

Supporting Information

Rec. Nat. Prod. **8:4** (2014) 317-322

Two New Alkaloids from the Roots of *Stemona tuberosa*

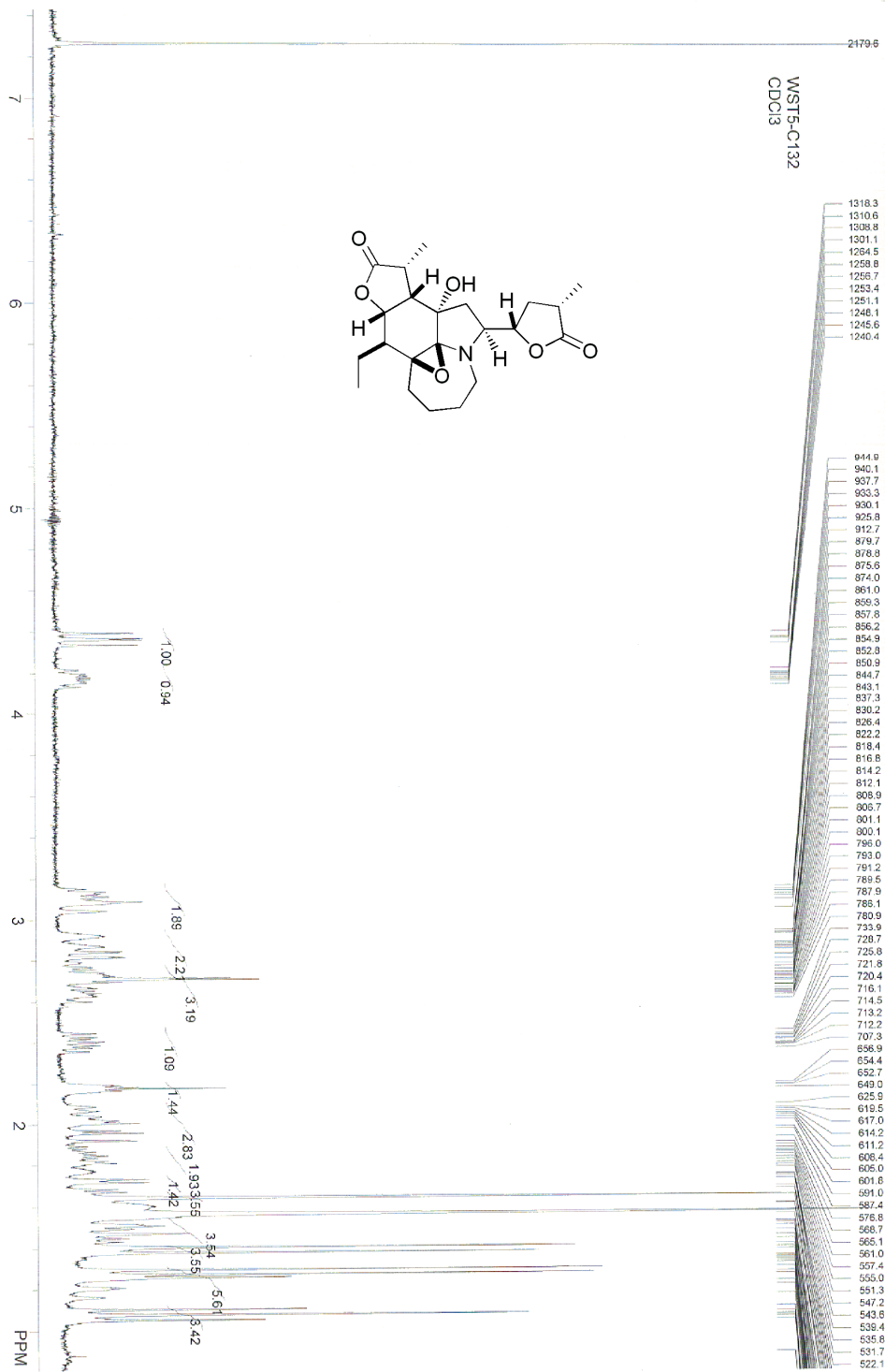
Li-Gen Lin^{*1,2}, Chang-Qiang Ke¹, Yi-Tao Wang² and Yang Ye¹

¹ State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 555 Zu-Chong-Zhi Road, Zhangjiang Hi-tech Park, 201203, Shanghai, China

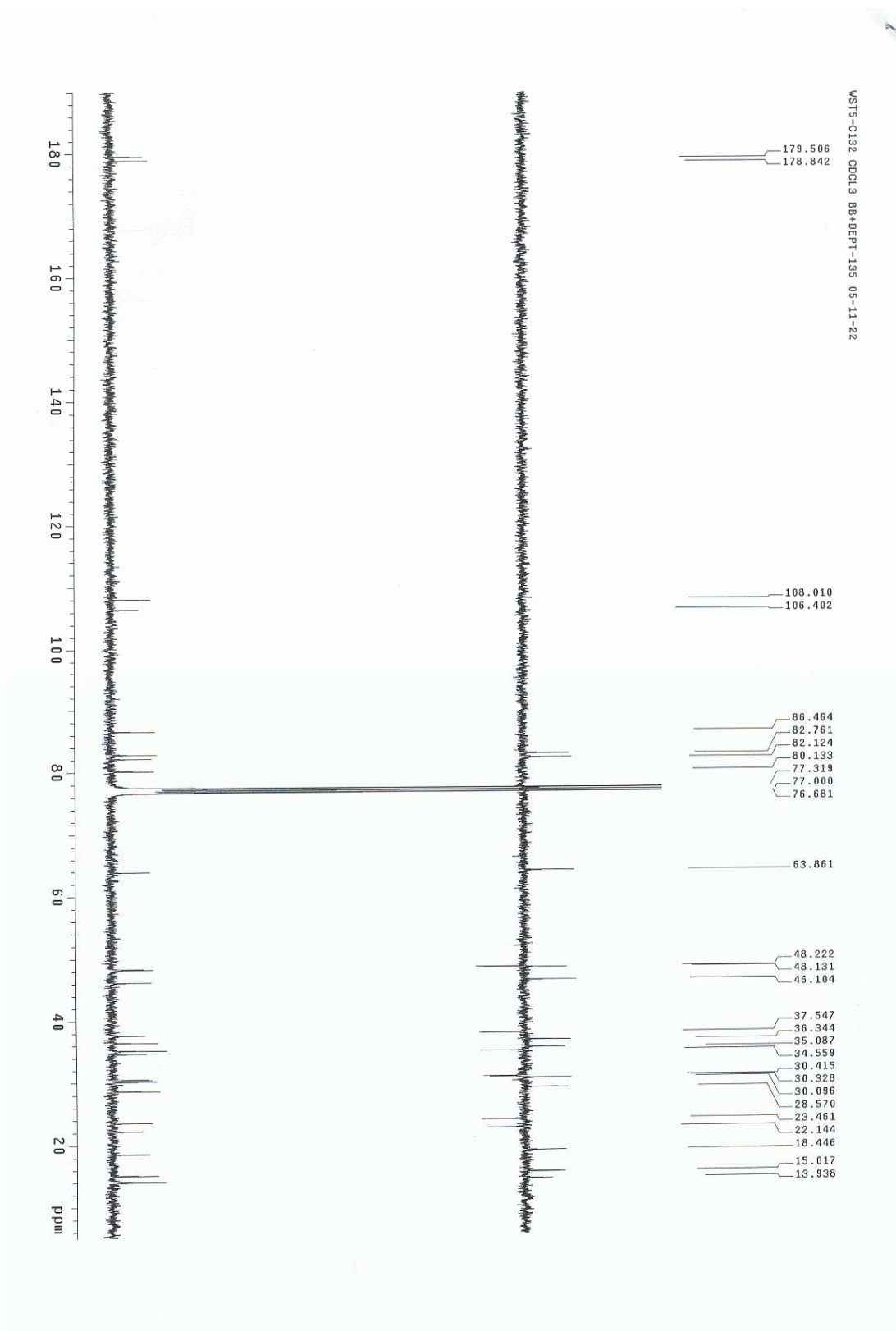
² State Key Laboratory of Quality Research in Chinese Medicine, Institute of Chinese Medical Sciences, University of Macau, Taipa, Macau SAR, China

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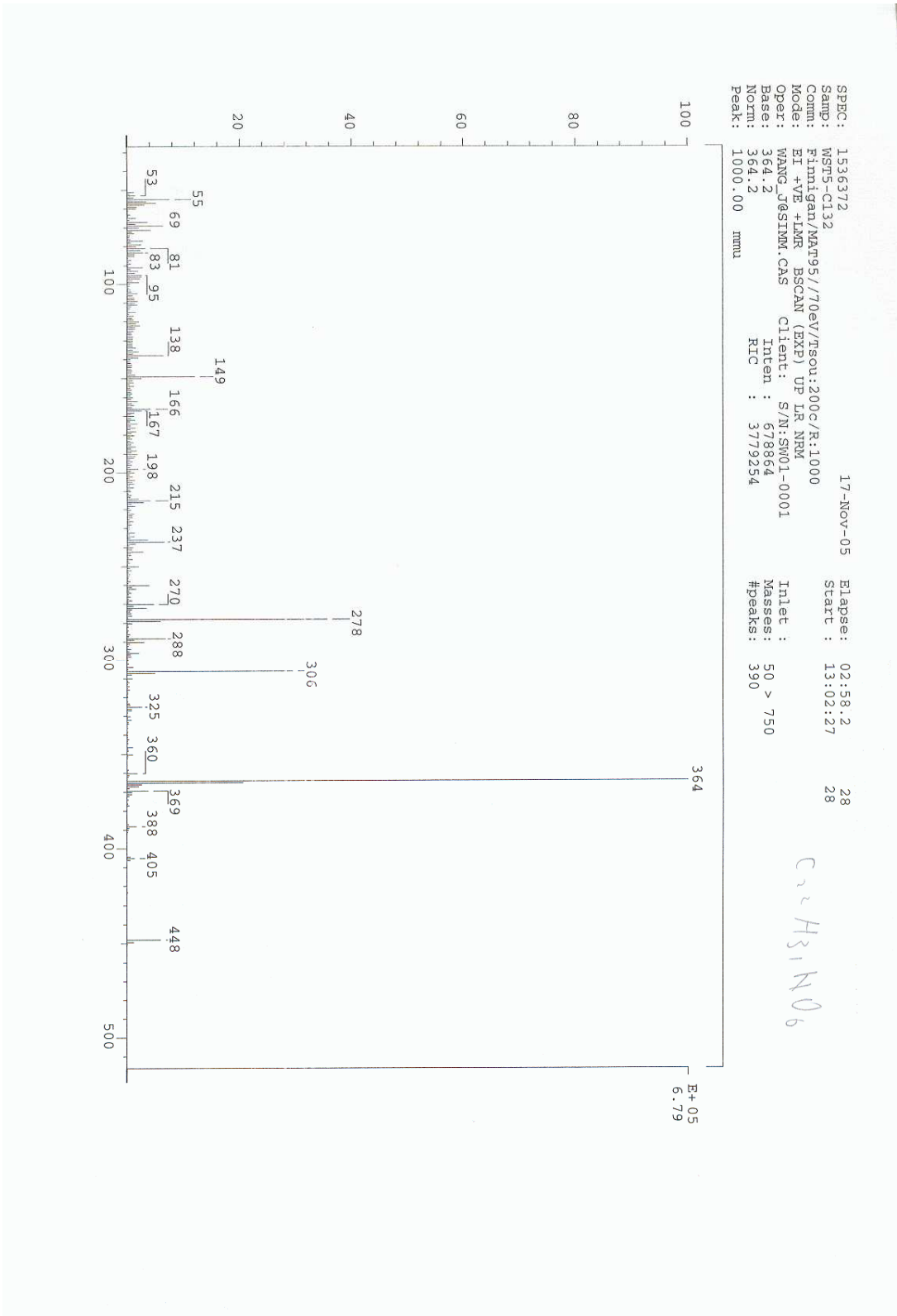
* Corresponding author: E- Mail: LigenL@umac.mo, Phone: 853-83974873, Fax: 853-28841358



S1: ¹H-NMR spectrum of epoxy-tuberostemonol (**1**)



S2: ^{13}C -NMR spectrum of epoxy-tuberostemonol (1)

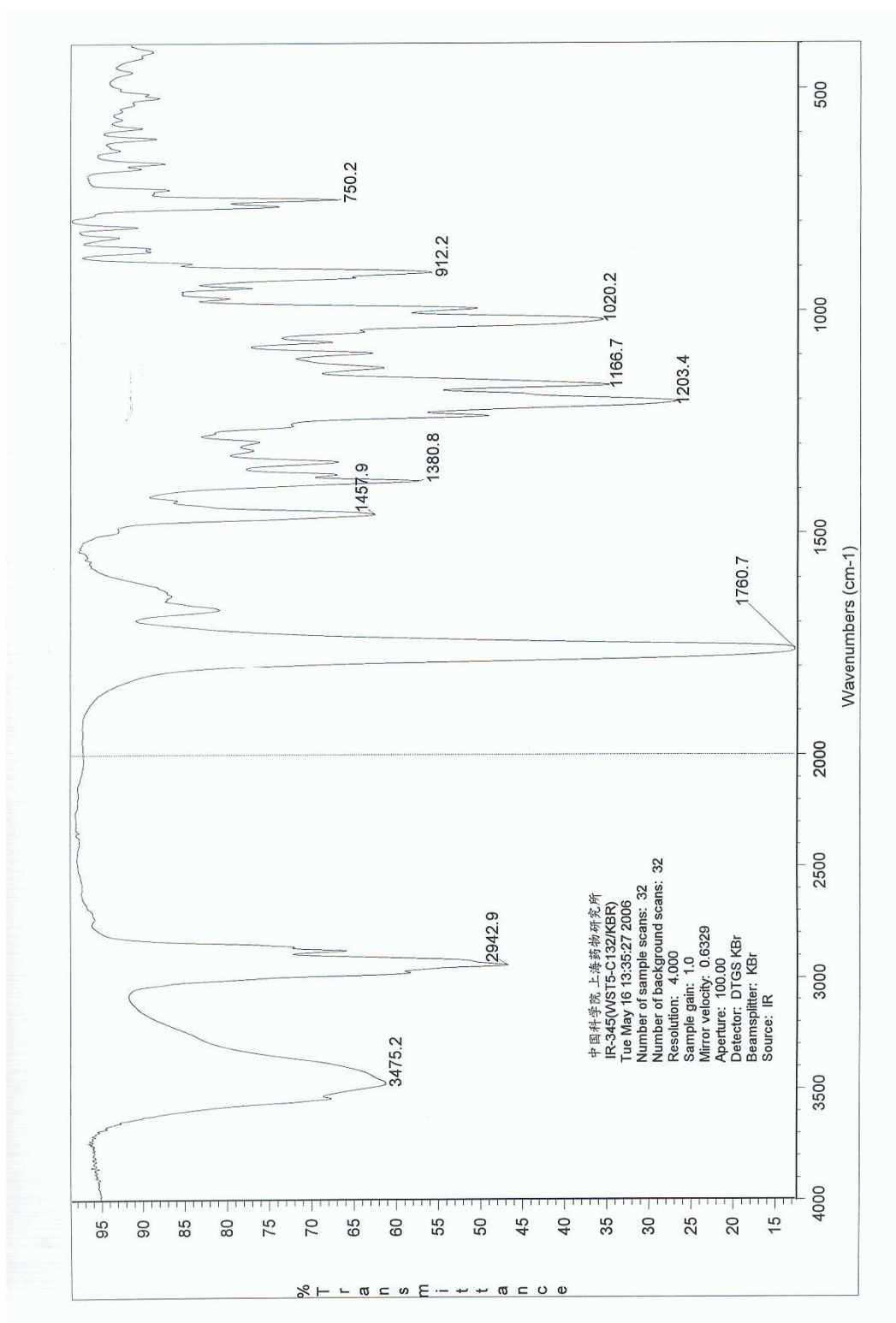


S3: EI-MS spectrum of epoxy-tuberostemonol (**1**)

LIST: h61786-c1 19-May-06 Elapse: 09:34.1 46
 Samp: WST5-C132 Start : 15:39:03 46
 Comm: Finnigan/MAT95//70eV/Tsou:200c/R:10000
 Mode: EI +VE +LMR BSCAN (EXP) UP HR NRM
 Oper: WANG_J@SIMM.CAS Client: S/N:SW01-0001 Inlet :
 Limt: (0)
 : (527) C25.H100.N.07
 Peak: 1000.00 mmu R+D: -2.0 > 60.0
 Data: CMASS : converted

		22209		(mmu)			
Mass	Intensity	%RA	%RIC	Delta	R+D	Composition	
55.0187	*	35432	3.19	0.21	-0.3	2.5	C3.H3.O
55.0552	*	78321	7.05	0.46	-0.4	1.5	C4.H7
56.0499	*	26414	2.38	0.15	0.2	1.5	C3.H6.N
58.0405	*	63835	5.75	0.37	1.4	1.0	C3.H6.O
67.0541	*	37065	3.34	0.22	0.6	2.5	C5.H7
69.0340	*	70652	6.36	0.41	0.1	2.5	C4.H5.O
71.0496	*	34225	3.08	0.20	0.1	1.5	C4.H7.O
79.0554	*	29965	2.70	0.17	-0.6	3.5	C6.H7
82.0646	*	22935	2.07	0.13	1.0	2.5	C5.H8.N
						-1.6	-2.0 C2.H10.O3
91.0542	*	25846	2.33	0.15	0.6	4.5	C7.H7
99.0443	*	31456	2.83	0.18	0.3	2.5	C5.H7.O2
120.0819	*	27408	2.47	0.16	-0.6	4.5	C8.H10.N
138.0919	*	116452	10.49	0.68	0.0	3.5	C8.H12.N.O
						-2.7	-1.0 C5.H14.O4
166.0859	*	59859	5.39	0.35	0.9	4.5	C9.H12.N.O2
						-1.7	0.0 C6.H14.O5
215.1306	*	49563	4.46	0.29	0.4	7.0	C14.H17.N.O
						-2.3	2.5 C11.H19.O4
216.1378	*	25278	2.28	0.15	1.1	6.5	C14.H18.N.O
						-1.6	2.0 C11.H20.O4
236.1295	*	64474	5.81	0.38	-0.8	5.5	C13.H18.N.O3
237.1352	*	117517	10.58	0.68	1.3	5.0	C13.H19.N.O3
						-1.4	0.5 C10.H21.O6
242.1528	*	26556	2.39	0.15	-1.0	3.0	C13.H22.O4
						1.7	7.5 C16.H20.N.O
250.1444	*	53894	4.85	0.31	0.0	5.5	C14.H20.N.O3
						-2.7	1.0 C11.H22.O6
260.1632	*	69516	6.26	0.40	-0.8	2.0	C13.H24.O5
						1.9	6.5 C16.H22.N.O2
270.1504	*	37918	3.41	0.22	-1.0	8.5	C17.H20.N.O2
272.1640	*	22651	2.04	0.13	1.1	7.5	C17.H22.N.O2
						-1.6	3.0 C14.H24.O5
278.1759	*	953206	85.84	5.55	-0.3	5.5	C16.H24.N.O3
279.1798	*	170489	15.35	0.99	1.0	0.5	C13.H27.O6
288.1603	*	119647	10.77	0.70	-0.3	7.5	C17.H22.N.O3
						-3.0	3.0 C14.H24.O6
290.1749	*	41965	3.78	0.24	0.7	6.5	C17.H24.N.O3
						-2.0	2.0 C14.H26.O6
306.1711	*	372790	33.57	2.17	-0.6	6.5	C17.H24.N.O4
307.1753	*	66818	6.02	0.39	0.4	1.5	C14.H27.O7
308.1811	*	25562	2.30	0.15	2.4	1.0	C14.H28.O7
332.1863	*	30249	2.72	0.18	-0.1	7.5	C19.H26.N.O4
						-2.8	3.0 C16.H28.O7
346.2007	*	41681	3.75	0.24	1.1	7.5	C20.H28.N.O4
						-1.6	3.0 C17.H30.O7
360.2163	*	25278	2.28	0.15	1.2	7.5	C21.H30.N.O4
						-1.5	3.0 C18.H32.O7
364.2107	*	1110488	100.00	6.46	1.7	6.5	C20.H30.N.O5
365.2148	*	208904	18.81	1.22			
366.2168	*	34225	3.08	0.20	2.7	10.0	C24.H30.O3
369.1927	*	29042	2.62	0.17	1.3	10.0	C22.H27.N.O4
						-1.4	5.5 C19.H29.O7
405.2150	*	24923	2.24	0.15	0.1	8.0	C22.H31.N.O6
448.2331	*	62344	5.61	0.36	0.4	8.5	C24.H34.N.O7

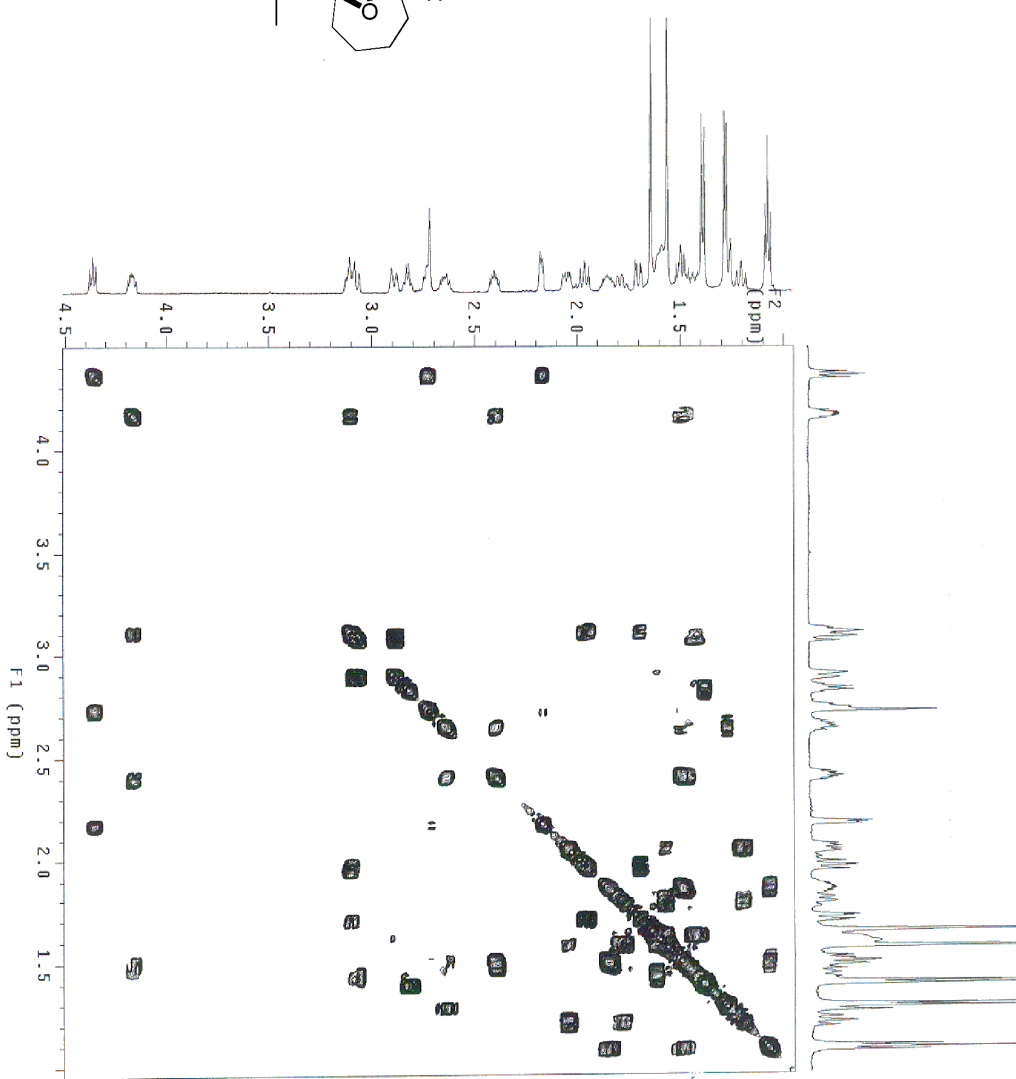
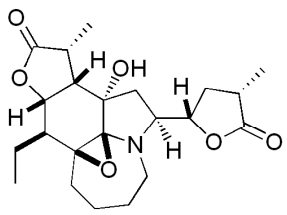
S4: HR-EI-MS spectrum of epoxy-tuberostemonol (1)



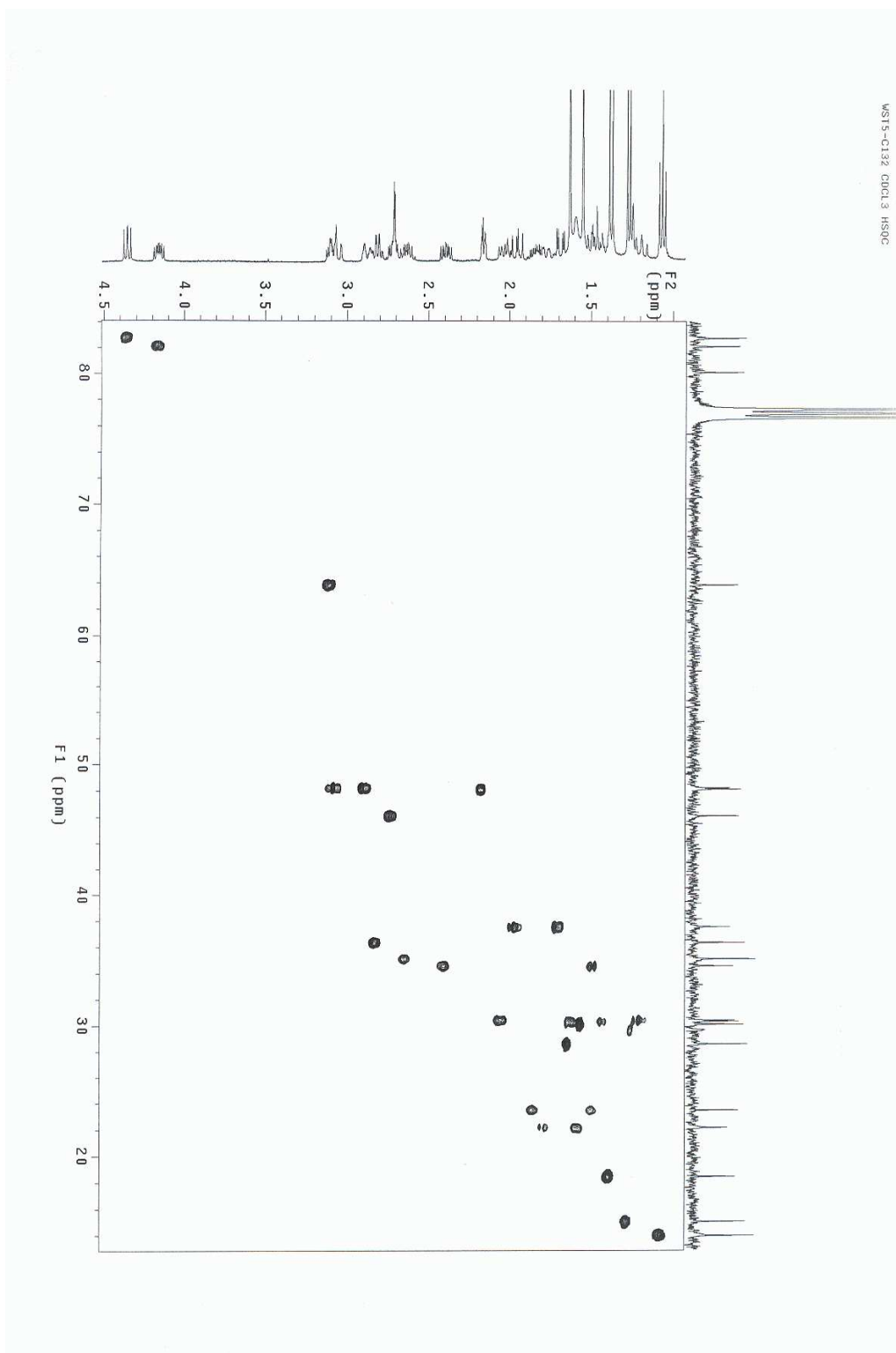
S5: IR spectrum of epoxy-tuberostemonol (1)

MS15-C132 CDCl3 COSY-45

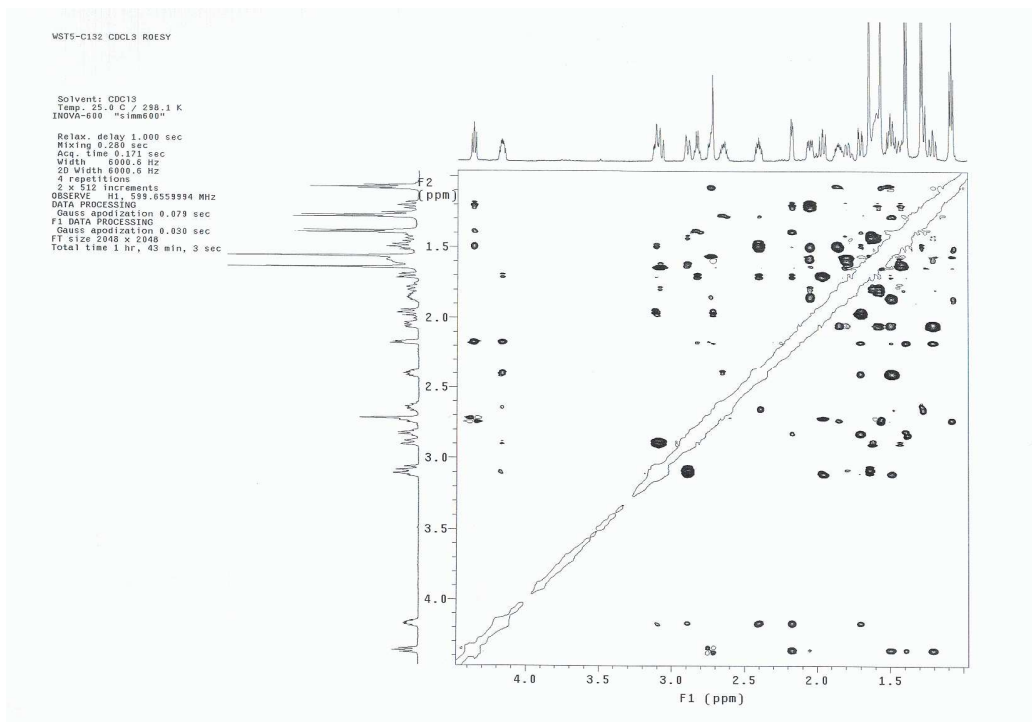
Solvent: CDCl3
INNOVA-500
Relax. delay 1.000 sec
COSY 90-45
Acq. time 0.128 sec
ZD Width 8000.0 Hz
4 repetitions
S12 increments
DMS-PROCESSED
S4. sine bet1 0.064 sec
F1 DATA PROCESSING
S9. sine bet1 0.024 sec
F1 size 2048 x 2048
Total time 59 min, 59 sec



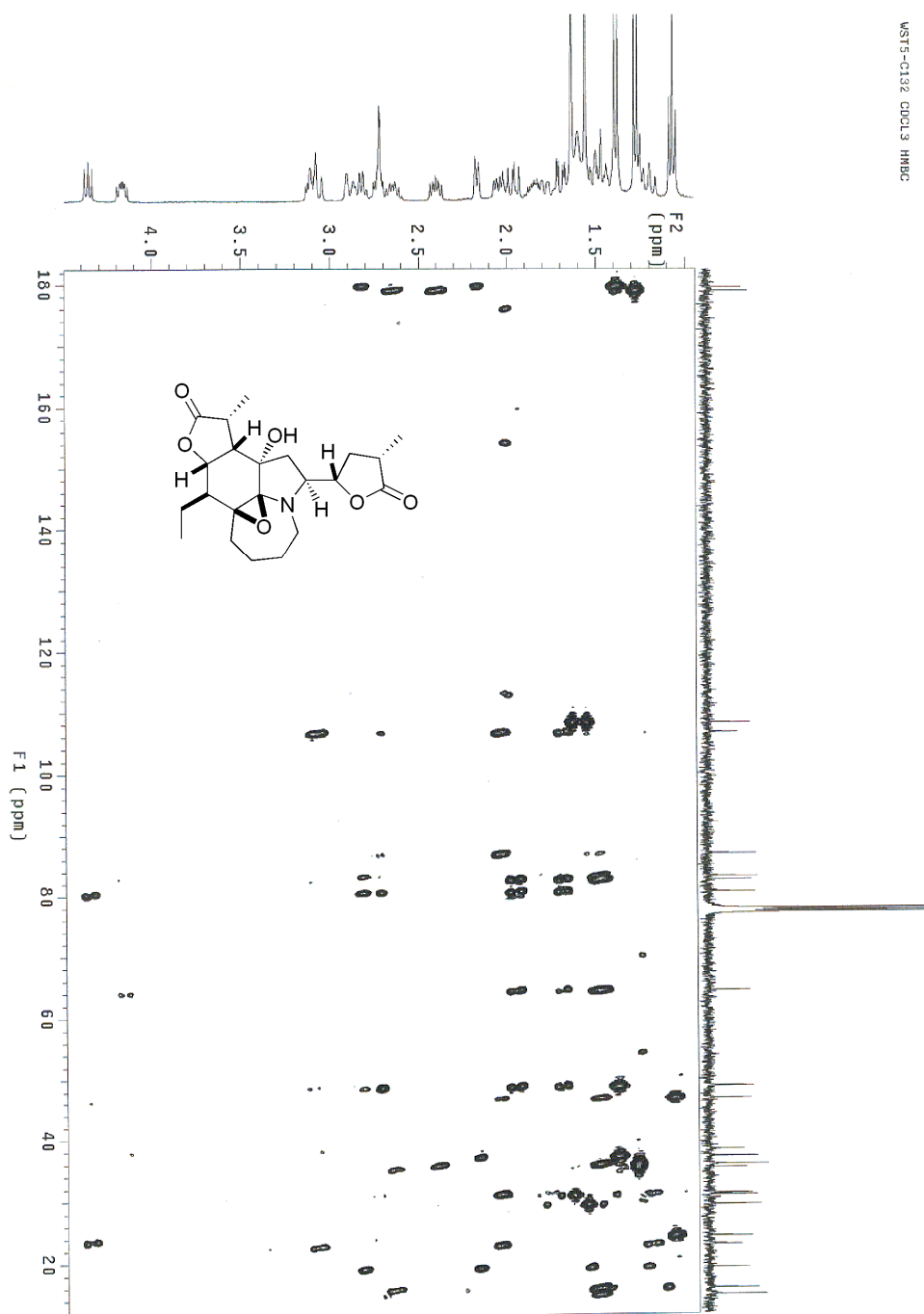
S6: ^1H - ^1H COSY spectrum of epoxy-tuberostemonol (1)



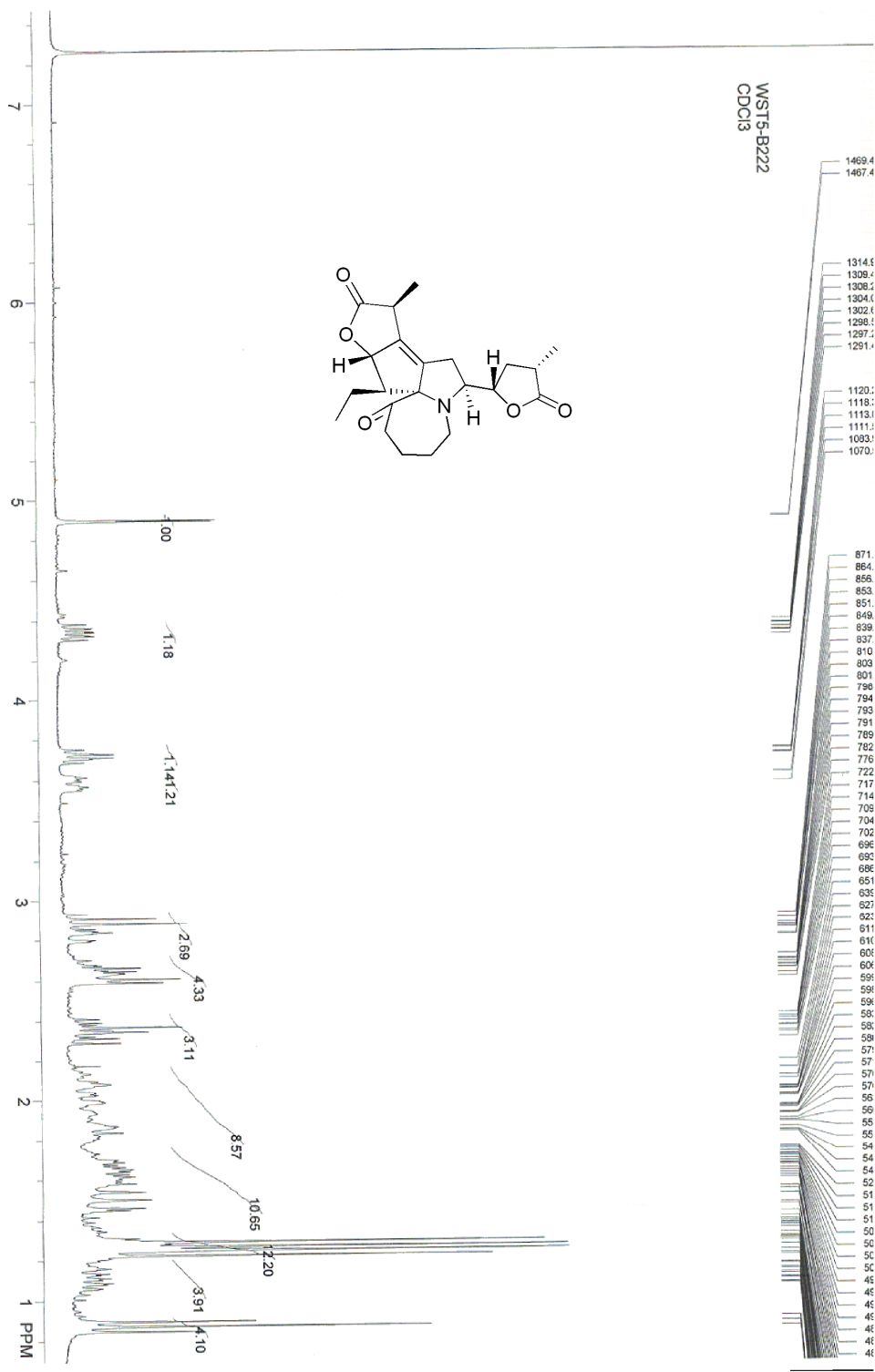
S7: HSQC spectrum of epoxy-tuberostemonol (**1**)



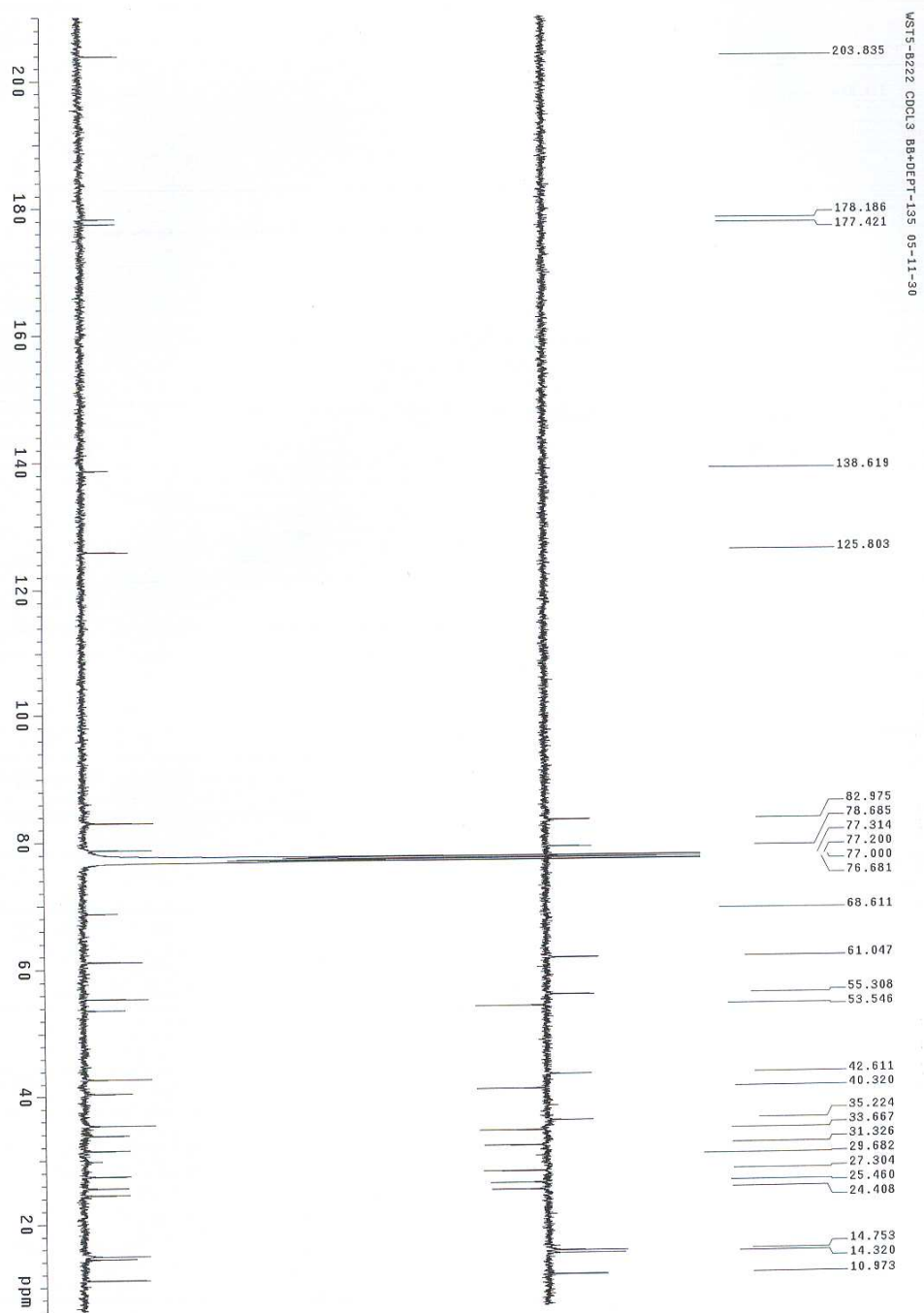
S8: ROESY spectrum of epoxy-tuberostemonol (**1**)



S9: HMBC spectrum of epoxy-tuberostemonol (**1**)



S10: ¹H-NMR spectrum of neutuberostemoone (2)



S11: ^{13}C -NMR spectrum of neotuberostemoone (**2**)

Display Report

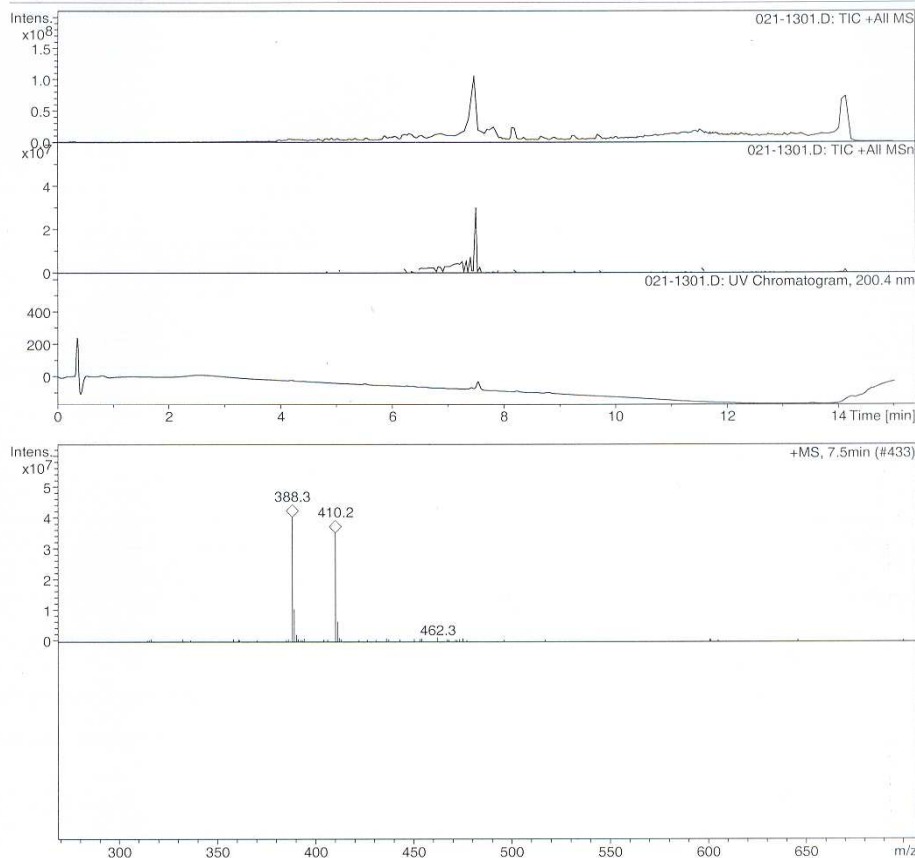
Analysis Info

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Method Copy of SOPMSMSP.M
Sample Name yye-5B-222
Comment □Ü□

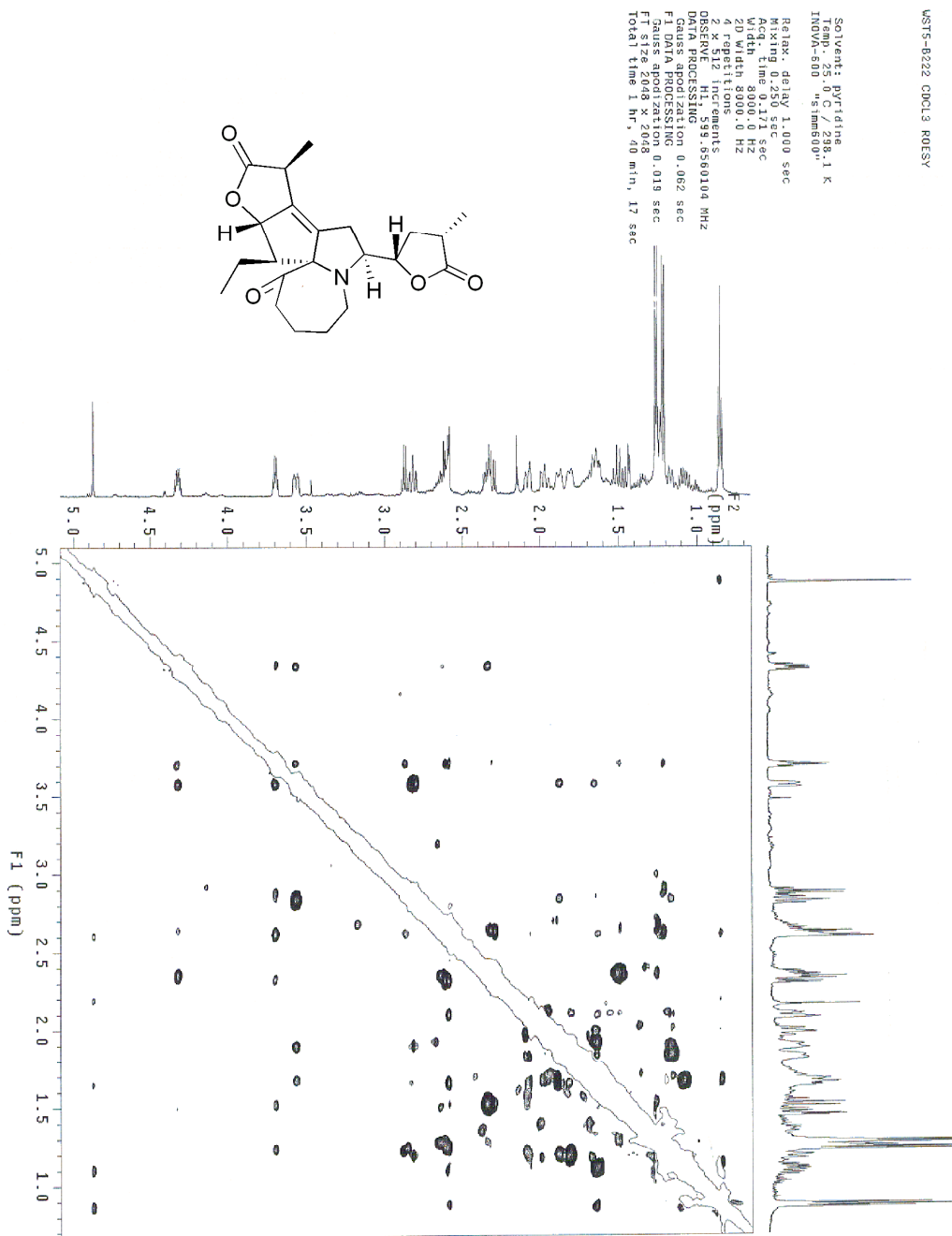
Acquisition Date 11/24/05 12:25:31
Operator Administrator
Instrument esquire3000plus_01005

Acquisition Parameter

Ion Source Type	ESI	Ion Polarity	Positive	Alternating Ion Polarity	off
Mass Range Mode	Std/Normal	Scan Begin	100 m/z	Scan End	1750 m/z
Capillary Exit	160.0 Volt	Skim 1	40.0 Volt	Trap Drive	78.0
Accumulation Time	13092 μ s	Averages	3 Spectra	Auto MS/MS	on



S12: LC-MS spectrum of neotuberostemoeone (2)



S13: ROESY spectrum of neutuberostemoone (**2**)