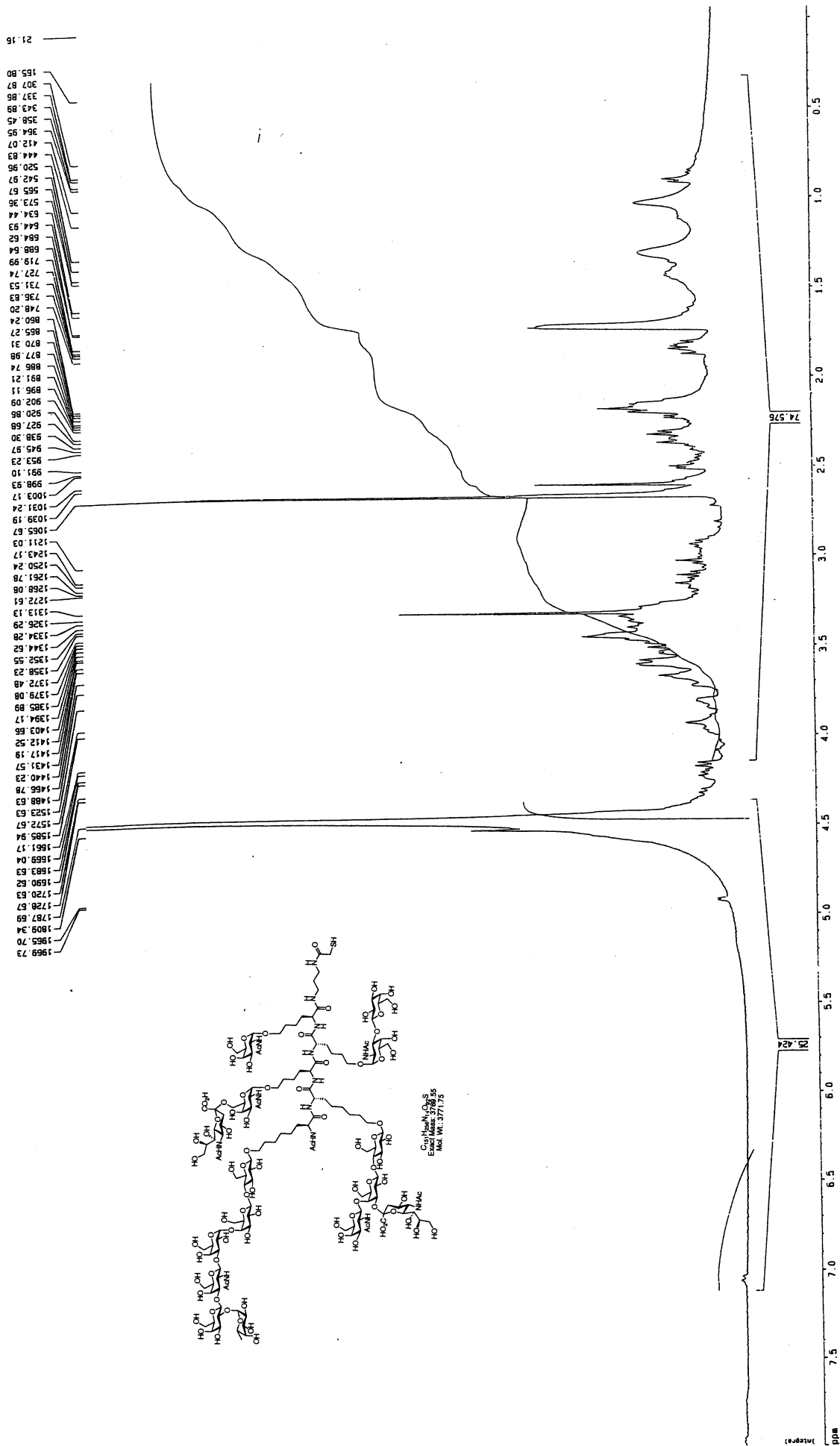
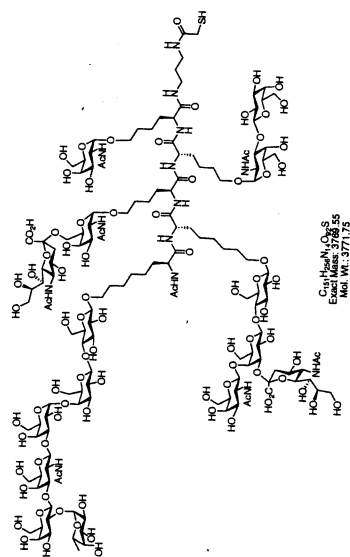
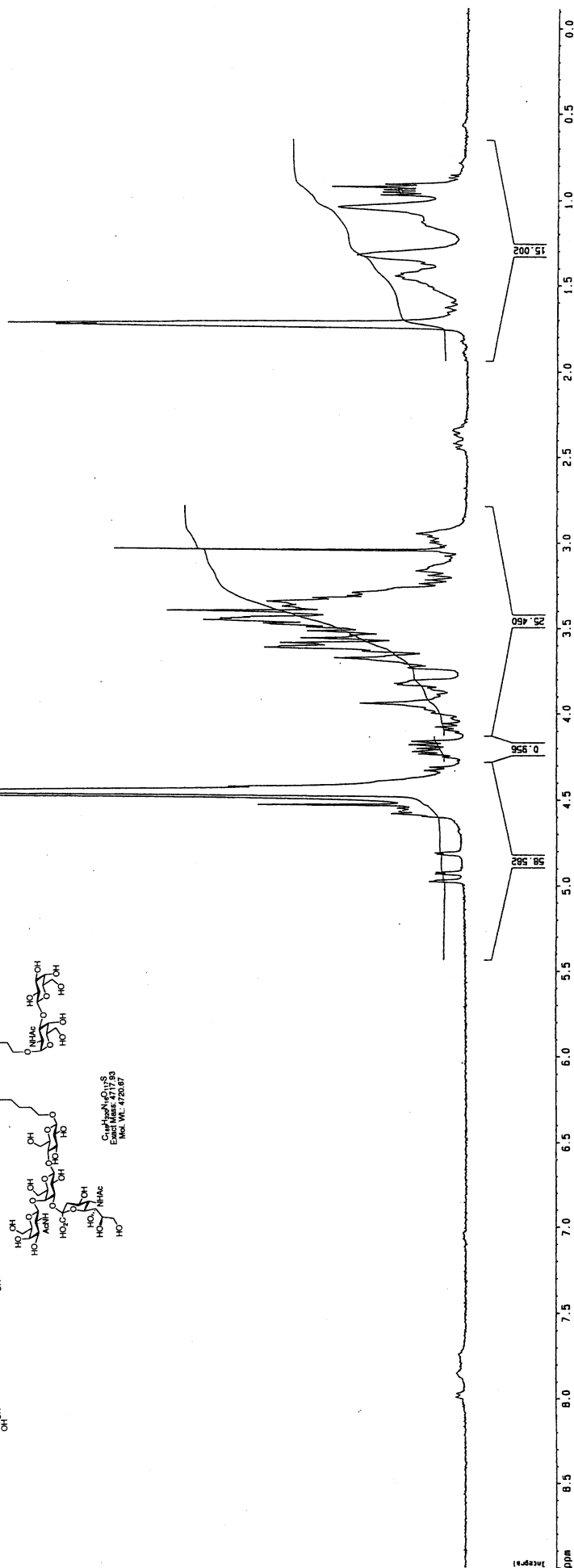
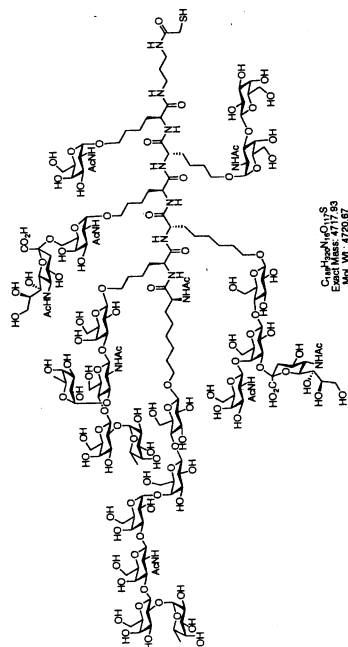


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AcHN-GlobboH-GM2-ST_n-TF-T_n-CONH-(CH₂)₃-NHCOC₂H₅ 12:

[illegible]

AcHN-GloboH-LewisY-GM2-ST_n-TF-T_n-CONH-(CH₂)₃-NHCOCH₂SH 13:

Chemical structure of compound 10 is shown, featuring a complex molecule with multiple acetate (OAc) and Fmoc protecting groups. The structure is labeled with $C_{47}H_{57}N_3O_{13}$, Exact Mass: 2489.0, and Mol. Wt.: 2481.5.

The 1H NMR spectrum displays chemical shifts (ppm) on the x-axis (0.0 to 8.0) and integration values on the y-axis. The spectrum shows a complex pattern of peaks, with major signals labeled at 2.304, 2.591, 3.7945, 5.587, 5.987, and 6.680 ppm.

Chemical shifts (ppm) listed on the left side of the spectrum (from top to bottom):

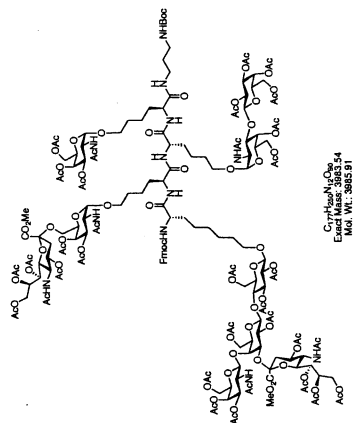
- 2149.58
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- 1960.08
- 1924.67
- 1921.20
- 1899.69
- 1885.36
- 1843.65
- 1841.02
- 1738.36
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- 1723.79
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- 1712.85
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- 1613.67
- 1611.45
- 1608.31
- 1604.14
- 1600.90
- 1596.78
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- 475.86
- 463.18
- 456.04
- 448.83
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- 323.59
- 320.43
- 316.91
- 292.01
- 0.09

Integration values listed on the right side of the spectrum (from top to bottom):

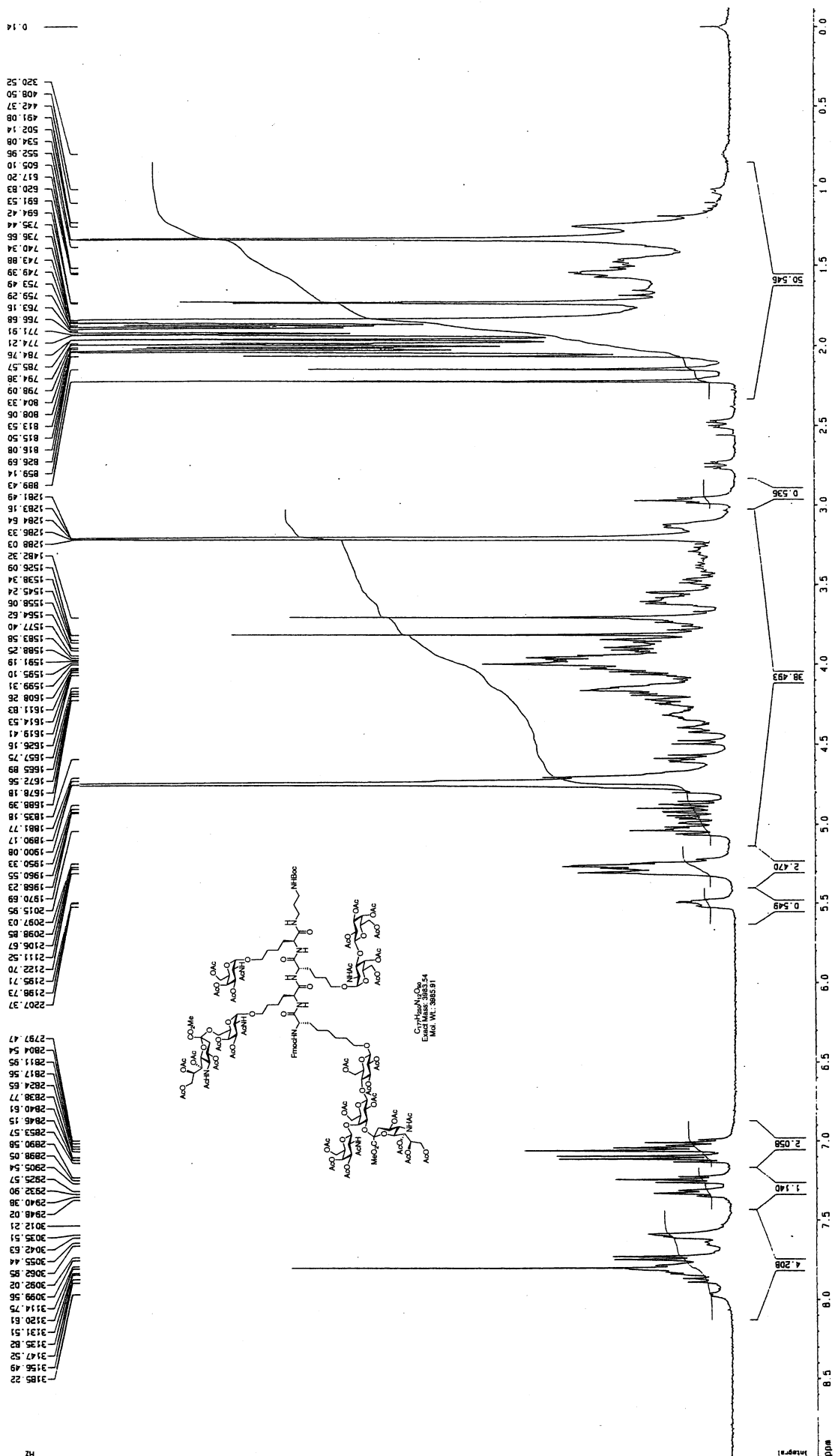
- 0.493
- 55.987
- 0.680
- 37.945
- 2.591
- 2.304

FmocHN-ST_n-TF-T_n-CONH-(CH₂)₃-NHBoc 18:

Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1997	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

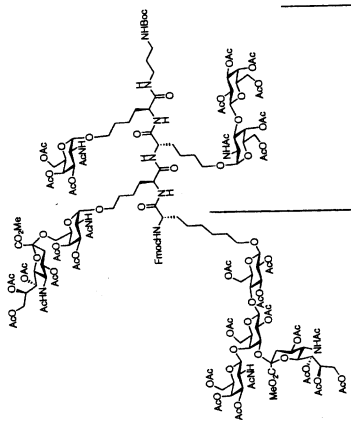
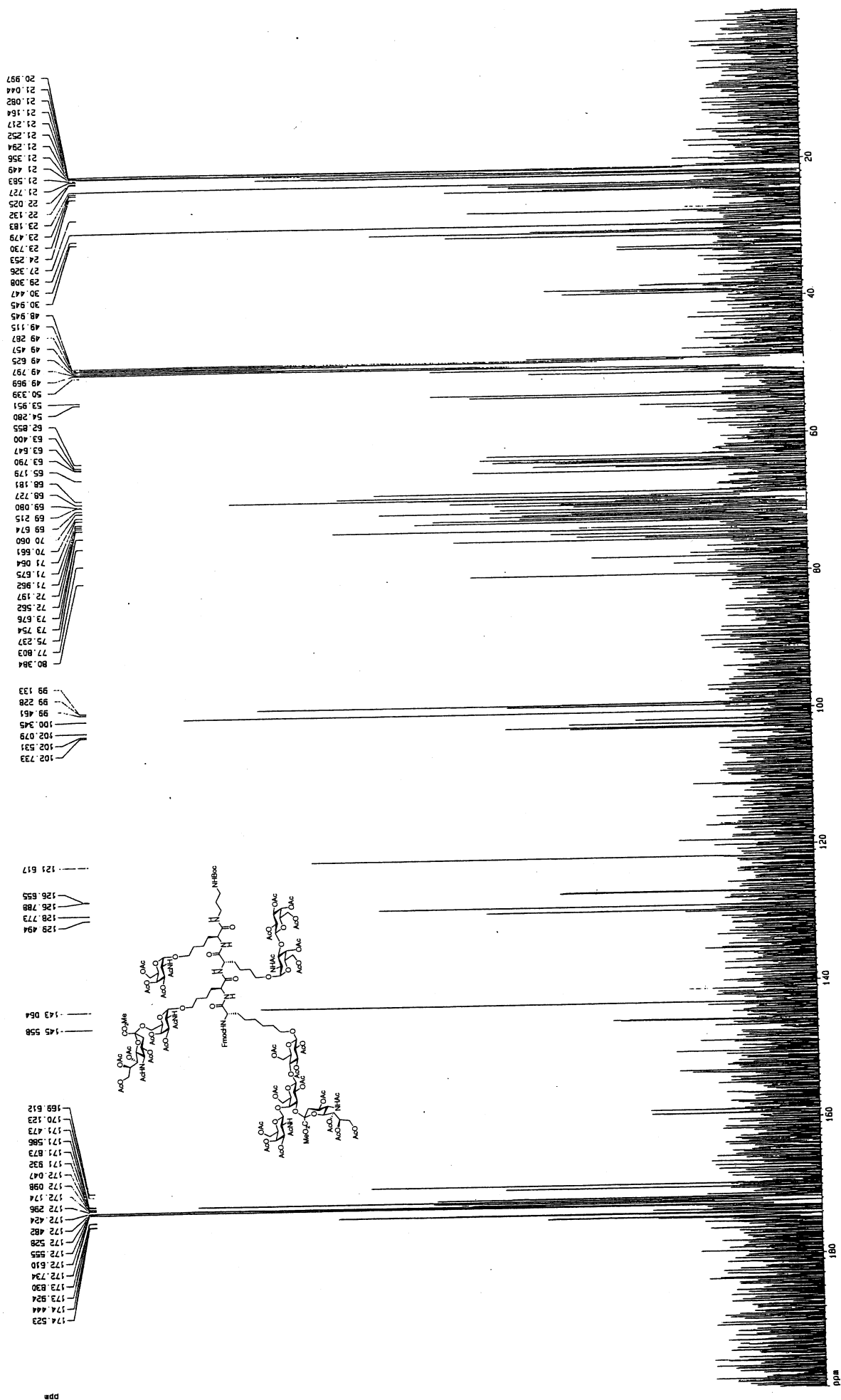


$C_{17}H_{23}O_{50}$
Exact Mass: 3983.54
Mol. Wt.: 3985.91

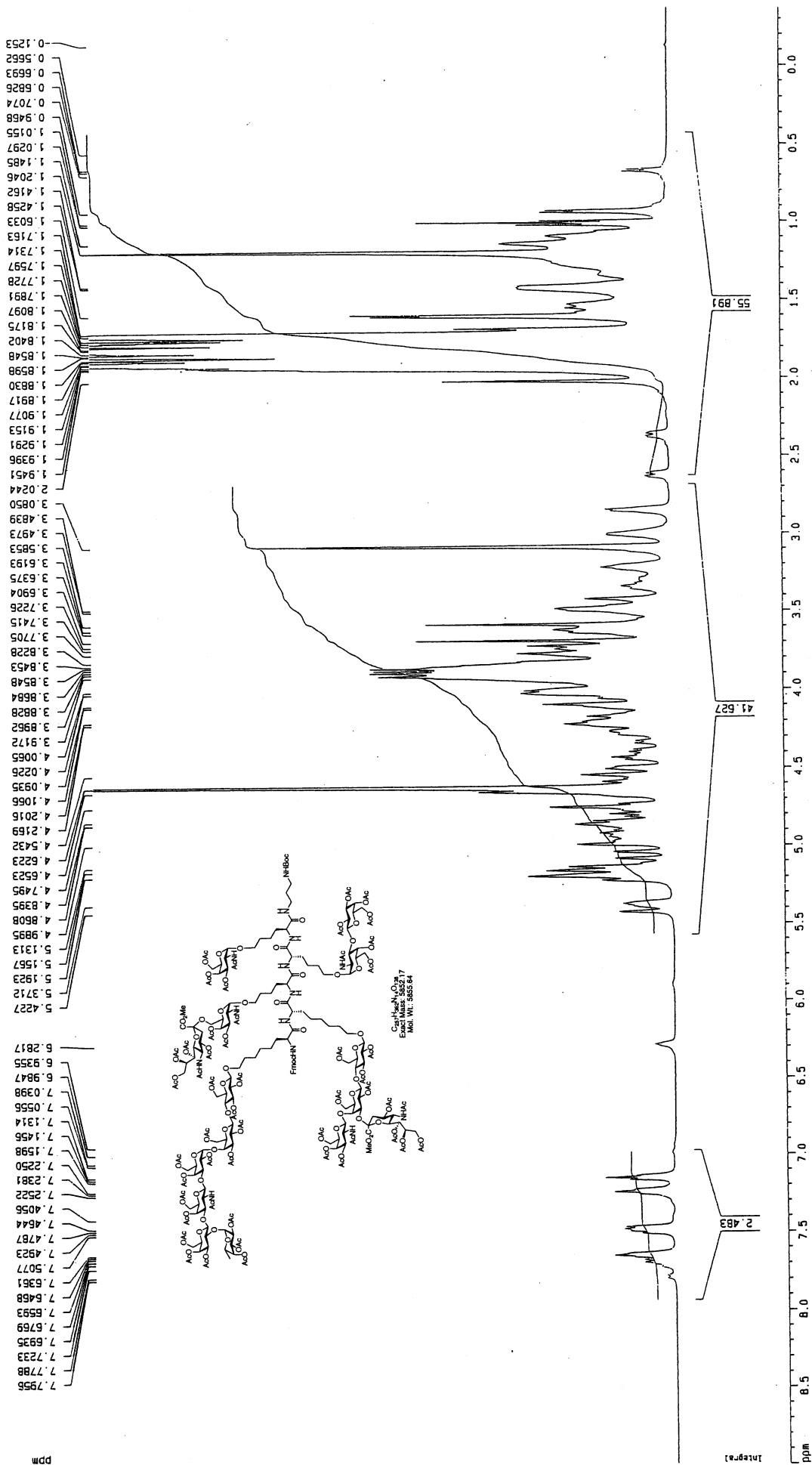


FmocHN-GM2-ST_n-TF-T_n-CONH-(CH₂)₃-NHBoc 19:

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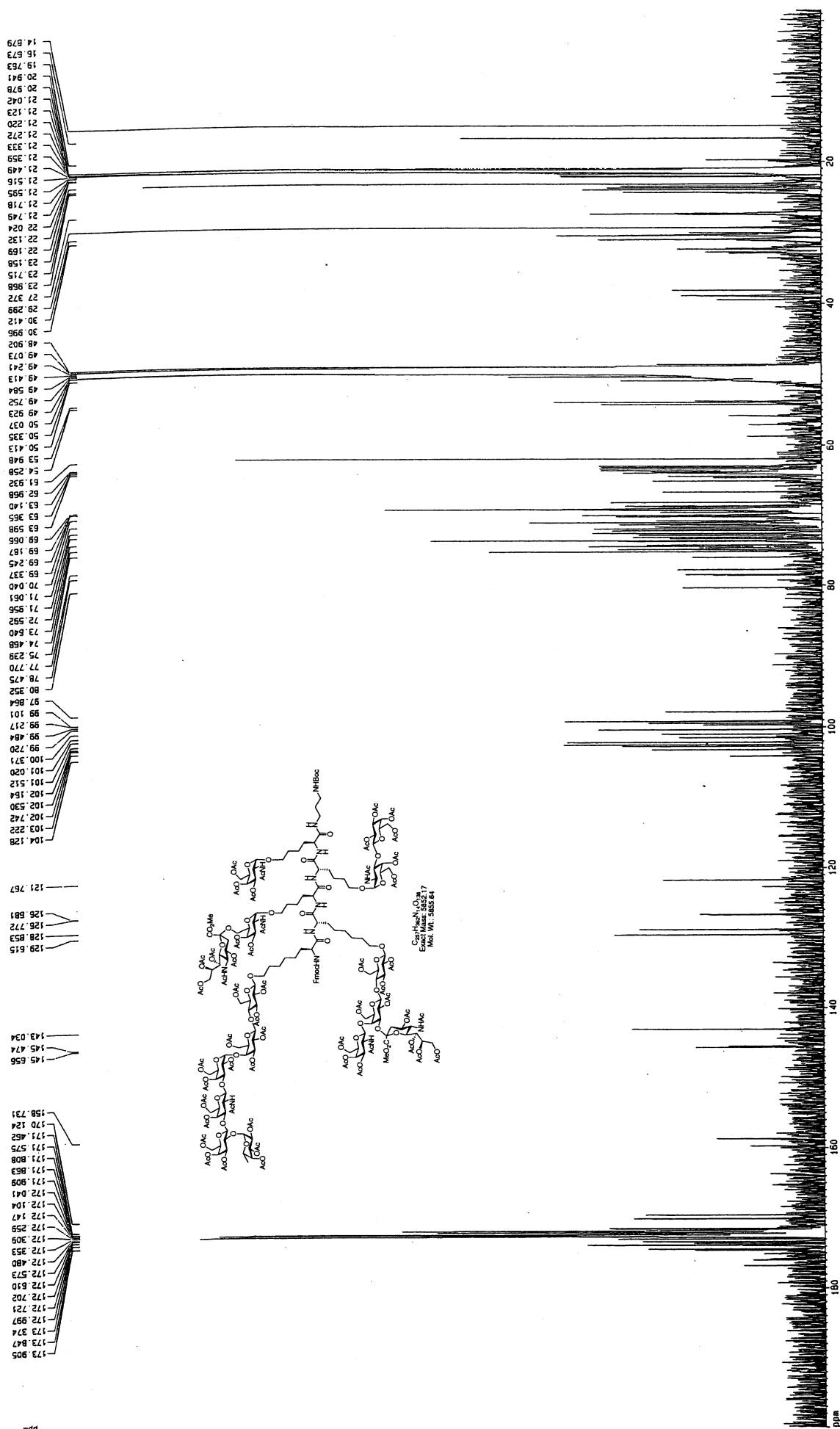


Proton 24 * endo AE-5-111-1H (1 1) MeOH 24.0C May_14, 2005_16: 16 DRX 500MHZ zg30 1H *



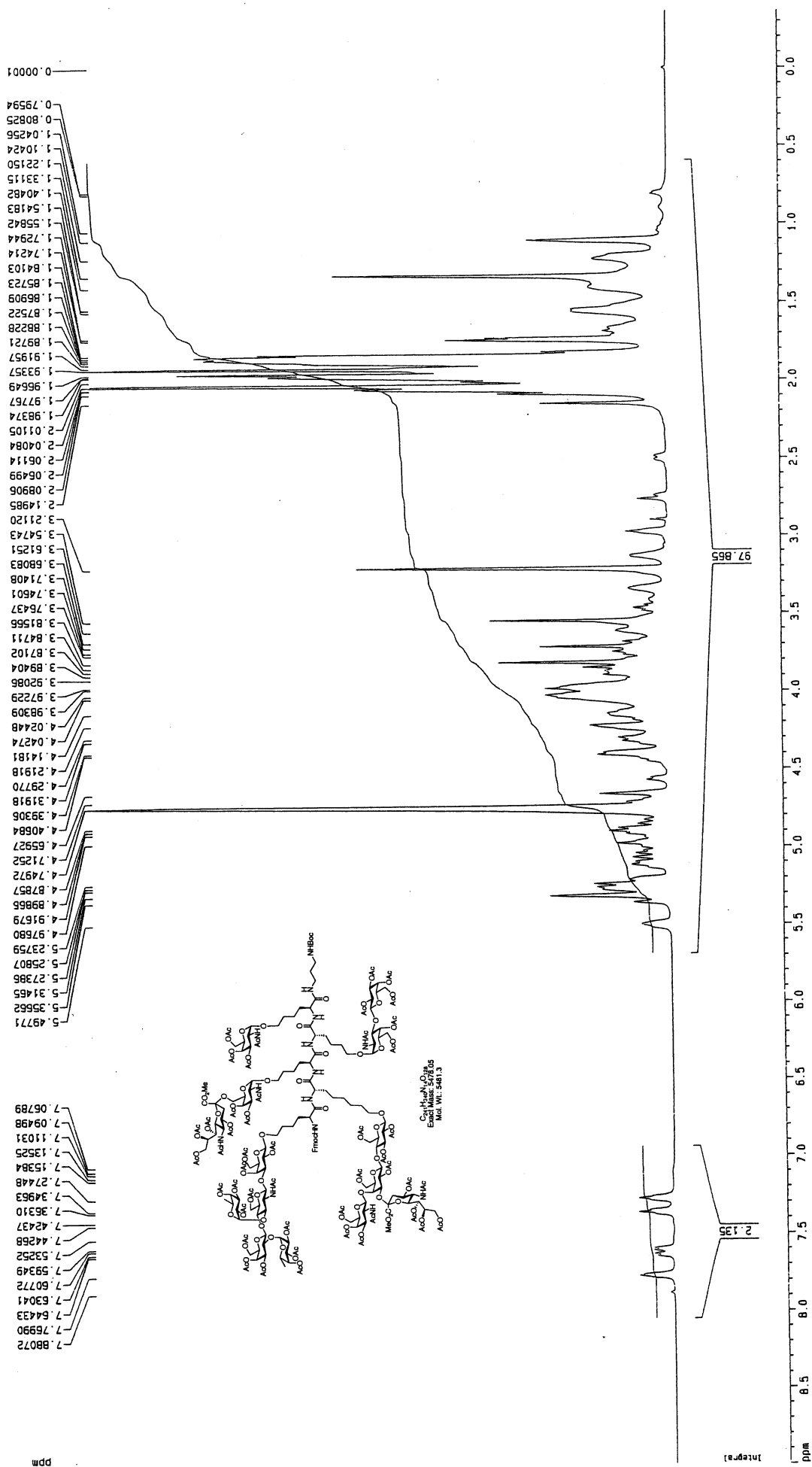
FmocHN-GloboH-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc 20

* endo AE-5-111-13C (1 1) MeOH 24.0C May_14_2005_16:29 DRX 500MHz zgpg30 13C: 1H 02=4.000 *



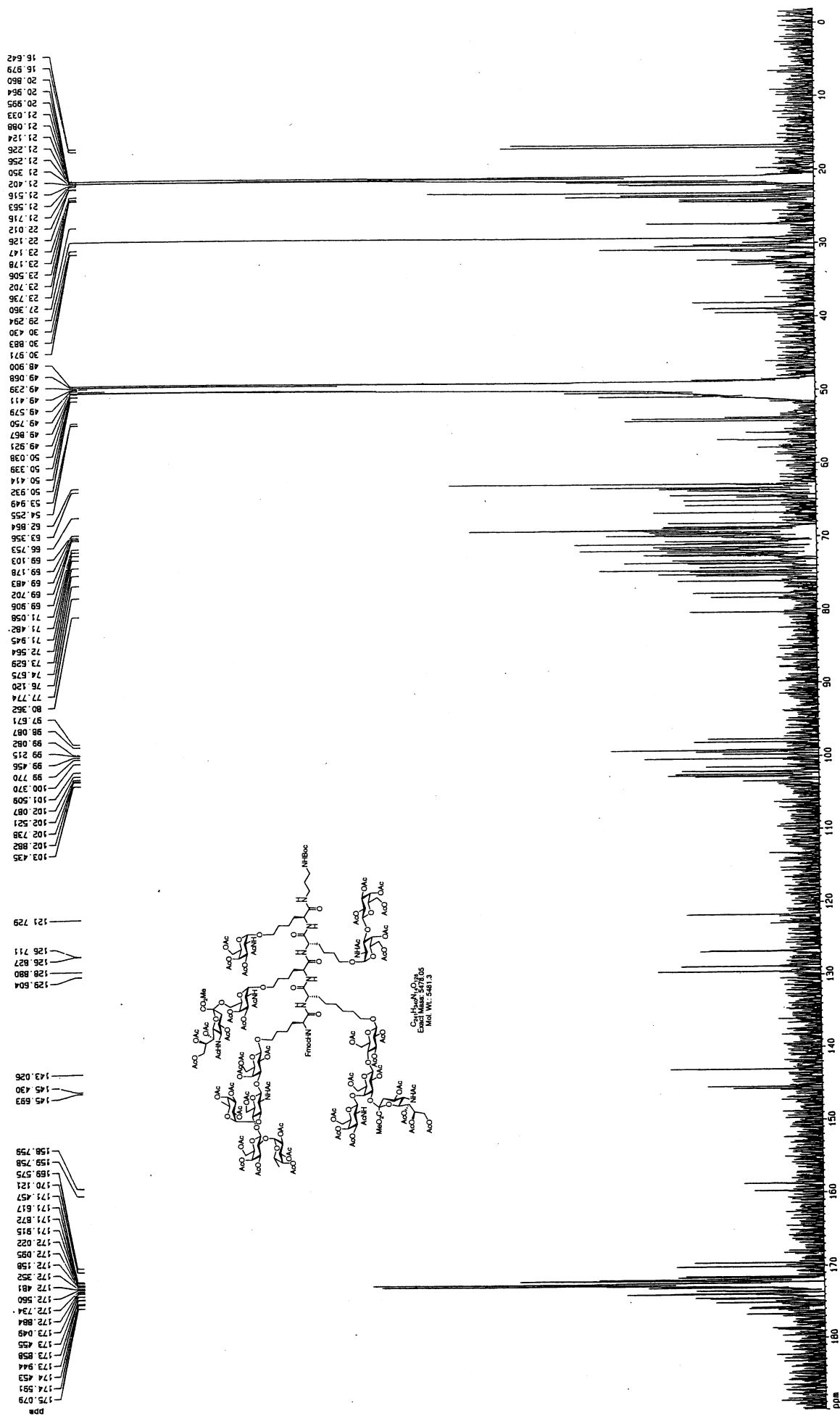
FmocHN-GloboH-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc 20

Proton 24 * endo AE-5-116-1H (1 1) CDC13 24.0C May_14_2005_16:05 DRX 500MHz zg30 1H *



FmocHN-Lewis^y-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc 21

* endo AE-5-116-13C (1 1) MeOH 24.0C May_14_2005_03:20 DAX 500MHz zgpg30 13C; 1H Q2=4.000 *



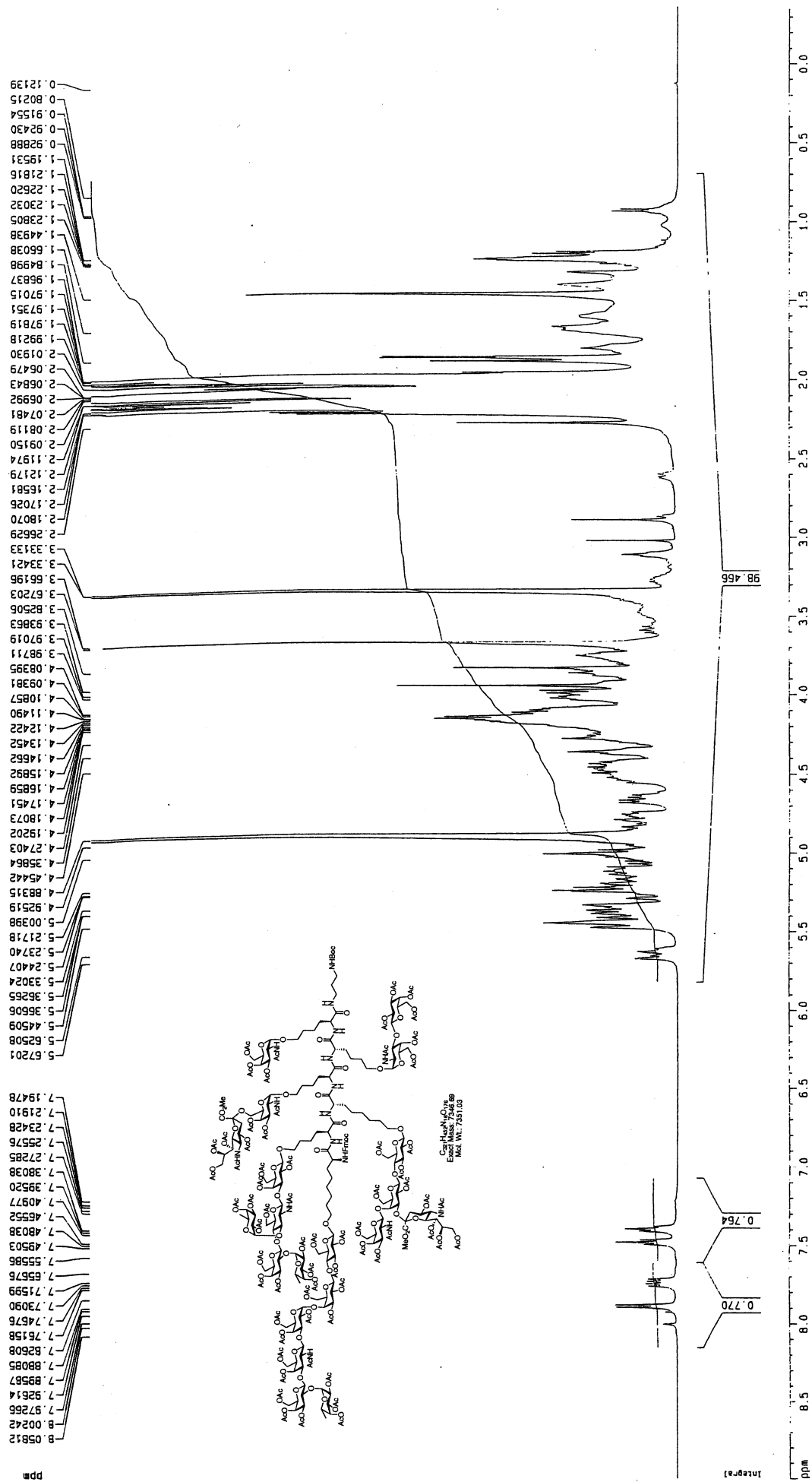
FmocHN-Lewis^x-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc 21

Proton 24

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* endo AE-5-119-1H (1 1) CDC13
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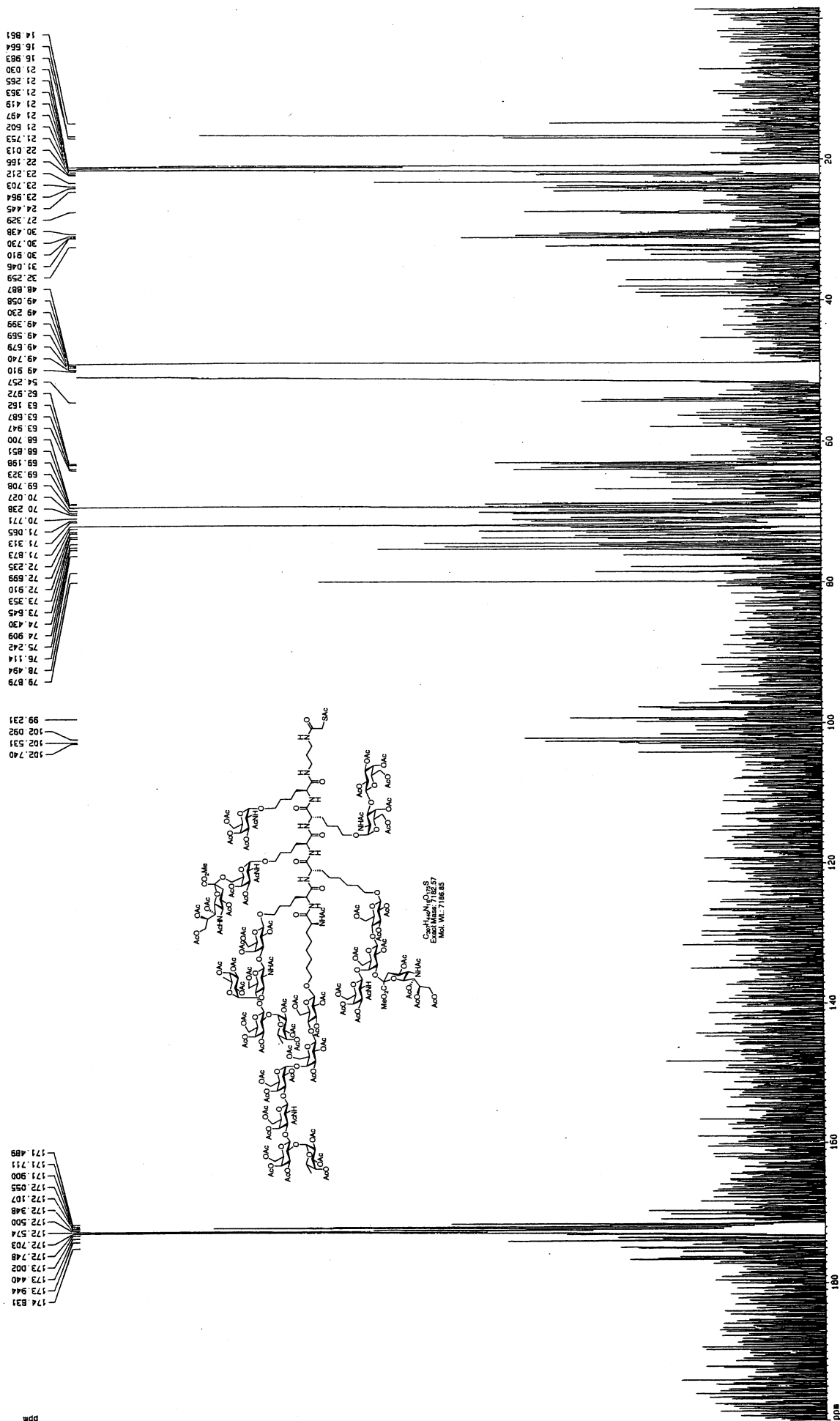
24.0C May_18, 2005_09:53 DAX 500MHZ z930 1H

*



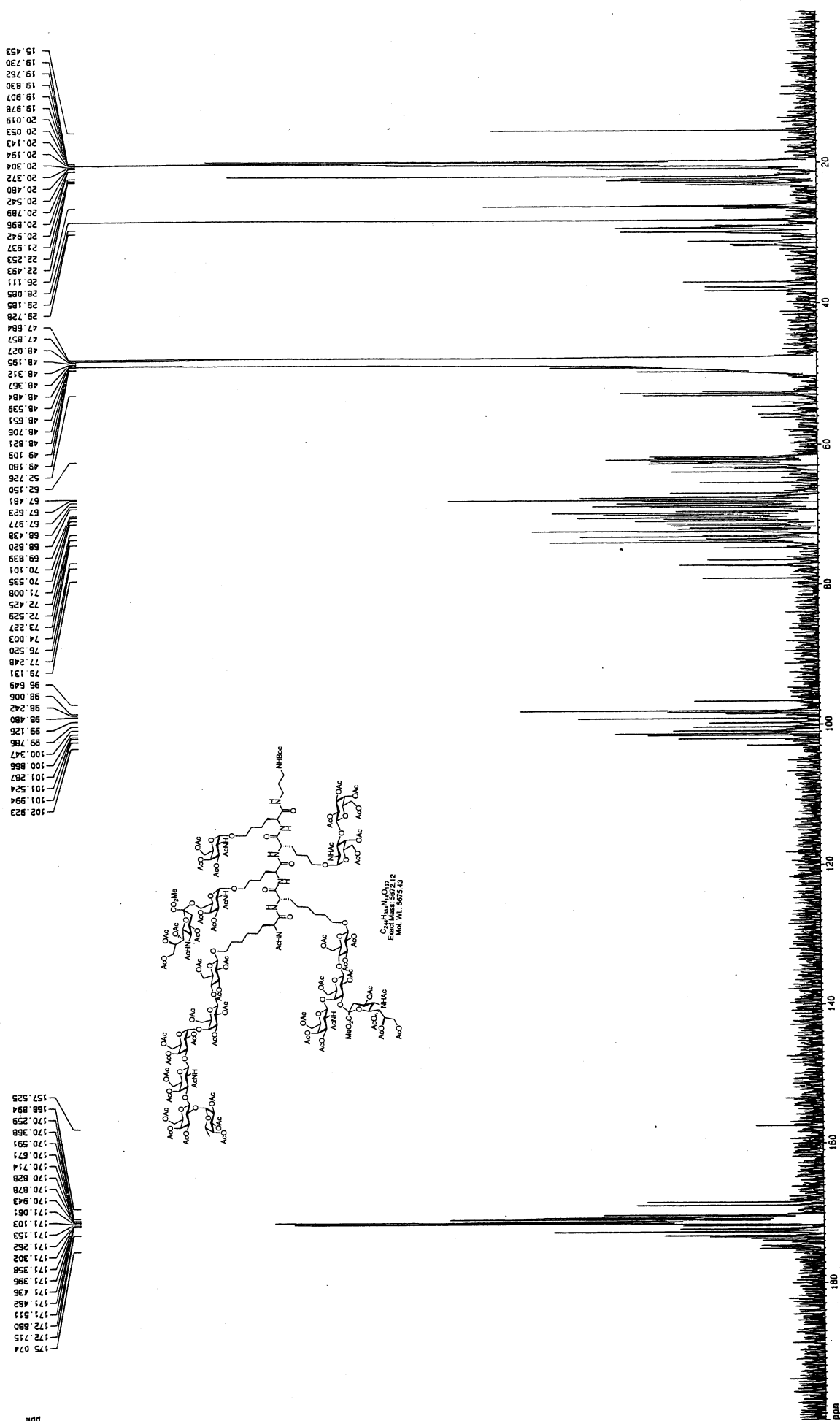
FmocHN-GloboH-Lewis^y-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc 22:

* endo AE-5-127-13C (1 1) MeOH 24.0C May_28, 2005_12: 20 DRX 500MHz zgpg30 13C: 1H 02=4.000 *



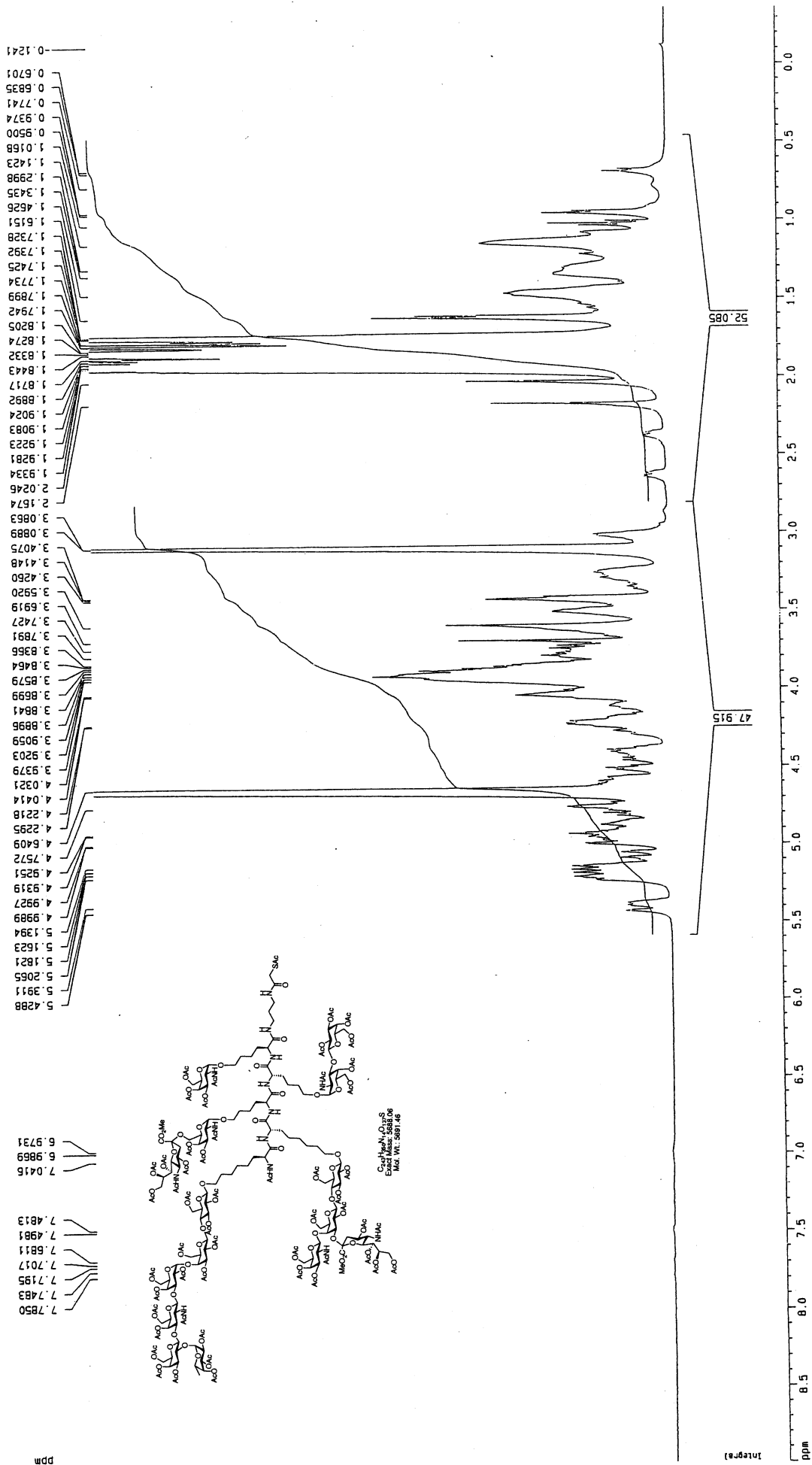
AcHN-GloboH-Lewis^x-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHCOCH₂SAC

* end0 AE-5-113-13C (1 1) MeOH 24.0C May_15_2005_00:46 DRX 500MHz zgpg30 13C; 1H Q2=4.000 *



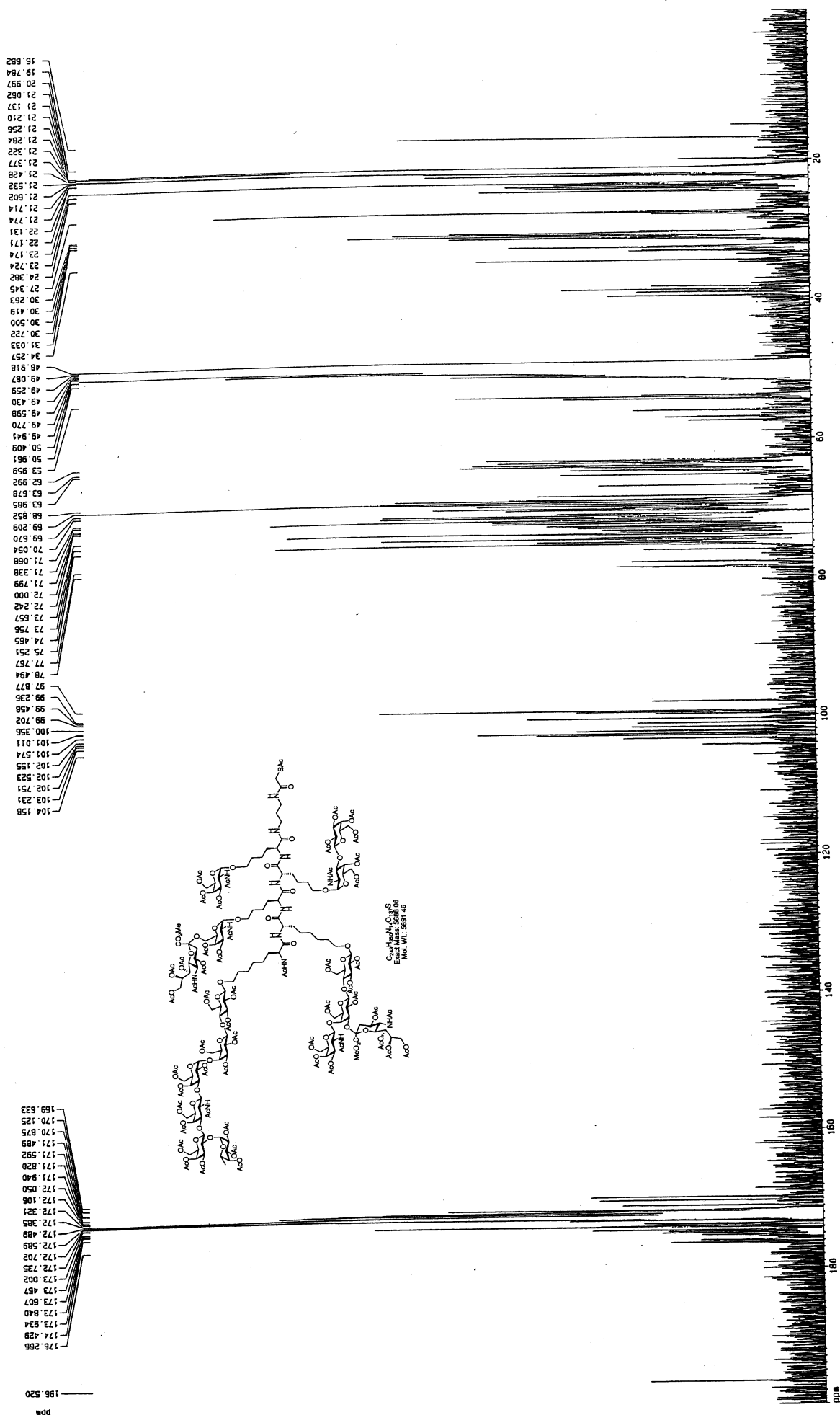
AcHN -GloboH-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc

Proton 24 * endo AE-5-121-1H (1 t) MeOH 24.0C May_23_2005_18:04 DRX 500MHZ zg30 1H *



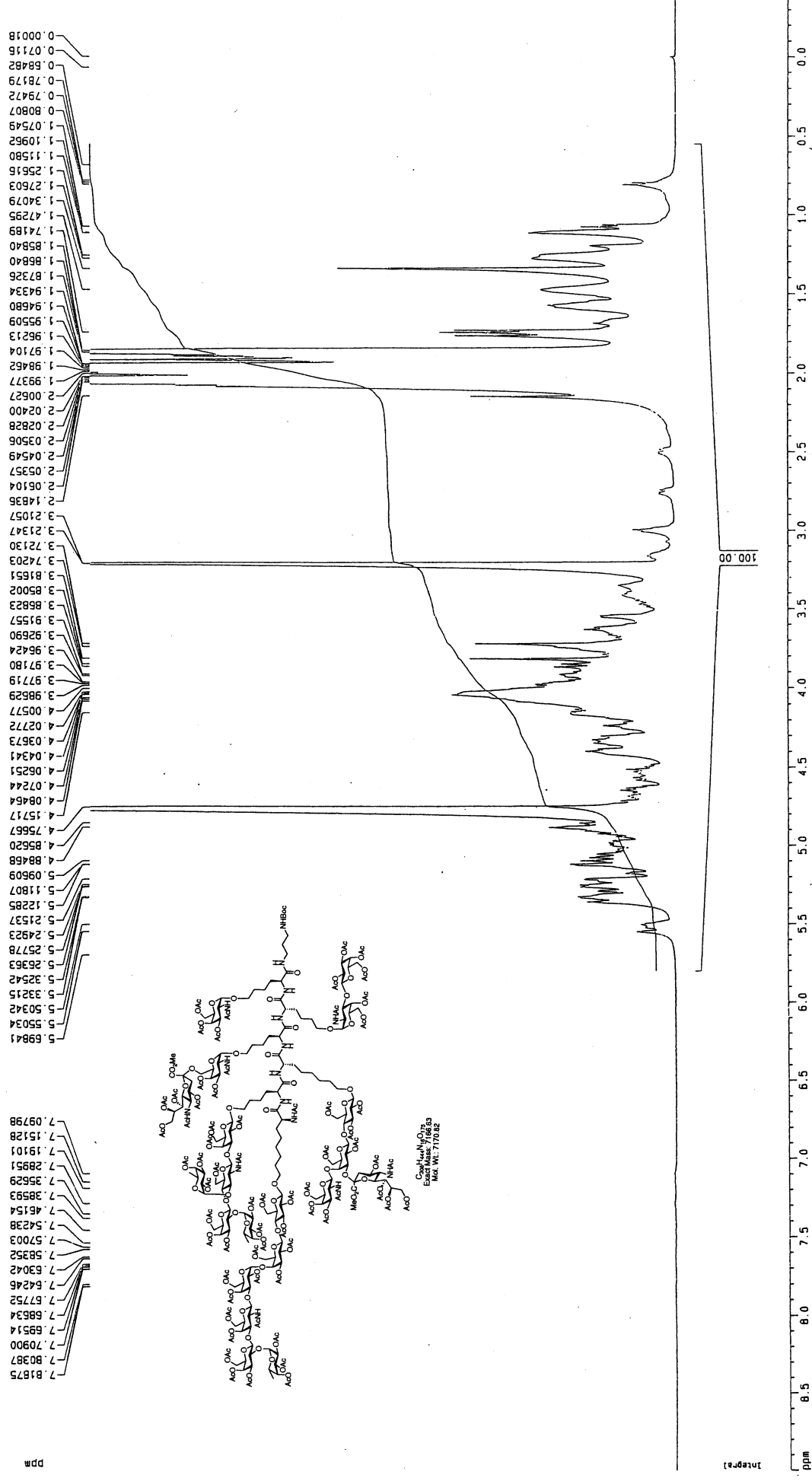
AcHN-GloboH-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHCOCH₂SAC:

* endo AE-5-124-13C (1 1) MeOH 24.0C May_23_2005_01:12 DRX 500MHz zgpg30 13C; 1H 02=4.000 *



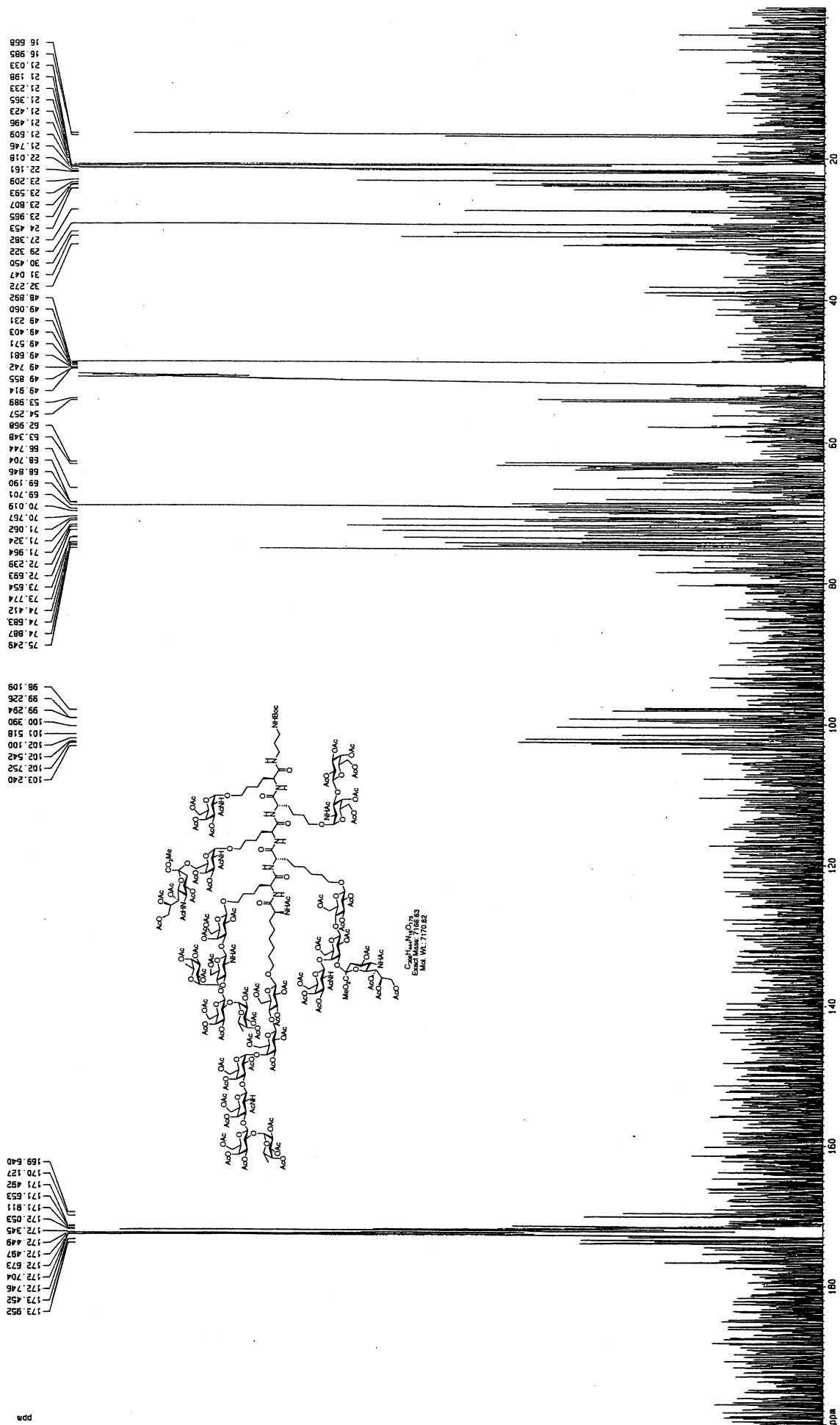
AcHN -GloboH-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHCOCH₂SAc:

Proton 24 * endo AE-5-125-1H (1 1) CDC13 24.0C May_25_2005_08:50 DRX 500MHz zg30 1H *



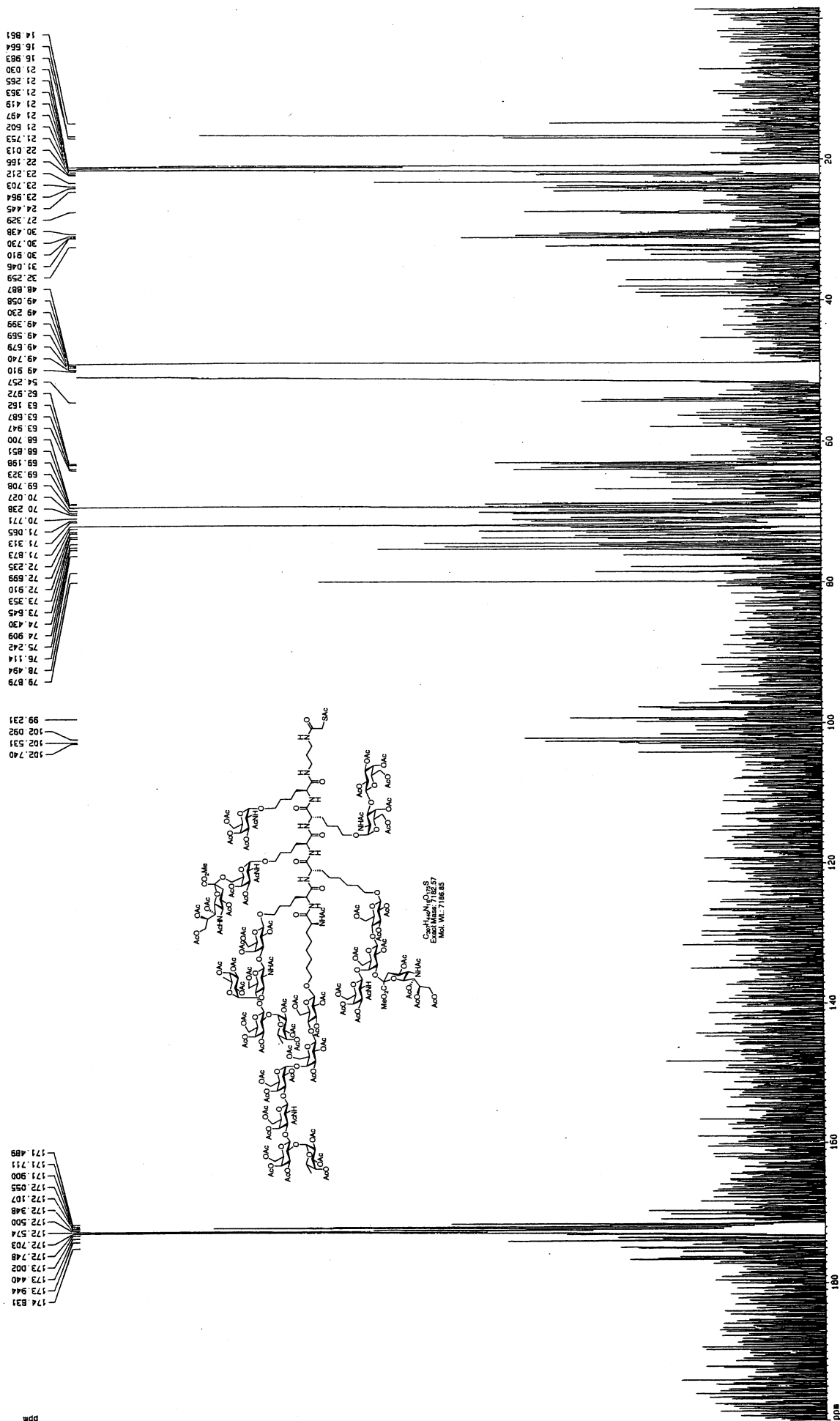
AcHN-GloboH-Lewis^X-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc

* endo AE-5-125-13C (1 1) MeOH 24.0C May_24_2005_15:39 DAX 500MHZ zgpg30 13C; 1H 02=4.000 *



AcHN-GloboH-Lewis^X-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHBoc

* endo AE-5-127-13C (1 1) MeOH 24.0C May_28, 2005_12: 20 DRX 500MHz zgpg30 13C: 1H 02=4.000 *



AcHN-GloboH-Lewis^x-GM2-STn-TF-Tn-CONH-(CH₂)₃-NHCOCH₂SAC