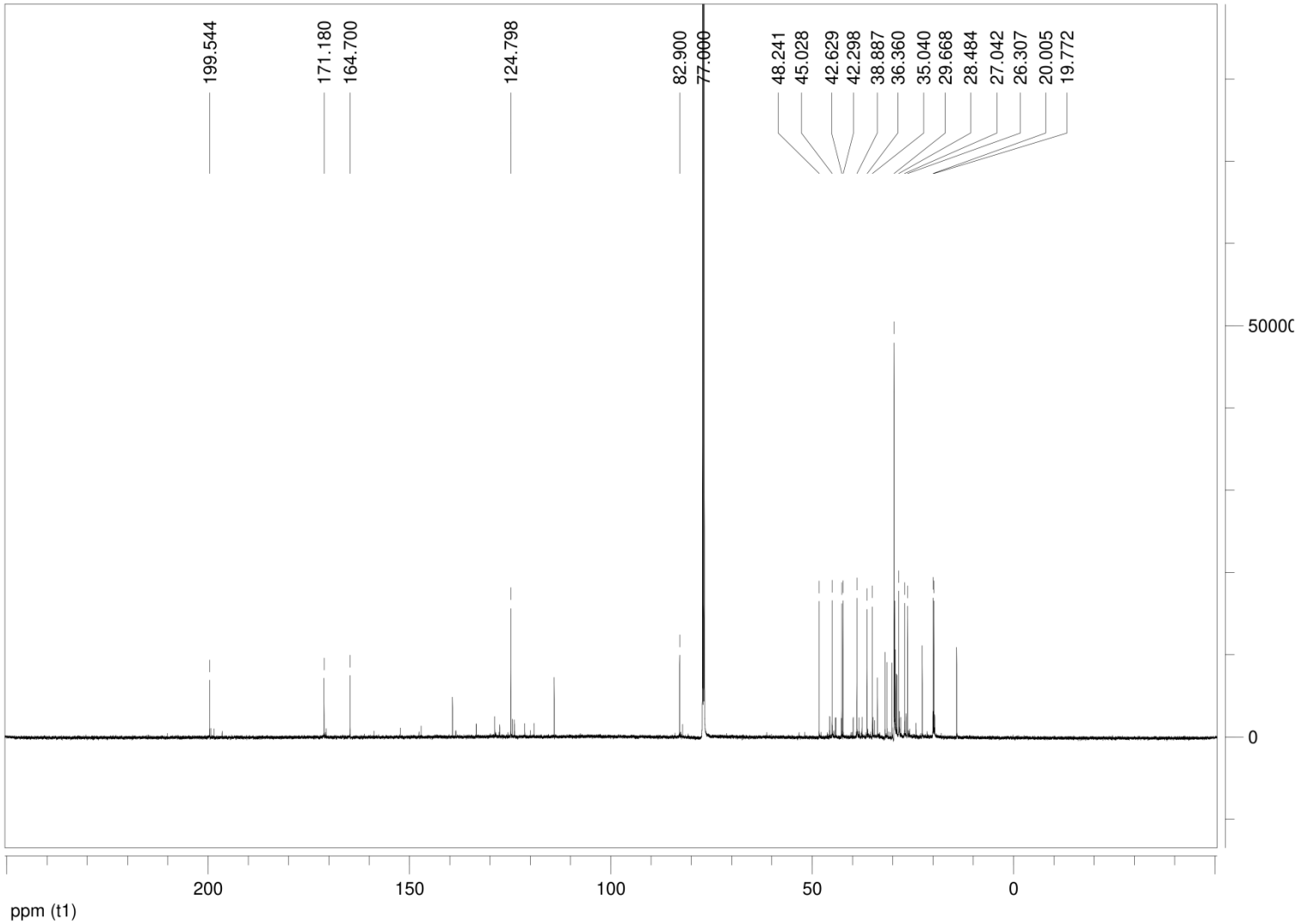
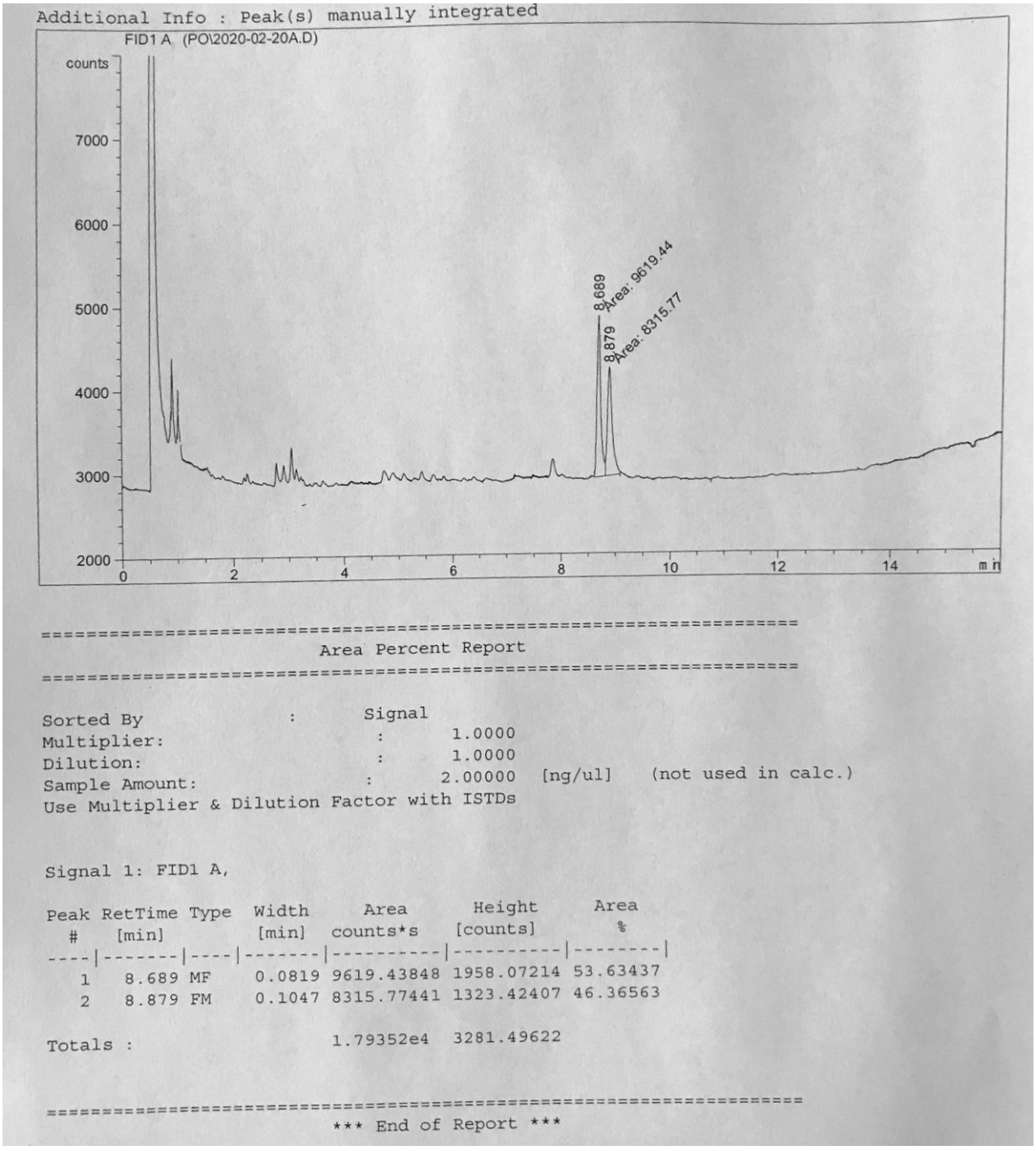


Figure S4.^{13}C NMR spectrum of 19-nortestololactone (**13**)

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Dilution:                     :      1.0000
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Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime Type  Width     Area      Height      Area
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   2   8.879 FM    0.1047 8315.77441 1323.42407 46.36563

Totals :                  1.79352e4  3281.49622

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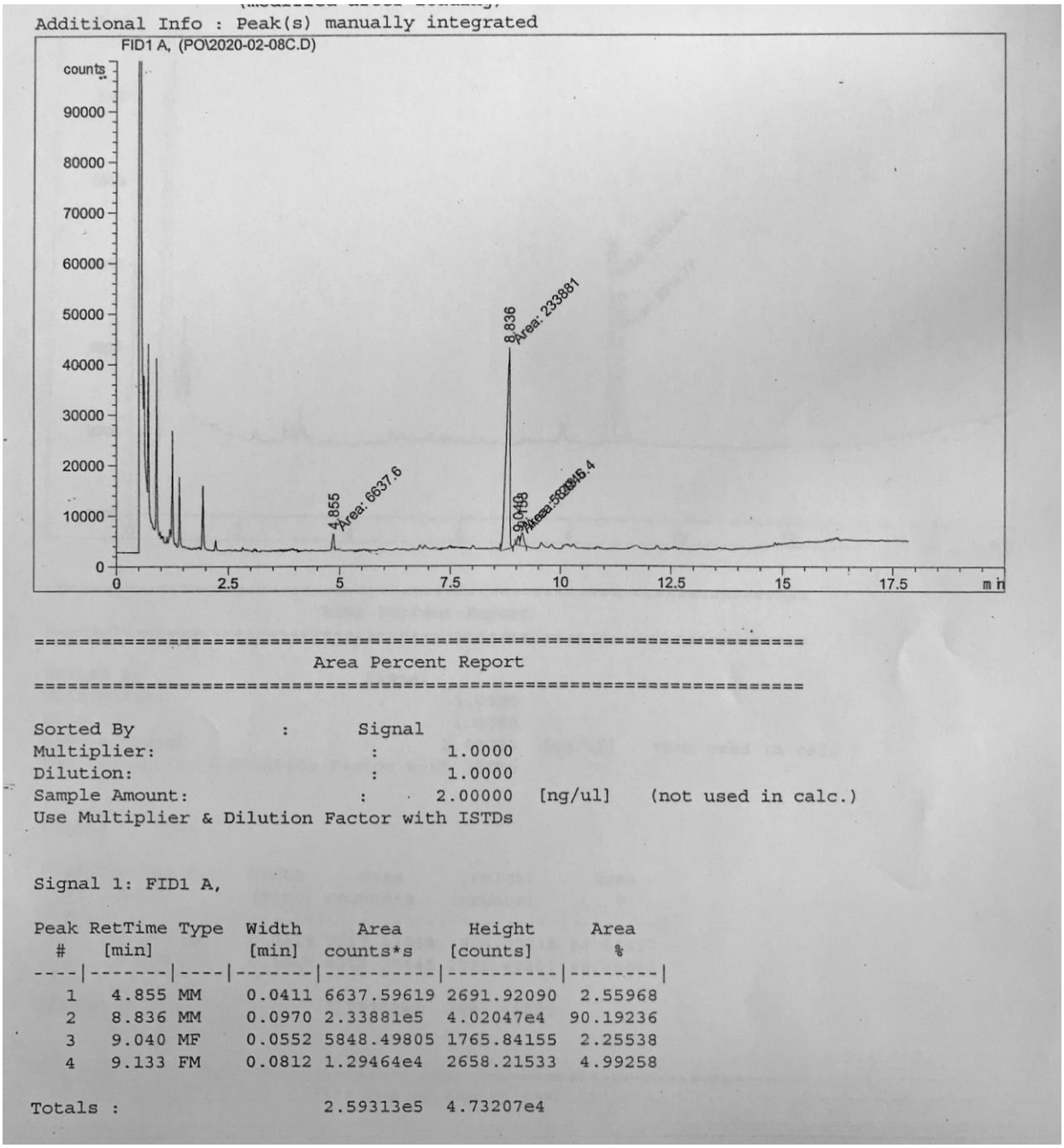
Figure S5. GC spectrum of 17β,19-dihydroxyandrost-4-en-3-one (**12**). This spectrum was obtained from extracts isolated during time course experiments and contains signals from the substrate **5** and the product **12**.



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2	8.836	MM	0.0970	2.33881e5	4.02047e4	90.19236
3	9.040	MF	0.0552	5848.49805	1765.84155	2.25538
4	9.133	FM	0.0812	1.29464e4	2658.21533	4.99258
Totals :				2.59313e5	4.73207e4	

Figure S6. GC spectrum of 19-nortestololactone (**13**). This spectrum was obtained from extracts isolated during time course experiments and contains signals from the substrate **7** and the product **13**.