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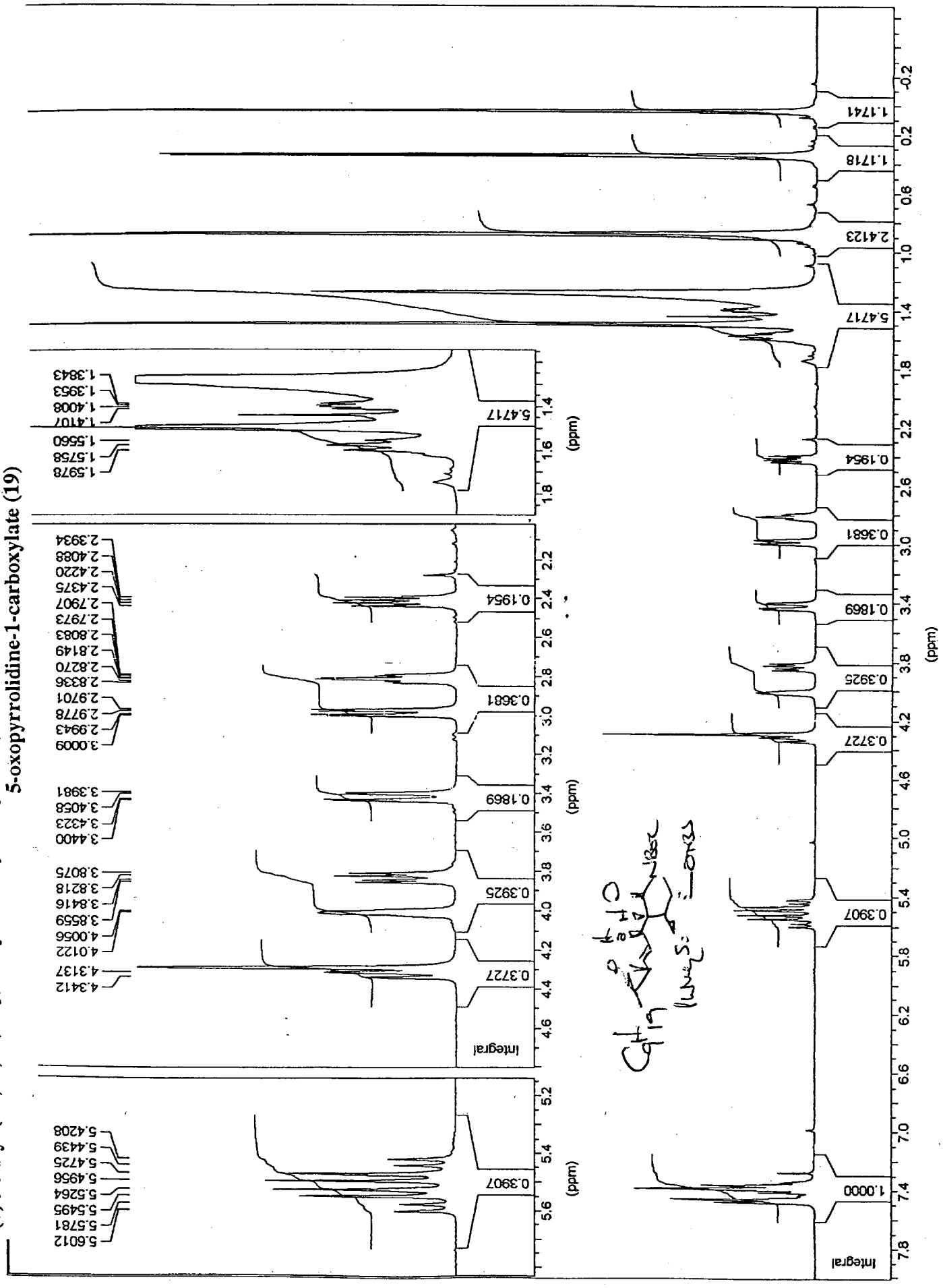
(+)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-(4*R*,5*R*)-epoxytetradec-1*R*-hydroxy-2-enyl]-5-oxopyrrolidine-1-carboxylate (19)



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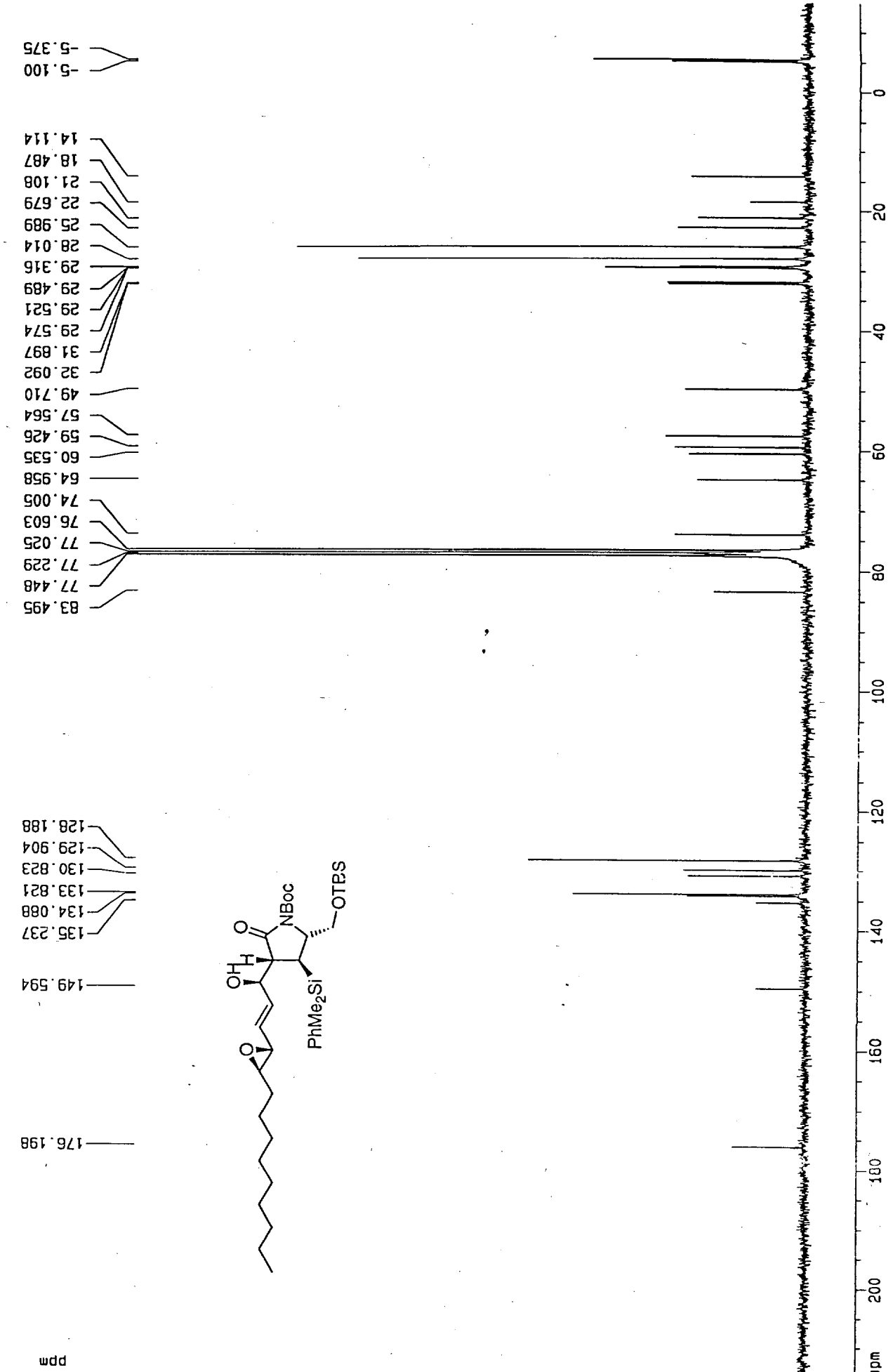
(+)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-(4*R*,5*R*)-epoxytetradec-1*R*-hydroxy-2-enyl]-5-oxopyrrolidine-1-carboxylate (19)



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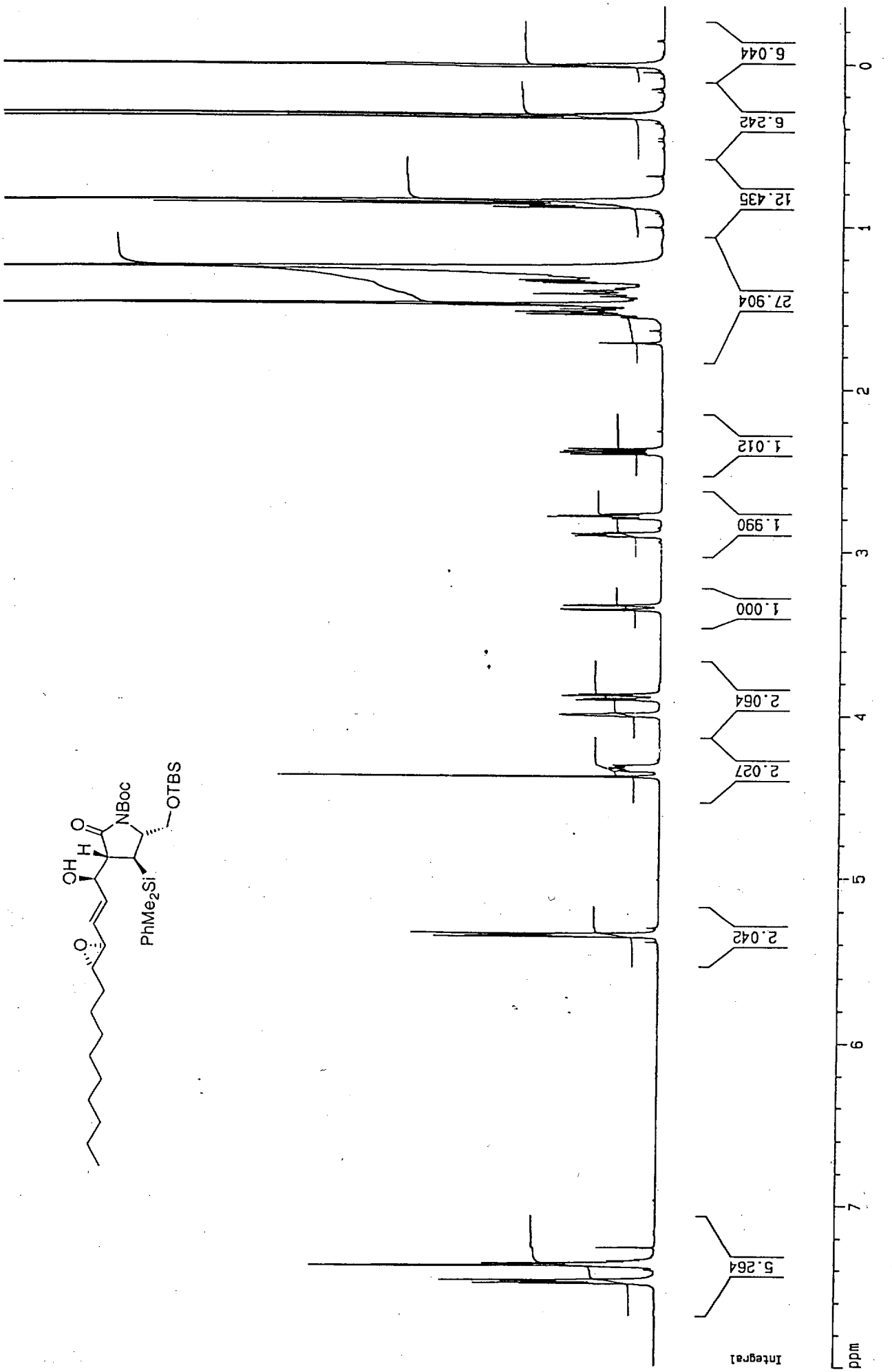
(-)-*t*-butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-(4*S*,5*S*)-epoxytetradec-1*R*-hydroxy-2-enyl]-5-oxopyrrolidine-1-carboxylate (20).



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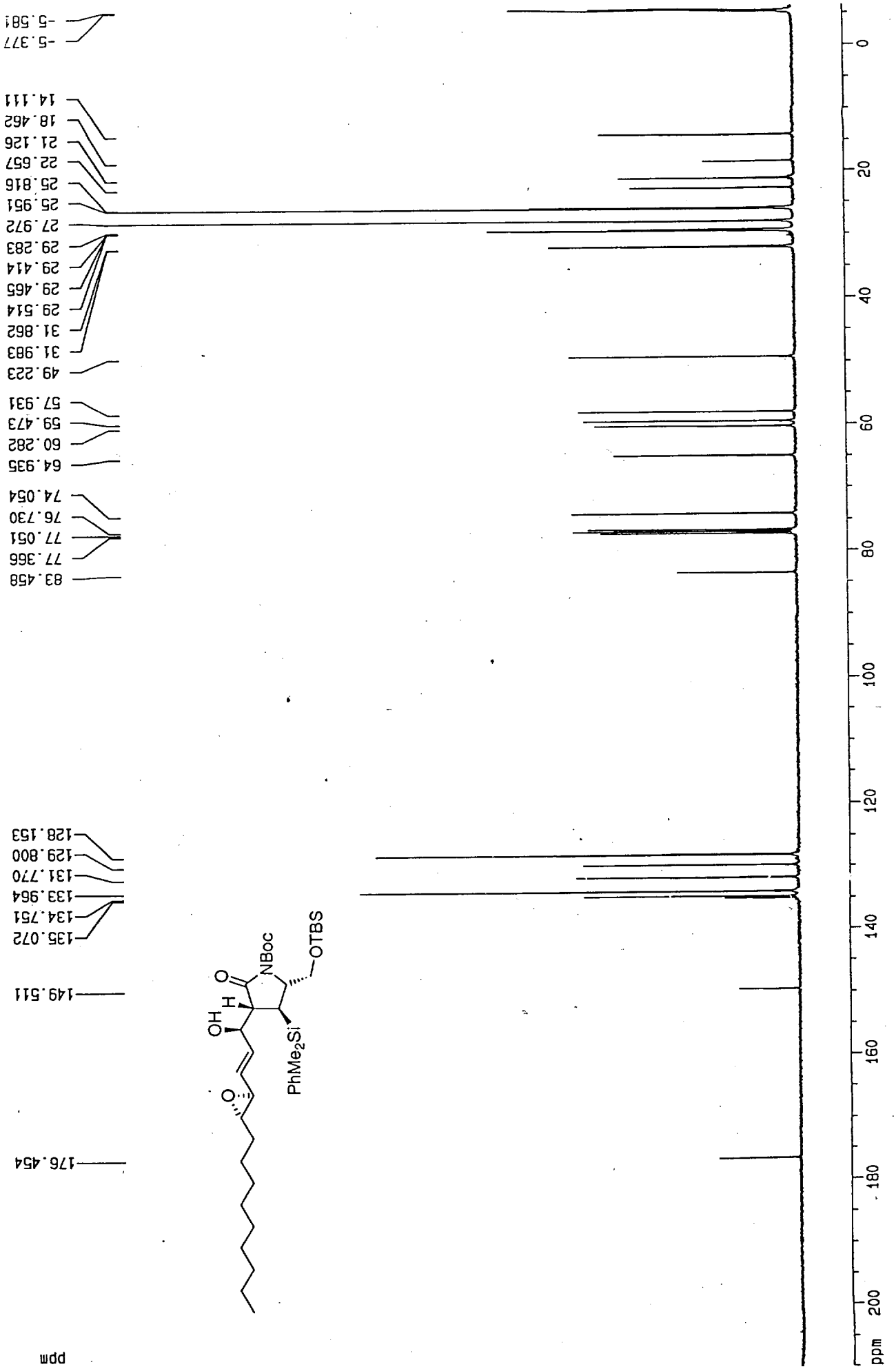
(-)-*t*-butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-(4*S*,5*S*)-epoxytetradec-1*R*-hydroxy-2-enyl]-5-oxopyrrolidine-1-carboxylate (20).



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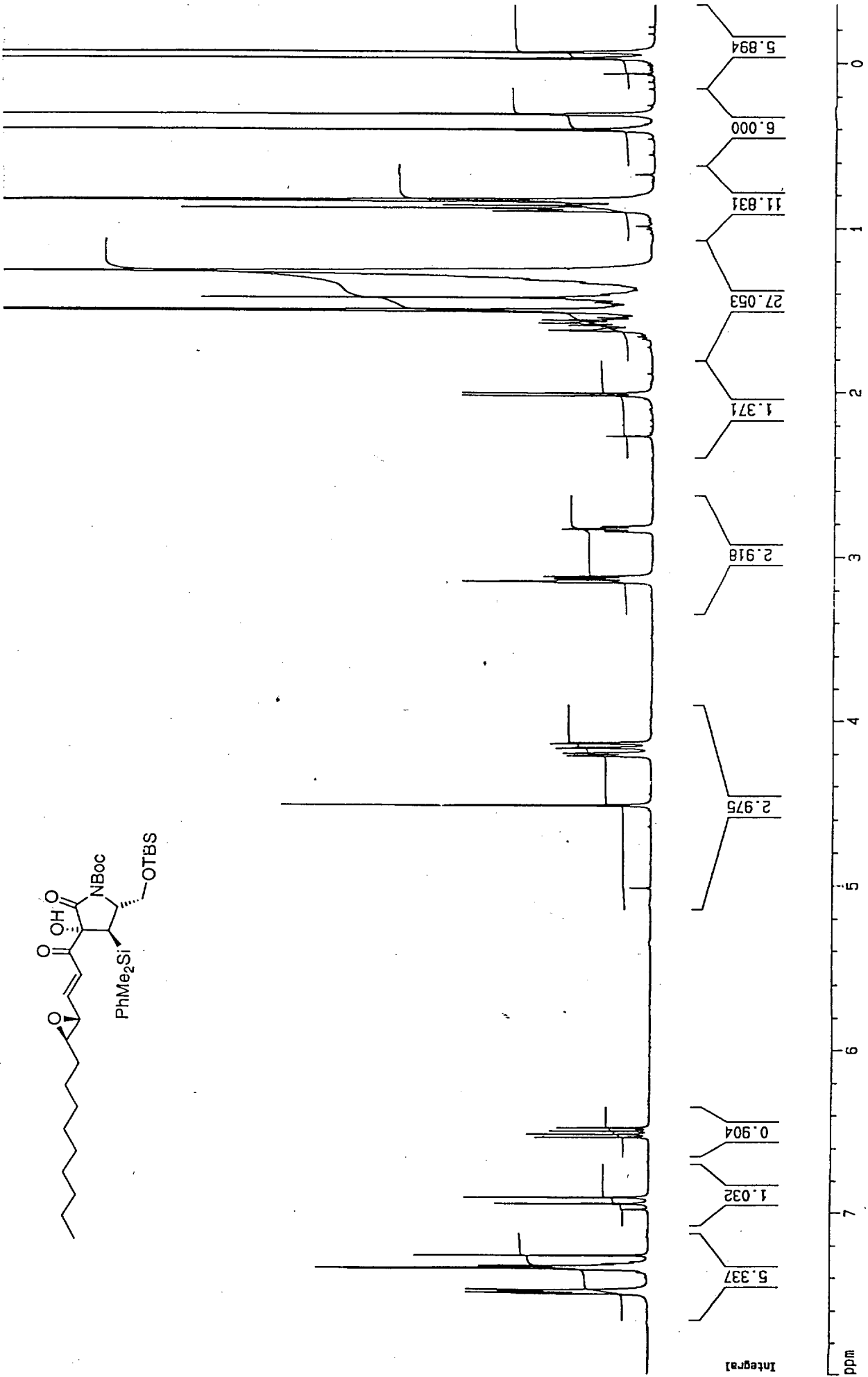
(+)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxo-tetradec-2-en-1-yl]-4-hydroxy-5-oxopyrrolidine-1-carboxylate (22)



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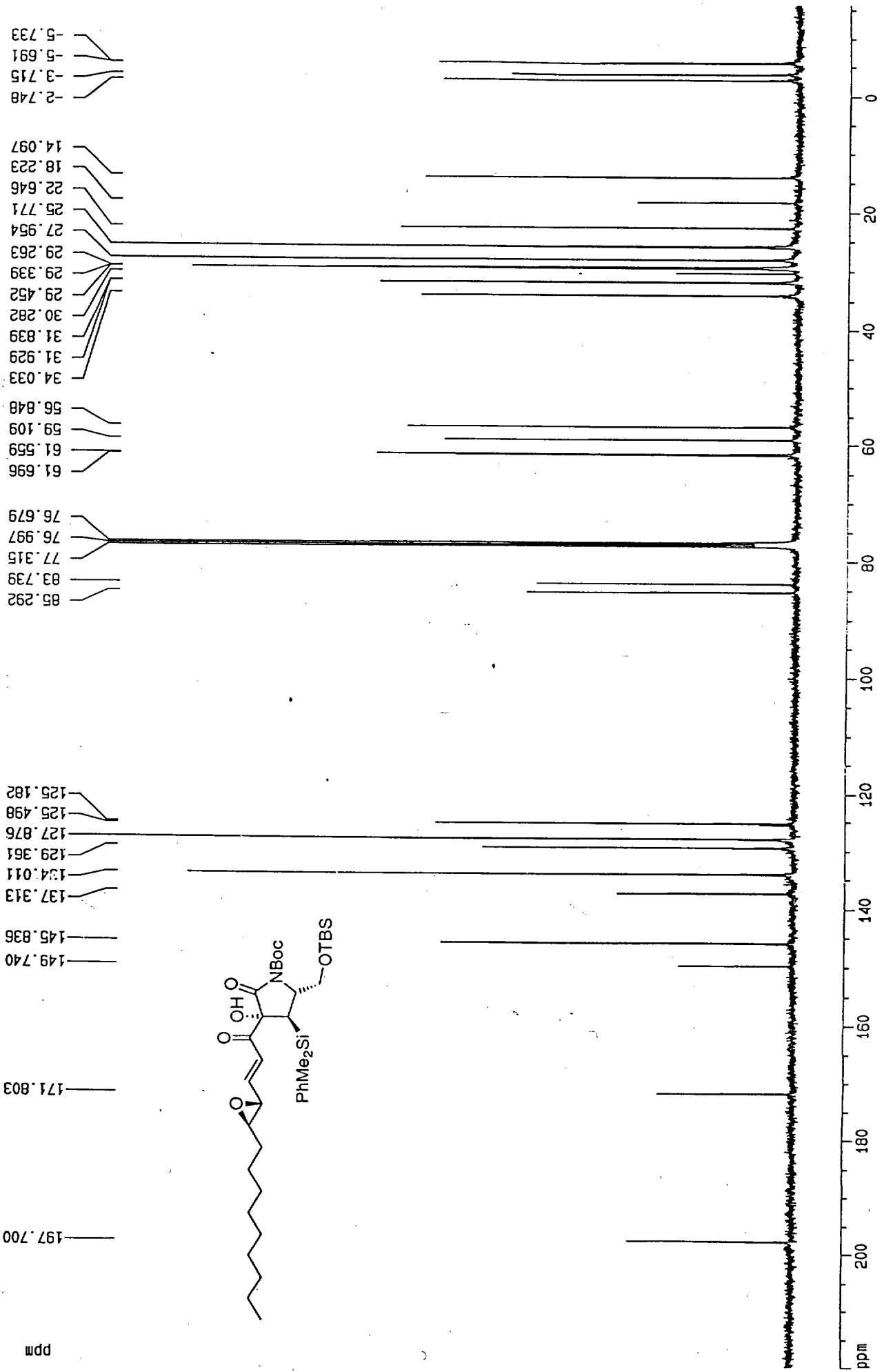
(+)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxo-tetradec-2-en-1-yl]-4-hydroxy-5-oxopyrrolidine-1-carboxylate (22)



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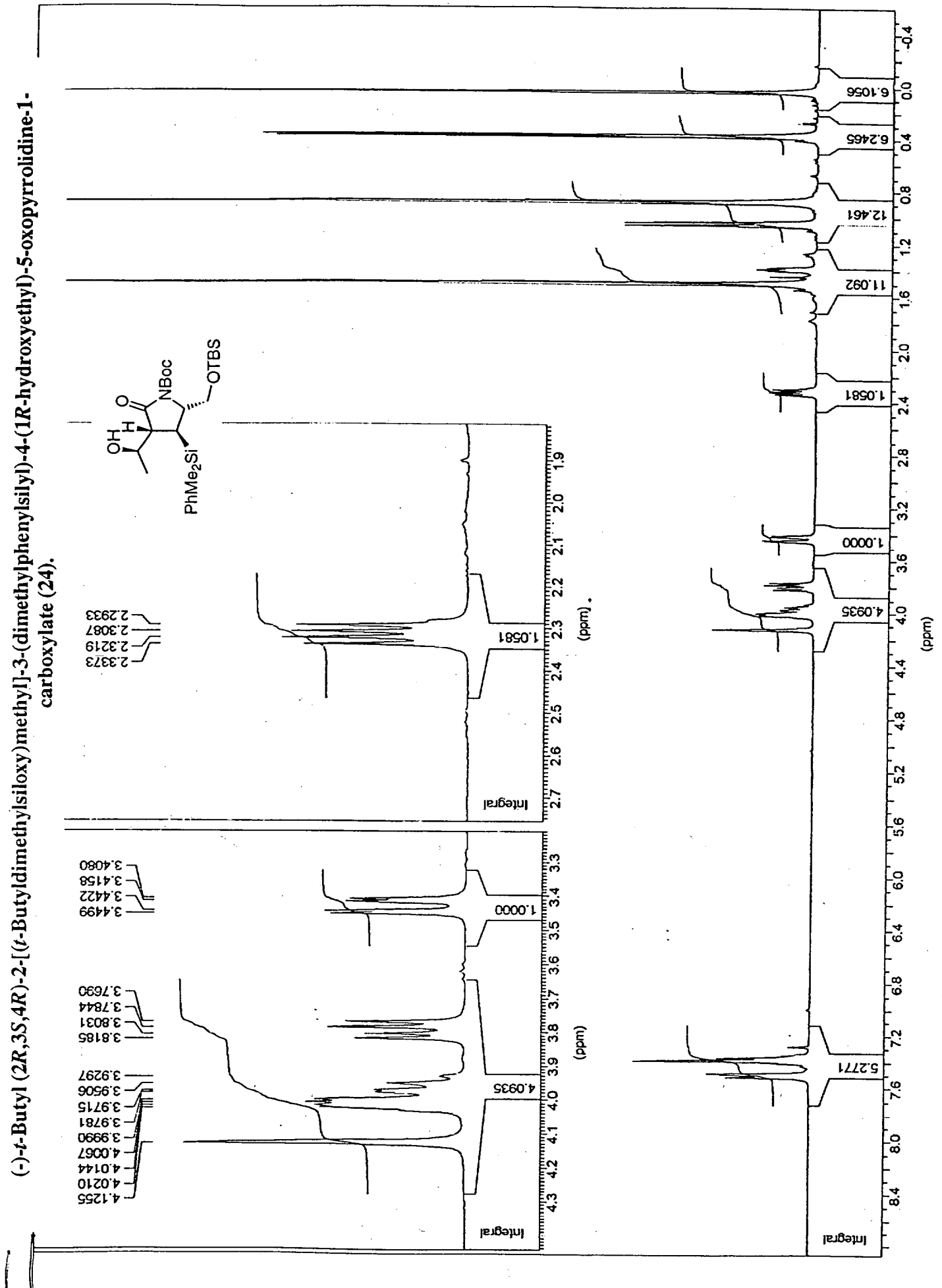
(-)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-(1*R*-hydroxyethyl)-5-oxopyrrolidine-1-carboxylate (24).



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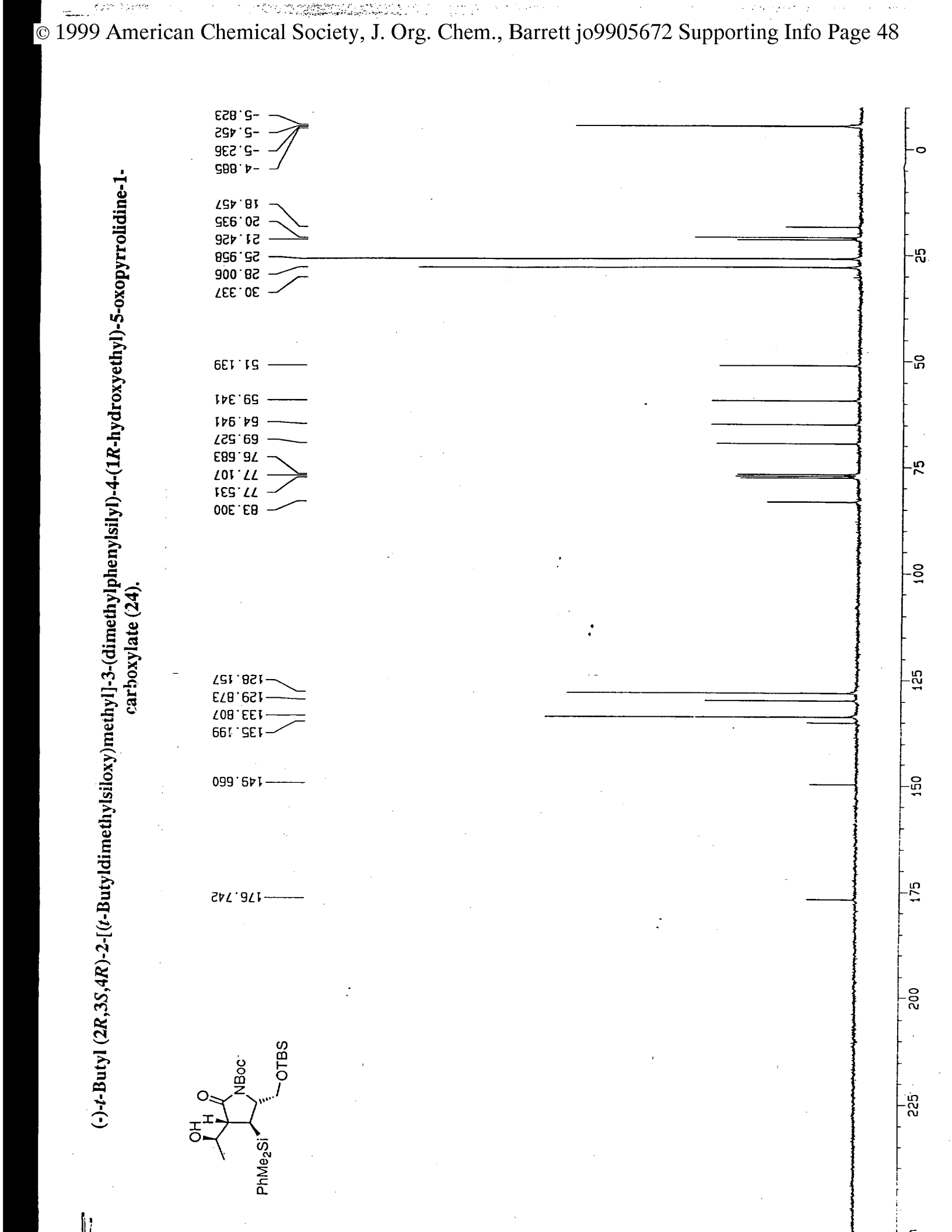
(-)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-(1*R*-hydroxyethyl)-5-oxopyrrolidine-1-carboxylate (24).



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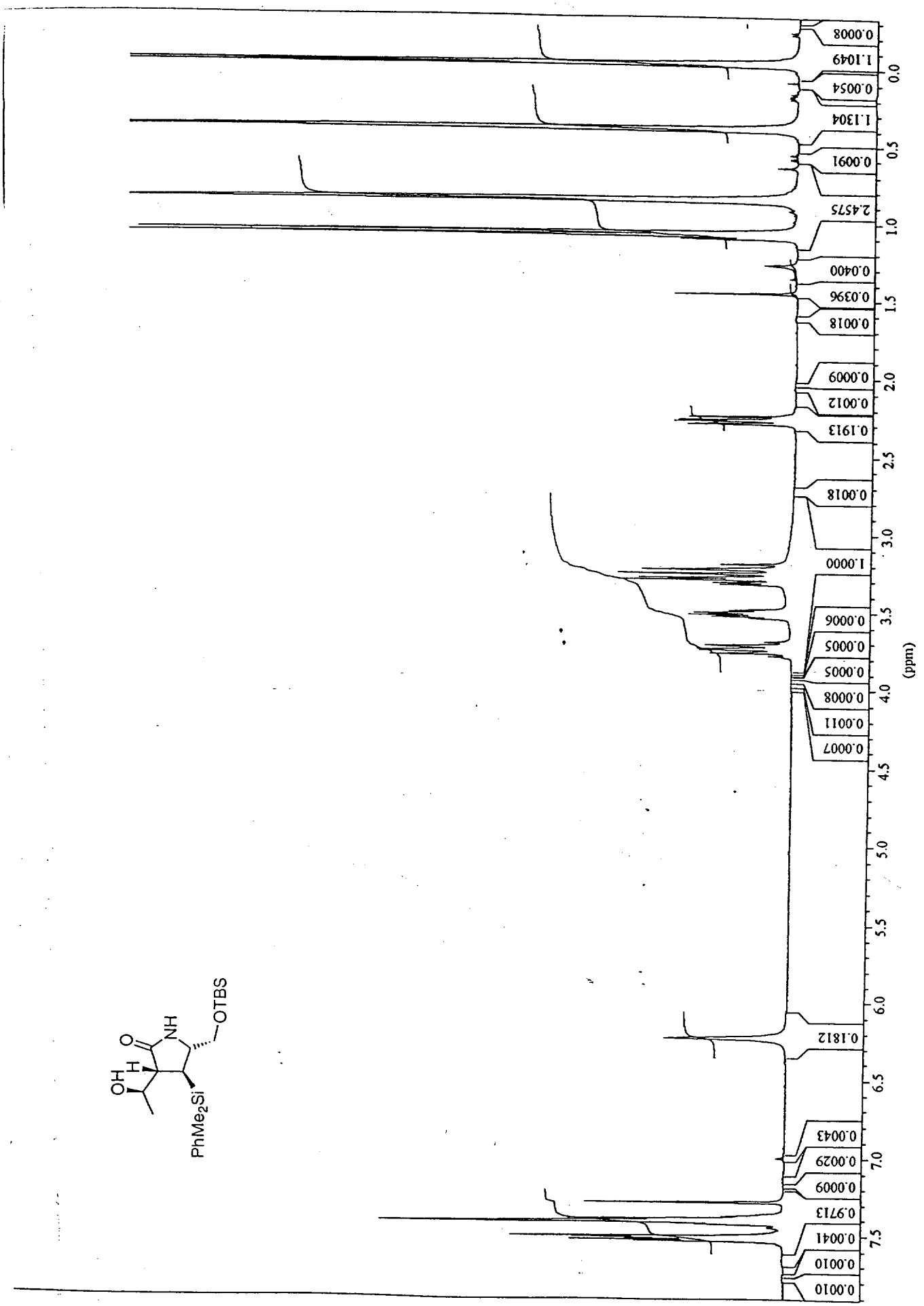
(+)-(2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-(1*R*-hydroxyethyl)-5-pyrrolidinone (25).



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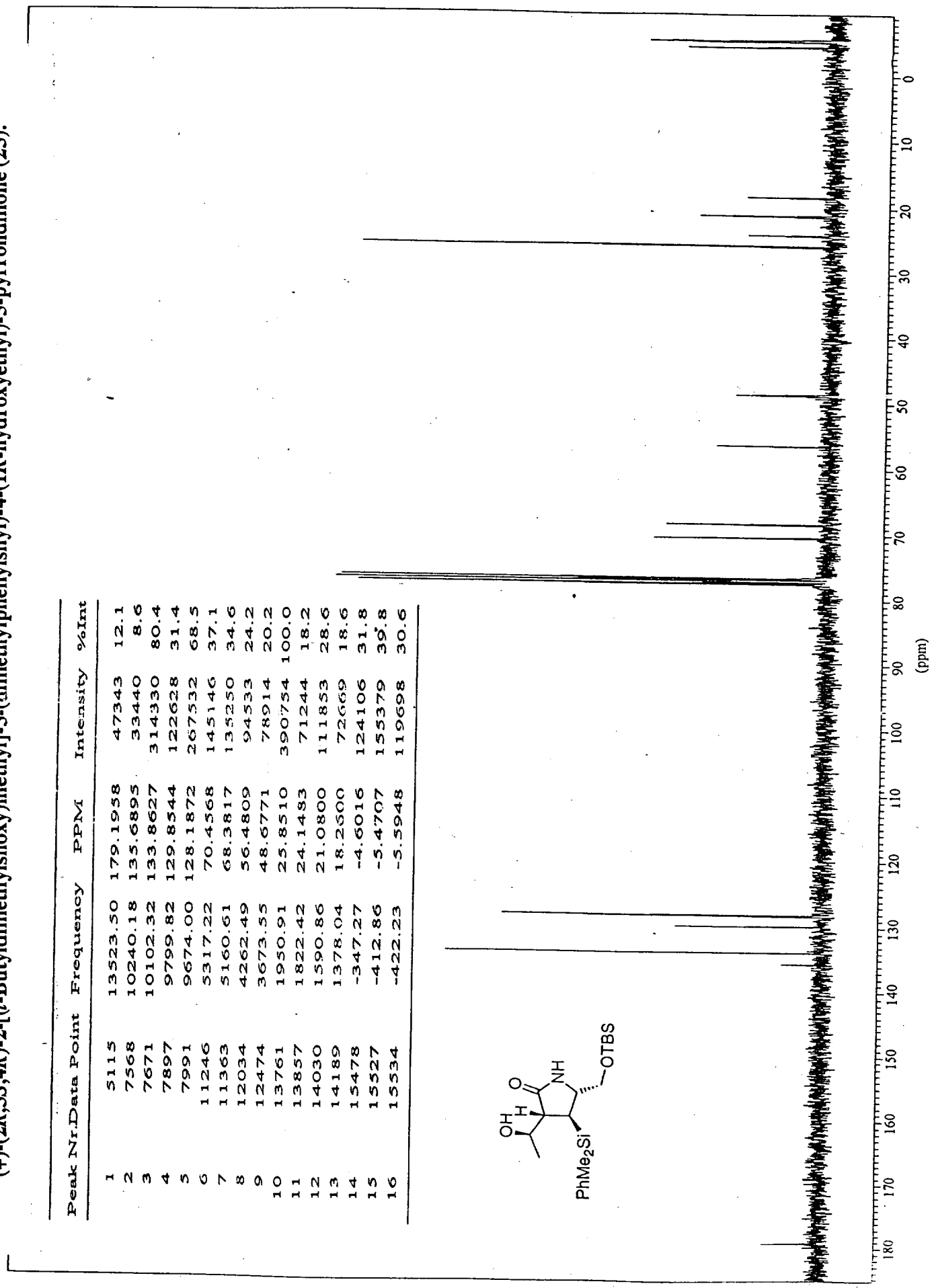
(+)-(2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-(1*R*-hydroxyethyl)-5-pyrrolidinone (25).

Peak Nr.	Data Point	Frequency	PPM	Intensity	%Int
1	5115	13523.50	179.1958	47343	12.1
2	7568	10240.18	135.6895	33440	8.6
3	7671	10102.32	133.8627	314330	80.4
4	7897	9799.82	129.8544	122628	31.4
5	7991	9674.00	128.1872	267532	68.5
6	11246	5317.22	70.4568	145146	37.1
7	11363	5160.61	68.3817	135250	34.6
8	12034	4262.49	56.4809	94533	24.2
9	12474	3673.55	48.6771	78914	20.2
10	13761	1950.91	25.8510	390754	100.0
11	13857	1822.42	24.1483	71244	18.2
12	14030	1590.86	21.0800	111853	28.6
13	14189	1378.04	18.2600	72669	18.6
14	15478	-347.27	-4.6016	124106	31.8
15	15527	-412.86	-5.4707	155379	39.8
16	15534	-422.23	-5.5948	119698	30.6



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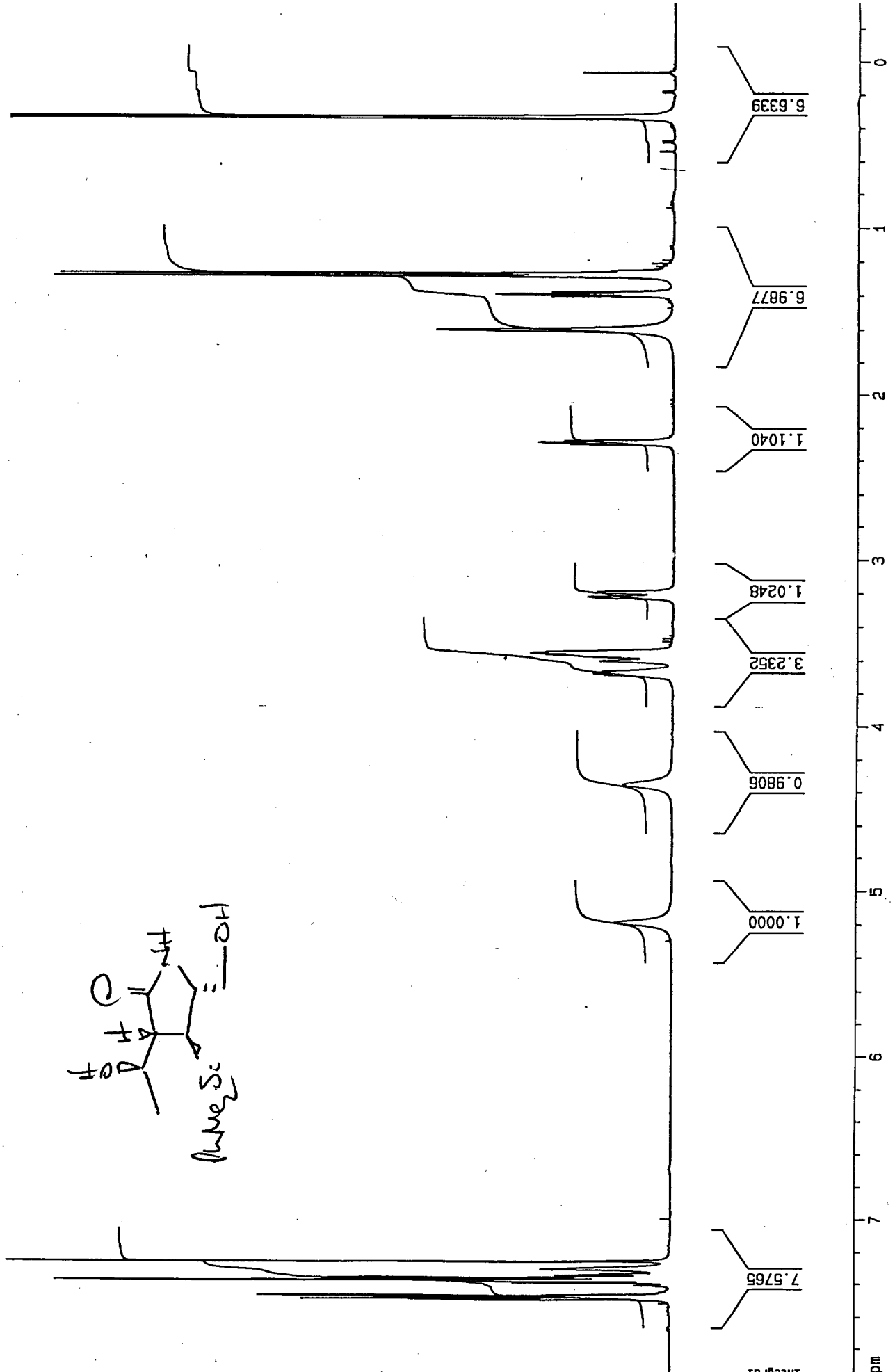
(+)-(2*R*,3*S*,4*R*)-3-(Dimethylphenylsilyl)-2-(hydroxymethyl)-4-(1*R*-hydroxyethyl)-5-pyrrolidinone (26).



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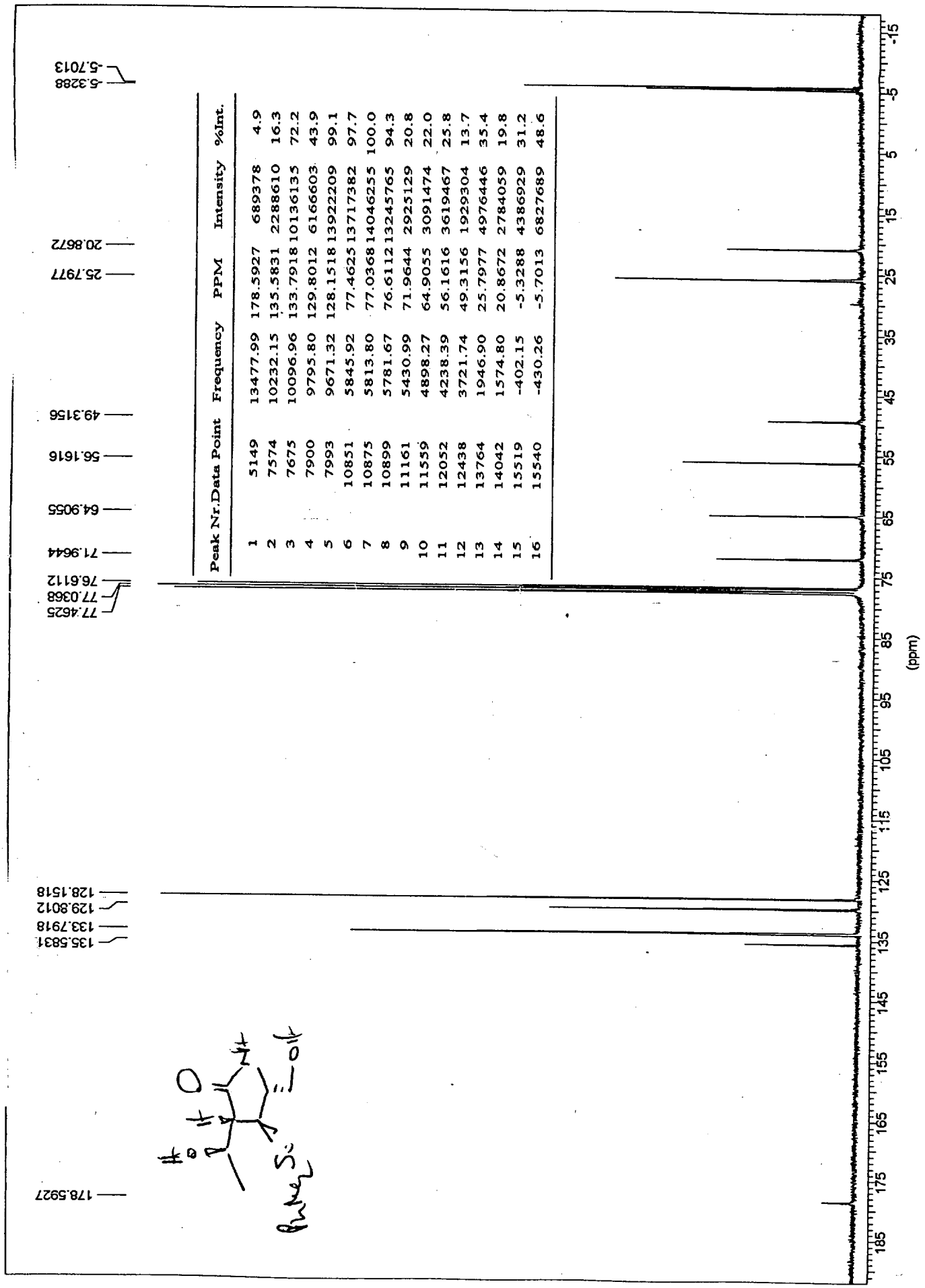
(+)-(2*R*,3*S*,4*R*)-3-(Dimethylphenylsilyl)-2-(hydroxymethyl)-4-(1*R*-hydroxyethyl)-5-pyrrolidinone (26).



Peak Nr.	Data Point	Frequency	PPM	Intensity	%Int.
1	5149	13477.99	178.5927	689378	4.9
2	7574	10232.15	135.5831	2288610	16.3
3	7675	10096.96	133.7918	10136135	72.2
4	7900	9795.80	129.8012	6166603	43.9
5	7993	9671.32	128.1518	13922209	99.1
6	10851	5845.92	77.4625	13717382	97.7
7	10875	5813.80	77.0368	14046255	100.0
8	10899	5781.67	76.6112	13245765	94.3
9	11161	5430.99	71.9644	2925129	20.8
10	11559	4898.27	64.9055	3091474	22.0
11	12052	4238.39	56.1616	3619467	25.8
12	12438	3721.74	49.3156	1929304	13.7
13	13764	1946.90	25.7977	4976446	35.4
14	14042	1574.80	20.8672	2784059	19.8
15	15519	-402.15	-5.3288	4386929	31.2
16	15540	-430.26	-5.7013	6827689	48.6

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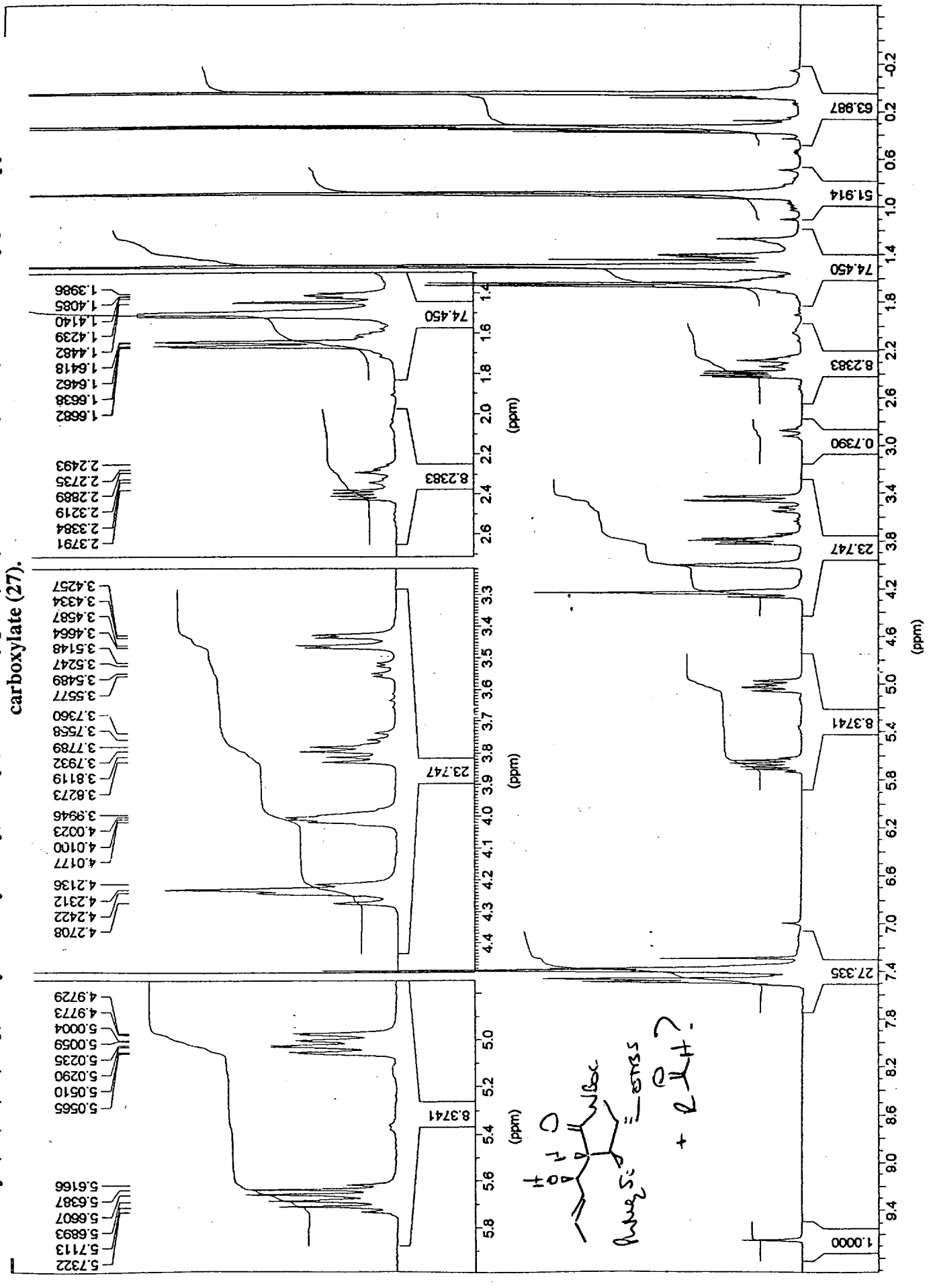
t-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-1*R*-hydroxybut-2-en-1-yl]-5-oxopyrrolidine-1-carboxylate (27).



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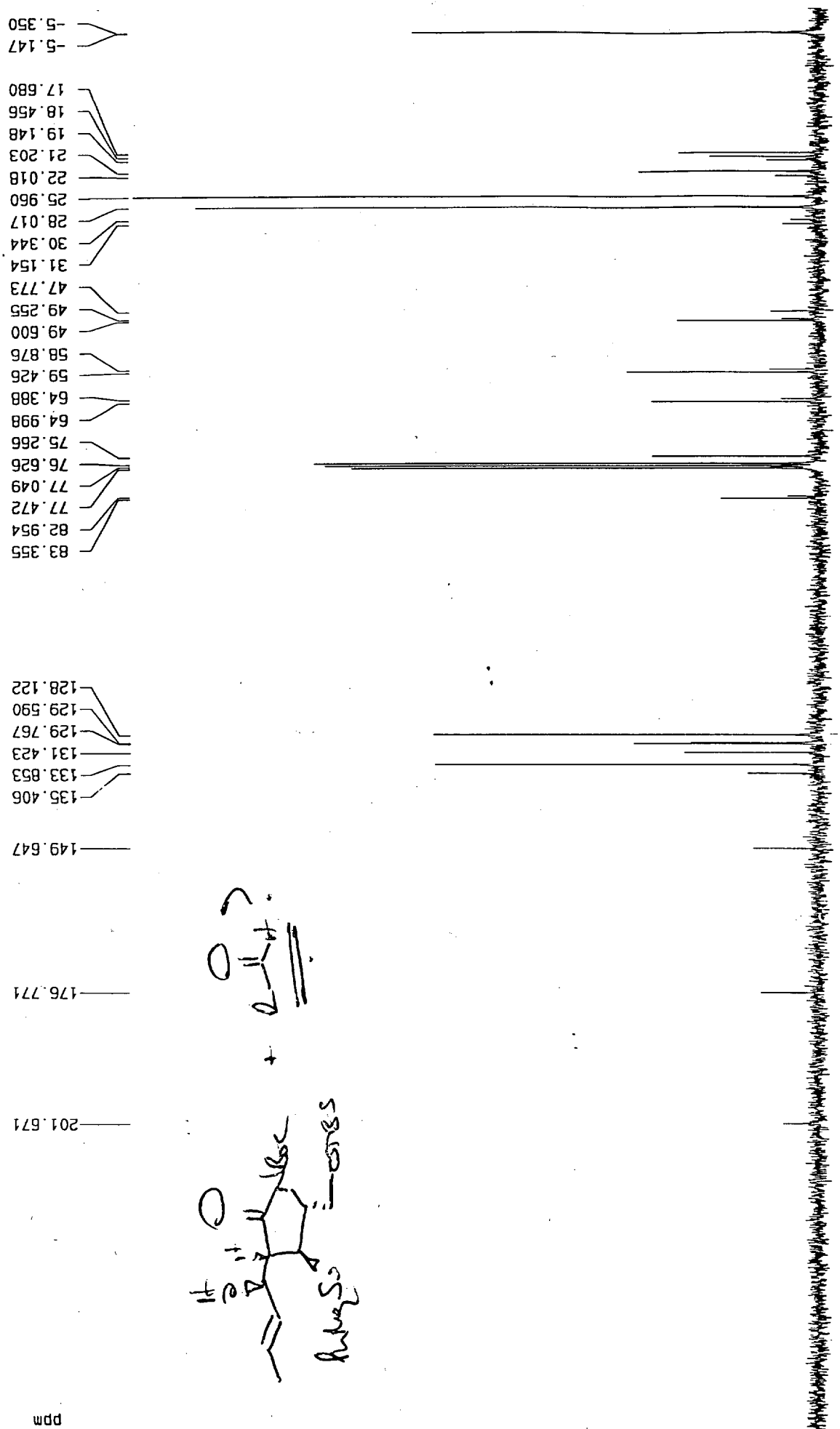
t-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-1*R*-hydroxybut-2-en-1-yl]-5-oxopyrrolidine-1-carboxylate (27).



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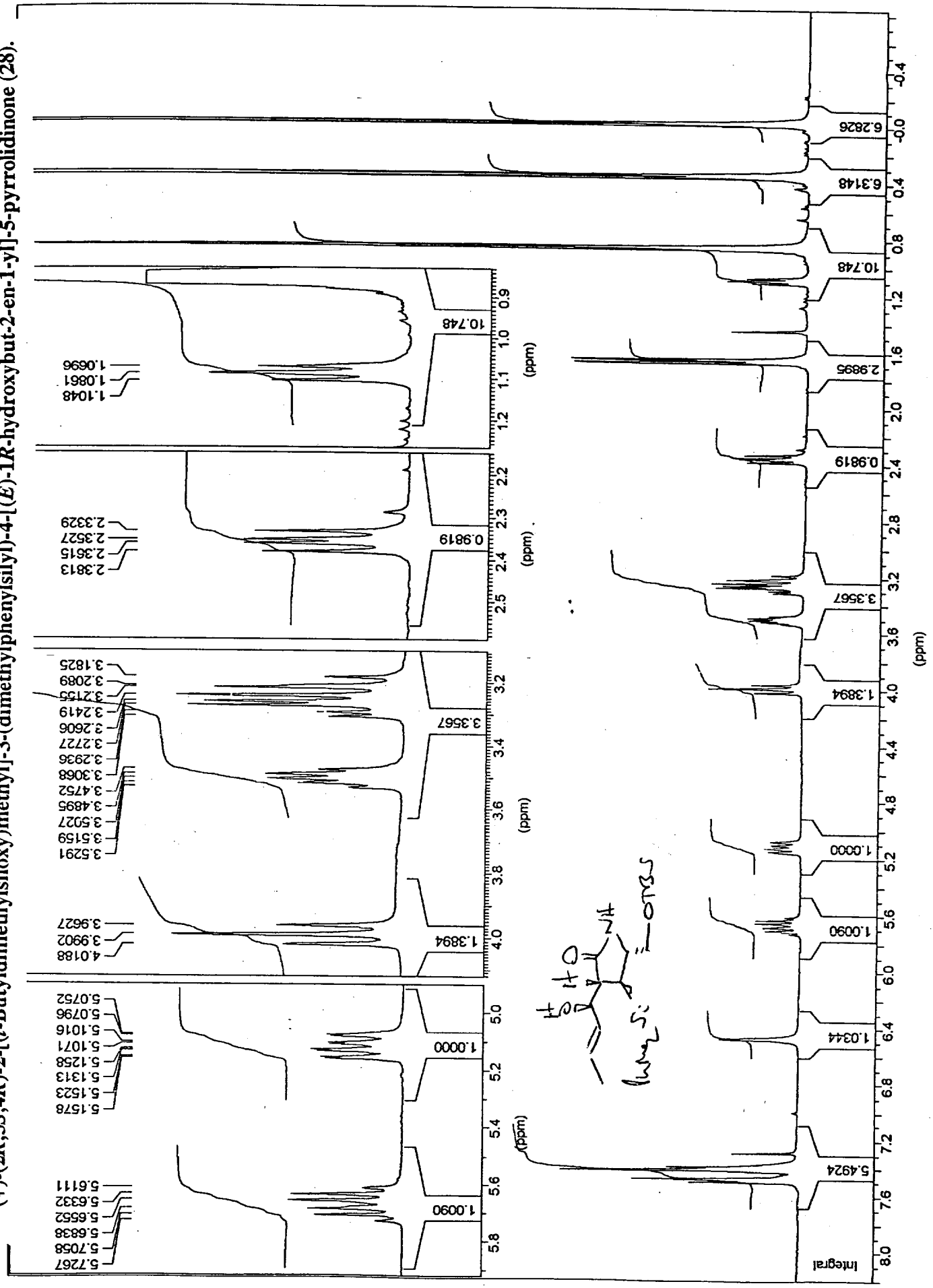
(+)-(2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-1*R*-hydroxybut-2-en-1-yl]-5-pyrrolidinone (28).



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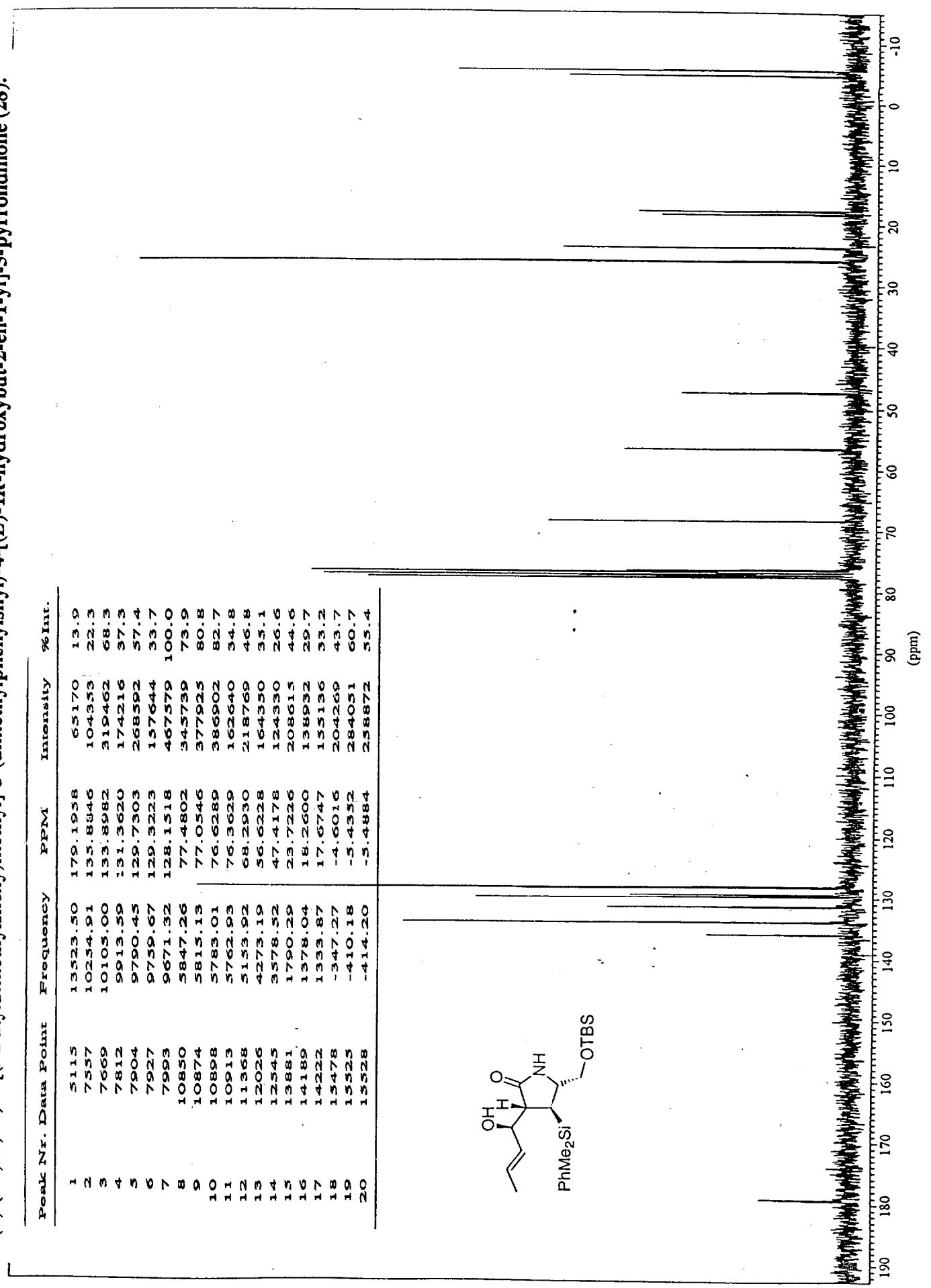
(+)-(2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(dimethylphenylsilyl)-4-[(*E*)-1*R*-hydroxybut-2-en-1-yl]-5-pyrrolidinone (28).

Peak Nr.	Data Point	Frequency	PPM	Intensity	%Int.
1	5115	13523.50	179.1958	65170	13.9
2	7557	10234.91	135.8346	104353	22.3
3	7669	10105.00	133.8982	319462	68.3
4	7812	9913.59	131.3620	174216	37.3
5	7904	9790.45	129.7303	268392	57.4
6	7927	9759.67	129.3223	157644	33.7
7	7993	9671.32	128.1518	467579	100.0
8	10850	5847.26	77.4802	345739	73.9
9	10874	5815.13	77.0546	377925	80.8
10	10898	5783.01	76.6289	386902	82.7
11	10913	5762.93	76.3629	162640	34.8
12	11368	5153.92	68.2930	218769	46.8
13	12026	4273.19	56.6228	164330	35.1
14	12545	3578.52	47.4178	124330	26.6
15	13881	1790.29	23.7226	208615	44.6
16	14189	1378.04	18.2600	138932	29.7
17	14222	1333.87	17.6747	155136	33.2
18	15478	-347.27	-4.6016	204269	43.7
19	15525	-410.18	-5.4352	284051	60.7
20	15528	-414.20	-5.4884	258872	55.4



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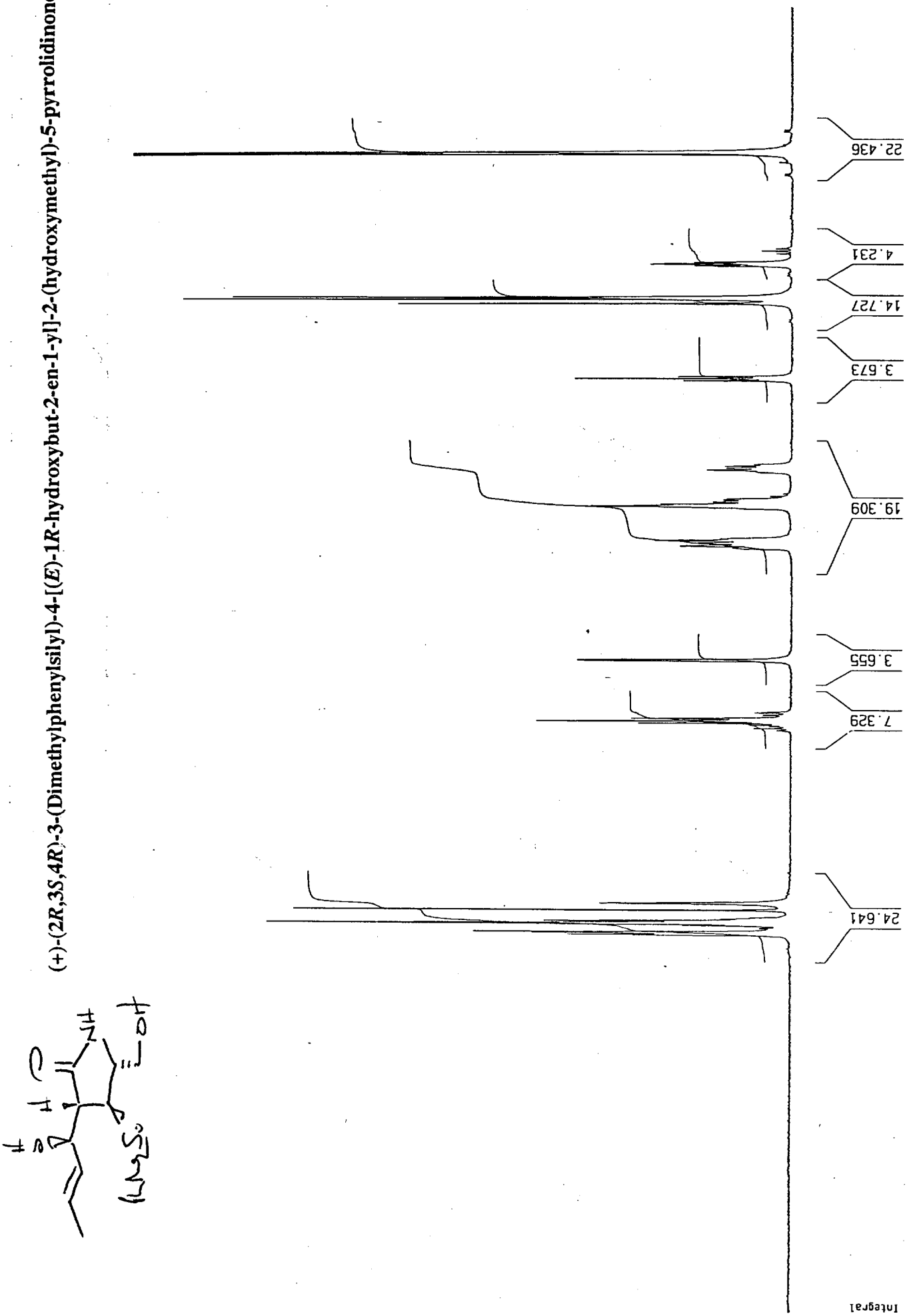
(+)-(2*R*,3*S*,4*R*)-3-(Dimethylphenylsilyl)-4-[(*E*)-1*R*-hydroxybut-2-en-1-yl]-2-(hydroxymethyl)-5-pyrrolidinone (29



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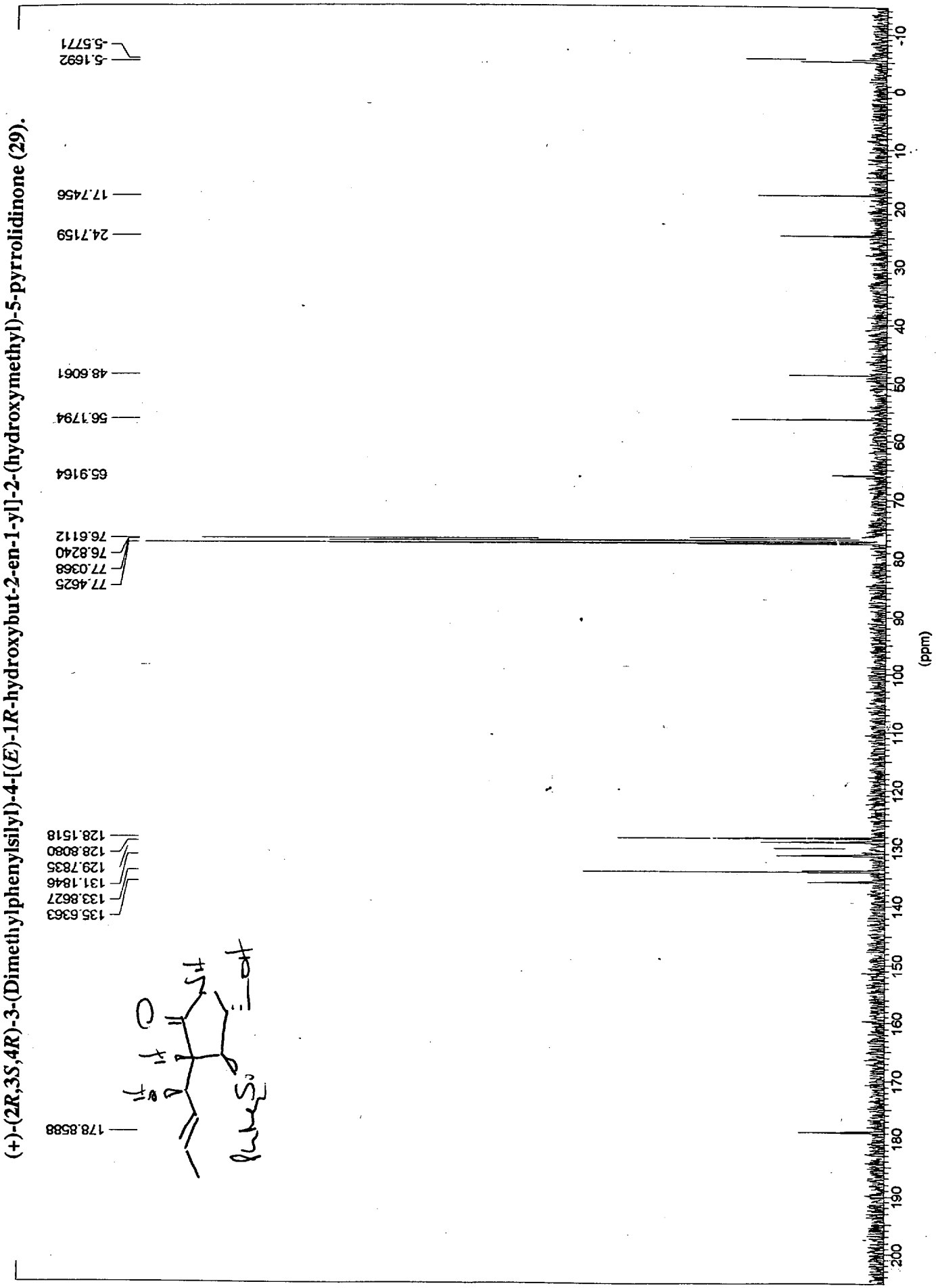
(+)-(2*R*,3*S*,4*R*)-3-(Dimethylphenylsilyl)-4-[(*E*)-1*R*-hydroxybut-2-en-1-yl]-2-(hydroxymethyl)-5-pyrrolidinone (29).



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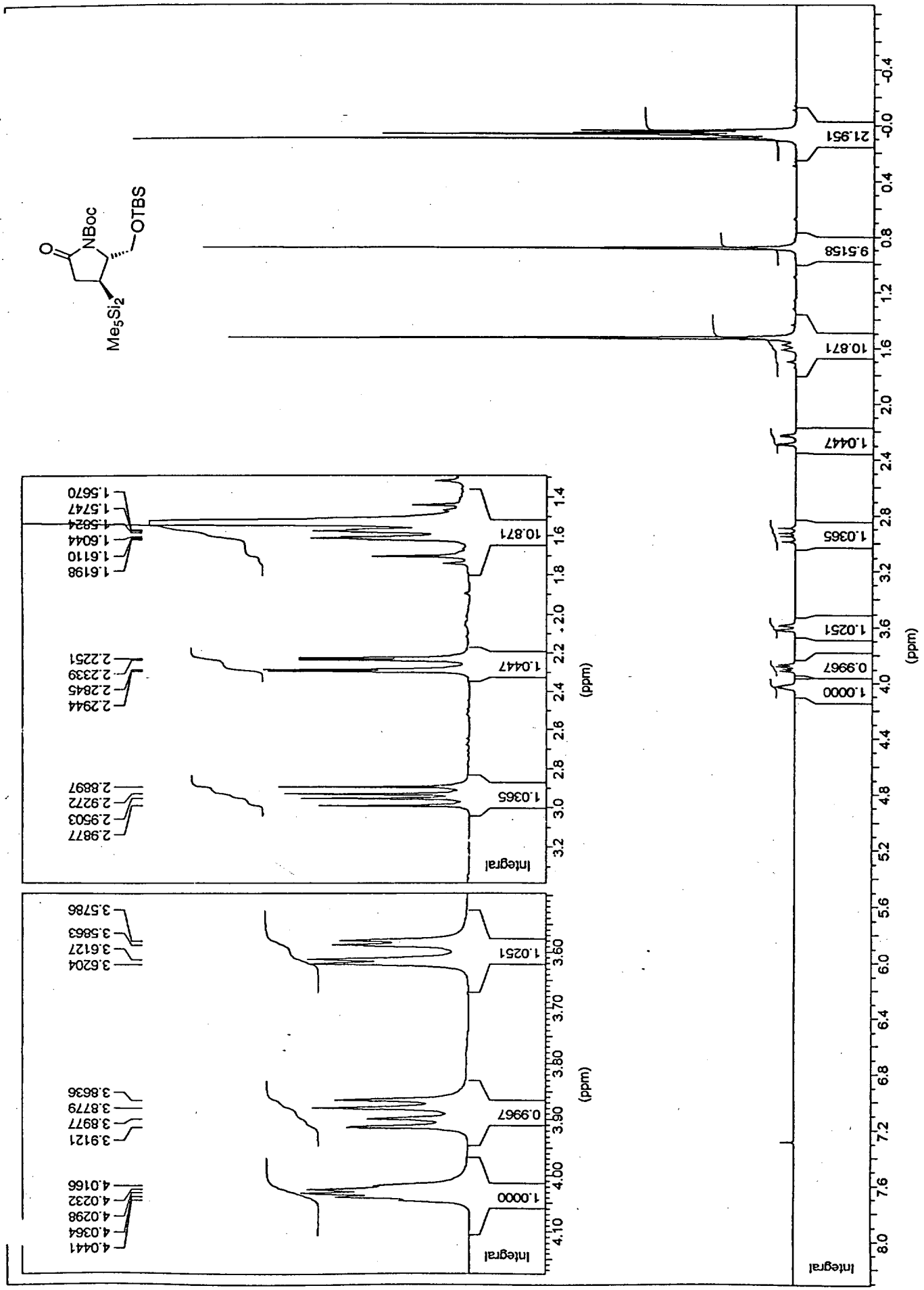
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(1,1,2,2,2-pentamethyldisilyl)-5-oxopyrrolidine-1-carboxylate (30).



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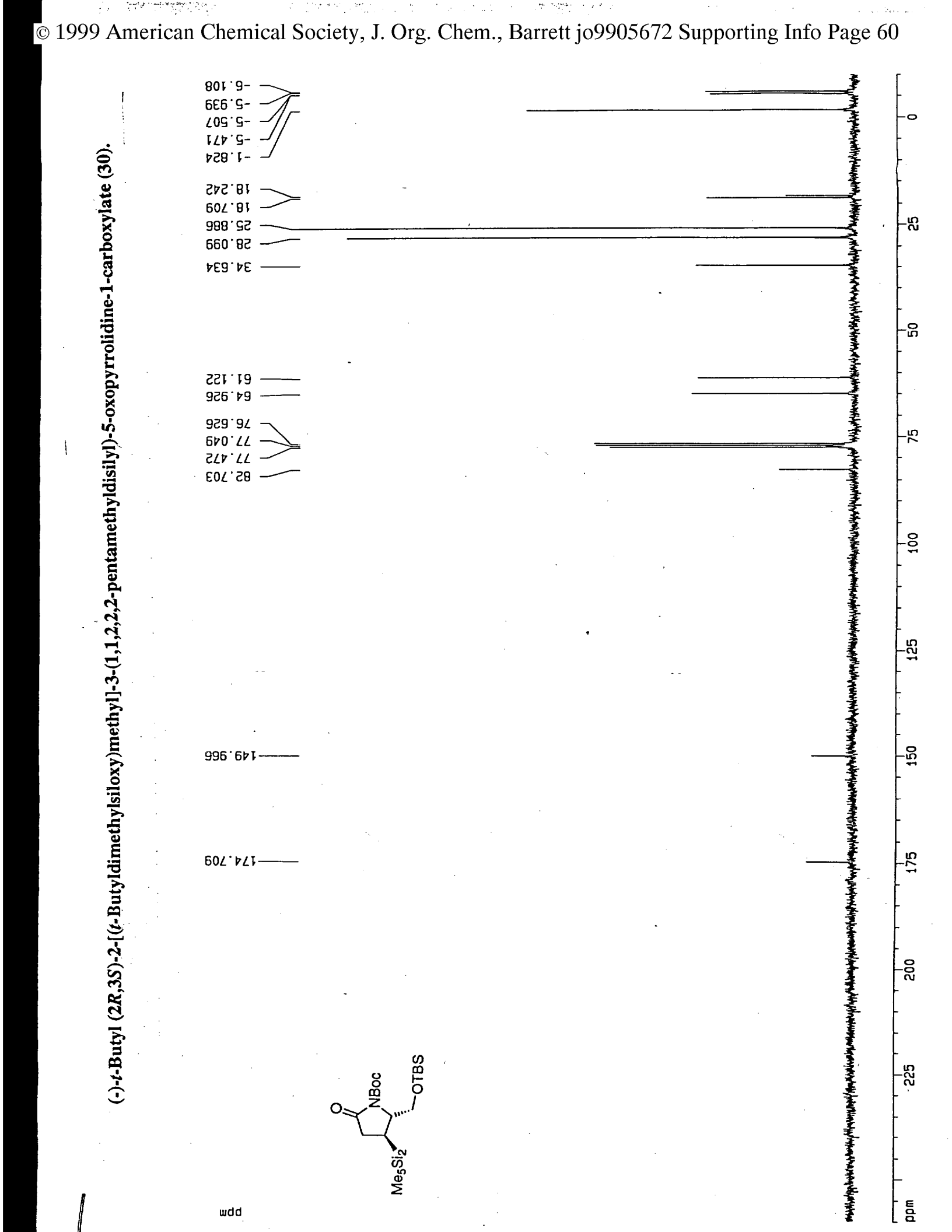
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(1,1,2,2,2-pentamethyldisilyl)-5-oxopyrrolidine-1-carboxylate (30).



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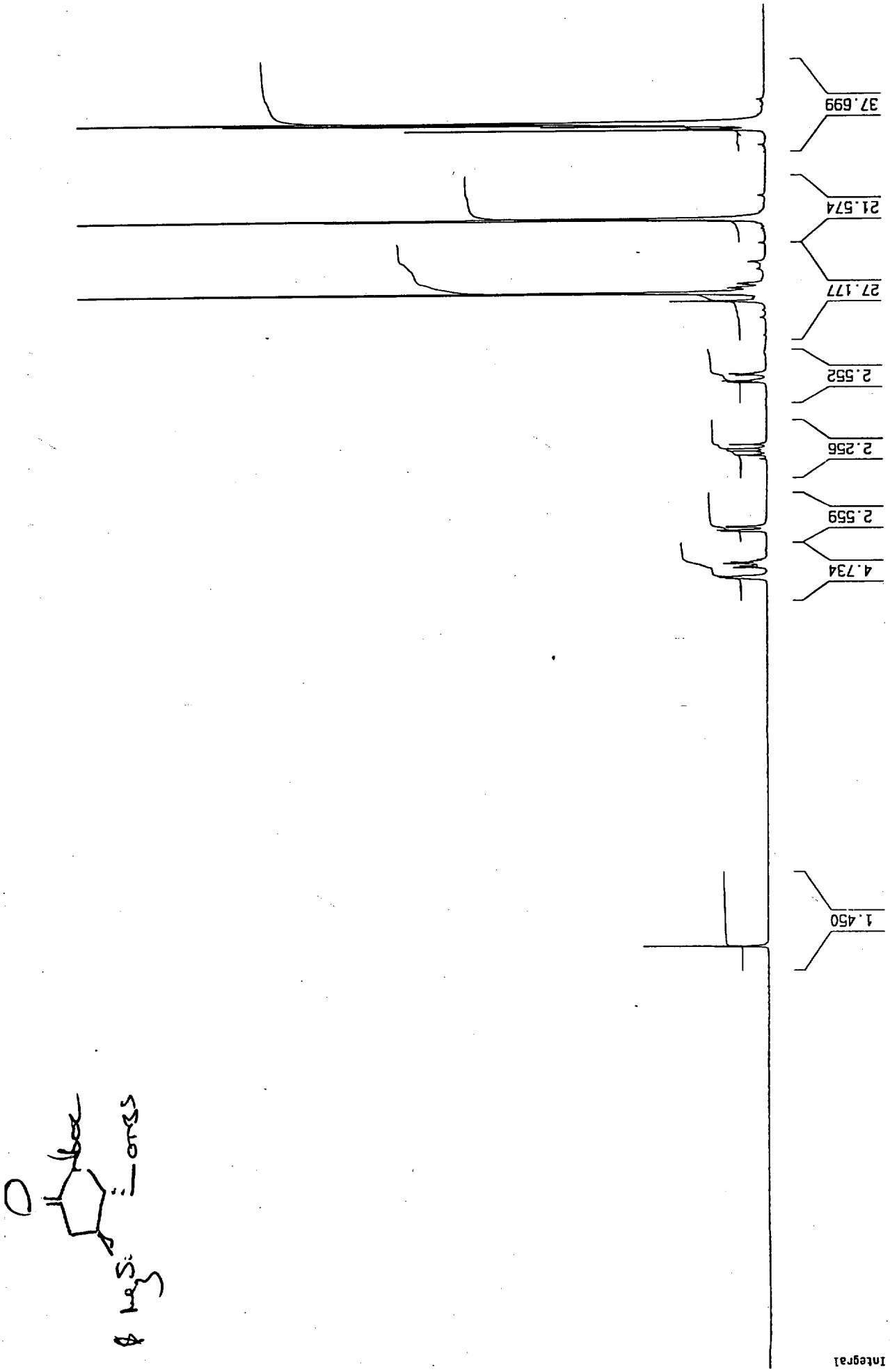
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(trimethylsilyl)-5-oxopyrrolidine-1-carboxylate (31).



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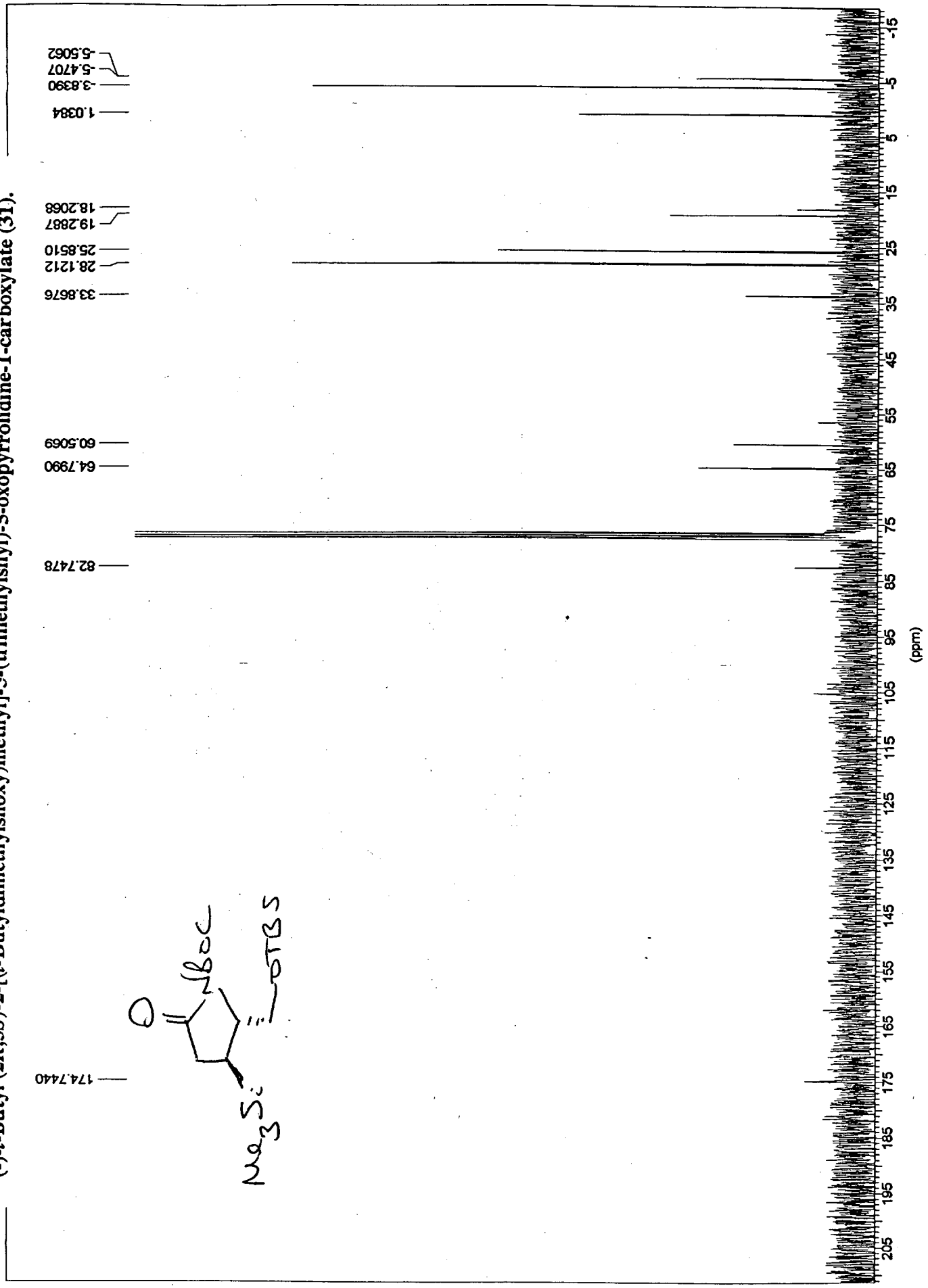
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(trimethylsilyl)-5-oxopyrrolidine-1-carboxylate (31).



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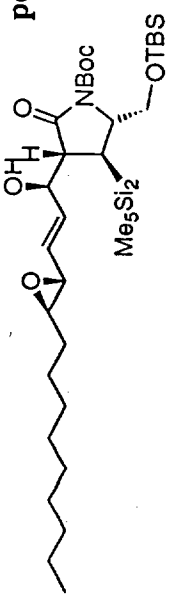
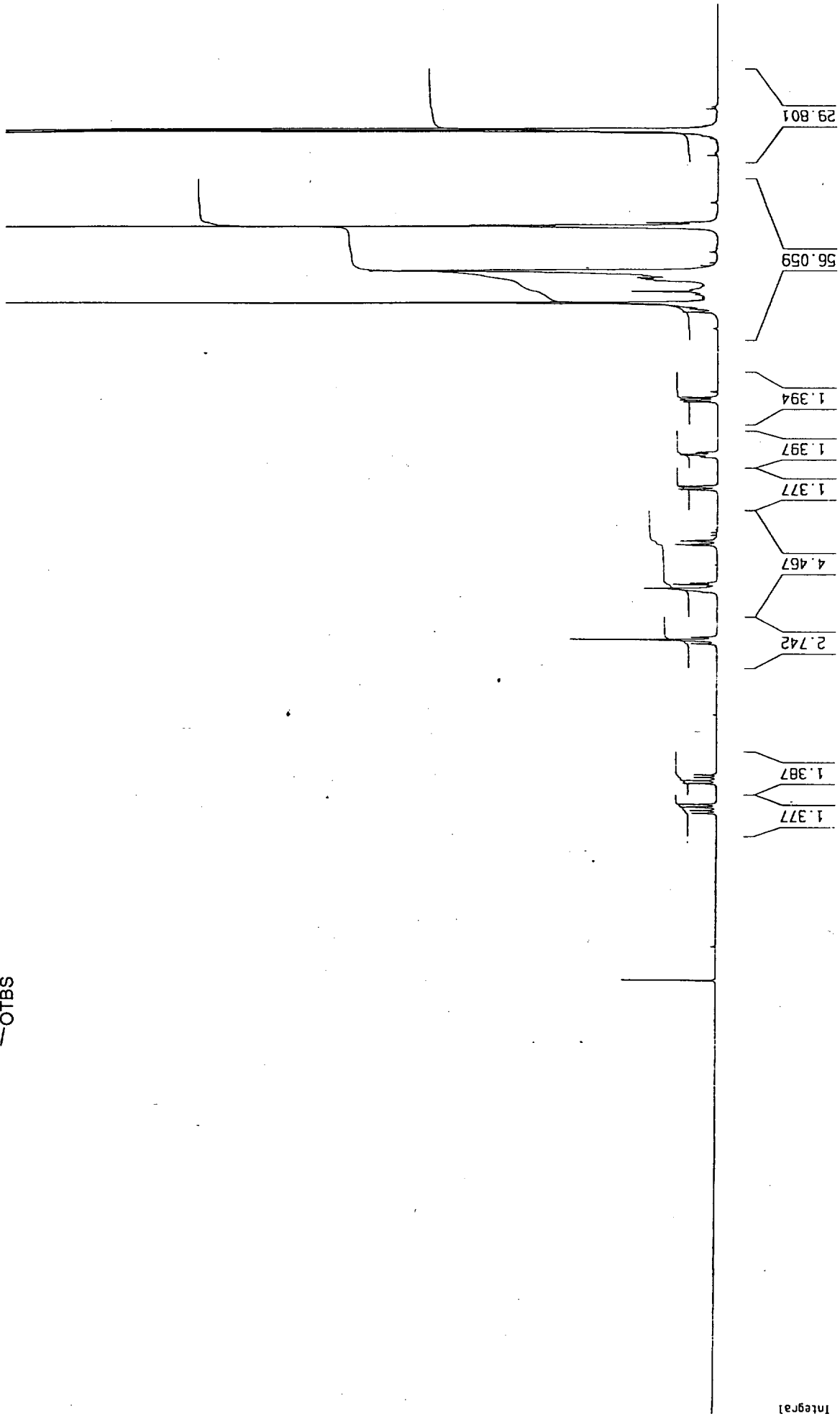
(+)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxytetradec-1*R*-hydroxy-2-en-1-yl]-3-(1,1,2,2,2-pentamethyldisilyl)-5-oxopyrrolidine-1-carboxylate (33).





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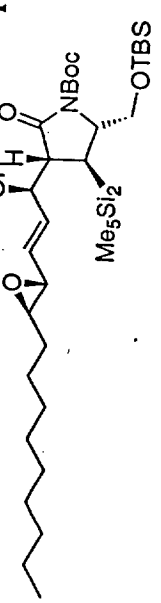
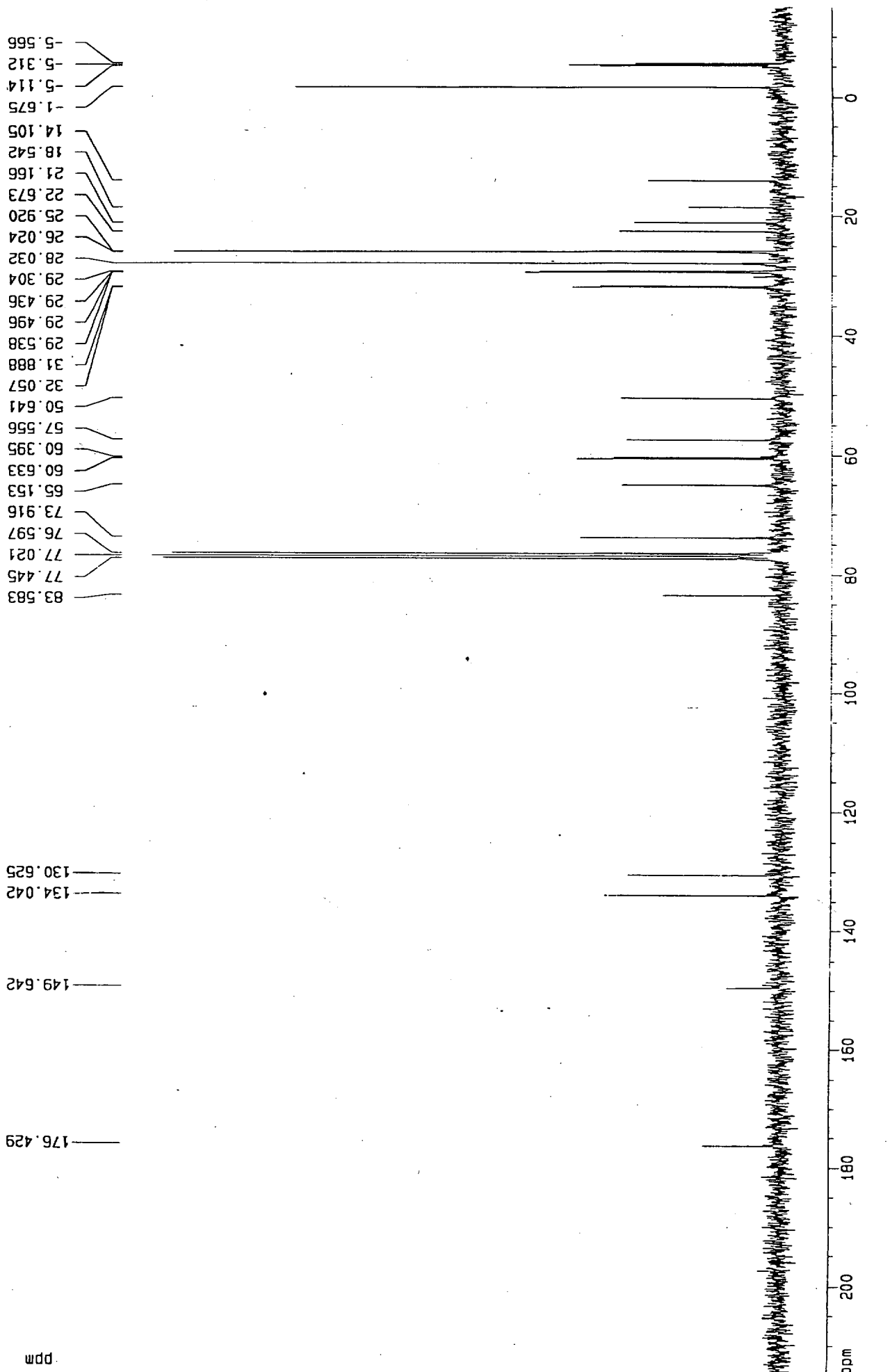
(+)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*K*,5*K*)-epoxytetradec-1*K*-hydroxy-2-en-1-yl]-3-(1,1,2,2-pentamethyldisilyl)-5-oxopyrrolidine-1-carboxylate (33).





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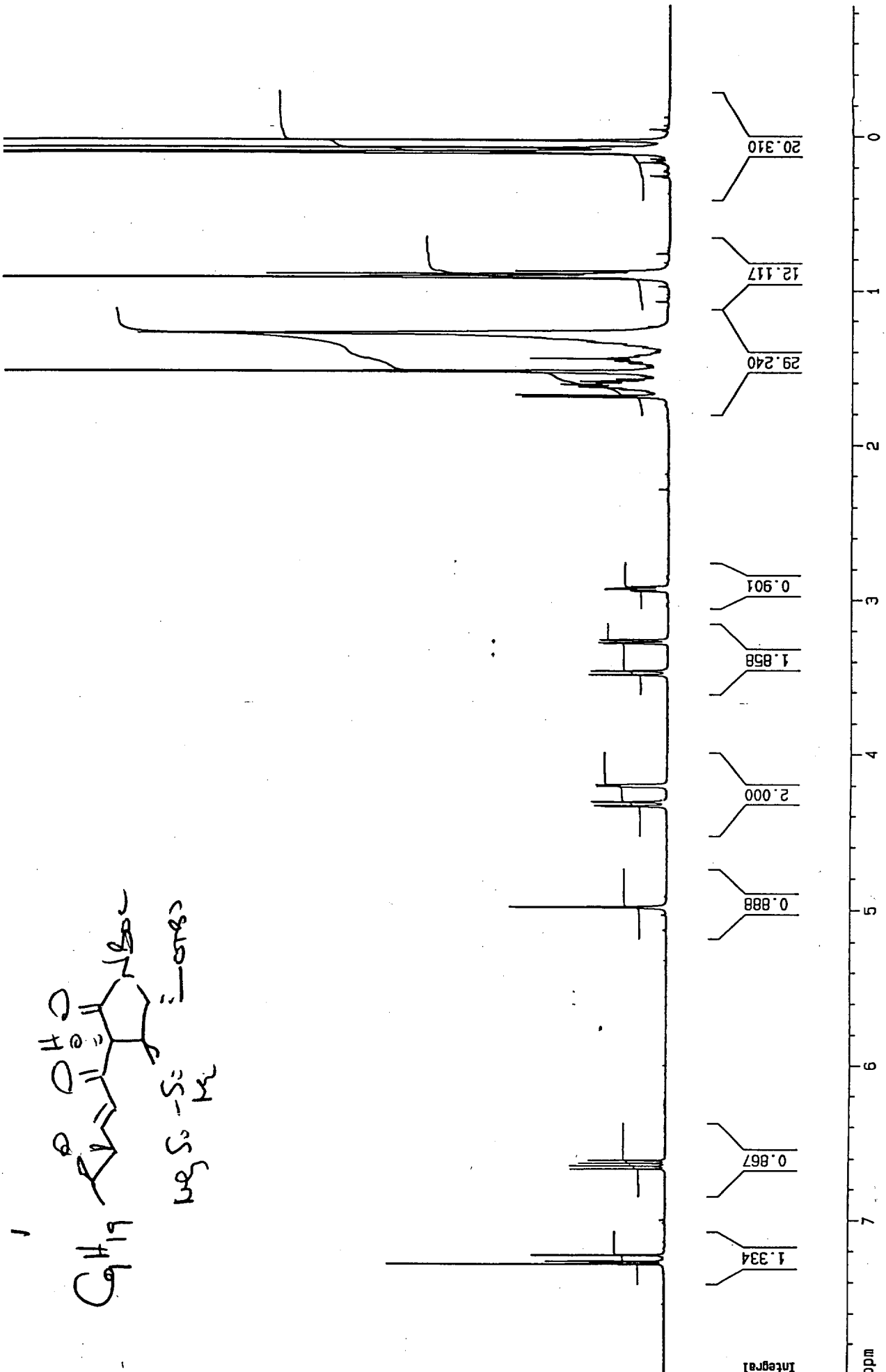
(+)-*t*-Butyl-(2*R*,3*R*,4*R*)-2-[(*t*-butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxotetradec-2-en-1-yl]-4-hydroxy-3-(1,1,2,2,2-pentamethyldisilyl)-5-oxopyrrolidine-1-carboxylate (34).



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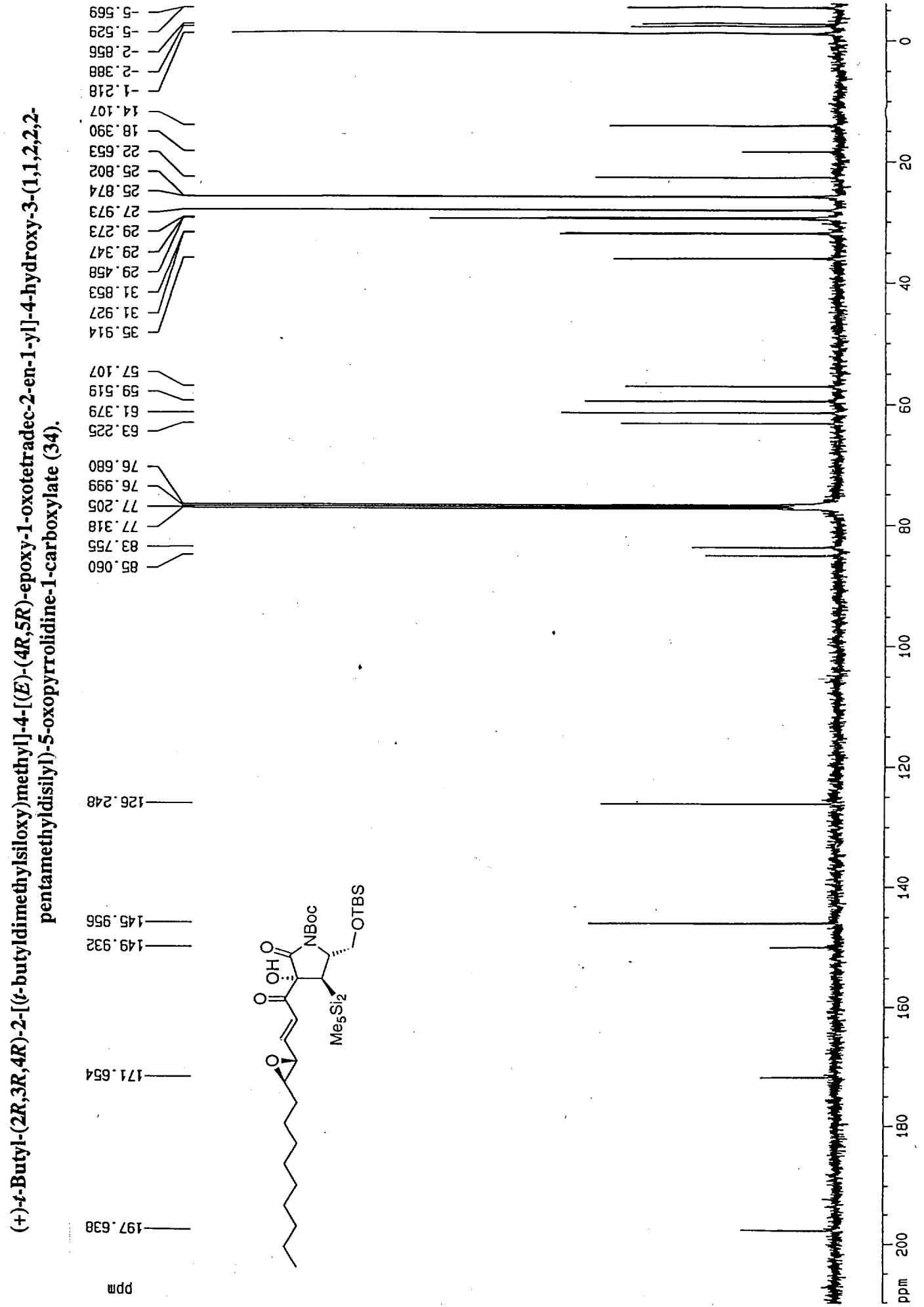
(+)-*t*-Butyl-(2*R*,3*R*,4*R*)-2-[(*t*-butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxotetradec-2-en-1-yl]-4-hydroxy-3-(1,1,2,2,2-pentamethyldisilyl)-5-oxopyrrolidine-1-carboxylate (34).



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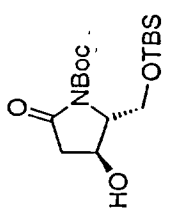
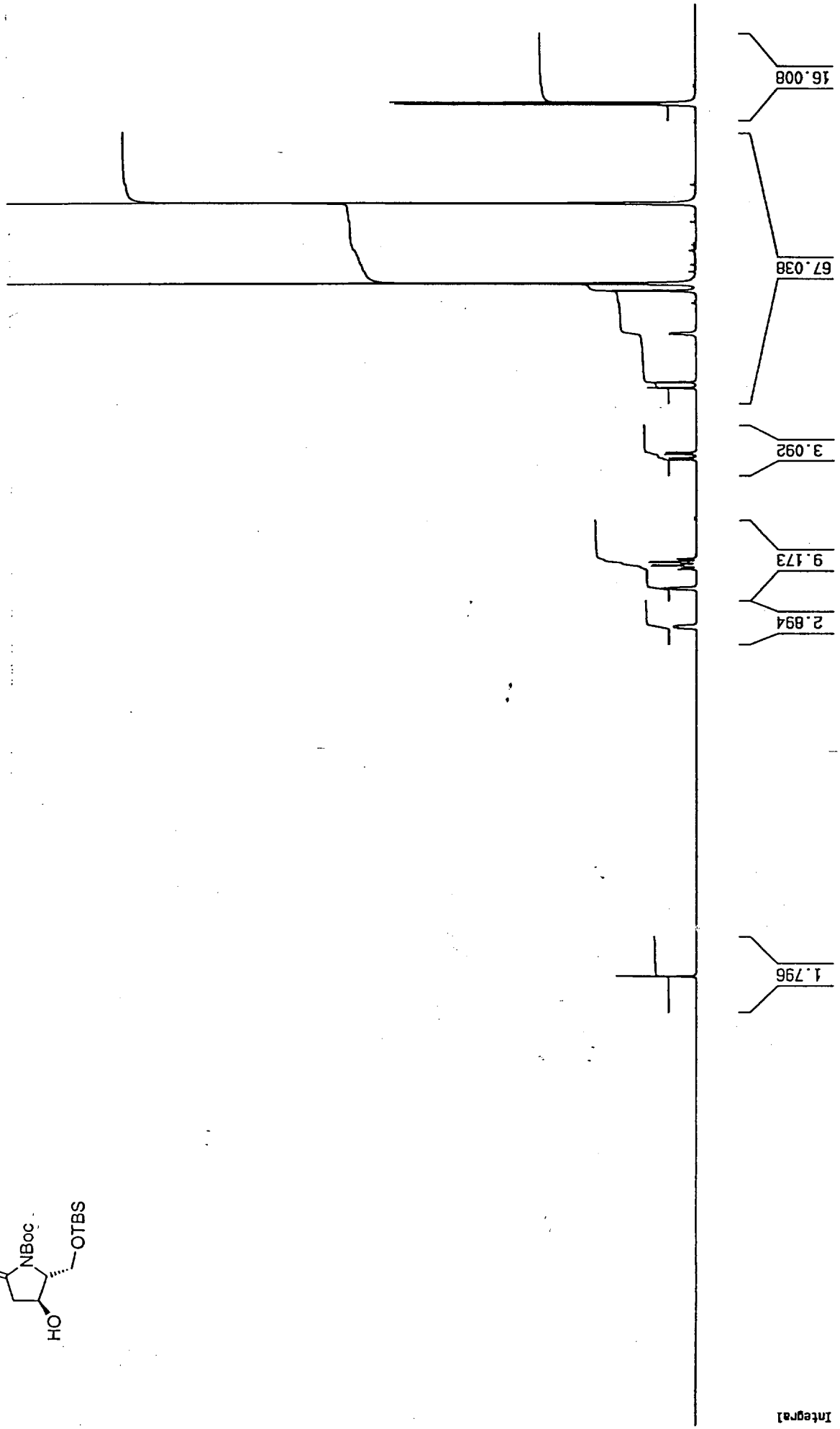
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-hydroxy-5-oxopyrrolidine-1-carboxylate (35).





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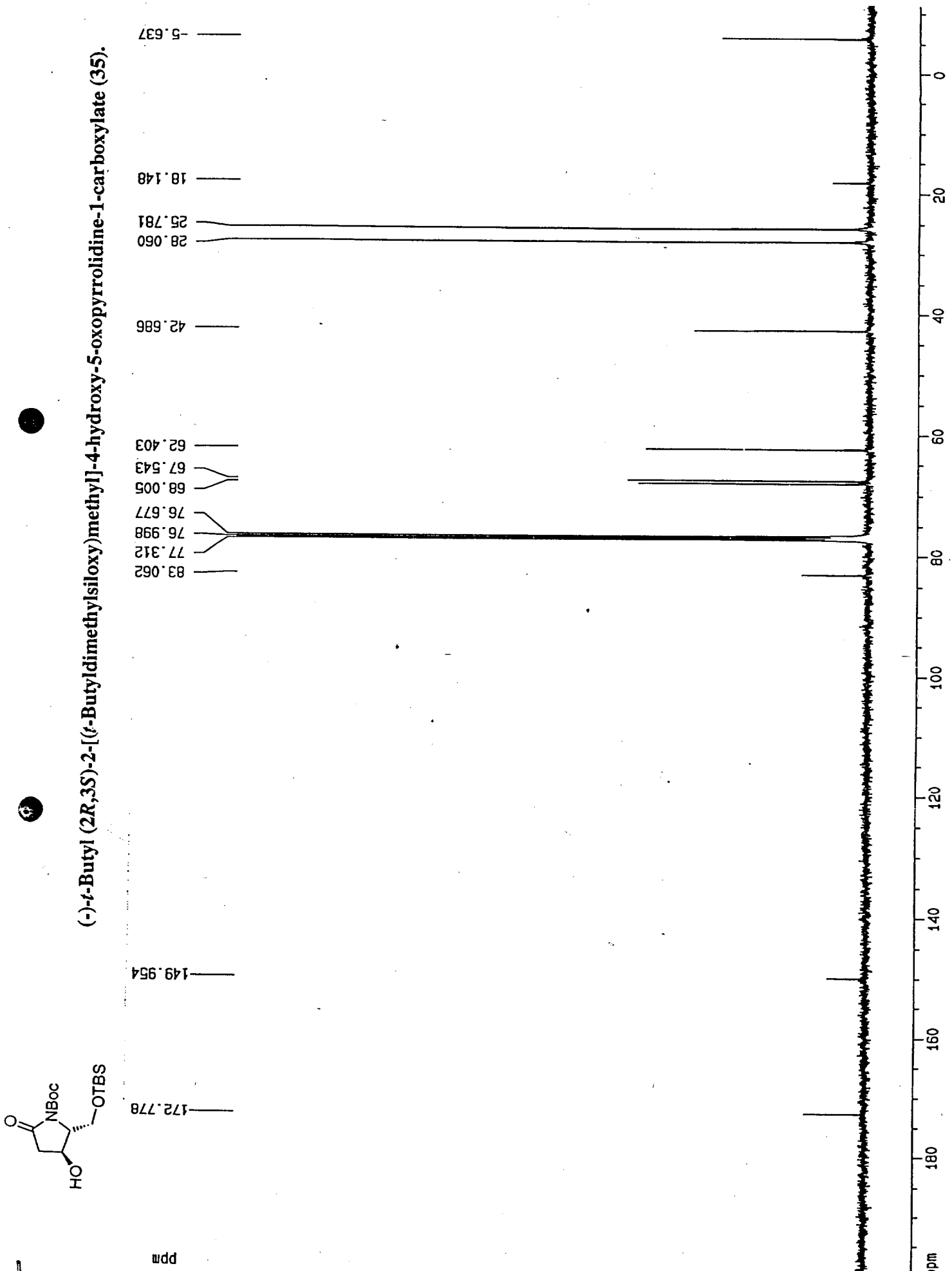
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-hydroxy-5-oxopyrrolidine-1-carboxylate (35).



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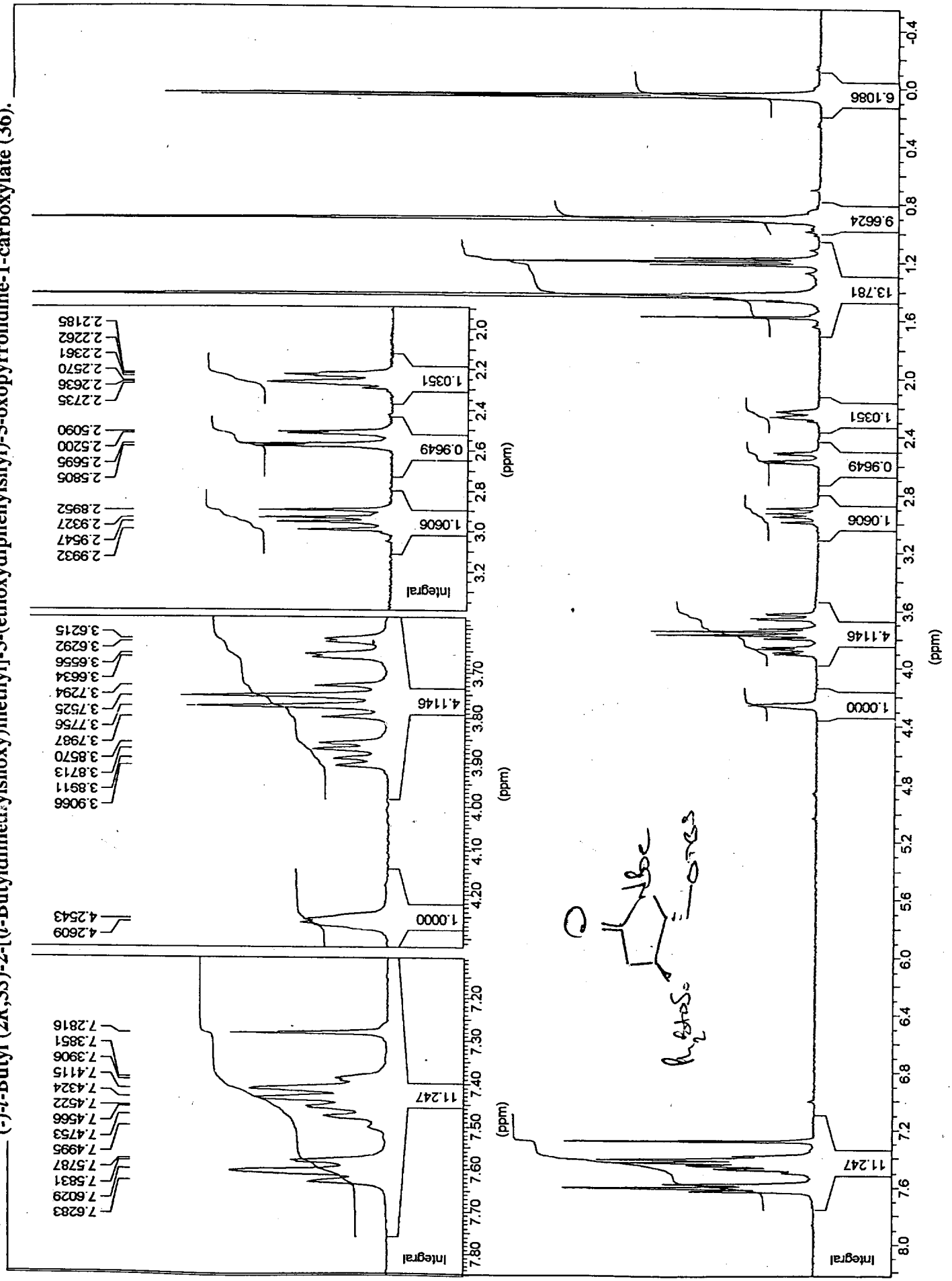
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(ethoxydiphenylsilyl)-5-oxopyrrolidine-1-carboxylate (36).



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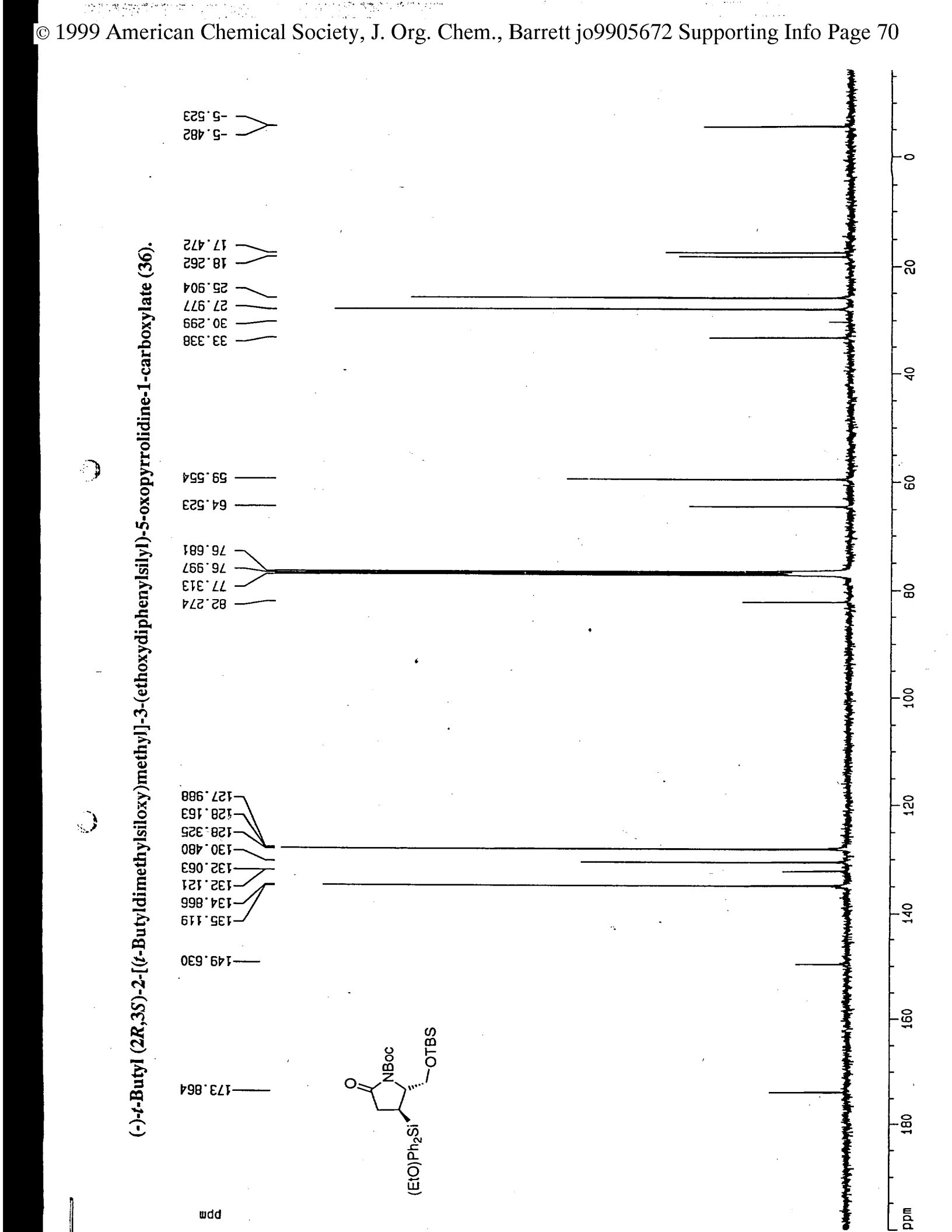
(-)-*t*-Butyl (2*R*,3*S*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3-(ethoxydiphenylsilyl)-5-oxopyrrolidine-1-carboxylate (36).



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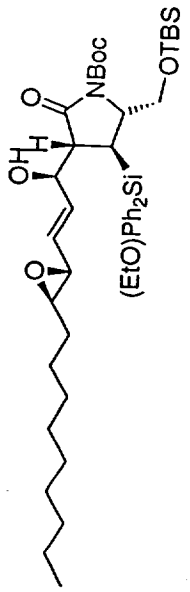
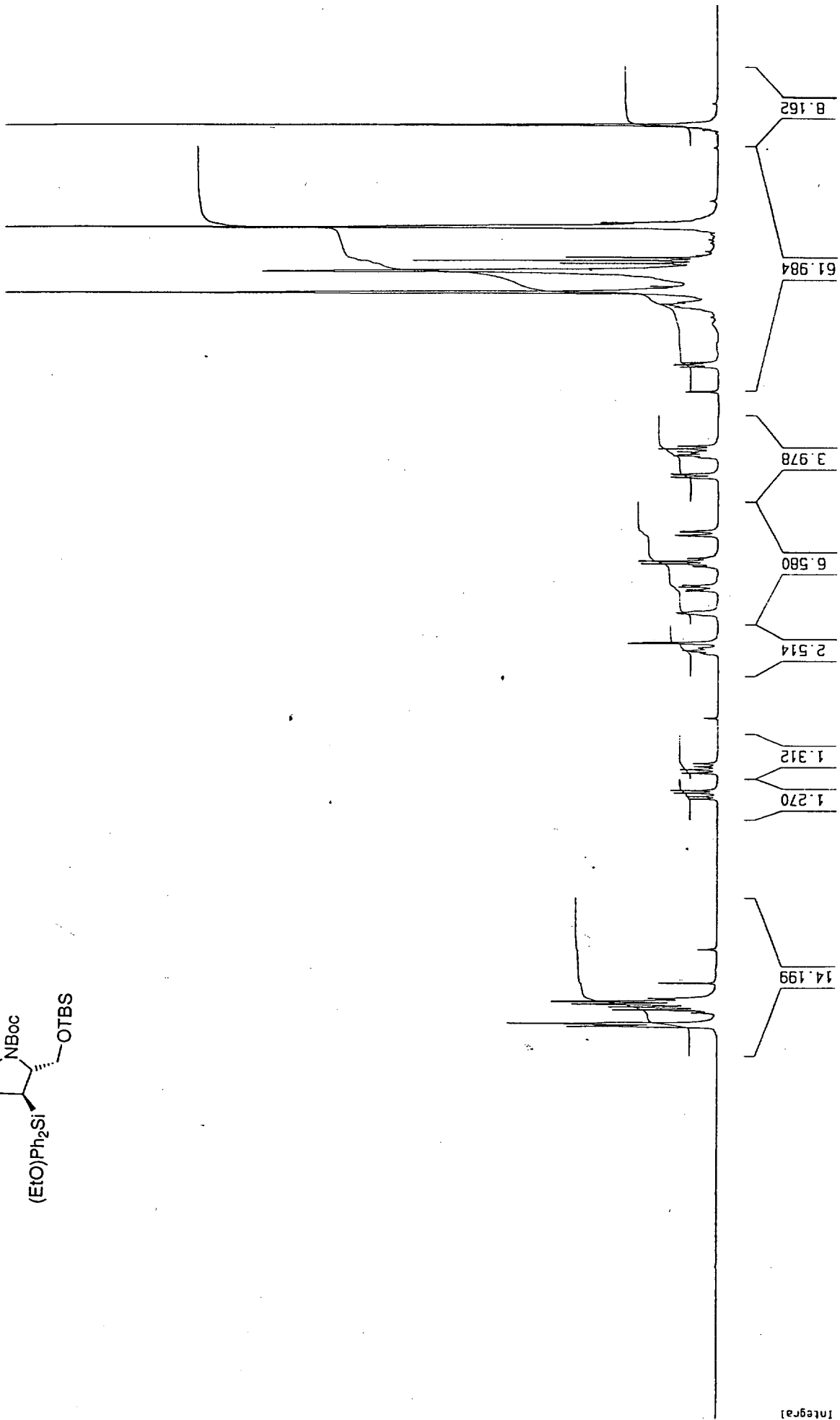
***t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxytetradec-1*R*-hydroxy-2-en-1-yl]-3-(ethoxydiphenylsilyl)-5-oxopyrrolidine-1-carboxylate (37a).**





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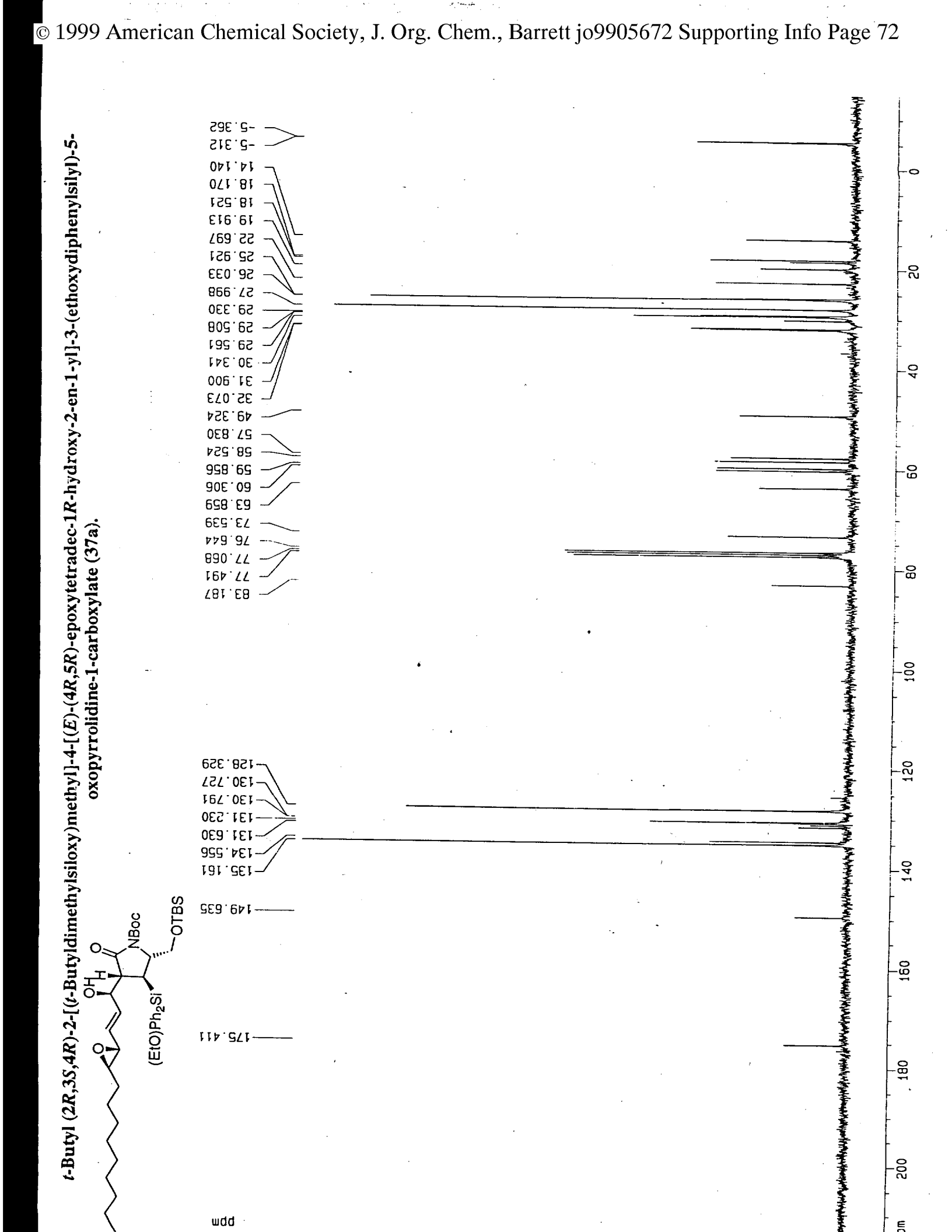
***t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxytetradec-1*R*-hydroxy-2-en-1-yl]-3-(ethoxydiphenylsilyl)-5-oxopyrrolidine-1-carboxylate (37a).**



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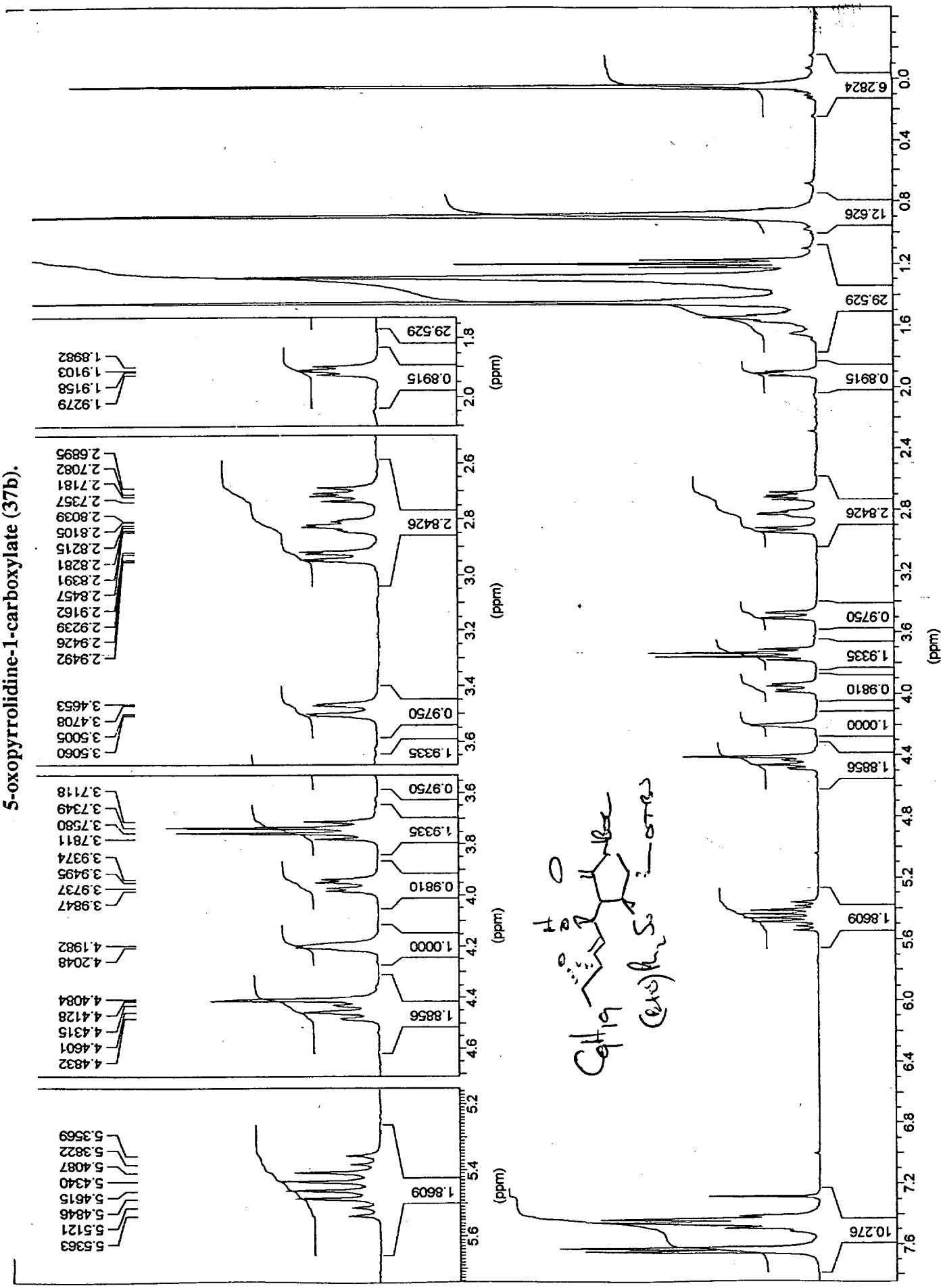
(-)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*S*,5*S*)-epoxytetradec-1*R*-hydroxy-2-en-1-yl]-3-(ethoxydiphenylsilyl)-5-oxopyrrolidine-1-carboxylate (37b).



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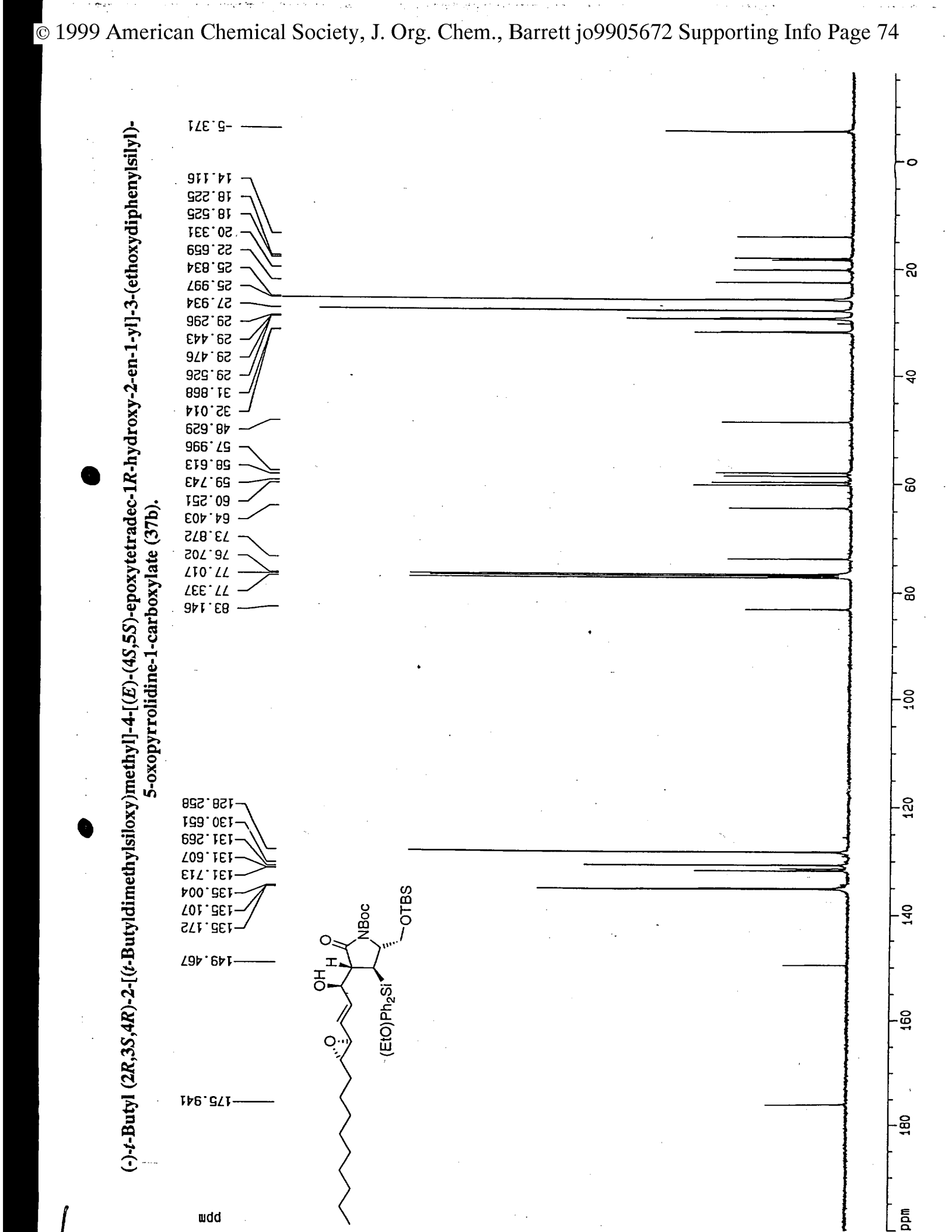
(-)-*t*-Butyl (2*R*,3*S*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*S*,5*S*)-epoxytetradec-1*R*-hydroxy-2-en-1-yl]-3-(ethoxydiphenylsilyl)-5-oxopyrrolidine-1-carboxylate (37b).



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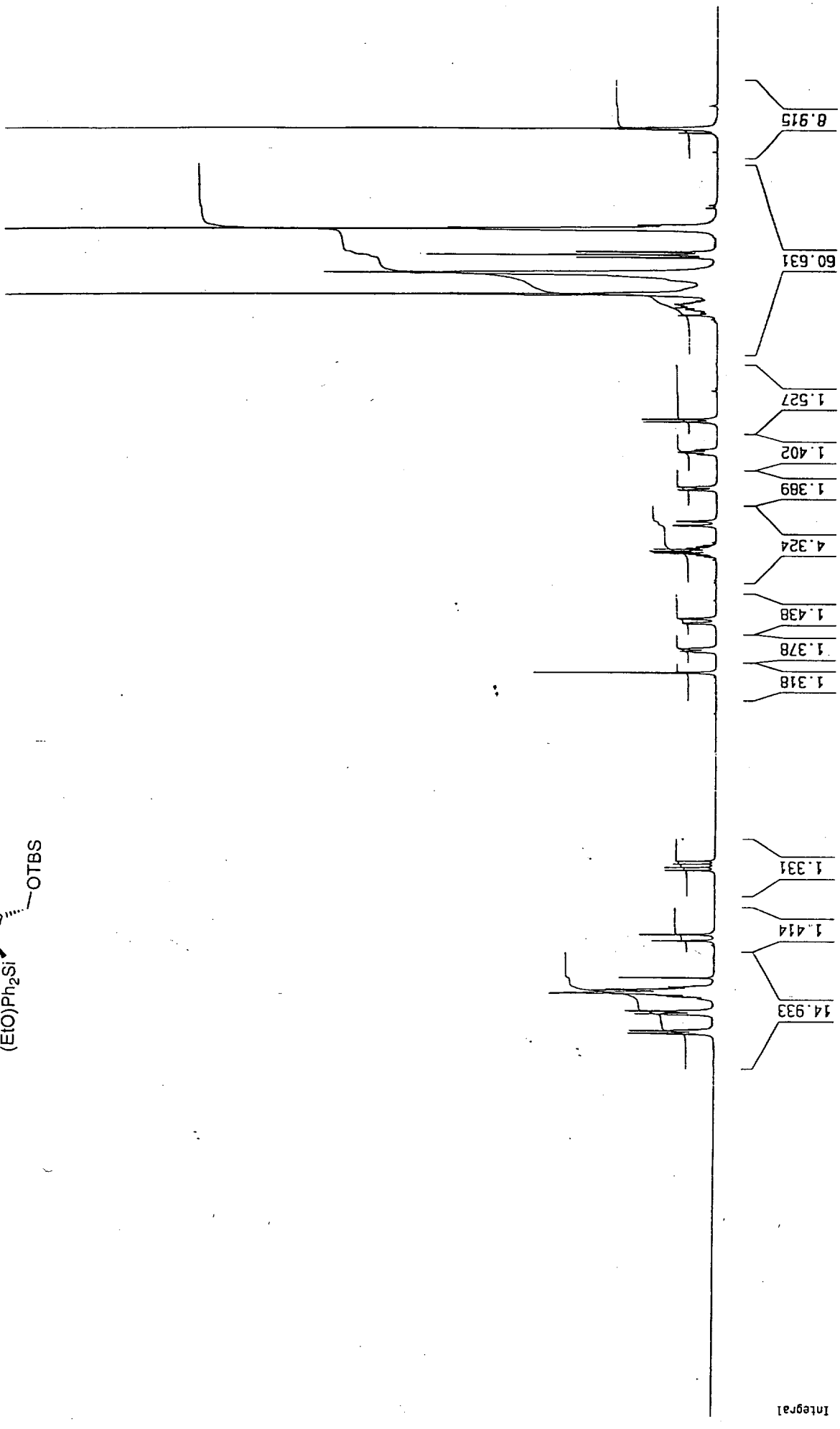
(-)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxotetradec-2-en-1-yl]-3-(ethoxydiphenylsilyl)-4-hydroxy-5-oxopyrrolidine-1-carboxylate (38a).



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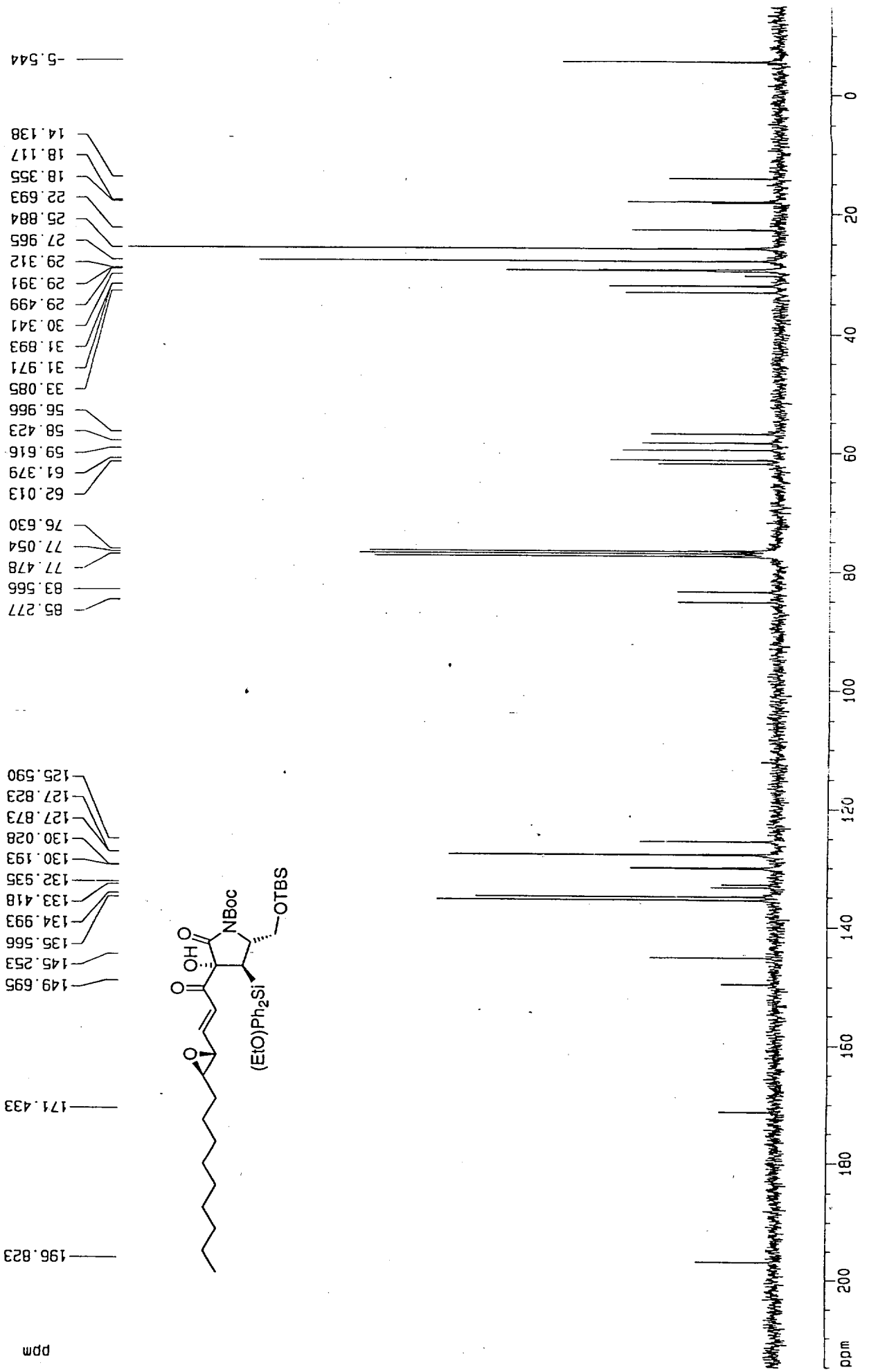
(-)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxotetradec-2-en-1-yl]-3-(ethoxydiphenylsilyl)-4-hydroxy-5-oxopyrrolidine-1-carboxylate (38a).



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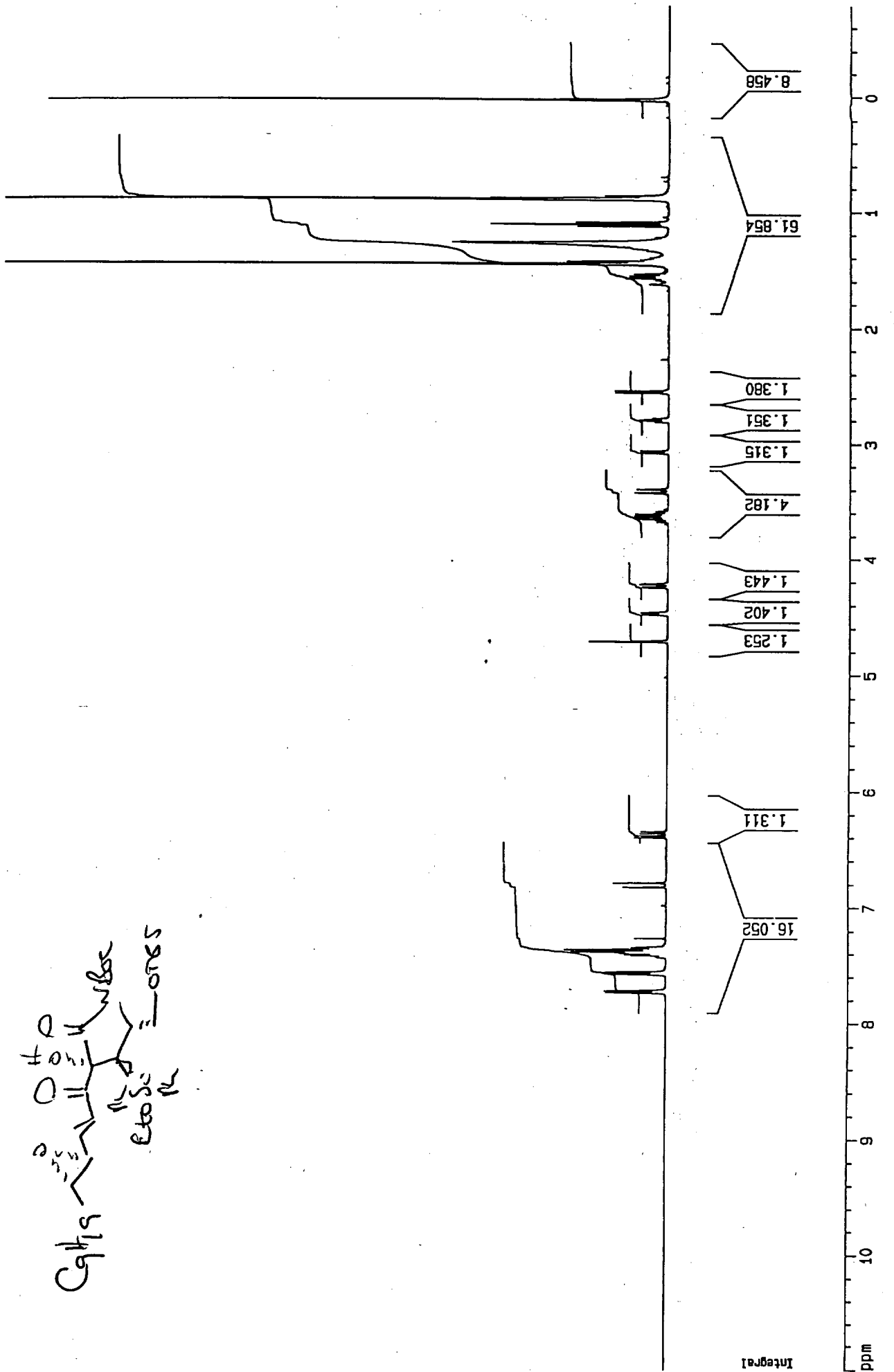
(-)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*S*,5*S*)-epoxy-1-oxotetradec-2-en-1-yl]-3-(ethoxydiphenylsilyl)-4-hydroxy-5-oxopyrrolidine-1-carboxylate (38b).



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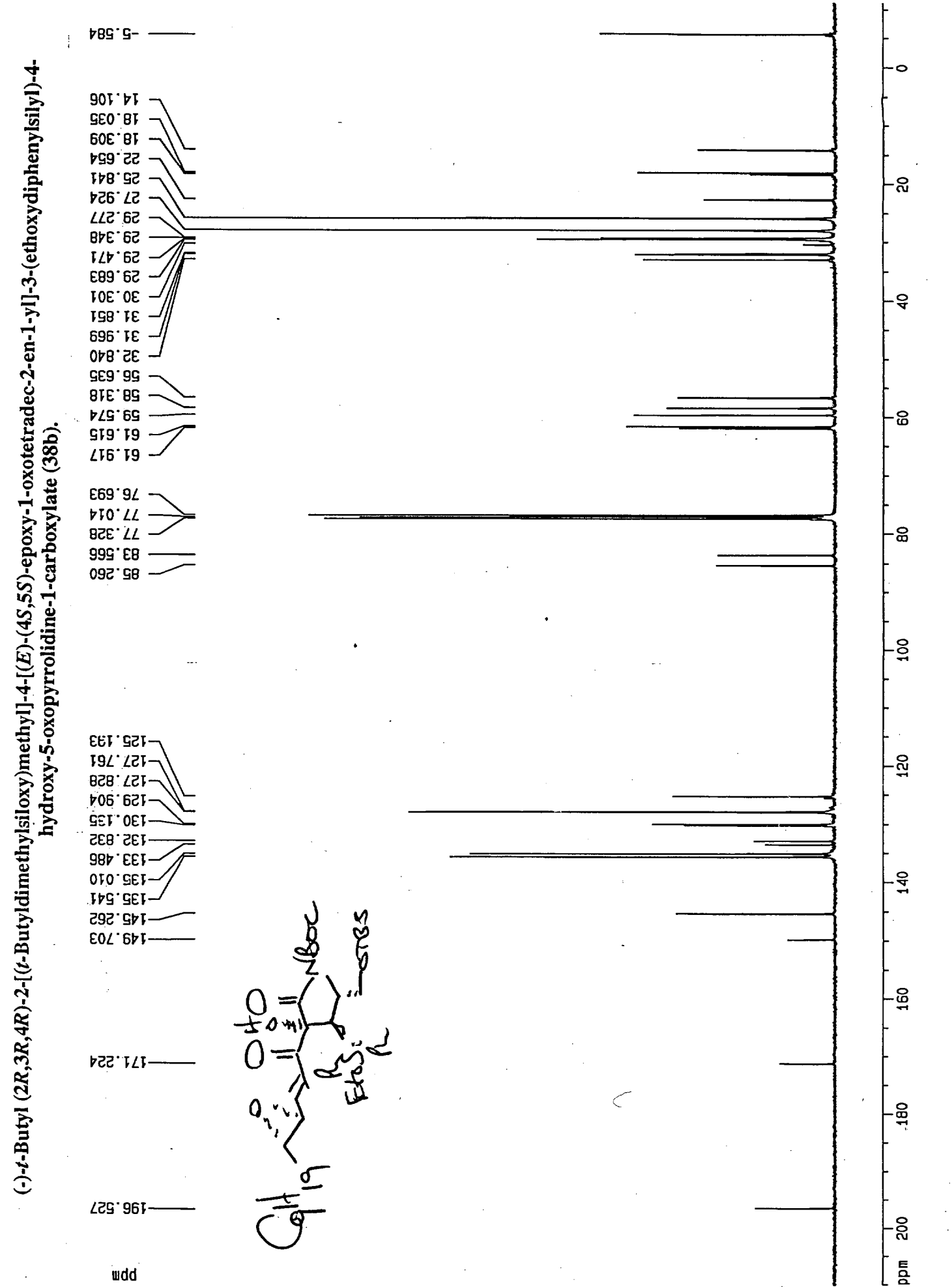
(-)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-4-[(*E*)-(4*S*,5*S*)-epoxy-1-oxotetradec-2-en-1-yl]-3-(ethoxydiphenylsilyl)-4-hydroxy-5-oxopyrrolidine-1-carboxylate (38b).



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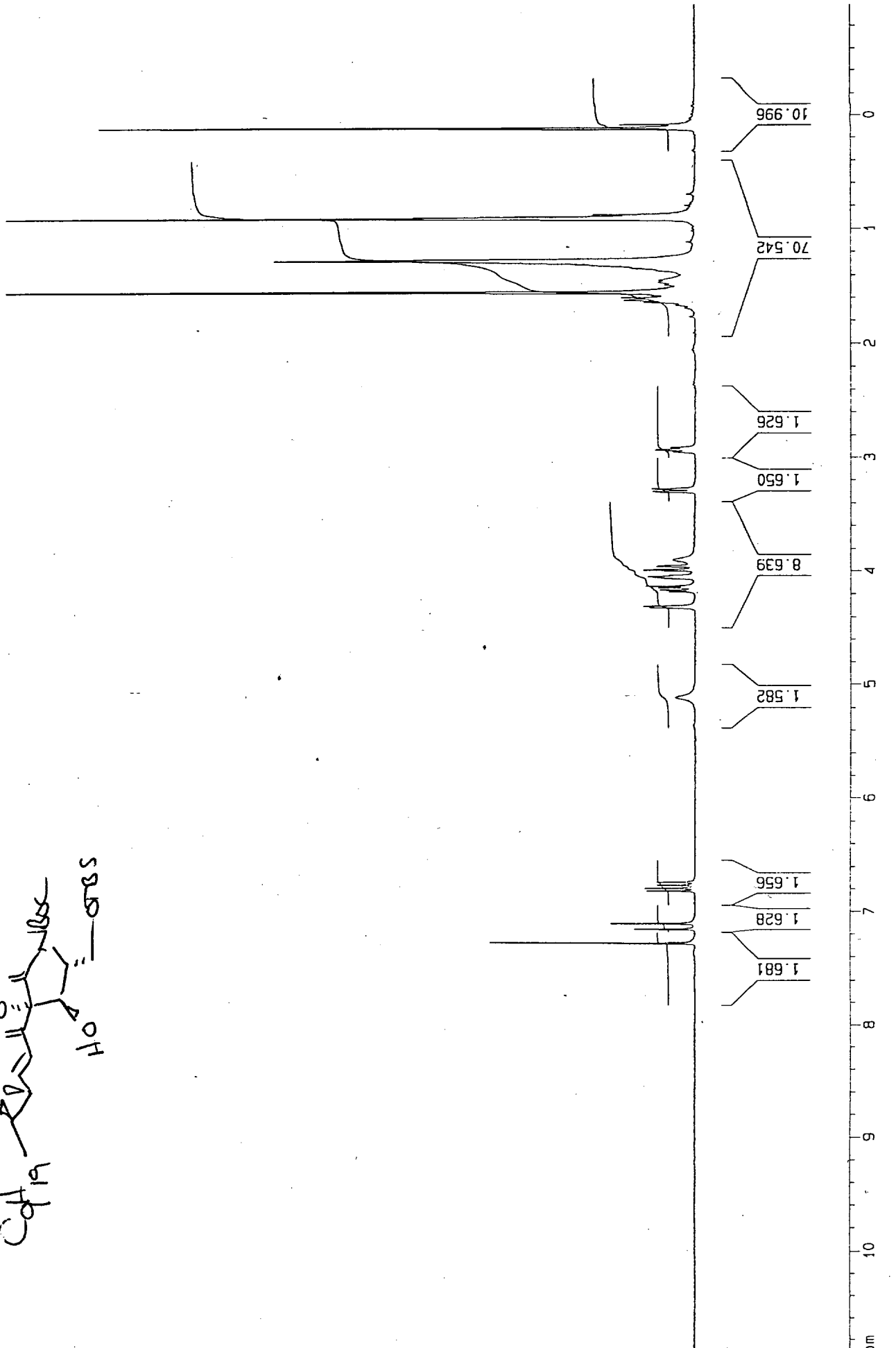
(-)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3,4-dihydroxy-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxotetradec-2-en-1-yl]-5-oxopyrrolidine-1-carboxylate (39a).



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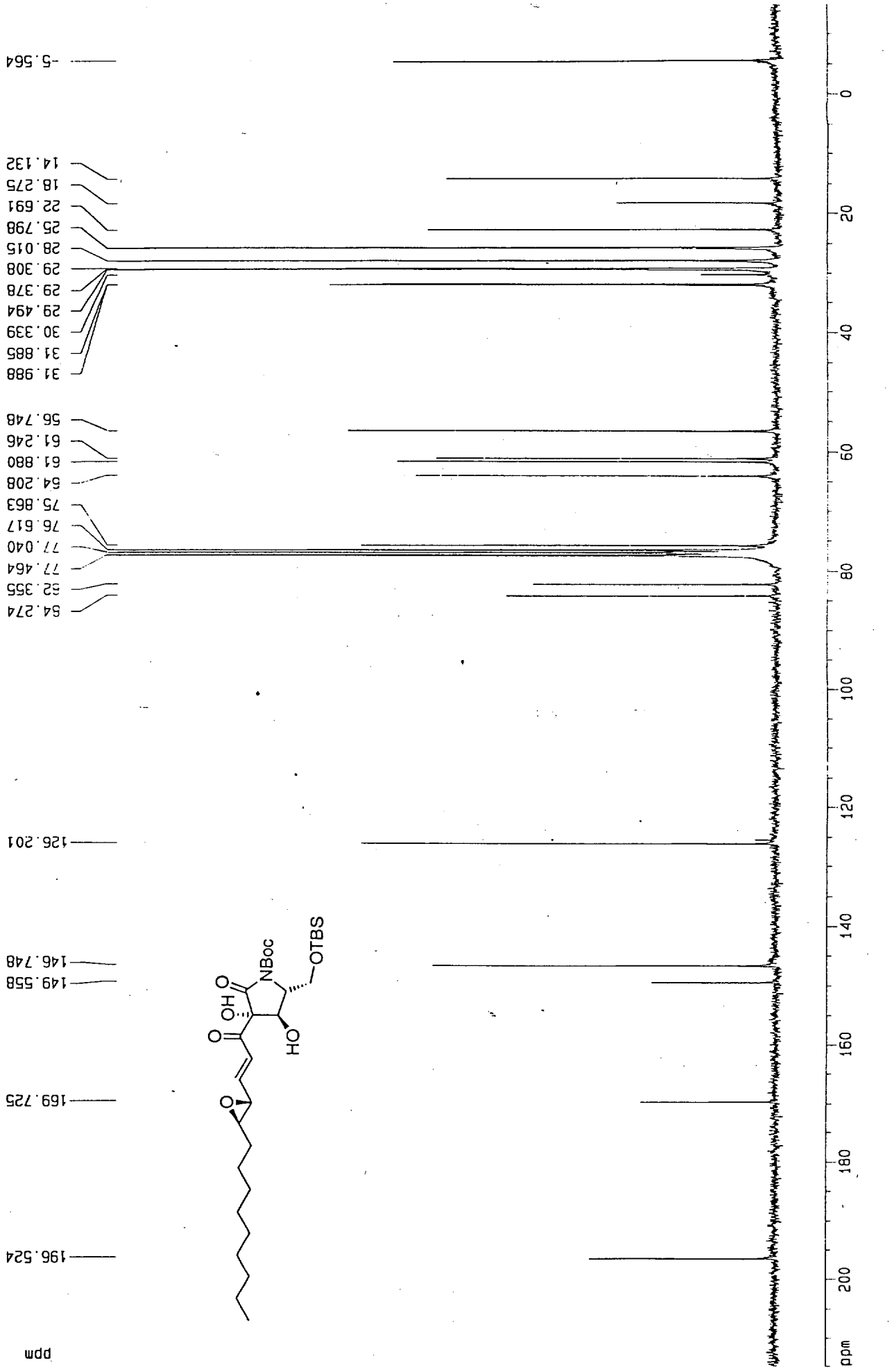
(-)-*t*-Butyl (2*R*,3*R*,4*R*)-2-[(*t*-Butyldimethylsiloxy)methyl]-3,4-dihydroxy-4-[(*E*)-(4*R*,5*R*)-epoxy-1-oxotetradec-2-en-1-yl]-5-oxopyrrolidine-1-carboxylate (39a).